

Hidden Talents

Sustainable, durable and reliable
sealing of joints in window
and façade construction





Aim High

The tape that grows with you

Whether joint sealing tapes, multi-functional tapes or moisture-variable flashing tapes, HANNO offers products for construction joint sealing on windows and façades for a range of applications. Product service life and performance depend on the product variant, the system and the application conditions. Ideal for those who want to aim high.

Hanno® - the original. For 130 years.



HANNO Products for Construction Joint Sealing

HANNO has been developing and producing sealing tapes and sound insulation for use in building construction and dry construction, industry, and other applications for many decades.

This catalogue provides a detailed overview of HANNO products used to seal construction joints in windows and façades.

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Innovation has a long tradition at HANNO

HANNO not only looks back on a long company history – our eyes are always on the future.

It all started with felt production, then expanded to the manufacture of flexible polyurethane foams and self-adhesive technology – right up to today's focus on impregnated joint sealing tapes and insulating, hydrophobic or conductive flexible synthetic foams.

Constantly developing our products and service spectrum further has always been an integral part of the company's identity. After all, finding a sustainable balance between the courage to change and appreciation of what has already been achieved is the basis of healthy growth.

Passed on through the generations, these values are part of what makes the company today not just successful, but also a reliable business partner.

We would like to thank you – our customers – for 130 years of company development and continue to offer ourselves as your reliable partner.

Sustainability and responsibility

A strong team in application technology and our own research & development also support our sales division in innovations and product variations. Important products and inventions are protected by numerous patents and utility models, both nationally and internationally.

Company development:

Since its founding as "Hannoversche Filzfabrik M. Mehlhard" in 1895 the company has grown significantly.

130 years later, HANNO comprises not only the company headquarters in Laatzen near Hanover (picture below) but also other international locations in Switzerland and the United States.



In our modern premises in Laatzen, we have optimised processes and short distances and are committed to Germany as a production location and to HANNO products "Made in Germany".

All over the world, renowned builders rely on products from HANNO

Worldwide delivery and locations in Germany, Switzerland and the USA complement the partnerships with distributors and OEM customers around the globe. The HANNO brand combines company name and products, but third-party brands are also firmly established.

Whether sealing façade joints or professionally sealing window connection joints: the high quality of Hannoband® continues to convince. Numerous large projects, such as the "White Max", the tallest residential building in Düsseldorf, the "Cool 63" residential and business center in the heart of Rotterdam (Holland), which has been recognized for its sustainability, and the renovation of the "Hahne's" department store in the heart of Newark, New Jersey (USA) or the joint sealing at the Actelion Business Center in Allschwil (Switzerland) were successfully implemented.

Not least due to the new energy awareness of the population and the desire for long-lasting products as well as new legal regulations, numerous private building owners are also increasingly using HANNO products for sealing construction joints.

Planning basics for architects

Even during the planning of your project, HANNO does not leave you alone: the consultation in advance, the training of your employees as well as the support during the construction phase are all part of our self-conception. Therefore HANNO provides detailed technical information and installation instructions on hanno.com.

Extensive window connection variations in various types of masonry, thermal insulation composite systems, and front door and balcony/patio door connections – architects and planners can find the respective recommendation in accordance with the generally recognised rules of technology.

→ See page 42 for more information



^ "White Max" (Düsseldorf)

^ „Actelion Center“ (Allschwil)



Hanno®-Triple-Layer Joint Sealing System

Guaranteed to Stay Tight!

Comfort begins with HANNO:

With the effective products of the triple-layer joint sealing system, you are prepared for all requirements. Ensuring your customers' long-term comfort.

One system, many benefits

- Resistance to driving rain $\geq 600 \text{ Pa}^*$
- Airtightness and diffusion behaviour according to DIN 4108
- Effective sound insulation up to 62 dB
- Thermal insulation at passive house level
- 15-year object-related functional guarantee
- Certification by ift Rosenheim and RAL FDKS for selected components of the sealing system

"Tighter on the inside than on the outside"

Moisture is generated in living and working spaces and strives to escape into the outside air. This must not be done via the window connection joint, as the moisture-laden air would damage the connection area and reduce the thermal insulation, but via a controlled air exchange.

