



Hanno®-Triple-Layer Joint Sealing System

**HANNO products for window, door, façade,
ACM panel and roofing applications**



HANNO

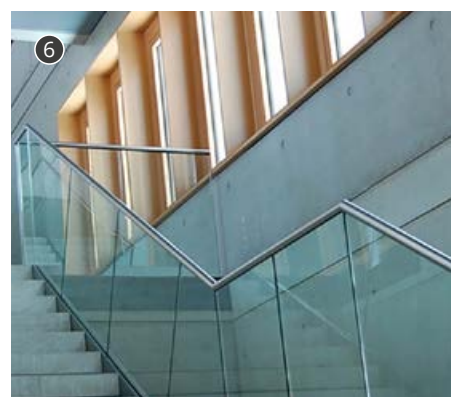
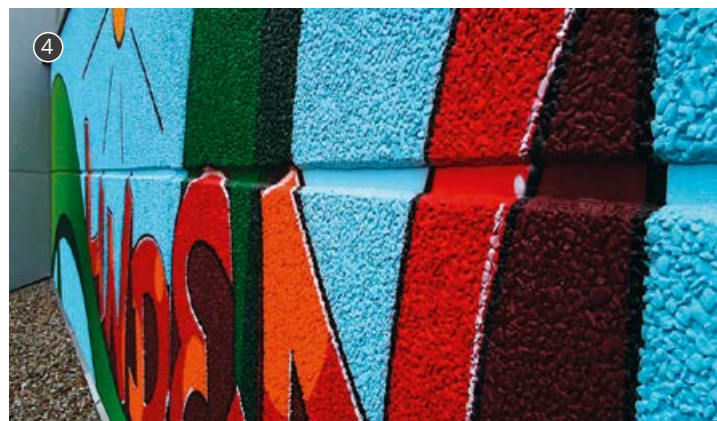
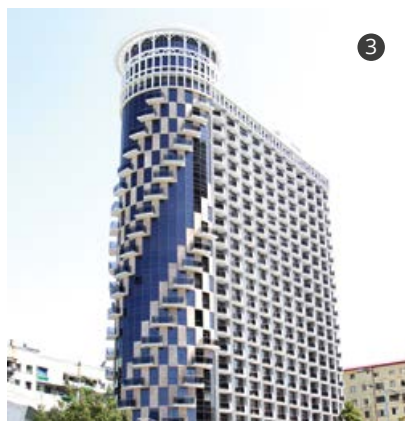
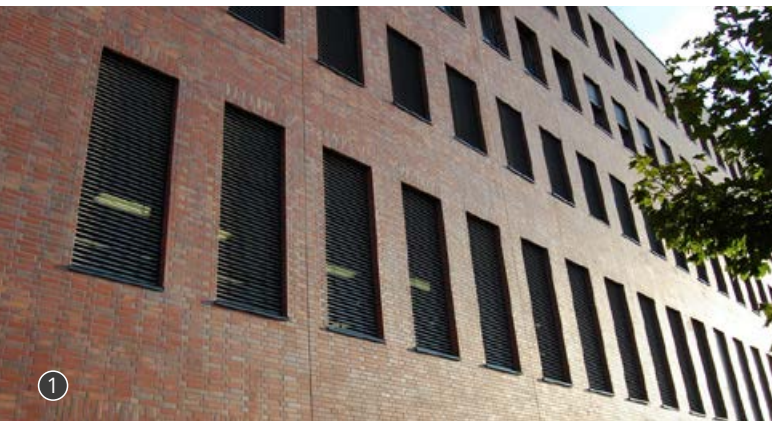
HANNO: High Quality – Hidden Talents



125 years of experience, state-of-the-art equipment as well as a highly trained and motivated team guarantee innovative and high quality products "made in Germany" for today's demanding construction world. HANNO offers a wide range of certified and proven product solutions to seal building construction joints – tested to the highest German, European and overseas standards – including the USA, Russia, France or the Netherlands.

HANNO products are suitable for window, door, façade, ACM panel and roof applications – Passive House compliant!

