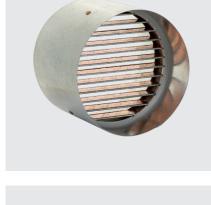


INTUMESCENT FIRE DAMPERS

IFD Series Products









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Kilargo does its utmost to ensure that all technical information and recommendations given in this publication are based on factual research, backed up by a wealth of practical experience. Published data is given in good faith but we urge users to determine for themselves the suitability of the products offered, for their own particular application.

Images are not necessarily to scale, please use measurements given as a guide only. Kilargo reserves the right to alter specifications, or make obsolete any of its products, without prior notice. © Kilargo 2022





At Kilargo, we provide simple and smart solutions to maximise the safety, comfort and performance of commercial and multi-occupancy buildings. Our innovative products are designed to contain the spread of fire, smoke and sound with many also providing weather protection and energy savings. We deliver integrated and cost-effective systems that are ideal for any commercial building, high-rise complex, health or education facility.

Kilargo is built on a 30-year commitment to be the best. We stand proudly at the forefront of the industry, driving standards and delivering products that lead the way in design, manufacturing and quality.

At Kilargo, we're respected experts in the principles of fire, smoke and sound. Our straight-talking approach makes it easy for clients to meet and exceed building regulations, knowing they've chosen the right system to ensure building integrity.

We know that our work can protect lives and influence reputations, so we don't just sell products. We build solid partnerships through understanding, flexibility, seamless service and genuine enthusiasm.

Kilargo is a proud Australian company with a global presence. The vast majority of our products are manufactured and sourced in Australia, meaning fast turnaround and short lead times. We also enjoy direct links to suppliers, partners and customers in the United Kingdom, Asia, the Middle East and New Zealand. Our products are rigorously, independently and regularly tested and all come with the Kilargo Integrity Seal: your guarantee that they're backed by our passion for excellence, innovation, service, partnership, expertise and sustainability.

For us, it's about providing exceptional products for great buildings: helping you to meet regulations, protect people and property, and enhance well-being. Choosing Kilargo simply means choosing the best solution for your project, every time.



Intumescent Fire Damper System Selector

PENETRATION	SYSTEM	BUILDING ELEMENT	FRL	PRODUCT	
WALL	WM1	Masonry / Concrete	-/120/-	IFD44C-LL	
	WM1i	Masonry / Concrete	-/120/120	IFD44C-LL	
	WM2	Masonry / Concrete	-/240/-	IFD44C-LL	
	WM3i	Masonry / Concrete	-/120/120	IFD44-LL	
	WM4	Masonry / Concrete	-/120/-	IFD44C-LL	
	WM5	Masonry / Concrete	-/120/120	IFDO-LL	
	WM5i	Masonry / Concrete	-/120/120	IFDO-LL	
	WM6	Masonry / Concrete	-/120/-	IFD44C-LL	
	WM6i	Masonry / Concrete	-/120/120	IFD44C-LL	
	WD1i	Dincel	-/120/120	IFD44-LL	
	WD2	Dincel	-/120/-	IFD44C-LL	
	WH1	Hebel	-/120/-	IFD44C-LL	
	WHIi	Hebel	-/120/120	IFD44C-LL	
	WH2	Hebel	-/120/120	IFDO-LL	
	WH2i	Hebel	-/120/120	IFD44C-LL	
	WH3i	Hebel	-/120/120	IFD44-LL	
	WH4	Hebel	-120/120	IFDO-LL	
	WH4i	Hebel	-120/120	IFDO-LL	
	WH5	Hebel	-/120/-	IFD44C-LL	
	WH6i	Hebel	-/120/120	IFD44-LL	
	WH7	Hebel	-/120/-	IFD44C-LL	
	WH7i	Hebel	-/120/120	IFD44C-LL	
	WH8i	Hebel	-120/120	IFD44-LL	
	WH9	Hebel	-/120/120	IFDO-LL	
	WH9i	Hebel	-/120/120	IFDO-LL	
	WH10	Hebel	-120/120	IFDO-LL	
	WH10i	Hebel	-120/120	IFDO-LL	
	WH11	Hebel	-/120/-	IFD44C-LL	
	WP1	FR Plasterboard 1 x 16	-/90/-	IFD44C-LL	
	WP1i	FR Plasterboard 1 x 16	-/90/90	IFD44-LL	
	WP2	FR Plasterboard 3 x 16	-/120/-	IFD44C-LL	
	WP2i	FR Plasterboard 3 x 16	-/120/120	IFD44-LL	
	WP3	FR Plasterboard 2 x 16	-/120/120	IFDO-LL	
	WP3i	FR Plasterboard 2 x 16 + 1	-/120/120	IFDO-LL	
	WP4	FR Plasterboard 25 + 2	-/120/120	IFDO-LL	
	WP4i	FR Plasterboard 25 + 2 + 1	-/120/120	IFDO-LL	
	WP5	FR Plasterboard 3 x 16 + 1	-/120/120	IFDO-LL	
	WP5i	FR Plasterboard 3 x 16 + 1	-/120/120	IFDO-LL	
	WP6	FR Plasterboard 3 x 16	-/120/120	IFDO-LL	

APPLICATION / MOUNTING DETAIL	MAX. SIZE	CONDITION
Mounted in casing DD / DG	1200 x 1200	
Mounted in casing DD with insulated rating	250 x 250 or 0.0625m ²	
Mounted in casing DD / DG	300 x 300	
Cell only - Air Transfer with grilles or flat vermin proof mesh	1200 x 1200	
Mounted hard up to slab with 30mm fire board packer - angles 3 side only	300 x 300	
Duct to duct / duct to grille	350 DIA	
Transfer Air with mesh guard	350 DIA	
Mounted hard up to slab (with no packer) - angles 3 sides only	300 x 300	
Mounted hard up to slab (with no packer) - angles 3 sides only	250 x 250 or 0.0625m ²	
Cell only - Air Transfer with grilles or flat vermin proof mesh	600 x 600	
Mounted in casing DD / DG	600 x 600	
Mounted in casing DD / DG in 75SS system hebel wall	300 x 300	without build up
Mounted in casing DD with insulation 75SS system hebel wall	250 x 250 or 0.0625m ²	
DD / DG in 75SS system hebel wall	350 DIA	
Mounted in casing DD with insulation 75SS system hebel wall	250 x 250 or 0.0625m ²	
Cell only - Air Transfers with grilles or flat vermin proof mesh in 75SS hebel wall	300 x 300	without build up
DD / DG in 75mm hebel wall with FR plasterboard liner on one side	350 DIA	
Transfer Air with mesh guard in 75mm hebel wall with FR plasterboard liner on one side	350 DIA	
Mounted in casing DD / DG in 75mm hebel wall with plasterboard lining	300 x 300	without build up
Cell only - Air Transfer with grilles or flat vermin proof mesh in 75mm hebel wall with plasterboard lining	300 x 300	without build up
Mounted in casing tight to underside of slab with 30mm thick packer and angles on 3 side of the IFD on 1 side of the wall	300 x 300	
Mounted in casing DD with insulation rating in 75mm hebel wall with FR plasterboard lining	250 x 250 or 0.0625m ²	
Cell only - Air Transfer with grilles or flat vermin proof mesh in 75SW hebel wall	300 x 300	without build up
DD / DG in 75 hebel wall lined with plasterboard	350 DIA	
Transfer Air with mesh guard in 75mm hebel wall lined with plasterboard	350 DIA	
DD / DG in 75 hebel wall	350 DIA	
Transfer Air with mesh guard in 75mm hebel wall	350 DIA	
Mounted in casing DD / DG in 75SW system hebel wall	300 x 300	without build up
Mounted in casing DD / DG	300 x 300	without build up
Cell only - Air Transfer with grilles or flat vermin proof mesh	300 x 300	without build up
Mounted in casing DD / DG	1200 x 1200	
Cell only - Air Transfer with grilles or flat vermin proof mesh	1200 x 1200	
Duct to duct / Duct to grille	350 DIA	
Transfer Air with mesh guard	350 DIA	
Duct to duct / Duct to grille	350 DIA	
Transfer Air with mesh guard	350 DIA	
Duct to duct / Duct to grille	350 DIA	
Transfer Air with mesh guard	350 DIA	
Duct to duct / Duct to grille	350 DIA	

PENETRATION	SYSTEM	BUILDING ELEMENT	FRL	PRODUCT	
	WP7	FR Plasterboard 2 x 16	-/120/-	IFD44C-LL	
	WP7i	FR Plasterboard 2 x 16	-/120/120	IFD44-LL	
	WP8	FR Plasterboard 1 x 13	-/60/-	IFD44C-LL	
	WP8i	FR Plasterboard 1 x 13	-/60/60	IFD44-LL	
	WP9	FR Plasterboard 2 x 13	-/120/-	IFD44C-LL	
	WP9i	FR Plasterboard 2 x 13	-/120/120	IFD44-LL	
	WP10	Plasterboard 1 x 25 liner + 2 x 13 or 16 layers	-/120/-	IFD44C-LL	
	WP12	FR Plasterboard 1 x 13	-/60/60	IFDO-LL	
	WP12i	FR Plasterboard 1 x 13	-/60/60	IFDO-LL	
	WP13	FR Plasterboard 1 x 16	-/90/90	IFDO-LL	
	WP13i	FR Plasterboard 1 x 16	-/90/90	IFDO-LL	
	WP14	FR Plasterboard 2 x 13	-/120/120	IFDO-LL	
	WP14i	FR Plasterboard 2 x 13	-/120/120	IFDO-LL	
	WP15i	FR Plasterboard 1 x 16 + 1	-/90/90	IFD44C-LL	
	WP16i	FR Plasterboard 2 x 16 + 1	-/120/120	IFD44C-LL	
	WP17i	FR Plasterboard 1 x 13 + 1	-/60/60	IFD44C-LL	
	WP18i	FR Plasterboard 2 x 13 + 1	-/120/120	IFD44C-LL	
	WRF1	Masonry	-/120/-	IFD44-LL	
	WRF2	Hebel	-/120/-	IFD44-LL	
	WRF3	Plasterboard 3 x 16	-/120/-	IFD44-LL	
	WRF4	Plasterboard 2 x 16	-/120/-	IFD44-LL	
	WRF5	Plasterboard 2 x 13	-/120/-	IFD44-LL	
	WRF6	Plasterboard 1 x 25 liner + 2 x 13 or 16 layers	-/120/-	IFD44-LL	
	WRF7	Plasterboard 1 x 16	-/90/-	IFD44-LL	
	WRF8	Plasterboard 1 x 13	-/60/-	IFD44-LL	
	WRF9	Dincel	-/120/-	IFD44-LL	
	WRF1s	Masonry	-/120/-	IFD44-LL	
	WRF2s	Hebel	-/120/-	IFD44-LL	
	WRF3s	Plasterboard 3 x 16	-/120/-	IFD44-LL	
	WRF4s	Plasterboard 2 x 16	-/120/-	IFD44-LL	
	WRF5s	Plasterboard 2 x 13	-/120/-	IFD44-LL	
	WRF6s	Plasterboard 1 x 25 liner + 2 x 13 or 16 layers	-/120/-	IFD44-LL	
	WRF7s	Plasterboard 1 x 16	-/90/-	IFD44-LL	
	WRF8s	Plasterboard 1 x 13	-/60/-	IFD44-LL	
	WRF9s	Dincel	-/120/-	IFD44-LL	
	WFB1	Fire Rated Board	-/120/-	IFD44C-LL	
	WFB1i	Fire Rated Board	-/120/120	IFD44-LL	
	WFB3	Fire Rated Board + 2 x PB	-/120/-	IFD44C-LL	
	WFB3i	Fire Rated Board + 2 x PB	-/120/120	IFD44-LL	
SHAFTWALL	WSRF1	Masonry	-/120/-	IFD44-LL	
	WSRF2	Hebel	-/120/-	IFD44-LL	
	WSRF3	Plasterboard 3 x 16	-/120/-	IFD44-LL	
	WSRF4	Plasterboard 2 x 16	-/120/-	IFD44-LL	
	WSRF5	Plasterboard 2 x 13	-/120/-	IFD44-LL	
	WSRF6	Plasterboard 1 x 25 liner + 2 x 13 or 16 layers	-/120/-	IFD44-LL	
	WSRF7	Plasterboard 1 x 16	-/90/-	IFD44-LL	

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APPLICATION / MOUNTING DETAIL	MAX. SIZE	CONDITION
Mounted in casing DD / DG	1200 x 1200	
Cell only - Air Transfer with grilles or flat vermin proof mesh	1200 x 1200	
Mounted in casing DD / DG	300 x 300	without build up
Cell only - Air Transfer with grilles or flat vermin proof mesh	300 x 300	without build up
Mounted in casing DD / DG	1200 x 1200	
Cell only - Air Transfer with grilles or flat vermin proof mesh	1200 x 1200	
Mounted in casing DD / DG	1200 x 1200	
Duct to duct / Duct to grille	350 DIA	
Transfer Air with mesh guard	350 DIA	
Duct to duct / Duct to grille	350 DIA	
Transfer Air with mesh guard	350 DIA	
Duct to duct / Duct to grille	350 DIA	
Transfer Air with mesh guard	350 DIA	
Mounted in casing DD with insulation rating	250 x 250 or 0.0625m ²	
Mounted in casing DD with insulation rating	250 x 250 or 0.0625m ²	
Mounted in casing DD with insulation rating	250 x 250 or 0.0625m ²	
Mounted in casing DD with insulation rating	250 x 250 or 0.0625m ²	
Retrofit cell only in ductwork	600 x 600	
Retrofit cell only in ductwork	300 x 300	without build up
Retrofit cell only in ductwork	600 x 600	
Retrofit cell only in ductwork	600 x 600	
Retrofit cell only in ductwork	600 x 600	
Retrofit cell only in ductwork	600 x 600	
Retrofit cell only in ductwork	300 x 300	without build up
Retrofit cell only in ductwork	300 x 300	without build up
Retrofit cell only in ductwork	600 x 600	
Retrofit cell only in ductwork hard to slab	300 x 300	
Retrofit cell only in ductwork hard to slab	300 x 300	
Retrofit cell only in ductwork hard to slab	300 x 300	
Retrofit cell only in ductwork hard to slab	300 x 300	
Retrofit cell only in ductwork hard to slab	300 x 300	
Retrofit cell only in ductwork hard to slab	300 x 300	
Retrofit cell only in ductwork hard to slab	300 x 300	
Retrofit cell only in ductwork hard to slab	300 x 300	
Retrofit cell only in ductwork hard to slab	300 x 300	
Mounted in casing DD / DG	300 x 300	
Cell only - Air Transfer with grilles or flat vermin proof mesh	300 x 300	
Mounted in casing DD / DG	300 x 300	
Cell only - Air Transfer with grilles or flat vermin proof mesh	300 x 300	
Retrofit cell only in ductwork riser branch	600 x 600	
Retrofit cell only in ductwork riser branch	600 x 600	
Retrofit cell only in ductwork riser branch	600 x 600	
Retrofit cell only in ductwork riser branch	600 x 600	
Retrofit cell only in ductwork riser branch	600 x 600	
Retrofit cell only in ductwork riser branch	600 x 600	
Retrofit cell only in ductwork riser branch	600 x 600	

PENETRATION	SYSTEM	BUILDING ELEMENT	FRL	PRODUCT	
	WSRF8	Plasterboard 1 x 13	-/60/-	IFD44-LL	
	WSRF9	Dincel	-/120/-	IFD44-LL	
	WSRF1s	Masonry	-/120/-	IFD44-LL	
	WSRF2s	Hebel	-/120/-	IFD44-LL	
	WSRF3s	Plasterboard 3 x 16	-/120/-	IFD44-LL	
	WSRF4s	Plasterboard 2 x 16	-/120/-	IFD44-LL	
	WSRF5s	Plasterboard 2 x 13	-/120/-	IFD44-LL	
	WSRF6s	Plasterboard 1 x 25 liner + 2 x 13 or 16 layers	-/120/-	IFD44-LL	
	WSRF7s	Plasterboard 1 x 16	-/90/-	IFD44-LL	
	WSRF8s	Plasterboard 1 x 13	-/60/-	IFD44-LL	
	WSRF9s	Dincel	-/120/-	IFD44-LL	
	WSW1	Masonry	-/120/-	IFD44C-LL	
	WSW2	Masonry	-/120/-	IFD44C-LL	
	WSW3	Masonry	-/120/-	IFD44C-LL	
	WSW4	Plasterboard 3 x 16	-/120/-	IFD44C-LL	
	WSW5	Plasterboard 3 x 16	-/120/-	IFD44C-LL	
	WSW6	Hebel	-/120/-	IFD44C-LL	
	WSW7	Hebel	-/120/-	IFD44C-LL	
	WSW8	Hebel	-/120/-	IFD44C-LL	
	WSW9	Plasterboard 3 x 16	-/120/-	IFD44C-LL	
	WSW10	Plasterboard 2 x 16	-/120/-	IFD44C-LL	
	WSW11	Plasterboard 1 x 13	-/60/-	IFD44C-LL	
	WSW12	Plasterboard 2 x 13	-/120/-	IFD44C-LL	
	WSW13	Plasterboard 1 x 16	-/90/-	IFD44C-LL	
	WSW14	Plasterboard 1 x 25 liner + 2 x 13 or 16 layers	-/120/-	IFD44C-LL	
	WSW15	Dincel	-/120/-	IFD44C-LL	
	WSW23	Masonry	-/120/-	IFD44-LL	
	WSW24	Hebel	-/120/-	IFD44-LL	
	WSW25	Dincel	-/120/-	IFD44-LL	
	WSW27	Plasterboard 1 x 16	-/90/-	IFD44-LL	
	WSW28	Plasterboard 2 x 16	-/120/-	IFD44-LL	
	WSW29	Plasterboard 3 x 16	-/120/-	IFD44-LL	
	WSW30	Plasterboard 1 x 13	-/60/-	IFD44-LL	
	WSW31	Plasterboard 2 x 13	-/120/-	IFD44-LL	
51.000	WSW32	Plasterboard 1 x 25 liner + 2 x 13 or 16 layers	-/120/-	IFD44-LL	
FLOOR	FL1i	Concrete Slab	-/120/120	IFD44-LL	
_	FL2	Concrete Slab	-/120/-	IFD44C-LL	
	FL3i	Concrete Slab	-/120/120	IFD44C-LL	
	FL4	Concrete Slab	-/120/-	IFD0-LL	
	FFB1 FFB2i	Retrofit Fire board systems Retrofit Fire board systems	-/120/- -/120/120	IFD44-LL IFD44-LL	
CEILING	CE1-60	13 & 16mm layer FR P/Board	-/60/60	IFD44-LL	
GEILING	CE1-60	2 x 16mm FR P/Board	-/90/90	IFD-CE1-LL	
	CE1-90	3 x 16mm FR P/Board	-/120/120	IFD-CEI-LL	
	CE4-60	13 & 16mm layer FR P/Board	-/60/60	IFD-CE4-LL	
	CE4-60	2 x 16mm layer FR P/Board	-/90/90	IFD-CE4-LL	
	CE4-90	3 x 16mm layer FR P/Board	-/120/120	IFD-CE4-LL	
	6E4-120	o x toffin layer FK F/DUalu	-/120/120		

APPLICATION / MOUNTING DETAIL	MAX. SIZE	CONDITION
Retrofit cell only in ductwork riser branch	600 x 600	
Retrofit cell only in ductwork riser branch	600 x 600	
Retrofit cell only in ductwork riser branch hard to slab	300 x 300	
Retrofit cell only in ductwork riser branch hard to slab	300 x 300	
Retrofit cell only in ductwork riser branch hard to slab	300 x 300	
Retrofit cell only in ductwork riser branch hard to slab	300 x 300	
Retrofit cell only in ductwork riser branch hard to slab	300 x 300	
Retrofit cell only in ductwork riser branch hard to slab	300 x 300	
Retrofit cell only in ductwork riser branch hard to slab	300 x 300	
Retrofit cell only in ductwork riser branch hard to slab	300 x 300	
Retrofit cell only in ductwork riser branch hard to slab	300 x 300	
Mounted in casing - angle free riser connection	600 x 600 or 0.36 m2	without build up
Mounted in casing - angle free riser connection tight to slab with packer	300 x 300	
Mounted in casing - angle free riser connection tight to slab with IBS rod & mastic	300 x 300	
Mounted in casing - angle free riser connection tight to slab with packer	300 x 300	
Mounted in casing - angle free riser connection tight to slab with IBS rod & mastic	300 x 300	
Mounted in casing - angle free riser connection	300 x 300	without build up
Mounted in casing - angle free riser connection tight to slab with packer	300 x 300	without build up
Mounted in casing - angle free riser connection tight to slab with IBS rod & mastic	300 x 300	
Mounted in casing - angle free riser connection	600 x 600 or 0.36 m2	
Mounted in casing - angle free riser connection	600 x 600 or 0.36 m2	
Mounted in casing - angle free riser connection	300 x 300	without build up
Mounted in casing - angle free riser connection	600 x 600 or 0.36 m2	without build up
Mounted in casing - angle free riser connection	300 x 300	without build up
Mounted in casing - angle free riser connection	600 x 600 or 0.36 m2	without build up
Mounted in casing - angle free riser connection	600 x 600	
Cell only installed in riser with grille on one side	600 x 600 or 0.36 m2	
Cell only installed in riser with grille on one side	300 x 300	without build up
Cell only installed in riser with grille on one side	600 x 600	without build up
Cell only installed in riser with grille on one side	300 x 300	without build up
Cell only installed in riser with grille on one side	600 x 600 or 0.36 m2	without build up
Cell only installed in riser with grille on one side	600 x 600 or 0.36 m2	
Cell only installed in riser with grille on one side	300 x 300	without build up
Cell only installed in riser with grille on one side	600 x 600 or 0.36 m2	without build up
Cell only installed in riser with grille on one side Cell only - Air Transfer with grilles or flat vermin proof mesh	600 x 600 or 0.36 m2 1200 x 1200	
Mounted in casing DD / DG	1200 x 1200	_
Mounted in casing DD with insulation rating	250 x 250 or 0.0625m ²	
Steel sleeve in penetration	350 DIA	_
Mounted in casing DD / DG	300 x 300	
Cell only - Air Transfer with grilles or flat vermin proof mesh	300 x 300	
P/Board clad plenum box (60min RISF Incipient rated)	600 x 600	
P/Board clad plenum box (up to 90min RISF Incipient rated)	600 x 600	
P/Board clad plenum box (up to 120min RISF Incipient rated)	600 x 600	
P/Board clad plenum box (60min RISF Incipient rated)	405 x 405	
P/Board clad plenum box (up to 90min RISF Incipient rated)	405 x 405	
P/Board clad plenum box (up to 120min RISF Incipient rated)	405 x 405	



Excellence, Every Time

Our products perform and last. We subject every Kilargo product to tough, independent and regular testing. We have earned a reputation for exceptional quality and reliability in commercial and multi-occupancy buildings across Australia and around the world.

The Latest and Best

With Kilargo, you know you're getting the latest thinking in building safety, comfort and energy efficiency. We create, innovate and update. We are industry leaders in research and product development – and we're constantly involved in new developments internationally.

Superb Service, No Fuss

We keep our promises, tackle challenges with gusto, and deliver on time and on budget. Most of our products are manufactured and sourced domestically, meaning fast turnaround and short lead times. We pride ourselves on being technical specialists with a straight-talking approach. We make it quick and easy for you: from selection to installation.

Real Partnership

We know that our work can influence reputations and protect lives. That's why we don't sell products and walk away. We strive to truly understand our clients' needs and build enduring partnerships. That way, we see things through your eyes – so we're proactive, resourceful and always ready when you need us.

Great Team, Unbeatable Experience

With Kilargo, you get a great team that knows its stuff. We employ the best people and we're respected experts in the principles of fire, smoke and sound. We've been an internationally respected leader in the commercial building industry for more than 30 years – and we're proud to drive standards and quality further every day.

Bigger Commitment

We see the bigger picture ... and our passion for the built environment extends to the natural environment. We continue to meet and exceed all relevant environmental legal requirements, reduce and manage our waste and emissions, and use resources as efficiently as possible.

Intumescent Fire Dampers

Fire resistant walls and floors in a building play an important part in containing the spread of fire and smoke. However, a building also needs to be well ventilated for the health and comfort of its occupants.

Systems of natural and mechanical ventilation often require ducting to pass through fire resistant walls and floors, and this can compromise the fire containment in the building.

Generally, any fire rated door, wall, floor or ceiling penetrated by a supply air or return air duct or associated inlet or outlet, requires a fire damper - except for smoke spill fire rated ducting, ducting contained within a fire rated shaft, or supply air ducts used for pressurisation or purging systems.

The Kilargo solution is to fit intumescent fire dampers / air transfer grilles at the point where the fire resistant wall or floor is breached. Under normal circumstances these dampers / grilles allow air to pass freely through the building. However, in the event of fire, the slats swell to many times their original thickness, fusing together to form a non-combustible mass which provides fire resistance to match the surrounding construction.

Ventilation through Ducting

Designers recognise the need for buildings to be well ventilated for the health and comfort of occupants. Frequent changes of air flush out airborne infections, plus warm and cool air need to be circulated to maintain comfortable temperatures

Experience has shown that ducting can provide a conduit for fire & hot smoke in the event of fire. Intumescent fire dampers / air transfer grilles, fitted into the duct, at the point where they penetrate fire resistant constructions, prevent the passage of fire and hot smoke. They have been shown by specific testing to be equivalent to a conventional damper in fire and smoke barrier properties, but exhibit high insulation properties as well.

What are Intumescent Fire Dampers?

The Kilargo intumescent fire damper incorporates a designated number of parallel intumescent slats, reinforced with impact resistant steel edging, housed in a rigid steel frame. In a fire situation, increasing temperature causes the slats to swell (intumesce) to many times their original thickness, fusing together to provide a barrier to the passage of fire & hot smoke.

Their lightweight and slim-line design provides for quick, easy, trouble-free installation.

Unlike mechanical type fire dampers, the Kilargo intumescent fire damper does not incorporate any moving components, hence do not require any commissioning release tests or ongoing physical mechanism operation checks.



Standards and Regulations

The Kilargo intumescent low loss fire damper range have been fully fire tested in accordance with AS1530.4-2014 Sections 10 & 11 and comply with the requirements of AS/NZS1668.1-2015 & AS1682.1-2015.

Kilargo intumescent fire dampers are tested to ensure compliance with the 'deemed-to-satisfy' requirements of the Building Code of Australia Section 2019: C3.15 & 2022: C4D15 Openings for service installations 'ventilation & air-conditioning', plus 2019: C3.12 & 2022: C4D13 Openings in floors and ceilings for services.

The installation of these services must be in accordance with AS/NZS1668: The use of mechanical ventilation & air-conditioning in buildings, Part 1: Fire & Smoke Control in buildings.

This requires fire damper applications to be tested to AS1530.4: Fire resistance tests of elements of building construction, and designed and manufactured to AS1682.1: Fire, smoke and air dampers Part 1: Specification.

AS/NZS1668.1

The use of ventilation & air-conditioning in buildings. Part 1: Fire & smoke control in buildings.

This standard sets out the minimum requirements for the design, construction, installation and commissioning of mechanical smoke control systems in buildings.

Section 3 - Fire Protection of Openings in Fire-Resistant Elements

3.1 Scope of Section

This Section sets out requirements intended to maintain the fire integrity or building elements, which may otherwise be compromised by mechanical ventilation or air-conditioning ducts, openings or equipment.

3.2.1 General Requirements

Except where excluded or exempt by Clauses 3.3.2 and 3.3.3, openings in building elements that are required to have an FRL shall be protected with fire dampers, such that the required FRL of the building element is maintained as follows:

- (a) The structural adequacy component of the FRL for the building element shall be maintained by the building element, independent of the fire damper.
- (b) The integrity component of the FRL for the building element shall be maintained by providing a fire damper that has an integrity performance equal to that required of the building element.
- (c) The insulation component of the FRL for the building element shall comply with Clause 3.2.3

3.2.3 Insulation

3.2.3.1 Vertically mounted

The following apply to the insulation of vertically mounted (e.g. wall) fire dampers:

(a) For a shaft-mounted fire damper, insulation is not required

- (b) For a fire damper that is connected to ductwork conforming with Clause 2.3.2 and with a minimum total duct length of 2m (with or without breakaway joints), insulation shall not be required.
- (c) In all other instances, insulation shall be not less than the insulation required of the FRL of the building element in which the fire damper is mounted.

3.2.3.2 Horizontally mounted

The following apply to the insulation of horizontally mounted (e.g. floor) fire dampers:

- (a) For a fire damper mounted at the bottom of a shaft, insulation is not required.
- (b) For a fire damper that is mounted at the top of a shaft and connected to ductwork that is insulated with or surrounded by materials that are not deemed to be combustible and not less than 2m in length and complying with Clause 2.3.2, insulation is not required.
- (c) For a fire damper mounted in a floor without a shaft and connected to ductwork that is insulated with or surrounded by materials that are not deemed to be combustible and not less than 2m in length and complying with Clause 2.3.2, insulation is not required.
- (d) In all other instances, insulation shall be not less than the insulation performance required of the FRL of the building element in which the fire damper is mounted.

Fire Testing

The NCC has concluded the grandfather clause with a grace period allowing fire stopping products tested to previous editions of AS1530.4 to remain valid until the 1st of May 2022. Once the grace period ends, fire dampers must be fire tested to AS1530.4-2014:

Section 10 - Service Penetrations and Control Joints

This Section set out the procedure for determining the fire resistance of elements of construction penetrated by services such as electrical and plumbing services, pipes, conduits, control joints and air transfer grilles (fire dampers) not fitted to ducts.

Section 11 - Fire Dampers and Air Transfer Grille Assemblies in Ducts

This Section specifies the procedure for determining the fire resistance of fire dampers and air transfer grilles in ducts that are used to prevent the passage of fire from one fire compartment to another. The tightness of the damper system is measured by direct flow measurements whilst maintaining a constant pressure differential across the closed damper of 300 Pa while maintaining a leakage rate of no more than 360 m3 /(h/m2).

Kilargo Intumescent Fire Dampers have been tested and assessed to AS1530.4-2014 Sections 10 (Air Transfer systems not fitted to ducts) & 11 (ducted system) covering the following applications:
Walls

- Masonry
- Concrete
- Dincel
- Hebel
- Plasterboard
- Shaftwall
 - -Masonry
 - Concrete
 - Dincel
 - Hebel
 - Plasterboard
- Concrete Floors
- Plasterboard Ceilings
- Fire Doors
- Fire rated board
- Duct to duct or duct to grille systems
- Integrity & Insulation rated Air Transfer Systems with either grilles, louvres or flat vermin-proof mesh
- Retro fitting
- Hard to wall or slab installations

(See System Tables for each application in their relevant section for full details).







Maintenance Requirements

Maintenance provisions for intumescent fire dampers are clearly identified in AS1851.

AS1851-2012:

Maintenance of fire protection systems and equipment

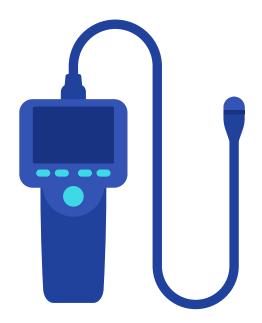
This standard sets out requirements for the inspection, test, preventive maintenance and survey of fire protection systems and equipment.

Routine inspections (functional checks by visual means) are mandatory and required to be performed on 20% of fire dampers (within a building) yearly - so that all fire dampers will have been inspected by the end of the fifth year.

Inspections include:

- Check and ensure that the fire damper is in place, free from obstruction and is capable of operation
- Check fire dampers, including casings and mounting flanges for corrosion
- Check for signs of tampering or modification

Maintenance should be completed at the specified intervals and scheduled in the project's operation and maintenance manuals.



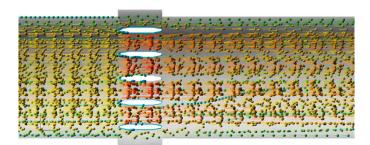
Other Performance Testing

Other Performance Testing

At Kilargo we have acknowledged the requirement for specifiers and contractors to have reliable design data to design and commission mechanical service systems. A designer must have confidence that their installation will perform within the boundaries of their calculated design.

Pressure Drop Testing

To ensure confidence when specifying Kilargo fire dampers, our entire range of IFD series intumescent fire dampers have been tested at Vipac to ANSI/ASHRAE 70-2006. Our dampers have been optimised with the latest intumescent technology to provide minimal pressure loss to maximise energy efficiency. Data from our tests can be found on our website.



Proudly Australian Made

Locally Manufactured Products

Kilargo is proud to locally manufacture it's range of intumescent fire dampers here in Australia. This provides us with the flexibility to offer quality compliant products with a trusted reputation and an unparalleled level of service and support.



New & Custom Made Products

Adopting an innovative approach, Kilargo is continually developing new technology and expanding it's comprehensive range of products. If you do not find your exact requirement within this catalogue, please contact our office. We may be able to supply an existing nonstandard item or develop a customised solution for you.

Technical Services & Support

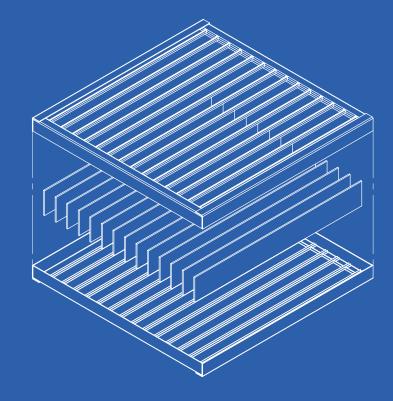
Kilargo is always happy to provide specialist advice on Fire Dampers and their application, for both refurbishment and new projects.

- We offer:
- Technical helpline
- Advice on installations
- Copies of relevant test approvals
- Product Samples
- Technical & performance specifications
- Advice on meeting Building Regulations & Standards

Ordering, Supply & Delivery

Readily available and stocked throughout Australasia by our exciting network of Distributors, offering a wide range of standard stocked sizes, with non-standard and modular products made-to-order. Please contact Kilargo for details on your nearest local distributor.

To find out more about the advantages of intumescent dampers, and to ensure you are up to date with the latest standards and requirements, go on line to download our complete Kilargo IFD Catalogue or contact Kilargo on 1300 858 010.



PRODUCT TECHNICAL DATA

IFD44-LL General Datasheet



Features

- Tested to AS1530.4 2014 Section 10 & 11
- Insulation up to 120 min
- Fire Integrity up to 120 min
- Peel off Installers Label included for AS1682.2 compliance
- AS 1682.1 2015 compliant
- Wider range of flexible & compliant wall, slab & retro-fit systems
- High Performance Design
- Low-Loss = Reduced Pressure & Lowered Acoustic Transmission
- Potential energy efficiency savings

Technical Data

- Fire Integrity Rating: 60 / 90 / 120 minutes
- Insulation Rating: 60 / 90 / 120 minutes
- Pressure Data See Curves
- Sleeve Z275 Galvanised Steel

Image: Description of the definition of the definitio

Pressure Data

Suggested Specifications

All fire dampers shall be Kilargo intumescent IFD-LL series, with no moving parts and allow for bi-directional airflow.

Intumescent fire dampers shall be tested for Fire Resistance Level (FRL)requirements in accordance with AS 1530.4:2014 Section 11 & Section 10.

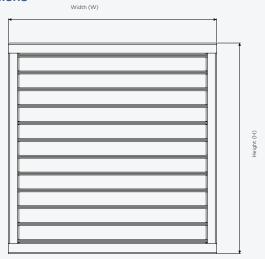
Fire Damper installation shall be strictly in accordance with the relevant requirements of AS1682.2, and Kilargo System Installation details including the use of Kilargo Intumescent Mastic.

Standards & Codes

Relevant standards and codes relating to fire damper performance, fire resistance, installation and maintenance include:

AS 1668.1 2015	Fire & Smoke Control in Buildings
AS 1530.4 2014 Section 10 & 11	Fire test methodology
AS 1682.1 2015	Fire Damper Specification / Design
AS1682.2 2015	Fire Damper Installation
AS 1851:2012	Fire Protection Systems Maintenance

Dimensions



How to order

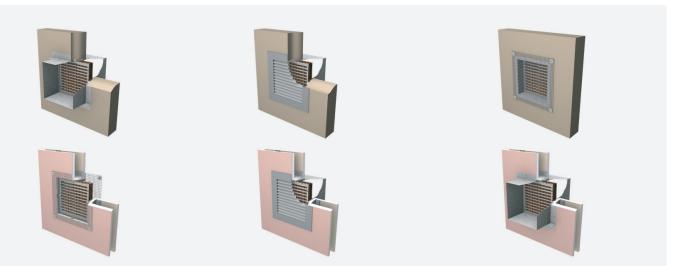
Cell Only:

IFD44-LL Width X Height e.g. IFD44-LL 1200 × 1200

Cased:

IFD44C-LL Width X Height DD or DG Casing Length e.g. IFD44C-LL 1200 x 1200 DD 360

Select IFD size to suit aperture ensuring adequate clearance. Must be ordered at its exact size in mm.



IFDO-LL General Datasheet

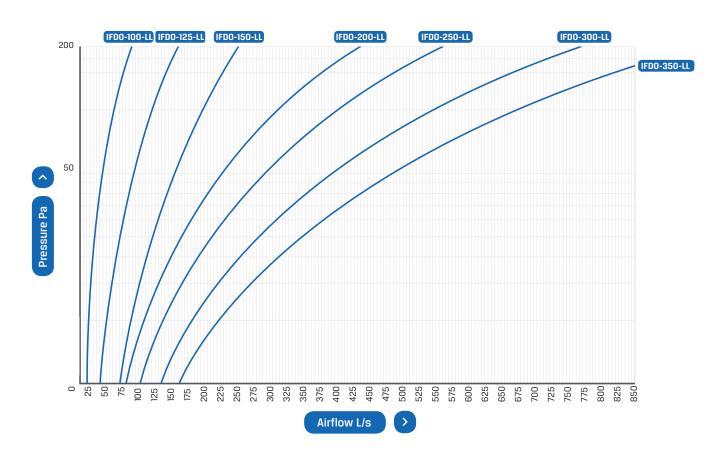


Features

- Tested to AS1530.4 2014 Section 10 & 11
- Insulation up to 120 min
- Fire Integrity up to 120 min
- Peel off Installers Label included for AS1682.2 compliance
- AS 1682.1 2015 compliant
- Wider range of flexible & compliant wall, slab & retro-fit systems
- High Performance Design
- Low-Loss = Reduced Pressure & Lowered Acoustic Transmission
- Potential energy efficiency savings

Technical Data

- Fire Integrity Rating: 60 / 90 / 120 minutes
- Insulation Rating: 60 / 90 / 120 minutes
- Pressure Data See Curves
- Sleeve Z275 Galvanised Steel



Pressure Data

Suggested Specifications

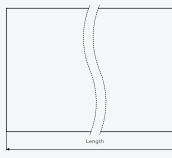
All fire dampers shall be Kilargo intumescent IFD-LL series, with no moving parts and allow for bi-directional airflow.

Intumescent fire dampers shall be tested for Fire Resistance Level (FRL)requirements in accordance with AS 1530.4:2014 Section 11 & Section 10.

Fire Damper installation shall be strictly in accordance with the relevant requirements of AS1682.2, and Kilargo System Installation details including the use of Kilargo Intumescent Mastic.

Dimensions





Nominal Size	Sleeve OD	Sleeve Length
100	104mm	360mm
125	129mm	360mm
150	154mm	360mm
200	204mm	360mm
250	254mm	360mm
300	304mm	360mm
350	354mm	360mm

Standards & Codes

Relevant standards and codes relating to fire damper performance, fire resistance, installation and maintenance include:

AS 1668.1 2015	Fire & Smoke Control in Buildings
AS 1530.4 2014 Section 10 & 11	Fire test methodology
AS 1682.1 2015	Fire Damper Specification / Design
AS1682.2 2015	Fire Damper Installation
AS 1851:2012	Fire Protection Systems Maintenance

How to order

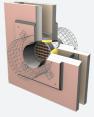
Standard 360mm Long IFDO- ____-LL e.g. IFDO-150-LL

Extended Sleeve Length

IFDO- ____-LL e.g. IFDO-150-LL-800 (for 800mm long)



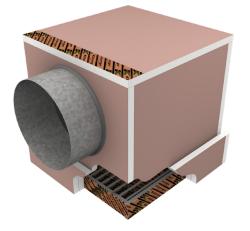








IFDCE1-LL & IFDCE4-LL General Datasheet



Features

- High Performance Design
- Low-Loss = Reduced Pressure & Lowered
- Acoustic Transmission
- Potential energy efficency savings
- Tested to AS1530.4 2014 Section 2 & 4
- Insulation up to 120 min
- Fire Integrity up to 120 min
- RISF rating up to 120 min
- · Peel off Installers Label included for
- AS1682.2 compliance

Technical Data

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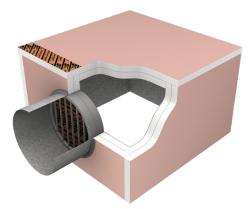
.

- AS 1682.1 2015 compliant
- · Wider range of flexible & compliant installations & FRLs

Fire Integrity Rating: 60 / 90 / 120 minutes

Insulation Rating: 60 / 90 / 120 minutes

Pressure Data - See Curves Sleeve Z275 Galvanised Steel



Standards & Codes

Relevant standards and codes relating to fire damper performance, fire resistance, installation and maintenance include:

AS 1668.1 2015	Fire & Smoke Control in Buildings
AS 1530.4 2014 Section 10 & 11	Fire test methodology
AS 1682.1 2015	Fire Damper Specification / Design
AS 1682.2 2015	Fire Damper Installation
AS 1851:2012	Fire Protection Systems Maintenance

Suggested Specifications

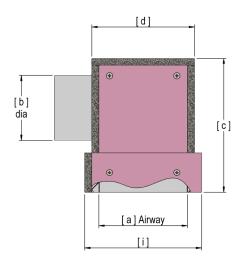
Ceiling Fire dampers shall be Kilargo IFD-CE-LL series intumescent fire dampers. The installation shall be in accordance with approved Kilargo systems installation details and must comply with the requirements AS/NZS 1668.1 and the air leakage test of AS 1682.1.

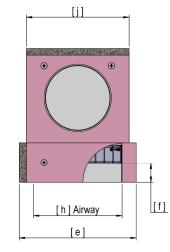
Fire dampers must allow bi-directional airflow and have no moving parts.

Intumescent fire dampers shall be tested for Fire Resistance Level (FRL) requirements in accordance with AS 1530.4:2014 Section 2 & Section 4.

Fire Damper installation shall be strictly in accordance with the relevant requirements of AS 1682.2, and Kilargo System Installation details including the use of Kilargo Intumescent Mastic

IFD-CE1-LL Dimensions





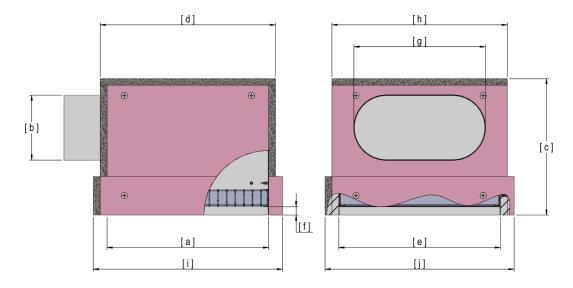
Model				Dir	nensions		
		(a)	(b)	(c)	(d)	(e)	(f)
IFD-CE1-LL	150 150	150	147	301	182	214	43
IFD-CE1-LL	200 150	200	147	301	232	264	43
IFD-CE1-LL	200 200	200	197	351	232	264	43
IFD-CE1-LL	250 250	250	247	401	282	314	43
IFD-CE1-LL	300 300	300	297	451	332	364	43
IFD-CE1-LL	350 350	350	347	501	382	414	43
IFD-CE1-LL	400 400	400	397	551	432	464	43
IFD-CE1-LL	450 400	450	397	551	482	514	43
IFD-CE1-LL	500 400	500	397	551	532	564	43
IFD-CE1-LL	550 400	550	397	551	582	614	43
IFD-CE1-LL	600 400	600	397	551	632	664	43

How to order

IFD-CE1-LL:

IFD-CE1-LL Width x Height + spigot Dia (mm) e.g. IFD-CE1-LL 600 x 600 + 400

IFD-CE1-Lo-LL Dimensions

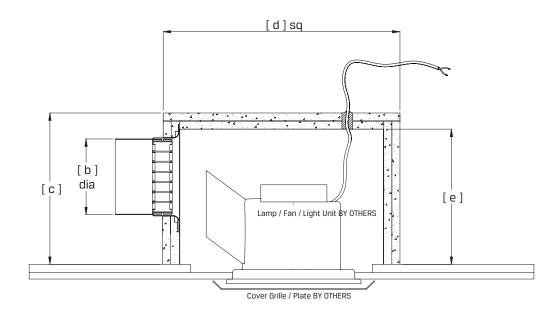


	Model					Dimensio	ons		
		Equivalent Spigot Dia	(a)	(b)	(c)	(d)	(e)	(f)	(g)
IFD-CE1-Lo-LL	200 150	150	200	100	267	232	264	43	178.5
IFD-CE1-Lo-LL	250 150	150	250	100	267	282	314	43	178.5
IFD-CE1-Lo-LL	300 200	200	300	100	267	332	364	43	257
IFD-CE1-Lo-LL	350 250	250	350	100	267	382	414	43	335.5
IFD-CE1-Lo-LL	400 250	250	400	100	267	432	464	43	335.5
IFD-CE1-Lo-LL	450 300	300	450	100	267	482	514	43	414
IFD-CE1-Lo-LL	500 350	350	500	100	267	532	564	43	492.5
IFD-CE1-Lo-LL	550 350	350	550	100	267	582	614	43	492.5
IFD-CE1-Lo-LL	600 400	400	600	100	267	632	664	43	571

How to order

IFD-CE1-Lo-LL: IFD-CE1-Lo-LL Width x Height + spigot Dia (mm) e.g.IFD-CE1-Lo-LL 600 x 600 + 400

IFD-CE1-LL Dimensions



Model Dimensions						
	(a)	(b)	(c)	(d)	(e)	
IFD-CE4-LL-200	205	150	300	270	268	
IFD-CE4-LL-250	255	150	300	320	268	
IFD-CE4-LL-300	305	150	300	370	268	
IFD-CE4-LL-400	405	150	300	470	268	

How to order

IFD-CE4-LL: IFD-CE4-LL _____Model Size e.g. IFD-CE4-LL-400

Kilargo Intumescent Mastic

Kilargo Intumescent Mastic is designed for fire damper perimeter sealing. It is specially formulated for adhesion to metal, plastic, concrete, masonry and plasterboard materials.

Kilargo Intumescent Mastic is water based for easy clean up, and offering smooth gunnability, Kilargo Mastic is flexible, paintable and has acoustic properties. Kilargo approvals specify the use of Kilargo Intumescent Mastic.

Availability

Supplied in 310ml cartridges. Grey colour standard.

Method of Use

- 1. Surfaces should be free from oil and dust.
- 2. Apply mastic to both sides of perimeter gaps to a depth of at least that of the gap width.
- 3. The surface will be tack free in approximately 20 minutes in dry conditions or about 2 hours in a humid environment.
- Large joints (not exceeding 25 mm) can be built up with additional applications after initial drying, in order to avoid excessive slump.
 It may also be necessary to use a non-combustible material or

backing rod in such applications.

5. Any tools can be cleaned with water.

Suggested Specifications

The Intumescent Mastic shall be Kilargo water based type, supplied in 310 ml cartridges.

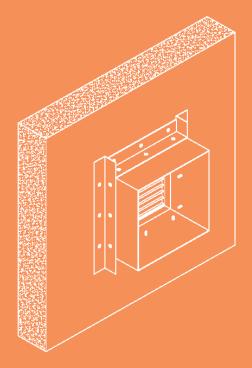
Mastic shall be Kilargo Intumescent type to conform with the Kilargo approved methods of installation.



How to order

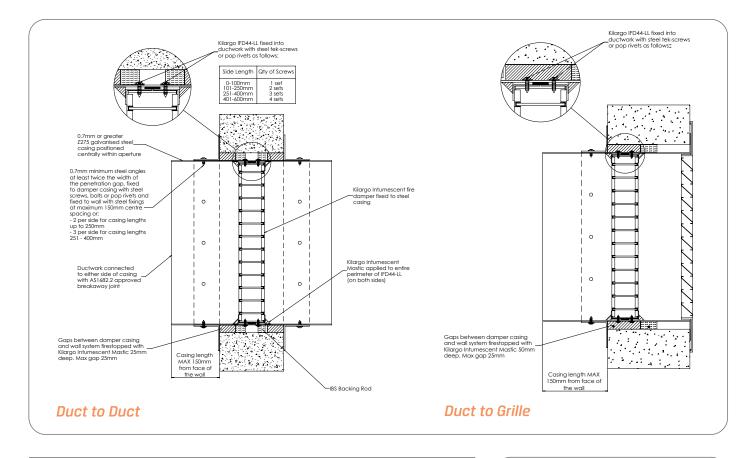
310 ml CARTRIDGE KIM-310 GREY

Supplied in 310 ml tubes individually or in carton quantity.



