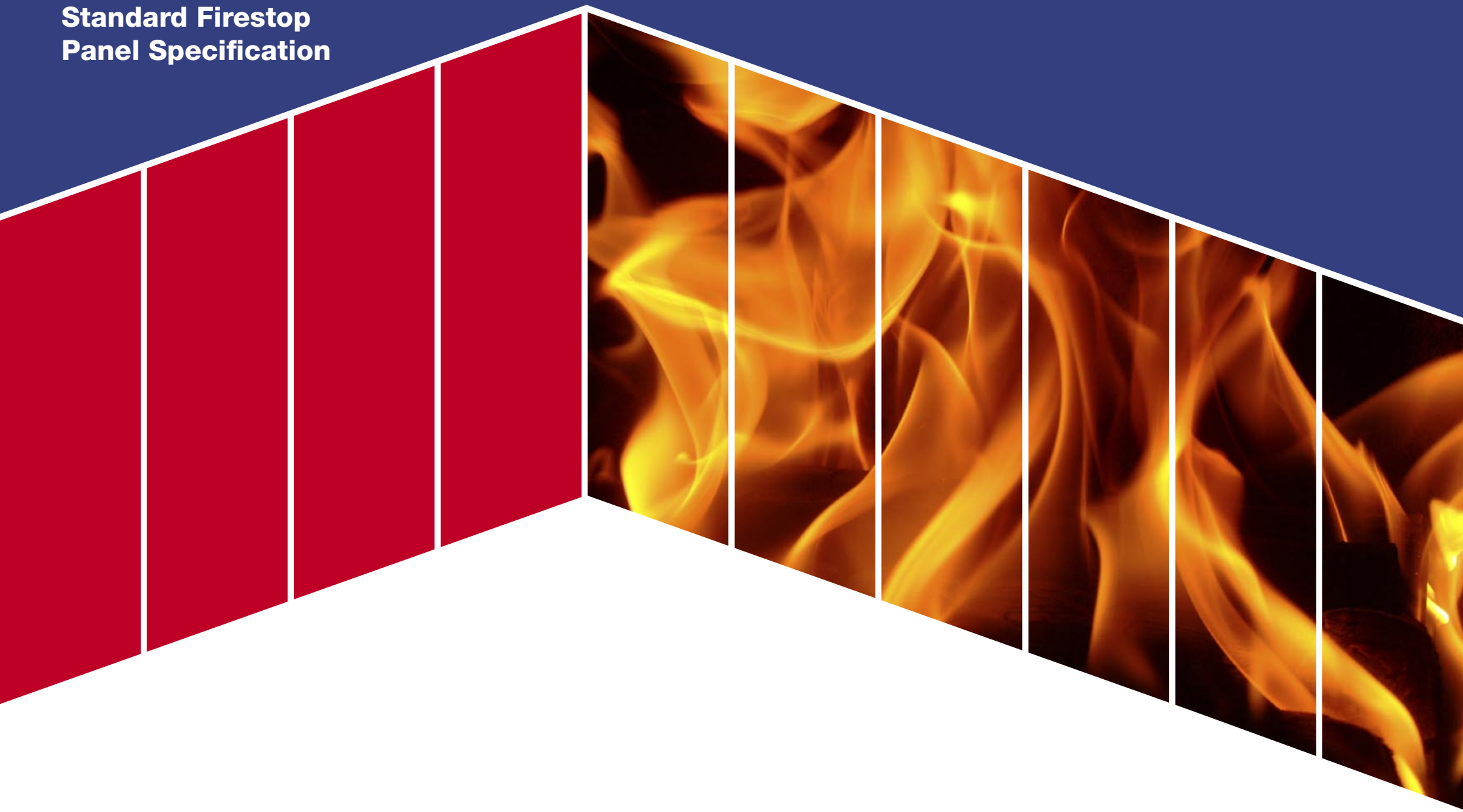
Standard Firestop Panel Specification



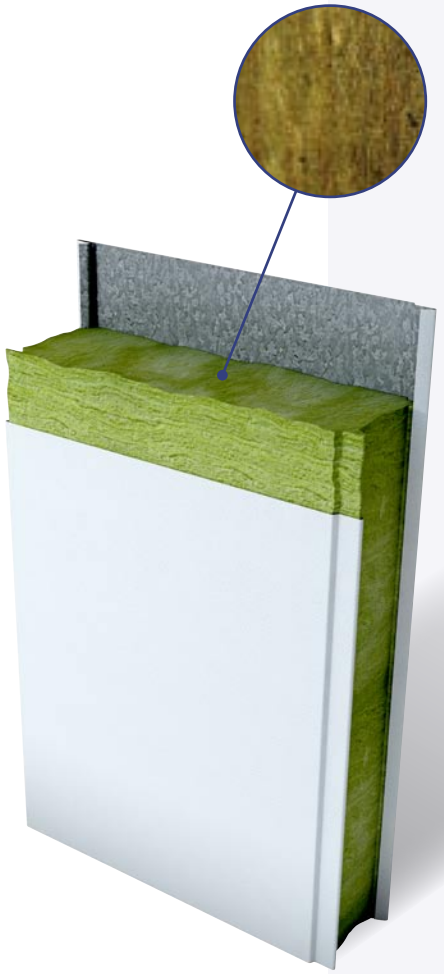
Firestop

The insulated fire rated panel system

ISOCLAD

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 A1.