- ① **VW Nutzfahrzeuge**
Hanover, Germany
Joints sealed with Hannoband®-BG1 in brick construction.
Joint width up to 1 inch.
- ② **Skyscraper „Het Strijkijzer“**
The Hague, Netherlands
Joints exposed to direct weathering and exceeding >300' elevation sealed with Hannoband®-BG1.
- ③ **Sea Towers**
Batumi, Georgia
Window connection joints sealed with Hannoband® joint sealing tapes.
- ④ **Stadion Linden**
Hanover, Germany
Cross joints sealed with Hannoband®-BG1 in concrete construction.
Joint width up to 2 inches.
- ⑤ **Hahne's Building**
Newark, NJ – USA
Window joints sealed with Hannoband®-BG1.
- ⑥ **B. Braun Melsungen AG**
Melsungen, Germany
Weather protection layer and inner layer sealed with Hanno®-Flashing Tapes.



Advantages at a Glance

- Extremely durable performance (BG1 > 15 years)
- Driving rain & air tight (3E Basic, 3E Basic BG1, DUO Easy 240 / 180)
- Diffusion open, breathable (BG1) / water vapor flexible (multi-functional tapes, foil tapes)
- Excellent thermal and sound insulation
- BG1 rated products are resistant to UV rays and sun exposure
- Sustainable & safe – extremely low VOC's
- Absolutely clean, quick and easy installation during all seasons
- Very little waste
- Quality and performance has been proven for decades



Quick and easy installation during all seasons:



Hannoband® adjusts to uneven surfaces within each tape's specific tolerance range:



Hanno® Triple-Layer Joint Sealing System

The Hanno®-Triple-Layer Joint Sealing System ensures tested joint sealing of windows suitable for all kind of buildings including Passive Houses in order to reduce energy costs and provides long-term performance and reliability of the sealed joint. In addition, the product range comprises high-quality flashing tapes for windows with vapor pressure gradient, several complementary products such as sealing compounds, adhesives and polyurethane foams as well as special roller shade housing for air absorption and heat insulation.

1 Weather protection layer

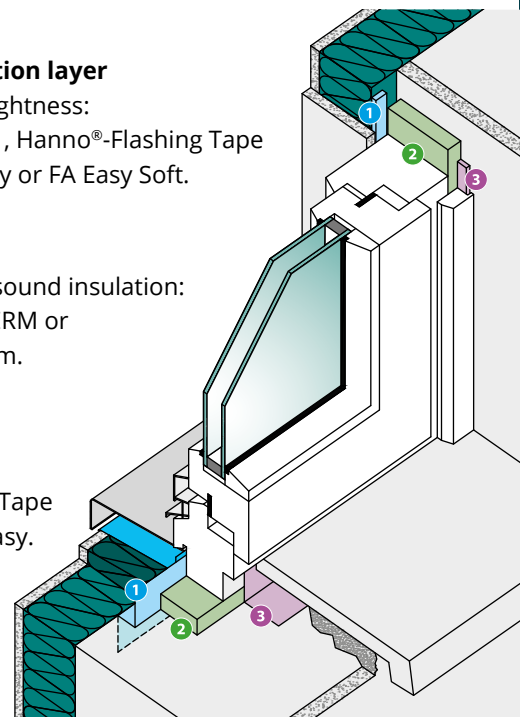
For driving rain tightness:
Hannoband®-BG1, Hanno®-Flashing Tape
DUO Easy, FA Easy or FA Easy Soft.

