



## DATA SHEET no 024/08

01-03-2008

### Brand name

**Xtratherm® Thin-R/FR ALU (XT/FR ALU)**

### Description

Flat roof insulation board of **Polyiso** rigid polyisocyanurate foam (PIR), faced on both sides with gastight, reflective, low emissivity tri-laminate aluminium foil.



**Xtratherm® XT/FR ALU** boards are (H)CFC/HFC free with ODP = 0. (Zero Ozone Depletion Potential)

The CE product delivery data are shown in the table below.

### CE-Designation Code:

**PIR-EN 13165- T2-DS(TH)8-DLT(2)5-CS(10\Y)150-TR80-FW2-WL(T)2**

Table 1: Product delivery data **Xtratherm® XT/FR ALU** Flat Roof Board

Property	Method of determination	Value	
Thickness and thermal resistance	EN 13165	See table 2	
Thermal conductivity coefficient	EN 13165	$d_N$ 50 – 140 mm	$\lambda_D$ <b>0.023 W/(m.K)</b>
Length x width <sup>1)</sup>	EN 13165	2400 mm x 1200 mm or 1200 mm x 1000 mm	
Fire class "reaction to fire"	EN 13501-1	Euroclass E	

1) other sizes available on request, for availability and lead times contact Xtratherm B.V.

### Thermal resistance and the Building Regulations: values for EPDB related calculations

Table 2 shows the thermal resistance of **Xtratherm® XT/FR ALU** Flat Roof Board. Other thicknesses can be supplied upon request. The boards are standard supplied with straight edge finish, Tongue & Groove (T&G) edge finish is optional, see the principle given here;

Thin-R T&G



Table 2: Thickness and thermal resistance **Xtratherm® XT/FR ALU** Flat Roof Board

Product Code	Thickness $d_n$ in mm	Thermal Resistance $R_D$ (m <sup>2</sup> .K/W)	Product Code	Thickness $d_n$ in mm	Thermal Resistance $R_D$ (m <sup>2</sup> .K/W)
XTFRA	50	2,15	XTFRA	100	4,30
XTFRA	60	2,60	XTFRA	120	5,20
XTFRA	70	3,00	XTFRA	140	6,05
XTFRA	80	3,45			
XTFRA	90	3,90			

Examples of construction U-value calculation for the **complete** Flat Roof are specified in the KOMO CTG 595 Agrément Certificate. For calculations contact Xtratherm Technical Support at the number **M: +31 (0)6 46196995**.



### Packaging

**Xtratherm® XT/FR ALU** flat roof insulation boards are supplied in polythene film-wrapped packs. The packs of insulation material should be stored with care and from the floor. If stored outside, the packs and/or boards need to be protected from the weather by means of, for example, a tarpaulin. The individual panels are not further marked for top or bottom side and can be installed with both sides up or down. Large size boards to be carried by 2 persons.

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Thin-R®

Polyiso

