

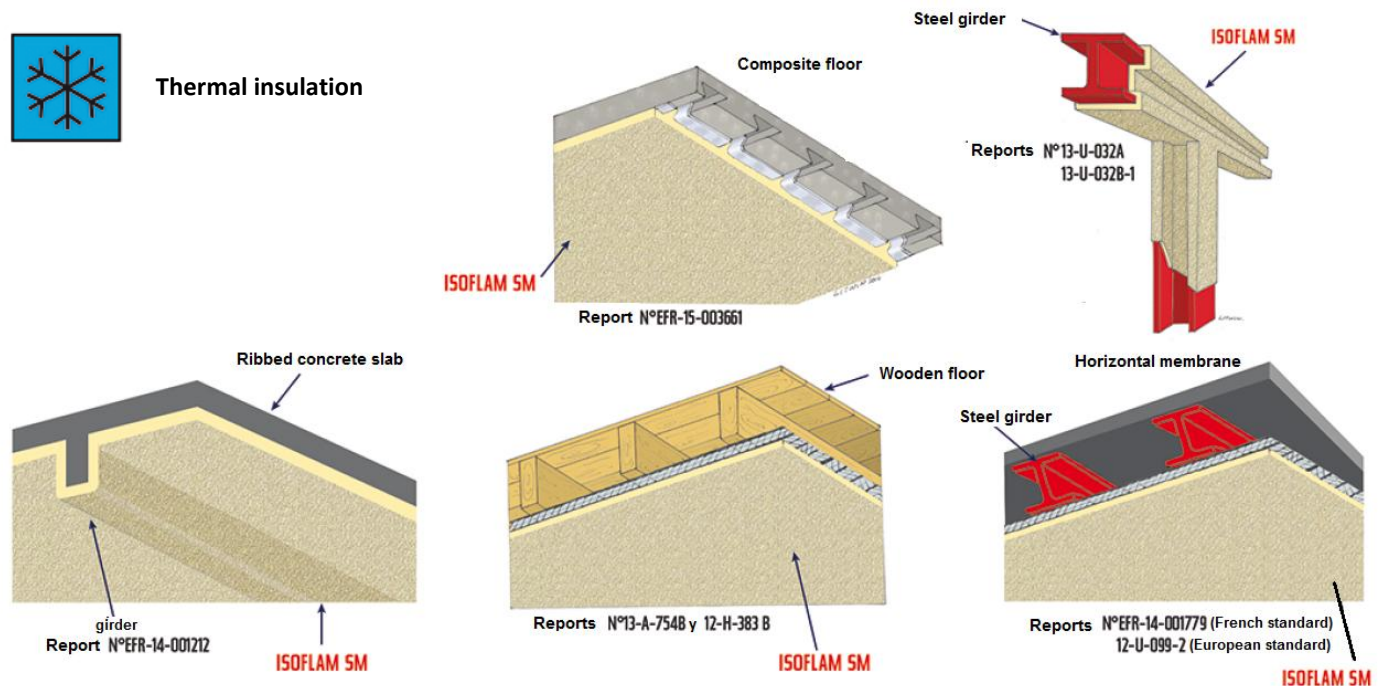
Fields of application



Fire protection
(concrete structures, metallic structures, composite floors, wooden floors, horizontal membranes)



Thermal insulation



Definition

ISOFLAM SM is a fibrous product made of mineral wool slag, hydraulic binders and additives. Applied wet by direct spraying onto the surface requiring protection (after the creation of a bonding bridge using a primer from the ISOFIX product range or placement of a wire mesh), it is designed to provide passive protection against fire affecting concrete structures, steel structures, composite floors, wooden floors and horizontal membranes. ISOFLAM SM, apart from its resistance to fire, also acts as a thermal insulator.

Technical characteristics

Thickness	between 12 and 94 mm depending on the surface requiring protection
Surfaces	metallic structures, wooden floors, horizontal membranes, concrete structures (flat, ribbed, prestressed and reinforced slabs, girders and rectangular pillars) and composite floors
Volumetric mass	250 kg/m ³
Ph	around 10
Colour	off-white, rustic and uniform appearance, slightly granular
Finish	rolled or compressed
Thermal conductivity	$\lambda = 0.050 \text{ W /m.K}$ according to RT 2012 (energy efficiency)
Reaction to fire	A1
Health	not classified as a carcinogen, bio-soluble product complying with European Directive 97/69/EC
Environment and safety	FDES (environmental and health declaration sheet) and FDS (safety data sheet) available

Advantages / Properties

- Non-toxic, rot-proof, vermin- and rodent-resistant, does not favour mould growth or the development of fungi
- No emission of toxic or dangerous gases in case of fire
- Chemically inert, displays a slightly alkaline reaction in contact with water
- Does not cause or favour corrosion
- Applicable on all surfaces and capable of absorbing any expansions or irregularities without fissuring
- Monolithic application without losses, without seals or thermal bridges

Example for a reinforced concrete slab with a thickness > 12 cm and a reinforced concrete girder > 15 cm, coating of steel < u > = 10 mm		REI EXPOSURE DURATION				
		60	90	120	180	240
Concrete slab	thickness ISOFLAM SM (mm)	15	15	20	25	30
Concrete girder	thickness ISOFLAM SM (mm)	15	20	20	30	40

PROTECTION WOODEN FLOOR	LENGTH OF TIME EXPOSURE REI	
Thickness ISOFLAM SM (mm)	60	120
	39	75

PROTECTION COMPOSITE FLOORING	LENGTH OF TIME EXPOSURE REI					
Thickness ISOFLAM SM (mm)	30	60	90	120	180	240
	16	16	17	21	29	37

Application

- Complies with DTU 27.1 (AFNOR Standard P15-202) and with our test reports
- Pneumatic projection with water on sound and dry surfaces using a mineral wool applicator machine
- Ambient air temperature and temperature of support > 5°C and < 45°C
- Drying time: between 10 and 20 days in ventilated rooms (initial setting time between 2 and 4 days)
- Bonding primers: ISOFIX TS or TS-M, BTT (200 to 300 g/m²)
- Finishing products : ISOFILM or ISOCOAT
- Can be painted

Appearance / Storage

- Ready-to-use product in the form of sized nodules containing additives
- Packed in polyethylene bags each weighing 25 kg on shrink-wrapped wooden pallets
- Pallets measuring 0.80 x 1.20, 8 rows of 3 bags, i.e. 24 bags or 600 kg/pallet
- Bags and pallets marked for traceability
- Maximum storage period: 8 months protected from moisture and adverse weather conditions