2 Function layer

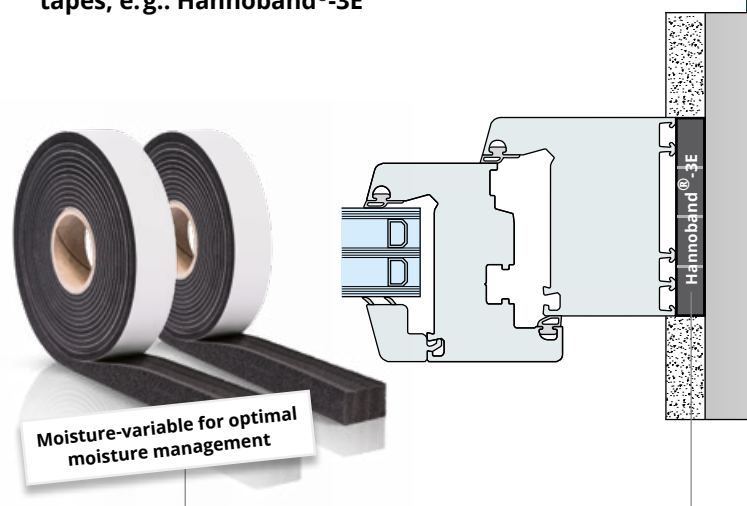
For thermal and sound insulation:
Hannoband®-THERM or
PU mounting foam.

3 Inner layer

For airtightness:
Hanno®-Flashing Tape
DUO Easy or FI Easy.



Alternatively use our all-in-one multi-functional tapes, e.g.: Hannoband®-3E



Multi-Functional Tapes

Hannoband®-3E Basic BG1 / 3E Basic

Tapes with Concealed Moisture-Adapting Membranes



Hannoband®-3E Basic BG1/3E Basic

Ideal for a quick, easy and durable sealing of windows and doors during any weather, HANNO's "all-in-one" multi-functional tapes are the optimum choice. Their integrated "moisture-adapting" membranes ensure that the joint can dry out all year. These highly innovative tapes provide an excellent thermal, sound, air and rain barrier. After their installation, the polyurethane soft foam expands in the joint and provides a durable joint sealing. Movements of building components – e. g. linked to temperature changes – are compensated even after many years.

Hannoband®-3E Basic BG1

- For window joints exposed to direct weathering
- Tested acc. to DIN 18542:2020 – MF1
- Flame retardent (building material class B1, DIN 4102-1)
- Driving rain tightness ≥ 900 (EN 1027)
- Joint permeability $a_n < 0.1 \text{ m}^3/(\text{h} \cdot \text{m} \cdot (\text{daPa})^{2/3})$
- Sound insulation index $R_{s,w}$ up to 59 dB
- UV resistant
- EMICODE EC1^{PLUS}

Hannoband®-3E Basic

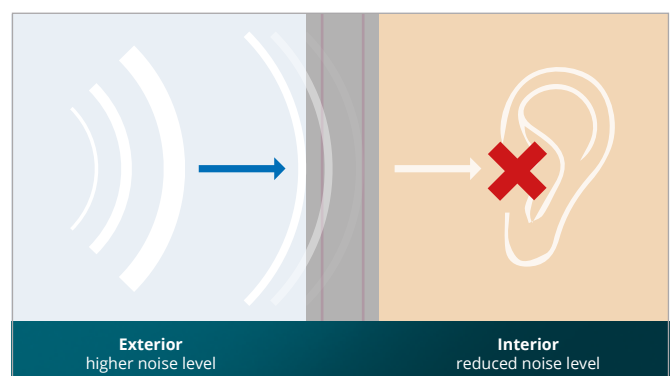
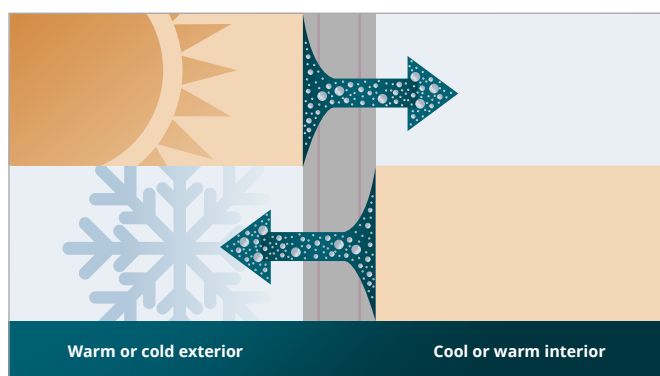
- For window joints not directly exposed to weathering
- Tested acc. to DIN 18542:2020 – MF2
- Normal flammability (building material class E, DIN EN 13501)
- Driving rain tightness ≥ 600 (EN 1027)
- Joint permeability $a_n < 0.1 \text{ m}^3/(\text{h} \cdot \text{m} \cdot (\text{daPa})^{2/3})$
- Sound insulation index $R_{s,w}$ up to 57 dB
- EMICODE EC1^{PLUS}