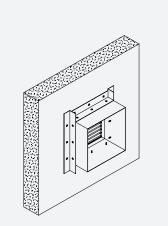
WALL MOUNTED SYSTEMS

Installation Instructions: Ducted



Step 1	Position damper centrally in penetration aperture as per system drawing with IBS Backing Rod and temporary supports or packers
Step 2	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper $\&$ building element. Ensure fill depth corresponds with those detailed in the system drawing
Step 3	Fasten mounting angles to damper with steel self-drilling screws or steel pop rivets and, if detailed, to the building element with appropriate mechanical fixings as per system drawing
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 5	Connect ductwork to the damper casing with AS1682.2 compliant breakaway joint

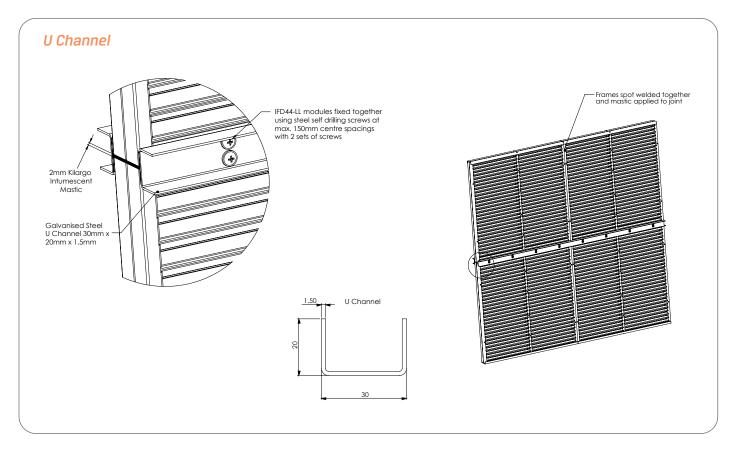
- Grilles, louvres, IBS backing rod & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.



Masonry / Concrete
Mounted in casing DD / DG
1200 x 1200
-/120/-
FAS200229

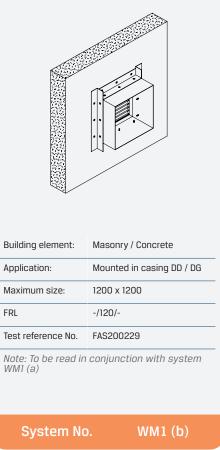
Installation Instructions:

Ducted - Modular

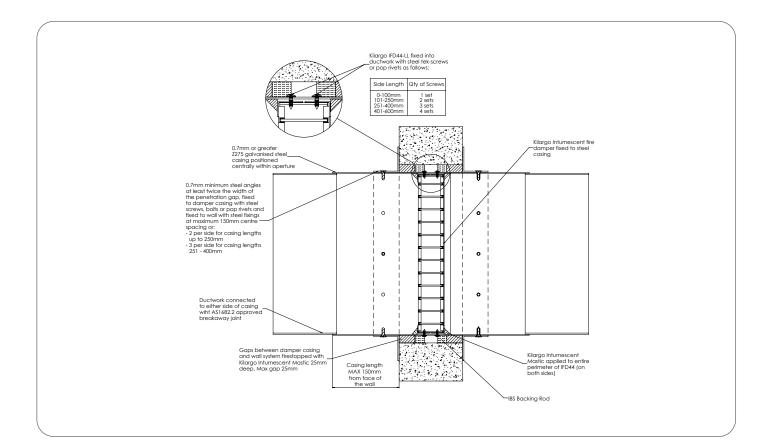


Step 2Align and bring modules together and mechanically fix together using U channels and steel self-drilling screws or steel pop rivets with 2 sets of screws at 150mm centres as per the modular system drawing on both sidesStep 3Fix modular damper to aperture or casing as shown in the appropriate system drawing and installation instructions	Step 1	Apply Kilargo Intumescent Mastic to the opposing module	
	Step 2	channels and steel self-drilling screws or steel pop rivets with 2 sets of	
	Step 3		

- Fixings are to be supplied by others.
- Optional flat joining strips supplied at the time of order in lieu of U channel on request for air transfer systems only.

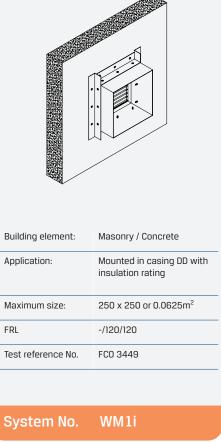


Installation Instructions: Ducted

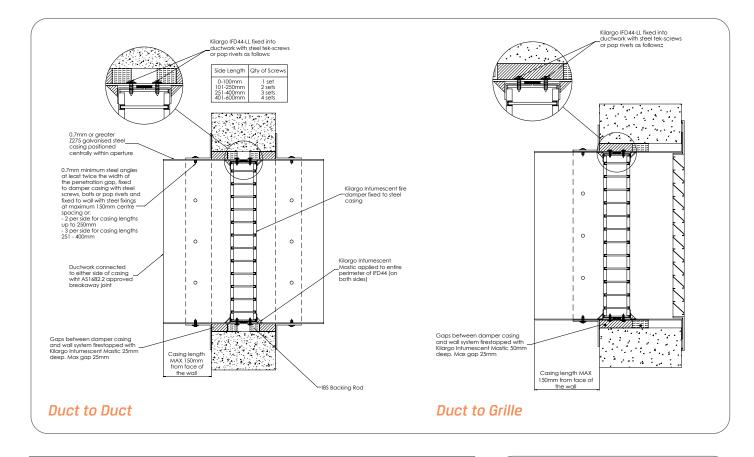


Step 1	Position damper centrally in penetration aperture as per system drawing with IBS Backing Rod and temporary supports or packers.
Step 2	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper & building element. Ensure fill depth corresponds with those detailed in the system drawing.
Step 3	Fasten mounting angles to damper with steel self-drilling screws or steel pop rivets and, if detailed, to the building element with appropriate mechanical fixings as per system drawing.
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections.
Step 5	Connect ductwork to the damper casing with AS 1682.2 compliant breakaway joint.

- IBS backing rod & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2
- Ensure convenient access is provided for visual inspection and cleaning as necessary
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied

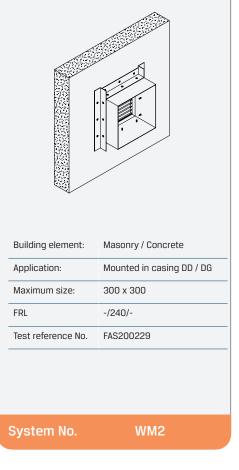


Installation Instructions: Ducted



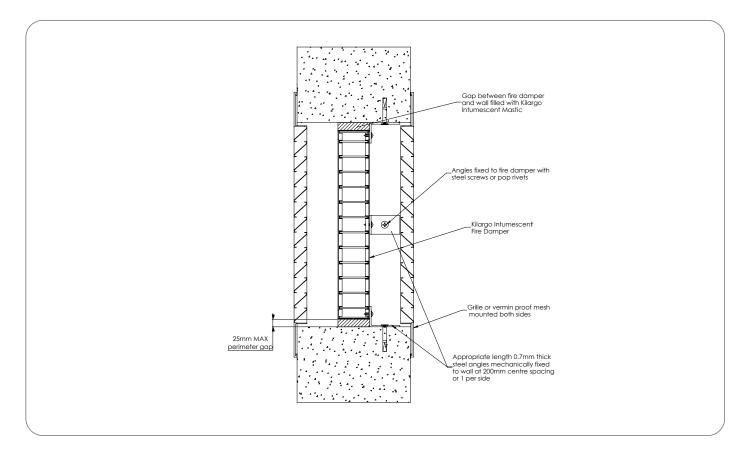
Step 1	Position damper centrally in penetration aperture as per system drawing with IBS Backing Rod and temporary supports or packers
Step 2	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper & building element. Ensure fill depth corresponds with those detailed in the system drawing
Step 3	Fasten mounting angles to damper with steel self-drilling screws or steel pop rivets and, if detailed, to the building element with appropriate mechanical fixings as per system drawing
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 5	Connect ductwork to the damper casing with AS1682.2 compliant breakaway joint

- Grilles, louvres, IBS backing rod & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.



Installation Instructions:

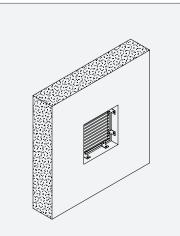
Air-Transfer



Step 1	Position damper centrally in penetration aperture as per system drawing with temporary supports or packers
Step 2	Fasten mounting angles or brackets to damper with steel self-drilling screws or steel pop rivets and to the building element with appropriate mechanical fixings as per system drawing
Step 3	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper & building element. Ensure fill depth corresponds with those detailed in the system drawing
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 5	Fix grilles, louvres or vermin proof mesh independently to each side of the building element

System Notes

- Grilles, louvres, vermin proof mesh, angles, brackets & fixings are to be supplied by others.
- Grilles to be fixed independently to the building element and shall not be fixed to the fire damper.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2
- Ensure convenient access is provided for visual inspection and cleaning as necessary
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.

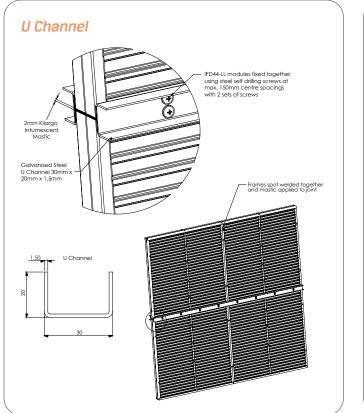


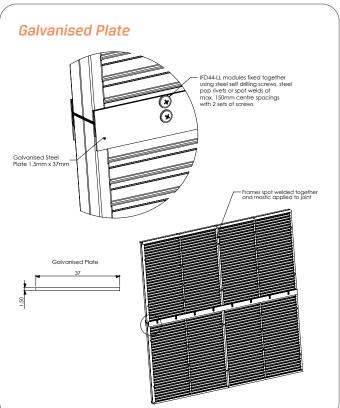
Building element:	Masonry / Concrete
Application:	Cell only - Air Transfer with grilles or flat vermin proof mesh
Maximum size:	1200 x 1200
FRL	-/120/120
Test reference No.	FAS200229

System No.

Installation Instructions:

Air-Transfer - Modular



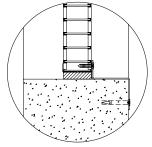


Step 1	Apply Kilargo Intumescent Mastic to the opposing module
Step 2	Align and bring modules together and mechanically fix together using U channels and steel self-drilling screws or steel pop rivets with 2 sets of screws at 150mm centres as per the modular system drawing on both sides
Step 3	Fix modular damper to aperture or casing as shown in the appropriate system drawing and installation instructions

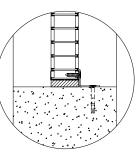
System Notes

- Fixings are to be supplied by others.
- Optional flat joining strips supplied at the time of order in lieu of U channel on request for air transfer systems only.

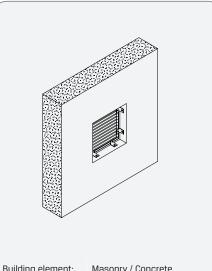
Alternative Fixing Methods



Z Bracket Fixing

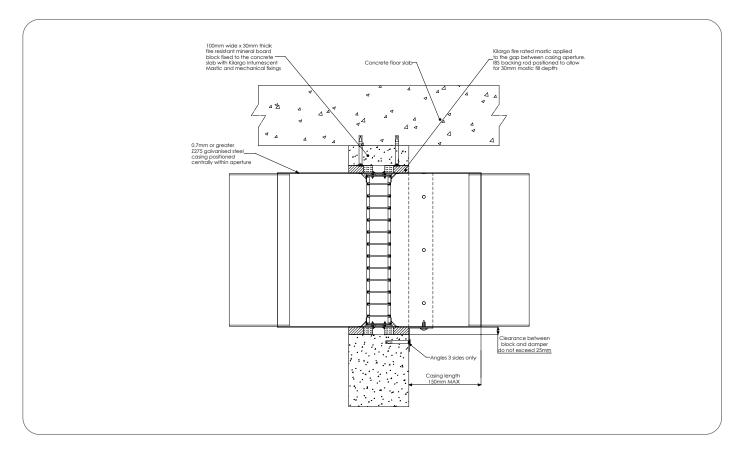


Angle Fixing



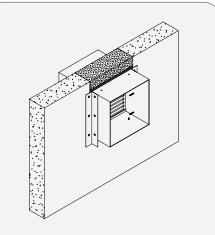
System No.	WM3i (b)
Note: To be read in conjunction with system WM3i (a)	
Test reference No.	FAS200229
FRL	-/120/120
Maximum size:	1200 x 1200
Application:	Cell only - Air Transfer with grilles or flat vermin proof mesh
Building element:	Masoni y / concrete

Installation Instructions: Ducted

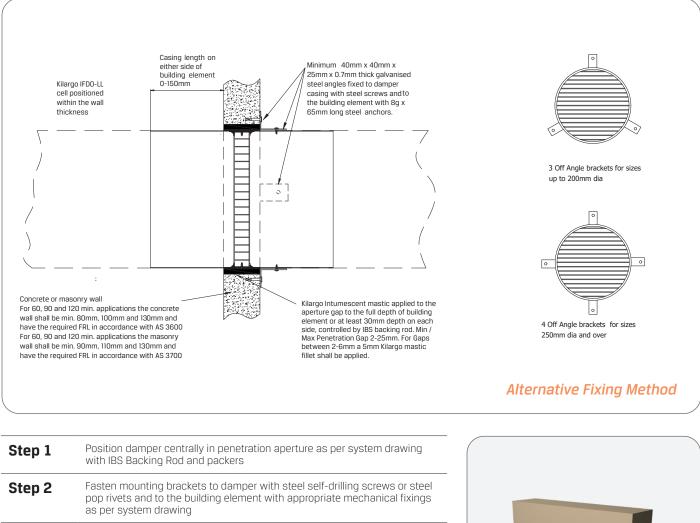


Step 1	Measure and cut 100mm wide x 30mm thick fire-resistant mineral board packer (supplied by others) to match the damper width
Step 2	Mechanically fix 100mm wide x 30mm thick fire-resistant mineral board packer to concrete slab, with Kilargo Intumescent Mastic in between, and steel anchors as per system drawings
Step 3	Position damper centrally in penetration aperture as per system drawing with IBS Backing Rod and temporary supports or packers
Step 4	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper & building element. Ensure fill depth corresponds with those detailed in the system drawing
Step 5	Fasten mounting angles to damper with steel self-drilling screws or steel pop rivets and, if detailed, to the building element with appropriate mechanical fixings as per system drawing
Step 6	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 7	Connect ductwork to the damper casing with AS1682.2 compliant breakaway joint

- Fire-resistant mineral board packer, IBS backing rod & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.



Building element:	Masonry / Concrete
Application:	Mounted hard up to slab with 30mm fire board packer - angles 3 sides only
Maximum size:	300 x 300
FRL	-/120/-
Test reference No.	FAS200229
System No	. WM4



Step 3	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper & building element. Ensure fill depth corresponds with those detailed in the system drawing
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 5	Connect ductwork to the damper casing with AS1682.2 compliant breakaway joint

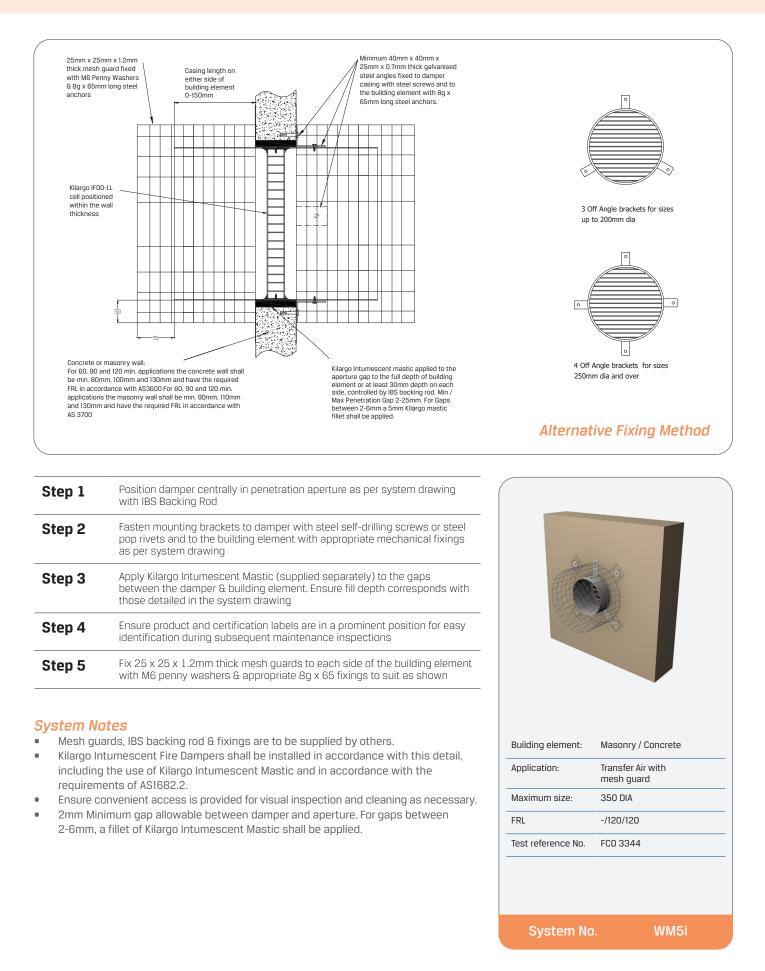
System Notes

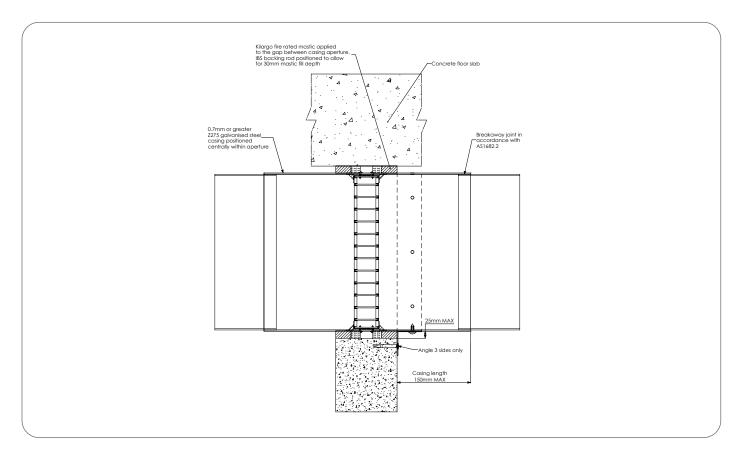
- Grilles, louvres, IBS backing rod & fixings are to be supplied by others. .
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, . including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary. .
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-6mm, a fillet of Kilargo Intumescent Mastic shall be applied.



Building element:	Masonry / Concrete
Application:	Ducted
Maximum size:	350 DIA
FRL	-/120/120
Test reference No.	FC0 3344
System No.	WM5

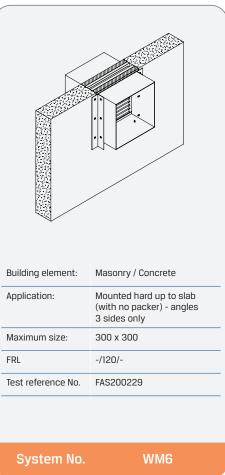
Air Transfer

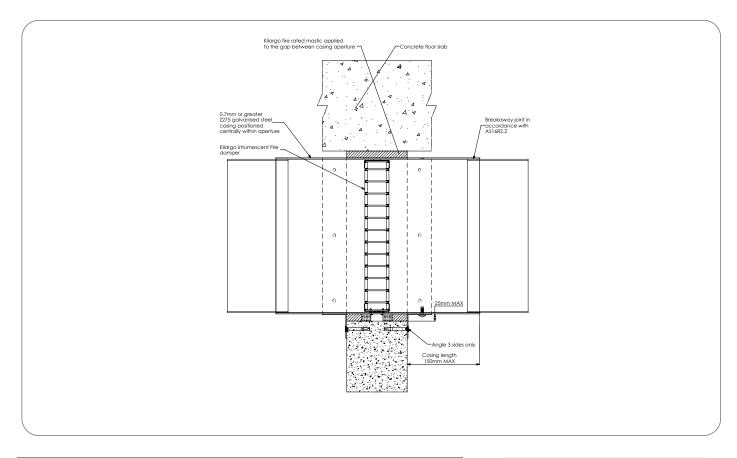




Step 1	Position damper centrally in penetration aperture as per system drawing with IBS Backing Rod and temporary supports or packers
Step 2	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper & building element. Ensure fill depth corresponds with those detailed in the system drawing
Step 3	Fasten mounting angles to damper with steel self-drilling screws or steel pop rivets and, if detailed, to the building element with appropriate mechanical fixings as per system drawing
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 5	Connect ductwork to the damper casing with AS1682.2 compliant breakaway joint

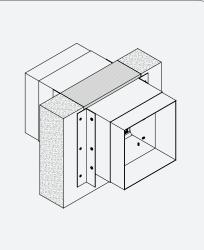
- Grilles, louvres, IBS backing rod & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.





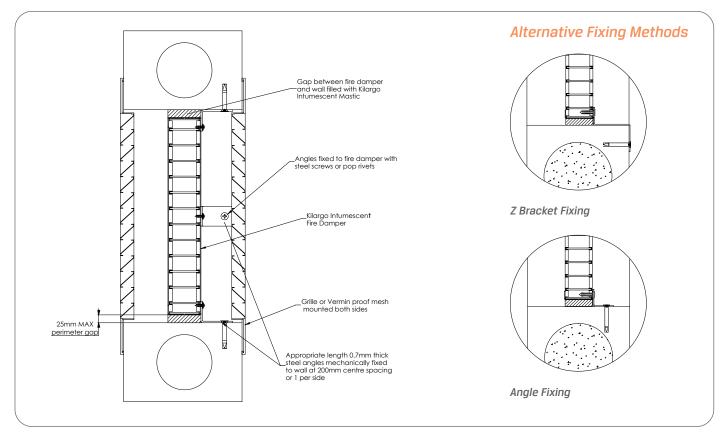
Step 1	Position damper centrally in penetration aperture as per system drawing with IBS Backing Rod and temporary supports or packers.
Step 2	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper & building element. Ensure fill depth corresponds with those detailed in the system drawing.
Step 3	Fasten mounting angles to damper with steel self-drilling screws or steel pop rivets and, if detailed, to the building element with appropriate mechanical fixings as per system drawing.
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections.
Step 5	Connect ductwork to the damper casing with AS 1682.2 compliant breakaway joint.

- IBS backing rod & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2
- Ensure convenient access is provided for visual inspection and cleaning as necessary
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied



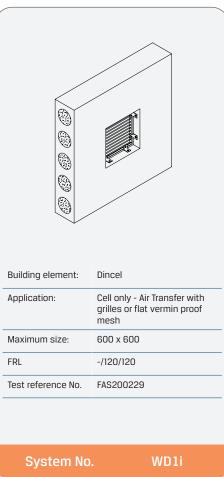
Building element:	Masonry / Concrete
Application:	Mounted hard up to slab - angles 3 sides only
Maximum size:	250 x 250 or 0.0625m ²
FRL	-/120/120
Test reference No.	FC0 3449
System No.	WM6i

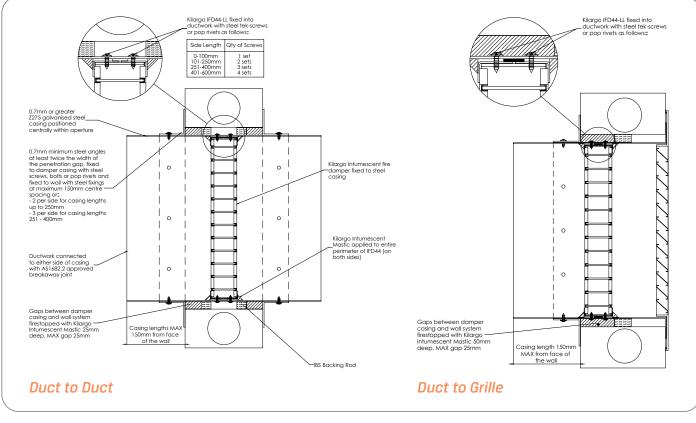
Air-Transfer



Step 1	Position damper centrally in penetration aperture as per system drawing with temporary supports or packers
Step 2	Fasten mounting angles or brackets to damper with steel self-drilling screws or steel pop rivets and to the building element with appropriate mechanical fixings as per system drawing
Step 3	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper & building element. Ensure fill depth corresponds with those detailed in the system drawing
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 5	Fix grilles, louvres or vermin proof mesh independently to each side of the building element

- Grilles, louvres, vermin proof mesh, angles, brackets & fixings are to be supplied by others.
- Grilles to be fixed independently to the building element and shall not be fixed to the fire damper.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.

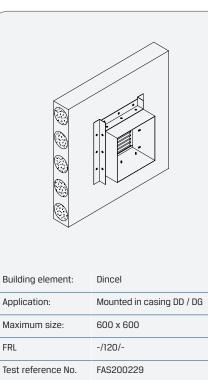




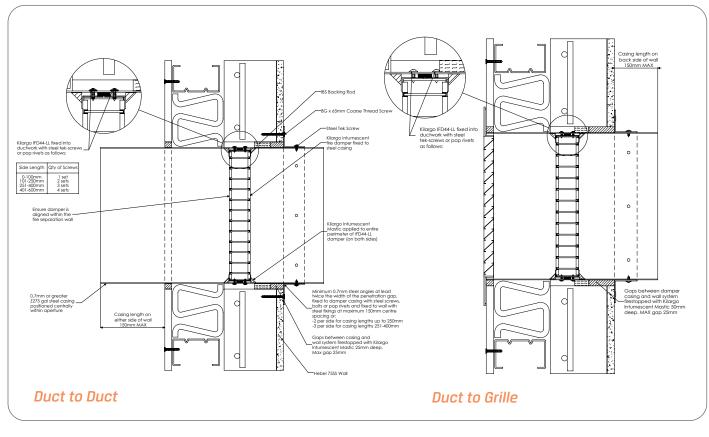
Step 1	Position damper centrally in penetration aperture as per system drawing with IBS Backing Rod and temporary supports or packers	
Step 2	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper & building element. Ensure fill depth corresponds with those detailed in the system drawing	
Step 3	Fasten mounting angles to damper with steel self-drilling screws or steel pop rivets and, if detailed, to the building element with appropriate mechanical fixings as per system drawing	
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections	
Step 5	Connect ductwork to the damper casing with AS1682.2 compliant breakaway joint	

System Notes

- Grilles, louvres, IBS backing rod & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, . including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary. .
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.



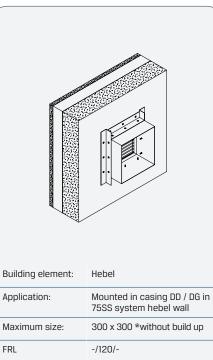
FRL



Step 1	Position damper centrally in penetration aperture as per system drawing with IBS Backing Rod and temporary supports or packers
Step 2	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper & building element. Ensure fill depth corresponds with those detailed in the system drawing
Step 3	Fasten mounting angles to damper with steel self-drilling screws or steel pop rivets and, if detailed, to the building element with appropriate mechanical fixings as per system drawing
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 5	Connect ductwork to the damper casing with AS1682.2 compliant breakaway joint

System Notes

- Grilles, louvres, IBS backing rod & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.



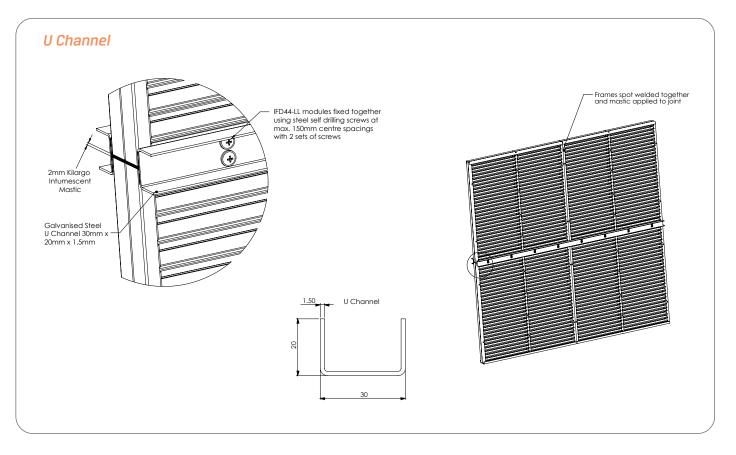
*Max size 1200 x 1200 if wall thickness is built up locally with 100mm wide FR plasterboard to a minimum thickness of 116mm

FAS200229

Test reference No.

System No. WH1 (a)

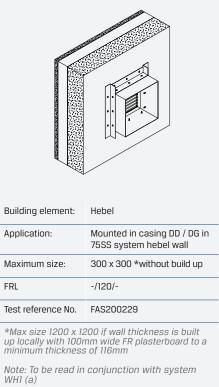
Ducted - Modular



Step 1	Apply Kilargo Intumescent Mastic to the opposing module
Step 2	Align and bring modules together and mechanically fix together using U channels and steel self-drilling screws or steel pop rivets with 2 sets of screws at 150mm centres as per the modular system drawing on both sides
Step 3	Fix modular damper to aperture or casing as shown in the appropriate system drawing and installation instructions

System Notes

- Fixings are to be supplied by others.
- Optional flat joining strips supplied at the time of order in lieu of U channel on request for air transfer systems only.

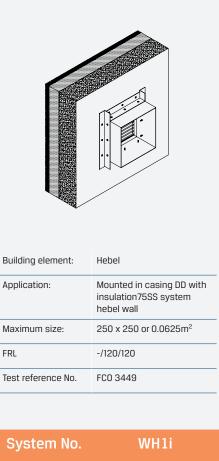


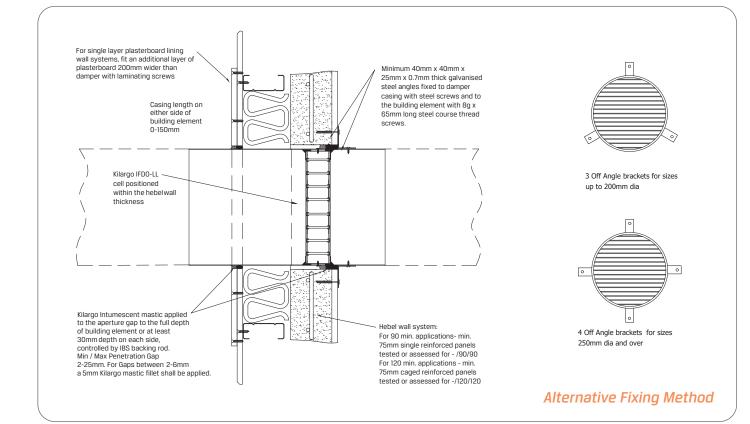
System No.

8G x 65mm Coarse Thread Screw ide Length Qty of Scre Steel Tek Screw 1 set 2 sets 3 sets 4 sets Kilargo Inturne fire damper fix steel casing Kilargo IFD44-LL fixed int ductwork with steel tek-or pop rivets as follows: Kilargo Intur Mastic appli perimet dampe 0 Ensure damper is aligned within the fire separation wa Ductwork connect to either side of co wiht A\$1682.2 app 0 0 um 0.7mm steel angle he width of the pene d d to damper of s or pop rivets Casing length either side of erture gs at m toord panetralian lining. Fre Residance Grade Plasterboard traditional longer all acount than re fixed with 40mm x 10G laminating to the face of the wall of amately 250mm centres and sealed the perimeter with 4mm filet of Kilargo scent Mastic. de for casing lengths up to 250m de for casing lengths 251-400mm ig and ed with Kilargo Intumescent Mastic Max gap 25mm lebel 75SS Wall Install additional 100mm wide plasterboard pad around aperture as per Step 1 system drawing.

Step 2	Position damper centrally in penetration aperture as per system drawing with IBS Backing Rod and temporary supports or packers.	
Step 3	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper & building element & to perimeter of additional plasterboard pad. Ensure fill depth corresponds with those detailed in the system drawing.	
Step 4	Fasten mounting angles to damper with steel self-drilling screws or steel pop rivets and, if detailed, to the building element with appropriate mechanical fixings as per system drawing.	
Step 5	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections.	
Step 6	Connect ductwork to the damper casing with AS 1682.2 compliant breakaway joint.	

- IBS backing rod & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2
- Ensure convenient access is provided for visual inspection and cleaning as necessary
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied





Step 1	Position damper centrally in penetration aperture as per system drawing with IBS Backing Rod and packers
Step 2	Fasten mounting brackets to damper with steel self-drilling screws or steel pop rivets and to the building element with appropriate mechanical fixings as per system drawing
Step 3	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper & building element. Ensure fill depth corresponds with those detailed in the system drawing
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 5	Connect ductwork to the damper casing with AS1682.2 compliant breakaway joint

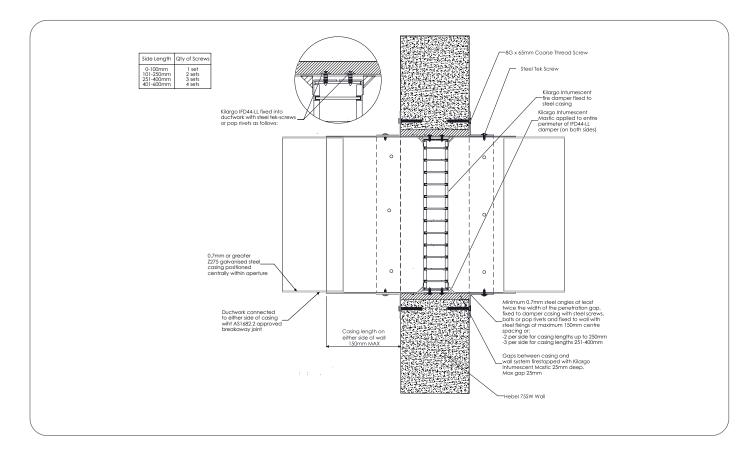
System Notes

- Grilles, louvres, IBS backing rod & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-6mm, a fillet of Kilargo Intumescent Mastic shall be applied.



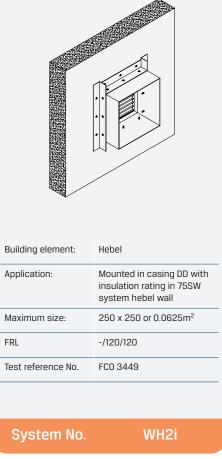
Building element: Hebel

Application:	Ducted in 75SS system hebel wall
Maximum size:	350 DIA
FRL	-/120/120
Test reference No.	FC0 3344

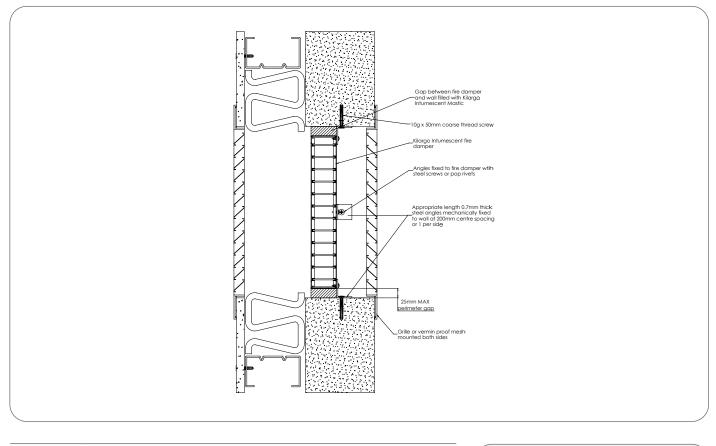


Step 1	Position damper centrally in penetration aperture as per system drawing with IBS Backing Rod and temporary supports or packers.	
Step 2	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper & building element. Ensure fill depth corresponds with those detailed in the system drawing.	
Step 3	Fasten mounting angles to damper with steel self-drilling screws or steel pop rivets and, if detailed, to the building element with appropriate mechanical fixings as per system drawing.	
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections.	
Step 5	Connect ductwork to the damper casing with AS 1682.2 compliant breakaway joint.	

- IBS backing rod & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2
- Ensure convenient access is provided for visual inspection and cleaning as necessary
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied



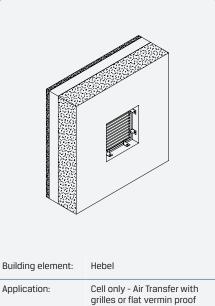
Air-Transfer



Step 1	Position damper centrally in penetration aperture as per system drawing with temporary supports or packers
Step 2	Fasten mounting angles or brackets to damper with steel self-drilling screws or steel pop rivets and to the building element with appropriate mechanical fixings as per system drawing
Step 3	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper & building element. Ensure fill depth corresponds with those detailed in the system drawing
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 5	Fix grilles, louvres or vermin proof mesh independently to each side of the building element

System Notes

- Grilles, louvres, vermin proof mesh, angles, brackets & fixings are to be supplied by others.
- Grilles to be fixed independently to the building element and shall not be fixed to the fire damper.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.

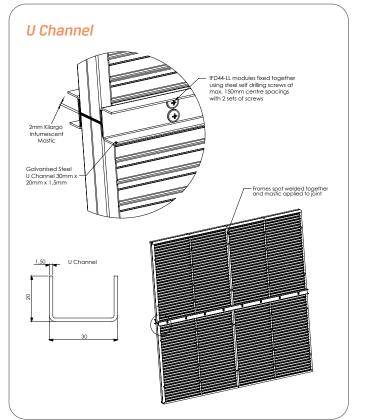


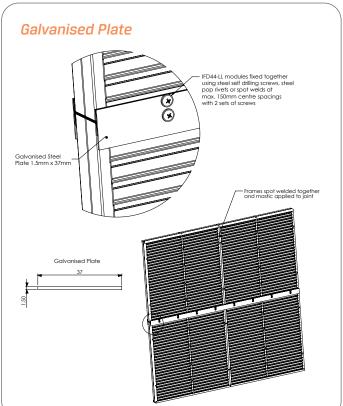
Application:	Cell only - Air Transfer with grilles or flat vermin proof mesh in 75SS hebel wall
Maximum size:	300 x 300 *without build up
FRL	-/120/120
Test reference No.	FAS200229

*Max size 1200 x 1200 if wall thickness is built up locally with 100mm wide FR plasterboard to a minimum thickness of 116mm

System No.

Air-Transfer - Modular



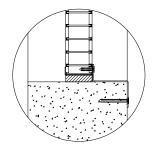


Apply Kilargo Intumescent Mastic to the opposing module	
Align and bring modules together and mechanically fix together using U channels and steel self-drilling screws or steel pop rivets with 2 sets of screws at 150mm centres as per the modular system drawing on both sides	
Fix modular damper to aperture or casing as shown in the appropriate system drawing and installation instructions	

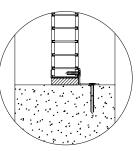
System Notes

- Fixings are to be supplied by others.
- Optional flat joining strips supplied at the time of order in lieu of U channel on request for air transfer systems only.

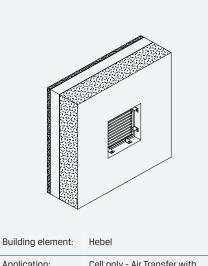
Alternative Fixing Methods









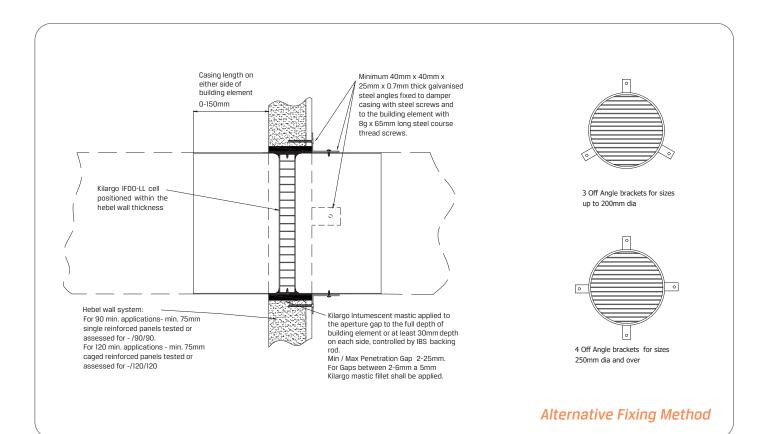


ballang cicilicit.	hesei
Application:	Cell only - Air Transfer with grilles or flat vermin proof mesh in 75SS hebel wall
Maximum size:	300 x 300 *without build up
FRL	-/120/120
Test reference No.	FAS200229

*Max size 1200 x 1200 if wall thickness is built up locally with 100mm wide FR plasterboard to a minimum thickness of 116mm

Note: To be read in conjunction with system WH3i (a)

System No. WH3i



Step 1	Position damper centrally in penetration aperture as per system drawing with IBS Backing Rod and packers
Step 2	Fasten mounting brackets to damper with steel self-drilling screws or steel pop rivets and to the building element with appropriate mechanical fixings as per system drawing
Step 3	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper & building element. Ensure fill depth corresponds with those detailed in the system drawing
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 5	Connect ductwork to the damper casing with AS1682.2 compliant breakaway joint

System Notes

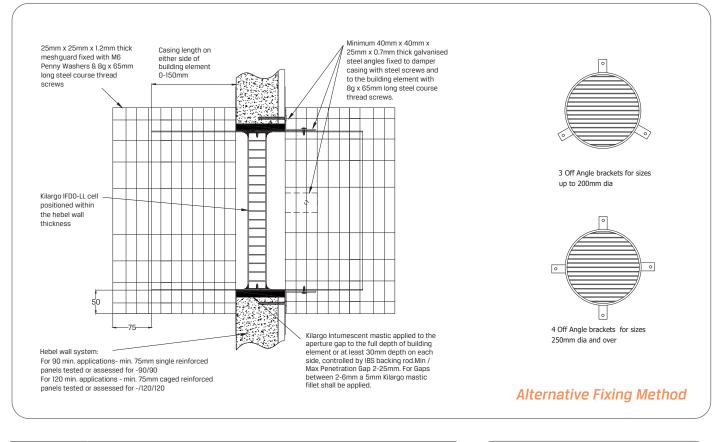
- Grilles, louvres, IBS backing rod & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-6mm, a fillet of Kilargo Intumescent Mastic shall be applied.



Building element: Hebel

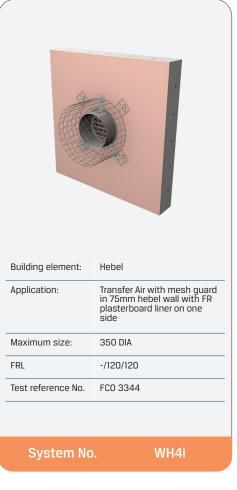
Application:	Ducted in 75mm hebel wall with FR plasterboard liner on one side
Maximum size:	350 DIA
FRL	-/120/120
Test reference No.	FC0 3344

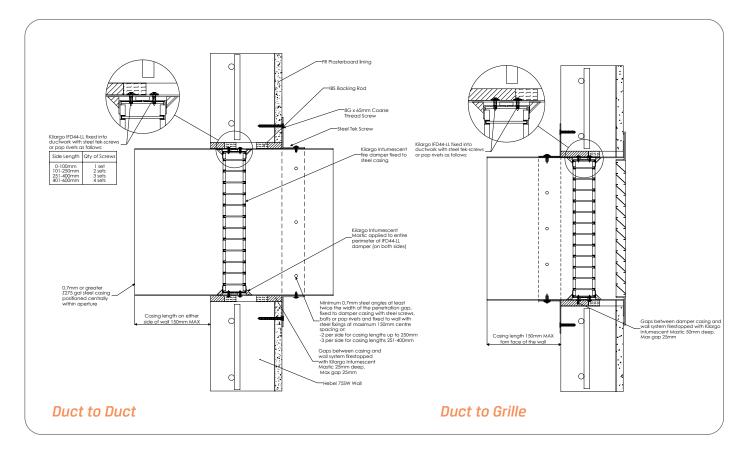
Air Transfer



Step 1	Position damper centrally in penetration aperture as per system drawing with IBS Backing Rod
Step 2	Fasten mounting brackets to damper with steel self-drilling screws or steel pop rivets and to the building element with appropriate mechanical fixings as per system drawing
Step 3	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper & building element. Ensure fill depth corresponds with those detailed in the system drawing
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 5	Fix $25 \times 25 \times 1.2$ mm thick mesh guards to each side of the building element with M6 penny washers & appropriate 8g x 65 fixings to suit as shown

- Mesh guards, IBS backing rod & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-6mm, a fillet of Kilargo Intumescent Mastic shall be applied.

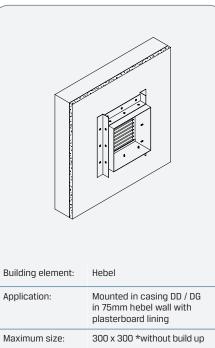




Step 1	Position damper centrally in penetration aperture as per system drawing with IBS Backing Rod and temporary supports or packers
Step 2	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper & building element. Ensure fill depth corresponds with those detailed in the system drawing
Step 3	Fasten mounting angles to damper with steel self-drilling screws or steel pop rivets and, if detailed, to the building element with appropriate mechanical fixings as per system drawing
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 5	Connect ductwork to the damper casing with AS1682.2 compliant breakaway joint

System Notes

- Grilles, louvres, IBS backing rod & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.



 Test reference No.
 FAS200229

 *Max size 1200 x 1200 if wall thickness is but

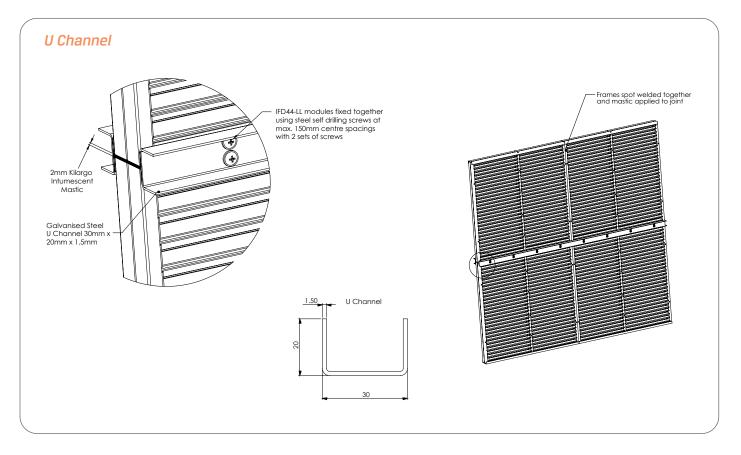
-/120/-

*Max size 1200 x 1200 if wall thickness is built up locally with 100mm wide FR plasterboard to a minimum thickness of 116mm

System No.

FRL

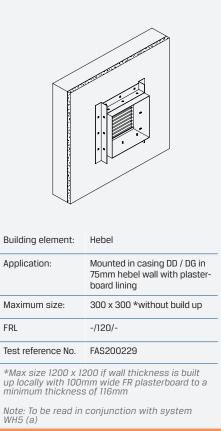
Ducted - Modular



Step 1	Apply Kilargo Intumescent Mastic to the opposing module	
Step 2	Align and bring modules together and mechanically fix together using U channels and steel self-drilling screws or steel pop rivets with 2 sets of screws at 150mm centres as per the modular system drawing on both sides	Total a
Step 3	Fix modular damper to aperture or casing as shown in the appropriate system drawing and installation instructions	

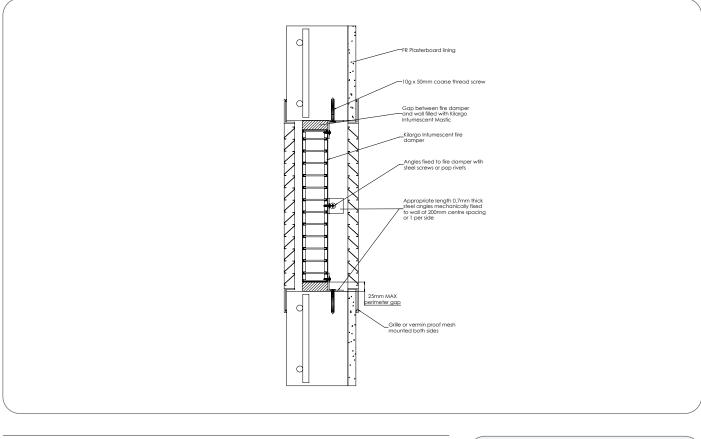
System Notes

- Fixings are to be supplied by others.
- Optional flat joining strips supplied at the time of order in lieu of U channel on request for air transfer systems only.



System No.

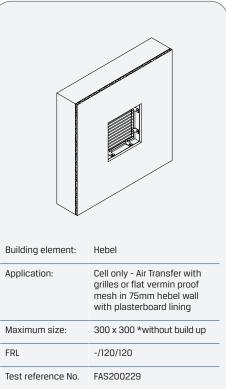
Air-Transfer



Step 1	Position damper centrally in penetration aperture as per system drawing with temporary supports or packers
Step 2	Fasten mounting angles or brackets to damper with steel self-drilling screws or steel pop rivets and to the building element with appropriate mechanical fixings as per system drawing
Step 3	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper & building element. Ensure fill depth corresponds with those detailed in the system drawing
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 5	Fix grilles, louvres or vermin proof mesh independently to each side of the building element

System Notes

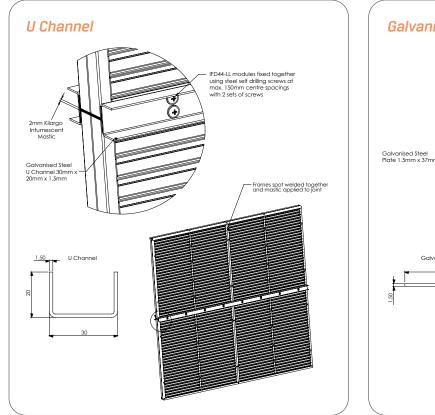
- Grilles, louvres, vermin proof mesh, angles, brackets & fixings are to be supplied by others.
- Grilles to be fixed independently to the building element and shall not be fixed to the fire damper.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.

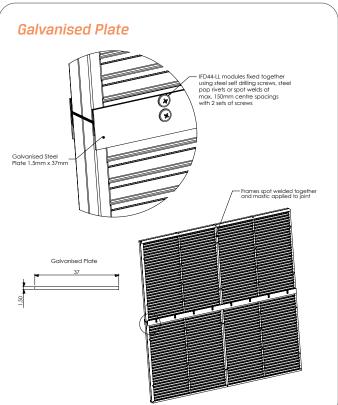


*Max size 1200 x 1200 if wall thickness is built up locally with 100mm wide FR plasterboard to a minimum thickness of 116mm

System No.