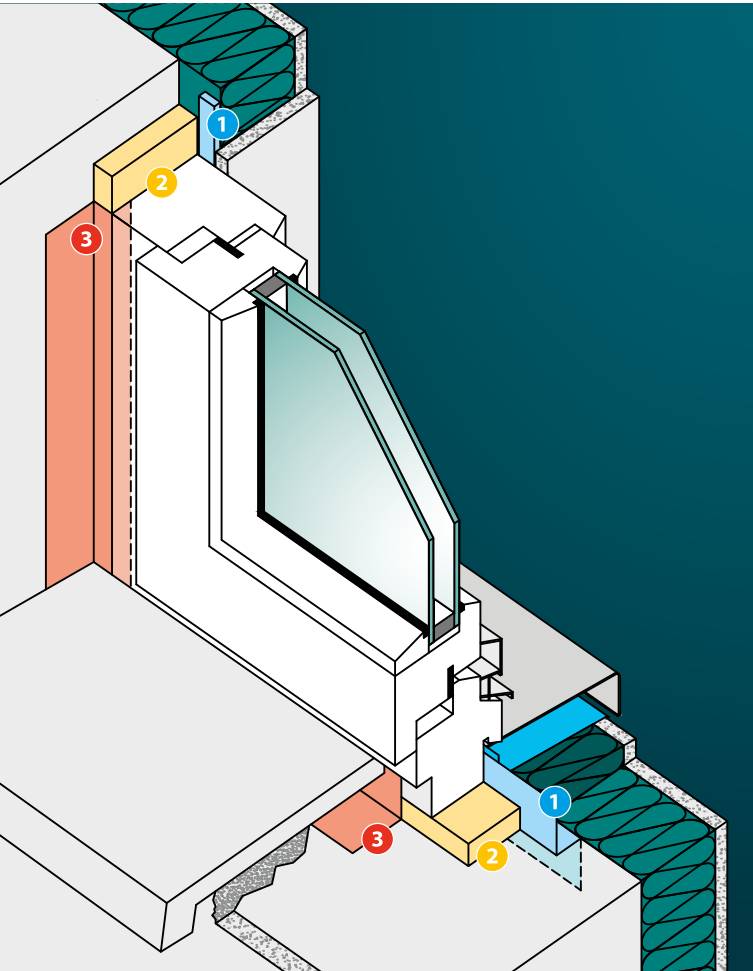
According to the Building Energy Act (GEG), "buildings to be constructed must be designed in such a way that the heat-transferring enclosure surface, including the joints, is permanently sealed, making it impermeable to air in accordance with the recognised rules of technology".

Therefore, connection joints must be sealed, properly and professionally. In doing so, special emphasis is placed on avoiding thermal bridges. The design can be carried out according to the principle of "tighter on the inside than on the outside", as well as through the installation of variable moisture-sealing products.

This involves sealing in different steps (three layers), which results in a vapour pressure gradient. In the case of reversed temperature conditions, a variability of the diffusion behaviour of the internal waterproofing is advantageous.



The products of the Hanno®-Triple-Layer Joint Sealing System are suitable for passive houses (certified by the BBS Institute, Wolfenbüttel)



The system also offers increased security against warranty claims: when the HANNO system components are used for all layers, we offer you a property-related functional guarantee of 15 years.

MPA HANNOVER has tested the Hanno®-Triple-Layer Joint Sealing System.

1. Weather protection layer for resistance to driving rain

Recommended products: Hannoband®-BG1, Hanno®-Flashing Tape DUO Easy.

2. Functional layer for thermal and sound insulation

Recommended products: Hannoband®-HBD Premium or PU mounting foam.

3. Inner layer for airtightness

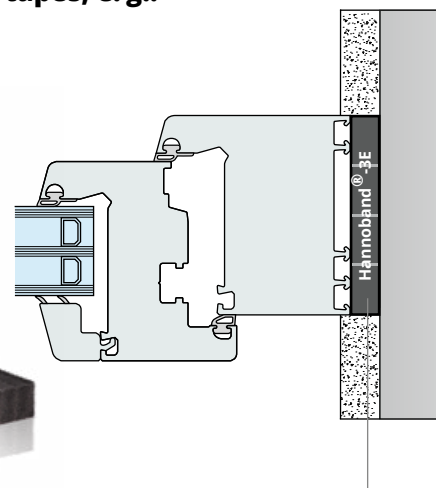
Recommended product: Hanno®-Flashing Tape DUO Easy.

Due to the interaction of the sealing layers, moisture that has penetrated the joint through imperfections or moisture from the construction phase can diffuse to the outside. Expensive renovation work caused by moisture damage and a loss of value of the building are prevented.

Tested and safe

The Hanno®-Triple-Layer Joint Sealing System gives your windows a joint seal suitable for passive houses. This has been tested and certified by the BBS Institute in Wolfenbüttel.

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



Hannoband® – The Original

Joint Sealing Made Easy



Hanno®-Joint Sealing Tapes

- Very low emissions
- More than 15 years of tested weather resistance
- Tested, durable, reliable

◀ Hannoband® is immediately ready for use. It can be applied in one step regardless of weather conditions.

HANNO offers a wide range of joint sealing solutions for window and façade construction.





Hannoband® complies with the GEV guidelines for ultra low-emission products.

Small components, significant impact: HANNO products are usually hidden from view and perform their function in the background. Our market-proven HANNO tapes have been delivering reliable results for around 60 years.

Hanno®-Joint Sealing Tapes reliably seal large joint tolerances. Additional functional membranes and high-performance adhesive coatings support the specified sealing performance and provide strong hold. They can contribute to protecting and preserving modern and historic building structures. Proper joint sealing can help reduce heat loss through the connection joint and protect the building structure against moisture ingress. Hanno®-Joint Sealing Tapes are available for a range of applications in window and façade construction.

