EFIGREEN ITE

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

User application

EFIGREEN ITE is intended for external wall thermal insulation coated of:

- Ventilated facade cladding on frame
- External wall insulation system or decorative renders cladding

The thermal insulation panels are used for new construction or renovation, in 1 or 2 layers, on flat vertical walls, blind or with windows, on new or old supports.
EFIGREEN ITE panels are suitable for different types of building in accordance with the requirements of fire and seismic regulations associated to the reference guideline.

	✓ Housing from 3rd and 4th category ✓ ERP (Public-access buildings) →IT n° 249 is applying	✓ Housing from 1st and 2nd category →IT n° 249 is not applying
CSTB book n° 3194 (Metal frame)	EFIGREEN ITE ≤ 100 mm 100 mm < EFIGREEN ITE* ≤ 240 mm * *Application of Laboratory Appreciation n° AL14-145*	EFIGREEN ITE ≤ 240 mm
CSTB book n° 3316 (Wood frame)	EFIGREEN ITE ≤ 100 mm	
Technical guideline EFIGREEN ITE (Wood frame)	Not concerned	

EFIGREEN ITE is limited to buildings whose the category of importance and the location according to the seismic regulations are defined in the Technical Approval of the chosen cladding. In the case of a laying according to the **EFIGREEN ITE** technical guideline, all the buildings located in the seismicity area 1 are aimed as well as the buildings of category I and II located in the seismic zone 2.

Composition

	EFIGREEN ITE
Rigid polyurethane foam	Cream colour
Facing	Embossed aluminium foil 50 µm

Packaging

		EFIGREEN ITE
Dimensions	Length x width Thickness	1200 mm x 1000 mm or 2500 mm x 1200 mm Refer to ACERMI* certificate Tongued and grooved panel on its 4 sides
Marking		Each panel is marked with a code ensuring the traceability of the production. Each package is CE labelled
Packaging		Size 2500 x 1200: panels are conditioned on a wrapped pallet Size 1200 x 1000: panels are packed on a wrapped pallet
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		

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.
Tel: + 33 (0) 3 88 79 84 84 – Fax. : + 33 (0) 3 88 79 84 85
www.soprema.com - E-mail : export@soprema.com

Characteristics - CE marking

EFIGREEN ITE is a rigid insulation panel for buildings 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**	**EN 13165: 2012 + A1:2015**
Thickness – d (mm)	**30-162**	
Thermal resistance – R_D (m².K/W)	**1,30-7,05**	
Thickness tolerance	**T2**	
Reaction to fire	**D-s2,d0 30-55 mm** **C-s2,d0 60-100 mm** **D-s2,d0 104-162 mm**	
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	**NPD**	
Dimensional stability	**NPD**	
Deformation under specified compressive load and temperature conditions	**NPD**	
Determination of thermal resistance and thermal conductivity values after ageing	**(b)**	
Compressive strength	**CS (10\Y) 150**	
Tensile strength	**NPD**	
Durability of reaction to fire against heat exposure, weathering, ageing/ degradation Compressive creep	**NPD**	
Water permeability		
Short term water absorption	**WS(P)0,2**	
Long term water absorption	**NPD**	
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 x width	**2490 mm ± 10 mm x 1190 mm ± 7,5 mm** **1190 mm ± 7,5 mm x 990 mm ± 5 mm**	**EN 13165: 2012 + A1:2015**
Thickness	**30 to 120 mm ± 2 mm** **125 to 165 mm ±5/-3 mm**	
Squareness	**≤ 5 mm/m**	
Flatness	**Gap ≤ 10 mm**	

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Characteristics (off CE marking)

Characteristics	Performances	Test method
Compressibility classification at 80°C under 40 kPa	**≤ 0,5 %**	**UEAtc guideline** (CSTB 2662-v2)
Water vapour transmission of the facing	**Sd > 100 m**	**EN 1931**

ACERMI certificate	**n° 03 / 006 / 109**

Installation

EFIGREEN ITE associated with a ventilated facade cladding:

EFIGREEN ITE panels, intended for external wall (masonry, concrete or wood) thermal insulation, are laid in compliance of the specifications:

- CSTB book n° 3194 “Metal frame and thermal insulation for cladding subject to a Technical Approval or statement of traditional way of doing”: The metal frame is fixed to the bearing structure by using anchoring clamps.
- CSTB book n° 3316-v2 “Timber frame and thermal insulation for cladding subject to a Technical Approval or statement of traditional way of doing”: The timber frame is fixed to the bearing structure by using anchoring clamps or directly on the structure.
- **SOPREMA** Technical guideline “**EFIGREEN ITE** – Vertical walls thermal insulation”: the timber frame for the cladding is placed on the insulation panels and fixed to the bearing structure through the panel. **EFIGREEN ITE** panel are laid in one layer and 120 mm maximum thickness or in two layers up to a total thickness of 240 mm maxi.

EFIGREEN ITE associated with an external wall insulation system or decorative renders cladding:

EFIGREEN ITE panels intended for external wall (masonry, concrete or wood) thermal insulation are laid in compliance with the Technical Approvals of the external wall insulation system or decorative renders cladding.

In any case, the facade cladding or the ventilated composite cladding / non-ventilated cladding are laid according to the manufacturer’s specifications while respecting:

- Seismic regulation
- Fire regulation depending on the type of building, its classification and the nature of the facade cladding.

Special indications

Hygiene, health and environment:

EFIGREEN ITE 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.**

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