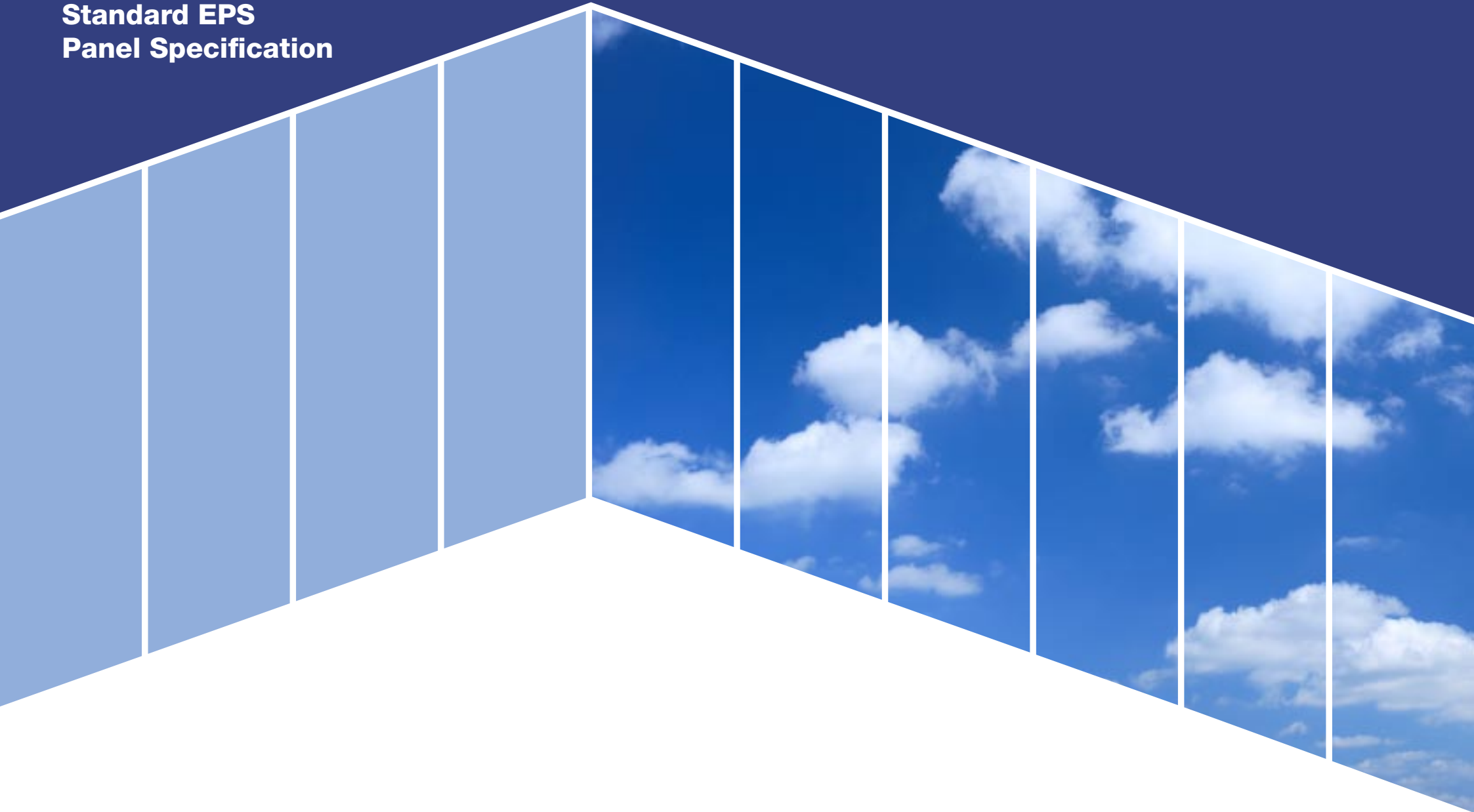


Standard EPS Panel Specification



Isoclad *EPS*

The multi purpose panel for temporary or cost effective containment



Isoclad EPS

Standard Panel Specification

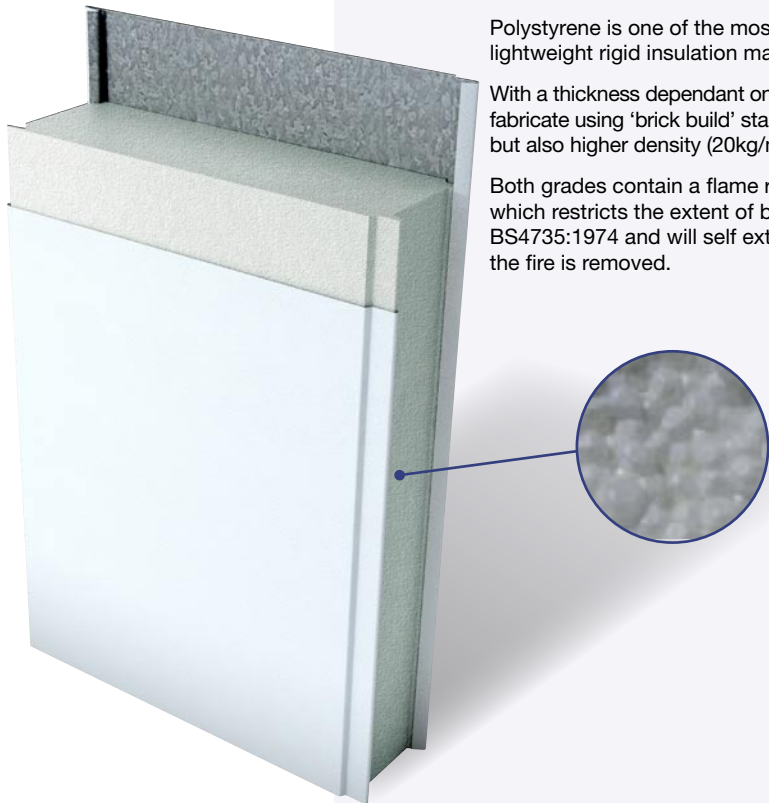
Isoclad manufacture a range of insulated and fire-resisting panels which can be used for wall systems, horizontally or vertically and ceilings. All panels are manufactured to an ISO 9001:2008 quality assurance system.

The main benefits of Isoclad EPS panels are its weight, strength and cost effectiveness, making it most suitable for areas such as stand alone cold and chill stores, areas of high moisture and low/no fire risk.

Polystyrene is one of the most cost effective lightweight rigid insulation materials available.