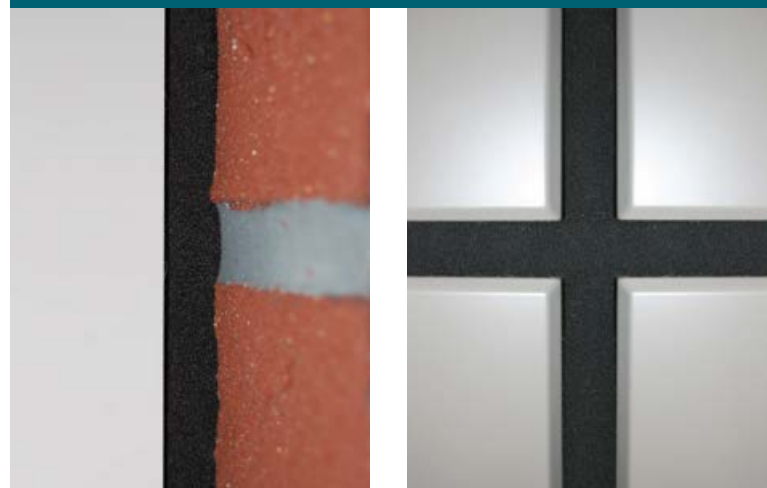
Hannoband® is designed for joint-sealing applications. Depending on the product variant and the verified application conditions, the tape can provide resistance to UV radiation and driving rain, diffusion-permeable behaviour and compensation for component movements as well as construction- and material-related tolerances. Hannoband® is ready for use and can be installed in one operation, independent of the weather. Moisture protection depends on the product variant, joint design and correct installation. For the specified product variants, the product documentation confirms manufacture without CFCs, halogens, formaldehyde, heavy-metal-containing substances or solvents.

In use worldwide

HANNO's joint sealing solutions are being used successfully around the globe.



- ✓ 130 years of experience, modern equipment and a qualified team form the basis for our product development and quality standards.
- ✓ Hannoband® is the right choice for highly stressed primary and cross joints.



Installation video

Do you have a special application or any questions? Then call our technical hotline: +49 5102 7000-208

Hannoband®-BG1

High Performance Construction

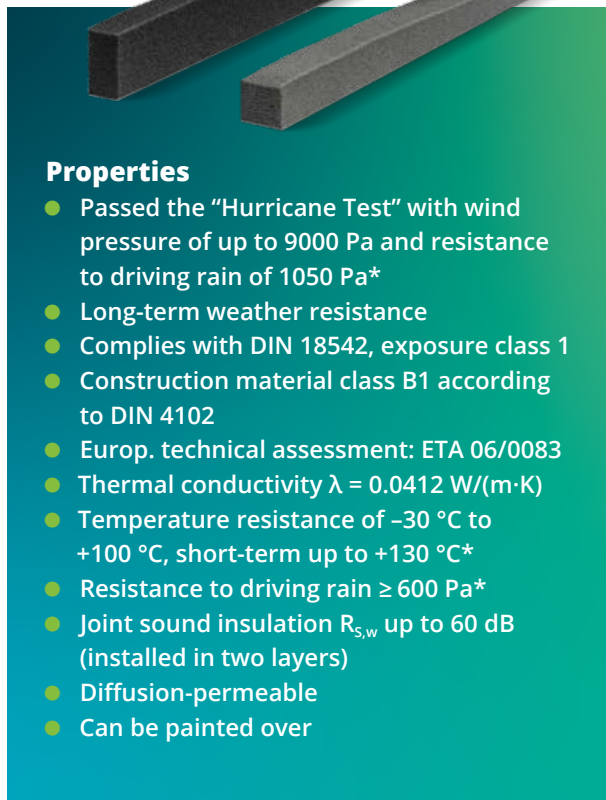
For heavy-duty primary and cross joints in façade and window construction

After an outdoor weathering test lasting more than 15 years in the joint, Hannoband-BG1 meets the tested requirements for resistance to driving rain, airtightness and weather resistance according to DIN 18542 and is certified with the RAL quality mark for joint-sealing components and systems.

Hannoband®-BG1-M

For challenging or large joint widths, we recommend using Hannoband®-BG1-M with HANNO membrane technology.