Air-Transfer - Modular



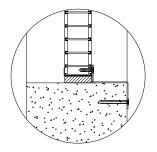


Step 1	Apply Kilargo Intumescent Mastic to the opposing module	
Step 2	Align and bring modules together and mechanically fix together using U channels and steel self-drilling screws or steel pop rivets with 2 sets of screws at 150mm centres as per the modular system drawing on both sides	
Step 3	Fix modular damper to aperture or casing as shown in the appropriate system drawing and installation instructions	

System Notes

- Fixings are to be supplied by others.
- Optional flat joining strips supplied at the time of order in lieu of U channel on request for air transfer systems only.

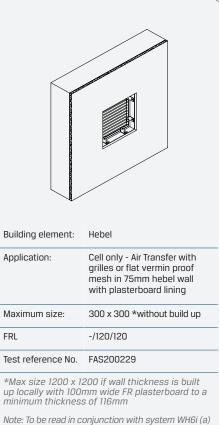
Alternative Fixing Methods



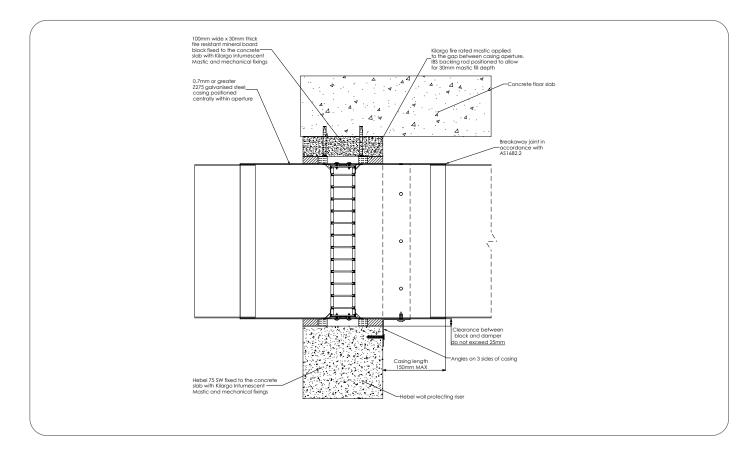
Z Bracket Fixing





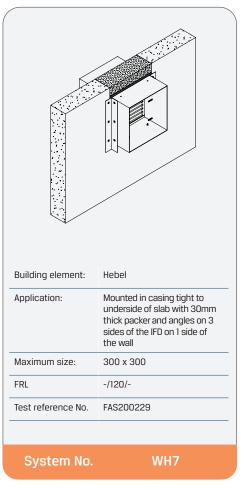


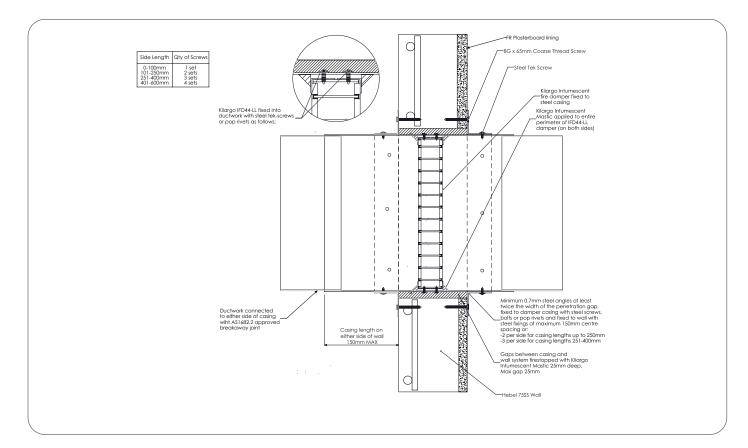
System No. WH6i (b)



Step 1	Measure and cut 100mm wide x 30mm thick fire-resistant mineral board packer (supplied by others) to match the damper width	
Step 2	Mechanically fix 100mm wide x 30mm thick fire-resistant mineral board packer to concrete slab, with Kilargo Intumescent Mastic in between, and steel anchors as per system drawings	
Step 3	Position damper centrally in penetration aperture as per system drawing with IBS Backing Rod and temporary supports or packers	
Step 4	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper & building element. Ensure fill depth corresponds with those detailed in the system drawing	
Step 5	Fasten mounting angles to damper with steel self-drilling screws or steel pop rivets and, if detailed, to the building element with appropriate mechanical fixings as per system drawing	
Step 6	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections	
Step 7	Connect ductwork to the damper casing with AS1682.2 compliant breakaway joint	

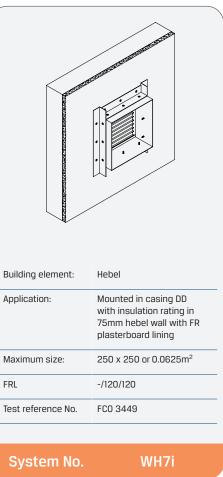
- Fire-resistant mineral board packer, IBS backing rod & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.



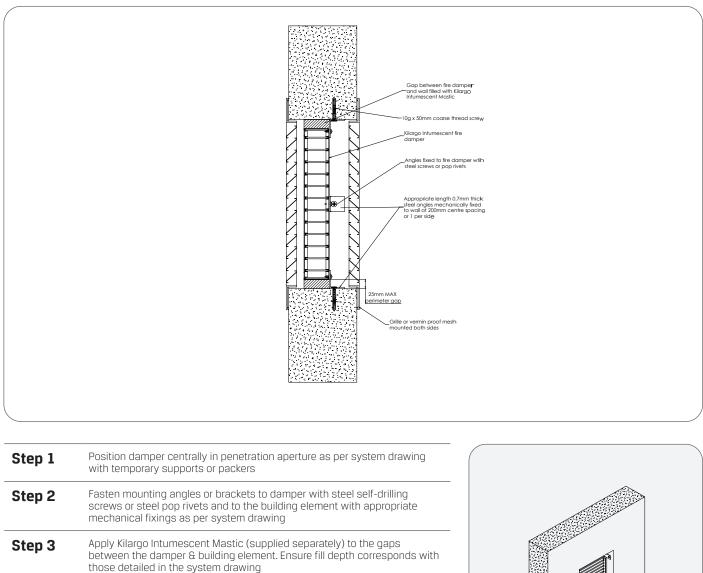


Step 1	Position damper centrally in penetration aperture as per system drawing with IBS Backing Rod and temporary supports or packers.	
Step 2 Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper & building element. Ensure fill depth corresponds wit those detailed in the system drawing.		
Step 3	Fasten mounting angles to damper with steel self-drilling screws or steel pop rivets and, if detailed, to the building element with appropriate mechanical fixings as per system drawing.	
Step 4 Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections.		
Step 5Connect ductwork to the damper casing with AS 1682.2 compliant breakaway joint.		

- IBS backing rod & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2
- Ensure convenient access is provided for visual inspection and cleaning as necessary
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied



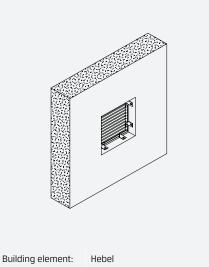
Air-Transfer



Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 5	Fix grilles, louvres or vermin proof mesh independently to each side of the building element

System Notes

- Grilles, louvres, vermin proof mesh, angles, brackets & fixings are to be supplied by others.
- Grilles to be fixed independently to the building element and shall not be fixed to the fire damper.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.

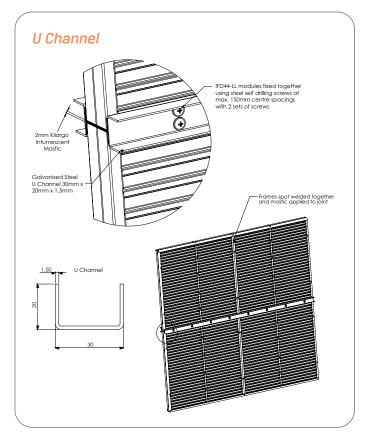


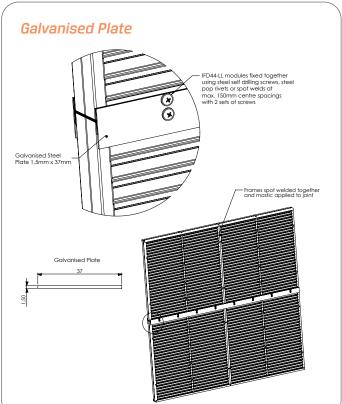
Application:	Cell only - Air Transfer with grilles or flat vermin proof mesh in 75SW hebel wall	
Maximum size:	300 x 300 *without build up	
FRL	-/120/120	
Test reference No.	FAS200229	

*Max size 1200 x 1200 if wall thickness is built up locally with 100mm wide FR plasterboard to a minimum thickness of 116mm

System No.

Air-Transfer - Modular



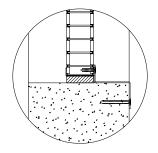


Step 1	Apply Kilargo Intumescent Mastic to the opposing module	
Step 2	Align and bring modules together and mechanically fix together using U channels and steel self-drilling screws or steel pop rivets with 2 sets of screws at 150mm centres as per the modular system drawing on both sides	
Step 3	Fix modular damper to aperture or casing as shown in the appropriate system drawing and installation instructions	

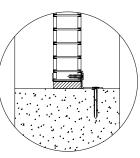
System Notes

- Fixings are to be supplied by others.
- Optional flat joining strips supplied at the time of order in lieu of U channel on request for air transfer systems only.

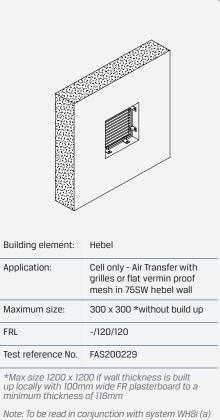
Alternative Fixing Methods



Z Bracket Fixing







System No. WH8i (b)

Casing length on either side of Minimum 40mm x 40mm x 25mm x 0.7mm thick galvanised steel angles fixed to damper building element 0-150mm casing with steel screws and to the building element with 8g x 65mm long steel course thread screws. Kilargo IFDO-LL cell 3 Off Angle brackets for sizes positioned within the hebel wall thickness up to 200mm dia 0 0 0 Clearance left for visibility of damper angle fixing Kilargo Intumescent mastic applied to the aperture gap to the full depth of building element or at least 30mm depth on each side, controlled by IBS backing rod. Min / Max Penetration Gap 2-25mm. For Gaps between 2-6mm a 5mm Kilargo mastic fillet Hebel wall system: For 90 min. applications- min. 75mm single reinforced panels tested or shall be applied. 4 Off Angle brackets for sizes assessed for - /90/90. For 120 min. applications - min. 75mm 250mm dia and over caged reinforced panels tested or assessed for -/120/120 Plasterboard on top hats

Alternative Fixing Method

Step 1	Position damper centrally in penetration aperture as per system drawing with IBS Backing Rod and packers
Step 2 Fasten mounting brackets to damper with steel self-drilling screws or step op rivets and to the building element with appropriate mechanical fixing as per system drawing	
Step 3	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper & building element. Ensure fill depth corresponds with those detailed in the system drawing
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 5	Connect ductwork to the damper casing with AS1682.2 compliant breakaway joint

System Notes

- Grilles, louvres, IBS backing rod & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-6mm, a fillet of Kilargo Intumescent Mastic shall be applied.



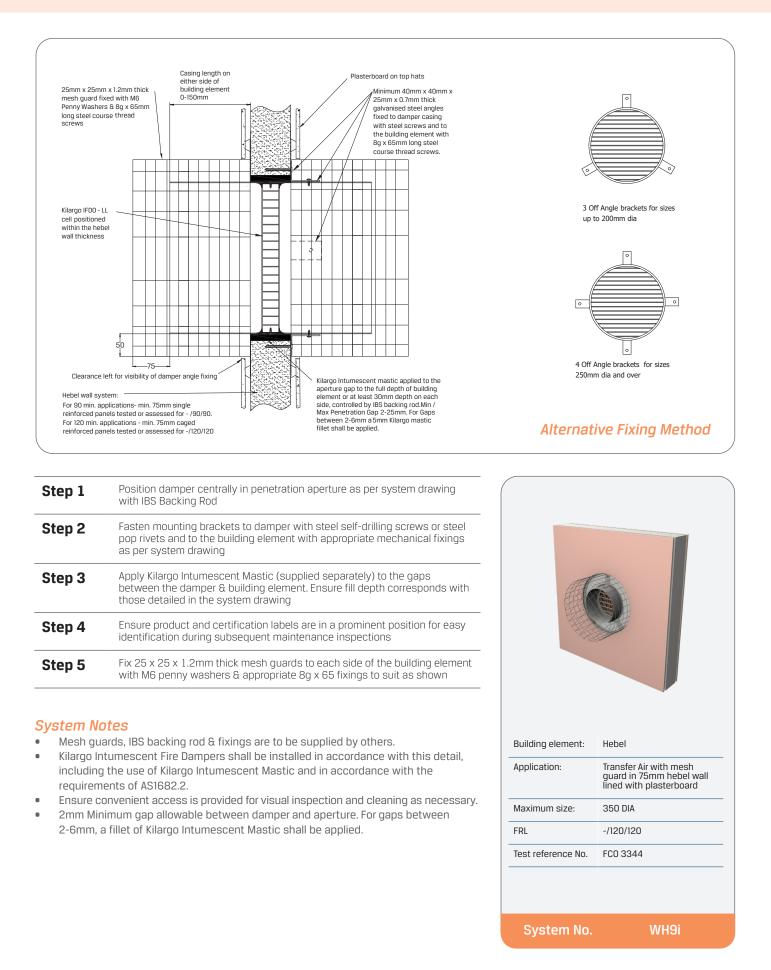
Building element: Hebel

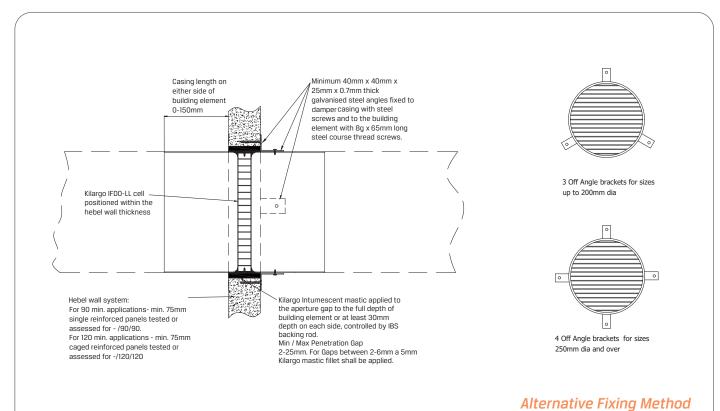
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Application:	Ducted in 75 hebel wall lined with plasterboard	
Maximum size:	350 DIA	
FRL	-/120/120	
Test reference No.	FC0 3344	

Air Transfer





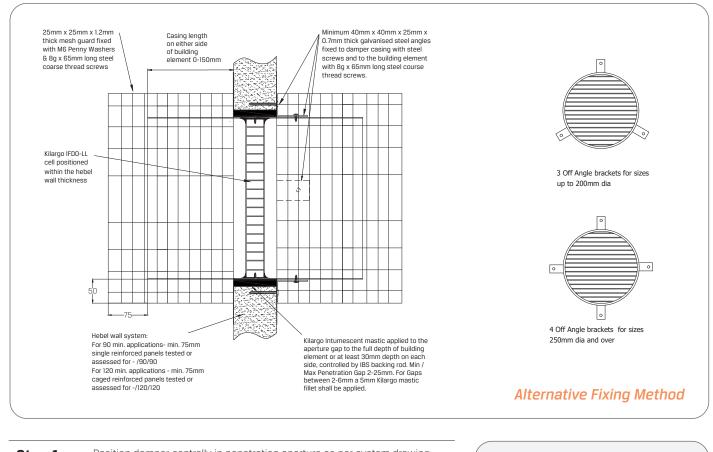
Step 1	Position damper centrally in penetration aperture as per system drawing with IBS Backing Rod and packers	
Step 2	Step 2Fasten mounting brackets to damper with steel self-drilling screws or step pop rivets and to the building element with appropriate mechanical fixin as per system drawing	
Step 3	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper & building element. Ensure fill depth corresponds with those detailed in the system drawing $% f(x) = 0$	
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections	
Step 5	Connect ductwork to the damper casing with AS1682.2 compliant breakaway joint	

- Grilles, louvres, IBS backing rod & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-6mm, a fillet of Kilargo Intumescent Mastic shall be applied.



Building element:	Hebel
Application:	Ducted in 75 hebel wall
Maximum size:	350 DIA
FRL	-/120/120
Test reference No.	FC0 3344

Air Transfer



Step 1	Position damper centrally in penetration aperture as per system drawing with IBS Backing Rod
Step 2	Fasten mounting brackets to damper with steel self-drilling screws or steel pop rivets and to the building element with appropriate mechanical fixings as per system drawing
Step 3	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper & building element. Ensure fill depth corresponds with those detailed in the system drawing
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 5	Fix 25 x 25 x 1.2mm thick mesh guards to each side of the building element with M6 penny washers & appropriate $8g \times 65$ fixings to suit as shown

System Notes

- Mesh guards, IBS backing rod & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-6mm, a fillet of Kilargo Intumescent Mastic shall be applied.



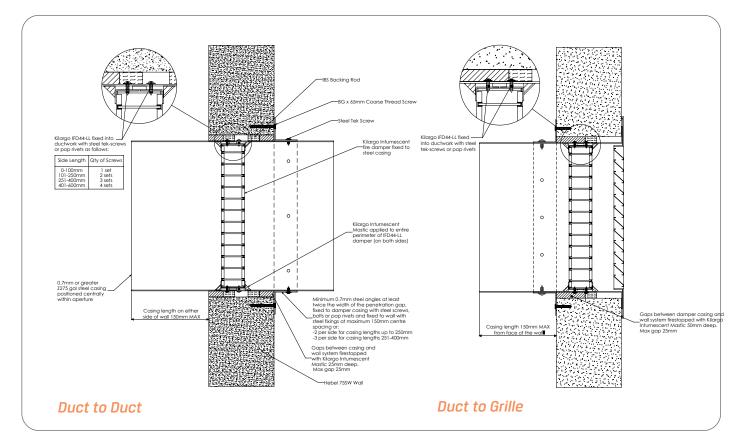
 Building element:
 Hebel

 Application:
 Transfer Air with mesh guard in 75mm hebel wall

 Maximum size:
 350 DIA

 FRL
 -/120/120

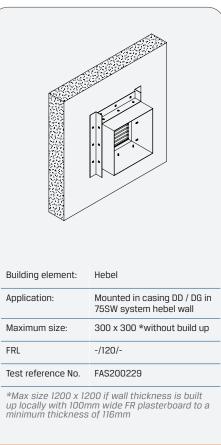
 Test reference No.
 FC0 3344



Step 1	Position damper centrally in penetration aperture as per system drawing with IBS Backing Rod and temporary supports or packers	
Step 2	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper & building element. Ensure fill depth corresponds with those detailed in the system drawing	
Step 3	Fasten mounting angles to damper with steel self-drilling screws or steel pop rivets and, if detailed, to the building element with appropriate mechanical fixings as per system drawing	
Step 4Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections		
Step 5	Connect ductwork to the damper casing with AS1682.2 compliant breakaway joint	

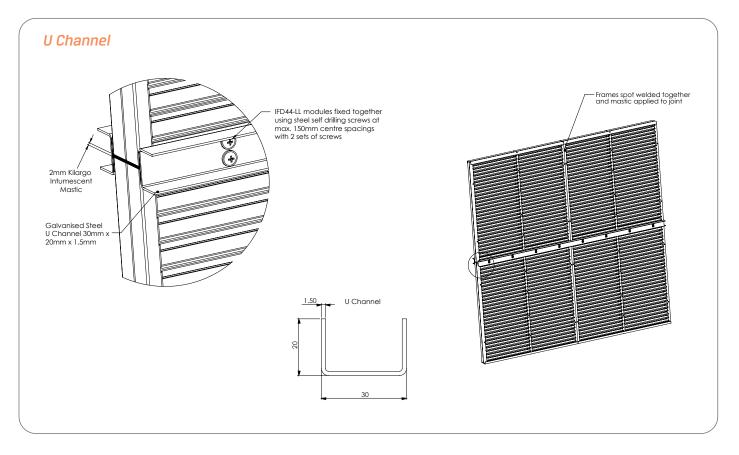
System Notes

- Grilles, louvres, IBS backing rod & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.



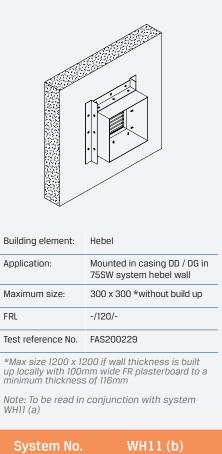
System No. WH11 (a

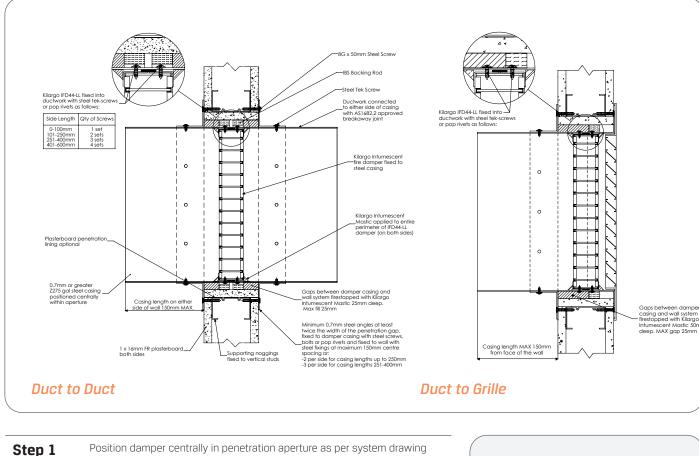
Ducted - Modular



Step 1	Apply Kilargo Intumescent Mastic to the opposing module	
Step 2	Align and bring modules together and mechanically fix together using U channels and steel self-drilling screws or steel pop rivets with 2 sets of screws at 150mm centres as per the modular system drawing on both sides	
Step 3	Fix modular damper to aperture or casing as shown in the appropriate system drawing and installation instructions	

- Fixings are to be supplied by others.
- Optional flat joining strips supplied at the time of order in lieu of U channel on request for air transfer systems only.

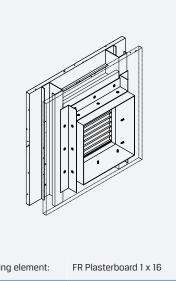




otep	with IBS Backing Rod and temporary supports or packers	
Step 2	2 Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper & building element. Ensure fill depth corresponds with those detailed in the system drawing	
Step	Fasten mounting angles to damper with steel self-drilling screws or steel pop rivets and, if detailed, to the building element with appropriate mechanical fixings as per system drawing	
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections	
Step	5 Connect ductwork to the damper casing with AS1682.2 compliant breakaway joint	

System Notes

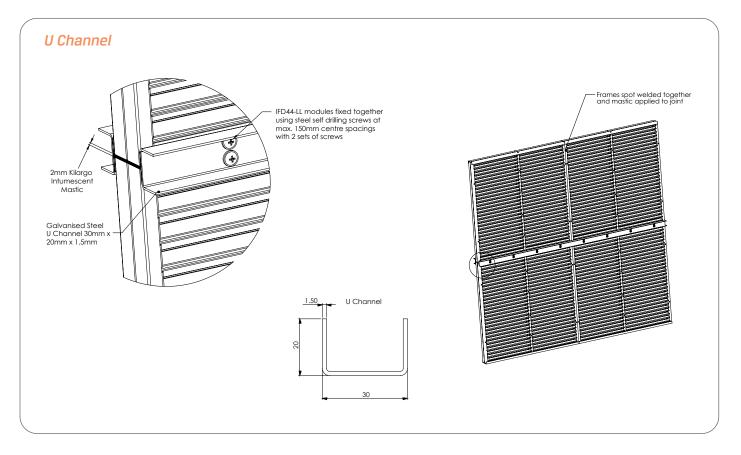
- Grilles, louvres, IBS backing rod & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.



Building element:	FR Plasterboard 1 x 16
Application:	Mounted in casing DD / DG
Maximum size:	300 x 300 *without build up
FRL	-/90/-
Test reference No.	FAS200229

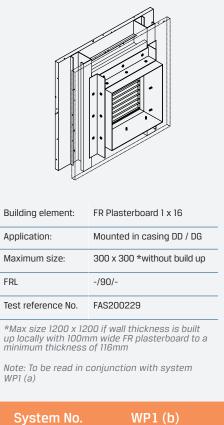
*Max size 1200 x 1200 if wall thickness is built up locally with 100mm wide FR plasterboard to a minimum thickness of 116mm

Ducted - Modular

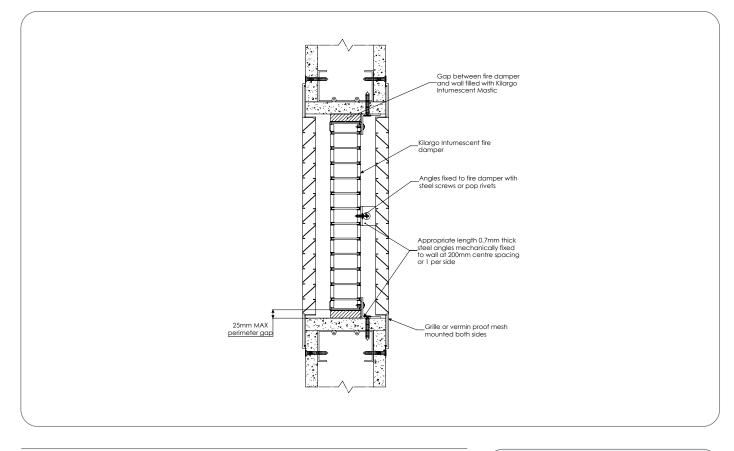


Step 1	Apply Kilargo Intumescent Mastic to the opposing module
Step 2	Align and bring modules together and mechanically fix together using U channels and steel self-drilling screws or steel pop rivets with 2 sets of screws at 150mm centres as per the modular system drawing on both sides
Step 3	Fix modular damper to aperture or casing as shown in the appropriate system drawing and installation instructions

- Fixings are to be supplied by others.
- Optional flat joining strips supplied at the time of order in lieu of U channel on request for air transfer systems only.



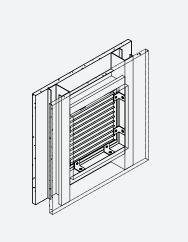
Air-Transfer



Step 1	Position damper centrally in penetration aperture as per system drawing with temporary supports or packers
Step 2	Fasten mounting angles or brackets to damper with steel self-drilling screws or steel pop rivets and to the building element with appropriate mechanical fixings as per system drawing
Step 3	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper & building element. Ensure fill depth corresponds with those detailed in the system drawing $% f(x) = 0$
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 5	Fix grilles, louvres or vermin proof mesh independently to each side of the building element

System Notes

- Grilles, louvres, vermin proof mesh, angles, brackets & fixings are to be supplied by others.
- Grilles to be fixed independently to the building element and shall not be fixed to the fire damper.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.

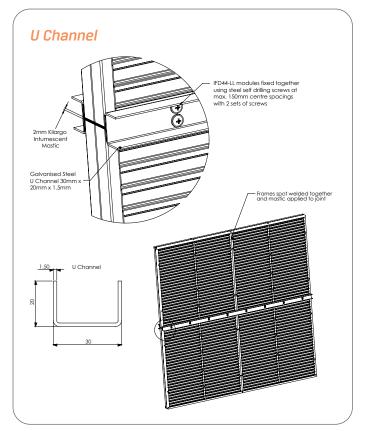


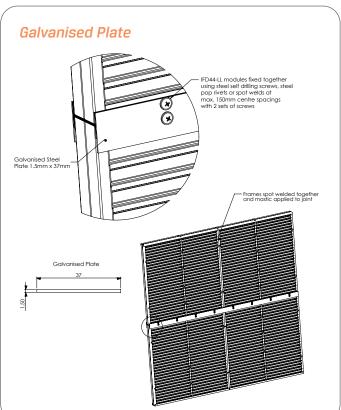
Building element:	FR Plasterboard 1 x 16
Application:	Cell only - Air Transfer with grilles or flat vermin proof mesh
Maximum size:	300 x 300 *without build up
FRL	-/90/90
Test reference No.	FAS200229

*Max size 1200 x 1200 if wall thickness is built up locally with 100mm wide FR plasterboard to a minimum thickness of 116mm

System No.

Air-Transfer - Modular



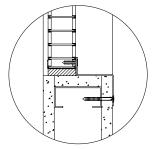


Step 1	Apply Kilargo Intumescent Mastic to the opposing module
Step 2	Align and bring modules together and mechanically fix together using U channels and steel self-drilling screws or steel pop rivets with 2 sets of screws at 150mm centres as per the modular system drawing on both sides
Step 3	Fix modular damper to aperture or casing as shown in the appropriate system drawing and installation instructions

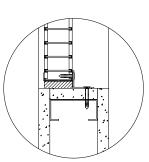
System Notes

- Fixings are to be supplied by others.
- Optional flat joining strips supplied at the time of order in lieu of U channel on request for air transfer systems only.

Alternative Fixing Methods

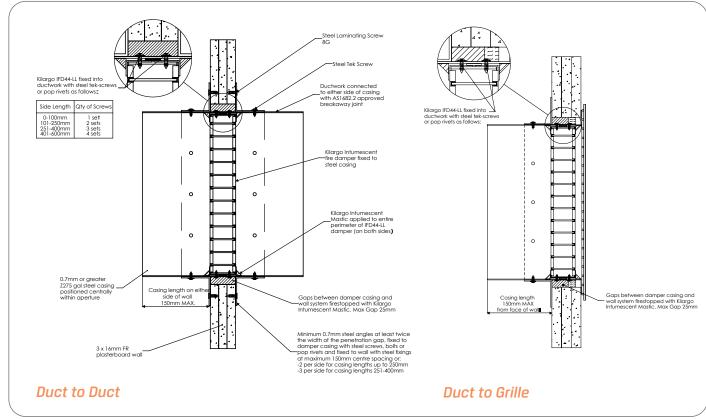


Z Bracket Fixing



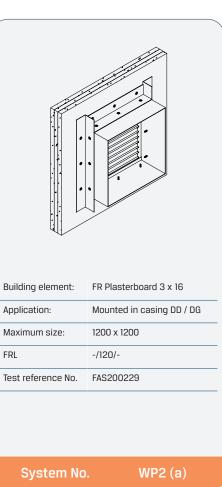
Angle Fixing

Building element:	FR Plasterboard 1 x 16	
Application:	Cell only - Air Transfer with grilles or flat vermin proof mesh	
Maximum size:	300 x 300 *without build up	
FRL	-/90/90	
Test reference No.	FAS200229	
*Max size 1200 x 1200 if wall thickness is built up locally with 100mm wide FR plasterboard to a minimum thickness of 116mm Note: To be read in conjunction with system WPIi (a)		
System No.	WP1i(b)	

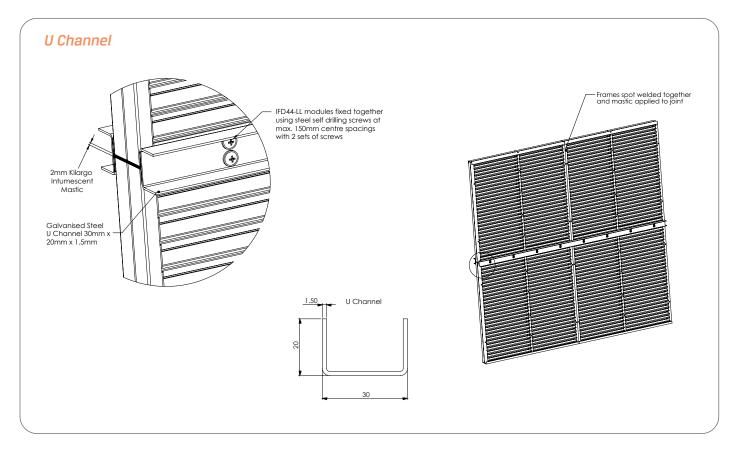


Step 1	Position damper centrally in penetration aperture as per system drawing with IBS Backing Rod and temporary supports or packers
Step 2	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper & building element. Ensure fill depth corresponds with those detailed in the system drawing
Step 3	Fasten mounting angles to damper with steel self-drilling screws or steel pop rivets and, if detailed, to the building element with appropriate mechanical fixings as per system drawing
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 5	Connect ductwork to the damper casing with AS1682.2 compliant breakaway joint

- Grilles, louvres, IBS backing rod & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.

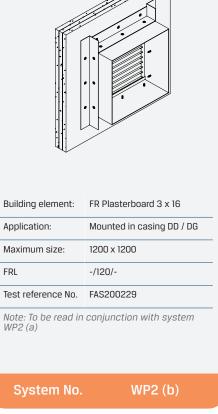


Ducted - Modular

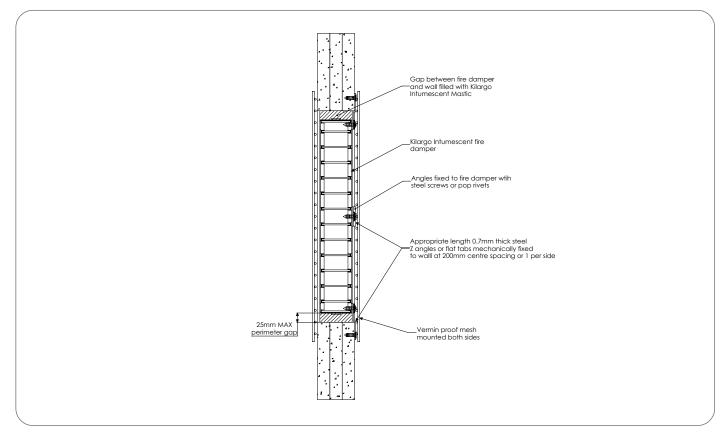


Step 1	Apply Kilargo Intumescent Mastic to the opposing module	
Step 2	Align and bring modules together and mechanically fix together using U channels and steel self-drilling screws or steel pop rivets with 2 sets of screws at 150mm centres as per the modular system drawing on both sides	
Step 3	Fix modular damper to aperture or casing as shown in the appropriate system drawing and installation instructions	
		· -

- Fixings are to be supplied by others.
- Optional flat joining strips supplied at the time of order in lieu of U channel on request for air transfer systems only.

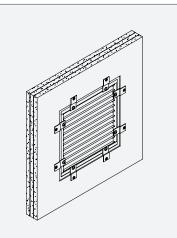


Air-Transfer



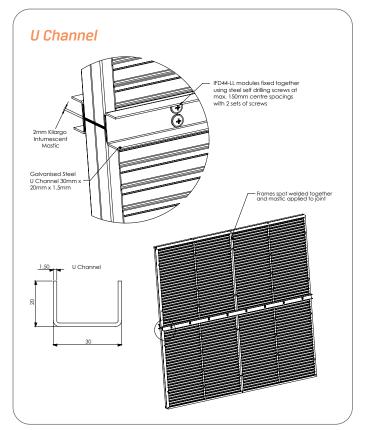
Step 1	Position damper centrally in penetration aperture as per system drawing with temporary supports or packers
Step 2	Fasten mounting angles or brackets to damper with steel self-drilling screws or steel pop rivets and to the building element with appropriate mechanical fixings as per system drawing
Step 3	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper & building element. Ensure fill depth corresponds with those detailed in the system drawing
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 5	Fix grilles, louvres or vermin proof mesh independently to each side of the building element

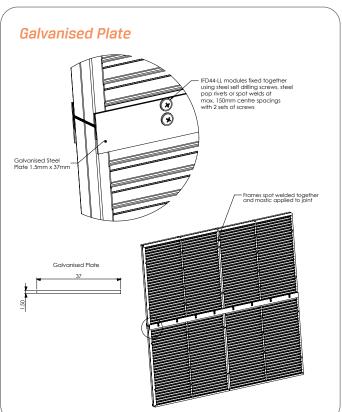
- Grilles, louvres, vermin proof mesh, angles, brackets & fixings are to be supplied by others.
- Grilles to be fixed independently to the building element and shall not be fixed to the fire damper.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.



Building element:	FR Plasterboard 3 x 16
Application:	Cell only - Air Transfer with grilles or flat vermin proof mesh
Maximum size:	1200 x 1200
FRL	-/120/120
Test reference No.	FAS200229

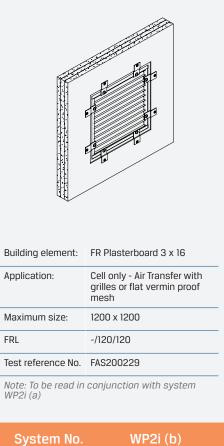
Air-Transfer - Modular

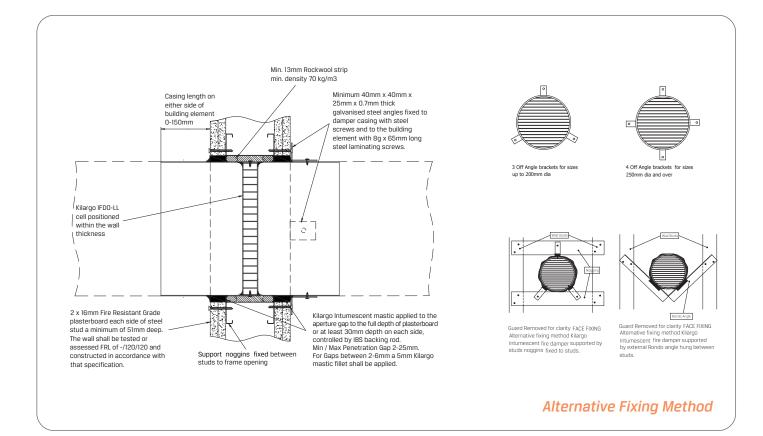




Step 1	Apply Kilargo Intumescent Mastic to the opposing module	
Step 2	Align and bring modules together and mechanically fix together using U channels and steel self-drilling screws or steel pop rivets with 2 sets of screws at 150mm centres as per the modular system drawing on both sides	
Step 3	Fix modular damper to aperture or casing as shown in the appropriate system drawing and installation instructions	

- Fixings are to be supplied by others.
- Optional flat joining strips supplied at the time of order in lieu of U channel on request for air transfer systems only.





Step 1	Position damper centrally in penetration aperture as per system drawing with IBS Backing Rod and packers
Step 2	Fasten mounting brackets to damper with steel self-drilling screws or steel pop rivets and to the building element with appropriate mechanical fixings as per system drawing
Step 3	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper & building element. Ensure fill depth corresponds with those detailed in the system drawing
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 5	Connect ductwork to the damper casing with AS1682.2 compliant breakaway joint

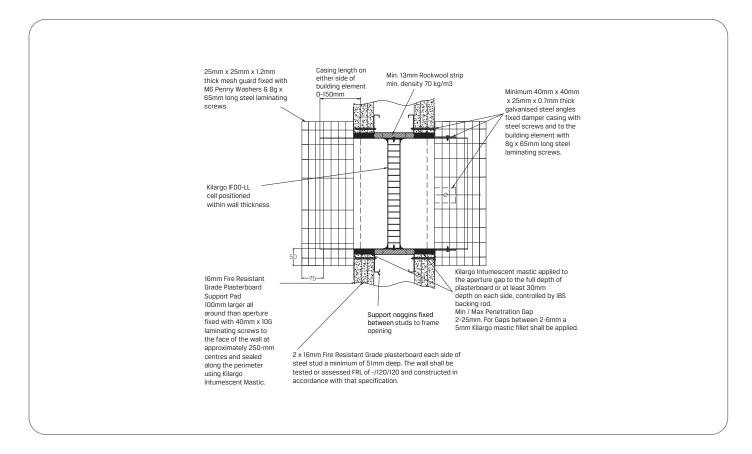
System Notes

- Grilles, louvres, IBS backing rod & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-6mm, a fillet of Kilargo Intumescent Mastic shall be applied.



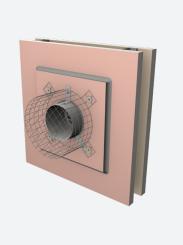
Building element:	FR Plasterboard 2 x 16
Application:	Ducted
Maximum size:	350 DIA
FRL	-/120/120
Test reference No.	FC0 3344

Air Transfer



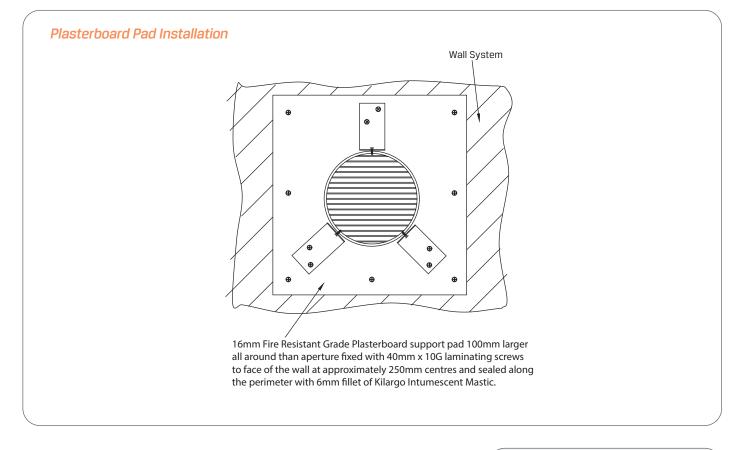
Step 1	Fix additional plasterboard pads to each side of wall and apply Kilargo Intumescent Mastic to the edges as per system drawing
Step 2	Position damper centrally in penetration aperture as per system drawing with 70kg/m3 rockwool
Step 3	Fasten mounting brackets to damper with steel self-drilling screws or steel pop rivets and to the building element with appropriate mechanical fixings as per system drawing
Step 4	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper & building element. Ensure fill depth corresponds with those detailed in the system drawing
Step 5	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 6	Fix $25 \times 25 \times 1.2$ mm thick mesh guards to each side of the building element with M6 penny washers & appropriate 8g x 65 fixings to suit as shown

- Mesh guards, additional plasterboard pads, rockwool & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-6mm, a fillet of Kilargo Intumescent Mastic shall be applied.



Building element:	FR Plasterboard 2 x 16 + 1
Application:	Transfer Air with mesh guard
Maximum size:	350 DIA
FRL	-/120/120
Test reference No.	FC0 3344
System No.	WP3i

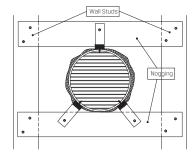
Air Transfer



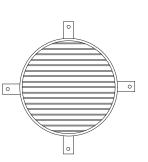
Alternative Fixing Method



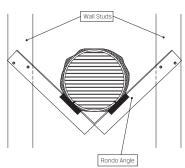
3 Off Angle brackets for sizes up to 200mm dia



Guard Removed for clarity FACE FIXING Alternative fixing method Kilargo Intumescent fire damper supported by studs noggins fixed to studs.



4 Off Angle brackets for sizes 250mm dia and over

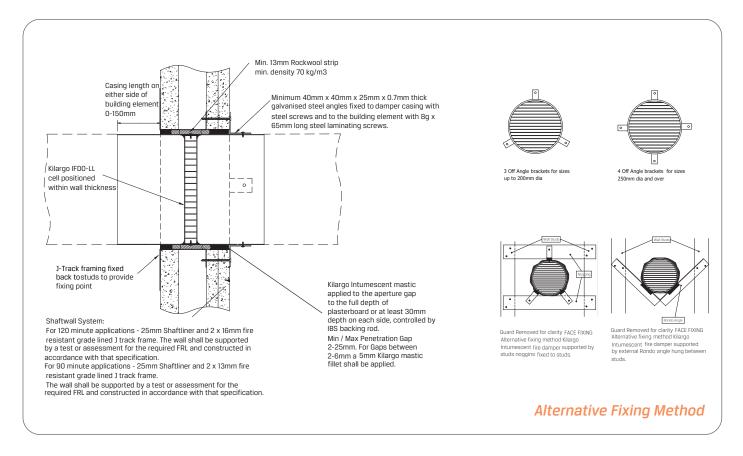


Guard Removed for clarity FACE FIXING Alternative fixing method Kilargo Intumescent fire damper supported by external Rondo angle hung between studs.



Building element:	FR Plasterboard 2 x 16 + 1
Application:	Transfer Air with mesh guard
Maximum size:	350 DIA
FRL	-/120/120
Test reference No.	FC0 3344
System No	. WP3i

Ducted



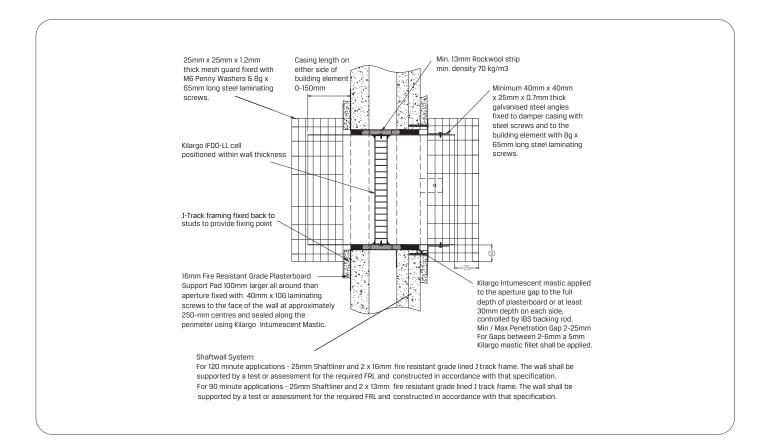
Step 1	Position damper centrally in penetration aperture as per system drawing with IBS Backing Rod and packers
Step 2	Fasten mounting brackets to damper with steel self-drilling screws or steel pop rivets and to the building element with appropriate mechanical fixings as per system drawing
Step 3	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper & building element. Ensure fill depth corresponds with those detailed in the system drawing
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 5	Connect ductwork to the damper casing with AS1682.2 compliant breakaway joint

- Grilles, louvres, IBS backing rod & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, . including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary. .
- 2mm Minimum gap allowable between damper and aperture. For gaps between . 2-6mm, a fillet of Kilargo Intumescent Mastic shall be applied.



Building element:	FR Plasterboard 25 + 2
Application:	Ducted
Maximum size:	350 DIA
FRL	-/120/120
Test reference No.	FC0 3344
System No.	WP4

Air Transfer



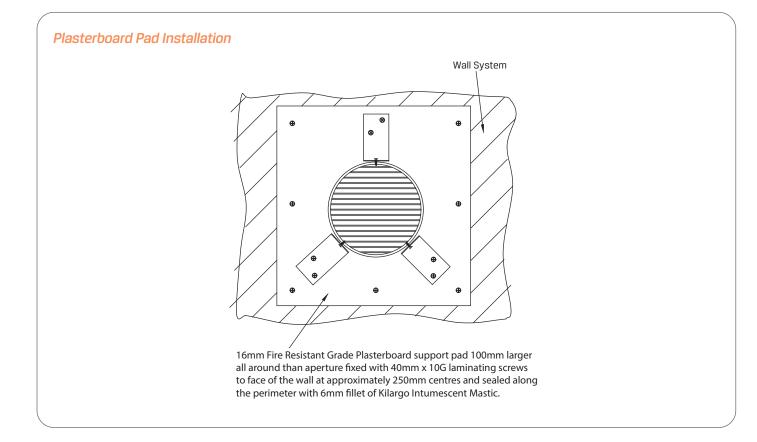
Step 1	Fix additional plasterboard pads to each side of wall and apply Kilargo Intumescent Mastic to the edges as per system drawing
Step 2	Position damper centrally in penetration aperture as per system drawing with 70kg/m3 rockwool
Step 3	Fasten mounting brackets to damper with steel self-drilling screws or steel pop rivets and to the building element with appropriate mechanical fixings as per system drawing
Step 4	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper & building element. Ensure fill depth corresponds with those detailed in the system drawing
Step 5	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 6	Fix $25 \times 25 \times 1.2$ mm thick mesh guards to each side of the building element with M6 penny washers & appropriate 8g x 65 fixings to suit as shown

- Mesh guards, additional plasterboard pads, rockwool & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-6mm, a fillet of Kilargo Intumescent Mastic shall be applied.



Building element:	FR Plasterboard 25 + 2 + 1
Application:	Transfer Air with mesh guard
Maximum size:	350 DIA
FRL	-/120/120
Test reference No.	FC0 3344
System No	. WP4i

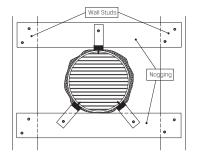
Air Transfer



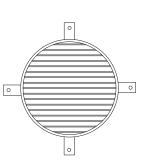
Alternative Fixing Method



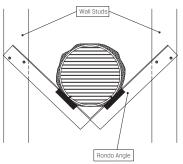
3 Off Angle brackets for sizes up to 200mm dia



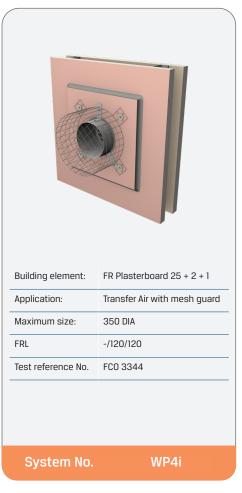
Guard Removed for clarity FACE FIXING Alternative fixing method Kilargo Intumescent fire damper supported by studs noggins fixed to studs.



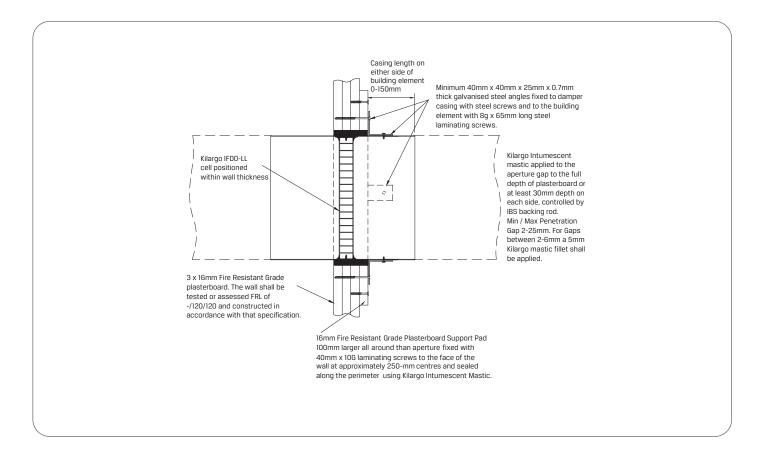
4 Off Angle brackets for sizes 250mm dia and over



Guard Removed for clarity FACE FIXING Alternative fixing method Kilargo Intumescent fire damper supported by external Rondo angle hung between studs.



