

n° INSFR012/a

TECHNICAL DATA SHEET

EFISARKING

EFISARKING is a rigid polyurethane thermal insulation panel with multilayer facing on its two faces used for buildings.

User application

EFISARKING is used for external thermal insulation of sloped roof according to the method called "Sarking" used on traditional wooden frames for residential, commercial or public-access (ERP) buildings. The use of this method is restricted to local with low and medium hygrometry of buildings in plain climate (altitude less than 900 m)

Composition

	EFISARKING
Rigid polyurethane foam	Cream color
Upper and lower facing	Multilayer complex with a reflective facing

Packaging _

		EFISARKING		
Dimensions	Length x width Thickness	2410 mm x 1200 mm Refer to ACERMI* certificate Tongue and grooved, length direction with machining centered		
Marking		Each package is CE labelled		
Packaging		On pallet, under retracted wrapping		
Storage		On flat support, away from weather Any changes in color of the foam does not affect product performance		
* ACERMI: French association for certification of insulation materials				

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SOPREMA SAS with a Capital of 50 000 000 € - Headquarter: 14 rue de Saint-Nazaire – 67100 STRASBOURG – FRANCE Postal adress: CS 60121 - 67025 STRASBOURG CEDEX. RCS STRASBOURG: 314 527 557.SOPREMA reserves the right to amend the composition of its material and consequently their prices, without prior notice. For this reason, all orders will be accepted only in accordance with the conditions and technical specifications in force at the date of order.





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CE

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Characteristics - CE marking

EFISARKING is a rigid insulation panel for buildings and complies with EN 13165: Factory made rigid polyurethane foam (PU) products.

Essential characteristics	Perfor	Harmonised Technical Specification	
Reaction to fire			
Thermal conductivity – λ (W/(m.K))),022	
Thickness – d (mm)	$\mathbf{d}_{\min} = 40$	$\mathbf{d}_{\max} = 160$	
Thermal resistance – R (m ² .K/W)	$R_{min} = 1,85$	$R_{max} = 7,40$	
Classes for thickness tolerances	1	۲ <u>2</u>	
Dimensional stability under specified	DS (7	0,90) 2	
temperature and humidity	D3 (7)	0,90) 2	
Compressive strength (kPa)	CS (10	/Y) 175	
Tensile strength perpendicular to faces (kPa)	NPD		
Water absorption	WS (P)		EN 13165 : 2012
Flatness after partial immersion	NPD		EN 13105 : 2012
Water vapour transmission	NPD		
Compressive creep	CC (2/1,5/10) 50		
Deformation under specified			
compressive load and temperature	N	PD	
conditions			
Acoustic absorption index	NPD		
Direct airborne sound insulation index	N	PD	
Release of dangerous substances inside buildings	[1]		
Continuous glowing combustion	[

[1]: Thermal insulation products should not release regulated hazardous substances exceeding maximum permitted levels specified in the european or national regulations. European test methods are being developed.
[2]: A test method is being developed and, when available, the standard will be changed.

Additional characteri	stics	Performances	Test method
Useful dimensions :	Length	2400 mm ± 10 mm	
	width	1190 mm ± 7,5 mm	EN 13165 : 2012
Squareness		≤ 5 mm/m	EN 13165 : 2012
Flatness		≤ 10 mm	

Characteristics (outside CE marking)

Characteristics	Performances	Test method	
Facing emissivity	< 10 %	Total hemispherical emissivity (LNE)	
Water vapour transmission of the facing	Sd > 150 m	EN 1931	
ACERMI certificate	n° 12 / 006 / 749		
indoor air	A+		

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Installation

Panels **EFISARKING**, used for external thermal insulation of sloped roof, are installed in compliance with SOPREMA guidelines "EFISARKING – Roof thermal insulation in plain climate". The fixing of counter-battens is done by using screws:

- simple thread EFIVIS SF, laid perpendicular to the slope, for insulation thickness up to 160 mm,
- double thread EFIVIS DF, alternately placed at an angle of 60° / 120° relative to the slope, for insulation thickness up to 160 mm.

The following tab shows the required length of screws **EFIVIS** depending of the insulation thickness, substrate and counter-battens.

		Insulation thickness EFISARKING (mm)						
		80	86	115	130	16	50	172
		R=3,70 m ² .K/W	R=4,00 m ² .K/W	R=5,30 m ² .K/W	R=6,00 m ² .K/W	R=7,40m ² .K/W		R=7,90 m ² .K/W
			Counter-b	oattens, heig	ht 27 mm			
	Without				EFIVIS SF		EFIVIS DF	
Ê	without				220 mm		300 mm	
Ē								
12				EFIVIS SF	EFIVIS SF			
es:	14	EFIVIS SF 200 mm		220 mm	240 mm			
Planking thickness	18							
hic	26			EFIVIS SF		EFIVIS SF		EFIVIS DF
≅ ∰ 26				240 mm		280 mm		330 mm
			Counter-b	oattens, heig	ht 40 mm			
	Without			EFIVIS SF	EFIVIS SF		EFIVIS DF	
(mm)	without			220 mm	240 mm		300 mm	
Ē	10	EFIVIS SF				ĺ		
	12	200 mm						
ess	14			EFIVIS SF	EFIVIS SF		EFIVIS DF	
Planking thickness	18		EFIVIS SF	240 mm	280 mm		330 mm	
hic	26		220 mm			EFIVIS DF		Consult us
с Ъ	26					300 mm		

* Nature and characteristics of the planking forming ceiling are defined according to the requirements of the fire regulations applicable to the construction and mechanical design criteria.

The density of fasteners depends on the roof slope, applied loads (own weight of the cover and snow load) and the height of the counter-batten.

The bridging of joints panels and special details are done with a strip **EFIBANDE BUTYLE**. This is a waterproofing strip made from butyle adhesive mass and a complex of aluminum reinforced with a polyester film. The roll are of 20 m length and 75 mm width.

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FECHNICAL DATA SHEET

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Special indications

Hygiene, health and environment:

EFISARKING 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:

 $\label{eq:product} Product \ traceability \ is \ ensured \ through \ a \ manufacturing \ code \ present \ on \ the \ packaging \ : CC/YY/HH/MM/N/ACERMI$

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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