→ Hannoband®-BG1 is part of the Hanno®-Triple-Layer Joint Sealing System (page 6)

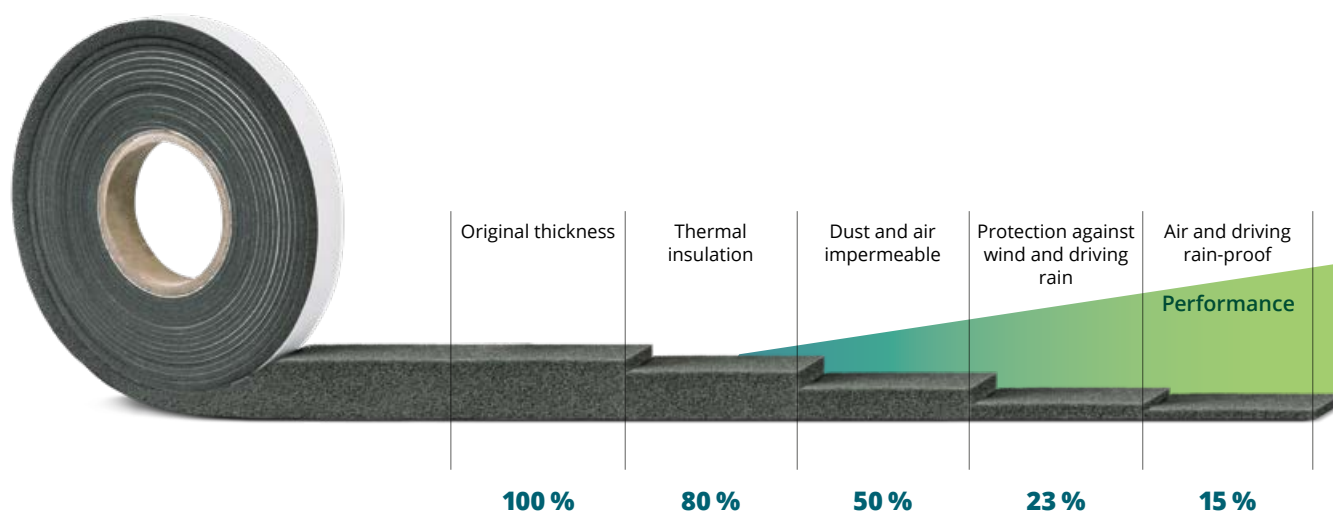


Properties

- Passed the "Hurricane Test" with wind pressure of up to 9000 Pa and resistance to driving rain of 1050 Pa*
- Long-term weather resistance
- Complies with DIN 18542, exposure class 1
- Construction material class B1 according to DIN 4102
- Europ. technical assessment: ETA 06/0083
- Thermal conductivity $\lambda = 0.0412 \text{ W/(m}\cdot\text{K)}$
- Temperature resistance of -30°C to $+100^\circ\text{C}$, short-term up to $+130^\circ\text{C}$ *
- Resistance to driving rain $\geq 600 \text{ Pa}$ *
- Joint sound insulation $R_{s,w}$ up to 60 dB (installed in two layers)
- Diffusion-permeable
- Can be painted over

* For unit conversion please refer to page 46

Typical performance characteristics of Hannoband®-BG1



Further product information:
Technical data, installation videos and declaration of performance



* only Hannoband®-BG1

Product overview

Standard colour: Grey¹

Order number	Joint depth ² (mm)	Joint width ² (mm)	Roll length (m)	Rolls/box	Boxes/pallet	Article number	EAN code
10/1.5–2.5	10	1.5–2.5	12	30	60	1344506331020001	4027713004596
15/1.5–2.5	15			20		1344506331520000	4027713004602
20/1.5–2.5	20			15		1344506332020000	4027713004619
10/2–4	10	2–4	10	30	60	1344506331030000	4027713004626
15/2–4	15			20		1344506331530000	4027713004633
20/2–4	20			15		1344506332030000	4027713000062
10/3–7	10	3–7	7.5	30	60	1344506331040000	4027713004657
15/3–7	15			20		1344506331540000	4027713004664
20/3–7	20			15		1344506332040000	4027713004671
10/5–10	10	5–10	5	30	60	1344506256021208	4027713004930
15/5–10	15			20		1344506331560000	4027713004688
20/5–10	20			15		1344506332060000	4027713004695
30/5–10	30			10		1344506333060000	4027713004701
15/7–12	15	7–12	4.3	20	60	1344506331580000	4027713005050
20/7–12	20			15		1344506332080000	4027713004718
30/7–12	30			10		1344506333080000	4027713004732
20/8–15	20	8–15	3	15	60	1344506332010000	4027713004749
25/8–15	25			12		1344506332510000	4027713004756
30/8–15	30			10		1344506333010000	4027713004763
20/10–18	20	10–18	5	15	60	1344506332512304	4027713005029
25/10–18	25			12		1344506332512000	4027713004770
30/10–18	30			10		134450633230408	4027713004787
25/8–18 ³	25	8–18	4.7	12	60	1349406012581800	4027713012621
25/12–25 ³	25	12–25		12		1349406012401000	4027713012645
35/20–35 ³	35	20–35		8		1349406012201310	4027713012591

¹ Also available in black and light grey.

² In case of non-parallel joint flanks, the tape thickness must be selected according to the widest point of the joints. The recommended joint widths must neither be undercut nor exceeded for proper functioning. The maximum/minimum joint widths include the component movements. The width (joint depth) must not fall below tested minimum dimensions.

