

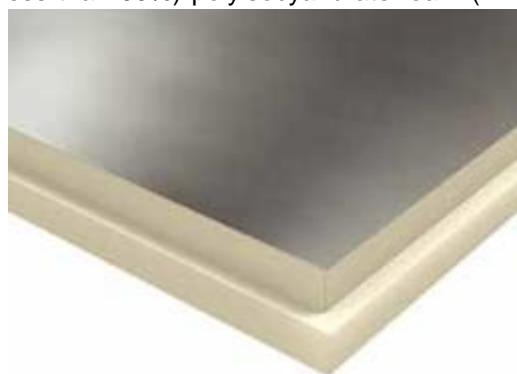
Technical data sheet

PIR thermal insulation boards

Proprietary standard 72746455-3.8.1-2014

Product description:

Heat insulation material based on the rigid closed-cell (no less than 95%) polyisocyanurate foam (PIR). The boards are laminated with kraft paper, cardboard, glass fibre, aluminum foil or multilayer laminate (incl. waterresistant foil with paper foundation) and paper laminated with polyethylene. Due to their structure and production features PIR heat insulation boards have low thermal conductivity, low water absorption, high strength, and high fire resistance. PIR thermal insulation boards is a thermal insulation material. Resistant to weather and rot impact, they have extremely long service life (incl. in corrosive environment and under high humidity). When exposed to fire, PIR thermal insulation boards form a graphite protective layer on their surface. It prevents the flame spreading and serves as a reliable protection against further effects of fire.



Application:

PIR thermal insulation boards are used in civil and industrial buildings while installing flat roofing systems with the profiled and concrete foundation, waterproofing rolled materials and other types of waterproofing materials. PIR thermal insulation boards can also be used for floor heating (incl. loaded constructions), facades, plinths, and pitched roofs.

Product technical data:

Essential Characteristics	Requirement clauses in EN 13967 standard	Performance
Thermal resistance	4.2.1 Thermal resistance and thermal conductivity	$\lambda D=0,022 \text{ W/m}^*K$; For each thickness calculation of thermal resistance with: $RD = \text{nominal thickness}/\lambda D$ (rounded downwards to the nearest $0,05 \text{ m}^2*K/W$)
	4.2.3 Thickness	dN: from 30 mm to 200 mm adjustable in increments of 10 mm
Reaction to fire	4.2.6 Reaction to fire of the product as placed on the market	RtF Class E
Durability of reaction to fire against heat, weathering, ageing/degradation	4.2.7.2 Durability of reaction to fire of the product as placed on the market	Reaction to fire does not change with time
Durability of thermal	4.2.1 Thermal resistance	$\lambda D=0,023 \text{ W/m}^*K$;

resistance against heat, weathering, ageing/degradation	and thermal conductivity	For each thickness calculation of thermal resistance with: $RD = \text{nominal thickness} / \lambda D$ (rounded downwards to the nearest 0,05 m ² *K/W)
	4.2.7.3 Durability characteristics	NPD
	4.3.2 Dimensional stability	DS(70,90)3 DS(-20,-)2
	4.3.3 Deformation under specified compressive load and temperature conditions	NPD
Compressive strength	4.3.4 Compressive stress or compressive strength	CS(10\Y)120
Tensile/Flexural strength	4.3.5 Tensile strength perpendicular to faces	NPD
Durability of compressive strength against ageing/degradation	4.3.6 Compressive creep	NPD
Water permeability	4.3.7.1 Short term water absorption	NPD WL (T) 1%, no more than
	or 4.3.7.2 Long term water absorption	
Water vapour permeability	4.3.9 Water vapour transmission	NPD
Acoustic absorption index	4.3.10 Sound absorption	NPD
Release of dangerous substances to the indoor environment	4.3.11 Release of dangerous substances	No harmonized test method available
Continuous glowing combustion	4.3.13 Continuous glowing combustion	No harmonized test method available

Transportation and storage:

The boards shall be transported in covered vehicles. PIR insulation boards shall be stored in sheltered warehouses or under shelter protecting them from sun radiation.



Building the best together!

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Package information:

Shall be packed in UV-stabilized film and delivered in pallets.