

## Soudaband PRO BG1

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### Technical data

Material		Impregnated open cell polyurethane foam
Application temperature		-5 °C → 40 °C
Temperature resistance	DIN 18542	-30 °C → 90 °C
Fire reaction class	DIN 4102	B1 (difficult inflammable))
Classification according to	DIN 18542	BG1
Air permeability coefficient (in joint)	EN 12114	$a \leq 1,0 \text{ m}^3/(\text{h.m.}(\text{daPa})\text{n})$
Impermeability to driving rain (in a joint)	EN 1027	$\geq 600 \text{ Pa}$
UV light and weather stability	DIN 18542	Requirements fulfilled
Compatibility with adjacent building materials	DIN 18542	requirements fulfilled
Dimension tolerance	DIN 7715 T5 P3	Requirements fulfilled
Thermal conductivity ( $\lambda$ )	EN 12667	0,043 W/m.K
Water vapor permeability (Sd)	EN ISO 12572	$\leq 0.5 \text{ m}$ at 50 mm width (= vapor permeable)
Water vapor diffusion resistance factor ( $\mu$ )	EN ISO 12572	$\leq 100$

\* These values may vary depending on environmental factors such as temperature, moisture, and type of substrates. \*\* This information relates to fully cured product.

### Product description

Soudaband PRO BG1 is an impregnated, pre-compressed joint sealing tape which meets the BG1 standard. The product is suitable for use in a wide variety of movement joints and (window) connection joints in buildings up to 100 m high. Soudaband PRO BG1 is driving rain tight up to 600 Pa, vapor permeable, UV-resistant and has excellent thermal and acoustic properties. Soudaband PRO BG1 can be installed directly exposed to the weather, requires no installation into check reveal (rebate) or needs no further finishing.

### Properties

- Vapor permeable
- Driving rain tight
- Windproof
- Acoustic and thermally insulating
- Adapts itself to unevenness and joint movements.
- UV-resistant
- Dustproof
- Complies with the requirements according to DIN 4108 (EnEv) and the recommendations of the RAL installation guide.

- Easy to apply
- No need for pretreatment or finishing
- Self-adhesive backing (= installation aid)
- Non-staining at joint edges
- Neutral and odorless
- Stays elastic and repaintable
- 10 years functional warranty (according to the conditions of the manufacturer, available on request)

### Applications

- Permanently elastic sealing of connection and expansion joints in masonry, prefab elements, concrete, sandwich panels, roof constructions, etc.
- Sealing of (connection) joints around windows and doors
- Sealing between metal components.
- Acoustic insulation of joints.

Remark: This technical data sheet replaces all previous versions. The directives contained in this documentation are the result of our experiments and of our experience and have been submitted in good faith. Because of the diversity of the materials and substrates and the great number of possible applications which are out of our control, we cannot accept any responsibility for the results obtained. Since the design, the quality of the substrate and processing conditions are beyond our control, no liability under this publication is accepted. In every case it is recommended to carry out preliminary experiments. Soudal reserves the right to modify products without prior notice.

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### Packaging

*Colour:* anthracite, grey

*Packaging:* Rolls (pre-compressed to approx. 20% of the expanded original thickness), Various sizes available. Please consult the product catalogue, the Soudal website or a Soudal representative.

### Shelf life

At least 24 months in original, unopened packaging at a cool and dry storage place, between +1°C and +20°C.

### Substrates

*Substrates:* all usual building substrates

*Nature:* Clean and free of grease. Slightly moist or slightly dusty substrates are no problem. The joint sides must be parallel (max. 3 degrees deviation).

### Joint dimensions

Example: Soudaband PRO BG1 20/4-9

20 = width of the tape (mm) = depth of the joint  
4-9 = application range for BG1, thickness of the tape = width of the joint

The width of the joint must fall within the application range of the joint sealing tape over the entire length of the joint.

Maximum joint width: must be determined at the lowest possible temperature.

Minimum joint width: is the pre-compressed thickness of the tape.

The joint sealing tape may not expand more in its application than it is wide to avoid tipping over.

### Application method

- For application only a spatula, a meter, scissors or a knife and where necessary wooden wedges are required.
- Do not use the first and last part of the roll (approx. 3 cm).
- When measuring the length/cutting of the tape add approx. 1 cm/m.
- Do not stretch Soudaband PRO BG1 during installation.

- Start with vertical construction joints at the bottom. In case of cross construction joints, apply them first horizontally afterwards vertically.
- Measure the opening at door or window connections, not at the construction element. Use 4 separate pieces of joint sealing tape instead of 1 long piece. Attach the joint sealing tape to the construction element and finish the horizontal sides first, then the vertical sides.
- Connect the tape (at an extension or in the corners) closely to butt joints to form a tight, compressed connection.
- When working in damp or cold conditions Soudaband PRO BG1 can be fixed with wooden wedges until it is expanded.
- The tape should be stored at room temperature (<20°C), even on the construction site. For temperatures above 20°C, it is recommended to precool the tape. At low temperatures, it is recommended to preheat the tape.

\* Consult the Soudal website or a Soudal representative to receive a detailed installation guide.

### Health- and Safety Recommendations

Take the usual labour hygiene into account. Consult the label for more information.

### Remarks

- Clamp remaining rolls and weigh down opened boxes to prevent lateral expansion (telescoping) of the rolls.
- When installing Soudaband PRO BG1, higher temperatures will speed up tape expansion while lower temperatures will delay tape expansion.
- Soudaband PRO BG1 should not come into contact with solvents or aggressive chemicals. If in doubt, consult a Soudal representative.
- Soudaband PRO BG1 is paintable with waterbased paints, however due to the large number of paints and varnishes available we strongly suggest a compatibility test before application.

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- This product is elastic and therefore applied layers of paint can crack in joints that experience large movements (large difference in elasticity between sealant and paint).
- Soudaband PRO BG1 is compressed to approximately 20% of its original thickness and will therefore expand (its compression thickness) up to 5 times. It will meet its performance requirements to DIN 18542 within its designed application range only.

**Standards and certificates**

- Fire reaction classification B1 (DIN 4102-1) - PB 11-002078-PR01 (IFT Rosenheim)
- BG1 according to EN 18542 - PB 105 43167/2 R1 U (IFT Rosenheim)
- Classe 1 according to DTU 36.5 and DTU 33.1 - n° 1612-68080-000005 (Socotec France)
- MO-01/1 Bauteilprüfung (Systemtest: air and driving rain tightness of a sealing system between window and wall) - PB 12-000824-PR01 (IFT Rosenheim)
- ATG 2933 - Technical Approval (Belgium)
- KOMO certified - n° K21386/02 (the Netherlands)
- Soudaband PRO BG1 meets GEV EMICODE EC1 PLUS: very low emission.

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