³ The joint widths 8–18, 12–25 and 20–35 are supplied as Hannoband®-BG1-M with functional membranes integrated into the tape. Please note the test certificates available for Hannoband®-BG1-M (available from HANNO upon request).

Reference example



VW Commercial Vehicles (Hanover)

- Permanent sealing of the directly weathered joint against driving rain with Hannoband®-BG1
- Colour matching of the tape to the grout colour of the clinker brick strips

Hidden Talents



Small things that make a big impact

Be it joint sealing tapes, multi-functional tapes or flashing tapes – our products are usually invisible and work in the background, yet still always impress with maximum function.

As a specialist for joint sealing in building construction, we solve every challenge in this segment and find the optimum solution for our customers even in tricky situations.

Hanno® – the original. For 130 years.

Hannoband®-HBD Premium

For Not Directly Weather Exposed Joints



All-rounder with a wide range of applications

Hannoband®-HBD Premium is the first choice for covered window connections: Tested safety against warranty claims – suitable for connections in wood structures, prefabricated structures, half-timber structures, concrete structures and ETICS.

This versatile tape is suitable for connection joints, thermal seals between window frames and masonry, backfilling, profile couplings and roof tile seals, for example.

Hannoband®-HBD Premium XL

Also available as Hannoband®-HBD Premium XL in bigger roll lengths. This helps to avoid waste and for quick installation.

Properties

- Resistant to driving rain up to 600 Pa*/**
- Complies with DIN 18542, exposure class 2*
- Can be used as thermal insulation tape*
- Thermal conductivity $\lambda = 0.0396 \text{ W/(m}\cdot\text{K)}$
- Available in the colors black and grey

* Depending on joint width and depth

** For unit conversion please refer to page 46



Product overview

Standard colour: Grey¹

Order number	Joint depth ² (mm)	Application area joint width ² b _{max} (mm)					Roll length (m)	
		EN 1027 600 Pa	DIN 18542 BG2	EN 1027 300 Pa	Draft/dust	Thermal insulation	HBD Premium	HBD Premium XL
/1.5-3	10-80	2	2,5	3	5	8	18	36
/2-5	10-80	3	4	5	8	13	12	20
/3-5	15-80	4	5	5	10	16	9	18
/3-9	15-80	6	7	9	15	24	6	12
/5-12	15-80	8	10	12	20	32	5	10
/7-15	15-80	10	12	15	25	40	5	10
/8-19	20-80	12	15	19	30	50	4	8
/10-24	25-80	16	19	24	40	65	3	5

¹ Also available in black.

² In case of non-parallel joint flanks, the tape thickness must be selected according to the widest point of the joints. The recommended joint widths must neither be undercut nor exceeded for proper functioning. The maximum/minimum joint widths include the component movements. The width (joint depth) must not fall below tested minimum dimensions.



Further product information:
Technical data and installation videos

Hannoband®-BSB BG1

Fire Protection Tape

Joint sealing tape with acrylate-dispersion impregnation specially designed for fire protection. This speciality fire protection tape is fire retardant in accordance with DIN 4102 and can be used up to fire resistance class EI 120* in accordance with EN 1366-4. Confirmed through system testing.

Suitable for joints directly exposed to the weather, for fire protection doors and partition walls indoors and for fire protection windows, as well as to create joints between masonry walls and ensure fire protection properties.

* up to 120 minutes with double laying between masonry and brickwork.
60 minutes for double laying between masonry and timber frame.



Properties

- Complies with DIN 18542, exposure class 1
- DIN 4102, fire class B1
- Fire resistance class EI 120*, in accordance with 1366-4 – depending on the joint structure
- weather-independent installation
- “very low emission plus” EMICODE®-EC1^{PLUS}



Product overview

Standard colour: Light grey

Order number	Joint depth ¹ mm	Joint width ² (mm)	Roll length (m)	Rolls/ box	Boxes/ pallet	Article number	EAN code
15/5-9 20/5-9 30/5-9	15 20 30	5-9	5	20 15 10	60	1347935331560593 1347935332060593 1347935333060000	4027713013307 4027713013338 4027713013444
15/7-12 20/7-12 25/7-12 30/7-12	15 20 25 30	7-12	4.3	20 15 12 10	60	1347935331580593 1347935332080593 1347935332580593 1347935333080000	4027713013314 4027713013345 4027713013437 4027713013420
20/8-15 25/8-15 30/8-15 40/8-15	20 25 30 40	8-15	3	15 12 10 7	60	1347935332010593 1347935332510593 1347935331405140 1347935334010000	4027713013321 4027713013352 4027713013482 4027713015639
25/10-18 30/10-18	25 30	10-18	5	12 10	60	1347935332510140 1347935331280110	4027713013475 4027713013369
35/15-25 40/15-25	35 40	15-25	4.3	6 5	60	1347935333516530 1347935333103140	4027713013376 4027713013383
Further dimensions upon request							

¹ In case of non-parallel joint flanks, the tape thickness must be selected according to the widest point of the joints. The recommended joint widths must neither be undercut nor exceeded for proper functioning. The maximum/minimum joint widths include the component movements. The width (joint depth) must not fall below tested minimum dimensions.