Multi-Functional Tape Hannoband®-3E Basic BG1

Technical data and installation videos

Moisture-Adaptive Principle



Flashing Tape

Hanno®-

DUO Easy 240 and DUO Easy 180



Hanno®-DUO Easy flashing tapes were designed primarily for curtain window elements often found in low energy constructions. Hanno®-DUO Easy+ has an additional adhesive strip on the opposite side and therefore replaces conventional flashing tapes for many applications. Hanno®-DUO Easy 240 and 180 are both moisture adaptive, which makes them suitable for exterior and interior applications. Their s_d -value ranges between 0.6 and 25 m. The high level of driving rain resistance of at least 1050 Pa protects the joint on the exterior. On the interior, DUO Easy provides an air-tight barrier of $a_n < 0.1$. Both variants offer a 12 months UV resistance and can also be installed during the cold season at temperatures as low as -10 °C^{**} .

- For interior and exterior applications providing an optimal vapor/moisture management
- Moisture adapting s_d value provides optimum moisture management in the joint:
 s_d value $0.6 \leq s_d \leq 25\text{ m}$
- Driving rain tight (min. 1050 Pa) and air tight ($a_n < 0.1$)
- 240: Strong adhesive layer which usually does not require the use of a primer
- 180: Highly absorbing substrates may have to be treated with a suitable primer
- Processing temperature -10 °C to $+40\text{ °C}^{**}$
- Can be plastered/rendered over
- EMICODE EC1^{PLUS}

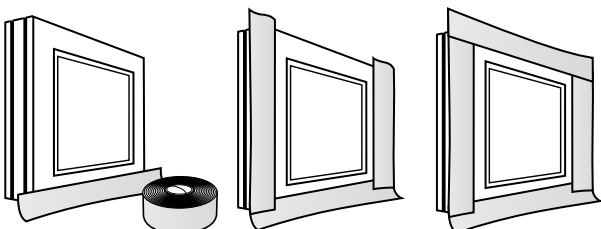


Flashing Tape Hanno®-DUO Easy
Technical data and installation videos

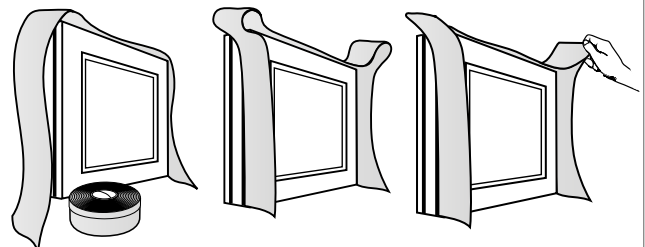
* Only Hanno®-DUO Easy 240

** Applies to the self-adhesive site. Make sure that no parting plane (e.g., moisture, ice, hoar frost, grease and dirt) is present on the gluing surface, which prevents the bonding of the adhesive to the surface.

Hanno®-DUO Easy 240 / 180



Hanno®-DUO Easy+ 240 / 180



Joint Sealing Tapes

Hannoband®

BG1 and BG2



Hannoband®-BG1

Extremely durable Hannoband®-BG1 clearly exceeds the requirements for protection against driving rain, airtightness and resistance to weathering according to the highest German standard for joint sealant tapes DIN 18542 (stress group 1) – tested for a field installation after 15 years in service!

Hannoband®-BG2

This universal joint sealing tape is driving rain tight and suitable to seal concealed window connection joints, providing a thermal seal between window frames and masonry, backfillings, profile coupling and roofing tile sealing.

