

TECHNOROOF

TS 5762-043-17925162-2006



High strength

High heat-saving capacity

Neutrality when contacting concrete and metals

Application areas

To be used as the basic heat-insulation layer in coverings made of reinforced-concrete or metal profile-shaped flooring with all types of roof cladding, including without protective underlayments, in civil and industrial applications in new construction and reconstruction of various buildings and structures.

Description of material

TECHNOROOF are nonflammable, waterproofing, heat- and sound insulating slabs made of basalt rock stonewool with a low-phenol binder.

Storage

The slabs must be stored in covered warehouses. Storage under an awning protecting the slabs from atmospheric precipitation is permitted. Slabs during storage should be laid in containers or in piles on pallets or linings. The piling height during storage should not exceed 2 m.

Basic physical and mechanical properties

Property	TECHNOROOF 45	TECHNOROOF 50	TECHNOROOF 60	TECHNOROOF 70
Compression strength at 10% deformation, kPa, not less than	45	50	60	70
Concentrated load, N, not less than	550	600	600	600
Flammability grade	NG	NG	NG	NG
Thermal conductivity, W/m°C				
λ_{10}	0,036	0,036	0,037	0,038
λ_{25}	0,038	0,039	0,039	0,040
λ_A	0,040	0,043	0,046	0,043
λ_B	0,042	0,046	0,049	0,047
Interlaminar strength, kPa, not less than	10	10	12	12
Vapor permeability, mg/(m*h*Pa), not less than	0,3	0,3	0,3	0,3
Humidity by weight, %, no more than	0,5	0,5	0,5	0,5
Water absorption by volume, %, no more than	1,5	1,5	1,5	1,5
Content of organic substances, %, no more than	4,5	4,5	4,5	4,5
Density, kg/m ³	126–154	145–175	155–185	165–195
Length, mm	1000, 1200	1000, 1200	1000, 1200	1000, 1200
Width, mm	500, 600	500, 600	500, 600	500, 600
Thickness (with increments of 10 mm), mm	50–110	60–110	60–110	60–110