Test Certificates

Safe from Warranty Claims

	BG1	HBD Premium	BSB BG1
MPA Bau Hannover – Materials Testing Institute for the building industry, Hanover			
Inspection according to DIN 18542, exposure class 1	•		•
Inspection according to DIN 18542, exposure class 2		•	
External monitoring contract	•		•
Determination of thermal conductivity	•	•	
Construction material class B1 in accordance with DIN 4102	•		•
DIN EN 13501 construction material class E		•	
MPA Hannover – Materials Testing Institute for Materials and Production Technology			
Assessment after practical outdoor weathering over a period of 15 years	•		
ift Rosenheim			
Proof of joint sound insulation	•	as system component	
Kiwa N.V., NL-2280 AB Rijswijk			
Komo product certificate	•	•	
Socotec			
Certification according to NFP85-570 and NFP85-571	•		
GEV – Gemeinschaft Emissionskontrollierte Verlegewerkstoffe, Klebstoffe und Bauprodukte e. V.			
Certified EMICODE® EC1 ^{PLUS}	•	•	•
DIBT – Deutsches Institut für Bautechnik, Berlin			
General building authority approval	•		•
ATI, Architectural Testing, Inc., York, Pennsylvania			
“Hurricane test” according to Miami Dade in accordance with ASTM E284, 330, 331	•		

Application Options

The Right Building Protection Come Rain or Shine

	BG1/ BG1-M	HBD Premium	BSB BG1
Window construction			
Driving rain-proof connection joints for different window-wall connections $\geq 600 \text{ Pa}^*$	•		•
Driving rain-proof connection joints for different window-wall connections $\geq 300 \text{ Pa}^*$	•	•	•
Connection joints with a permeability of $a_n < 1.0 \text{ m}^3/[\text{h} \cdot \text{m} \cdot (\text{daPa})^{2/3}]$	•	•	•
Connection joints with a permeability of $a_n < 0.1 \text{ m}^3/[\text{h} \cdot \text{m} \cdot (\text{daPa})^{2/3}]$	• ¹		
Thermal separation/insulation	•	•	•
Sound insulation requirements	•	• ²	
Profile couplings/backfilling/performance	•	•	•
Façade construction			
Movement joints in slab buildings	•		•
Thermal insulation composite system	•		•
Clinker shells	•		•
Precast concrete elements	•		•
Natural stone façades	•		•
Support for in-situ concrete/concrete elements	•	•	•
Prefabricated construction			
Waterproofing in timber house construction/log house construction/frame construction	•	•	•
Thermal insulation in prefabricated construction	•	•	•
Soundproof walls	•		•
Isowalls	•	•	•
Winter garden construction	•	•	•
Interior design			
Lightweight partition walls/dry construction connections	•	•	•
Airtight connections in pitched roofs	•		•
Decoupling of raised floors	•	•	•

* For unit conversion please refer to page 46

¹ In the nominal joint (only applies to BG1)

² System test with FA Easy/FI Easy

Continued on next page

	BG1/ BG1-M	HBD Premium	BSB BG1
Lightweight metal construction			
Lightweight metal construction according to IFBS guideline BG1 based on DIN 18542/Type 1a	•		
Lightweight metal construction according to IFBS guideline BG2 based on DIN 18542/type 2a		•	
Connection joints resistant to driving rain > 600 Pa*	•		•
Connection joints resistant to driving rain > 300 Pa*	•	•	•
Connections with a joint permeability $a_n < 1.0 \text{ m}^3/[\text{h} \cdot \text{m} \cdot (\text{daPa})^{2/3}]$	•	•	
Connections with a joint permeability $a_n < 0.1 \text{ m}^3/[\text{h} \cdot \text{m} \cdot (\text{daPa})^{2/3}]$	• ¹		
Pitched/flat roof			
Solar collectors	•	•	
Roof windows	•	•	
Flat roof connections	•		
Chimney connections	•		
Sheet metal roofing/standing seams	•		
Connections to arcade rooflights/domes	•		
Roof tile sealing	•	•	
Roof penetrations	•	•	
Ridge/ridge/groin/dormer	•	•	
Gable/masonry connections	•	•	

* For unit conversion please refer to page 46

¹ In the nominal joint (only applies to BG1)

² System test with FA Easy/FI Easy

Hanno®-Multi-Functional Tapes

Moisture Management through Proven Membrane Technology



True multi-talents

- Significant time and cost savings
- Installation independent of weather conditions
- Easy handling
- Only one or two products needed, depending on the window connection
- No adhesion failure in case of component movement
- All-year drying of the connection joint
- Meets all requirements of the German Building Energy Act (GEG)
- Protect the connection joint from external and room loads
- Very good thermal insulation
- High sound insulation effect

◀ After installation, the polyurethane foam expands in the window joint – and seals it permanently.

