

**DESCRIPTION:** Insulation board with a core of rigid polyurethane (PIR) foam covered with aluminium foil of 50µm on both sides, used as a thermal insulation for buildings in warm flat roofs under membrane waterproofing systems.

**PHYSICAL FEATURES:**

Weight (kg/m <sup>2</sup> )	PANEL THICKNESS (mm)					
	40	50	60	70	80	100 <sup>(3)</sup>
Width: 1.200 mm	1,28	1,60	1,92	2,24	2,56	3,20
Length: 2.500 <sup>(1)</sup> mm or 2.225 <sup>(2)</sup> mm						

- <sup>(1)</sup> Std. for road shipments. (Ask for other sizes).
- <sup>(2)</sup> Std. for sea shipments. (Ask for other sizes).
- <sup>(3)</sup> Ask for bigger thicknesses.



**TECHNICAL FEATURES:**

CONCEPT	SYMBOL	NORM REF.	DECLARED VALUE ± Tolerance:	UNIT	LEVEL/CLASS DECLARED	NOTES
Width	b	EN 822	1200 ±7,5	mm	--	--
Length	l	EN 822	2500 ±10	mm	--	--
Thickness	d	EN 823	40 ±2	mm	T2	--
			50 ±3			
			60 ±3			
			70 ±3			
			80 +5,-3			
100 +5,-3						
Squareness	S <sub>b</sub>	EN 824	< 5	mm/m	--	On length and width
Flatness	S <sub>max.</sub>	EN 825	≤ 10	mm	--	On length
Thermal conductivity	λ <sub>D</sub>	EN 12667	0,023	W/m*k	--	--
Thermal resistance	R <sub>D</sub>	EN 12667	1,75	m <sup>2</sup> *K/W	--	Thk. = 40 mm
			2,20			Thk. = 50 mm
			2,65			Thk. = 60 mm
			3,05			Thk. = 70 mm
			3,50			Thk. = 80 mm
			4,40			Thk. = 100 mm
Dimensional stability (Under specified conditions: R.H. and T) <sup>(4)</sup> (48 ± 1)h at (70 ± 2)°C and (90 ± 5)% HR <sup>(5)</sup> (48 ± 1)h at (-20 ± 3)°C	Δε <sub>L</sub> Δε <sub>b</sub> Δε <sub>d</sub>	EN 1604	Δε <sub>L</sub> ≤3 <sup>(4)</sup> ≤0,5 <sup>(5)</sup>	%	DS (70,90)2 DS (-20,-)2	Thk. < 80 mm
			Δε <sub>b</sub> ≤3 <sup>(4)</sup> ≤0,5 <sup>(5)</sup>			
			Δε <sub>d</sub> ≤8 <sup>(4)</sup> ≤2,0 <sup>(5)</sup>			
			Δε <sub>L</sub> ≤1 <sup>(4)</sup> ≤0,5 <sup>(5)</sup>			
			Δε <sub>b</sub> ≤1 <sup>(4)</sup> ≤0,5 <sup>(5)</sup>			
			Δε <sub>d</sub> ≤4 <sup>(4)</sup> ≤2,0 <sup>(5)</sup>			
Compressive stress	σ <sub>10</sub>	EN 826	≥ 120	kPa	CS(10/Y)120	At 10% Deformation
Tensile strength	σ <sub>mt</sub>	EN 1607	≥ 100	kPa	TR100	Perpendicular to faces
Water absorption	W <sub>lt</sub>	EN 12087	≤ 2	%	WL(T)2	--
Water vapour resistance	Z	EN 12086	20	hm <sup>2</sup> Pa/mg	Z20	Value from the test of: <b>ALU 1U</b>
Reaction to fire (Value end-use application)	--	EN 13501-1	B-s2,d0	--	--	Thk. ≤ 80 mm
			B-s3,d0			Thk. > 80 mm
Release dangerous substances	TVOC	ISO 16000-6	< 1000	µg/m <sup>3</sup>	A+	--

**PROPERTIES:**

- ✓ Closed cell foam
- ✓ No melt / No drop
- ✓ FCF / HCFC Free
- ✓ Great internal cohesion (Not delaminate)

For any further clarification, you can contact Technical Department ([tecnico@europafil.com](mailto:tecnico@europafil.com) or by phone).  
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