Ducted



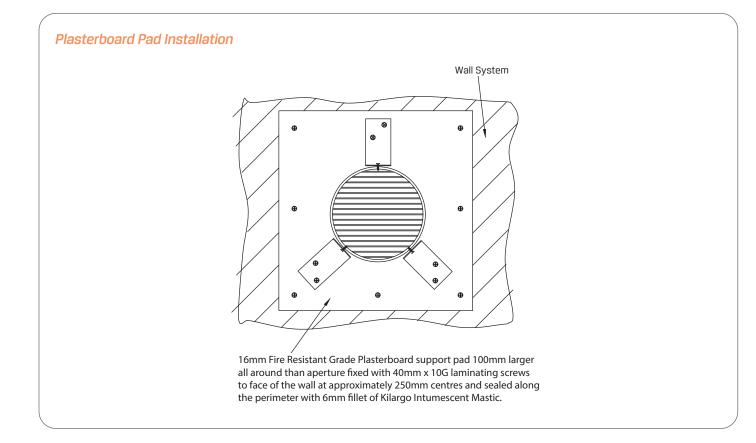
Step 1	Position damper centrally in penetration aperture as per system drawing with IBS Backing Rod and packers
Step 2	Fasten mounting brackets to damper with steel self-drilling screws or steel pop rivets and to the building element with appropriate mechanical fixings as per system drawing
Step 3	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper & building element. Ensure fill depth corresponds with those detailed in the system drawing
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 5	Connect ductwork to the damper casing with AS1682.2 compliant breakaway joint

- Mesh guards, additional plasterboard pads, rockwool & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-6mm, a fillet of Kilargo Intumescent Mastic shall be applied.



Building element:	FR Plasterboard 3 x 16 + 1
Application:	Ducted
Maximum size:	350 DIA
FRL	-/120/120
Test reference No.	FC0 3344

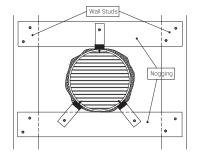
Air Transfer



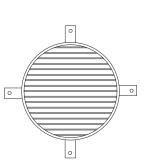
Alternative Fixing Method



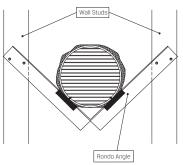
3 Off Angle brackets for sizes up to 200mm dia



Guard Removed for clarity FACE FIXING Alternative fixing method Kilargo Intumescent fire damper supported by studs noggins fixed to studs.



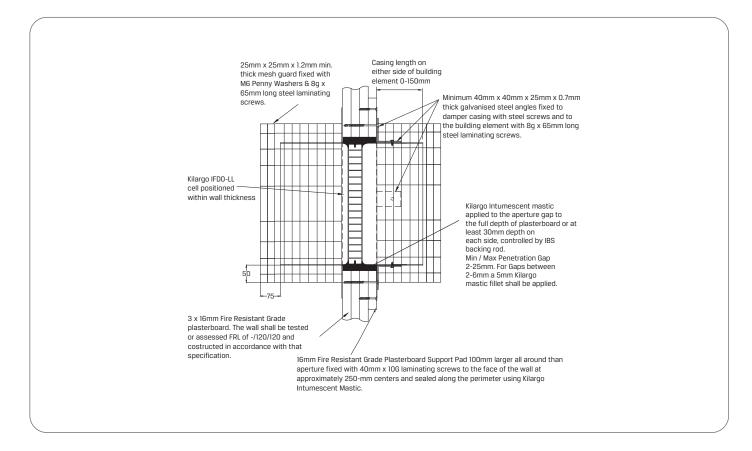
4 Off Angle brackets for sizes 250mm dia and over



Guard Removed for clarity FACE FIXING Alternative fixing method Kilargo Intumescent fire damper supported by external Rondo angle hung between studs.



Air Transfer



Step 1	Fix additional plasterboard pads to each side of wall and apply Kilargo Intumescent Mastic to the edges as per system drawing
Step 2	Position damper centrally in penetration aperture as per system drawing with 70kg/m3 rockwool
Step 3	Fasten mounting brackets to damper with steel self-drilling screws or steel pop rivets and to the building element with appropriate mechanical fixings as per system drawing
Step 4	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper & building element. Ensure fill depth corresponds with those detailed in the system drawing
Step 5	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 6	Fix $25 \times 25 \times 1.2$ mm thick mesh guards to each side of the building element with M6 penny washers & appropriate $8g \times 65$ fixings to suit as shown

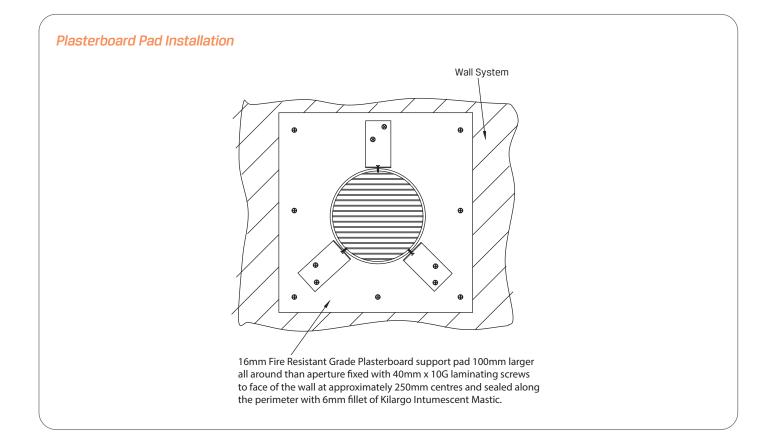
System Notes

- Mesh guards, additional plasterboard pads, rockwool & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-6mm, a fillet of Kilargo Intumescent Mastic shall be applied.



Building element:	FR Plasterboard 3 x 16 + 1
Application:	Transfer Air with mesh guard
Maximum size:	350 DIA
FRL	-/120/120
Test reference No.	FC0 3344

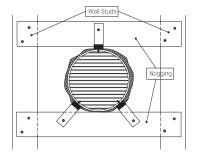
Air Transfer



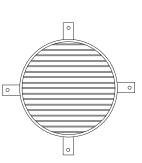
Alternative Fixing Method



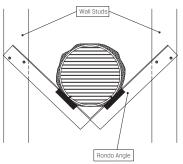
3 Off Angle brackets for sizes up to 200mm dia



Guard Removed for clarity FACE FIXING Alternative fixing method Kilargo Intumescent fire damper supported by studs noggins fixed to studs.

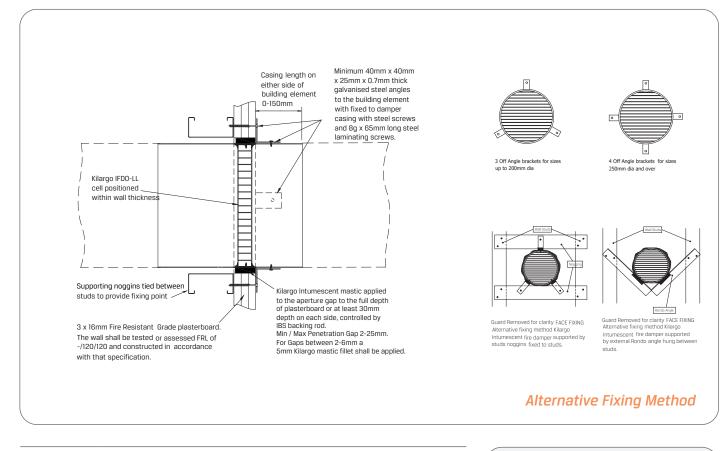


4 Off Angle brackets for sizes 250mm dia and over



Guard Removed for clarity FACE FIXING Alternative fixing method Kilargo Intumescent fire damper supported by external Rondo angle hung between studs.



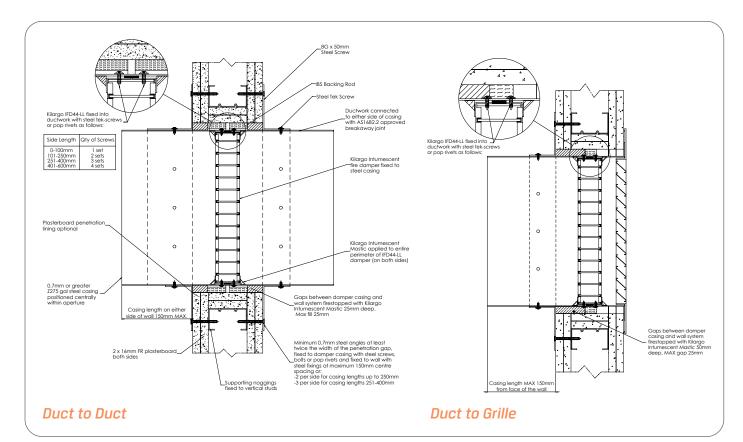


Step 1	Position damper centrally in penetration aperture as per system drawing with IBS Backing Rod and packers
Step 2	Fasten mounting brackets to damper with steel self-drilling screws or steel pop rivets and to the building element with appropriate mechanical fixings as per system drawing
Step 3	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper & building element. Ensure fill depth corresponds with those detailed in the system drawing $% f(x) = 0$
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 5	Connect ductwork to the damper casing with AS1682.2 compliant breakaway joint

- Grilles, louvres, IBS backing rod & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-6mm, a fillet of Kilargo Intumescent Mastic shall be applied.

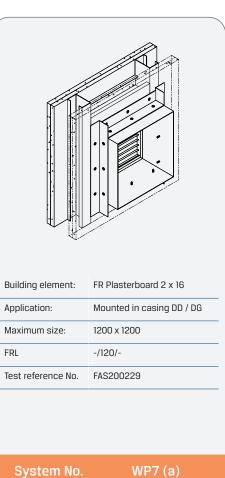


Building element:	FR Plasterboard 3 x 16
Application:	Ducted
Maximum size:	350 DIA
FRL	-/120/120
Test reference No.	FC0 3344

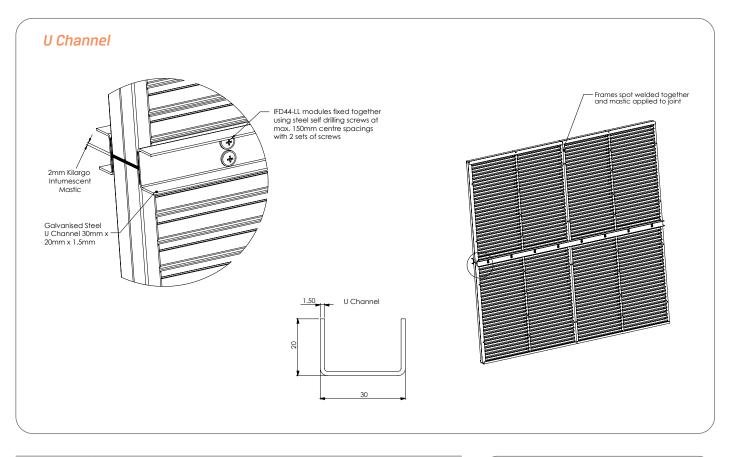


Step 1	Position damper centrally in penetration aperture as per system drawing with IBS Backing Rod and temporary supports or packers
Step 2	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper & building element. Ensure fill depth corresponds with those detailed in the system drawing
Step 3	Fasten mounting angles to damper with steel self-drilling screws or steel pop rivets and, if detailed, to the building element with appropriate mechanical fixings as per system drawing
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 5	Connect ductwork to the damper casing with AS1682.2 compliant breakaway joint

- Grilles, louvres, IBS backing rod & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.

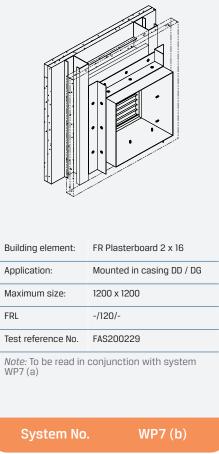


Ducted - Modular

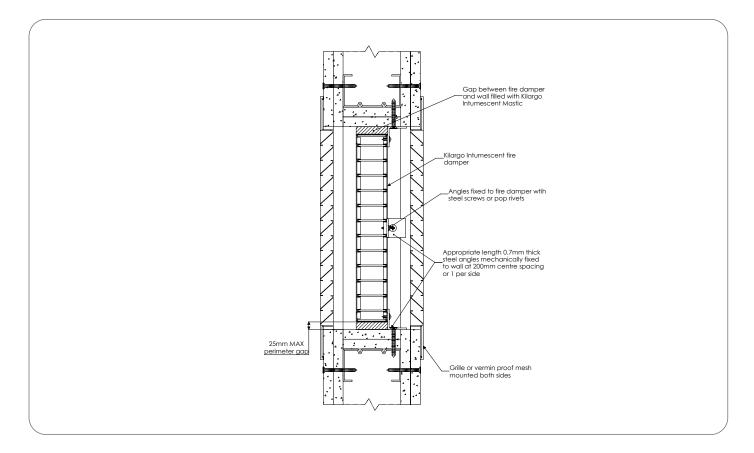


Step 1 Apply Kilargo Intumescent Mastic to the opposing module	
Step 2 Align and bring modules together and mechanically fix together using channels and steel self-drilling screws or steel pop rivets with 2 sets screws at 150mm centres as per the modular system drawing on bot	s of
Step 3 Fix modular damper to aperture or casing as shown in the appropria system drawing and installation instructions	iate

- Fixings are to be supplied by others.
- Optional flat joining strips supplied at the time of order in lieu of U channel on request for air transfer systems only.

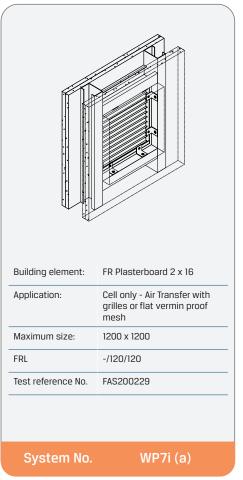


Air-Transfer

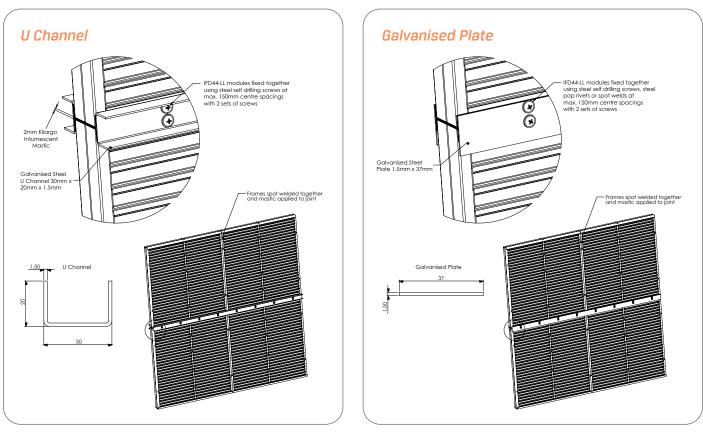


Step 1	Position damper centrally in penetration aperture as per system drawing with temporary supports or packers
Step 2	Fasten mounting angles or brackets to damper with steel self-drilling screws or steel pop rivets and to the building element with appropriate mechanical fixings as per system drawing
Step 3	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper & building element. Ensure fill depth corresponds with those detailed in the system drawing
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 5	Fix grilles, louvres or vermin proof mesh independently to each side of the building element

- Grilles, louvres, vermin proof mesh, angles, brackets & fixings are to be supplied by others.
- Grilles to be fixed independently to the building element and shall not be fixed to the fire damper.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.



Air-Transfer - Modular

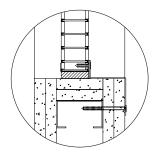


Step 1	Apply Kilargo Intumescent Mastic to the opposing module
Step 2	Align and bring modules together and mechanically fix together using U channels and steel self-drilling screws or steel pop rivets with 2 sets of screws at 150mm centres as per the modular system drawing on both sides
Step 3	Fix modular damper to aperture or casing as shown in the appropriate system drawing and installation instructions

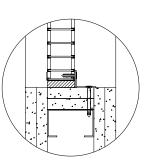
System Notes

- Fixings are to be supplied by others.
- Optional flat joining strips supplied at the time of order in lieu of U channel on request for air transfer systems only.

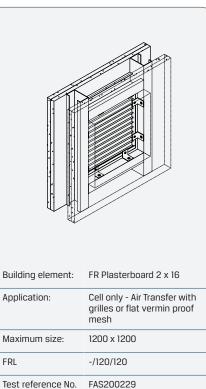
Alternative Fixing Methods



Z Bracket Fixing

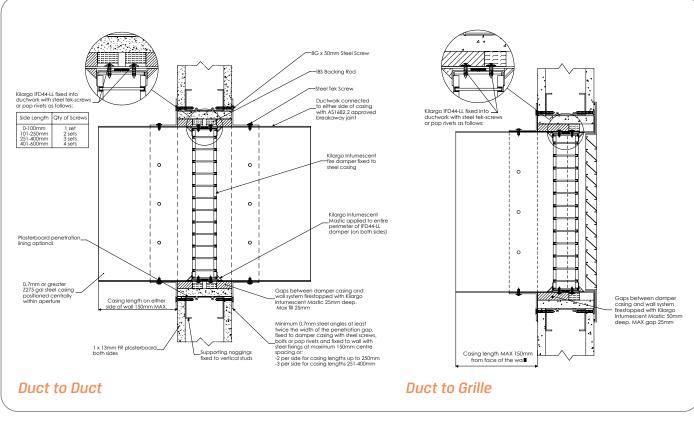






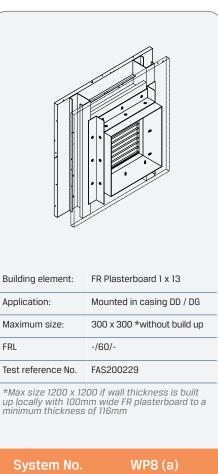
Note: To be read in conjunction with system WP7i (a)



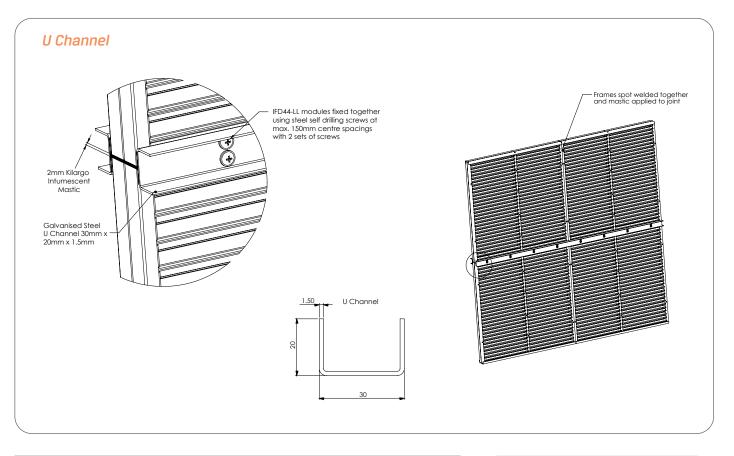


Step 1	Position damper centrally in penetration aperture as per system drawing with IBS Backing Rod and temporary supports or packers
Step 2	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper & building element. Ensure fill depth corresponds with those detailed in the system drawing
Step 3	Fasten mounting angles to damper with steel self-drilling screws or steel pop rivets and, if detailed, to the building element with appropriate mechanical fixings as per system drawing
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 5	Connect ductwork to the damper casing with AS1682.2 compliant breakaway joint

- Grilles, louvres, IBS backing rod & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.

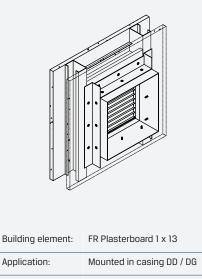


Ducted - Modular



System Notes

- Fixings are to be supplied by others.
- Optional flat joining strips supplied at the time of order in lieu of U channel on request for air transfer systems only.

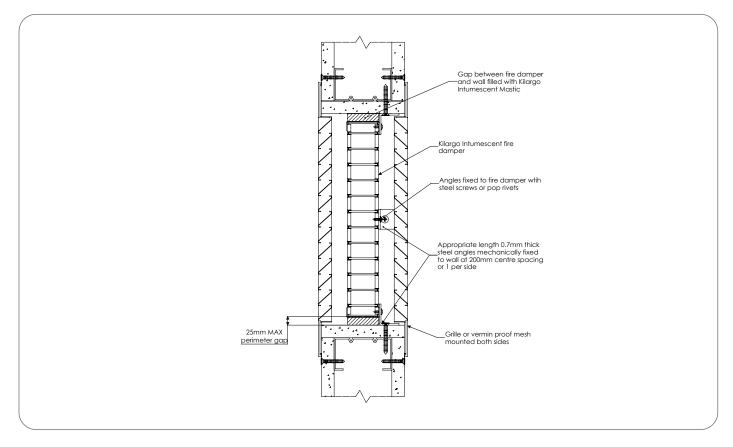


Building element:	FR Plasterboard TX 13
Application:	Mounted in casing DD / DG
Maximum size:	300 x 300 *without build up
FRL	-/60/-
Test reference No.	FAS200229

*Max size 1200 x 1200 if wall thickness is built up locally with 100mm wide FR plasterboard to a minimum thickness of 116mm

Note: To be read in conjunction with system WP8 (a)

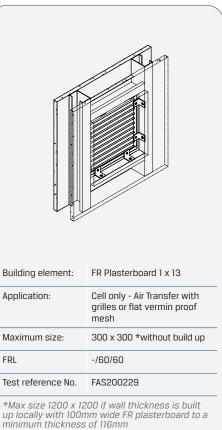
Air-Transfer



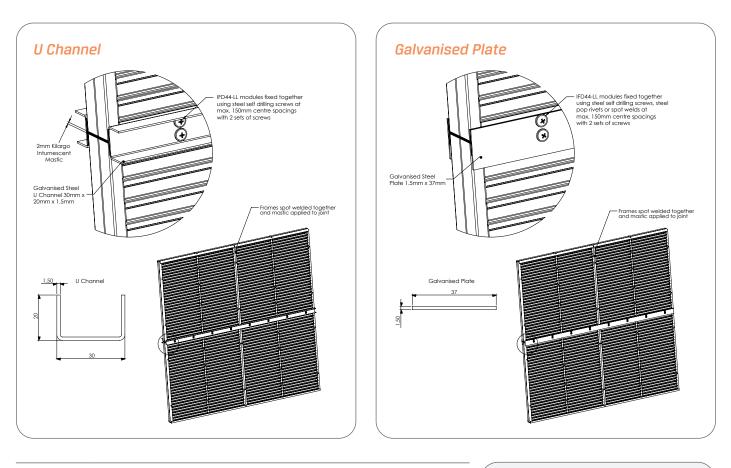
Step 1	Position damper centrally in penetration aperture as per system drawing with temporary supports or packers
Step 2	Fasten mounting angles or brackets to damper with steel self-drilling screws or steel pop rivets and to the building element with appropriate mechanical fixings as per system drawing
Step 3	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper & building element. Ensure fill depth corresponds with those detailed in the system drawing
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 5	Fix grilles, louvres or vermin proof mesh independently to each side of the building element

System Notes

- Grilles, louvres, vermin proof mesh, angles, brackets & fixings are to be supplied by others.
- Grilles to be fixed independently to the building element and shall not be fixed to the fire damper.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.



Air-Transfer - Modular

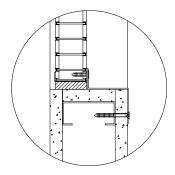


Step 1	Apply Kilargo Intumescent Mastic to the opposing module	
Step 2	Align and bring modules together and mechanically fix together using U channels and steel self-drilling screws or steel pop rivets with 2 sets of screws at 150mm centres as per the modular system drawing on both sides	
Step 3	Fix modular damper to aperture or casing as shown in the appropriate system drawing and installation instructions	

System Notes

- Fixings are to be supplied by others.
- Optional flat joining strips supplied at the time of order in lieu of U channel on request for air transfer systems only.

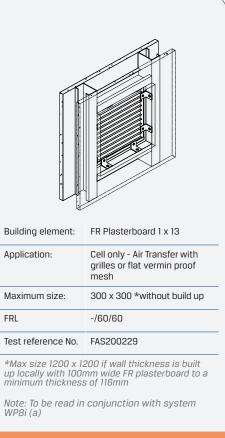
Alternative Fixing Methods

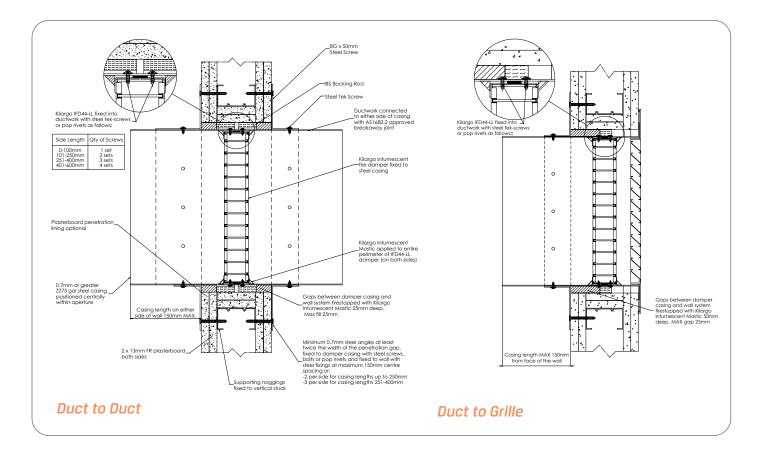


Z Bracket Fixing



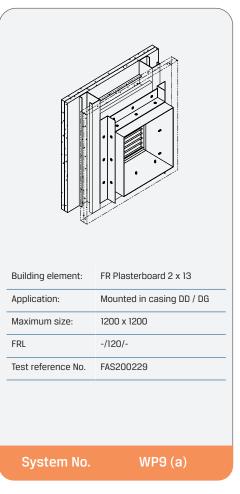
Angle Fixing



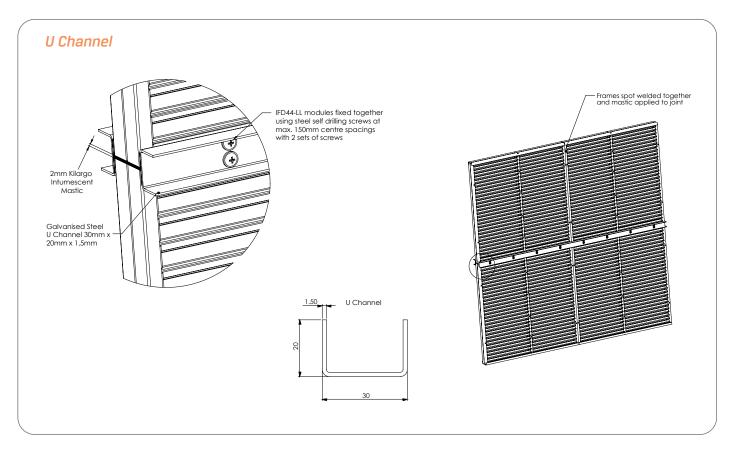


Step 1	Position damper centrally in penetration aperture as per system drawing with IBS Backing Rod and temporary supports or packers
Step 2	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper & building element. Ensure fill depth corresponds with those detailed in the system drawing
Step 3	Fasten mounting angles to damper with steel self-drilling screws or steel pop rivets and, if detailed, to the building element with appropriate mechanical fixings as per system drawing
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 5	Connect ductwork to the damper casing with AS1682.2 compliant breakaway joint

- Grilles, louvres, IBS backing rod & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.



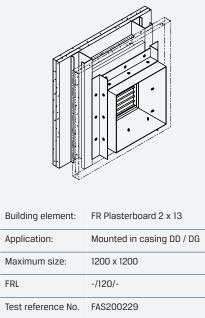
Ducted - Modular



Step 1	Apply Kilargo Intumescent Mastic to the opposing module
Step 2	Align and bring modules together and mechanically fix together using U channels and steel self-drilling screws or steel pop rivets with 2 sets of screws at 150mm centres as per the modular system drawing on both sides
Step 3	Fix modular damper to aperture or casing as shown in the appropriate system drawing and installation instructions

System Notes

- Fixings are to be supplied by others. .
- Optional flat joining strips supplied at the time of order in lieu of U channel on request . for air transfer systems only.

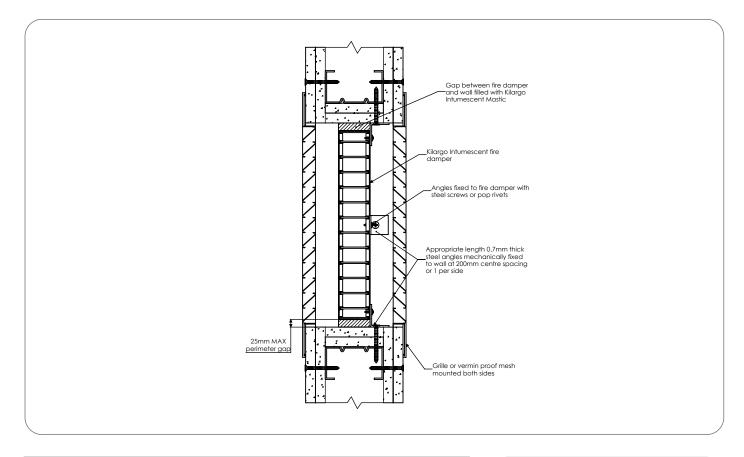


Note: To be read in conjunction with system WP9 (a)

System No.

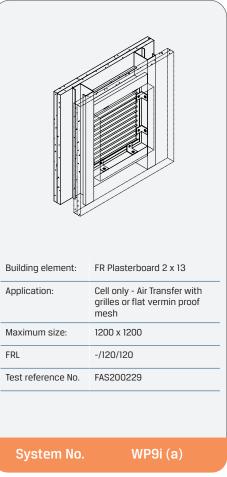
FRL

Air-Transfer

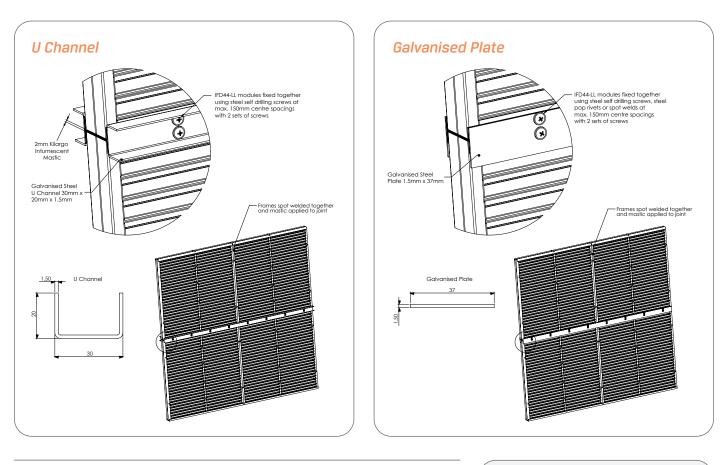


Step 1	Position damper centrally in penetration aperture as per system drawing with temporary supports or packers
Step 2	Fasten mounting angles or brackets to damper with steel self-drilling screws or steel pop rivets and to the building element with appropriate mechanical fixings as per system drawing
Step 3	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper & building element. Ensure fill depth corresponds with those detailed in the system drawing
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 5	Fix grilles, louvres or vermin proof mesh independently to each side of the building element

- Grilles, louvres, vermin proof mesh, angles, brackets & fixings are to be supplied by others.
- Grilles to be fixed independently to the building element and shall not be fixed to the fire damper.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.



Air-Transfer - Modular

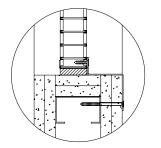


Step 1	Apply Kilargo Intumescent Mastic to the opposing module	
Step 2	Align and bring modules together and mechanically fix together using U channels and steel self-drilling screws or steel pop rivets with 2 sets of screws at 150mm centres as per the modular system drawing on both sides	
Step 3	Fix modular damper to aperture or casing as shown in the appropriate system drawing and installation instructions	

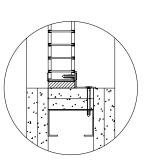
System Notes

- Fixings are to be supplied by others.
- Optional flat joining strips supplied at the time of order in lieu of U channel on request for air transfer systems only.

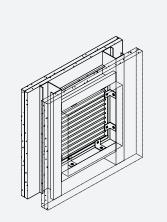
Alternative Fixing Methods



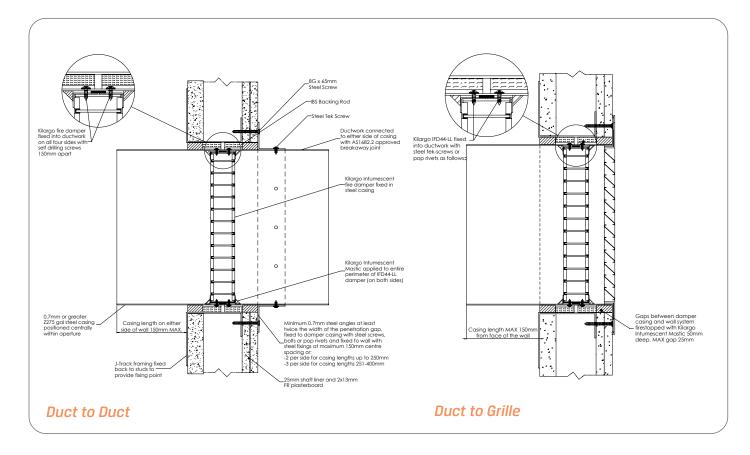
Z Bracket Fixing



Angle Fixing



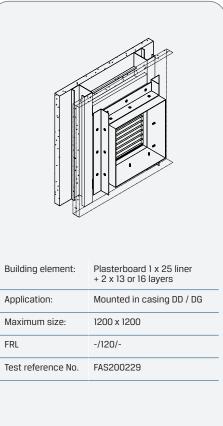
Building element:	FR Plasterboard 2 x 13	
Application:	Cell only - Air Transfer with grilles or flat vermin proof mesh	
Maximum size:	1200 x 1200	
FRL	-/120/120	
Test reference No.	FAS200229	
Note: To be read in conjunction with system WP9i (a)		
System No	o. WP9i (b)	



Step 1	Position damper centrally in penetration aperture as per system drawing with IBS Backing Rod and temporary supports or packers
Step 2	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper & building element. Ensure fill depth corresponds with those detailed in the system drawing
Step 3	Fasten mounting angles to damper with steel self-drilling screws or steel pop rivets and, if detailed, to the building element with appropriate mechanical fixings as per system drawing
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 5	Connect ductwork to the damper casing with AS1682.2 compliant breakaway joint

System Notes

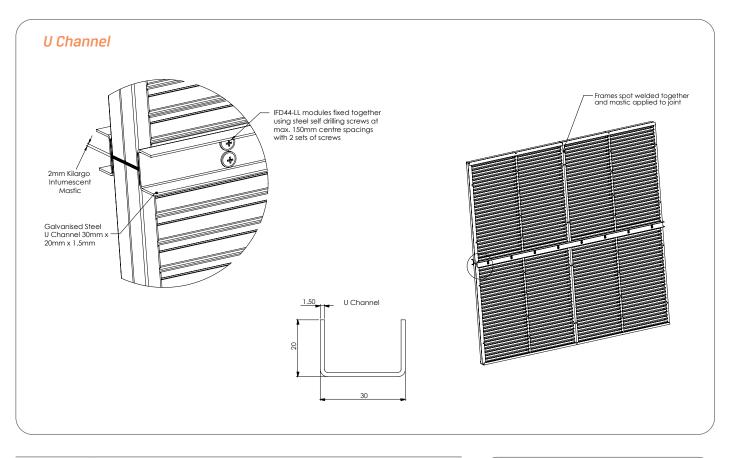
- Grilles, louvres, IBS backing rod & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.



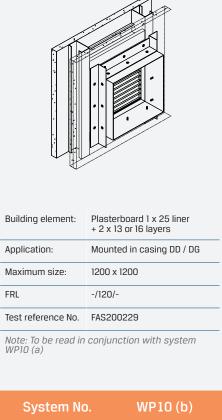
System No.

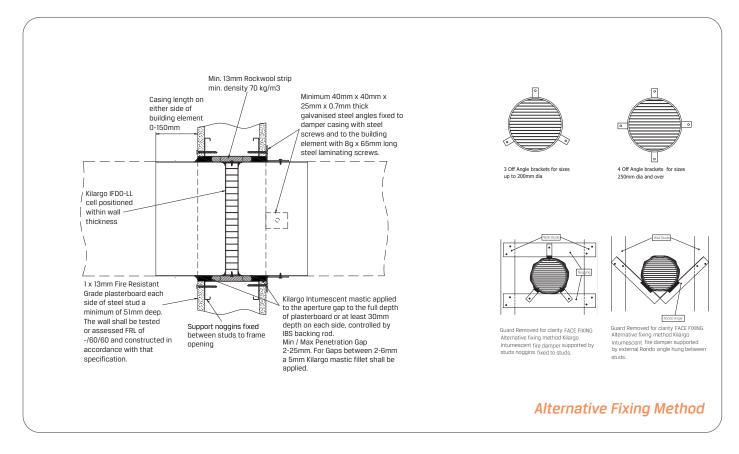
WPIU (a)

Ducted - Modular



- Fixings are to be supplied by others.
- Optional flat joining strips supplied at the time of order in lieu of U channel on request for air transfer systems only.





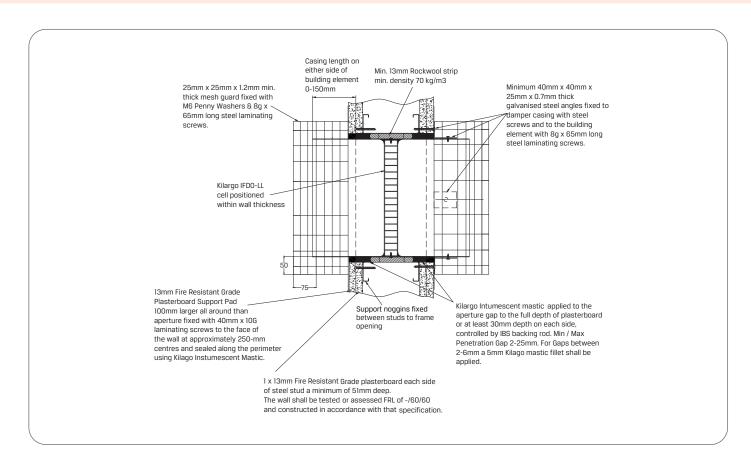
Step 1	Position damper centrally in penetration aperture as per system drawing with IBS Backing Rod and packers
Step 2	Fasten mounting brackets to damper with steel self-drilling screws or steel pop rivets and to the building element with appropriate mechanical fixings as per system drawing
Step 3	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper & building element. Ensure fill depth corresponds with those detailed in the system drawing $\$
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 5	Connect ductwork to the damper casing with AS1682.2 compliant breakaway joint

- Grilles, louvres, IBS backing rod & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-6mm, a fillet of Kilargo Intumescent Mastic shall be applied.



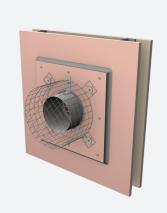
Building element:	FR Plasterboard 1 x 13
Application:	Ducted
Maximum size:	350 DIA
FRL	-/60/60
Test reference No.	FC0 3344
System No.	WP12

Air Transfer



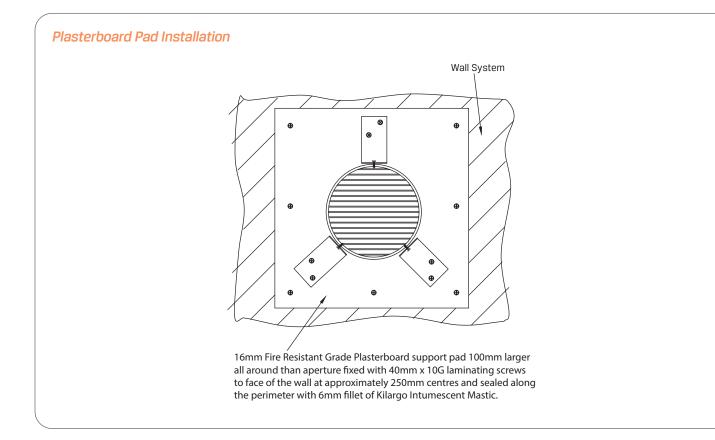
Step 1	Fix additional plasterboard pads to each side of wall and apply Kilargo Intumescent Mastic to the edges as per system drawing
Step 2	Position damper centrally in penetration aperture as per system drawing with 70kg/m3 rockwool
Step 3	Fasten mounting brackets to damper with steel self-drilling screws or steel pop rivets and to the building element with appropriate mechanical fixings as per system drawing
Step 4	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper & building element. Ensure fill depth corresponds with those detailed in the system drawing
Step 5	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 6	Fix $25 \times 25 \times 1.2$ mm thick mesh guards to each side of the building element with M6 penny washers & appropriate 8g x 65 fixings to suit as shown

- Mesh guards, additional plasterboard pads, rockwool & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-6mm, a fillet of Kilargo Intumescent Mastic shall be applied.



Building element:	FR Plasterboard 1 x 13
Application:	Transfer Air with mesh guard
Maximum size:	350 DIA
FRL	-/60/60
Test reference No.	FC0 3344

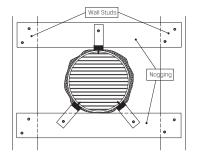
Air Transfer



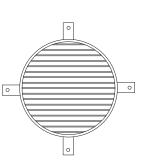
Alternative Fixing Method



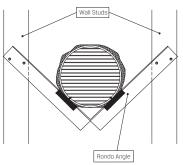
3 Off Angle brackets for sizes up to 200mm dia



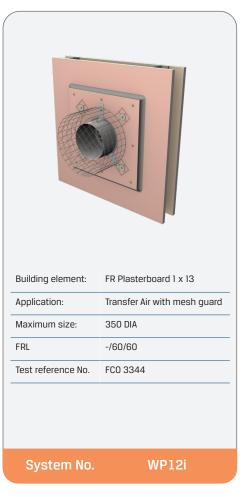
Guard Removed for clarity FACE FIXING Alternative fixing method Kilargo Intumescent fire damper supported by studs noggins fixed to studs.

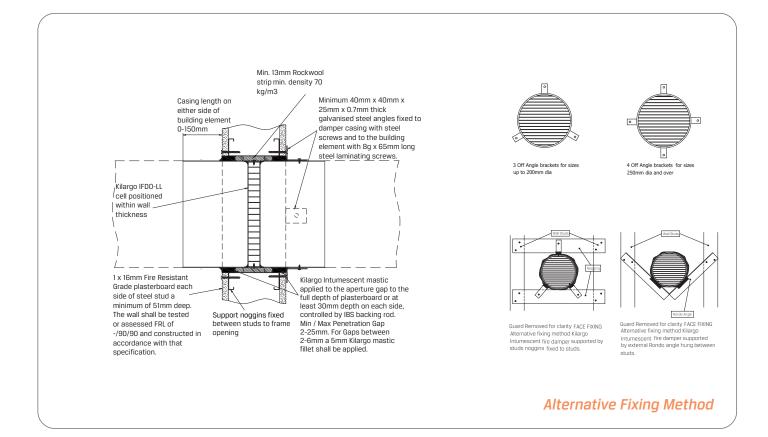


4 Off Angle brackets for sizes 250mm dia and over



Guard Removed for clarity FACE FIXING Alternative fixing method Kilargo Intumescent fire damper supported by external Rondo angle hung between studs.





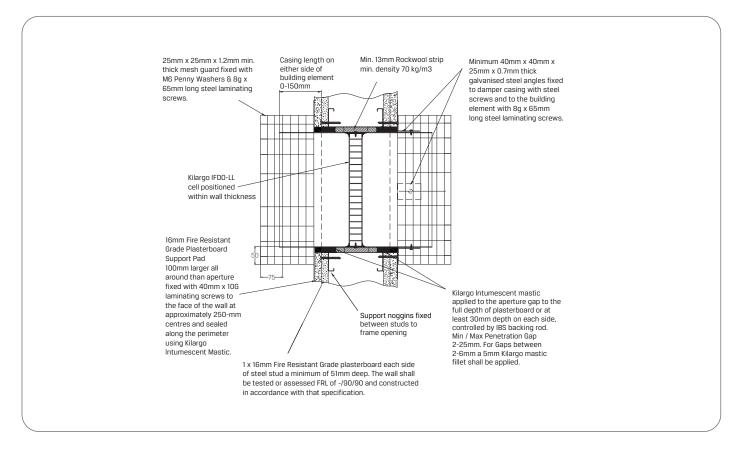
Step 1	Position damper centrally in penetration aperture as per system drawing with IBS Backing Rod and packers
Step 2	Fasten mounting brackets to damper with steel self-drilling screws or steel pop rivets and to the building element with appropriate mechanical fixings as per system drawing
Step 3	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper & building element. Ensure fill depth corresponds with those detailed in the system drawing
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 5	Connect ductwork to the damper casing with AS1682.2 compliant breakaway joint

- Grilles, louvres, IBS backing rod & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-6mm, a fillet of Kilargo Intumescent Mastic shall be applied.



Building element:	FR Plasterboard 1 x 16
Application:	Ducted
Maximum size:	350 DIA
FRL	-/90/90
Test reference No.	FC0 3344
System No	. WP13

Air Transfer



Step 1	Fix additional plasterboard pads to each side of wall and apply Kilargo Intumescent Mastic to the edges as per system drawing
Step 2	Position damper centrally in penetration aperture as per system drawing with 70kg/m3 rockwool
Step 3	Fasten mounting brackets to damper with steel self-drilling screws or steel pop rivets and to the building element with appropriate mechanical fixings as per system drawing
Step 4	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper & building element. Ensure fill depth corresponds with those detailed in the system drawing
Step 5	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 6	Fix $25 \times 25 \times 1.2$ mm thick mesh guards to each side of the building element with M6 penny washers & appropriate 8g x 65 fixings to suit as shown

System Notes

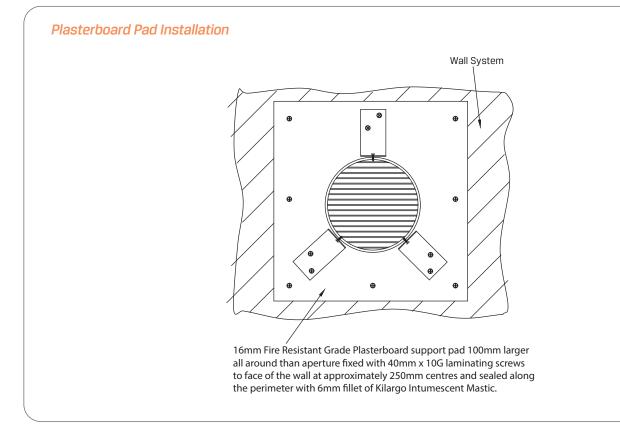
- Mesh guards, additional plasterboard pads, rockwool & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-6mm, a fillet of Kilargo Intumescent Mastic shall be applied.



FC0 3344

Test reference No.

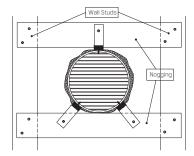
Air Transfer



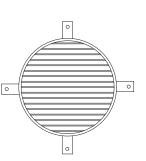
Alternative Fixing Method



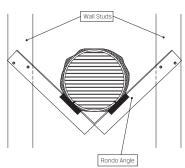
3 Off Angle brackets for sizes up to 200mm dia



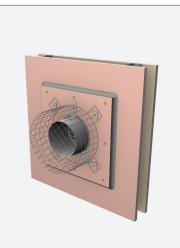
Guard Removed for clarity FACE FIXING Alternative fixing method Kilargo Intumescent fire damper supported by studs noggins fixed to studs.



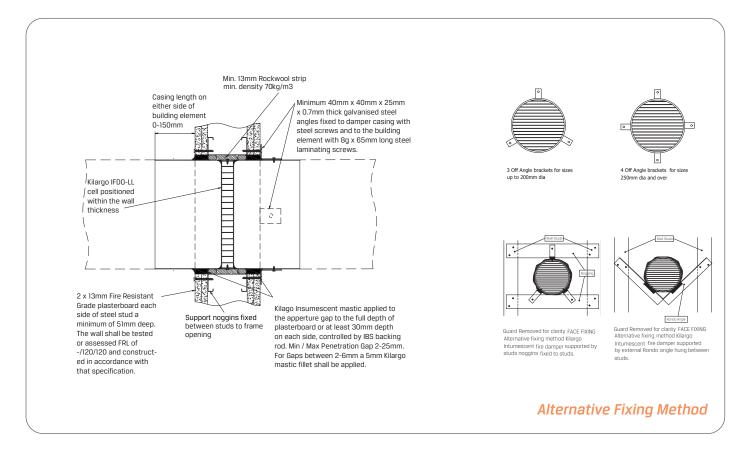
4 Off Angle brackets for sizes 250mm dia and over



Guard Removed for clarity FACE FIXING Alternative fixing method Kilargo Intumescent fire damper supported by external Rondo angle hung between studs.



