

TECHNICAL DATA SHEET

DESCRIPTION

RL PIR Board is a Polyisocyanurate (PIR) rigid foam panel faced on both sides with a multi-layered aluminium complex. Alternatively RL PIR Board can be supplied with a coated glass facer (CGF) for direct bonded membrane applications. RL PIR Board provides excellent thermal and fire performance and has exceptional compressive strength for a rigid thermoset insulation board.

APPLICATION

Rigid insulation layer providing high thermal performance in all RoofLogic UltraTherm Xtreme and UltraTherm MSR roofing systems.

ADVANTAGES

- Light panels with excellent rigidity and dimensional stability
- Excellent fire performance. RL PIR board satisfies the requirements of AS1366: Combustibility of foamed plastics. When incorporated within a properly designed Rooflogic system a Group 1S rating is achieved with the RL PIR insulation core (ASISO9705-2003;ISO9705:1993)
- Practically no water absorption due to its structure of closed cell foam and to the aluminium paper
- Lower thickness insulation due to the low thermal conductivity coefficient of PIR foam and the aluminium complex
- Easy to manipulate and cut during installation
- High compressive strength
- CFC/HCFC free with zero ozone depletion potential (ODP)
- Range of facer options dependent on specific system and application
- Does not allow water uptake by capillary action
- Rot proof

PROPERTIES

	CLASS acc. EN 13165	STANDARD	UNIT	SPECIFIED VALUES
Thermal conductivity coefficient	λ_i (7d, 10°C)	EN 12667	W/m·K	0.0215
Declared thermal conductivity coefficient	λ_D , 10°C	EN 12667	W/m·K	0.023
Compressive strength*	CS(10/Y)200	EN 826	kPa	225±50
Dimensional stability 48h, 70°C, 90 %HR	DS(70,90)3	EN 1604	%	long, anch. <2 esp. <6
Water absorption	WL(T)1	EN 12087	%	<1
Thickness	T2	EN 823	mm	e < 50 ±2 50 < e < 75 ±3 e > 75 +5 -2
Reaction to fire of the product	-	EN 13501-1 AS 1366	-	Euroclass E
Reaction to fire of the product in end use (insulation deck-type roofs)	-	EN 15715 Fire Test	-	B-s2, d0 Group 1-5

* Thickness below 45 mm, compressive strength class is CS(10/Y)175

THERMAL PROPERTIES

Thickness (mm)	40	50	60	80	100	120	140
Thermal resistance (m ² ·K/W)	2.06	2.32	2.60	3.45	4.35	5.20	6.10

Note: System R-values will be greater than the R-value of the RL PIR Board alone.