



Technical data sheet

• PRODUCT DESCRIPTION

The product is made of the new insulating material Stered®, recycled from mixed technical synthetic textiles Basic tuft bonded with PUR binder and pressed into the shape, especially the board. It is manufactured on the basis of patented mechanical recycling of synthetic textiles used in the automotive industry.

The product is designed especially for acoustic, antivibration, thermal and sound insulation solutions and retention applications.

Stered ID 250 contains 250 kg / m³ of material. The standard board has dimensions of 500 x 500 mm and a thickness of 50 mm, on request in the dimensions of 1200 x 600 mm and in a thickness of 50 mm.

At the customer's request, the manufacturer can carry out additional surface treatment of the board. The type of treatment is indicated by a letter in the product designation.

Reducing the ignition and spread of fire F: Akrymal is sprayed on the base product in order to achieve resistance to the ignitability of a construction product exposed to direct flame and fire propagation. The Akrymal mass is a mixture of inorganic substances, pigments, rheological additives, special additives copolymer environment. Special additives provide flame retardancy to this color, making it substantially different from conventional finishes based on a copolymer acrylic dispersion. The mass is applied in an amount of up to 0.7 kg / m². The number of sides of the Akrymal surface is expressed by the numeral after the letter F - F1 area 1200x600mm, F5 area 1200x600mm + all sides, F6 all areas of the plate.

• BASIC CHARACTERISTIC

Declared thermal conductivity:	$\lambda = 0,061 \text{ W / mK}$
Declared Sound Absorption Value / Sound Absorption Class:	0.90 Hz / A
Declared quantity DL α in terms of road noise absorption:	9dB / category A3

• WHY STERED® RIGHTS

- ☑ unique construction insulating material for noise problems
- ☑ very effective in dealing with damping of dynamic environment and vibration
- ☑ has very good thermal and acoustic insulation properties
- ☑ up to 50% of the volume is long-term water retention
- ☑ more than 90% of the material is synthetic
- ☑ Long service life due to stable physical and mechanical properties
- ☑ Above-standard moisture resistance
- ☑ dimensional stability
- ☑ Stered ID 250 can be used outdoors and indoors,
- ☑ stable to repeated freeze-thaw cycles.
- ☑ easy, quick and easy assembly that requires no technology or extra craftsmanship
- ☑ without the use of personal protective equipment as the material is friendly to the human organism
- ☑ non-toxic, resistant to molds and rodents
- ☑ the product is suitable for recycling at the end of its service life

• FIELD OF APPLICATION

The Stered ID 250 tile sets new features for use in individual building systems, in particular Ade wherever standardized noise and vibration attenuation parameters are required,

☑ In the composition of paved areas as a water-retaining and water-vapor liner with a load for walking, passenger car and occasional passage of the operator up to 3.5 t



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• PROPERTIES

Technical parameter	Unit	Value
Thickness	mm	50 ± 5
Format	mm	500 x 500 ±5
Board area	m ²	0,25
Flatness	mm	max ± 6
Board weight	kg	3,125
Material density	kg/m ³	250
Pieces per pallet	ks / m ² / kg	104/ 26 / 325 (411 wet)
Compressive stress at 10% compression	kPa	min. 15
Tensile strength perpendicular to the plane of the board	kPa	min. 20
Compressibility	mm	max. 5
Surface load up to max. 10kN, 2,000,000 cycles, compression	mm	max. 8,6, permanent 1,7
Short-term water absorption at partial immersion Wlp process A	kg/m ²	max. 20
Long-term absorption at partial immersion Wlp - process A	kg/m ²	max. 25
Water vapor permeability μ	-	max.4 (-)
Health harmless	-	in accordance with the relevant provisions
Reaction to fire	-	E

• PACKING

Stered ID 250 boards are packed on a pallet of 1000x1000x1400 mm, (1200x1200x1400 mm), bound with PE tape with the manufacturer's designation and the basic technical characteristics of the product stated on the label.

• APPLICATION

Stered ID 250 can be used as thermal and acoustic (vibration) insulation for dynamically loaded floors. In the case of dynamically loaded floors, it is recommended to insert the geogrid for reinforcement.

STERED board has high adhesion to concrete and can also be applied as permanent shuttering. Advantageously, the board STERED ID 250/050 can be used as a retention and distribution pad in the composition of paved areas (pavements, parking places for cars). The board ensures the function of an open water retention system and its evaporation, evaporating water contributes to the cooling of the air above the surface and limits the overheating and accumulation of heat in the surface.

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