XTHERM
Next level Outsulation

Resene
Construction Systems

Technical Data Sheet

Product Name:

XTHERM PIR

Description:
XTherm PIR is a premium product for the insulation of timber-framed, steel-framed and masonry buildings. It is a high-performance insulation board made of expanded rigid Polyisocyanate (PIR) closed cell foam free of CFC or HCFC. It is bonded between two saturated fibreglass facings to improve coating adhesion and impact resistance..

Typical Uses:

- Insulated overlay to masonry buildings
- Insulated substrate over timber/steel framed buildings

Expectation:
An inert, rigid foam product does not settle, or take up moisture over time, thus ensuring the Thermal performance or R-value for the life of the building. It is impervious to water-related damage and deterioration, making it the perfect material for areas that are damp on a regular basis.

Technical Data:

Typical thicknesses:	50mm
Declared Thermal Conductivity $\lambda_{90/90}$(90/90 at 23° C/(W/mK)	0.02368
Declared Thermal Resistance R-Value (m2K/W)	50mm - R2.11
Board density (Average value with facing characteristics)	35 kg/m3 ± 1.5
Compressive strength (Value determined at 10% deformation [EN 826])	from 150 to 160 kPa depending on the thickness
Euroclass reaction to fire ([EN 13501 -1] [EN 13501 -2] [EN 13823 -SBI])	E
Specific heat capacity	1464 J/kg K
Water vapour diffusion resistance factor ([EN 12086])	μ = 56 ± 2
Water absorption (Total immersion for 28 days [EN 12087])	less than 2%w