

EFIGREEN A

EFIGREEN A is a rigid polyurethane foam (PUR) thermal insulation panel for the building, coated with a facing on each of its sides.

User application

EFIGREEN A is intended for the thermal insulation of waterproofed roofs as non-bearing thermal insulation panel, support for asphaltic-base waterproofing system, semi loose-laid under heavy protection.

Composition

		EFIGREEN A
Rigid polyurethane foam		Beige colour
Facing		Water repellent micro perforated mineral

Packaging

		EFIGREEN A
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 do not affect product performances

* ACERMI: French association for certification of insulation materials



Characteristics - CE marking

FIGREEN A 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))	0,027	EN 13165: 2012 + A2:2016
Thickness – d (mm)	30-120	
Thermal resistance – R_D (m ² .K/W)	1,10-4,40	
Thickness tolerance	T2	
Reaction to fire	NPD	
Durability of reaction to fire against heat exposure, weathering, ageing/ degradation	(a)	
Durability of thermal resistance against heat exposure, weathering, ageing/ and degradation	NPD	
Durability characteristics		
Dimensional stability		
Deformation under specified compressive load and temperature conditions		
Determination of thermal resistance and thermal conductivity values after ageing	(b)	
Compressive strength	CS(10\Y)200	
Tensile strength	NPD	
Durability of compressive strength against ageing, degradation	NPD	
Compressive creep		
Water permeability	WS(P)0,2	
Short term water absorption		
Long term water absorption		
Flatness after partial immersion	NPD	
Water vapour transmission	NPD	
Acoustic absorption	NPD	
Release of dangerous substances inside buildings	(c)	
Continuous glowing combustion	(c)	

(a): Polyurethane fire resistance does not degrade with time.

(b): Any variation of thermal conductivity and thermal resistance is processed and taken in account in the declared values (Annex C for thermal conductivity and dimensional stability for the thickness).

(c): European test methods are ongoing.

Additional characteristics	Performances	Test method
Useful dimensions	Length Width	EN 13165: 2012 + A2:2016
Thickness	600 ± 3 mm 600 ± 3 mm	
Squareness	From 30 to 120 ± 2 mm	
	≤ 3 mm/m	



Characteristics (off CE marking)

Additional characteristics	Performances	Test method
Curving under thermal gradient after packaging at 80°C	≤ 2 mm	UEAtc guideline § 4.32 (CSTB book 2662-v2)
Residual dimensional variation at 20°C after stabilization at 80°C	≤ 2 mm/m	UEAtc guideline § 4.31 (CSTB book 2662-v2)
Compressibility class at 80°C under 40kPa	C	UEAtc guideline § 4.51 (CSTB book 2662-v2)
Service critical resistance Service deformation	In 1 layer Rcs mini = 100 kPa ds mini = 1,3%; ds max = 1,9% In 2 layers Rcs mini = 100 kPa ds mini = 1,0%; ds max = 1,6%	CSTB guideline 3230-v2
ACERMI certificate	03 / 006 / 105	

Installation

FIGREEN A panels are laid as non-bearing thermal insulation panels, support for waterproofing systems, in compliance with Technical Approval (DTA) n° 5/15-2448.

Special indications

Hygiene, health and environment:

FIGREEN A 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: CCC/YY/HH/MM/N/ACERMI
Calendar day / Year / Hour / Minute / Production site marker/number of ACERMI certificate.

QSE integrated system:

The product is manufactured and applied under an integrated management of the **Quality (ISO 9001), Environment (ISO 14001) and Health-Security (OHSAS 18001) certified.**