

ANOTHER ROOM

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GRANT LAMONT P.O BOX 647 MORUYA NSW 2537

PANELEX CRP PANEL

TECHNICAL SPECIFICATIONS

GENERAL

Standard PANELEX insulated panel is manufactured by bonding two skins of 0.6 mm colourbond steel to a core of expanded polystyrene under heat and pressure using a two part thermosetting polyurethane adhesive.

SKINS

Standard PANELEX panel skins are 0.6 mm thick galvabond steel manufactured to AS1397 (Bluescope Steel. Zincform G300 Z275 CB BFC, see enclosed coating specifications), with a coating of surfmist (off-white) colourbond (standard colors also include pale eucalypt(mist green) and paper bark (merino), others available on request) 25 % gloss silicon modified polyester paint. These skins exhibit excellent durability, corrosion resistance and chemical resistance in all but the most aggressive environments including external cladding, piggeries and abattoirs. (see attached data sheets)

CORE

Standard PANELEX panels have a core of virgin "SL" grade **flame retardent** modified Expanded Polystyrene (E.P.S) complying with AS1366 part 3. E.P.S. Is a closed cell, resilient, light weight material with excellent thermal and noise resistance properties, long term stability and low toxicity. As E.P.S. Has no nutrient value it does not support bacterial growth, nor attract ants, termites or rodents.

Investigations by the CSIRO have shown that the combustion products of E.P.S> are less harmful than those of burning wood and other conventional building materials.

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PROPERTIES

TABLE 1 CO EFFICIENT OF THERMAL RESISTANCE - R VALUE

PANEL THICKNESS (mm)	50	75	100	150	200
R-Value m2 K/W	1.32	1.97	2.63	3.95	5.26

TABLE 2 RECOMMENDED INSULATION PANEL THICKNESS

PANEL THICKNESS (mm)	50	75	100	150	200
Temperature range C	25 to 7	10 to 0	2 to -6	-6 to -23	-23 to -34

** figures shown are interior operating temp. based on external ambient temp 35 degrees C

TABLE 3 SPAN TABLE

Panel thickness	weight Kg/m2	safe simply supported spans m (sydney 44 m/s)				
		wall		roof		ceilings
		category 3	category 2	category 3	category 2	(m)
50	12	4.6	3.2	3.1	2.4	3.1
75	12.6	5.6	3.9	4.2	2.9	4.2
100	13.2	6.4	4.5	5.0	3.4	5.1
150	14.4	7.9	5.5	6.1	4.1	6.7
200	15.6	9.1	6.4	7.1	4.8	7.9

SAFE SIMPLY SUPPORTED SPANS FOR PANELEX INSULATED PANEL 0.6 MM

note Spantables are based upon

1. AS117 Opt 1 - non traffic able roofs - live load
 2. AS117 Opt 11 - 44 m/s basic wind velocity- 50 year return period
- 10 mtr high roof - rectangular building , < 10 roof pitch