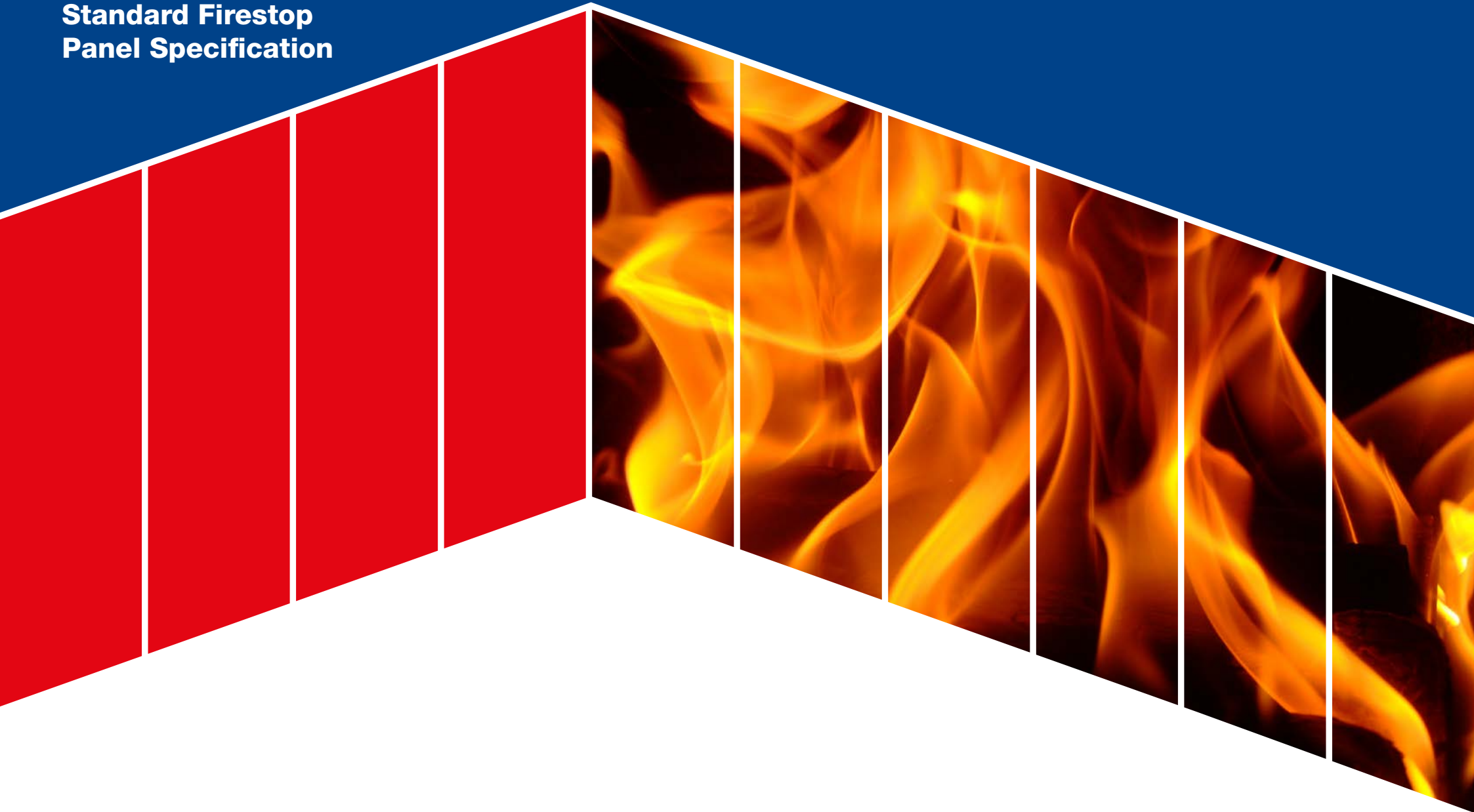


Standard Firestop Panel Specification



Firestop

The insulated fire rated panel system



Firestop

Standard Panel Specification

Isoclad manufacture a range of insulated and fire-resisting panels which can be used for wall systems, horizontally or vertically and ceilings. All panels are manufactured to an ISO 9001:2008 quality assurance system.

The **Firestop** panel has a Mineral Fibre* (European fire classification Class A1 rated) core and due to its superior fire ratings and non-combustibility is especially suitable for high fire risk locations, such as bakeries, any area where cooking is prevalent or fire walls to comply with Building Regulations.