** 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 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.

Fire Ratings & Maximum Unsupported Spans

Please refer to our LPC Certificate 142a

Vertical Walls

Panel	Thickness mm	FR Integrity mins	FR Insulation mins	Max Unsupported LPS 1208	Max Unsupported BS476 Part 22
Fstop10	75	30	30	3.0	n/a
	100 - 125	30	30	5.5	12
	100 - 125	60	60	4.5	12
	100 - 200	240	60	7.5	12
	150 - 200	60	60	5.5	12
	150 - 200	90	90	5.0	n/a
Fstop12	75	30	30	3.0	n/a
	75	60	60	3.0	n/a
	100 - 200	30	30	7.5	12
	100 - 200	60	60	6.0	12
	100 - 200	90	90	5.5	n/a
	150 - 200	120	120	5.5	n/a

Horizontal Walls

Panel	Thickness mm	FR Integrity mins	FR Insulation mins	Max Unsupported LPS 1208	Max Unsupported BS476 Part 22
Fstop10	100 - 200	30	30	6.00	8.0
	100 - 200	60	60	4.35	8.0
	100 - 200	240	60	7.50	n/a

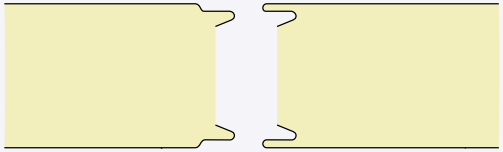
Ceilings

Panel	Thickness mm	FR Integrity mins	FR Insulation mins	Max Unsupported LPS 1208	Max Unsupported BS476 Part 22
Fstop12	100 - 200	30	30	5.5	n/a
	100 - 200	60	60	3.0	n/a

Joint Detail

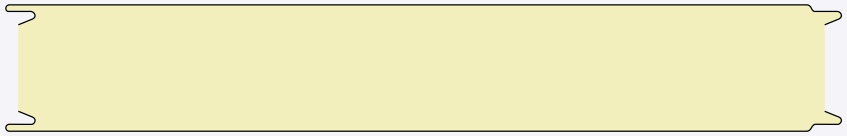
Intaloc

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

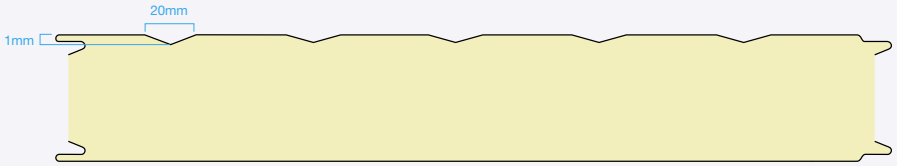


Profiles

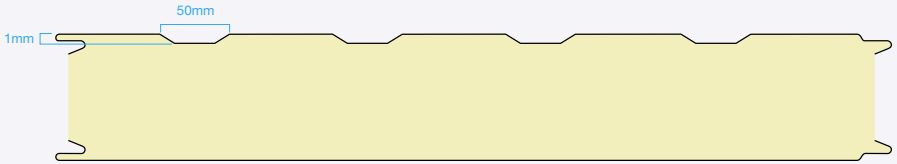
Flat



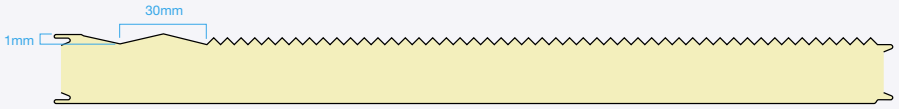
V-Rib (Pitch 200mm - 5 per panel)



Castellation (Pitch 100mm)



Micro rib (Pitch 30mm - 1 side only)



Sizes

Width	Length
Standard 1190mm From 900mm can be arranged upon request	Manufactured to any length, only restrictions being transportation. Rebates & core cuts available on request.

Panel Weights (kg/m²)

	50	75	100	125	150	175	200	250	300
Fstop10	14.6	17.1	19.6	22.1	24.6	27.1	29.6	32.1	34.6
Fstop12	15.9	19.0	22.1	25.2	28.3	31.4	34.5	37.6	40.7

Thermal Properties

Thermal Conductivity W/m°C	50	75	100	125	150	175	200	250	300
0.042	0.65	0.51	0.39	0.32	0.27	0.23	0.20	0.16	0.14

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	HPS200	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

Firestop

Standard Panel Specification

Structural Load Spans

Core/mm	Wall Spans (m) Max allowable loads KN/m²								Max Span	Ceiling/Roof (m) Max allowable loads KN/m²						Max Span
	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0		3.0	4.0	5.0	6.0	7.0	8.0	
FS10 50	1.0	0.5	0.3	0.2					4.95	0.3						3.05
FS12 50	1.1	0.6	0.3	0.2					5.07	0.4						3.35
FS10 75	1.8	1.0	0.6	0.4	0.3				6.55	1.1	0.4	0.1				4.50
FS12 75	2.2	1.1	0.7	0.4	0.3				6.70	1.5	0.6	0.2				4.77
FS10 100	2.8	1.6	1.0	0.6	0.4	0.3			7.98	2.1	1.1	0.5	0.2			5.78
FS12 100	3.4	1.8	1.1	0.7	0.5	0.3			8.14	2.7	1.3	0.6	0.2			6.98
FS10 125	3.7	2.1	1.3	0.9	0.6	0.4	0.3	0.2	9.31	3.0	1.7	0.9	0.5	0.2		6.89
FS12 125	4.7	2.6	1.6	1.0	0.7	0.5	0.3	0.3	9.47	4.0	2.1	1.1	0.6	0.3		7.07
FS10 150	4.5	2.5	1.6	1.1	0.8	0.6	0.5	0.3	10.54	4.1	2.3	1.4	0.8	0.5	0.2	7.90
FS12 150	4.5	3.3	2.1	1.4	0.9	0.7	0.5	0.4	10.73	4.1	3.0	1.7	0.9	0.5	0.3	8.05

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.

ISO/FS/spec1/06/10

Firestop

The insulated fire proof panel system

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