Building element:	FR Plasterboard 1 x 16
building element.	
Application:	Transfer Air with mesh guard
Maximum size:	350 DIA
FRL	-/90/90
Test reference No.	FC0 3344
System No. WP13i	



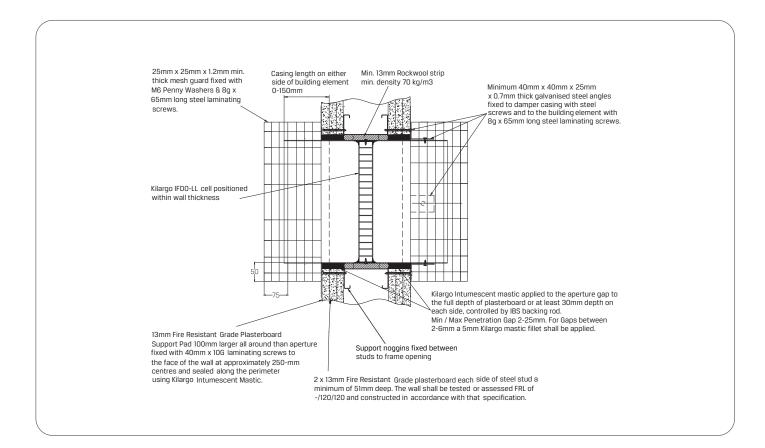
Step 1	Position damper centrally in penetration aperture as per system drawing with IBS Backing Rod and packers
Step 2	Fasten mounting brackets to damper with steel self-drilling screws or steel pop rivets and to the building element with appropriate mechanical fixings as per system drawing
Step 3	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper & building element. Ensure fill depth corresponds with those detailed in the system drawing
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 5	Connect ductwork to the damper casing with AS1682.2 compliant breakaway joint

- Grilles, louvres, IBS backing rod & fixings are to be supplied by others. .
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, . including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2
- Ensure convenient access is provided for visual inspection and cleaning as necessary. .
- 2mm Minimum gap allowable between damper and aperture. For gaps between . 2-6mm, a fillet of Kilargo Intumescent Mastic shall be applied.



Building element:	FR Plasterboard 2 x 13
Application:	Ducted
Maximum size:	350 DIA
FRL	-/120/120
Test reference No.	FC0 3344
System No.	WP14

Air Transfer



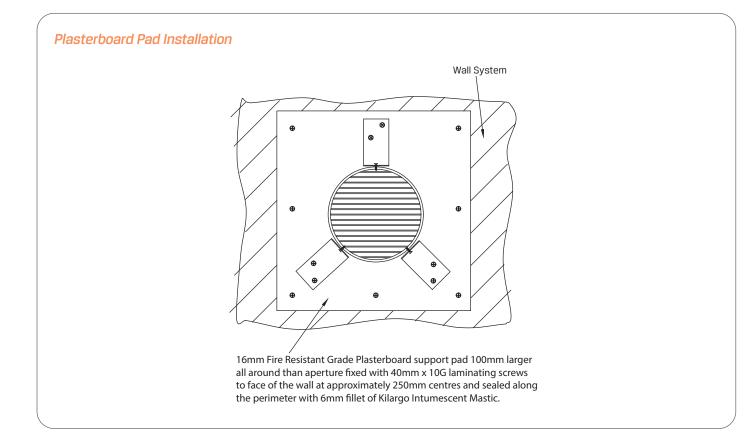
Step 1	Fix additional plasterboard pads to each side of wall and apply Kilargo Intumescent Mastic to the edges as per system drawing
Step 2	Position damper centrally in penetration aperture as per system drawing with 70kg/m3 rockwool
Step 3	Fasten mounting brackets to damper with steel self-drilling screws or steel pop rivets and to the building element with appropriate mechanical fixings as per system drawing
Step 4	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper & building element. Ensure fill depth corresponds with those detailed in the system drawing
Step 5	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 6	Fix 25 x 25 x 1.2mm thick mesh guards to each side of the building element with M6 penny washers & appropriate 8g x 65 fixings to suit as shown

- Mesh guards, additional plasterboard pads, rockwool & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-6mm, a fillet of Kilargo Intumescent Mastic shall be applied.



Building element:	FR Plasterboard 2 x 13
Application:	Transfer Air with mesh guard
Maximum size:	350 DIA
FRL	-/120/120
Test reference No.	FC0 3344

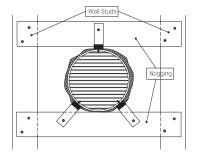
Air Transfer



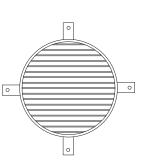
Alternative Fixing Method



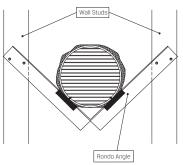
3 Off Angle brackets for sizes up to 200mm dia



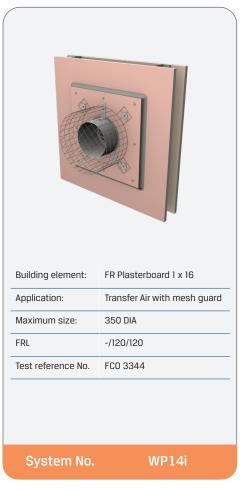
Guard Removed for clarity FACE FIXING Alternative fixing method Kilargo Intumescent fire damper supported by studs noggins fixed to studs.

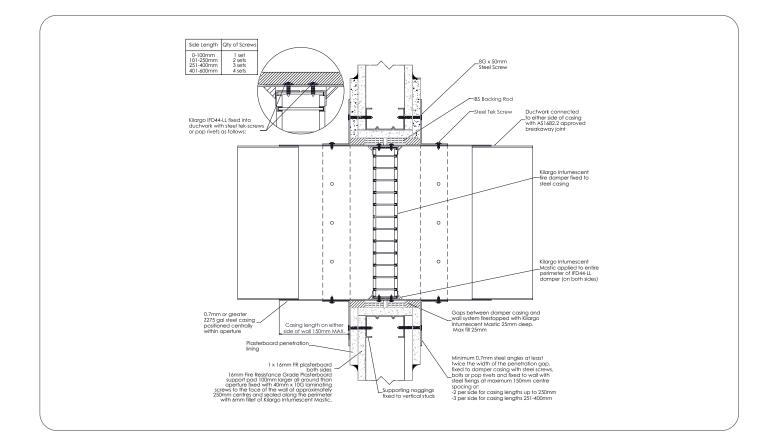


4 Off Angle brackets for sizes 250mm dia and over



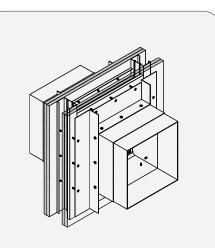
Guard Removed for clarity FACE FIXING Alternative fixing method Kilargo Intumescent fire damper supported by external Rondo angle hung between studs.





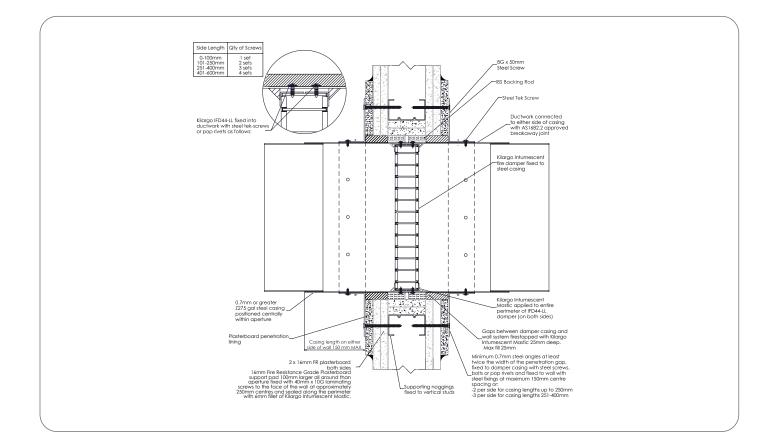
Step 1	Install additional 100mm wide plasterboard pad around aperture as per system drawing.
Step 2	Position damper centrally in penetration aperture as per system drawing with IBS Backing Rod and temporary supports or packers.
Step 3	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper & building element & to perimeter of additional plasterboard pad. Ensure fill depth corresponds with those detailed in the system drawing.
Step 4	Fasten mounting angles to damper with steel self-drilling screws or steel pop rivets and, if detailed, to the building element with appropriate mechanical fixings as per system drawing.
Step 5	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections.
Step 6	Connect ductwork to the damper casing with AS 1682.2 compliant breakaway joint.

- IBS backing rod & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2
- Ensure convenient access is provided for visual inspection and cleaning as necessary
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied



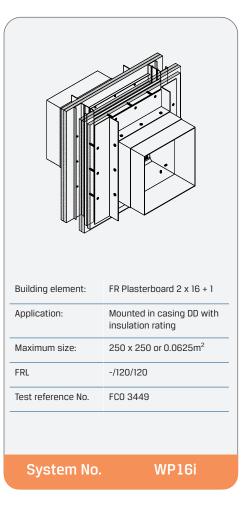
Building element:	FR Plasterboard 1 x 16 + 1
Application:	Mounted in casing DD with insulation rating
Maximum size:	250 x 250 or 0.0625m ²
FRL	-/90/90
Test reference No.	FC0 3449

Installation Instructions: Ducted

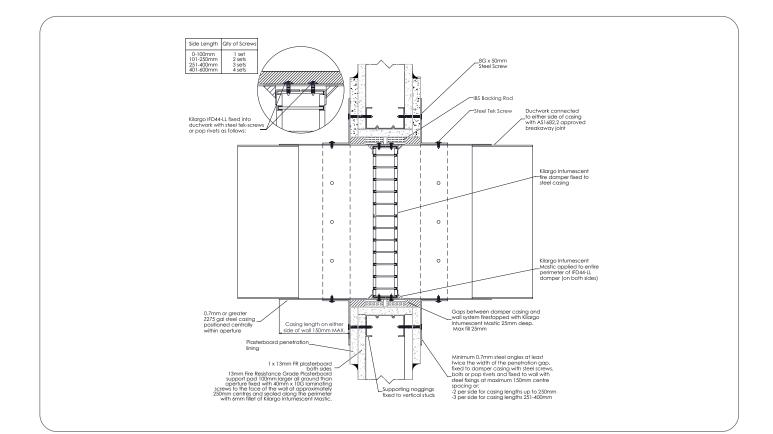


Step 1	Install additional 100mm wide plasterboard pad around aperture as per system drawing.
Step 2	Position damper centrally in penetration aperture as per system drawing with IBS Backing Rod and temporary supports or packers.
Step 3	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper & building element & to perimeter of additional plasterboard pad. Ensure fill depth corresponds with those detailed in the system drawing.
Step 4	Fasten mounting angles to damper with steel self-drilling screws or steel pop rivets and, if detailed, to the building element with appropriate mechanical fixings as per system drawing.
Step 5	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections.
Step 6	Connect ductwork to the damper casing with AS 1682.2 compliant breakaway joint.

- IBS backing rod & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2
- Ensure convenient access is provided for visual inspection and cleaning as
 necessary
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied



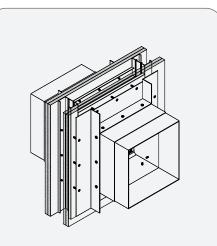
Installation Instructions: Ducted



Step 1	Install additional 100mm wide plasterboard pad around aperture as per system drawing.
Step 2	Position damper centrally in penetration aperture as per system drawing with IBS Backing Rod and temporary supports or packers.
Step 3	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper & building element & to perimeter of additional plasterboard pad. Ensure fill depth corresponds with those detailed in the system drawing.
Step 4	Fasten mounting angles to damper with steel self-drilling screws or steel pop rivets and, if detailed, to the building element with appropriate mechanical fixings as per system drawing.
Step 5	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections.
Step 6	Connect ductwork to the damper casing with AS 1682.2 compliant breakaway joint.

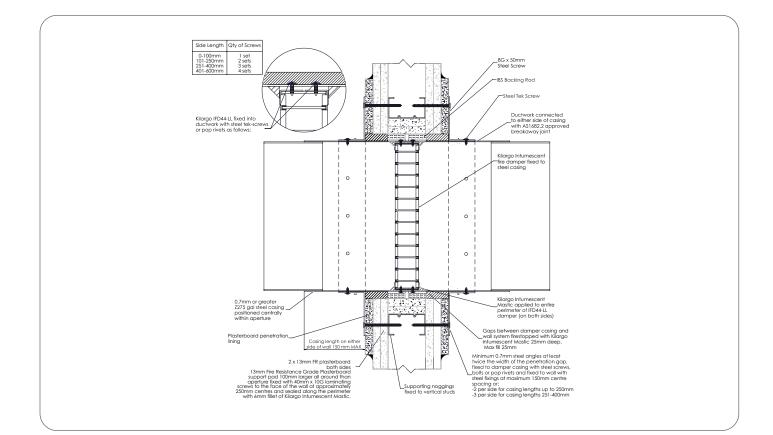
System Notes

- IBS backing rod & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of ASI682.2
- Ensure convenient access is provided for visual inspection and cleaning as necessary
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied



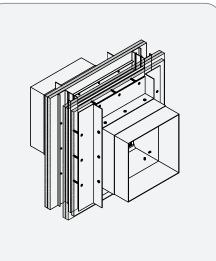
Building element:	FR Plasterboard 1 x 13 + 1
Application:	Mounted in casing DD with insulation rating
Maximum size:	250 x 250 or $0.0625m^2$
FRL	-/60/60
Test reference No.	FC0 3449

Installation Instructions: Ducted



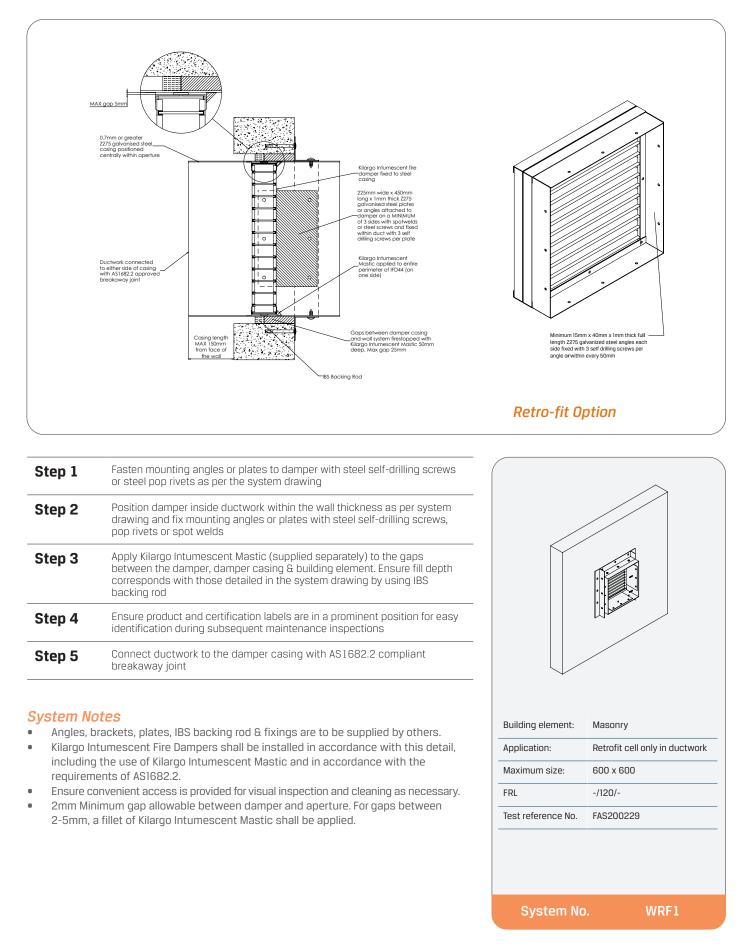
Step 1	Install additional 100mm wide plasterboard pad around aperture as per system drawing.
Step 2	Position damper centrally in penetration aperture as per system drawing with IBS Backing Rod and temporary supports or packers.
Step 3	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper & building element & to perimeter of additional plasterboard pad. Ensure fill depth corresponds with those detailed in the system drawing.
Step 4	Fasten mounting angles to damper with steel self-drilling screws or steel pop rivets and, if detailed, to the building element with appropriate mechanical fixings as per system drawing.
Step 5	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections.
Step 6	Connect ductwork to the damper casing with AS 1682.2 compliant breakaway joint.

- IBS backing rod & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2
- Ensure convenient access is provided for visual inspection and cleaning as necessary
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied

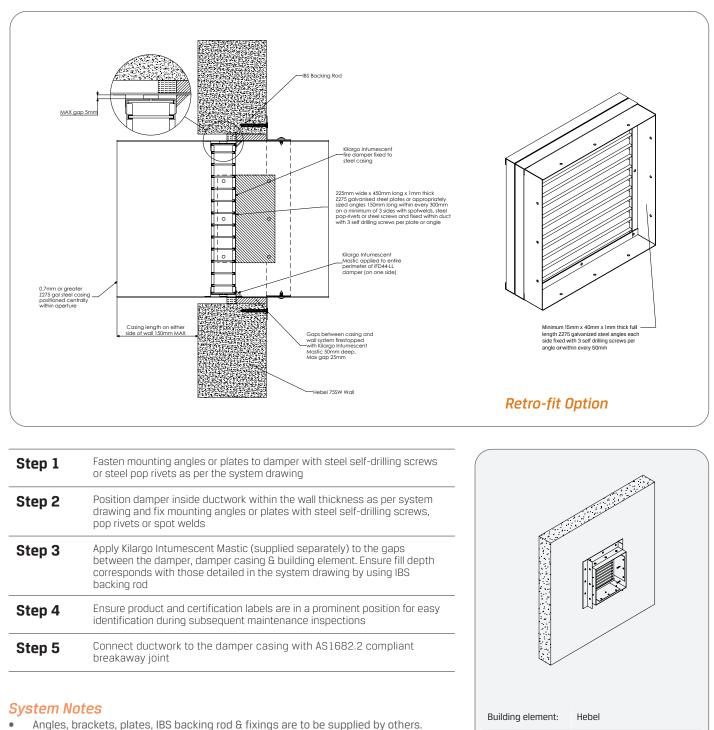


Building element:	FR Plasterboard 2 x 13 + 1
Application:	Mounted in casing DD with insulation rating
Maximum size:	250 x 250 or 0.0625m ²
FRL	-/120/120
Test reference No.	FC0 3449
System No.	WP18i

Ducted - Retro-fit



Ducted - Retro-fit



- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.



-/120/-

*Max size 600 x 600 if wall thickness is built up locally with 100mm wide FR plasterboard

FAS200229

Retrofit cell only in ductwork

300 x 300 *without build up

WRF2

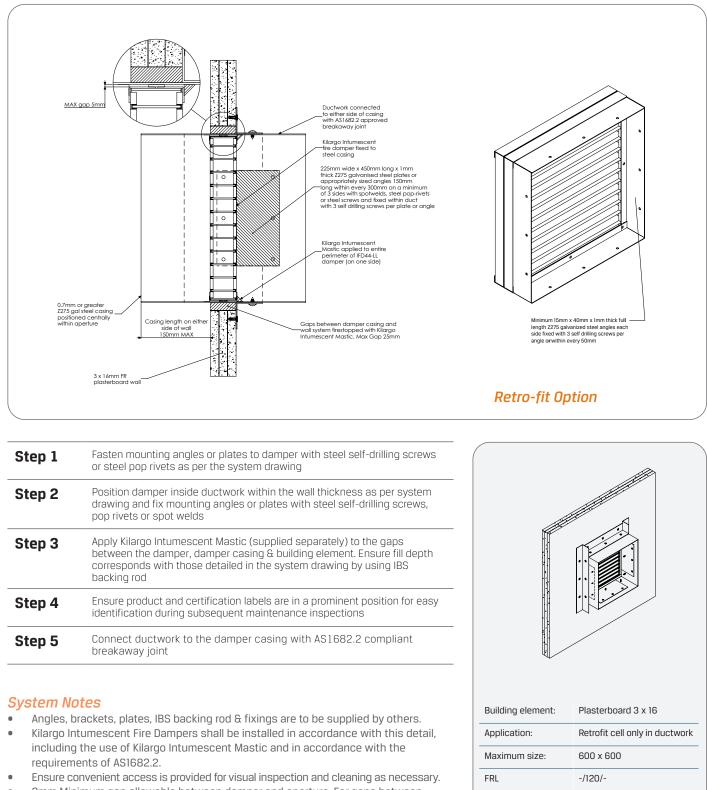
Application:

FRL

Maximum size:

Test reference No.

Ducted - Retro-fit

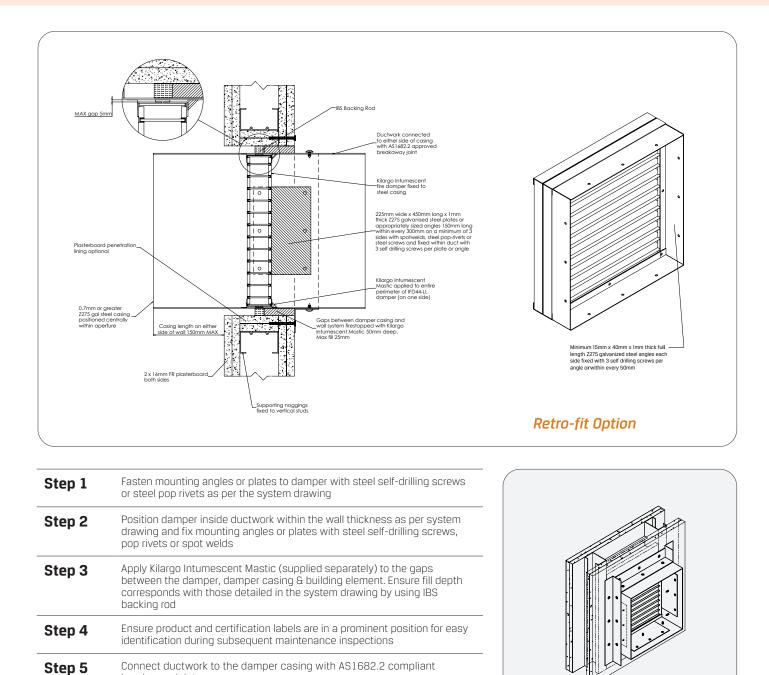


• 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.

Test reference No.

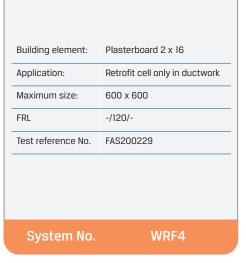
FAS200229

Ducted - Retro-fit

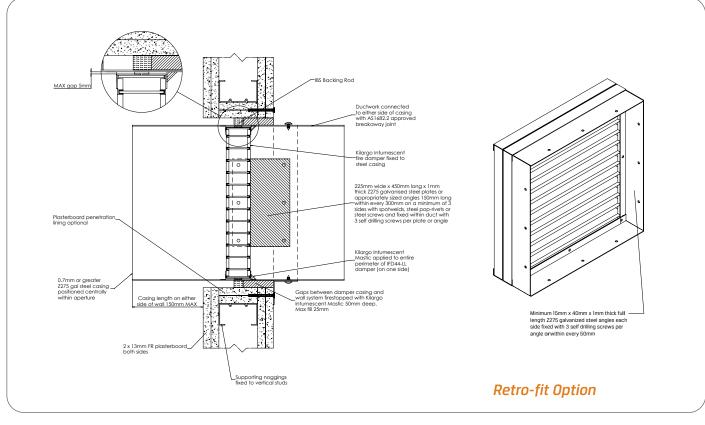


breakaway joint

- Angles, brackets, plates, IBS backing rod & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.

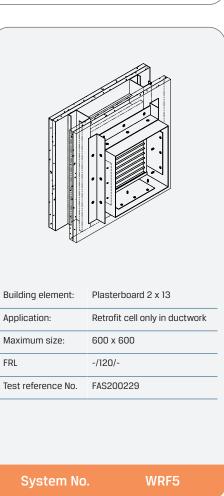


Ducted - Retro-fit

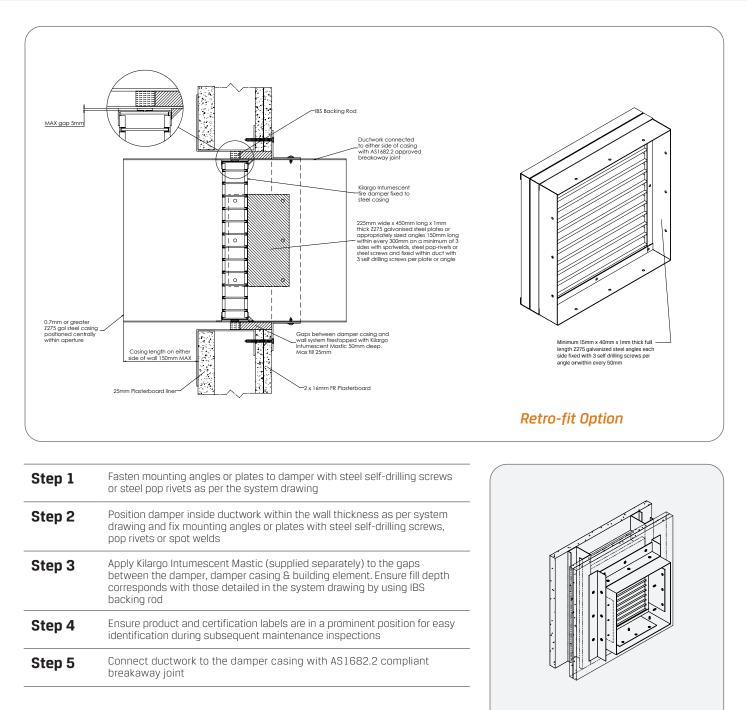


Step 1	Fasten mounting angles or plates to damper with steel self-drilling screws or steel pop rivets as per the system drawing
Step 2	Position damper inside ductwork within the wall thickness as per system drawing and fix mounting angles or plates with steel self-drilling screws, pop rivets or spot welds
Step 3	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper, damper casing & building element. Ensure fill depth corresponds with those detailed in the system drawing by using IBS backing rod
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 5	Connect ductwork to the damper casing with AS1682.2 compliant breakaway joint

- Angles, brackets, plates, IBS backing rod & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.



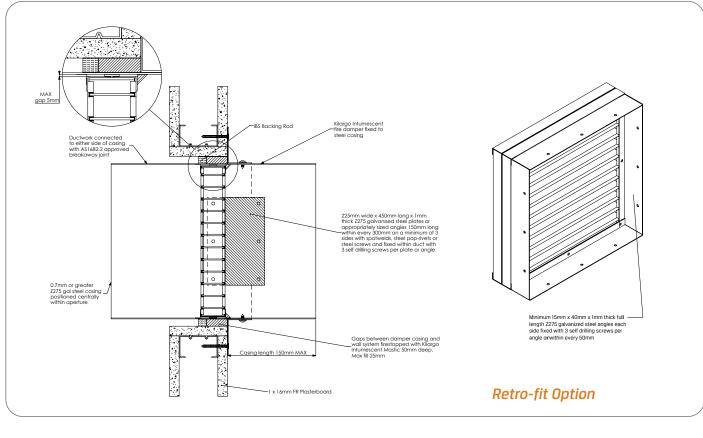
Ducted - Retro-fit



- Angles, brackets, plates, IBS backing rod & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.

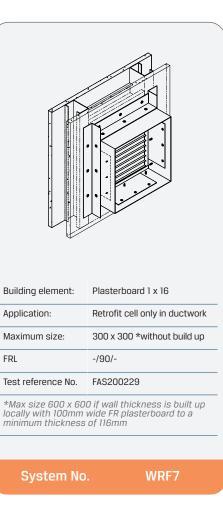


Ducted - Retro-fit

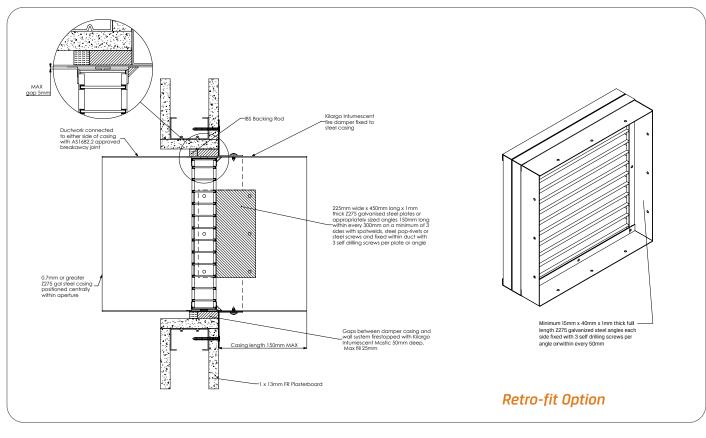


Step 1	Fasten mounting angles or plates to damper with steel self-drilling screws or steel pop rivets as per the system drawing
Step 2	Position damper inside ductwork within the wall thickness as per system drawing and fix mounting angles or plates with steel self-drilling screws, pop rivets or spot welds
Step 3	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper, damper casing & building element. Ensure fill depth corresponds with those detailed in the system drawing by using IBS backing rod
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 5	Connect ductwork to the damper casing with AS1682.2 compliant breakaway joint

- Angles, brackets, plates, IBS backing rod & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.



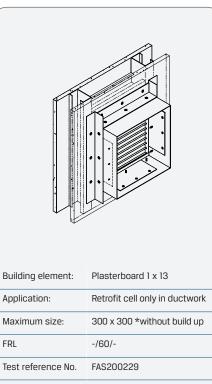
Ducted - Retro-fit



Step 1	Fasten mounting angles or plates to damper with steel self-drilling screws or steel pop rivets as per the system drawing
Step 2	Position damper inside ductwork within the wall thickness as per system drawing and fix mounting angles or plates with steel self-drilling screws, pop rivets or spot welds
Step 3	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper, damper casing & building element. Ensure fill depth corresponds with those detailed in the system drawing by using IBS backing rod
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 5	Connect ductwork to the damper casing with AS1682.2 compliant breakaway joint

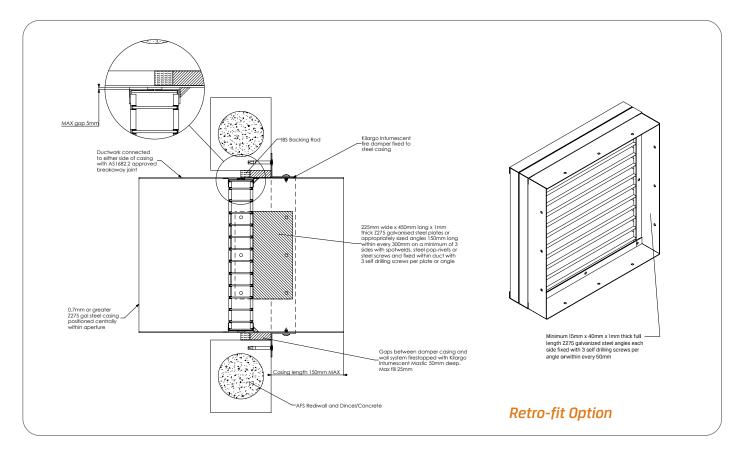
System Notes

- Angles, brackets, plates, IBS backing rod & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.



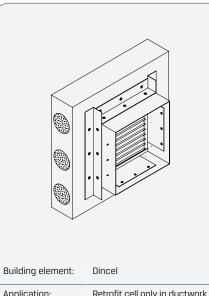
*Max size 600 x 600 if wall thickness is built up locally with 100mm wide FR plasterboard to a minimum thickness of 116mm

Ducted - Retro-fit



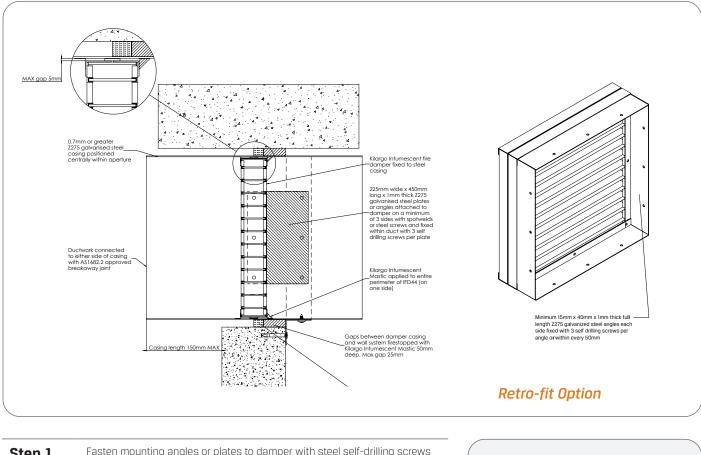
Step 1	Fasten mounting angles or plates to damper with steel self-drilling screws or steel pop rivets as per the system drawing
Step 2	Position damper inside ductwork within the wall thickness as per system drawing and fix mounting angles or plates with steel self-drilling screws, pop rivets or spot welds
Step 3	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper, damper casing & building element. Ensure fill depth corresponds with those detailed in the system drawing by using IBS backing rod
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 5	Connect ductwork to the damper casing with AS1682.2 compliant breakaway joint

- Angles, brackets, plates, IBS backing rod & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.



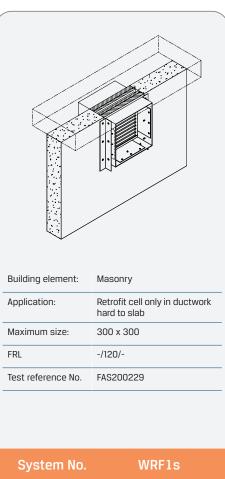
Application:	Retrofit cell only in ductwork
Maximum size:	600 x 600
FRL	-/120/-
Test reference No.	FAS200229

Ducted - Retro-fit

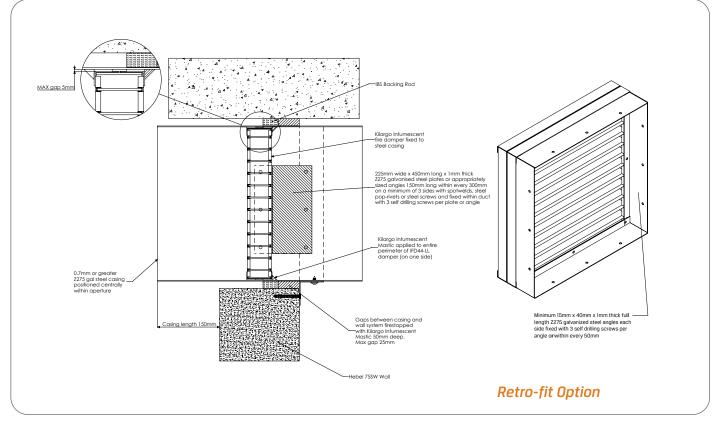


Step 1	or steel pop rivets as per the system drawing
Step 2	Position damper inside ductwork within the wall thickness as per system drawing and fix mounting angles or plates with steel self-drilling screws, pop rivets or spot welds
Step 3	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper, damper casing & building element. Ensure fill depth corresponds with those detailed in the system drawing by using IBS backing rod
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 5	Connect ductwork to the damper casing with AS1682.2 compliant breakaway joint

- Angles, brackets, plates, IBS backing rod & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.



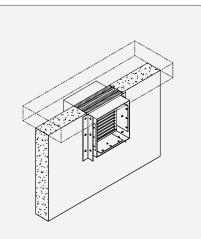
Ducted - Retro-fit



Step 1	Fasten mounting angles or plates to damper with steel self-drilling screws or steel pop rivets as per the system drawing
Step 2	Position damper inside ductwork within the wall thickness as per system drawing and fix mounting angles or plates with steel self-drilling screws, pop rivets or spot welds
Step 3	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper, damper casing & building element. Ensure fill depth corresponds with those detailed in the system drawing by using IBS backing rod
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 5	Connect ductwork to the damper casing with AS1682.2 compliant breakaway joint

System Notes

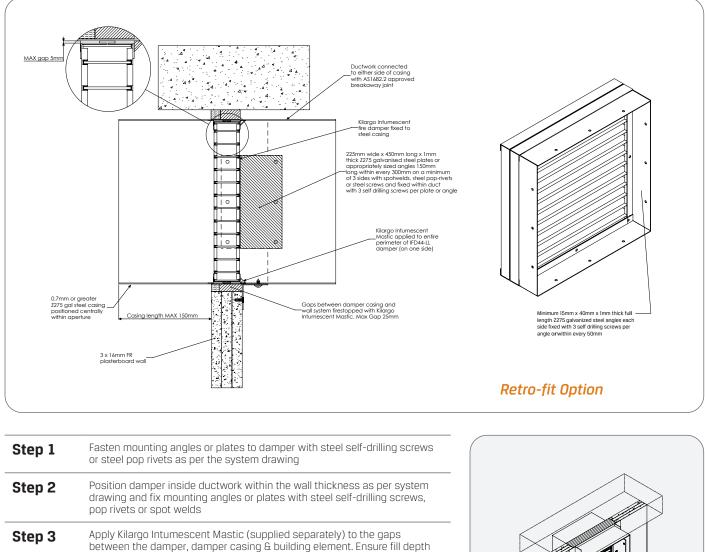
- Angles, brackets, plates, IBS backing rod & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.



Building element: Hebel

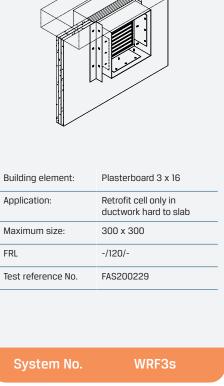
Application:	Retrofit cell only in ductwork hard to slab
Maximum size:	300 x 300
FRL	-/120/-
Test reference No.	FAS200229

Ducted - Retro-fit

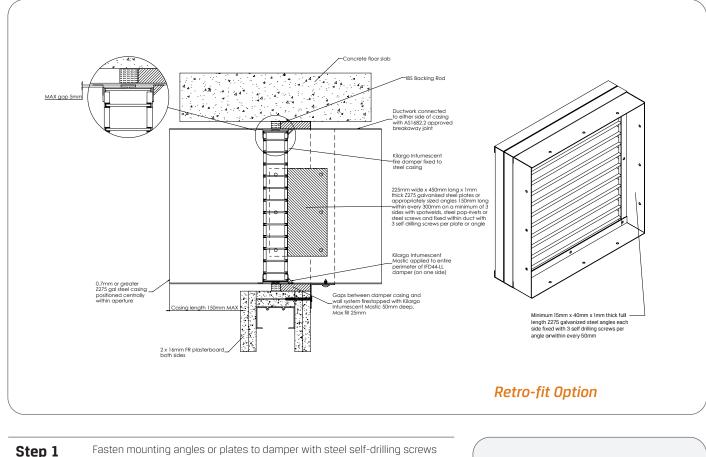


	corresponds with those detailed in the system drawing by using IBS backing rod
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 5	Connect ductwork to the damper casing with AS1682.2 compliant breakaway joint

- Angles, brackets, plates, IBS backing rod & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.



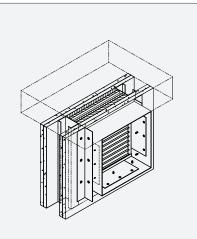
Ducted - Retro-fit



Step 1	or steel pop rivets as per the system drawing
Step 2	Position damper inside ductwork within the wall thickness as per system drawing and fix mounting angles or plates with steel self-drilling screws, pop rivets or spot welds
Step 3	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper, damper casing & building element. Ensure fill depth corresponds with those detailed in the system drawing by using IBS backing rod
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 5	Connect ductwork to the damper casing with AS1682.2 compliant breakaway joint

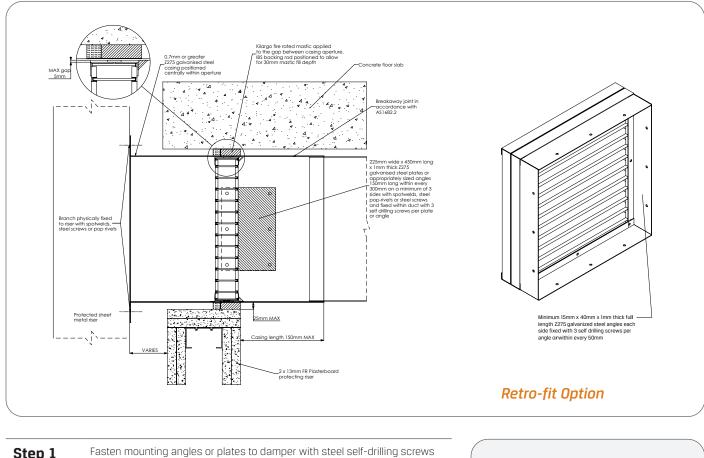
System Notes

- Angles, brackets, plates, IBS backing rod & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.



Building element:Plasterboard 2 x 16Application:Retrofit cell only in ductwork
hard to slabMaximum size:300 x 300FRL-/120/-Test reference No.FAS200229

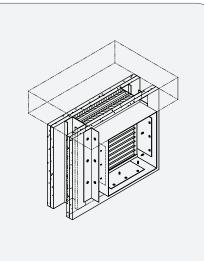
Ducted - Retro-fit



	or steel pop rivets as per the system drawing
Step 2	Position damper inside ductwork within the wall thickness as per system drawing and fix mounting angles or plates with steel self-drilling screws, pop rivets or spot welds
Step 3	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper, damper casing & building element. Ensure fill depth corresponds with those detailed in the system drawing by using IBS backing rod
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 5	Connect ductwork to the damper casing with AS1682.2 compliant breakaway joint

System Notes

- Angles, brackets, plates, IBS backing rod & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.

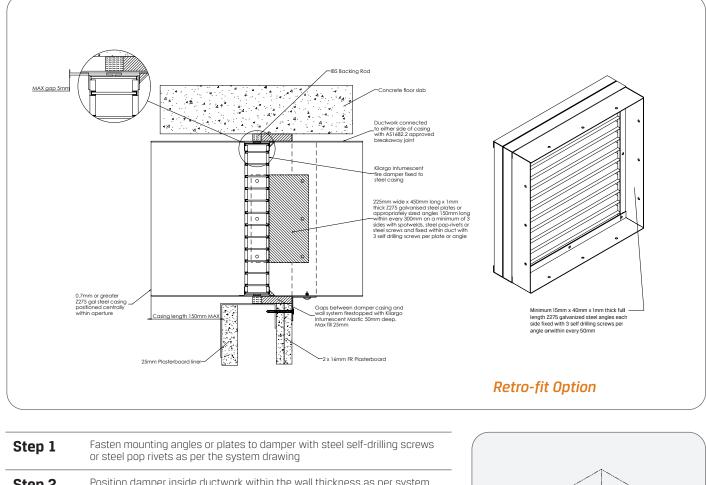


Building element:	Plasterboard 2 x 13
Application:	Retrofit cell only in ductwork hard to slab
Maximum size:	300 x 300
FRL	-/120/-
Test reference No.	FAS200229
System No.	WRF5s

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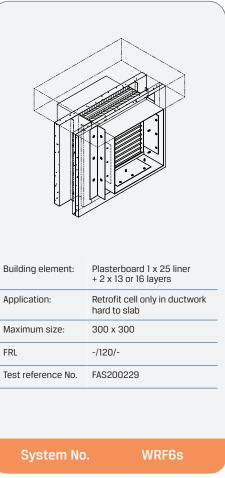
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Ducted - Retro-fit

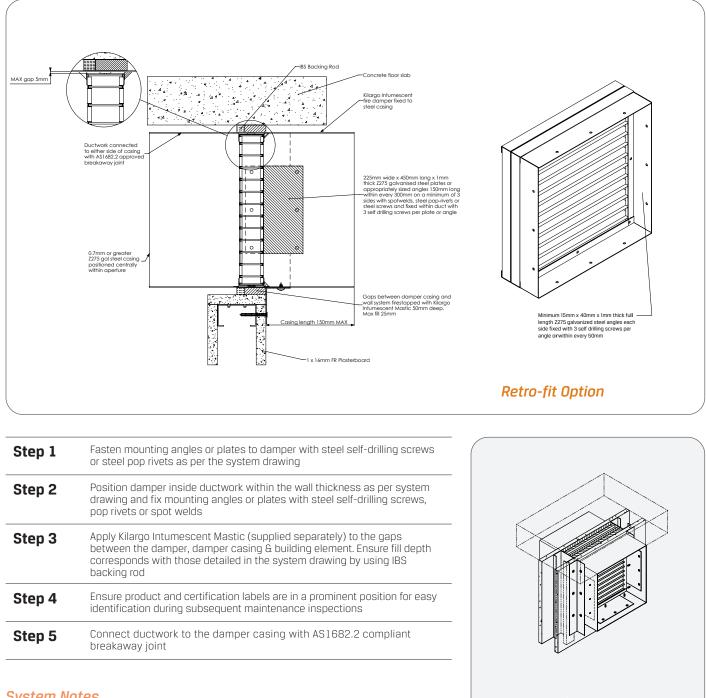


	Step 2	drawing and fix mounting angles or plates with steel self-drilling screws, pop rivets or spot welds
-	Step 3	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper, damper casing & building element. Ensure fill depth corresponds with those detailed in the system drawing by using IBS backing rod
	Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
	Step 5	Connect ductwork to the damper casing with AS1682.2 compliant breakaway joint

- Angles, brackets, plates, IBS backing rod & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.



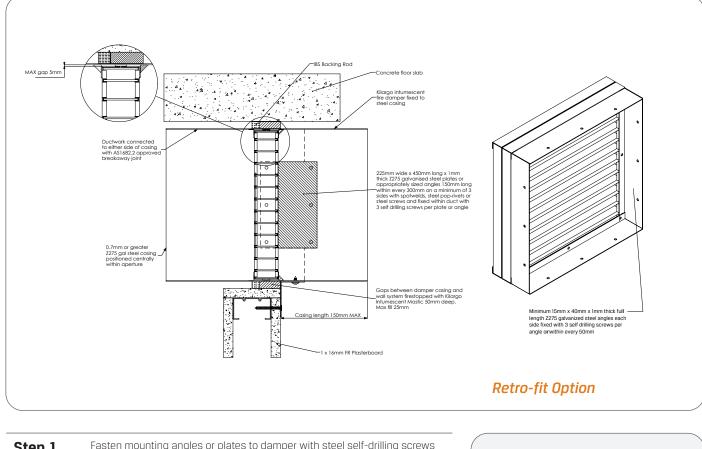
Ducted - Retro-fit



- Angles, brackets, plates, IBS backing rod & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.



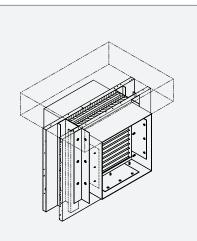
Ducted - Retro-fit



Steh I	or steel pop rivets as per the system drawing
Step 2	Position damper inside ductwork within the wall thickness as per system drawing and fix mounting angles or plates with steel self-drilling screws, pop rivets or spot welds
Step 3	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper, damper casing & building element. Ensure fill depth corresponds with those detailed in the system drawing by using IBS backing rod
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 5	Connect ductwork to the damper casing with AS1682.2 compliant breakaway joint

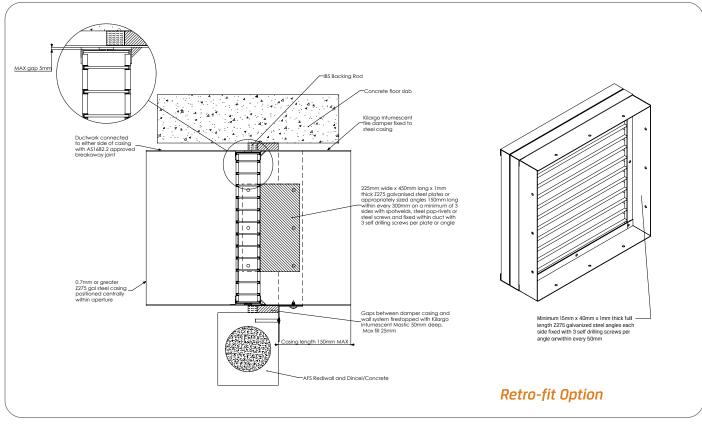
System Notes

- Angles, brackets, plates, IBS backing rod & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.



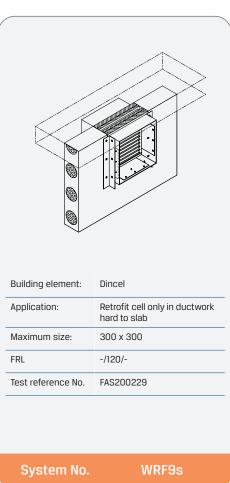
Building element:Plasterboard 1 x 13Application:Retrofit cell only in ductwork
hard to slabMaximum size:300 x 300FRL-/60/-Test reference No.FAS200229

Ducted - Retro-fit

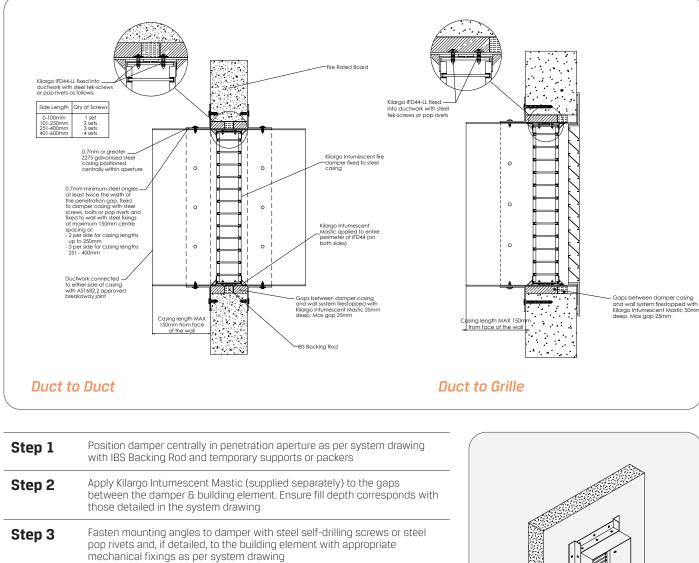


Step 1	Fasten mounting angles or plates to damper with steel self-drilling screws or steel pop rivets as per the system drawing
Step 2	Position damper inside ductwork within the wall thickness as per system drawing and fix mounting angles or plates with steel self-drilling screws, pop rivets or spot welds
Step 3	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper, damper casing & building element. Ensure fill depth corresponds with those detailed in the system drawing by using IBS backing rod
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 5	Connect ductwork to the damper casing with AS1682.2 compliant breakaway joint

- Angles, brackets, plates, IBS backing rod & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.

