

TECHNICAL DATA SHEET

n° INSFR005/b cancels and replaces INSFR005/a

EFIGREEN ALU+

EFIGREEN ALU+ is a rigid polyisocyanurate foam (PIR) thermal insulation panel for the building, coated with a facing on each of its sides.

User application

EFIGREEN ALU+ is intended for the thermal insulation of waterproofed roofs as non-bearing thermal insulation panel, support for self-protected waterproofing system:

- Loose-laid under heavy protection,
- Self-protected, semi loose-laid with mechanical fasteners or self-adhesiveness,
- Self-protected, fully welded on a upper layer of expanded perlite (fibered).

Composition

	EFIGREEN ALU +
Rigid polyurethane foam	Beige colour
Facing	Multilayer

Packaging _____

		EFIGREEN ALU+
Dimensions	Length x width	600 mm x 600 mm
	Thickness	Refer to ACERMI* certificate
		Straight edge panel
Packaging		Panels are packed on non-stackable wrapped pallet
Marking		Each package is CE labelled
Storage		On flat support, away from weather Any colour changes of the foam does not affect product performances
* ACERMI: French a	ssociation for certification of	nsulation materials

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Characteristics - CE marking

EFIGREEN ALU+ is a rigid insulation panel for building and complies with EN 13165 "Factory made rigid polyurethane foam (PU) products".

Essential characteristics	Performances		Harmonised Technical Specification
Thermal conductivity – λ_D (W/(m.K))	0,023	0,022	-
Thickness – d (mm)	30-35	40-160	
Thermal resistance – R _D (m ² .K/W)	1,30-1,50	1,80-7,25	
Thickness tolerance	T	72	
Reaction to fire	N	PD	
Durability of reaction to fire against heat exposure, weathering, ageing/ degradation	(a)	
Thermal resistance durability against heat exposition, weather conditions, aging/ and damage Durability characteristics	N	PD	
Dimensional stability	N	PD	
Deformation under specified compressive load and temperature conditions	NPD		EN 13165 : 2012 +
Determination of thermal resistance and thermal conductivity values after ageing	(1	b)	A1:2015
Compressive strength	CS (10	\Y) 200	
Tensile strength	TR	150	
Durability of reaction to fire against heat exposure, weathering, ageing/ degradation			
Compressive creep	N.	PD	
Water permeability			
Short term water absorption	WS(P)0,2	
Long term water absorption	N	PD	
Flatness after partial immersion		PD	
Water vapour transmission		PD	
Acoustic absorption		PD	
Release of dangerous substances inside buildings		<u>c)</u>	
Continuous glowing combustion (a) No fire reaction properties variation for the polyurethane product:		c)	

- (a) No fire reaction properties variation for the polyurethane products with time.
- (b) Any variation in thermal conductivity and thermal resistance is treated and taken into account in the declared values. (Annex C for thermal conductivity and dimensional stability for the thickness).
- (c) European test methods are on-going.

Additional characteristics		Performances	Test method
Useful dimensions	Length	600 ± 3 mm	
	Width	600 ± 3 mm	EN 13165:
Thickness		30 to 160 ± 2 mm	2012+A1:2015
Squareness		≤ 3 mm/m	

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Characteristics (off CE marking)

Characteristics	Performances	Test method
Compressibility classification at 80°C under 40 kPa	С	UEAtc guideline § 4.51 (CSTB 2662-v2)
Curving under thermal gradient	≤ 3 mm	UEAtc guideline § 4.32 (CSTB 2662-v2)
Dimensional variation in the free state of deformation at 23°C after stabilization at 80°C	≤ 0,3 %	UEAtc guideline § 4.31 (CSTB 2662-v2)
Service critical resistance Service deformation	1 layer: Rcs mini = 100 kPa ds mini = 1,3%; ds max = 2 %	CSTB guideline 3230-v2

ACERMI certificate	n° 15 / 006 / 1093

Installation

EFIGREEN ALU+ panels are laid as non-bearing thermal insulation panels, support for waterproofing systems:

- Loose-laid under heavy protection,
- Self-protected, semi loose-laid with mechanical fasteners or self-adhesiveness,
- Self-protected, fully welded on a upper layer of expanded perlite (fibered).

EFIGREEN ALU+ is laid in 1 or 2 layers up to 240 mm for a bituminous or synthetic waterproofing system in compliance with the requirements of the Technical Approval "EFIGREEN ALU +".

Special indications

Hygiene, health and environment:

EFIGREEN ALU+ is not classified as dangerous according to French and European regulations.

For further information, please refer to relevant Safety Data Sheet, including precautions to take in case dusts or machining operations.

About product losses or batch remains: non-hazardous waste, not inert - reuse, incineration in Authorized Installation or stockpiled in an installation for Storage of Non-Hazardous Waste (ISDND: Dumps of class II).

The product has an Environmental and Health Declaration Sheet (FDES in french) for some thicknesses.

Traceability:

Product traceability is ensured through a manufacturing code present on the packaging : CCC/YY/HH/MM/N/ACERMI

Calendar day / Year / Hour / Minute / Production site marker/number of ACERMI certificate

QSE integrated system:

SOPREMA has always attached the highest importance to the quality of its products, to the respect of environment and men.

For this reason, we apply an integrated management of the Quality (ISO 9001), Environment (ISO 14001) and Health-Security (OHSAS 18001) certified.

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