Hannoband®-BG1

- For window/facade joints exposed to direct weathering
- Tested acc. to DIN 18542 – BG1
- Driving rain tightness ≥ 600 Pa
- Flame retardant (building material class B1, DIN 4102-1)
- Thermal conductivity $\lambda = 0.0412$ W/mK
- Sound insulation index $R_{s,w}$ up to 60 dB**
- Joint permeability $a_n < 1$ m³(h·m·(daPa)^{2/3})
- Europ. technical assessment: ETA 06/0083
- EMICODE EC1^{PLUS}

Hannoband®-BG2

- For window joints not directly exposed to weathering
- Tested acc. to DIN 18542 – BG2
- Driving rain tightness up to 600 Pa depend. on compression
- Normal flammability (building material class E, DIN EN 13501)
- Thermal conductivity $\lambda = 0.0396$ W/mK
- EMICODE EC1^{PLUS}



Joint Sealing Tape Hannoband®-BG1

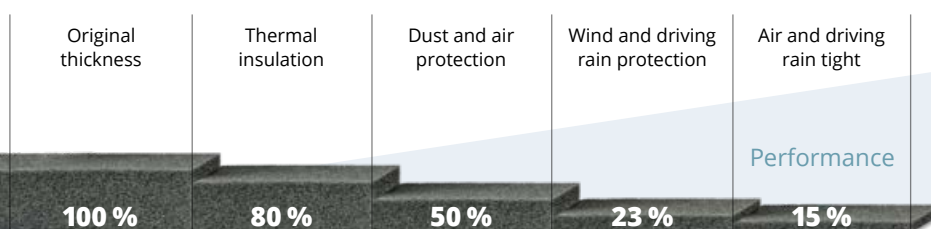
Technical data, installation videos and declaration of performance

