

dekoFireSafe® Protection Board

Product description

dekoFireSafe® Protection Boards offer an excellent solution for high-performance wall panels; they combine easy installation and impact resistance with a wide range of design options that can be perfectly combined with other Dekodur® laminates.

Unlike conventional laminate, which contains a paper core, dekoFireSafe® Protection Boards have a treated glass fiber core for added durability, strength and fire resistance. The patented dekoFire-Safe® Protection Boards are classified as non-combustible according to building material class A2 s1 d0.

dekoFireSafe® Protection Boards are intended for commercial applications and can be used for the following applications, provided the installation instructions are followed exactly:

- walls/partition walls/wall cladding
- splash protection
- doors, cabinet fronts, counter fronts,
- counters or table tops, etc.

Safety

Comprehensive safety information can be found in the safety data sheet for dekoFireSafe® Protection Boards.

The installation of dekoFireSafe® Protection Boards should be carried out by qualified professionals in compliance with all building, safety and fire protection regulations. dekoFireSafe® Protection Boards contain glass fibers that can cause temporary skin irritation (itching), irritation of the eyes or respiratory tract during processing, such as cutting or drilling and in contact with other substances. Personal protective equipment is therefore essential.

Inspection

Upon receipt, all materials must be checked to ensure that all boards and linings are free from damage and/or visible defects. For decor surfaces, front and back are designed identically, so the other side can be used if one side has visible defects; boards with visible defects on both sides should not be used. For metal surfaces only the A side is the visible face; the B side, a metal balancing layer, is bonded.

Properties:

-  Lightfast
-  Chemical-resistant
-  Food-safe
-  Cleaning-resistant
-  Non-flammable
-  Impact-resistant
-  Abrasion resistant
-  Graffiti resistant

Storage

dekoFireSafe® Protection Boards should be stored on a flat, dry surface (never directly on the floor or on concrete). The optimum conditions for acclimatization and storage are a temperature of 20 °C to 22 °C and a humidity of 50 % to 65 %.

Storage
20 °C to 22 °C



Acclimatization

dekoFireSafe® Protection Boards must be acclimatized for at least 48 hours before installation. To do this, first remove the packaging material and then store the boards in the (indoor) area in which they are to be installed. Observe the optimum temperature and humidity.

Acclimatization
before installation

Installation

dekoFireSafe® Protection Boards can be installed on the following surfaces:

- Painted drywall and plasterboard
- Unpainted drywall and plasterboard
- Bricks and concrete blocks above ground
- Concrete poured above ground
- Inorganically reinforced cement board, also known as IRCB
- Non-porous material such as tiles or metal

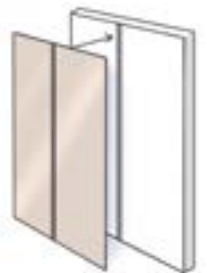
Note: Installation is only permitted if the application methods recommended in this document are followed.

Preparation and installation requirements

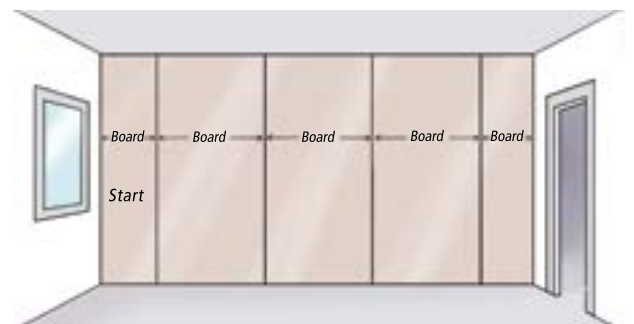
Surfaces on which dekoFireSafe® Protection Boards are to be installed must be dry, smooth and free of any residue or contamination that could prevent proper adhesion. Glossy surfaces coated with epoxy resin must be roughened with 100 grit sandpaper (or a perforating tool for wallpaper surfaces) and then completely cleaned. Ensure that the drywall is installed and finished to industry standards.

- Water, cleaning agents and cloths are recommended for cleaning (follow the adhesive manufacturer's recommendations)
- Surfaces treated with paint must be roughened and then completely cleaned.
- All areas with drywall seams and corners must be sealed or primed before attaching the boards
- Please note that the joints of dekoFireSafe® Protection Boards are not positioned directly above the substrate joints.