The non combustibility of Mineral Fibre combined with the steel facings give **Firestop** panels a Class '0' rating and according to the new European classifications for reaction to fire, a class A2.

Additional classification in relation to smoke production is s1 and flaming droplets/particles is d0.

** Mineral Fibre insulant comprises of mineral rock fibres bonded together with thermo setting resins to form the insulant materials.*

Firestop 10 (Fstop10)

Lightweight fire rated non-combustible wall panels designed for internal linings and partitions for general industrial applications and high risk environments.

Fstop10 has a density of 100kg and is suitable for low to medium height walls.

Firestop 12 (Fstop12)

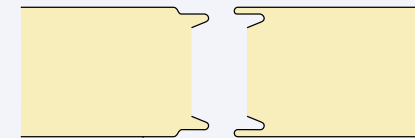
Stronger and more durable fire rated non-combustible panel primarily for use in internal and external applications where longer spans and greater loads and improved fire performance ratings need to be attained.

Fstop12 has a density of 125kg and is suited to longer wall spans and ceiling panels.

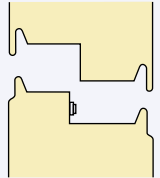
Joint Detail

Roll formed to create the male/female inter-locking joint.

Intaloc



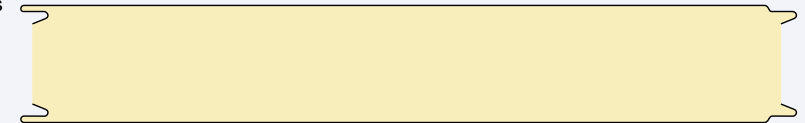
Secret Fix



Profiles (NOT TO SCALE)

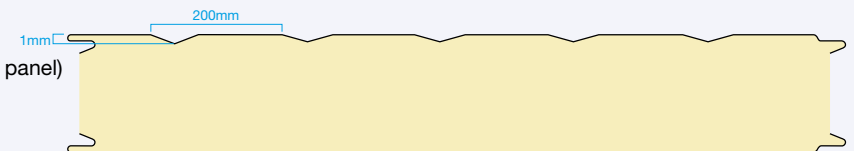
Flat

Laminated panel produces a much flatter surface than other manufacturing methods, but 'optical' flatness is not assured; some shadowing might be evident in certain lighting situations.



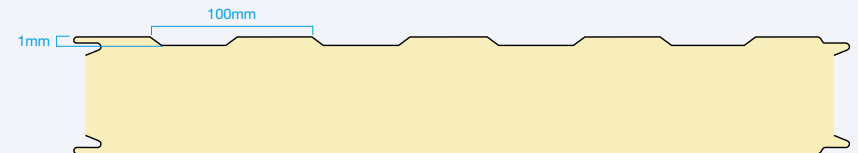
V-Rib

(Pitch 200mm - 5 per panel)



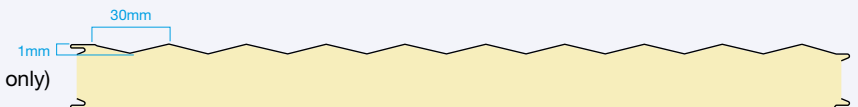
Castellation

(Pitch 100mm)



Micro rib

(Pitch 30mm - 1 side only)



Vertical

Fire Ratings & Maximum Recommended Span (m)

Panel	Thickness (mm)	Fire Resistance (mins)		Max Unsupported Span (m)	
		Integrity	Insulation	LPS 1208	BS476 Part 22
Firestop10 Walls (Stitched)	100 - 200	240	60	7.50	6.9 - 9.5
Firestop10 Walls (Unstitched)	75	30	30	3.00	-
	100 - 125	30	30	5.50	6.9 - 7.9
	100	60	60	4.00	6.9
	125	60	60	4.65	7.9
	150 - 200	60	60	5.50	8.8 - 9.5
	150	90	90	4.00	8.8
	175	90	90	4.35	9.3
	200	90	90	5.00	9.5
Firestop12 Walls (Stitched)	150	219	178	-	11
Firestop12 Walls (Unstitched)	75	30	30	3.00	-
	75	60	60	3.00	-
	100 - 200	30	30	7.50	9.3 - 12.0
	100 - 200	60	60	6.00	9.3 - 12.0
	100	90	90	4.00	9.3
	125	90	90	5.00	10.2
	150 - 200	90	90	5.50	11.0 - 12
	150	120	120	4.50	11.0
	175	120	120	5.25	11.7
200	120	120	5.50	12.0	