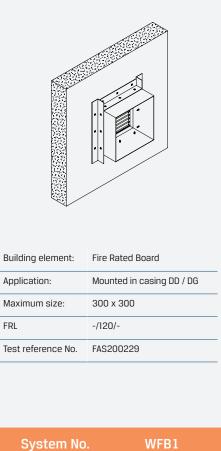


Installation Instructions: Ducted

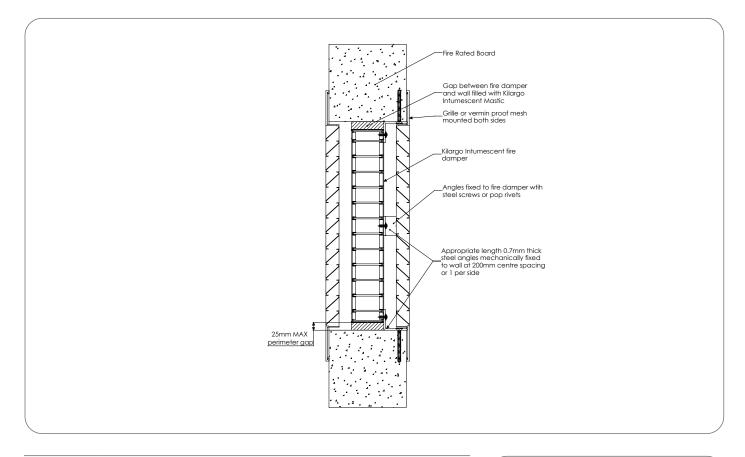


Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 5	Connect ductwork to the damper casing with AS1682.2 compliant breakaway joint

- Grilles, louvres, IBS backing rod & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.

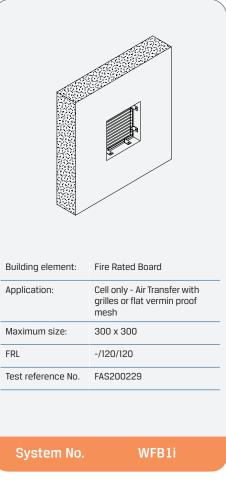


Air-Transfer

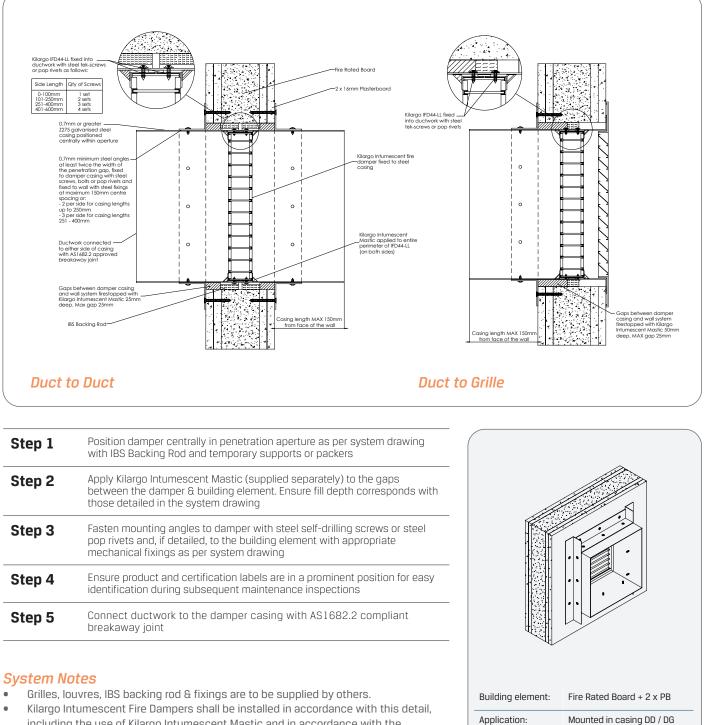


Step 1	Position damper centrally in penetration aperture as per system drawing with temporary supports or packers
Step 2	Fasten mounting angles or brackets to damper with steel self-drilling screws or steel pop rivets and to the building element with appropriate mechanical fixings as per system drawing
Step 3	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper & building element. Ensure fill depth corresponds with those detailed in the system drawing
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 5	Fix grilles, louvres or vermin proof mesh independently to each side of the building element

- Grilles, louvres, vermin proof mesh, angles, brackets & fixings are to be supplied by others.
- Grilles to be fixed independently to the building element and shall not be fixed to the fire damper.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.



Installation Instructions: Ducted



including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.

- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.

Maximum size:

Test reference No.

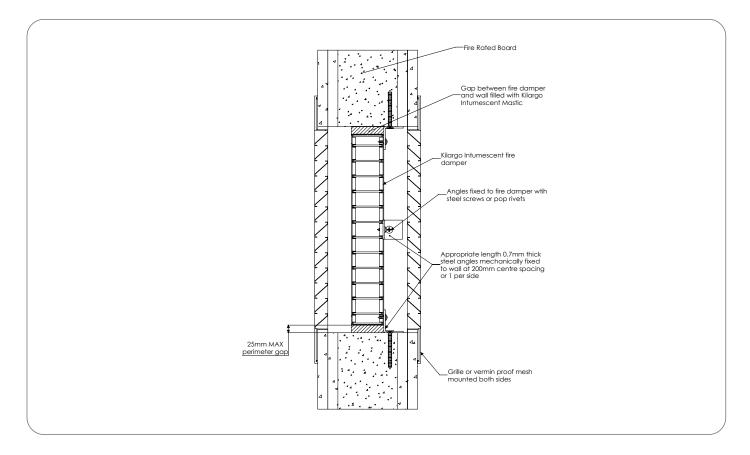
FRL

300 x 300

FAS200229

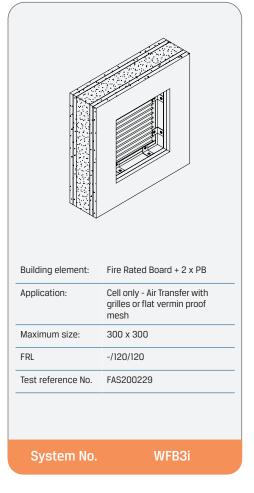
-/120/-

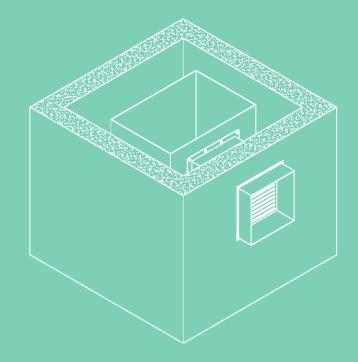
Air-Transfer



Step 1	Position damper centrally in penetration aperture as per system drawing with temporary supports or packers
Step 2	Fasten mounting angles or brackets to damper with steel self-drilling screws or steel pop rivets and to the building element with appropriate mechanical fixings as per system drawing
Step 3	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper & building element. Ensure fill depth corresponds with those detailed in the system drawing
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 5	Fix grilles, louvres or vermin proof mesh independently to each side of the building element

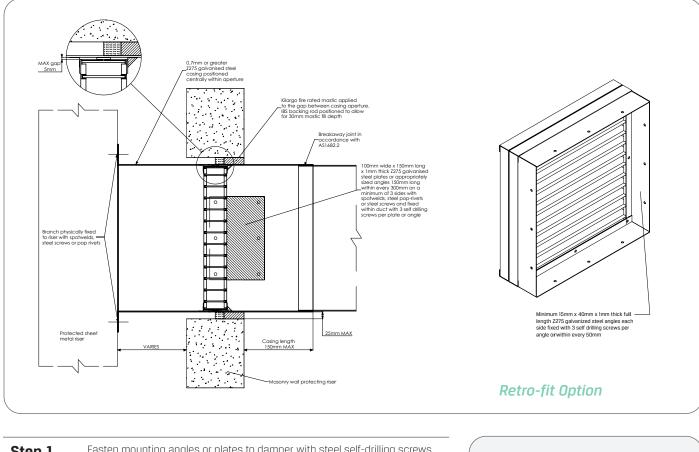
- Grilles, louvres, vermin proof mesh, angles, brackets & fixings are to be supplied by others.
- Grilles to be fixed independently to the building element and shall not be fixed to the fire damper.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.





SHAFT WALL SYSTEMS

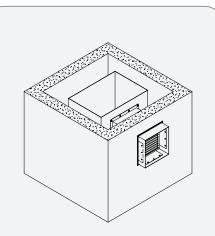
Ducted - Retro-fit



Step 1	or steel pop rivets as per the system drawing
Step 2	Position damper inside ductwork within the wall thickness as per system drawing and fix mounting angles or plates with steel self-drilling screws, pop rivets or spot welds
Step 3	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper, damper casing & building element. Ensure fill depth corresponds with those detailed in the system drawing by using IBS backing rod
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 5	Connect ductwork to the damper casing with AS1682.2 compliant breakaway joint

System Notes

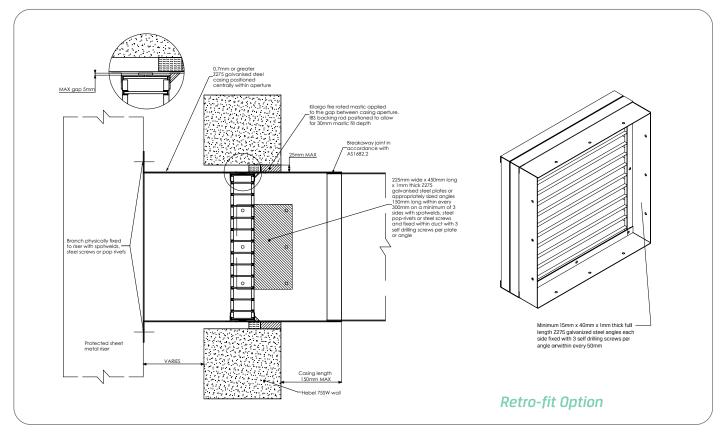
- Angles, brackets, plates, IBS backing rod & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.



Building element: Masonry

Application:	Retrofit cell only in ductwork riser branch
Maximum size:	600 x 600
FRL	-/120/-
Test reference No.	FAS200229
System No.	WSRF1

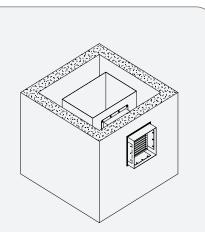
Ducted - Retro-fit



Step 1	Fasten mounting angles or plates to damper with steel self-drilling screws or steel pop rivets as per the system drawing
Step 2	Position damper inside ductwork within the wall thickness as per system drawing and fix mounting angles or plates with steel self-drilling screws, pop rivets or spot welds
Step 3	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper, damper casing & building element. Ensure fill depth corresponds with those detailed in the system drawing by using IBS backing rod
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 5	Connect ductwork to the damper casing with AS1682.2 compliant breakaway joint

System Notes

- Angles, brackets, plates, IBS backing rod & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.

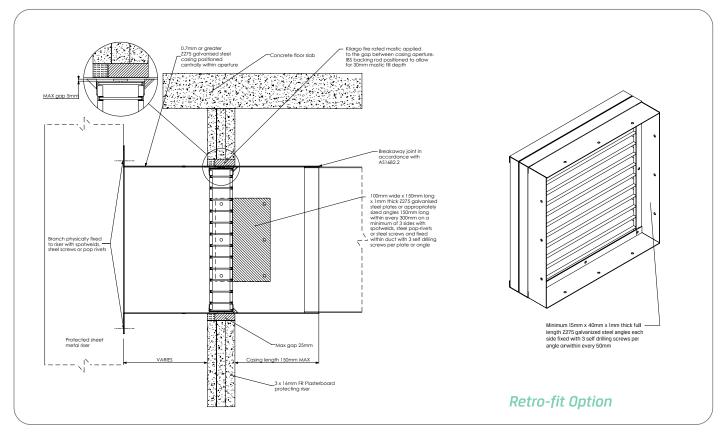


Building element: Hebel

-

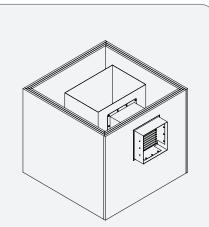
Application:	Retrofit cell only in ductwork riser branch
Maximum size:	600 x 600
FRL	-/120/-
Test reference No.	FAS200229

Ducted - Retro-fit



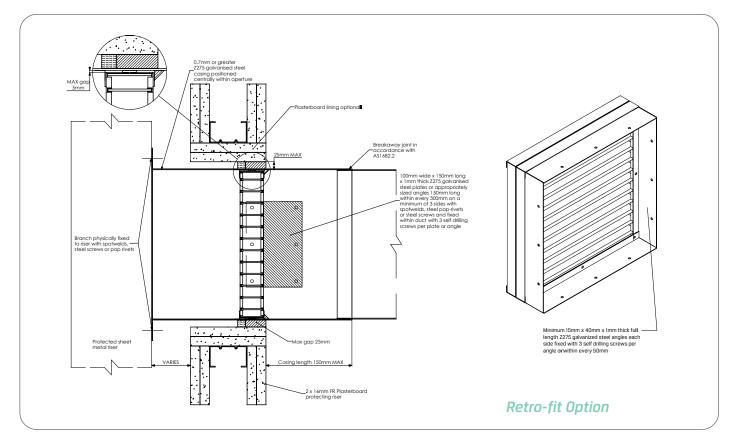
Step 1	Fasten mounting angles or plates to damper with steel self-drilling screws or steel pop rivets as per the system drawing
Step 2	Position damper inside ductwork within the wall thickness as per system drawing and fix mounting angles or plates with steel self-drilling screws, pop rivets or spot welds
Step 3	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper, damper casing & building element. Ensure fill depth corresponds with those detailed in the system drawing by using IBS backing rod
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 5	Connect ductwork to the damper casing with AS1682.2 compliant breakaway joint

- Angles, brackets, plates, IBS backing rod & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.



Building element:	Plasterboard 3 x 16
Application:	Retrofit cell only in ductwork riser branch
Maximum size:	600 x 600
FRL	-/120/-
Test reference No.	FAS200229
System No.	WSRF3

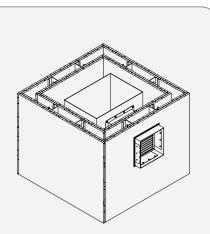
Ducted - Retro-fit



Step 1	Fasten mounting angles or plates to damper with steel self-drilling screws or steel pop rivets as per the system drawing
Step 2	Position damper inside ductwork within the wall thickness as per system drawing and fix mounting angles or plates with steel self-drilling screws, pop rivets or spot welds
Step 3	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper, damper casing & building element. Ensure fill depth corresponds with those detailed in the system drawing by using IBS backing rod
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 5	Connect ductwork to the damper casing with AS1682.2 compliant breakaway joint

System Notes

- Angles, brackets, plates, IBS backing rod & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.

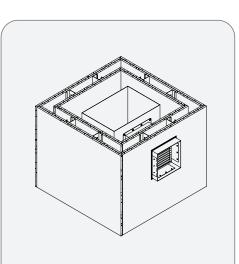


Building element:	Plasterboard 2 x 16
Application:	Retrofit cell only in ductwork riser branch
Maximum size:	600 x 600
FRL	-/120/-
Test reference No.	FAS200229

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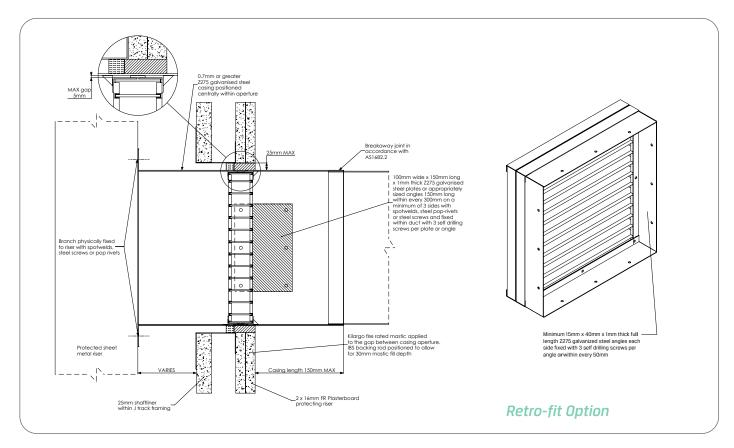
Step 1	Fasten mounting angles or plates to damper with steel self-drilling screws or steel pop rivets as per the system drawing
Step 2	Position damper inside ductwork within the wall thickness as per system drawing and fix mounting angles or plates with steel self-drilling screws, pop rivets or spot welds
Step 3	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper, damper casing & building element. Ensure fill depth corresponds with those detailed in the system drawing by using IBS backing rod
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 5	Connect ductwork to the damper casing with AS1682.2 compliant breakaway joint

- Angles, brackets, plates, IBS backing rod & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.



Building element:	Plasterboard 2 x 13
Application:	Retrofit cell only in ductwork riser branch
Maximum size:	600 x 600
FRL	-/120/-
Test reference No.	FAS200229
System No.	WSRF5

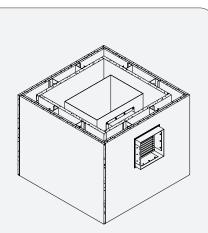
Ducted - Retro-fit



Step 1	Fasten mounting angles or plates to damper with steel self-drilling screws or steel pop rivets as per the system drawing
Step 2	Position damper inside ductwork within the wall thickness as per system drawing and fix mounting angles or plates with steel self-drilling screws, pop rivets or spot welds
Step 3	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper, damper casing & building element. Ensure fill depth corresponds with those detailed in the system drawing by using IBS backing rod
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 5	Connect ductwork to the damper casing with AS1682.2 compliant breakaway joint

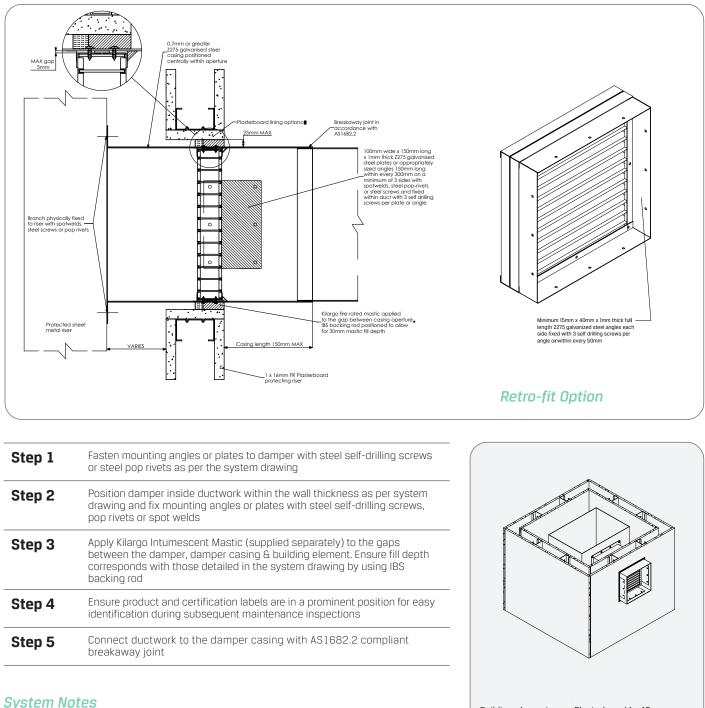
System Notes

- Angles, brackets, plates, IBS backing rod & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.

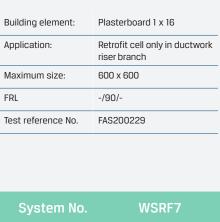


Building element:	Plasterboard 1 x 25 liner + 2 x 13 or 16 layers
Application:	Retrofit cell only in ductwork riser branch
Maximum size:	600 x 600
FRL	-/120/-
Test reference No.	FAS200229

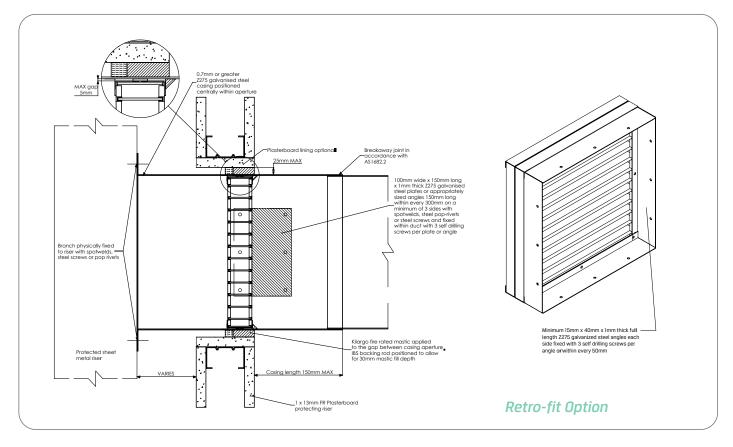
Ducted - Retro-fit



- Angles, brackets, plates, IBS backing rod & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.



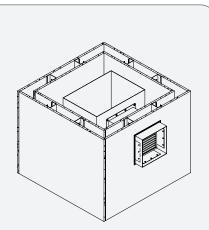
Ducted - Retro-fit



Step 1	Fasten mounting angles or plates to damper with steel self-drilling screws or steel pop rivets as per the system drawing
Step 2	Position damper inside ductwork within the wall thickness as per system drawing and fix mounting angles or plates with steel self-drilling screws, pop rivets or spot welds
Step 3	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper, damper casing & building element. Ensure fill depth corresponds with those detailed in the system drawing by using IBS backing rod
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 5	Connect ductwork to the damper casing with AS1682.2 compliant breakaway joint

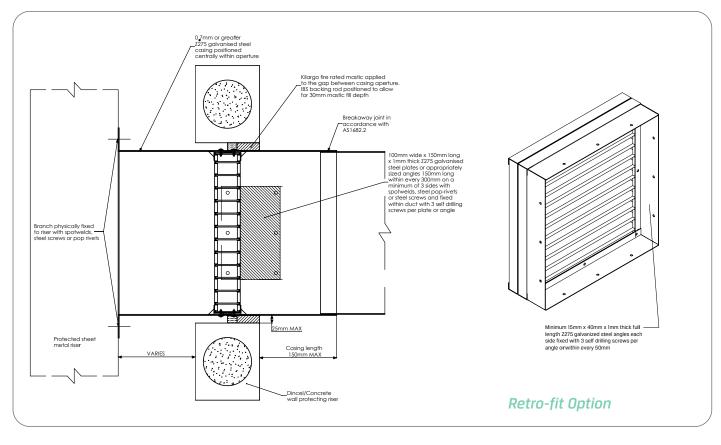
System Notes

- Angles, brackets, plates, IBS backing rod & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.



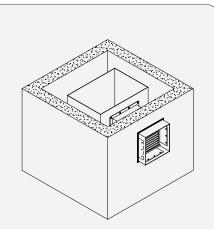
Building element:	Plasterboard 1 x 13
Application:	Retrofit cell only in ductwork riser branch
Maximum size:	600 x 600
FRL	-/60/-
Test reference No.	FAS200229

Ducted - Retro-fit



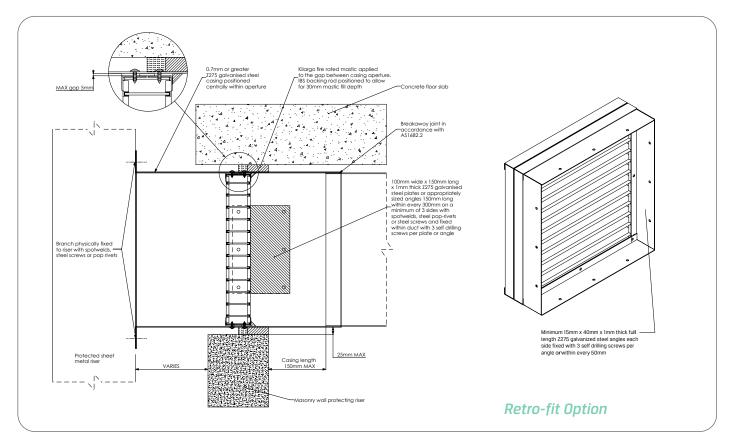
Fasten mounting angles or plates to damper with steel self-drilling screws or steel pop rivets as per the system drawing	
Position damper inside ductwork within the wall thickness as per system drawing and fix mounting angles or plates with steel self-drilling screws, pop rivets or spot welds	
Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper, damper casing & building element. Ensure fill depth corresponds with those detailed in the system drawing by using IBS backing rod	
Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections	
Connect ductwork to the damper casing with AS1682.2 compliant breakaway joint	

- Angles, brackets, plates, IBS backing rod & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.



Building element:	Dincel
Application:	Retrofit cell only in ductwork riser branch
Maximum size:	600 x 600
FRL	-/120/-
Test reference No.	FAS200229
System No.	WSRF9

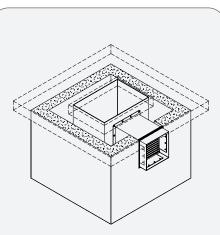
Ducted - Retro-fit



Step 1	Fasten mounting angles or plates to damper with steel self-drilling screws or steel pop rivets as per the system drawing	
Step 2	Position damper inside ductwork within the wall thickness as per system drawing and fix mounting angles or plates with steel self-drilling screws, pop rivets or spot welds	
Step 3	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper, damper casing & building element. Ensure fill depth corresponds with those detailed in the system drawing by using IBS backing rod	
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections	
Step 5	Connect ductwork to the damper casing with AS1682.2 compliant breakaway joint	

System Notes

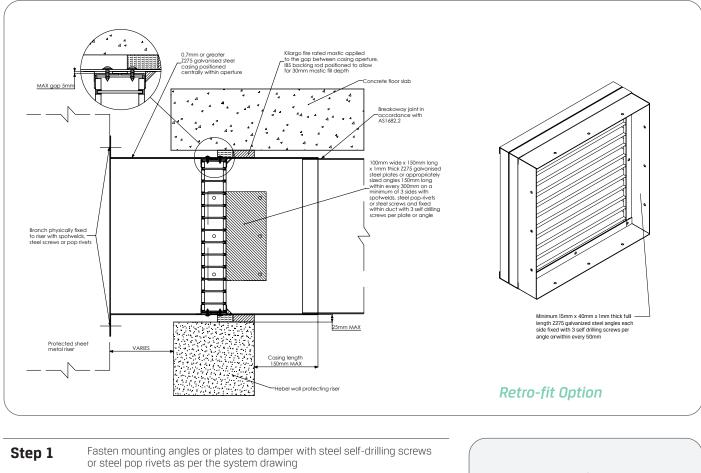
- Angles, brackets, plates, IBS backing rod & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, . including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.



Building element: Masonry

Application:	Retrofit cell only in ductwork riser branch hard to slab
Maximum size:	300 x 300
FRL	-/120/-
Test reference No.	FAS200229

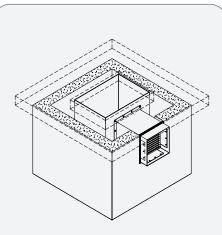
Ducted - Retro-fit



	or steel pop rivets as per the system drawing
Step 2	Position damper inside ductwork within the wall thickness as per system drawing and fix mounting angles or plates with steel self-drilling screws, pop rivets or spot welds
Step 3	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper, damper casing & building element. Ensure fill depth corresponds with those detailed in the system drawing by using IBS backing rod
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 5	Connect ductwork to the damper casing with AS1682.2 compliant breakaway joint

System Notes

- Angles, brackets, plates, IBS backing rod & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.



 Building element:
 Hebel

 Application:
 Retrofit cell only in ductwork riser branch hard to slab

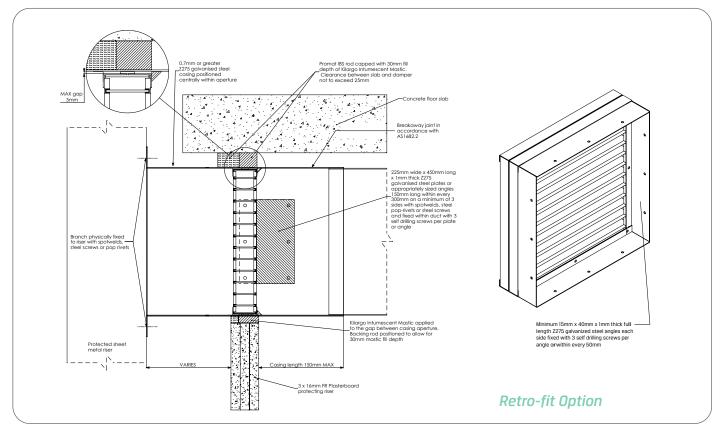
 Maximum size:
 300 x 300

 FRL
 -/120/

 Test reference No.
 FAS200229

System No. WSRF2s

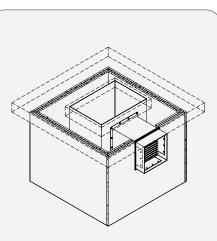
Ducted - Retro-fit



Step 1	Fasten mounting angles or plates to damper with steel self-drilling screws or steel pop rivets as per the system drawing
Step 2	Position damper inside ductwork within the wall thickness as per system drawing and fix mounting angles or plates with steel self-drilling screws, pop rivets or spot welds
Step 3	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper, damper casing & building element. Ensure fill depth corresponds with those detailed in the system drawing by using IBS backing rod
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 5	Connect ductwork to the damper casing with AS1682.2 compliant breakaway joint

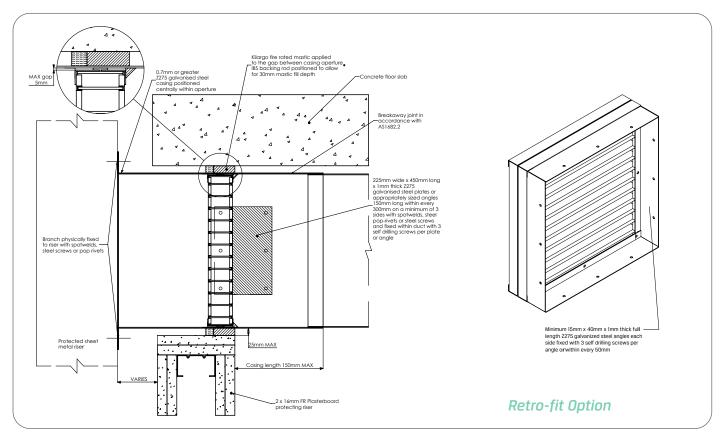
System Notes

- Angles, brackets, plates, IBS backing rod & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.



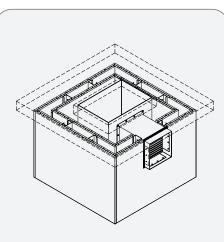
Building element:	Plasterboard 3 x 16
Application:	Retrofit cell only in ductwork riser branch hard to slab
Maximum size:	300 x 300
FRL	-/120/-
Test reference No.	FAS200229

Ducted - Retro-fit



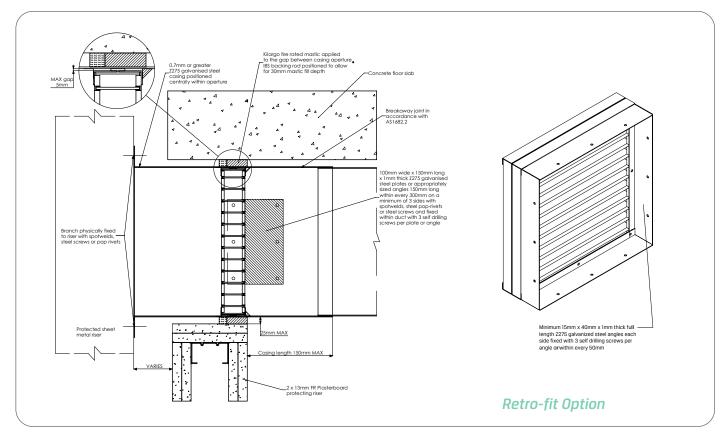
Step 1	Fasten mounting angles or plates to damper with steel self-drilling screws or steel pop rivets as per the system drawing
Step 2	Position damper inside ductwork within the wall thickness as per system drawing and fix mounting angles or plates with steel self-drilling screws, pop rivets or spot welds
Step 3	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper, damper casing & building element. Ensure fill depth corresponds with those detailed in the system drawing by using IBS backing rod
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 5	Connect ductwork to the damper casing with AS1682.2 compliant breakaway joint

- Angles, brackets, plates, IBS backing rod & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.



Building element:	Plasterboard 2 x 16
Application:	Retrofit cell only in ductwork riser branch hard to slab
Maximum size:	300 x 300
FRL	-/120/-
Test reference No.	FAS200229
System No.	WSRF4s

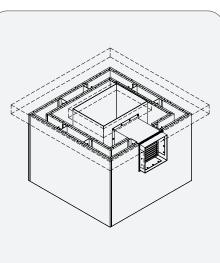
Ducted - Retro-fit



Step 1	Fasten mounting angles or plates to damper with steel self-drilling screws or steel pop rivets as per the system drawing
Step 2	Position damper inside ductwork within the wall thickness as per system drawing and fix mounting angles or plates with steel self-drilling screws, pop rivets or spot welds
Step 3	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper, damper casing & building element. Ensure fill depth corresponds with those detailed in the system drawing by using IBS backing rod
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 5	Connect ductwork to the damper casing with AS1682.2 compliant breakaway joint

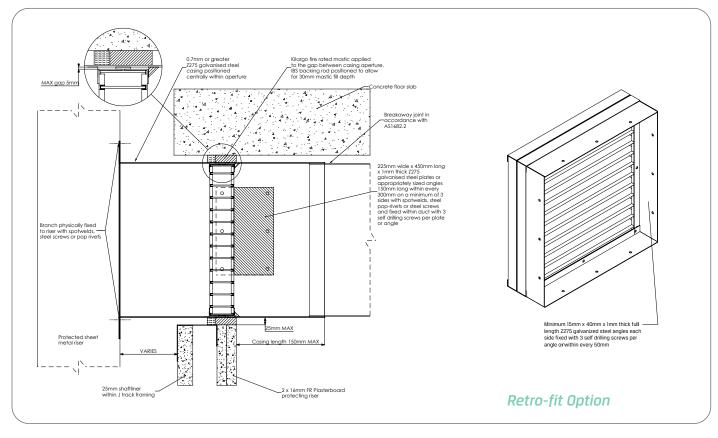
System Notes

- Angles, brackets, plates, IBS backing rod & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.



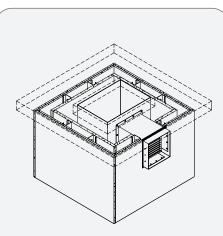
Building element:	Plasterboard 2 x 13
Application:	Retrofit cell only in ductwork riser branch hard to slab
Maximum size:	300 x 300
FRL	-/120/-
Test reference No.	FAS200229

Ducted - Retro-fit



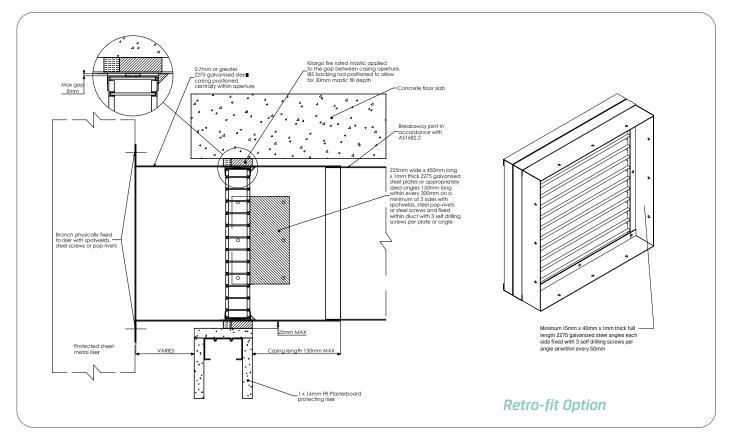
Step 1	Fasten mounting angles or plates to damper with steel self-drilling screws or steel pop rivets as per the system drawing
Step 2	Position damper inside ductwork within the wall thickness as per system drawing and fix mounting angles or plates with steel self-drilling screws, pop rivets or spot welds
Step 3	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper, damper casing & building element. Ensure fill depth corresponds with those detailed in the system drawing by using IBS backing rod
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 5	Connect ductwork to the damper casing with AS1682.2 compliant breakaway joint

- Angles, brackets, plates, IBS backing rod & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.



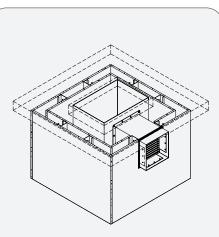
Building element:	Plasterboard 1 x 25 liner + 2 x 13 or 16 layers
Application:	Retrofit cell only in ductwork riser branch hard to slab
Maximum size:	300 x 300
FRL	-/120/-
Test reference No.	FAS200229
System No.	WSRF6s

Ducted - Retro-fit



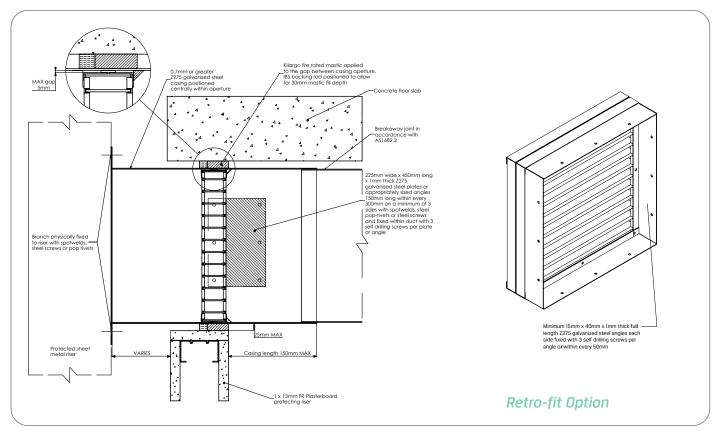
Step 1	Fasten mounting angles or plates to damper with steel self-drilling screws or steel pop rivets as per the system drawing
Step 2	Position damper inside ductwork within the wall thickness as per system drawing and fix mounting angles or plates with steel self-drilling screws, pop rivets or spot welds
Step 3	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper, damper casing & building element. Ensure fill depth corresponds with those detailed in the system drawing by using IBS backing rod
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 5	Connect ductwork to the damper casing with AS1682.2 compliant breakaway joint.

- Angles, brackets, plates, IBS backing rod & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.



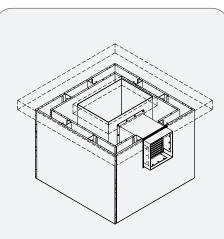
Building element:	Plasterboard 1 x 16
Application:	Retrofit cell only in ductwork riser branch hard to slab
Maximum size:	300 x 300
FRL	-/90/-
Test reference No.	FAS200229

Ducted - Retro-fit



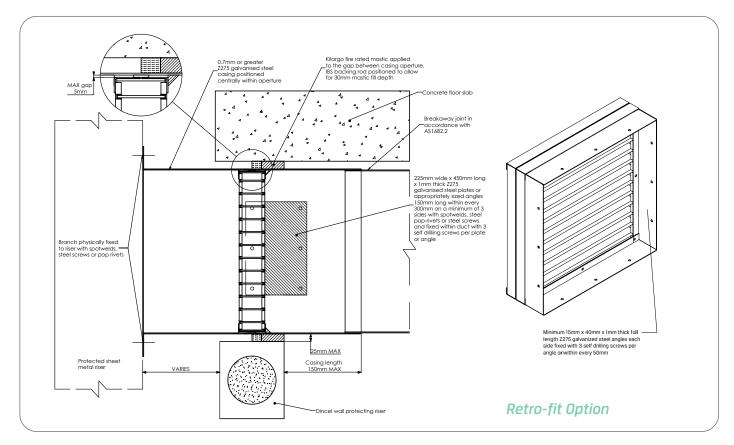
Step 1	Fasten mounting angles or plates to damper with steel self-drilling screws or steel pop rivets as per the system drawing
Step 2	Position damper inside ductwork within the wall thickness as per system drawing and fix mounting angles or plates with steel self-drilling screws, pop rivets or spot welds
Step 3	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper, damper casing & building element. Ensure fill depth corresponds with those detailed in the system drawing by using IBS backing rod
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 5	Connect ductwork to the damper casing with AS1682.2 compliant breakaway joint

- Angles, brackets, plates, IBS backing rod & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.



Building element:	Plasterboard 1 x 13
Application:	Retrofit cell only in ductwork riser branch hard to slab
Maximum size:	300 x 300
FRL	-/60/-
Test reference No.	FAS200229
System No.	WSRF8s

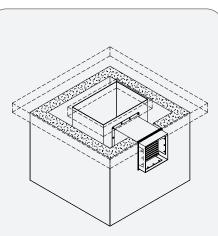
Ducted - Retro-fit



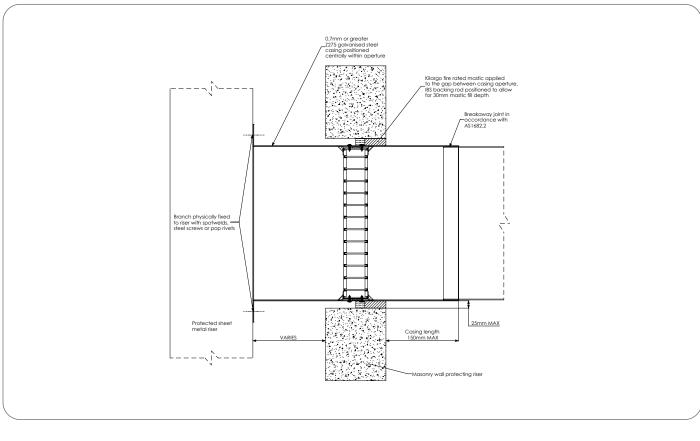
Step 1	Fasten mounting angles or plates to damper with steel self-drilling screws or steel pop rivets as per the system drawing
Step 2	Position damper inside ductwork within the wall thickness as per system drawing and fix mounting angles or plates with steel self-drilling screws, pop rivets or spot welds
Step 3	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper, damper casing & building element. Ensure fill depth corresponds with those detailed in the system drawing by using IBS backing rod
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 5	Connect ductwork to the damper casing with AS1682.2 compliant breakaway joint

System Notes

- Angles, brackets, plates, IBS backing rod & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.

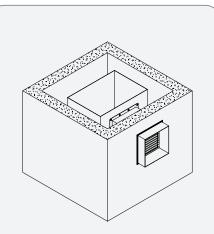


Building element:	Dincel
Application:	Retrofit cell only in ductwork riser branch hard to slab
Maximum size:	300 x 300
FRL	-/120/-
Test reference No.	FAS200229



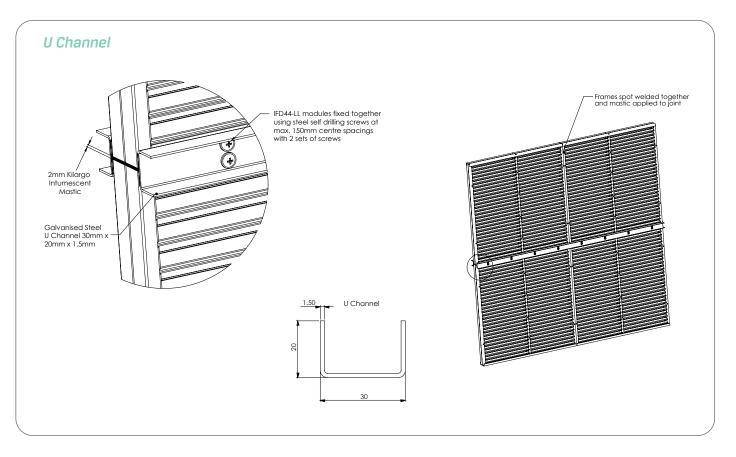
Step 1	Position and fix damper into ductwork with steel screws or pop rivets as per system drawing ensuring that the damper will be aligned and within the fire separating shaft wall once the duct is attached to the riser.
Step 2	Seal internal gap between damper and duct with Kilargo Intumescent Mastic as per system drawing.
Step 3	Mechanically connect duct to riser with steel screws or steel pop rivets.
Step 4	Once shaftwall has been constructed, firestop gaps between the duct and shaftwall with Kilargo Intumescent Mastic (supplied separately). Ensure fill depth corresponds with those detailed in the system drawing. Note: A maximum perimeter clearance of 25mm applies. Use IBS backing rod to control fill depth.
Step 5	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections.
Step 6	When connecting ductwork to the damper casing, use AS1682.2 compliant breakaway joint.

- Fixings & IBS backing rod are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- Fire damper insulation requirements are not required for shaft mounted fire damper as per AS 1668.1:2015 cl 3.2.3.1 (a).
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.



Building element:	Masonry
Application:	Mounted in casing - angle free riser connection
Maximum size:	600 x 600 or 0.36 m2
FRL	-/120/-
Test reference No.	FAS200229
System No.	WSW1 (a)

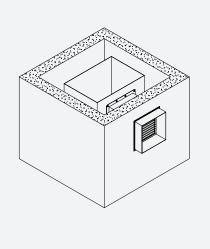
Ducted - Modular



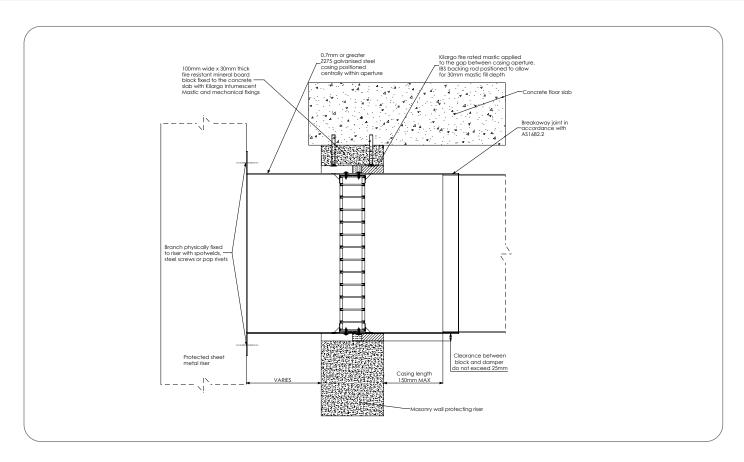
Step 1	Apply Kilargo Intumescent Mastic to the opposing module
Step 2	Align and bring modules together and mechanically fix together using U channels and steel self-drilling screws or steel pop rivets with 2 sets of screws at 150mm centres as per the modular system drawing on both sides
Step 3	Fix modular damper to aperture or casing as shown in the appropriate system drawing and installation instructions

System Notes

- Fixings are to be supplied by others.
- Optional flat joining strips supplied at the time of order in lieu of U channel on request for air transfer systems only.

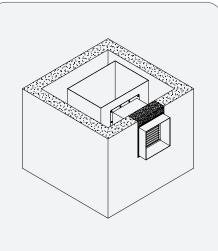


Building element:	Masonry
Application:	Mounted in casing - angle free riser connection
Maximum size:	600 x 600 or 0.36 m2
FRL	-/120/-
Test reference No.	FAS200229
<i>Note:</i> To be read in conjunction with system WSW1 (a)	

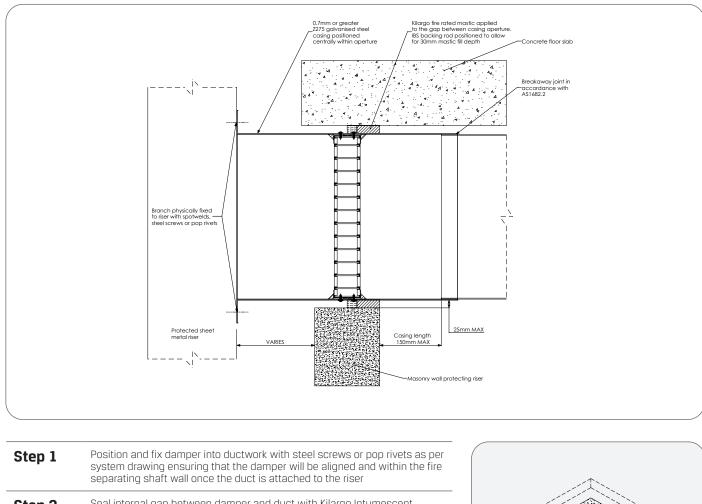


Step 1	Position and fix damper into ductwork with steel screws or pop rivets as per system drawing ensuring that the damper will be aligned and within the fire separating shaft wall once the duct is attached to the riser
Step 2	Seal internal gap between damper and duct with Kilargo Intumescent Mastic as per system drawing
Step 3	Measure and cut 100mm wide x 30mm thick fire-resistant mineral board packer (supplied by others) to match the damper width
Step 4	Mechanically fix 100mm wide x 30mm thick fire-resistant mineral board packer to concrete slab, with Kilargo Intumescent Mastic in between, and steel anchors as per system drawings
Step 5	Mechanically connect duct to riser with steel screws or steel pop rivets
Step 6	Once shaftwall has been constructed, firestop gaps between the duct and shaftwall with Kilargo Intumescent Mastic (supplied separately). Ensure fill depth corresponds with those detailed in the system drawing. Note: A maximum perimeter clearance of 25mm applies. Use IBS backing rod to control fill depth
Step 7	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 8	When connecting ductwork to the damper casing, use AS1682.2 compliant breakaway joint

- Casing, fire-resistant mineral board packer, IBS backing rod & fixings are to be supplied by others.
 Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including
- the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
 Ensure convenient access is provided for visual inspection and cleaning as necessary.
- Fire damper insulation requirements are not required for shaft mounted fire damper as per AS 1668.1:2015 cl 3.2.3.1 (a).
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.



