

1. Product characteristics

GELTEC is elastomeric pad made from a mixture of SBR granulated Rubber and polyurethane binder.

Use:

- universal damping, anti noise and anti vibration pads
- elastomeric mats, under-gravel mats
- Underlay, expanding, diving and anti slip mats
- tiles for sport systems
- insulation of buildings, roadways, pillars and beams, storage of industrial machines
- panelling for shooting ranges
- its characteristics distinctly increase the durability of building constructions against heavy loads and shaking

2. Technical parameters

Standard unformatted size 2 000 x 1000 mm. Products can be made in dimensions 1 000 x 1 000 mm and 1 000 x 500 mm.

Basic variants GELTEC S850

Code	Name	Weight (kg)
HD4-03-0300-00-850	GELTEC S850 2 000 x 1 000 x 3	5,1
HD4-05-0300-00-850	GELTEC S850 2 000 x 1 000 x 5	8,5
HD4-06-0300-00-850	GELTEC S850 2 000 x 1 000 x 6	10,2
HD4-08-0300-00-850	GELTEC S850 2 000 x 1 000 x 8	13,6
HD4-10-0300-00-850	GELTEC S850 2 000 x 1 000 x 10	17,0
HD4-12,5-0300-00-850	GELTEC S850 2 000 x 1 000 x 12,5	21,3
HD4-15-0300-00-850	GELTEC S850 2 000 x 1 000 x 15	25,5
HD4-20-0300-00-850	GELTEC S850 2 000 x 1 000 x 20	34,0
HD4-25-0300-00-850	GELTEC S850 2 000 x 1 000 x 25	42,5
HD4-30-0300-00-850	GELTEC S850 2 000 x 1 000 x 30	51,0
HD4-40-0300-00-850	GELTEC S850 2 000 x 1 000 x 40	68,0
HD4-50-0300-00-850	GELTEC S850 2 000 x 1 000 x 50	85,0
HD4-60-0300-00-850	GELTEC S850 2 000 x 1 000 x 60	102,0

Technical parametres

Parameter	Value
Bulk Density	850 kg/m ³
Tensile strength ČSN EN ISO 37	0,9 (± 0,2) MPa
Elongation ČSN EN ISO 37	61 (± 8) %
Tensile strength after storage oil	0,2 Mpa
Change in tensile strength after storage in oil	- 78 %
Elongation after storage in oil	30 %
Change in elongation after storage in oil	- 51 %
Water absorption	14 %
Static moduls of deformation	18,4 MPa
Static surface stiffness	0,22 N.mm ⁻³
Dynamic surface stiffness for a load frequency of 1 Hz	0,247N.mm ⁻³
Dynamic surface stifness for a load frequency of 3 Hz	0,266 N.mm ⁻³
Dynamic surface stifness for a load frequency of 5 Hz	0,276 N.mm ⁻³
Dynamic surface stifness for a load frequency of 10 Hz	0,292 N.mm ⁻³
Dynamic surface stifness for a load frequency of 20 Hz	0,295 N.mm ⁻³
Dynamic surface stifness for a load frequency of 30 Hz	0,297 N.mm ⁻³
Dynamic stiffness increase for a load frequency of 1 Hz	0,89
Dynamic stiffness increase for a load frequency of 3 Hz	0,83
Dynamic stiffness increase for a load frequency of 5 Hz	0,80
Dynamic stiffness increase for a load frequency of 10 Hz	0,75
Dynamic stiffness increase for a load frequency of 20 Hz	0,75
Dynamic stiffness increase for a load frequency of 30 Hz	0,74
Static modulus of elasticity E-stat	5,5 MPa
Dynamic modulus of elasticity E-dyn (for 10Hz frequency)	7,3 Mpa
Resistance to cyclic freezing and thawing	1
Long-term temperature stability	From 30 °C To 80 °C
Length tolerance (0 – 300 mm)	± 3 mm
Length tolerance (300 mm and more)	± 1 %
Density tolerance	± 40 kg/m ³
Density toleranca for surface area ≤ 0,25m ²	± 60 kg/m ³
Thickness tolerance (3 – 4 mm)	± 0,6 mm
Thickness tolerance (4,1 – 6 mm)	± 0,5 mm
Thickness tolerance (6,1 – 10 mm)	± 0,6 mm
Thickness tolerance (10,1 – 25 mm)	± 0,8 mm

Thickness tolerance (25,1 – 40 mm)	± 1,0 mm
Thickness tolerance (40,1 – 60 mm)	± 1,5 mm
Reaction to fire according to ČSN EN 13501-1 + A1	E _{fl}
Compressive stress at 10% strain	0,17 MPa
Compressive stress at 20% strain	0,52 MPa
Shore hardness	48 °Sh

The uniform color of GELTEC boards is not guaranteed, but it does not affect the technical parameters.

3. Packaging and storage

The pads are stored on wooden pallets, wrapped in a non-transparent stretchy film. The amount on each pallet depends on the thickness of each pad, maximum weight on a pallet is 1 500 kg. The pads can be stored at temperatures between -20 and +40 °C, it is necessary to protect them from the rain and snow during storage.

4. Guarantee

The warranty for GELTEC S850 products is 24 months.

5. Validity of the document

The information given is valid at the time of issue of the technical data sheet and is based on objective testing and the manufacturer's own experience.

The manufacturer reserves the right to change these data.

Changes may be agreed with the customer in an additional contract or other agreed document.

In Uherský Brod 29/9/2025

Ing. Jaroslav Gajdůšek
Head of Technical Department