With a thickness dependant on the application, Isoclad fabricate using 'brick build' standard density (15kg/m³) but also higher density (20kg/m³) foam panels.

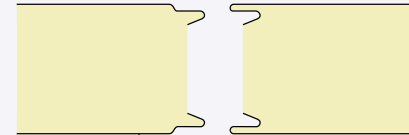
Both grades contain a flame retardant additive (FRA) which restricts the extent of burn when tested to BS4735:1974 and will self extinguish if the source of the fire is removed.



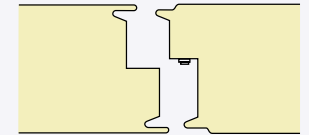
Joint Detail

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

Intaloc



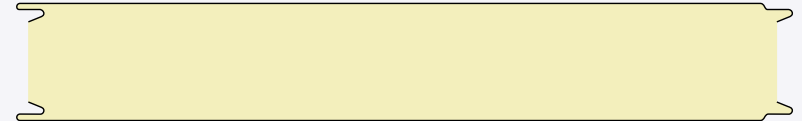
Secret Fix



Profiles (NOT TO SCALE)

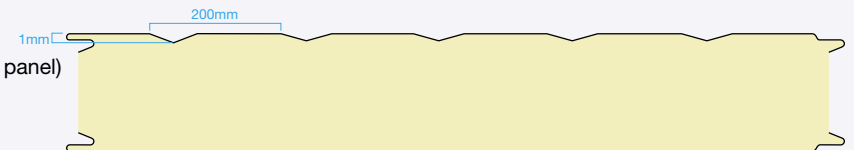
Flat

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.