The “all-in-one” multi-functional tapes from HANNO are especially well-suited for safely and quickly sealing window joints. The moisture-variable membrane technology supports moisture transport out of the joint.





Hannoband® complies with the GEV guidelines for ultra low-emission products.

For simple and reliable sealing of windows and doors in any weather, Hanno®-Multi-Functional Tapes are the right choice.

These highly innovative sealing tapes offer excellent thermal, acoustic, air, and driving-rain protection. The moisture-variable membrane technology facilitates moisture transport out of the joint. Thanks to their high thermal insulation value, Hanno®-Multi-Functional Tapes meet all requirements of the Building Energy Act (GEG). The excellent sound insulation properties of these tapes round out their high quality standard.

The pre-compressed polyurethane soft foam recovers in the window joint after installation and seals the joint. It is designed to accommodate component movements, such as those caused by temperature changes, within the verified test and application conditions.

With its multi-functional tapes, HANNO offers you the right solution for virtually any application.



Quick and easy installation at any time of the year

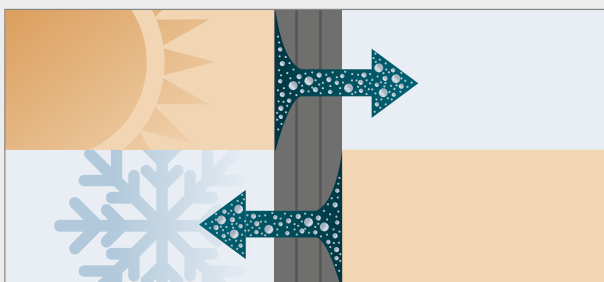
Do you have a special application or any questions?
Then call our technical hotline: +49 5102 7000-208



Installation video

Moisture-variable principle

(diffusion management through membrane)

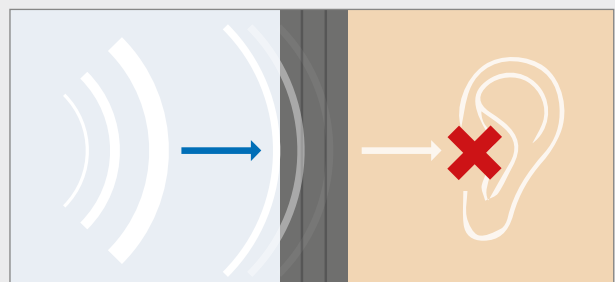


Outside (warm or cold)

Inside (cool or warm)

Acoustic principle

(extremely airtight membrane = high sound insulation)



Outside (higher noise level)

Inside (significantly lower noise level)

Hannoband®-3E BG1

Premium Tape with Extended Joint Range

Versatile multi-functional tape for window connection joints

With at least two integrated functional membranes, this tape supports year-round moisture transport out of the connection joint. MPA BAU HANNOVER has verified that the HANNO high-performance membranes adapt to moisture. Hannoband®-3E BG1 is tighter against diffusion on the moister side than on the drier side, thus transporting the moisture out of the joint. The principle works both in the typical winter situation demanded under RAL "tighter inside than out" and in reverse diffusion in summer. The joint can dry out all year round.

→ Hannoband®-3E BG1 is part of the Hanno®-Triple-Layer Joint Sealing System (page 6)

Properties

- Fulfills the specifications of the "Installation guidelines" of RAL Quality Assurance for Windows, Facades and Entrance Doors
- Convincing performance for permanently dry connection joints
- Resistance to driving rain $\geq 1050 \text{ Pa}^*$ in accordance with EN 1027
- Very high airtightness in ift component testing under MO 01/1 with $< 0.05 \text{ m}^3/\text{mh}$ at 50 Pa^*
- Very low joint permeability $a_n < 0.1 \text{ m}^3/(\text{h} \cdot \text{m} \cdot (\text{daPa})^{2/3})$
- Complies with DIN 18542:2020, exposure class MF1 and MF2
- Construction material class B1 (DIN 4102)
- Assessed joint noise reduction $R_{s,w} 59 \text{ dB}$ (not plastered)
- Passive house compliant