* Only Hannoband®-BG1

** With two joint sealing tapes



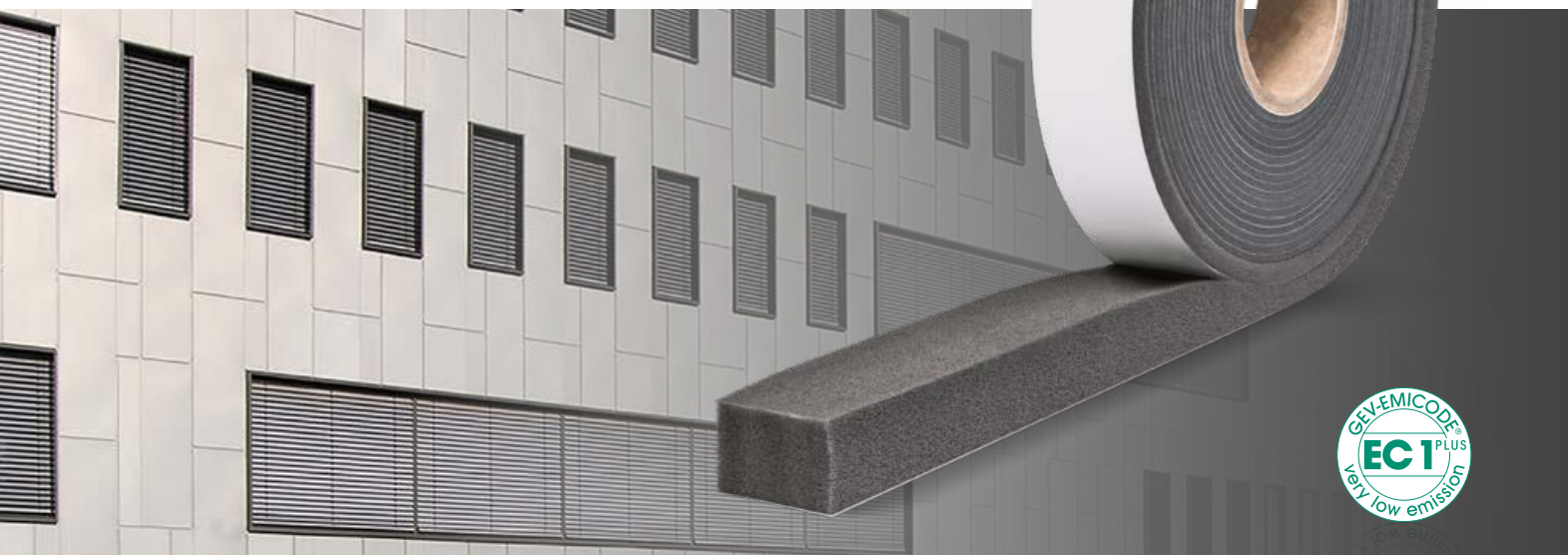
Typical Sealant Tape Performance



Thermal Insulation Tape

Hannoband®-THERM

Thermal and Noise Insulation



For concealed applications – cost efficient protection against draught, dust, blowing snow, moisture and noise providing excellent thermal insulation. This tape is ideal to seal even large joints up to 40 mm and comes in various widths as from 30 mm to accommodate any construction situation.

The driving rain and air tightness performance depends on the compression rate of the foam.

- Flammability: DIN EN 13501 building material class E – normal flammable material
- Thermal conductivity: $\lambda = 0.0396 \text{ W/mK}$
- Temperature resistance -30°C to $+80^\circ\text{C}$
- Extremely low VOC's: EMICODE EC1^{PLUS}

Dimensions

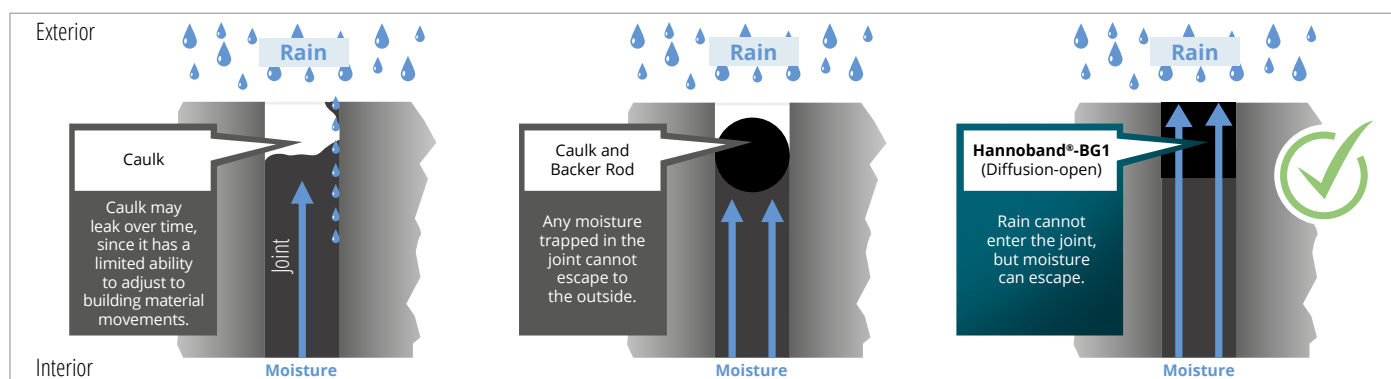
| Joint depth (t_f) | Joint width | |
|-----------------------|--------------------|--------------------|
| | Min (b_{\min}) | Max (b_{\max}) |
| > 30 mm | 5 mm | 24 mm |
| > 30 mm | 7 mm | 32 mm |
| > 30 mm | 8 mm | 40 mm |



Thermal Insulation Tape Hannoband®-THERM

Technical data and installation videos

Joint Moisture Scenarios for Different Sealing Options



Hidden Talents

HANNO – The Specialist in Joint Sealing and Sound Insulation

Hanno Werk GmbH & Co. KG, headquartered in Laatzen near Hanover, Germany, has its core competences in construction joint sealing and industrial seals, technical sound insulation for the automobile and mechanical engineering industry and also in the improvement of room acoustics and sound insulation.

The product portfolio comprises the well-recognized and proven Hannoband® to seal window and façade joints, highly effective industrial stamping parts as well as effective acoustic tiles for room acoustics.



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