

deko FireSafe Protection-Board

Technical Installation Manual and Accessories Overview

1. Product Overview

deko FireSafe Protection-Board is a patented, non-combustible wall panel with outstanding properties for interior applications.

Product Properties

- Fire resistant: Building material class A2-s1, d0 (non-combustible according to DIN EN 13501-1)
- Chemical resistant
- Suitable for use in food areas
- Impact and abrasion resistant
- Graffiti resistant
- Versatile in use

Technical Specifications

Parameter	Value
Panel size	2440 × 1220 mm
	3050 × 1220 mm
Thickness	Approx. 1.8–2.1 mm
Area of application	Interior use

2. Adhesive: HENSOMASTIK® K 2000

Product Description

HENSOMASTIK® K 2000 is a flexible, heat-resistant special adhesive specifically developed for bonding deko fireSafe® Protection Boards.

Key Properties

- Fire classification: A2-s1, d0 (non-combustible)
- Heat resistance: up to 750 °C
- Colour: according to decor selection

Technical Data

Parameter	Value
Building material class	A2-s1, d0 at 400 g/m ² (DIN EN 13501-1)
Pot life	15 minutes (at 20 °C, 65% relative humidity)
Drying time	Approx. 24 hours (at 20 °C, 60% relative humidity)
Application rate	400 g/m ²
Processing temperature	> +5 °C
Material temperature	Min. 3 °C above dew point, above 0 °C

3. Profile System and Accessories

The deko fireSafe Protection-Board profile system offers professional solutions for various connection details and ensures a durable, visually high-quality installation.

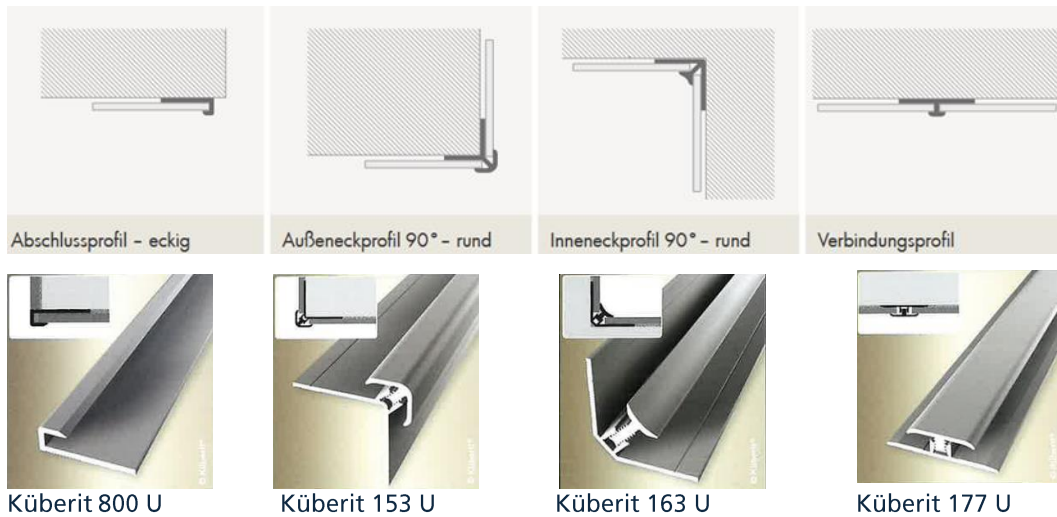
Available Profile Elements

- **External corner:** Protects and covers exposed external edges
- **Internal corner:** Clean transition at internal corners
- **End / connection profile:** Termination to walls, ceilings and floors
- **Joint / connection profile:** Elegant butt joint between panels

Function and Field of Application

The profiles enable professional installation with clean transitions and increase the mechanical stability of the system, especially in high-traffic areas such as hospitals, schools, public buildings and industrial facilities.

End connection profile External corner profile Internal Corner Profile Joint connection profile



4. Installation and Mounting Instructions

4.1 Substrate Preparation

Before installation, the wall area to be protected must be carefully checked and prepared:

1. **Surface inspection:** The surface must be solid, clean, dry, level and free from contamination.
2. **Rendered surfaces and plasterboard:** Prime with suitable penetrating primer.
3. **Existing paints and wallcoverings:** Check for adequate adhesion. Obtain statements from the manufacturers of the paints/wallcoverings and confirmation from the painting contractor.
4. **Bonding preference:** Direct bonding to render, plasterboard or concrete is preferred.
5. **Test bonding:** A test bonding with pull-off test is mandatory. This shows whether paints/wallcoverings must be removed.

4.2 Installation Conditions

- **Acclimatisation:** Store the boards unpacked on site for at least 48 h at 20–22 °C and 50–65 % relative humidity
- **Room temperature:** Installation only at 10–35 °C
- **Area of application:** Material is intended exclusively for interior use
- **Adhesive:** Use only Dekodur-approved or equivalent adhesives

4.3 Step-by-Step Installation Guide

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

4.4 Important Installation Notes

- **Edge and joint areas:** Pay particular attention to a strong bond at edges and joints
- **Support for tall elements:** For wall elements higher than 50 cm, additional support is recommended (e.g. adjustable cabinet feet) to secure temporary fixing

- **Movement joints:** For single wall lengths from 10 m, provide a movement joint of approx. 10 mm; for external walls in basement/lower ground floor areas already from 7 m
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5. Sealing and Joint Treatment

Tips for Sealing

1. **Movement joints:** When using sealant, provide a gap of 3.175 mm (1/8") for movement joints at the top and bottom edges and along panel edges.
 2. **Sealant selection:** Choose a silicone sealant colour-matched to the boards.
 3. **Masking:** Mask the joint edges between the panels with painter's tape.
 4. **Application:** Apply a bead of sealant of approx. 3.175 mm into the gap; the joint must be completely filled.
 5. **Remove excess:** Remove excess sealant immediately. The sealant should be flush with the panel surface.
 6. **Cleaning:** Remove the tape and immediately clean off any sealant residues from the panel surface.
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6. Installation of End Profiles, Internal and External Corners

Installation of External Corners

1. For wall sections with external corners, start installation at the external corner.
2. First fix the corner element to the substrate with adhesive, but do not permanently screw it yet.
3. Adjust the adjoining panels with a gap of 2–3 mm to the external corner.
4. Bond the panels firmly.
5. Seal the connection joints later with silicone.

Profile Transitions

- At external corners, the end profiles butt against the corner element and end flush with the finished floor level.
- Exception: This rule does not apply where an additional metal angle is bonded to the external corner.

- All wall connections of the bumper rail and wall cladding can be sealed with permanently elastic sealant.
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7. Installation Aids and Tools

Recommended Tools

For uneven substrates or connections to solid building components (e.g. door frames), the following tools have proven useful:

- **Telescopic props:** Especially at panel joints and level changes, e.g. in refurbishment projects
- **Clamps:** In the area of door frames
- **Hole punches:** For adapting upper and lower connections, especially in plasterboard walls
- **Reinforced fabric tape:** Strongly adhesive, for temporary fixing
- **Tile wedges:** For adjustment at joints, and for bonding/connecting corner elements and end profiles

Cut-outs and Adjustments

For circular cut-outs (e.g. electrical boxes), **multi-cut hole saws** are recommended.

8. Contact and Technical Support

For further questions regarding processing, installation or product-specific requirements, please contact:

Dekodur GmbH
Technical Support

We are happy to assist you with planning and implementing your project.

Installation Videos

Please also refer to our installation videos:

- English: <https://www.youtube.com/watch?v=FIHKstdO2ZU>
- German: https://www.youtube.com/watch?v=ooSU7Z_avjc