



Technical data sheet

• PRODUCT DESCRIPTION

The product is made of new insulating material Stered®, recycled material from mixed technical synthetic textiles. 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 200 board contains 200 kg / m³ of material. The standard board has dimensions of 1200 x 600 mm and 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.

Fixing the front face of the board M: a glass cloth grille is glued to the front face of the board. The same adhesive as for the production of the pressed board is used for gluing.

Increasing the airborne sound insulation of the board K: On one surface of the board, fiberglass fleece or other textiles made of synthetic materials are glued over the entire surface. A flexible adhesive is used for gluing. This results in an increase in airborne sound insulation R_w '.

• BASIC CHARACTERISTIC

Declared thermal conductivity:

$\lambda = 0.054 \text{ W / mK}$

Declared Sound Absorption Value / Sound Absorption Class:

0.90 Hz / A

Declared quantity $DL\alpha$ in terms of road noise absorption:

13dB / category A4

• WHY STERED® RIGHTS

☑ advantageous combination of acoustic properties (noise absorption), thermal insulation and retention properties

☑ unique insulating material for noise problems, very effective in addressing noise attenuation in space and transport infrastructure

☑ advantageous combination for vegetation and similar areas and water management in the area (layer for vegetation life, drainage and as a layer for water retention and water vapor)

☑ up to 50% of the product volume is long-term water retention with the ability to release water to evaporation

☑ 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 200 can be used outdoors and indoors,

☑ stable to repeated freeze-thaw cycles.

☑ easy, quick and easy to install, requiring 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 200 board provides previously unknown acoustic absorption parameters while maintaining comparable thermal parameters. The insulating board thus presents a set of properties new possibilities of use in individual building (partitions, acoustic panels, noise barriers).

☑ in buildings to achieve standardized parameters of noise and energy saving (lining, partition)



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☑ in the infrastructure as an acoustic absorber for noise barriers, does not require special protection against moisture and frost, surface protection is recommended for protection against UV radiation exterior acrylic paint (F)

The board STERED ID 200 has its absorbency properties, low diffusion resistance, dimensional stability in dry and frozen state wide application in compositions for open water retention and water vapor retention areas especially

☑ as a retention, drainage layer and vegetation area in the composition of light extensive vegetation roofs and other retention areas, the board can also fulfill the function of rooting vegetation

• PROPERTIES

Technical parameter	Unit	Value
Thickness	mm	50 ±5 80 ±5
Format	mm	1200 ±5 x 600 ±5
Board area	m ²	0,72
Board weight	kg	7,2
Material density	kg/m ³	200 ± 10%
Number of pieces per pallet	ks / m ² / kg	48 / 34,56 / 326-395 brutto
Compressive stress at 10% compression	kPa	min. 15 kPa
Tensile strength perpendicular to the plane of the board	kPa	min. 20 kPa
Short-term water absorption at partial immersion Wlp process A	kg/m ²	max. 20,0
Long-term absorption at partial immersion Wlp - process A	kg/m ²	max. 25,0
Compressibility	mm	max. 5
Water vapor permeability μ	-	max. 4

• PACKING

Stered ID 200 boards are packed on a pallet of 1200x1200x1400 mm bound by PE tape with the manufacturer's designation of the basic technical characteristics of the product stated on the label.

• APPLICATION

The Stered ID 200 board is applied in constructions according to the stated fields of application. The board can be glued to the backing layer, or to each other with a polyurethane-based binder or building tile adhesive, in case of higher stress the board can be mechanically anchored to the backing. The slab can also be advantageously bonded to the concrete substrate as lost formwork.

The face layer can also be created directly on the Stered ID 200 board with colored acrylic paint. We recommend that you consult the manufacturer for any special procedures.

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