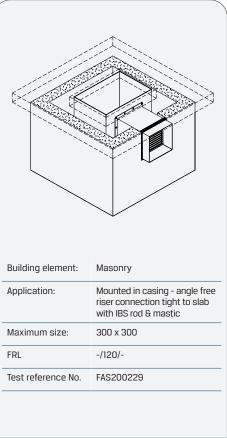
Building element:	Masonry
Application:	Mounted in casing - angle free riser connection tight to slab with packer
Maximum size:	300 x 300
FRL	-/120/-
Test reference No.	FAS200229
System No.	WSW2

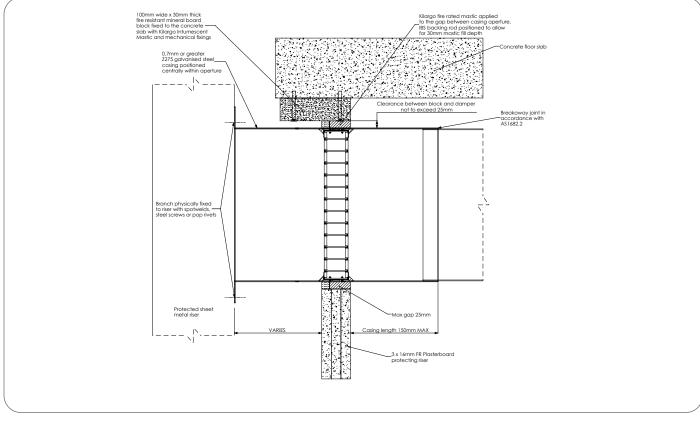


Step 2	Seal internal gap between damper and duct with Kilargo Intumescent Mastic as per system drawing	
Step 3	Mechanically connect duct to riser with steel screws or steel pop rivets	
Step 4	Once shaftwall has been constructed, firestop gaps between the duct and shaftwall with Kilargo Intumescent Mastic (supplied separately). Ensure fill depth corresponds with those detailed in the system drawing. Note: A maximum perimeter clearance of 25mm applies. Use IBS backing rod to control fill depth	
Step 5	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections	
Step 6	When connecting ductwork to the damper casing, use AS1682.2 compliant breakaway joint.	

System Notes

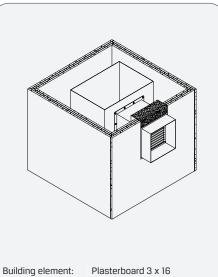
- Fixings & IBS backing rod are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- Fire damper insulation requirements are not required for shaft mounted fire damper as per AS 1668.1:2015 cl 3.2.3.1 (a).
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.



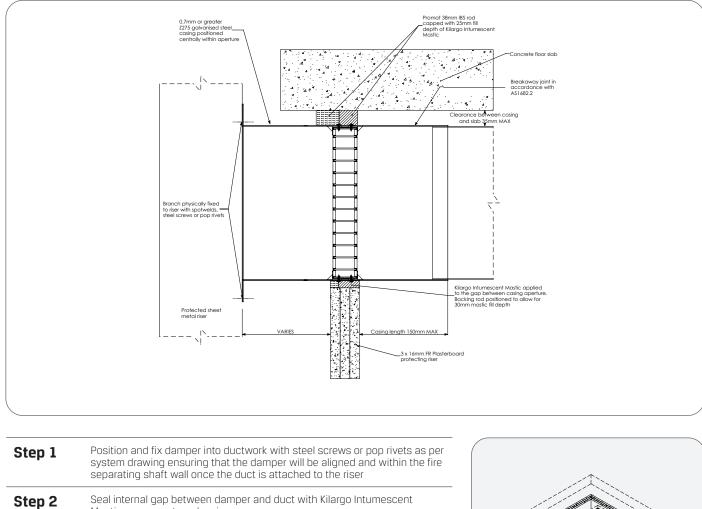


Step 2Seal internal gap between damper and duct with Kilargo Intumescent Mastic as per system drawing	
Step 3 Measure and cut 100mm wide x 30mm thick fire-resistant mineral board packer (supplied by others) to match the damper width	
Step 4 Mechanically fix 100mm wide x 30mm thick fire-resistant mineral board packer to concrete slab, with Kilargo Intumescent Mastic in between, and steel anchors as per system drawings	
Step 5 Mechanically connect duct to riser with steel screws or steel pop rivets	
Step 6 Once shaftwall has been constructed, firestop gaps between the duct and shaftwall with Kilargo Intumescent Mastic (supplied separately). Ensure fill depth corresponds with those detailed in the system drawing. Note: A maximum perimeter clearance of 25mm applies. Use IBS backing rod to control fill depth	
Step 7 Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections	
Step 8When connecting ductwork to the damper casing, use AS1682.2 complian breakaway joint	t

- Casing, fire-resistant mineral board packer, IBS backing rod & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- Fire damper insulation requirements are not required for shaft mounted fire damper as per AS 1668.1:2015 cl 3.2.3.1 (a).
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.

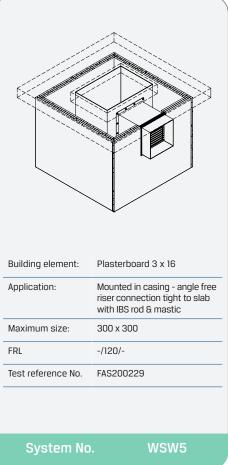


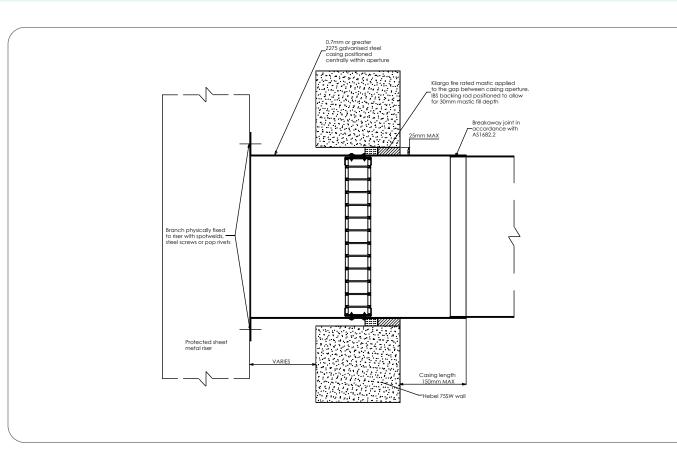
Application:	Mounted in casing - angle free riser connection tight to slab with packer
Maximum size:	300 x 300
FRL	-/120/-
Test reference No.	FAS200229
System No.	WSW4



-	Mastic as per system drawing
Step 3	Mechanically connect duct to riser with steel screws or steel pop rivets
Step 4	Once shaftwall has been constructed, firestop gaps between the duct and shaftwall with Kilargo Intumescent Mastic (supplied separately). Ensure fill depth corresponds with those detailed in the system drawing. Note: A maximum perimeter clearance of 25mm applies. Use IBS backing rod to control fill depth
Step 5	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 6	When connecting ductwork to the damper casing, use AS1682.2 compliant breakaway joint

- Fixings & IBS backing rod are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- Fire damper insulation requirements are not required for shaft mounted fire damper as per AS 1668.1:2015 cl 3.2.3.1 (a).
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.

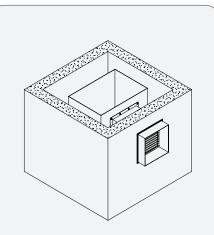




Step 1	Position and fix damper into ductwork with steel screws or pop rivets as per system drawing ensuring that the damper will be aligned and within the fire separating shaft wall once the duct is attached to the riser
	Separating shart wail once the duct is attached to the riser
Step 2	Seal internal gap between damper and duct with Kilargo Intumescent Mastic as per system drawing
Step 3	Mechanically connect duct to riser with steel screws or steel pop rivets
Step 4	Once shaftwall has been constructed, firestop gaps between the duct and shaftwall with Kilargo Intumescent Mastic (supplied separately). Ensure fill depth corresponds with those detailed in the system drawing. Note: A maximum perimeter clearance of 25mm applies. Use IBS backing rod to control fill depth
Step 5	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 6	When connecting ductwork to the damper casing, use AS1682.2 compliant breakaway joint

System Notes

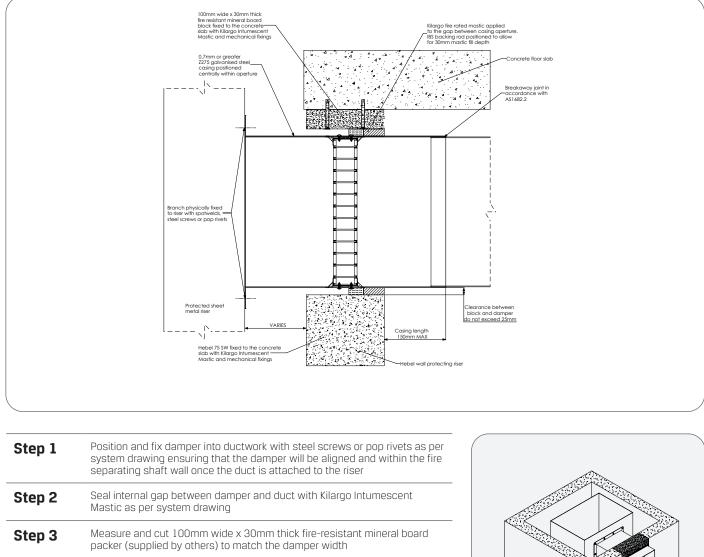
- Fixings & IBS backing rod are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- Fire damper insulation requirements are not required for shaft mounted fire damper as per AS 1668.1:2015 cl 3.2.3.1 (a).
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.



Building element: Hebel

Application:	Mounted in casing - angle free riser connection
Maximum size:	300 x 300 *without build up
FRL	-/120/-
Test reference No.	FAS200229

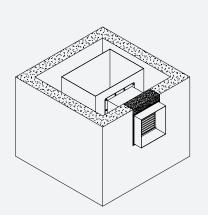
*Max size 600 x 600 if wall thickness is built up locally with 100mm wide FR plasterboard to a minimum thickness of 116mm



Step 4	Mechanically fix 100mm wide x 30mm thick fire-resistant mineral board packer to concrete slab, with Kilargo Intumescent Mastic in between, and steel anchors as per system drawings
Step 5	Mechanically connect duct to riser with steel screws or steel pop rivets
Step 6	Once shaftwall has been constructed, firestop gaps between the duct and shaftwall with Kilargo Intumescent Mastic (supplied separately). Ensure fill depth corresponds with those detailed in the system drawing. Note: A maximum perimeter clearance of 25mm applies. Use IBS backing rod to control fill depth
Step 7	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 8	When connecting ductwork to the damper casing, use AS1682.2 compliant breakaway joint

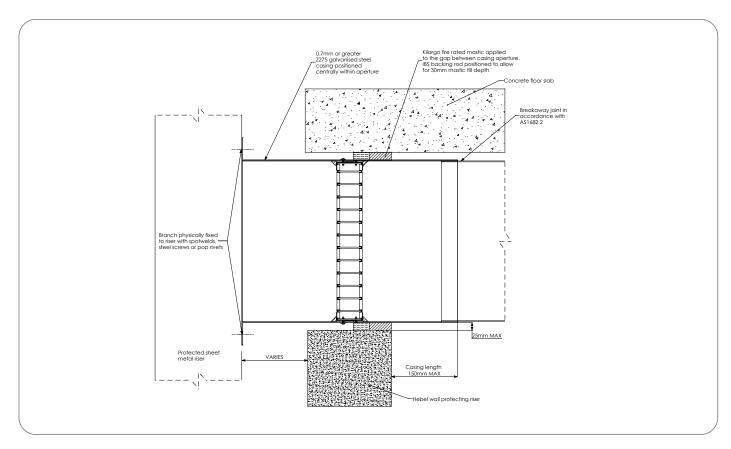
System Notes

- Casing, fire-resistant mineral board packer, IBS backing rod & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- Fire damper insulation requirements are not required for shaft mounted fire damper as per AS 1668.1:2015 cl 3.2.3.1 (a).
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.



Building element: Hebel

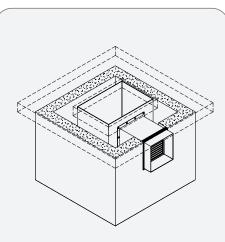
Application:	Mounted in casing - angle free riser connection tight to slab with packer
Maximum size:	300 x 300
FRL	-/120/-
Test reference No.	FAS200229
System No	. WSW7



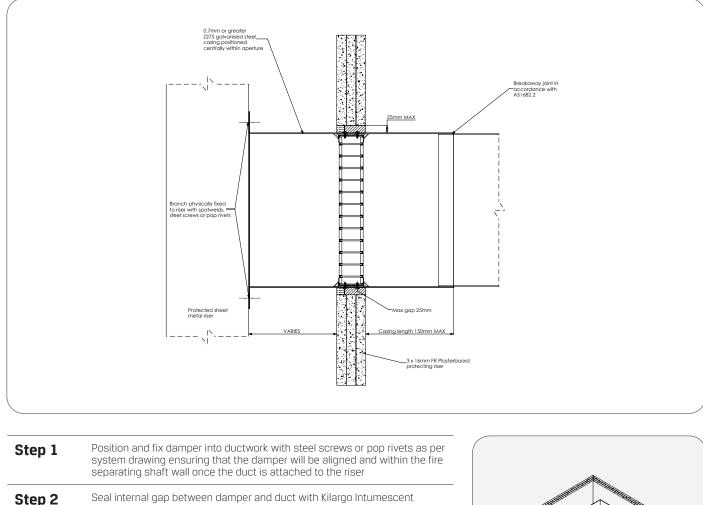
Step 1	Position and fix damper into ductwork with steel screws or pop rivets as per system drawing ensuring that the damper will be aligned and within the fire separating shaft wall once the duct is attached to the riser
Step 2	Seal internal gap between damper and duct with Kilargo Intumescent Mastic as per system drawing
Step 3	Mechanically connect duct to riser with steel screws or steel pop rivets
Step 4	Once shaftwall has been constructed, firestop gaps between the duct and shaftwall with Kilargo Intumescent Mastic (supplied separately). Ensure fill depth corresponds with those detailed in the system drawing. Note: A maximum perimeter clearance of 25mm applies. Use IBS backing rod to control fill depth
Step 5	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 6	When connecting ductwork to the damper casing, use AS1682.2 compliant breakaway joint

System Notes

- Fixings & IBS backing rod are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- Fire damper insulation requirements are not required for shaft mounted fire damper as per AS 1668.1:2015 cl 3.2.3.1 (a).
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.



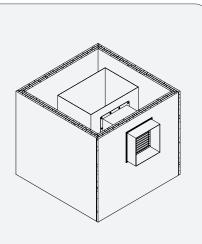
Building element:HebelApplication:Mounted in casing - angle
free riser connection tight to
slab with IBS rod & masticMaximum size:300 x 300FRL-/120/-Test reference No.FAS200229



Step 2	Mastic as per system drawing
Step 3	Mechanically connect duct to riser with steel screws or steel pop rivets
Step 4	Once shaftwall has been constructed, firestop gaps between the duct and shaftwall with Kilargo Intumescent Mastic (supplied separately). Ensure fill depth corresponds with those detailed in the system drawing. Note: A maximum perimeter clearance of 25mm applies. Use IBS backing rod to control fill depth
Step 5	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 6	When connecting ductwork to the damper casing, use AS1682.2 compliant breakaway joint

System Notes

- Fixings & IBS backing rod are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- Fire damper insulation requirements are not required for shaft mounted fire damper as per AS 1668.1:2015 cl 3.2.3.1 (a).
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.

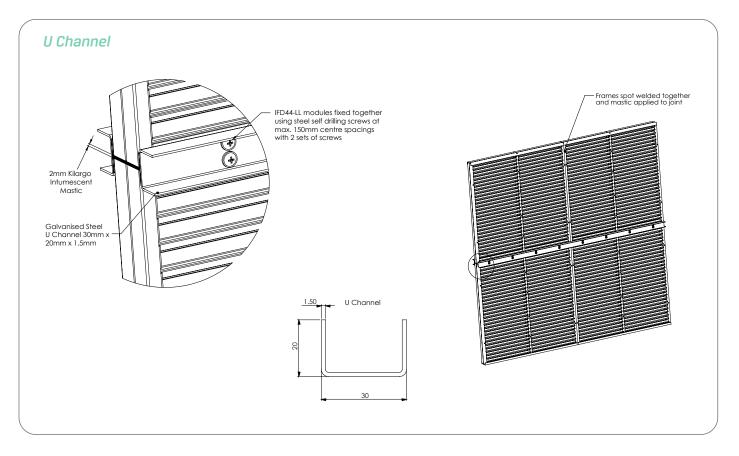


Building element:	Plasterboard 3 x 16
Application:	Mounted in casing - angle free riser connection
Maximum size:	600 x 600 or 0.36 m2
FRL	-/120/-
Test reference No.	FAS200229

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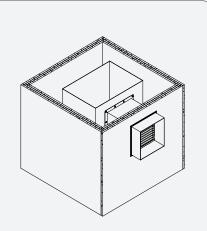
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Ducted - Modular

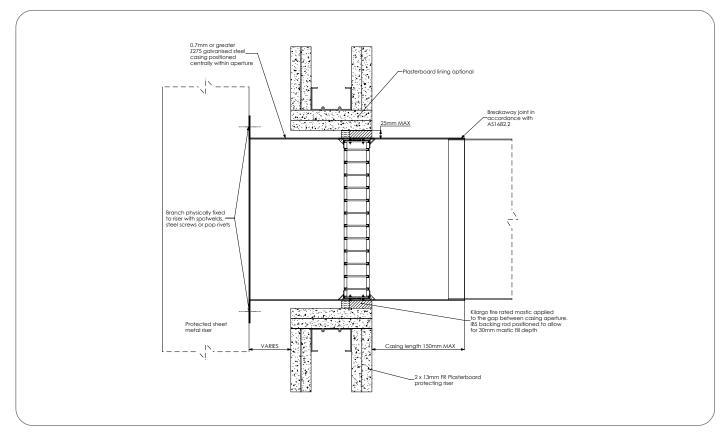


Step 1	Apply Kilargo Intumescent Mastic to the opposing module
Step 2	Align and bring modules together and mechanically fix together using U channels and steel self-drilling screws or steel pop rivets with 2 sets of screws at 150mm centres as per the modular system drawing on both sides
Step 3	Fix modular damper to aperture or casing as shown in the appropriate system drawing and installation instructions

- Fixings are to be supplied by others.
- Optional flat joining strips supplied at the time of order in lieu of U channel on request for air transfer systems only.



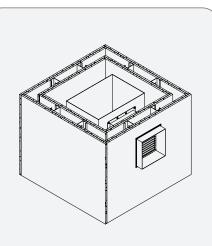
Building element:	Plasterboard 3 x 16	
Application:	Mounted in casing - angle free riser connection	
Maximum size:	600 x 600 or 0.36 m2	
FRL	-/120/-	
Test reference No.	FAS200229	
<i>Note:</i> To be read in conjunction with system WSW9 (a)		
System No.	WSW9 (b)	



Step 1	Position and fix damper into ductwork with steel screws or pop rivets as per system drawing ensuring that the damper will be aligned and within the fire separating shaft wall once the duct is attached to the riser
Step 2	Seal internal gap between damper and duct with Kilargo Intumescent Mastic as per system drawing
Step 3	Mechanically connect duct to riser with steel screws or steel pop rivets
Step 4	Once shaftwall has been constructed, firestop gaps between the duct and shaftwall with Kilargo Intumescent Mastic (supplied separately). Ensure fill depth corresponds with those detailed in the system drawing. Note: A maximum perimeter clearance of 25mm applies. Use IBS backing rod to control fill depth
Step 5	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 6	When connecting ductwork to the damper casing, use AS1682.2 compliant breakaway joint

System Notes

- Fixings & IBS backing rod are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- Fire damper insulation requirements are not required for shaft mounted fire damper as per AS 1668.1:2015 cl 3.2.3.1 (a).
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.

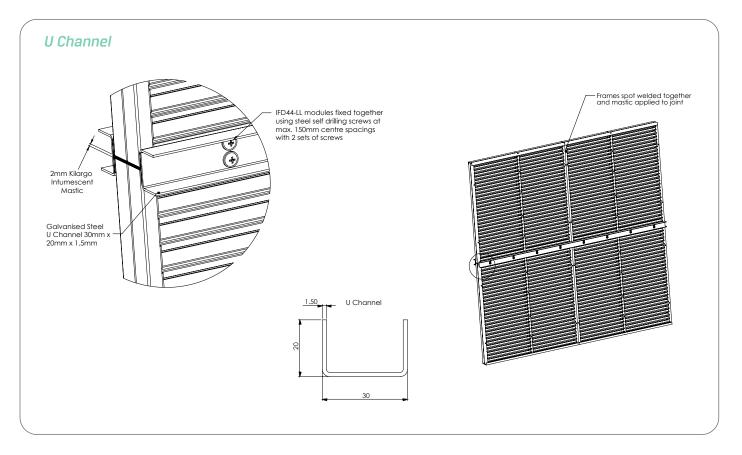


Building element:	Plasterboard 2 x 16
Application:	Mounted in casing - angle free riser connection
Maximum size:	600 x 600 or 0.36 m2
FRL	-/120/-
Test reference No.	FAS200229

System No.

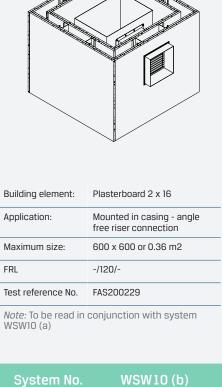
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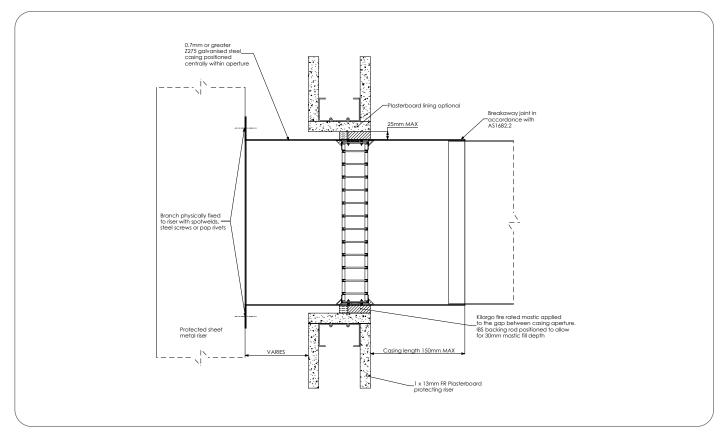
Ducted - Modular



Step 1	Apply Kilargo Intumescent Mastic to the opposing module
Step 2	Align and bring modules together and mechanically fix together using U channels and steel self-drilling screws or steel pop rivets with 2 sets of screws at 150mm centres as per the modular system drawing on both sides
Step 3	Fix modular damper to aperture or casing as shown in the appropriate system drawing and installation instructions

- Fixings are to be supplied by others.
- Optional flat joining strips supplied at the time of order in lieu of U channel on request for air transfer systems only.

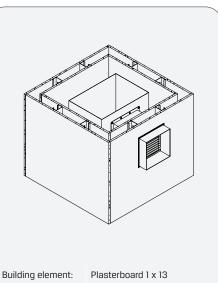




Step 1	Position and fix damper into ductwork with steel screws or pop rivets as per system drawing ensuring that the damper will be aligned and within the fire separating shaft wall once the duct is attached to the riser
Step 2	Seal internal gap between damper and duct with Kilargo Intumescent Mastic as per system drawing.
Step 3	Mechanically connect duct to riser with steel screws or steel pop rivets
Step 4	Once shaftwall has been constructed, firestop gaps between the duct and shaftwall with Kilargo Intumescent Mastic (supplied separately). Ensure fill depth corresponds with those detailed in the system drawing. Note: A maximum perimeter clearance of 25mm applies. Use IBS backing rod to control fill depth
Step 5	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 6	When connecting ductwork to the damper casing, use AS1682.2 compliant breakaway joint

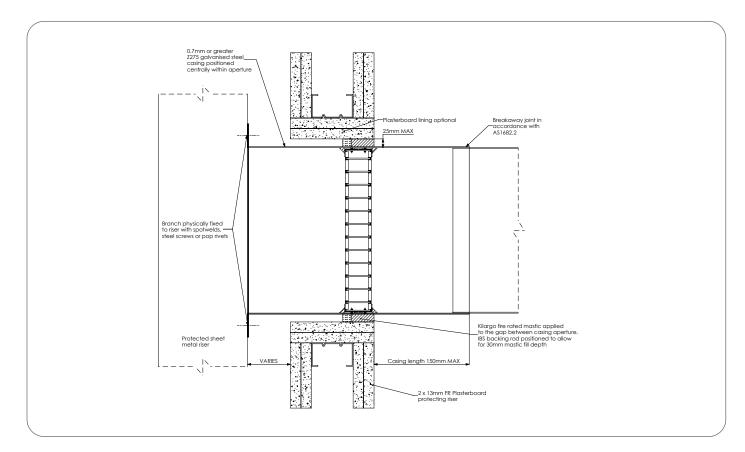
System Notes

- Fixings & IBS backing rod are to be supplied by others. .
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, . including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- Fire damper insulation requirements are not required for shaft mounted fire damper as per AS 1668.1:2015 cl 3.2.3.1 (a).
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.



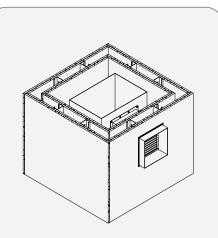
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Application:	Mounted in casing - angle free riser connection
Maximum size:	300 x 300 *without build up
FRL	-/60/-
Test reference No.	FAS200229

*Max size 600 x 600 if wall thickness is built up locally with 100mm wide FR plasterboard to a minimum thickness of 116mm



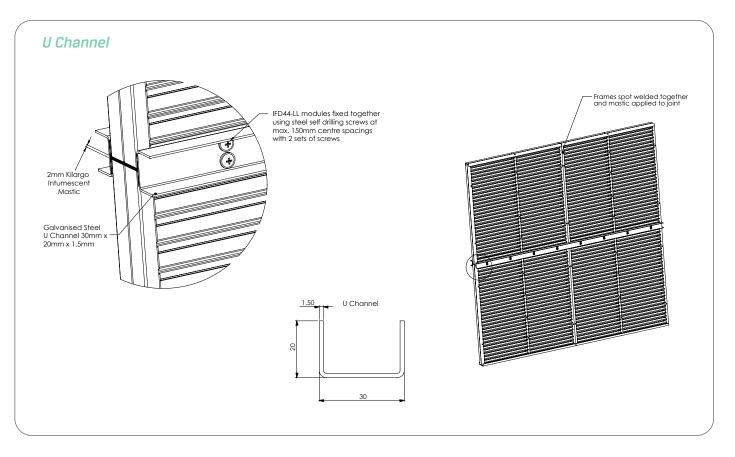
Step 1	Position and fix damper into ductwork with steel screws or pop rivets as per system drawing ensuring that the damper will be aligned and within the fire separating shaft wall once the duct is attached to the riser
Step 2	Seal internal gap between damper and duct with Kilargo Intumescent Mastic as per system drawing
Step 3	Mechanically connect duct to riser with steel screws or steel pop rivets
Step 4	Once shaftwall has been constructed, firestop gaps between the duct and shaftwall with Kilargo Intumescent Mastic (supplied separately). Ensure fill depth corresponds with those detailed in the system drawing. Note: A maximum perimeter clearance of 25mm applies. Use IBS backing rod to control fill depth
Step 5	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 6	When connecting ductwork to the damper casing, use AS1682.2 compliant breakaway joint

- Fixings & IBS backing rod are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- Fire damper insulation requirements are not required for shaft mounted fire damper as per AS 1668.1:2015 cl 3.2.3.1 (a).
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.



Building element:	Plasterboard 2 x 13
Application:	Mounted in casing - angle free riser connection
Maximum size:	600 x 600 or 0.36 m2
FRL	-/120/-
Test reference No.	FAS200229
System No.	WSW12 (a)

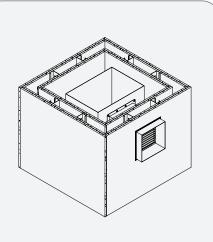
Ducted - Modular



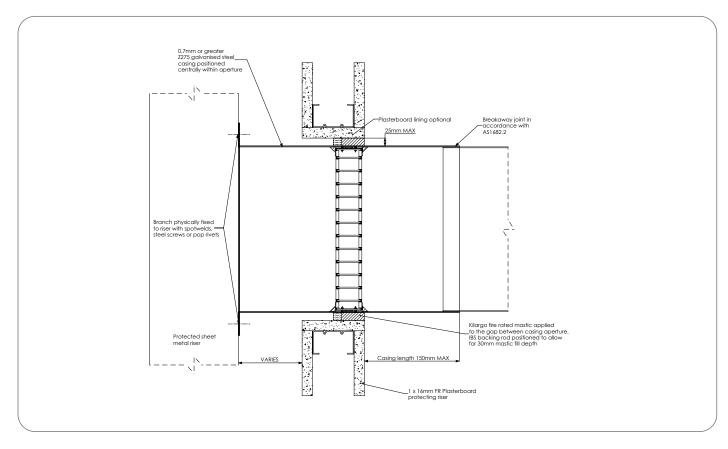
Step 1	Apply Kilargo Intumescent Mastic to the opposing module
Step 2	Align and bring modules together and mechanically fix together using U channels and steel self-drilling screws or steel pop rivets with 2 sets of screws at 150mm centres as per the modular system drawing on both sides
Step 3	Fix modular damper to aperture or casing as shown in the appropriate system drawing and installation instructions

System Notes

- Fixings are to be supplied by others.
- Optional flat joining strips supplied at the time of order in lieu of U channel on request for air transfer systems only.



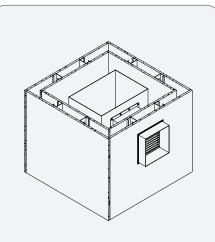
Building element:	Plasterboard 2 x 13
Application:	Mounted in casing - angle free riser connection
Maximum size:	600 x 600 or 0.36 m2
FRL	-/120/-
Test reference No.	FAS200229
<i>Note:</i> To be read in WSW12 (a)	conjunction with system



Step 1	Position and fix damper into ductwork with steel screws or pop rivets as per system drawing ensuring that the damper will be aligned and within the fire separating shaft wall once the duct is attached to the riser
Step 2	Seal internal gap between damper and duct with Kilargo Intumescent Mastic as per system drawing
Step 3	Mechanically connect duct to riser with steel screws or steel pop rivets
Step 4	Once shaftwall has been constructed, firestop gaps between the duct and shaftwall with Kilargo Intumescent Mastic (supplied separately). Ensure fill depth corresponds with those detailed in the system drawing. Note: A maximum perimeter clearance of 25mm applies. Use IBS backing rod to control fill depth
Step 5	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 6	When connecting ductwork to the damper casing, use AS1682.2 compliant breakaway joint

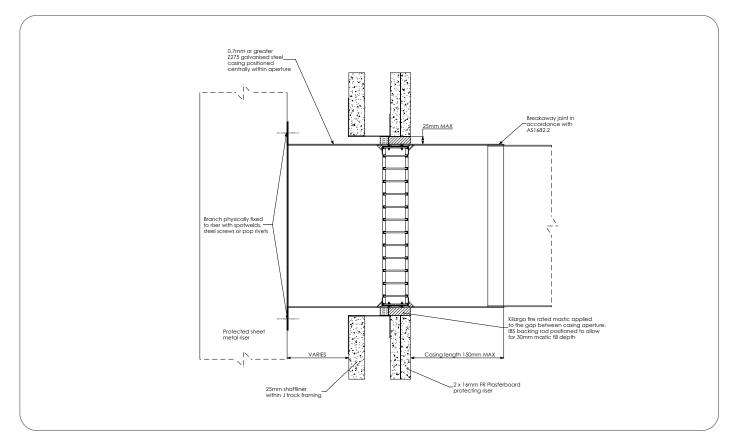
System Notes

- Fixings & IBS backing rod are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- Fire damper insulation requirements are not required for shaft mounted fire damper as per AS 1668.1:2015 cl 3.2.3.1 (a).
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.



Building element:	Plasterboard 1 x 16
Application:	Mounted in casing - angle free riser connection
Maximum size:	300 x 300 *without build up
FRL	-/90/-
Test reference No.	FAS200229
*Max size 600 x 60	n if wall thickness is built

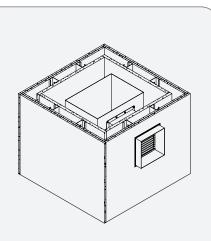
*Max size 600 x 600 if wall thickness is built up locally with 100mm wide FR plasterboard to a minimum thickness of 116mm



Step 1	Position and fix damper into ductwork with steel screws or pop rivets as per system drawing ensuring that the damper will be aligned and within the fire separating shaft wall once the duct is attached to the riser
Step 2	Seal internal gap between damper and duct with Kilargo Intumescent Mastic as per system drawing
Step 3	Mechanically connect duct to riser with steel screws or steel pop rivets
Step 4	Once shaftwall has been constructed, firestop gaps between the duct and shaftwall with Kilargo Intumescent Mastic (supplied separately). Ensure fill depth corresponds with those detailed in the system drawing. Note: A maximum perimeter clearance of 25mm applies. Use IBS backing rod to control fill depth
Step 5	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 6	When connecting ductwork to the damper casing, use AS1682.2 compliant breakaway joint

System Notes

- Fixings & IBS backing rod are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- Fire damper insulation requirements are not required for shaft mounted fire damper as per AS 1668.1:2015 cl 3.2.3.1 (a).
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.



Building element:	Plasterboard 1 x 25 liner + 2 x 13 or 16 layers
Application:	Mounted in casing - angle free riser connection
Maximum size:	600 x 600 or 0.36 m2
FRL	-/120/-
Test reference No.	FAS200229

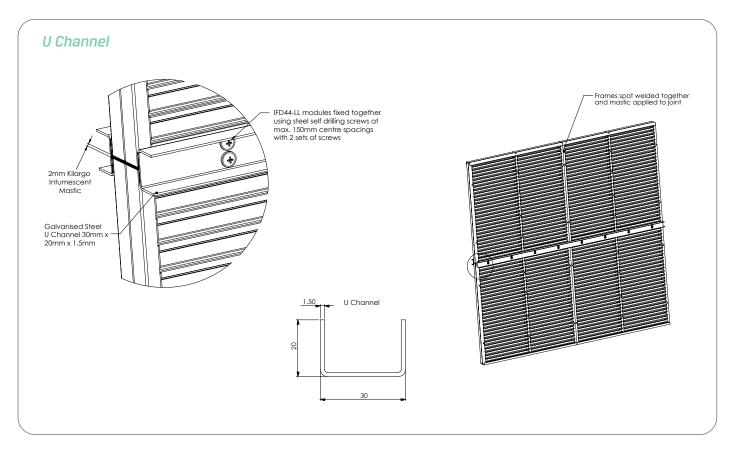
System No.

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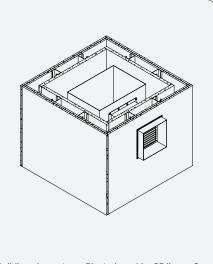
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Ducted - Modular

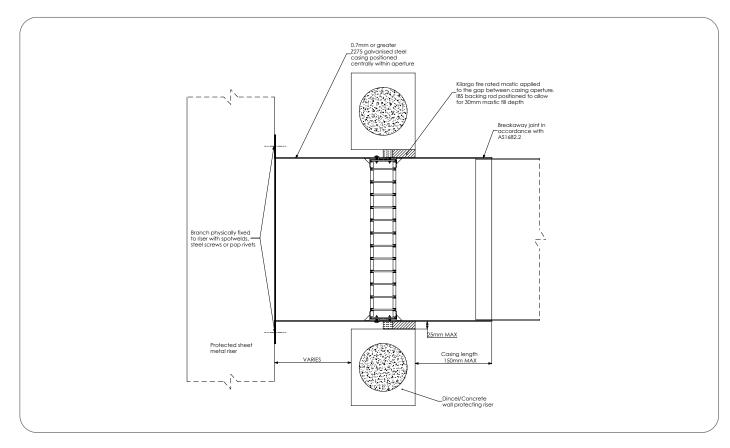


Step 1	Apply Kilargo Intumescent Mastic to the opposing module	
Step 2	Align and bring modules together and mechanically fix together using U channels and steel self-drilling screws or steel pop rivets with 2 sets of screws at 150mm centres as per the modular system drawing on both sides	
Step 3	Fix modular damper to aperture or casing as shown in the appropriate system drawing and installation instructions	

- Fixings are to be supplied by others.
- Optional flat joining strips supplied at the time of order in lieu of U channel on request for air transfer systems only.



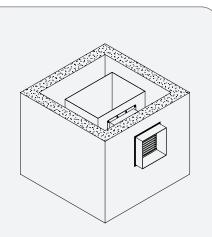
Building element:	Plasterboard 1 x 25 liner + 2 x 13 or 16 layers
Application:	Mounted in casing - angle free riser connection
Maximum size:	600 x 600 or 0.36 m2
FRL	-/120/-
Test reference No. FAS200229	
<i>Note:</i> To be read in conjunction with system WSW14 (a)	
System No.	WSW14 (b)



Step 1	Position and fix damper into ductwork with steel screws or pop rivets as per system drawing ensuring that the damper will be aligned and within the fire separating shaft wall once the duct is attached to the riser
Step 2	Seal internal gap between damper and duct with Kilargo Intumescent Mastic as per system drawing
Step 3	Mechanically connect duct to riser with steel screws or steel pop rivets
Step 4	Once shaftwall has been constructed, firestop gaps between the duct and shaftwall with Kilargo Intumescent Mastic (supplied separately). Ensure fill depth corresponds with those detailed in the system drawing. Note: A maximum perimeter clearance of 25mm applies. Use IBS backing rod to control fill depth
Step 5	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 6	When connecting ductwork to the damper casing, use AS1682.2 compliant breakaway joint

System Notes

- Fixings & IBS backing rod are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- Fire damper insulation requirements are not required for shaft mounted fire damper as per AS 1668.1:2015 cl 3.2.3.1 (a).
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.



Building element: Dincel

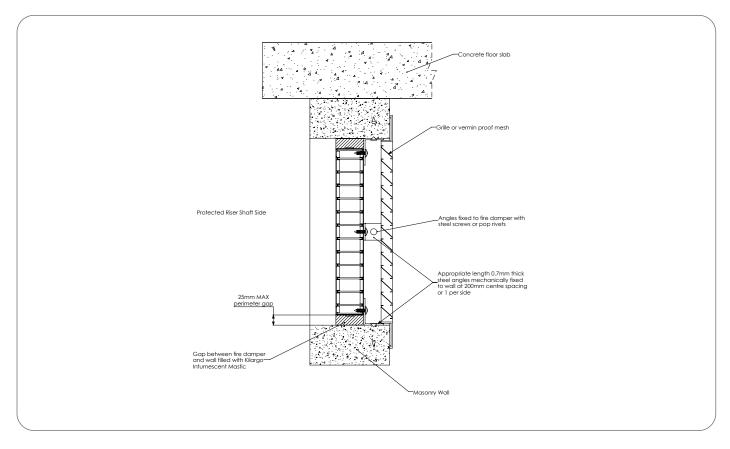
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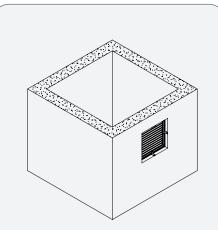
Application:	Mounted in casing - angle free riser connection
Maximum size:	600 x 600
FRL	-/120/-
Test reference No.	FAS200229

Air-Transfer



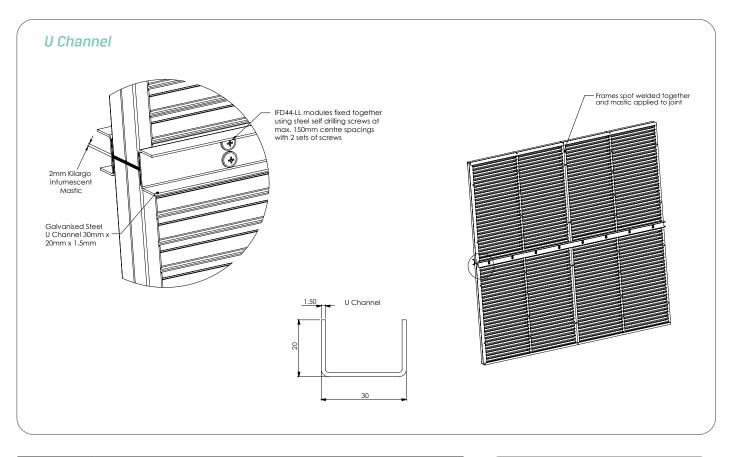
Step 1	Position damper centrally in penetration aperture as per system drawing with temporary supports or packers
Step 2	Fasten mounting angles or brackets to damper with steel self-drilling screws or steel pop rivets and to the building element with appropriate mechanical fixings as per system drawing
Step 3	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper & building element. Ensure fill depth corresponds with those detailed in the system drawing
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 5	Fix grille independently to the building element

- Grilles, louvres, vermin proof mesh, angles, brackets & fixings are to be supplied by others.
- Grille to be fixed independently to the building element and shall not be fixed to the fire damper.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- Fire damper insulation requirements are not required for shaft mounted fire damper as per AS 1668.1:2015 cl 3.2.3.1 (a).
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.



Building element:	Masonry
Application:	Cell only installed in riser with grille on one side
Maximum size:	600 x 600 or 0.36 m2
FRL	-/120/-
Test reference No.	FAS200229
System No.	WSW23 (a)

Air-Transfer - Modular

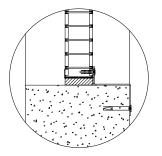


Step 1	Apply Kilargo Intumescent Mastic to the opposing module	
Step 2	Align and bring modules together and mechanically fix together using U channels and steel self-drilling screws or steel pop rivets with 2 sets of screws at 150mm centres as per the modular system drawing on both sides	
Step 3	Fix modular damper to aperture or casing as shown in the appropriate system drawing and installation instructions	

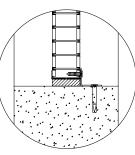
System Notes

- Fixings are to be supplied by others.
- Optional flat joining strips supplied at the time of order in lieu of U channel on request for air transfer systems only.

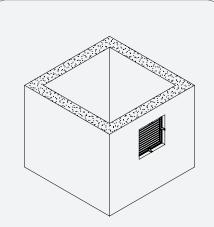
Alternative Fixing Methods



Z Bracket Fixing

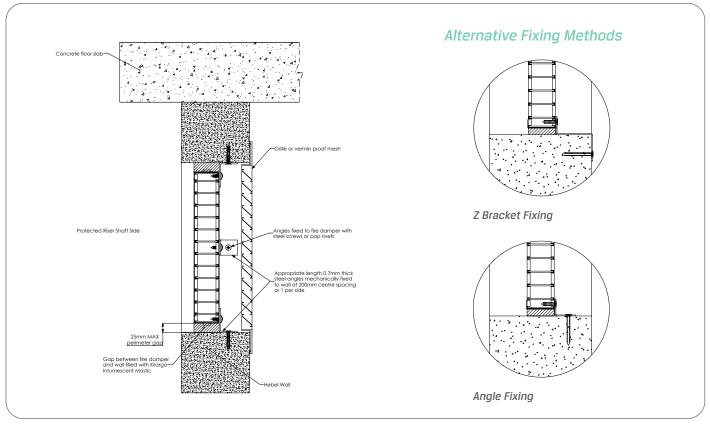






Building element:	Masonry
Application:	Cell only installed in riser with grille on one side
Maximum size:	600 x 600 or 0.36 m2
FRL	-/120/-
Test reference No.	FAS200229
<i>Note:</i> To be read in WSW23 (a)	conjunction with system

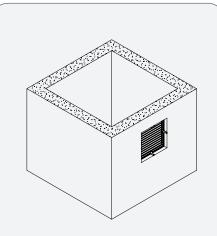
Air-Transfer



Step 1	Position damper centrally in penetration aperture as per system drawing with temporary supports or packers
Step 2	Fasten mounting angles or brackets to damper with steel self-drilling screws or steel pop rivets and to the building element with appropriate mechanical fixings as per system drawing
Step 3	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper & building element. Ensure fill depth corresponds with those detailed in the system drawing
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 5	Fix grille independently to the building element

System Notes

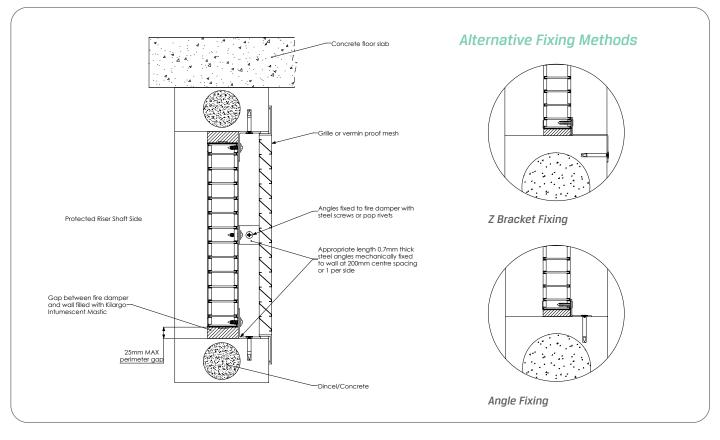
- Grilles, louvres, vermin proof mesh, angles, brackets & fixings are to be supplied by others.
- Grille to be fixed independently to the building element and shall not be fixed to the fire damper.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- Fire damper insulation requirements are not required for shaft mounted fire damper as per AS 1668.1:2015 cl 3.2.3.1 (a).
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.



Building element:	Hebel
Application:	Cell only installed in riser with grille on one side
Maximum size:	300 x 300 *without build up
FRL	-/120/-
Test reference No.	FAS200229
*Max size 600 x 600 if wall thickness is built	

*Max size 600 x 600 if wall thickness is built up locally with 100mm wide FR plasterboard to a minimum thickness of 116mm

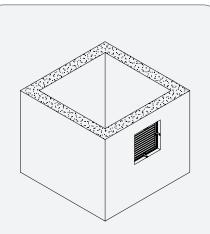
Air-Transfer



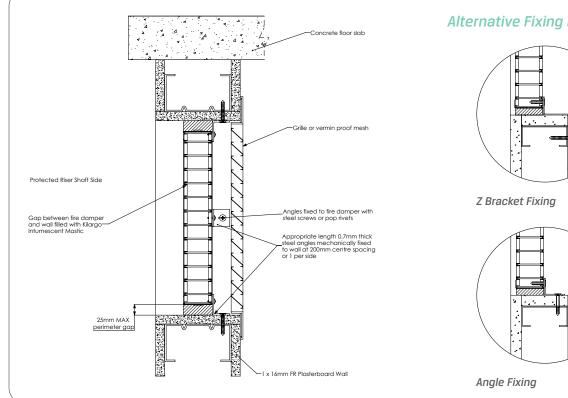
Step 1	Position damper centrally in penetration aperture as per system drawing with temporary supports or packers
Step 2	Fasten mounting angles or brackets to damper with steel self-drilling screws or steel pop rivets and to the building element with appropriate mechanical fixings as per system drawing
Step 3	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper & building element. Ensure fill depth corresponds with those detailed in the system drawing
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 5	Fix grille independently to the building element

System Notes

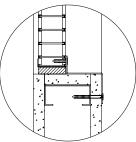
- Grilles, louvres, vermin proof mesh, angles, brackets & fixings are to be supplied by others.
- Grille to be fixed independently to the building element and shall not be fixed to the fire damper.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- Fire damper insulation requirements are not required for shaft mounted fire damper as per AS 1668.1:2015 cl 3.2.3.1 (a).
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.

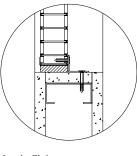


Building element:	Dincel
Application:	Cell only installed in riser with grille on one side
Maximum size:	600 x 600
FRL	-/120/-
Test reference No.	FAS200229



Alternative Fixing Methods

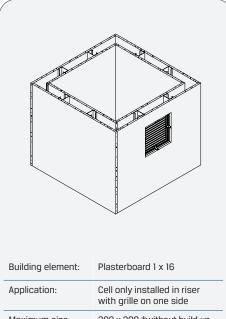




Step 1	Position damper centrally in penetration aperture as per system drawing with temporary supports or packers
Step 2	Fasten mounting angles or brackets to damper with steel self-drilling screws or steel pop rivets and to the building element with appropriate mechanical fixings as per system drawing
Step 3	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper & building element. Ensure fill depth corresponds with those detailed in the system drawing
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 5	Fix grille independently to the building element

System Notes

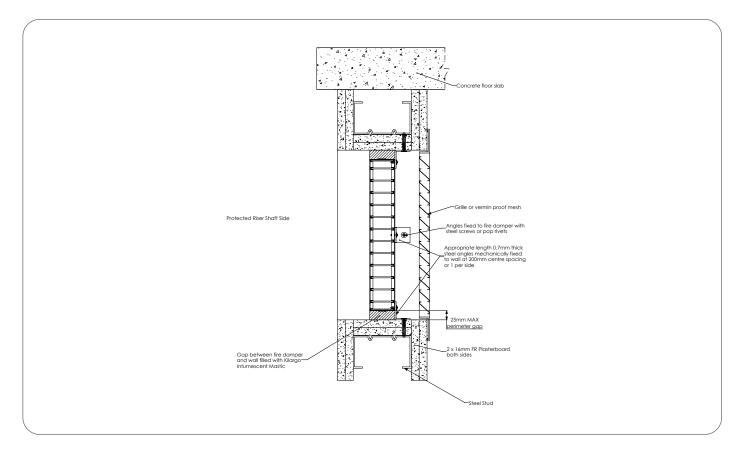
- Grilles, louvres, vermin proof mesh, angles, brackets & fixings are to be supplied by others.
- Grille to be fixed independently to the building element and shall not be fixed to the fire damper.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- Fire damper insulation requirements are not required for shaft mounted fire damper as per AS 1668.1:2015 cl 3.2.3.1 (a).
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.