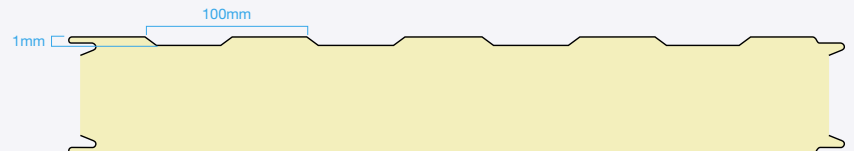
V-Rib

(Pitch 200mm - 5 per panel)



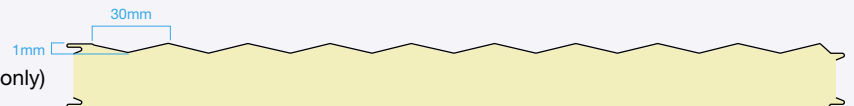
Castellation

(Pitch 100mm)



Micro rib

(Pitch 30mm - 1 side only)



Panel Weights (kg/m²)

Thickness	40	50	75	100	125	150	175	200
Polystyrene	10.1	10.3	10.7	11.1	11.5	11.9	12.3	12.7

Thermal Properties

Insulation Material	Thermal Conductivity W/m ² °C	50	75	100	125	150	175	200	250	300
Polystyrene	0.037	0.66	0.46	0.35	0.28	0.24	0.20	0.18	0.15	0.12

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 area	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 to 12 micron coat of epoxy

Structural Load Spans

Core/mm	Wall Spans (m). Max allowable loads KN/m ²								Max Span	Ceiling/Roof (m). Max allowable loads KN/m ²								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	9.0	10.0	
EPS Std Density 50	0.8	0.4	0.3	0.2					4.68	0.1								2.66
EPS High Density 50	0.9	0.5	0.3	0.2					4.91	0.2								3.19
EPS Std Density 75	1.3	0.8	0.5	0.3	0.2				6.23	0.7	0.3	0.1						4.20
EPS High Density 75	1.7	1.0	0.6	0.4	0.2				6.49	1.1	0.5	0.2						4.69
EPS Std Density 100	2.0	1.2	0.8	0.5	0.4	0.3			7.63	1.3	0.7	0.3	0.2					5.45
EPS High Density 100	2.6	1.5	0.9	0.6	0.4	0.3			7.92	2.0	1.0	0.5	0.3					6.04
EPS Std Density 125	2.6	1.5	1.0	0.7	0.5	0.4	0.3	0.2	8.92	1.9	1.0	0.5	0.3	0.1				6.30
EPS High Density 125	3.5	2.1	1.3	0.9	0.6	0.4	0.3	0.2	9.25	2.9	1.6	0.9	0.5	0.3				7.26
EPS Std Density 150	3.3	1.8	1.2	0.8	0.6	0.5	0.4	0.3	9.90	2.6	1.3	0.7	0.4	0.3	0.1			7.05
EPS High Density 150	4.5	2.7	1.7	1.2	0.8	0.6	0.4	0.3	10.47	3.8	2.2	1.3	0.8	0.5	0.3			8.40
EPS Std Density 175	3.8	2.1	1.4	1.0	0.7	0.5	0.4	0.3	10.69	3.1	1.6	0.9	0.6	0.4	0.2	0.1		7.76
EPS High Density 175	5.4	3.2	2.0	1.4	1.0	0.8	0.6	0.4	11.65	4.8	2.6	1.6	1.0	0.7	0.5	0.3		9.46
EPS Std Density 200	8.9	5.0	3.0	2.0	1.3	0.9	0.7	0.5	11.43	3.7	1.9	1.1	0.7	0.5	0.3	0.2	0.1	8.40
EPS High Density 200	3.8	2.1	1.4	1.0	0.7	0.5	0.4	0.3	12.77	5.7	3.1	1.9	1.2	0.8	0.6	0.4	0.3	10.47

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/EPS/spec/01/13

Isoclad *EPS*

The multi purpose panel for temporary or
cost effective containment

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