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TECHNICAL DATASHEET

TEKNOROOF®

PRODUCT DESCRIPTION

TEKNOROOF® is a thermo-insulating panel made by rigid, closed cells, green polyurethane foam covered on both sides with embossed aluminum foils (50µm thick, gas impermeable). A special metallic beam is integrated to the panel to correctly support roof tiles and allow microventilation.

PRINCIPAL APPLICATIONS

- Insulation of sloped roofs with microventilation effect.

TECHNICAL CHARACTERISTICS

Properties	Symbol	Value		Standard
	[Units]			
Apparent density facing included	MVA [Kg/m ³]	43		EN 1602
Initial thermal conductivity measured at average temp. 10°C (mean value)	$\lambda_{\text{mean},i}$ [W/mK]	0,022		EN 12667
Declared thermal conductivity measured at average temp. 10°C	λ_D [W/mK]	60 mm ≤ d ≤ 120 mm	0,024	EN 13165 (Annex A-C)
Declared thermal resistance derived from thickness and declared thermal conductivity ($R_D = d/\lambda_D$)	R_D [(m ² K)/W]	d = 60 mm	2,50	EN 13165
		d = 80 mm	3,30	
		d = 100 mm	4,15	
		d = 120 mm	5,00	
Compressive stress at 10% deformation	σ_{10} [kPa]	60 mm ≤ d ≤ 120 mm	≥150	EN 826

Properties	Symbol [Units]	Value	Standard
Water vapour diffusion resistance factor (μ)	MU	∞	EN 12086
Long term water absorption by total immersion (28 days)	WL(T) [%]	$\leq 1,2$	EN 12087 method 2A
Dimensional stability @ (+70 \pm 2) $^{\circ}$ C and (90 \pm 5)%U.R. for (48 \pm 1) h	DS (TH) [%]	Thickness variation : $\leq 4,0$	EN 1604
		Side variation: $\leq 1,0$	
Dimensional stability @ (-20 \pm 3) $^{\circ}$ C for (48 \pm 1) h	DS (TH) [%]	Thickness variation: $\leq 2,0$	EN 1604
		Side variation: $\leq 0,5$	
Reaction to fire	Euroclass	E	EN 11925-2 EN 13501-1
Specific heat	C_p J/kgK	1470	---

Dimensional tolerances (deviation from nominal values)

Thickness (d)	mm	d =60	± 3	EN 823	T2
		$80 \leq d \leq 120$	-2 ; + 5		
Length (L)	mm	2400	± 10	EN 822	
Width (b)	mm	330 ÷ 385	± 5	EN 822	

TEKNOROOF® panels are subjected to strict Quality Control according to the European Standard EN 13165 - "Thermal insulation products for building - Factory made rigid polyurethane foam (PUR) products – Specification" and to the procedures of our strict internal Quality System Control (according to UNI EN ISO 9001:2000).
Each pack includes a label, according to EN 13165, in which CE Certification and Designation Code are applied.