Never joint dekoFireSafe® Protection Boards directly over the substrate, but position them offset!



The aim of the installation should always be a uniform appearance based on the centerline measurement.



Properties

Dimensions

- Sheet width: 1220 mm
- Sheet length: 2440 mm or 3050 mm

Thickness: :

- Class H1: from 1,80 mm to 2,20 mm

Weight:

- Approx. 2.90 to 3.61 kg per square meter
- The weight may vary slightly depending on the decor selected.

Order a sample

To order samples, please call our customer service or send us an e-mail to info@dekodur.de.

dekoFireSafe® Protection Boards are available in all colors and metals of the Dekodur® brand and are perfectly matched to the laminate products of the Dekodur® brand. Dekodur® high pressure laminate samples should be used for the selection of colors for dekoFireSafe® Protection Boards.

Please note: The type of use should be taken into account when selecting the color, structure and reflective values of the dekoFireSafe® Protection Board.

Surfaces

dekoFireSafe® Protection Boards are scratch and impact resistant in regular use and under normal cleaning conditions.

- Sharp or abrasive objects and unglazed ceramic materials can cause scratches or premature wear on the surface.
- Abrasive sponges, scouring powders or cleaning agents can scratch the decorative surface and cause damage. become permanently dull.
- Hot objects such as irons, hot appliances, cigarettes, etc. should not be placed directly on the surface of the boards can be filed.
- When used horizontally, please note that prolonged exposure to temperatures of 70°C or more can damage the surface. When using hot cookware, heat-generating appliances or other heated objects, for example, insulating surfaces must be used
- The surfaces are heat-resistant for a short time up to a temperature of 135°C.

Cleaning

dekoFireSafe® Protection Boards are easy to clean

- In most cases, it is sufficient to use a clean, damp, non-abrasive cotton cloth and a mild liquid detergent or household cleaner.
- For damp cleaning, use clear water and a clean, soft, non-abrasive cotton cloth. ■ Trocknen Sie die Oberfläche mit einem weichen, sauberen, nicht scheuernden Baumwolltuch.
- Dry the surface with a soft, clean, non-abrasive cotton cloth.
- Isopropyl alcohol or ammonium chloride cleaners such as PDI wipes can be used for cleaning. Note: Never use cleaning agents that contain acid, alkali or sodium hypochlorite. These cleaners can damage, etch, corrode and permanently discolor the decorative surface.
- dekoFireSafe® Protection Boards must not be cleaned with cleaners with a high pH value, as there is then a risk that the coloration will become cloudy.

Guarantee

Dekodur expressly warrants that this product will be free from defects in material and workmanship for a period of five years from the date of first sale (voluntary manufacturer's warranty) and that it will conform to the applicable manufacturing specifications when properly stored, handled, processed and installed within accepted tolerances. Colors are subject to variations in the respective color lots. Due to the variety of uses and applications for which dekoFireSafe® Protection Boards can be used, Dekodur makes no warranty that this product is suitable for any particular purpose and makes no warranties, express or implied, other than those set forth above.

Technical service

Technical support is available from your local Dekodur® dealer or from trained Dekodur representatives, who are supported by a qualified sales and technical team if required. If you require technical support, please contact your sales partner or sales representative or contact us directly at info@dekodur.de

Physical properties (according to DIN 438)

Feature	Test method	Unit	Value
Grammage	EN 438-2:2016, para. 5	kg/m ²	3,61
Thickness	EN 438-2:2016, para. 5	mm	1,80 - 2,20
Length tolerance	EN 438-2:2016, para. 6	mm	+10/-0
Width tolerance	EN 438-2:2016, para. 6	mm	+10/-0
Straightness of the edges	EN 438-2:2016, para. 7	mm/m	≤1,5
Perpendicularity	EN 438-2:2016, para. 8	mm/m	≤1,5
Flatness	EN 438-2:2016, para. 9	mm/m	≤8,0
Dimensional stability at elevated temperatures	EN 438-2:2016, para. 17	% lengthwise % transverse	≤0,55 ≤1,05
Resistance to water vapor	EN 438-2:2016, para. 14	Level (min.)	4
Resistance to dry heat (160 °C)	EN 438-2:2016, para. 16	Level (min.)	4
Resistance to cigarette burns	EN 438-2:2016, para. 30	Level (min.)	3
Light resistance	EN 438-2:2016, para. 27	Grey level	4to 5
Scratch resistance	EN 438-2:2016, para. 25	Level (mind.)	3
Stain resistance group 1 & 2	EN 438-2:2016, para. 26	Level (min.)	5
Stain resistance group 3	EN 438-2:2016, para. 26	Level (min.)	4
Resistance to cooking water vapor	EN 438-2:2016, para. 24	Level (min.)	4
Impact resistance (large diameter ball)	EN 438-2:2016, para. 21	mm	≥1350
Abrasion resistance	EN 438-2:2016, Para. 10	U	≥700