Maximum size:	300 x 300 *without build up
FRL	-/90/-
Test reference No.	FAS200229

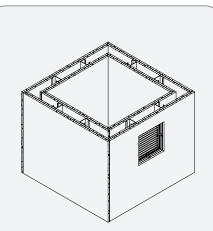
*Max size 600 x 600 if wall thickness is built up locally with 100mm wide FR plasterboard to a minimum thickness of 116mm

Air-Transfer



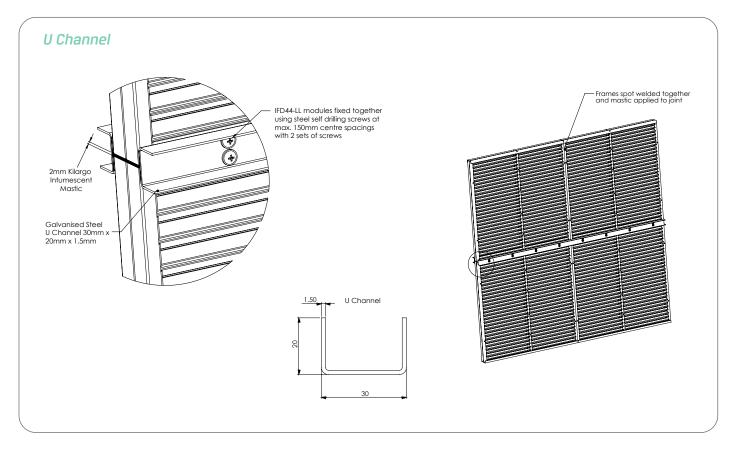
Step 1	Position damper centrally in penetration aperture as per system drawing with temporary supports or packers
Step 2	Fasten mounting angles or brackets to damper with steel self-drilling screws or steel pop rivets and to the building element with appropriate mechanical fixings as per system drawing
Step 3	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper & building element. Ensure fill depth corresponds with those detailed in the system drawing
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 5	Fix grille independently to the building element

- Grilles, louvres, vermin proof mesh, angles, brackets & fixings are to be supplied by others.
- Grille to be fixed independently to the building element and shall not be fixed to the fire damper.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- Fire damper insulation requirements are not required for shaft mounted fire damper as per AS 1668.1:2015 cl 3.2.3.1 (a).
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.



Building element:	Plasterboard 2 x 16
Application:	Cell only installed in riser with grille on one side
Maximum size:	600 x 600 or 0.36 m2
FRL	-/120/-
Test reference No.	FAS200229

Air-Transfer - Modular

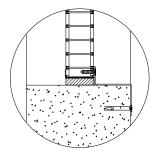


Step 1	Apply Kilargo Intumescent Mastic to the opposing module
Step 2	Align and bring modules together and mechanically fix together using U channels and steel self-drilling screws or steel pop rivets with 2 sets of screws at 150mm centres as per the modular system drawing on both sides
Step 3	Fix modular damper to aperture or casing as shown in the appropriate system drawing and installation instructions

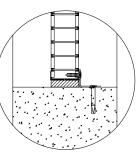
System Notes

- Fixings are to be supplied by others.
- Optional flat joining strips supplied at the time of order in lieu of U channel on request for air transfer systems only.

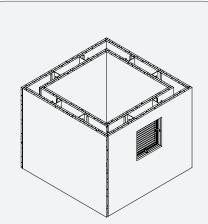
Alternative Fixing Methods



Z Bracket Fixing

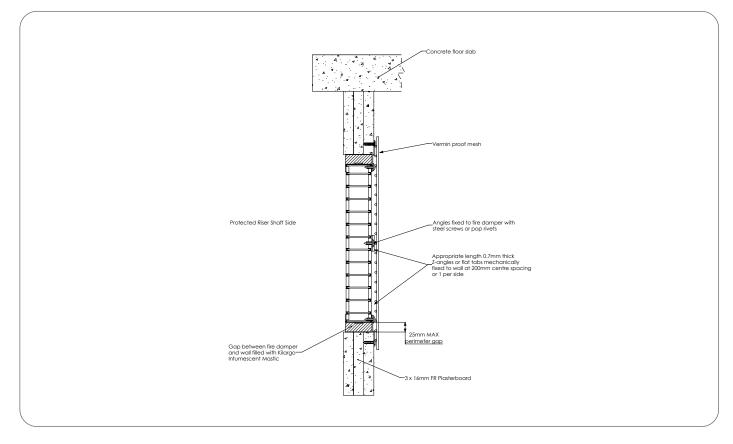


Angle Fixing



Building element:	Plasterboard 2 x 16
Application:	Cell only installed in riser with grille on one side
Maximum size:	600 x 600 or 0.36 m2
FRL	-/120/-
Test reference No.	FAS200229
<i>Note: To be read in conjunction with system</i> <i>WSW28 (a)</i>	
System No.	WSW28 (b)

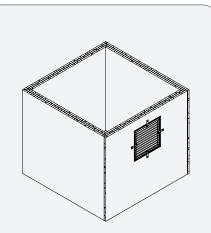
Air-Transfer



Step 1	Position damper centrally in penetration aperture as per system drawing with temporary supports or packers
Step 2	Fasten mounting angles or brackets to damper with steel self-drilling screws or steel pop rivets and to the building element with appropriate mechanical fixings as per system drawing
Step 3	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper & building element. Ensure fill depth corresponds with those detailed in the system drawing
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 5	Fix grille independently to the building element

System Notes

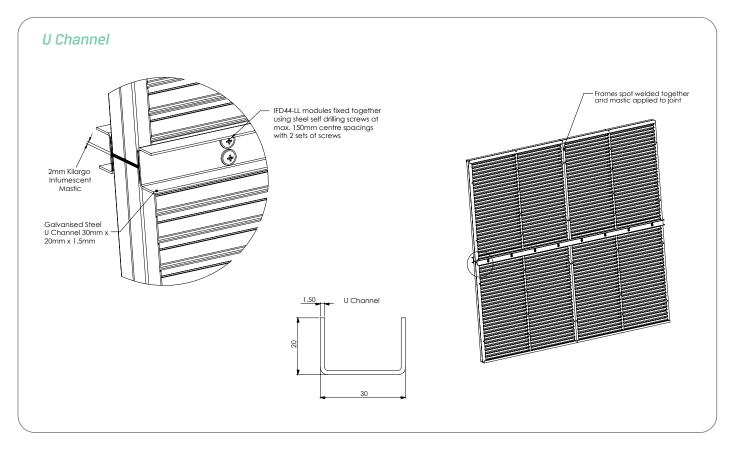
- Grilles, louvres, vermin proof mesh, angles, brackets & fixings are to be supplied by others.
- Grille to be fixed independently to the building element and shall not be fixed to the fire damper.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- Fire damper insulation requirements are not required for shaft mounted fire damper as per AS 1668.1:2015 cl 3.2.3.1 (a).
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.



Building element:	Plasterboard 3 x 16
Application:	Cell only installed in riser with grille on one side
Maximum size:	600 x 600 or 0.36 m2
FRL	-/120/-
Test reference No.	FAS200229

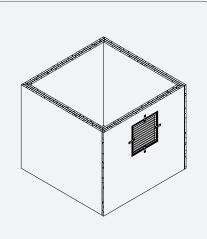
System No. WSW29

Air-Transfer - Modular



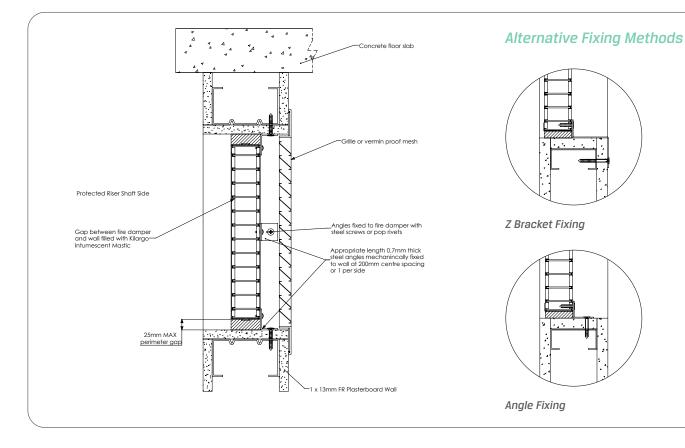
Step 1	Apply Kilargo Intumescent Mastic to the opposing module	
Step 2	Align and bring modules together and mechanically fix together using U channels and steel self-drilling screws or steel pop rivets with 2 sets of screws at 150mm centres as per the modular system drawing on both sides	
Step 3	Fix modular damper to aperture or casing as shown in the appropriate system drawing and installation instructions	

- Fixings are to be supplied by others.
- Optional flat joining strips supplied at the time of order in lieu of U channel on request for air transfer systems only.



Building element:	Plasterboard 3 x 16
Application:	Cell only installed in riser with grille on one side
Maximum size:	600 x 600 or 0.36 m2
FRL	-/120/-
Test reference No.	FAS200229
Note: To be read in conjunction with system WSW29 (a)	
System No.	WSW29 (b)

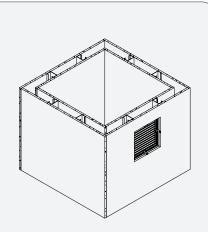
Air-Transfer



Step 1	Position damper centrally in penetration aperture as per system drawing with temporary supports or packers
Step 2	Fasten mounting angles or brackets to damper with steel self-drilling screws or steel pop rivets and to the building element with appropriate mechanical fixings as per system drawing
Step 3	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper & building element. Ensure fill depth corresponds with those detailed in the system drawing
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 5	Fix grille independently to the building element

System Notes

- Grilles, louvres, vermin proof mesh, angles, brackets & fixings are to be supplied by others.
- Grille to be fixed independently to the building element and shall not be fixed to the fire damper.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- Fire damper insulation requirements are not required for shaft mounted fire damper as per AS 1668.1:2015 cl 3.2.3.1 (a).
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.

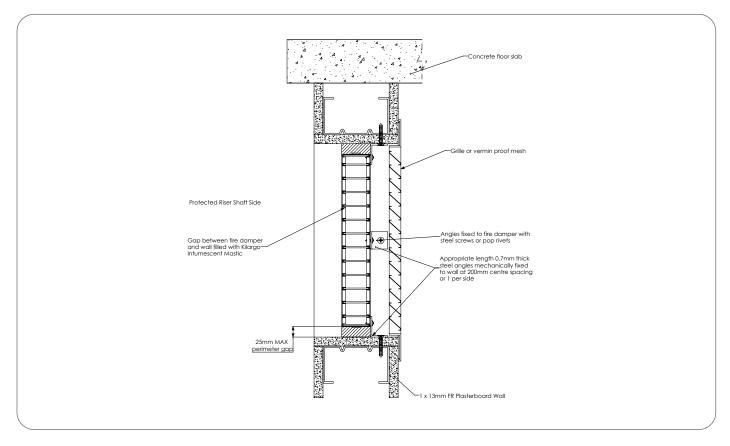


Building element:	Plasterboard 1 x 13
Application:	Cell only installed in riser with grille on one side
Maximum size:	300 x 300 *without build up
FRL	-/60/-
Test reference No.	FAS200229

*Max size 600 x 600 if wall thickness is built up locally with 100mm wide FR plasterboard to a minimum thickness of 116mm

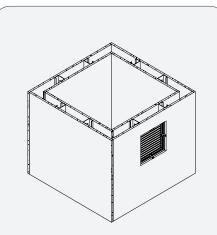
System No.

Air-Transfer



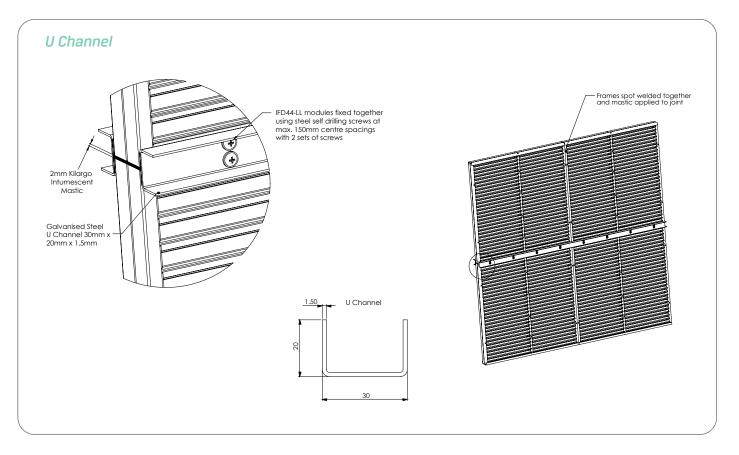
Step 1	Position damper centrally in penetration aperture as per system drawing with temporary supports or packers
Step 2	Fasten mounting angles or brackets to damper with steel self-drilling screws or steel pop rivets and to the building element with appropriate mechanical fixings as per system drawing
Step 3	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper & building element. Ensure fill depth corresponds with those detailed in the system drawing
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 5	Fix grille independently to the building element

- Grilles, louvres, vermin proof mesh, angles, brackets & fixings are to be supplied by others.
- Grille to be fixed independently to the building element and shall not be fixed to the fire damper.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- Fire damper insulation requirements are not required for shaft mounted fire damper as per AS 1668.1:2015 cl 3.2.3.1 (a).
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.



Building element:	Plasterboard 2 x 13
Application:	Cell only installed in riser with grille on one side
Maximum size:	600 x 600 or 0.36 m2
FRL	-/120/-
Test reference No.	FAS200229
System No.	WSW31 (a)

Air-Transfer - Modular

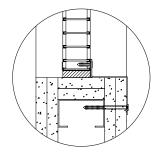


Step 1	Apply Kilargo Intumescent Mastic to the opposing module
Step 2	Align and bring modules together and mechanically fix together using U channels and steel self-drilling screws or steel pop rivets with 2 sets of screws at 150mm centres as per the modular system drawing on both sides
Step 3	Fix modular damper to aperture or casing as shown in the appropriate system drawing and installation instructions

System Notes

- Fixings are to be supplied by others.
- Optional flat joining strips supplied at the time of order in lieu of U channel on request for air transfer systems only.

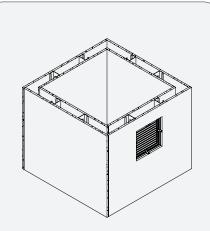
Alternative Fixing Methods



Z Bracket Fixing



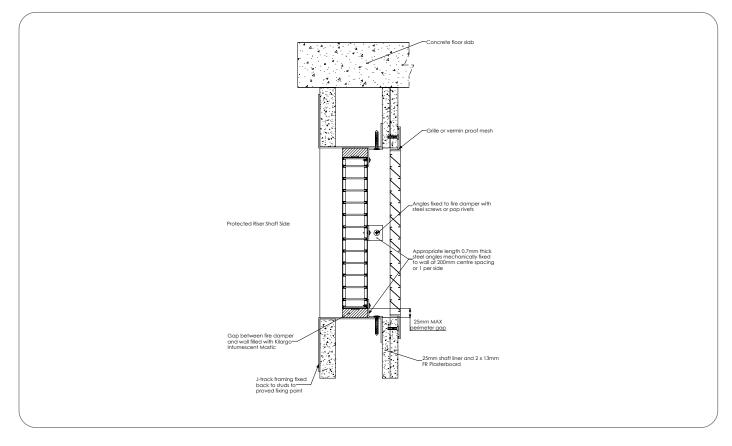
Angle Fixing



Building element:	Plasterboard 2 x 13
Application:	Cell only installed in riser with grille on one side
Maximum size:	600 x 600 or 0.36 m2
FRI	-/120/-
TIL	-/120/-
Test reference No.	FAS200229

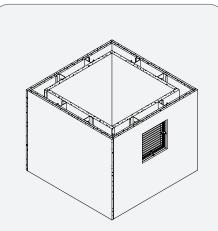
System No.

Air-Transfer



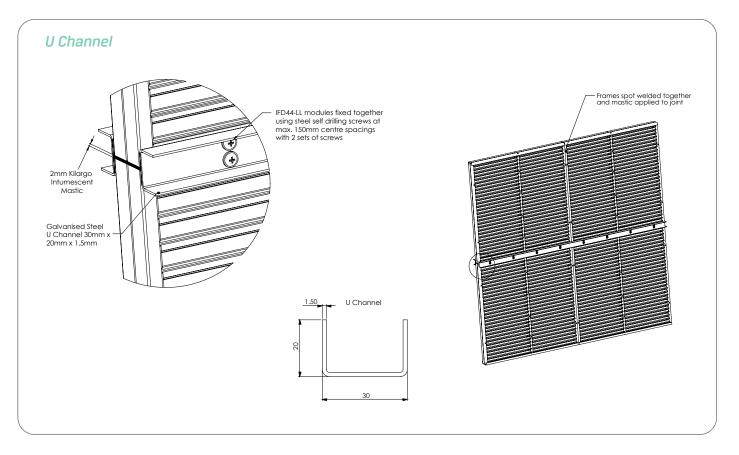
Step 1	Position damper centrally in penetration aperture as per system drawing with temporary supports or packers
Step 2	Fasten mounting angles or brackets to damper with steel self-drilling screws or steel pop rivets and to the building element with appropriate mechanical fixings as per system drawing
Step 3	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper & building element. Ensure fill depth corresponds with those detailed in the system drawing
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 5	Fix grille independently to the building element

- Grilles, louvres, vermin proof mesh, angles, brackets & fixings are to be supplied by others.
- Grille to be fixed independently to the building element and shall not be fixed to the fire damper.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- Fire damper insulation requirements are not required for shaft mounted fire damper as per AS 1668.1:2015 cl 3.2.3.1 (a).
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.



Building element:	Plasterboard 1 x 25 liner + 2 x 13 or 16 layers
Application:	Cell only installed in riser with grille on one side
Maximum size:	600 x 600 or 0.36 m2
FRL	-/120/-
Test reference No.	FAS200229
System No.	WSW32 (a)

Air-Transfer - Modular



Step 1	Apply Kilargo Intumescent Mastic to the opposing module
Step 2	Align and bring modules together and mechanically fix together using U channels and steel self-drilling screws or steel pop rivets with 2 sets of screws at 150mm centres as per the modular system drawing on both sides
Step 3	Fix modular damper to aperture or casing as shown in the appropriate system drawing and installation instructions

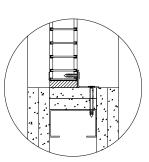
System Notes

- Fixings are to be supplied by others.
- Optional flat joining strips supplied at the time of order in lieu of U channel on request for air transfer systems only.

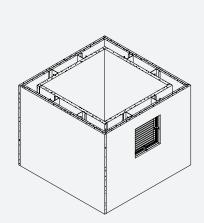
Alternative Fixing Methods



Z Bracket Fixing

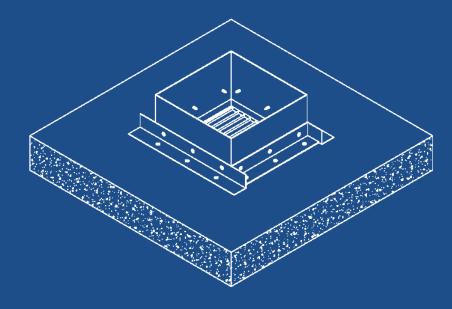


Angle Fixing



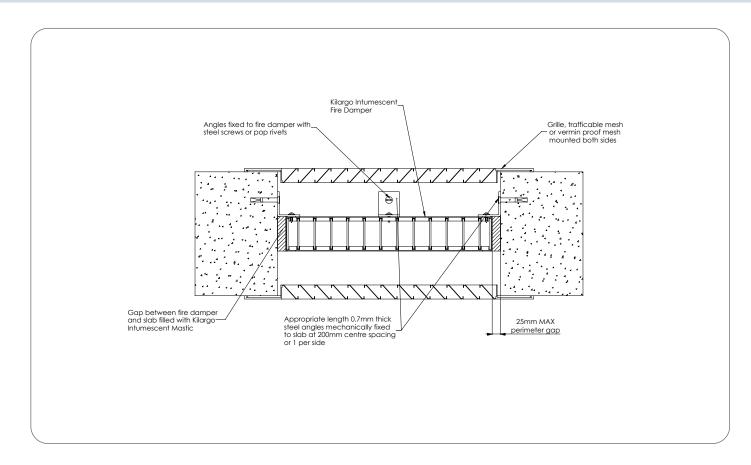
Building element:	Plasterboard 1 x 25 liner + 2 x 13 or 16 layers
Application:	Cell only installed in riser with grille on one side
Maximum size:	600 x 600 or 0.36 m2
FRL	-/120/-
Test reference No.	FAS200229
Note: To be read in conjunction with system WSW32 (a)	

System No.



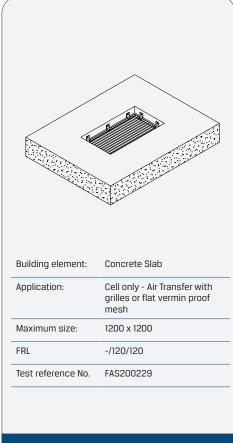
FLOOR SLAB SYSTEMS

Air-Transfer

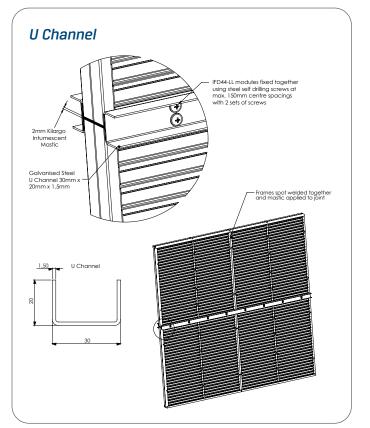


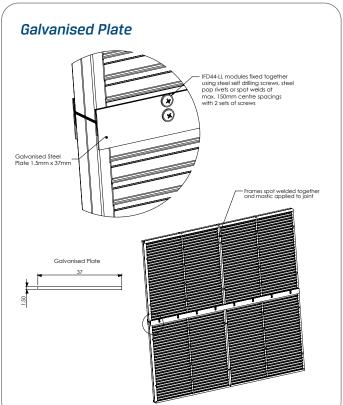
Step 1	Position damper centrally in penetration aperture as per system drawing with temporary supports or packers
Step 2	Fasten mounting angles or brackets to damper with steel self-drilling screws or steel pop rivets and to the building element with appropriate mechanical fixings as per system drawing
Step 3	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper & building element. Ensure fill depth corresponds with those detailed in the system drawing
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 5	Fix grilles, louvres or vermin proof mesh independently to each side of the building element

- Grilles, louvres, vermin proof mesh, angles, brackets & fixings are to be supplied by others.
- Grilles to be fixed independently to the building element and shall not be fixed to the fire damper.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.



Air-Transfer - Modular



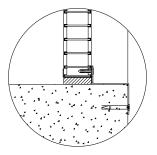


Step 1	Apply Kilargo Intumescent Mastic to the opposing module	
Step 2	Align and bring modules together and mechanically fix together using U channels and steel self-drilling screws or steel pop rivets with 2 sets of screws at 150mm centres as per the modular system drawing on both sides	
Step 3	Fix modular damper to aperture or casing as shown in the appropriate system drawing and installation instructions	

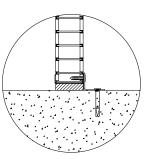
System Notes

- Fixings are to be supplied by others.
- Optional flat joining strips supplied at the time of order in lieu of U channel on request for air transfer systems only.

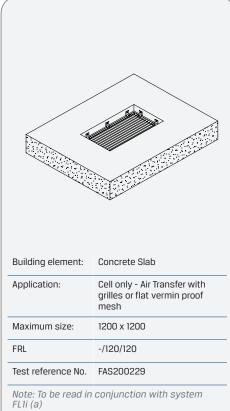
Alternative Fixing Methods



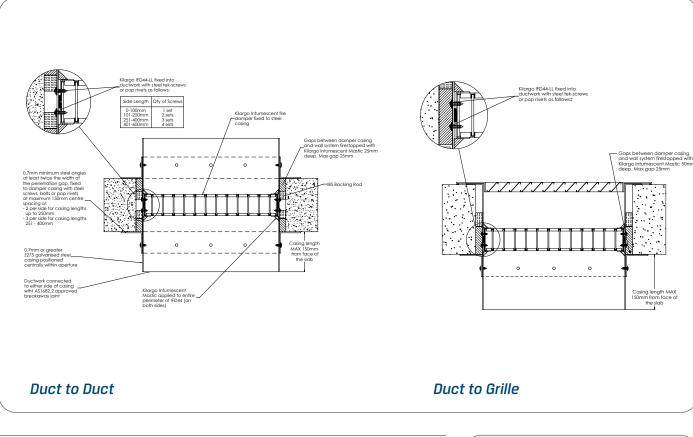
Z Bracket Fixing



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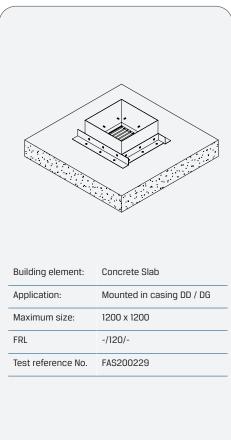




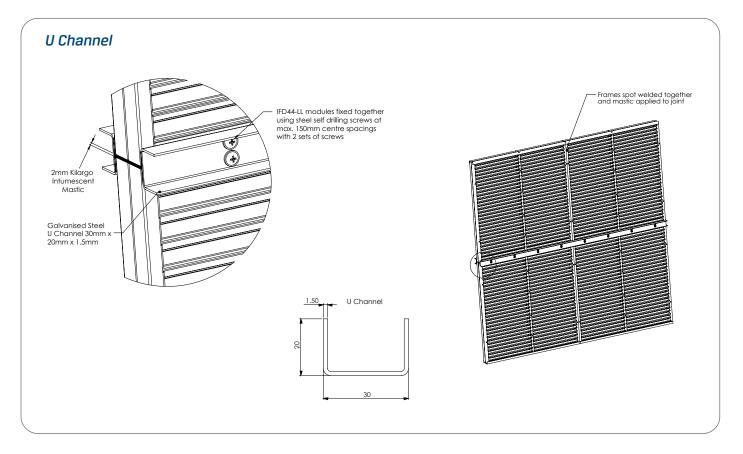


Step 1	Position damper centrally in penetration aperture as per system drawing with IBS Backing Rod and temporary supports or packers	
Step 2	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper & building element. Ensure fill depth corresponds with those detailed in the system drawing	
Step 3	Fasten mounting angles to damper with steel self-drilling screws or steel pop rivets and, if detailed, to the building element with appropriate mechanical fixings as per system drawing	
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections	
Step 5	Connect ductwork to the damper casing with AS1682.2 compliant breakaway joint	

- Grilles, louvres, IBS backing rod & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.

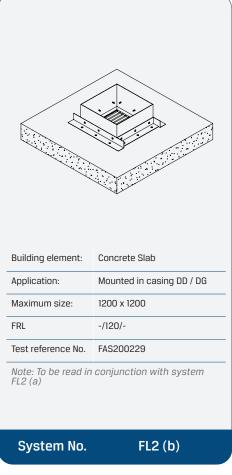


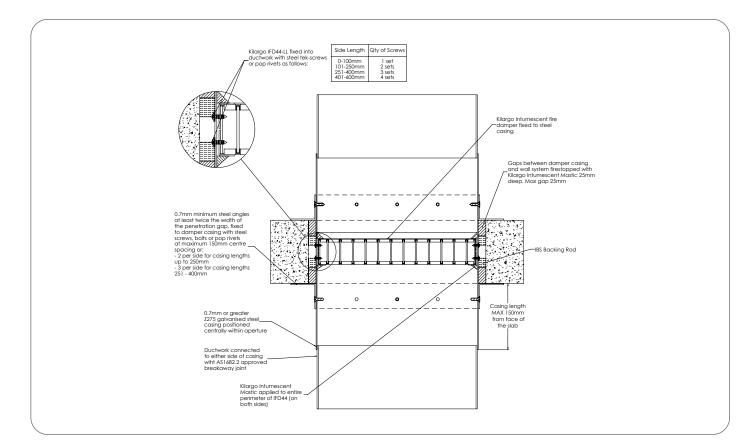
Ducted - Modular



Step 1	Apply Kilargo Intumescent Mastic to the opposing module	
Step 2	Align and bring modules together and mechanically fix together using U channels and steel self-drilling screws or steel pop rivets with 2 sets of screws at 150mm centres as per the modular system drawing on both sides	
Step 3	Fix modular damper to aperture or casing as shown in the appropriate system drawing and installation instructions	

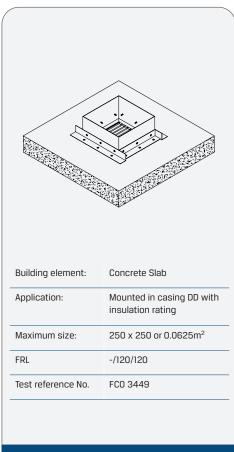
- Fixings are to be supplied by others.
- Optional flat joining strips supplied at the time of order in lieu of U channel on request for air transfer systems only.

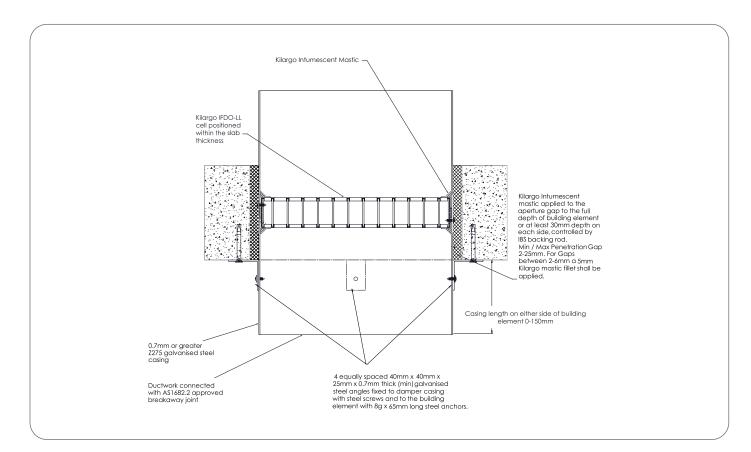




Step 1Position damper centrally in penetration aperture as per system drawing with IBS Backing Rod and temporary supports or packers.Step 2Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper & building element. Ensure fill depth corresponds with those detailed in the system drawing.Step 3Fasten mounting angles to damper with steel self-drilling screws or steel pop rivets and, if detailed, to the building element with appropriate mechanical fixings as per system drawing.Step 4Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections.Step 5Connect ductwork to the damper casing with AS 1682.2 compliant
Step 2 between the damper & building element. Ensure fill depth corresponds with those detailed in the system drawing. Step 3 Fasten mounting angles to damper with steel self-drilling screws or steel pop rivets and, if detailed, to the building element with appropriate mechanical fixings as per system drawing. Step 4 Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections.
Step 4 Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections.
identification during subsequent maintenance inspections.
Sten 5 Connect ductwork to the damper casing with AS 1682.2 compliant
breakaway joint.

- IBS backing rod & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2
- Ensure convenient access is provided for visual inspection and cleaning as necessary
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied





Step 1	Position damper centrally in penetration aperture as per system drawing with IBS Backing Rod and packers
Step 2	Fasten mounting brackets to damper with steel self-drilling screws or steel pop rivets and to the building element with appropriate mechanical fixings as per system drawing
Step 3	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper & building element. Ensure fill depth corresponds with those detailed in the system drawing
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 5	Connect ductwork to the damper casing with AS1682.2 compliant breakaway joint

System Notes

- Grilles, louvres, IBS backing rod & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2
- Ensure convenient access is provided for visual inspection and cleaning as necessary
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-6mm, a fillet of Kilargo Intumescent Mastic shall be applied..



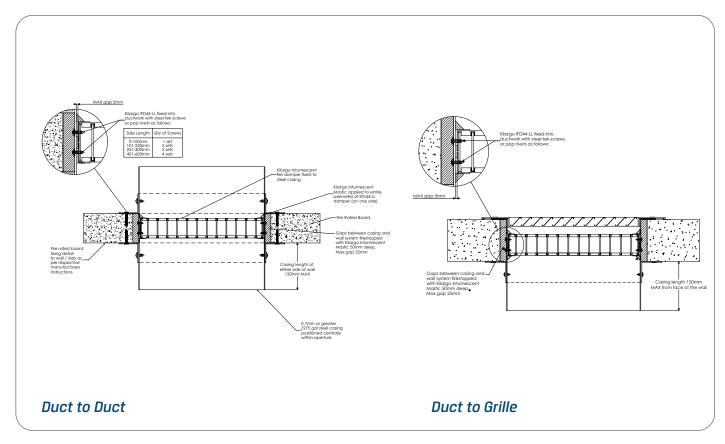
Building element:	Concrete Slab
Application:	Ducted
Maximum size:	350 DIA
FRL	-/120/120
Test reference No.	FC0 3344
System No	. FL4

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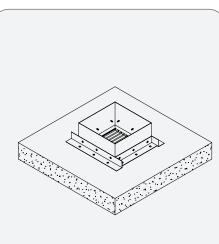
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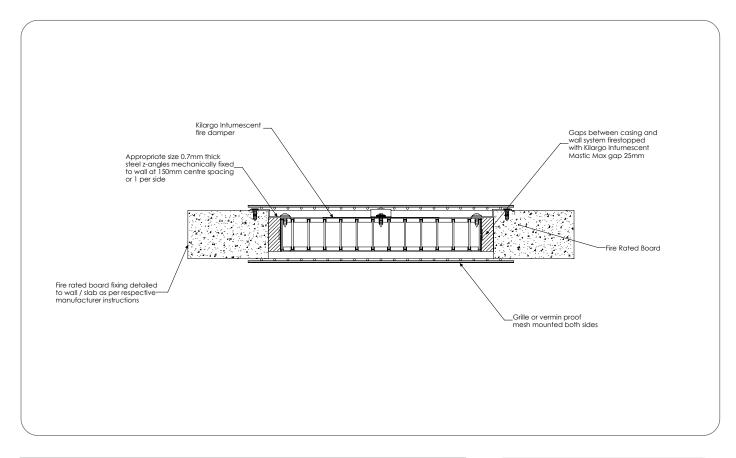
Step 1	Position damper centrally in penetration aperture as per system drawing with IBS Backing Rod and temporary supports or packers
Step 2	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper & building element. Ensure fill depth corresponds with those detailed in the system drawing $\$
Step 3	Fasten mounting angles to damper with steel self-drilling screws or steel pop rivets and, if detailed, to the building element with appropriate mechanical fixings as per system drawing
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 5	Connect ductwork to the damper casing with AS1682.2 compliant breakaway joint

- Grilles, louvres, IBS backing rod & fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2.
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.



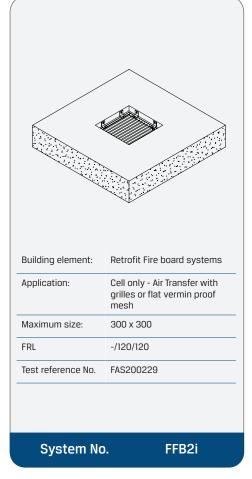
Building element:	Retrofit Fire board systems	
Application:	Mounted in casing DD / DG	
Maximum size:	300 x 300	
FRL	-/120/-	
Test reference No.	FAS200229	
System No	o. FFB1	

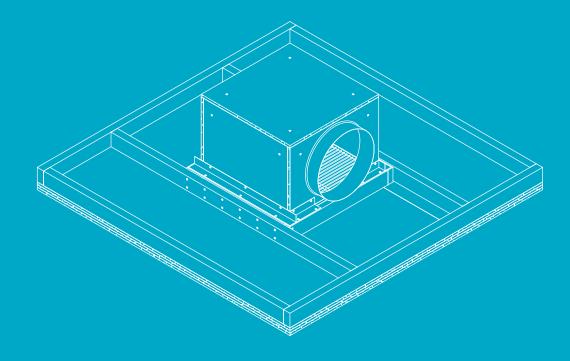
Air-Transfer



Step 1	Position damper centrally in penetration aperture as per system drawing with temporary supports or packers
Step 2	Fasten mounting angles or brackets to damper with steel self-drilling screws or steel pop rivets and to the building element with appropriate mechanical fixings as per system drawing
Step 3	Apply Kilargo Intumescent Mastic (supplied separately) to the gaps between the damper & building element. Ensure fill depth corresponds with those detailed in the system drawing
Step 4	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance inspections
Step 5	Fix grilles, louvres or vermin proof mesh independently to each side of the building element

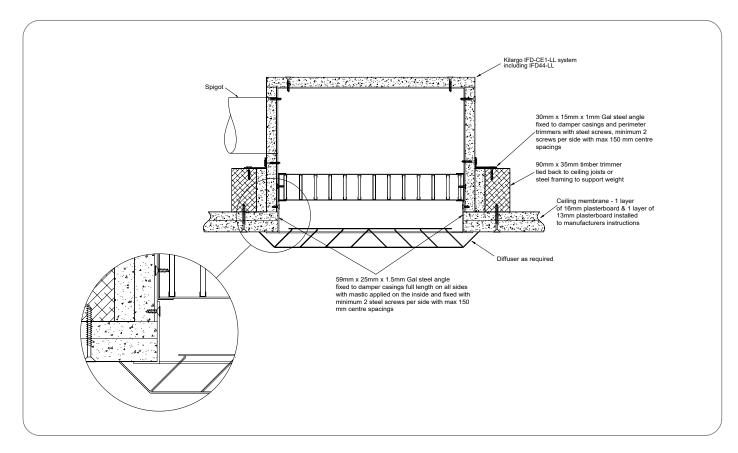
- Grilles, louvres, vermin proof mesh, angles, brackets & fixings are to be supplied by others.
- Grilles to be fixed independently to the building element and shall not be fixed to the fire damper.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic and in accordance with the requirements of AS1682.2
- Ensure convenient access is provided for visual inspection and cleaning as necessary.
- 2mm Minimum gap allowable between damper and aperture. For gaps between 2-5mm, a fillet of Kilargo Intumescent Mastic shall be applied.





CEILING SYSTEMS

Ceiling Under Floor & Ceiling Under Roof Systems

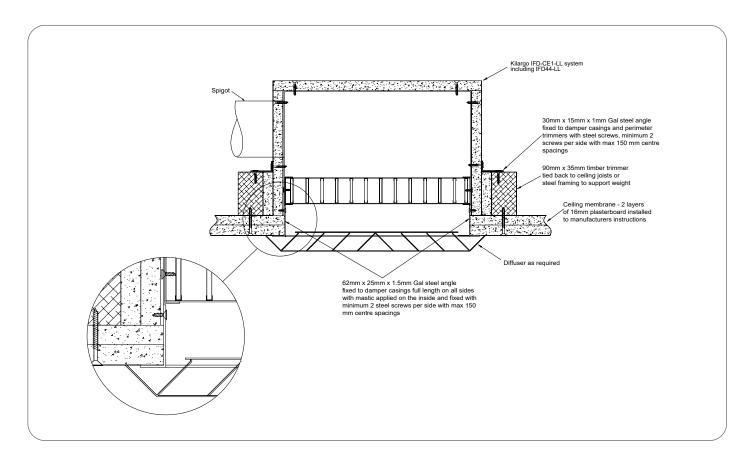


Step 1	If ceiling is in framing stage, start at step 2 below. For existing fire rated ceilings, mark and cut out to suit internal IFD-CE1-LL plenum dimensions.
Step 2	Fix timber trimmers to ceiling joists to fully support weight of system as per system drawing.
Step 3	Fix IFD-CE1-LL box to framing with angles as per system drawing and attach ductwork to spigot
Step 4	Apply mastic to the inside of angles and fix to the inside of penetration $\&$ IFD-CE1 plenum as per system drawing.
Step 5	Fit register / diffuser as required.
Step 6	Ensure convenient access is provided for visual inspection and cleaning as necessary.
Step 7	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance routines.

- Grilles, diffuser, trimmers, angles and fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic (supplied separately) and in accordance with the requirements of AS1682.2
- Ensure convenient access is provided for visual inspection and cleaning as necessary
- Where the RISF is different between the fire rated floor/ceiling or roof/ceiling and the
- Kilargo IFD-CE1-LL, the lower RISF shall apply to both.



Ceiling Under Floor & Ceiling Under Roof Systems

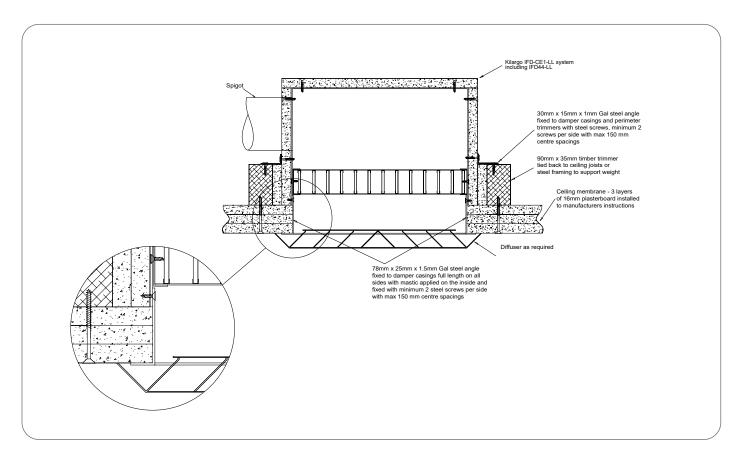


Step 1	If ceiling is in framing stage, start at step 2 below. For existing fire rated ceilings, mark and cut out to suit internal IFD-CE1-LL plenum dimensions.
Step 2	Fix timber trimmers to ceiling joists to fully support weight of system as per system drawing.
Step 3	Fix IFD-CE1-LL box to framing with angles as per system drawing and attach ductwork to spigot
Step 4	Apply mastic to the inside of angles and fix to the inside of penetration & IFD-CE1 plenum as per system drawing.
Step 5	Fit register / diffuser as required.
Step 6	Ensure convenient access is provided for visual inspection and cleaning as necessary.
Step 7	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance routines.

- Grilles, diffuser, trimmers, angles and fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic (supplied separately) and in accordance with the requirements of AS1682.2
- Ensure convenient access is provided for visual inspection and cleaning as necessary
- Where the RISF is different between the fire rated floor/ceiling or roof/ceiling and the Kilargo IFD-CE1-LL, the lower RISF shall apply to both.



Ceiling Under Floor & Ceiling Under Roof Systems

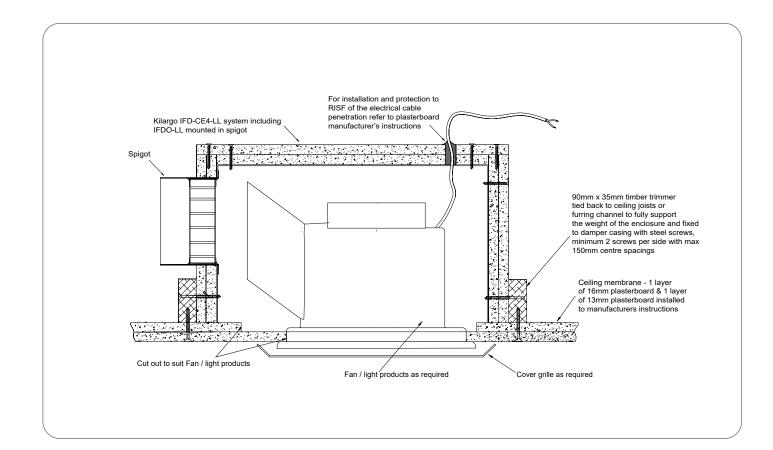


If ceiling is in framing stage, start at step 2 below. For existing fire rated ceilings, mark and cut out to suit internal IFD-CE1-LL plenum dimensions.
Fix timber trimmers to ceiling joists to fully support weight of system as per system drawing.
Fix IFD-CE1-LL box to framing with angles as per system drawing and attach ductwork to spigot
Apply mastic to the inside of angles and fix to the inside of penetration & ${\sf IFD}{\sf -CE1}$ plenum as per system drawing.
Fit register / diffuser as required.
Ensure convenient access is provided for visual inspection and cleaning as necessary.
Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance routines.

- Grilles, diffuser, trimmers, angles and fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail, including the use of Kilargo Intumescent Mastic (supplied separately) and in accordance with the requirements of AS1682.2
- Ensure convenient access is provided for visual inspection and cleaning as necessary
- Where the RISF is different between the fire rated floor/ceiling or roof/ceiling and the Kilargo IFD-CE1-LL, the lower RISF shall apply to both.



Ceiling Under Floor & Ceiling Under Roof Systems

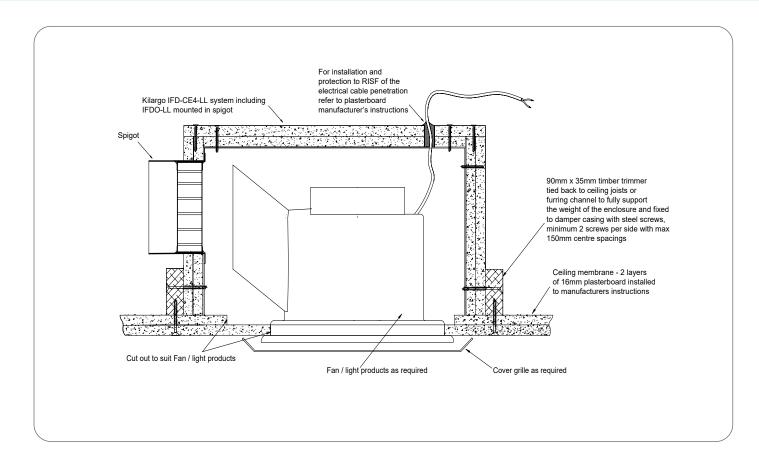


Step 1	If ceiling is in framing stage, start at step 2 below. For existing fire rated ceilings, mark and cut out to suit fan / light dimensions.
Step 2	Fix timber trimmers to ceiling joists to fully support weight of system as per system drawing.
Step 3	Install fan / light to ceiling cut out.
Step 4	Fix IFD-CE4-LL box to framing as per system drawing ensuring fan's supply / exhaust location is the same side as the IFD-CE4-LL spigot.
Step 5	Drill electrical cable hole in top of IFD-CE4-LL box and install as per ceiling plasterboard manufacturer's instructions to maintain ceilings RISF rating.
Step 6	Fit cover grille as required.
Step 7	Ensure convenient access is provided for visual inspection and cleaning as necessary.
Step 8	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance routines.

- Trimmers, fan / light unit, cover grille and fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail and in accordance with the requirements of AS1682.2
- Ensure convenient access is provided for visual inspection and cleaning as necessary
- Where the RISF is different between the fire rated floor/ceiling or roof/ceiling and the Kilargo IFD-CE4-LL, the lower RISF shall apply to both.

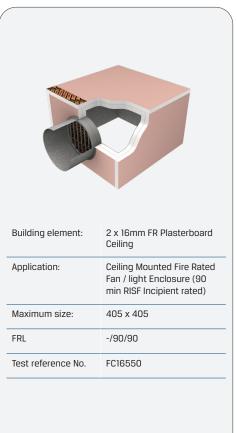


Ceiling Under Floor & Ceiling Under Roof Systems

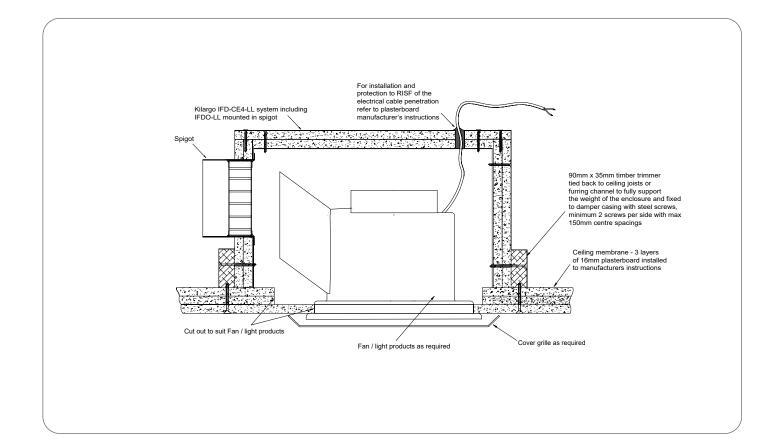


Step 1	If ceiling is in framing stage, start at step 2 below. For existing fire rated ceilings, mark and cut out to suit fan / light dimensions.
Step 2	Fix timber trimmers to ceiling joists to fully support weight of system as per system drawing.
Step 3	Install fan / light to ceiling cut out.
Step 4	Fix IFD-CE4-LL box to framing as per system drawing ensuring fan's supply / exhaust location is the same side as the IFD-CE4-LL spigot.
Step 5	Drill electrical cable hole in top of IFD-CE4-LL box and install as per ceiling plasterboard manufacturer's instructions to maintain ceilings RISF rating.
Step 6	Fit cover grille as required.
Step 7	Ensure convenient access is provided for visual inspection and cleaning as necessary.
Step 8	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance routines.

- Trimmers, fan / light unit, cover grille and fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail and in accordance with the requirements of AS1682.2
- Ensure convenient access is provided for visual inspection and cleaning as necessary
- Where the RISF is different between the fire rated floor/ceiling or roof/ceiling and the Kilargo IFD-CE4-LL, the lower RISF shall apply to both.

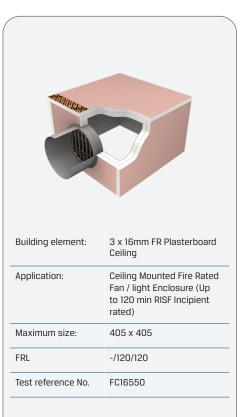


Ceiling Under Floor & Ceiling Under Roof Systems



Step 1	If ceiling is in framing stage, start at step 2 below. For existing fire rated ceilings, mark and cut out to suit fan / light dimensions.
Step 2	Fix timber trimmers to ceiling joists to fully support weight of system as per system drawing.
Step 3	Install fan / light to ceiling cut out.
Step 4	Fix IFD-CE4-LL box to framing as per system drawing ensuring fan's supply / exhaust location is the same side as the IFD-CE4-LL spigot.
Step 5	Drill electrical cable hole in top of IFD-CE4-LL box and install as per ceiling plasterboard manufacturer's instructions to maintain ceilings RISF rating.
Step 6	Fit cover grille as required.
Step 7	Ensure convenient access is provided for visual inspection and cleaning as necessary.
Step 8	Ensure product and certification labels are in a prominent position for easy identification during subsequent maintenance routines.

- Trimmers, fan / light unit, cover grille and fixings are to be supplied by others.
- Kilargo Intumescent Fire Dampers shall be installed in accordance with this detail and in accordance with the requirements of AS1682.2
- Ensure convenient access is provided for visual inspection and cleaning as necessary
- Where the RISF is different between the fire rated floor/ceiling or roof/ceiling and the Kilargo IFD-CE4-LL, the lower RISF shall apply to both.



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