Horizontal

Fire Ratings & Maximum Recommended Span (m)

Panel	Thickness (mm)	Fire Resistance (mins)		Max Unsupported Span (m)	
		Integrity	Insulation	LPS 1208	BS476 Part 22
Firestop10 Walls (Stitched)	100 - 200	240	60	7.50	-
Firestop 10 Walls (Unstitched)	100 - 200	30	30	6.00	6.9 - 8.0
	100 - 200	60	60	4.35	6.9 - 8.0

Ceilings

Fire Ratings & Maximum Recommended Span (m)

Panel	Thickness (mm)	Fire Resistance (mins)		Max Unsupported Span (m)	
		Integrity	Insulation	LPS 1208	BS476 Part 22
Firestop 12 Ceilings	100 - 125	30	30	6.0	-
	150 - 200	30	30	7.5	-
	100 - 125	60	60	4.4	-
	150 - 200	60	60	6.0	-
	150 - 200	90	90	4.7	-
	150 - 200	120	120	4.1	-

Structural Walls

Maximum Recommended Span (m)

Core Thickness	50	75	100	125	150	175	200
Firestop 10	5.1	6.0	6.9	7.9	8.8	9.3	9.5
Firestop 12	7.8	8.4	9.3	10.2	11.0	11.7	12.5

Panel Weight Kg/m²

Core Thickness	50	75	100	125	150	175	200
Firestop 10	13.9	16.8	19.6	22.5	25.4	28.3	31.1
Firestop 12	14.9	18.3	21.6	25.0	28.4	31.8	-

Structural Ceilings

Maximum Recommended Span (m)

Core Thickness	50	75	100	125	150	175	200
Firestop 12	4.8	5.4	6.0	7.0	7.5	7.9	8.2

Panel Weights in kg/m² based on 0.5 thickness steel

Add 1.1 kg/m² for ceiling or 0.7 panels

Firestop

Standard Panel Specification

Thermal Properties

Insulation Materials	Thermal Conductivity W/m ² c	50	75	100	125	150	175	200	Recommended Minimum Thickness for U Values 0.35 W/m ²
Firestop 10	0.040	0.80	0.53	0.40	0.32	0.27	0.23	0.20	125mm
Firestop 12	0.042	0.84	0.56	0.42	0.34	0.28	0.24	-	125mm

External/Internal facing finishes

We offer a complete range of facings available in 0.5mm and 0.7mm hot dipped galvanized substrate with the following finishes.

WFSL	HP200	PVF2	HPSULTRA	Polyester	Primer
120 micron thick White Food Safe Laminate for internal hygienic areas	Colour coat leathergrain, A 200 micron PVC paint system with leathergrain emboss, available in various colours	Colour coat smooth 27 micron poly vinyl di fluoride stoved fluorocarbon, available in various colours	Colour coat Scintilla, organic coated 200 microns Scintilla, emboss of 40 microns. Available in various colours	Standard white 25 micron painting system consisting of primer and polyester finish. Other colours upon request.	7 micron coat of epoxy paint

Maintenance

Walls can be washed down with fresh water from a hose or bucket. A solution of fresh water and Tepol or non aggressive detergent, which contains dilute ammonia, may be used to remove heavy deposits from walls, followed by a fresh water rinse.

Water Temperature should not exceed 60°C with a maximum pressure of 1000lbs per square inch.

Stubborn oil or grease stains can be easily removed with white spirit on a soft cloth, followed by an immediate fresh water rinse

Solvents, cleaners containing abrasives and cleaners in strong concentrations should not be used. Over-cleaning or scrubbing can do more harm than good.

To allow regular washing of panels, it is important that both the design and maintenance of the panel system should prevent moisture collecting in crevices and joints. This is particularly important at the bottom of wall panels, where pollutants from cleaning solutions or from floor soil can cause corrosion problems. This can be achieved by a design which ensure that the edges are folded back and by sealing the edges with a neutral curing silicone sealant.

Disclaimer

While Isoclad can give advice regarding suitability for end use it remains the responsibility of the client/architect/specifier to ensure the panels are selected and installed according to the latest regulations and fire safety requirements and that they are suitable for their intended use.
ISO/FS/spec/06/15

Firestop

The insulated fire proof panel system

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