Additional features

- Bending strength
 - Longitudinal direction: 110 MPa
 - Transverse direction: 90 MPa

- E-Modul:
 - Longitudinal direction: 10.000 MPa
 - Transverse direction: 9.000 MPa

- Water absorption: 1,78%
- Thermal expansion: $2,0 \times 10^{-5}/^{\circ}\text{C}$
- Barcol hardness: 72

HENSOMASTIK® K 2000 Adhesive

Product description

HENSOMASTIK® K 2000 is a flexible, heat-resistant special adhesive for bonding from dekoFireSafe® Protection Boards.

Main features

- Fire protection class: A2 s1 d0 (non-combustible)
- Heat resistance: up to 750 °C
- Color: Colorless
- Consistency: Sprayable or viscous

Technical data

- Building material class: A2 - s1, d0 at 400 g/m² (DIN EN 13501-1)
- Processing time: 15 minutes (at 20 °C, 65 % relative humidity) Drying time
- Drying time: approx. 24 hours (at 20 °C, 60 % relative humidity)

Processing

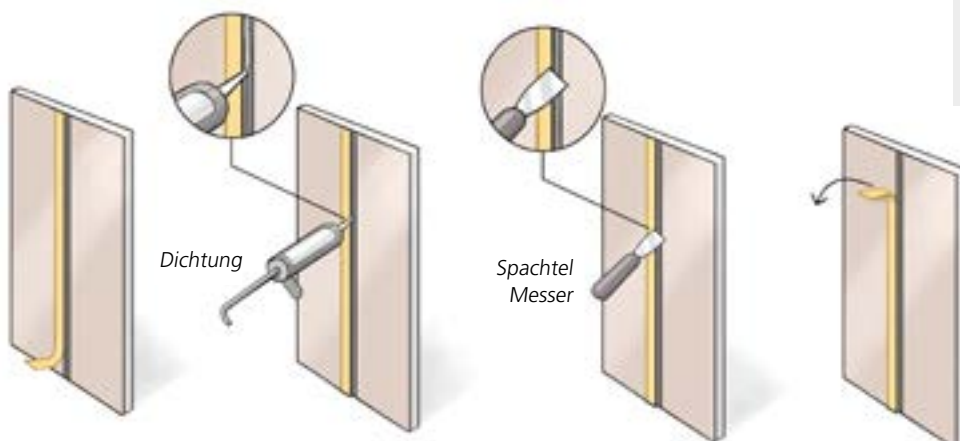
- Application quantity: 150 g/m²
- Application temperature: > +5 °C
- Material temperature: min. 3 °C above dew point, above 0 °C

Installation instructions

1. Prepare the substrate: Surface must be clean, dry and free from contamination
2. Stir the adhesive: Mix HENSOMASTIK® K 2000 well before use.
3. Apply adhesive: 150 g/m² evenly to the back of the dekoFireSafe® board or onto the wall surface
4. Apply the board: Apply the dekoFireSafe® board to the prepared surface and press down firmly
5. Allow to harden: Allow to dry for at least 24 hours at room temperature.

Tips for sealing

- When using sealant, a gap of 1/8" (or 3.175 mm) is required for the expansion joints on the top, bottom and edges of the board.
- Choose a silicone sealant that matches the color of the boards.
- Mask the joint edge between the panels with masking tape.
- Apply a bead of sealant of approx. 3.175 mm (1/8") in the gap; the joint must be completely filled.
- Remove excess grout immediately. The joint compound should be flush with the panel.
- Remove the masking tape and immediately remove any sealing residue from the surface of the panel.



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