

Steel Skinned Panel Technical Information

AS/ISO 9705 – BCA Group Number (Spec C1.10a)

Enviroclad EPS-FR steel skinned insulated building panels conform to the requirements of BCA Specification C1.10a as either group 1 or 2 depending on the thickness and construction detail.

Group 1: Panel up to 250mm Thick with steel 'wall to wall' and 'wall to ceiling' angles fixed with steel rivets or screws at 1200mm centres is classified as group 1.

Group 2: Panel 150mm or less with aluminium 'wall to wall' and 'wall to ceiling' angles fixed with aluminium rivets at 300mm centres is classified group 2. Panel Thicker than 150mm requires steel 'wall to wall' and 'wall to ceiling' with steel rivets or screws at 300mm centres to be classified group 2.

Deflection limit of L/150 was used for design.

All values in span tables are approximate & calculated using method described in EN 14509:2013

Pressure specified are for wind gusts only per AS1170.

Theoretically, the bending moment & shear increases by 6.0 % & 30.0 % for EPS S Grade and by 12.0 % & 45.0 % for EPS M Grade.

Fire Hazard Properties – AS1530.3 indices

Ignitability Index – 0

Spread of Flame Index – 0

Heat Evolved Index – 0

Smoke Index – 2-4

Notes:

- 1- Fixing with min. 14g tek screws (x4) or mushroom head bolts (x2) per fixing point is required.
- 2- Coolroom span tables applies for cold room construction within another enclosed building.
- 3- Pressure relief ports should be installed in freezers appropriately depending on design.
- 4- Self-weight of panel has been allowed for in tables, plus an allowance of up to 10kg/m² for other fittings. No other dead loads permitted.
- 5- Non Trafficable maintenance access (concentrated load) no more than 140kg on any 1 panel has been allowed for (exceeding min. requirements of AS/NZS 1170.1:2002)
- 6- Distributed Live load 0.25Kpa has been allowed for.