

Self-adhesive bitumen felt board for absorbing structure-borne sound

PROPERTIES

- Efficient and weight-saving sound-deadening of thin-walled sheet metal
- Excellent adhesion on stainless steel, sheet steel and plastics
- Provides additional reinforcement

POSSIBLE USES

TEROSON BT 2001/2002 are bitumen-impregnated wool-felt boards which have been equipped on their upper side with an additional sound-dampening layer (embossed with a diamond pattern) to enhance the absorption of structure-borne sound. The self-adhesive underside is covered with a release paper to protect the adhesive layer.

Typical examples of application:

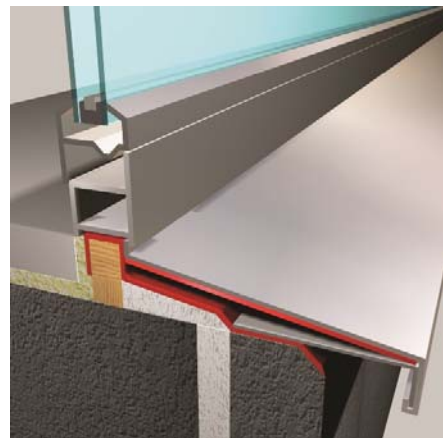
Building sector Garage doors, facade elements, windowsills, bathtubs, shower basins and sinks, radiator covers, garbage chutes, ventilation and air-conditioning systems, elevator cabins

Mechanical engineering Film projectors, dishwashers, washing machines, typewriters, interior lining of photocopiers, EDP equipment, machine tools, spinning machines, conveyor systems

APPLICATION

The sound-dampening boards can be cut to size either manually or by means of guillotine shears. After cutting or punching out the required size, peel off the release paper and press the cuttings firmly and uniformly down to the substrate, either by hand or with a hard rubber roller, in order to avoid trapping air.

Substrates must be clean, dry and free of grease or other substances likely to impair adhesion. It is recommended to install the boards only at temperatures above +18 °C or to slightly preheat the boards before installation.



If necessary, protect the metal surfaces adequately against corrosion.

We recommend carrying out your own adhesion tests. After installation, it is always possible to cover the sound-dampening boards with a paint coat.

TECHNICAL DATA

TEROSON BT 2001 / 2002

Total system

Board size:	1000 x 500 mm
Thickness:	1.4 ± 0.2 mm / 2.3 ± 0.2 mm
Total weight:	approx. 1.4 kg/m ² / approx. 2.0 kg/m ²
Color:	grey
Breaking strength (DIN 53112):	≥ 70 N/20 mm / ≥ 150 N/20 mm

Thermal resistance:

Long-term exposure (336 hrs),

Test method: B-031 X max. +80 °C

Short-term exposure (1 hour),

Test method: B-030 D max. +150 °C

Low-temperature resistance:

Test method: B-014 X -30 °C (no spalling)

Adhesion to non-corrosive

sheet steel (test method -H-002A) ≥ 6.5 N/cm

Adhesive

Material base: acrylate copolymer

Acoustic data

Loss factor

+20 °C, 200 Hz, 1 mm steel: ≥ 0.09 / ≥ 0.15

Resistance to liquids

(DIN 53521 – one-sided exposure – 4 hrs at room temperature)

Increase in weight per dm² (guide values)

Water: approx. 2.0 g / approx. 3.0 g
Surface not visibly attacked.

Premium-grade fuel:
(Euro norm) approx. 3.5 g / approx. 3.0 g
Bitumen components leached out.
Surface noticeably attacked.

Engine oil HD:
(15 W - 40) approx. 1.0 g / approx. 0.5 g
Surface not visibly attacked.

Diesel fuel: approx. 2.0 g / approx. 2.5 g
Bitumen components partly dissolved.
Surface slightly attacked.

Sound-dampening layer

Material base: acrylate copolymer

Weight: approx. 0.34 kg/m²

Bitumen board

Material base: bitumen-impregnated wool-felt board

Weight: approx. 1.0 kg/m² / approx. 1.55 kg/m²

DISPOSAL

The outer cartons of TEROSON BT 2001/2002 are disposed of at a collection point for wastepaper or at a municipal waste collection point for recycling. Insulation boards must be disposed of as industrial waste or construction site waste.

European Waste Code (EWC): 080410

STORAGE / SHELF LIFE

Danger of frost damage:

no

Storage temperature:

+10 °C to +25 °C

Shelf life:

approx. 36 months

PACKAGING

TEROSON BT 2001

Board dimensions:

1000 x 500 mm

Packaging unit:

carton with 50 boards

TEROSON BT 2002

Board dimensions:

1000 x 500 mm

Packaging unit:

carton with 40 boards

Apart from the information given in this Technical Data Sheet it is also important to observe the relevant guidelines and regulations of various organizations and trade associations as well as the applicable national standards. All data given were obtained at an ambient and material temperature of +23 °C and 50 % relative humidity unless specified otherwise. Please note that in other climatic conditions hardening may be accelerated or delayed and take the resulting consequences into account.

The above information, in particular proposals for the handling, application and use of our products, is based on our knowledge and experience. As materials and conditions may vary with each intended application and thus are beyond our influence, we strongly recommend that in each case the user conducts sufficient tests to ensure our products are suitable for the intended application method and use. Legal liability cannot be accepted, either based on the content of this data sheet or any verbal advice given, unless there is evidence of carelessness or gross negligence on the manufacturer's part.

This Technical Data Sheet supersedes all previous issues. Please refer to our Safety Data Sheet for hazard warnings, safety advice and information on transport labelling.

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