Product overview

* For unit conversion please refer to page 46

Standard colour: Anthracite

Order number	Tape width (mm)	Window depth (mm)	Roll length (m)	Rolls/box	Boxes/pallet	Article number	EAN code
56/4-11	56	60	14.1	5	48	1347801015649240	4027713018005
56/6-18			14.1		36	1347801015661240	4027713018012
56/10-24			9.4		36	1347801015610240	4027713018029
56/15-36			4.7		36	1347801015615240	4027713018036
64/4-11	64	70	14.1	4	48	1347801016449240	4027713018043
64/6-18			14.1		36	1347801016461240	4027713018050
64/10-24			9.4		36	1347801016410240	4027713018067
64/15-36			4.7		36	1347801016415240	4027713018074
74/4-11	74	80	14.1	4	48	1347801017449240	4027713018081
74/6-18			14.1		36	1347801017461240	4027713018098
74/10-24			9.4		36	1347801017410240	4027713018104
74/15-36			4.7		36	1347801017415240	4027713018111
84/4-11	84	90	14.1	3	48	1347801018449240	4027713018128
84/6-18			14.1		36	1347801018461240	4027713018135
84/10-24			9.4		36	1347801018410240	4027713018142
84/15-36			4.7		36	1347801018415240	4027713018159
94/4-11	94	100	14.1	3	48	1347801019449240	4027713018166
94/6-18			14.1		36	1347801019461240	4027713018173
94/10-24			9.4		36	1347801019410240	4027713018180
94/15-36			4.7		36	1347801019415240	4027713018197

Joint widths: see page 21. Other dimensions available on request with minimum order quantities and delivery time.

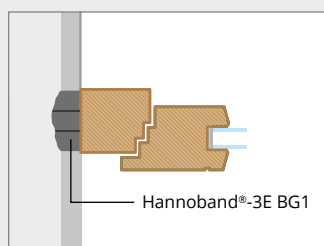


Application areas Hannoband®-3E

Different technical specifications for joint widths apply depending on the area of application. Please select your product according to the following criteria.

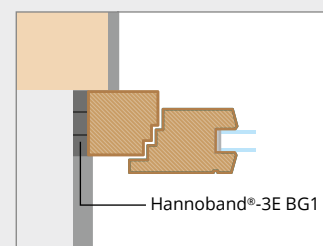
MF2 concealed installation (i.e. passive house)

Hannoband®-3E BG1 was tested by the BBS Institute Wolfenbüttel to determine whether its thermal properties make it suitable for use in passive houses and for airtight installation. The tape achieved airtightness levels well below the requirements of DIN 4108-2, with an a_n -value of almost 0. This also applies in the installed state, as shown in the system test of ift Rosenheim ($a_n < 0.05$).



MF1 Directly weather exposed (i.e. classic new construction)

Hannoband®-3E BG1 fulfils or exceeds all of the requirements of DIN 4108-2, the German Building Energy Act (GEG) or RAL guidelines for installation of multi-functional tape in classic new construction. Long-lasting weather resistance. With Hannoband®-3E BG1, you will always be on the safe side.

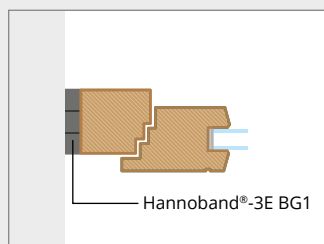


Order number	Joint width (mm)
4-11	4-11
6-18	6-18
10-24	10-24
15-36	15-36

Order number	Joint width (mm)
4-11	4-9
6-18	6-15
10-24	10-20
15-36	15-30

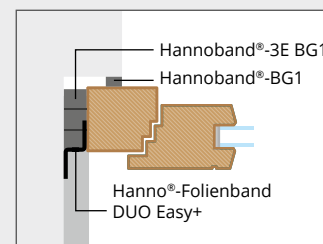
$a_n < 0.1$, RDS ≥ 600 Pa, concealed installation (i.e. renovations, covered installation)

Seals need to ensure airtightness in accordance with DIN 4108-2 with a value of $a_n < 0.1$ in renovation projects – no problem at all for Hannoband®-3E BG1.



Thermal insulation

Hannoband®-3E BG1 is tested in accordance with DIN EN 13501 construction material class E even when fully expanded, and can be used for thermal and noise insulation without restriction.



Order number	Joint width (mm)
4-11	3-12
6-18	4-21
10-24	7-28
15-36	10-42

Order number	Joint width (mm)
4-11	3-15
6-18	4-25
10-24	7-33
15-36	10-50



Hannoband®-3E Easy

Our New Leading Role – for MF1 and MF2

Hannoband®-3E Easy is a multi-functional tape of the latest generation – with patented membrane technology that has been tried and tested over many years – for professional sealing of all functional areas in window joint sealing with just one product. Hannoband®-3E Easy meets all requirements for airtight and driving rain-proof sealing.

The external moisture-variable high-performance membranes protect the functional level in accordance with DIN 18542 and visualize the three levels.

A wide variety of joint widths and window profile thicknesses can be professionally sealed – thanks to numerous tape widths and thicknesses. Depending on the degree of compression, our all-in-one tape can be used flexibly and is suitable for both MF1 and MF2 specifications.



Properties

- Flexible use: suitable to meet all MF1 and MF2 specifications
- Easy handling due to neutral running direction
- Moisture-variable for permanently dry connection joints
- Airtight and driving rain-tight up to 1050 Pa (21.93 Psf)
- UV and weather resistant
- Assessed joint noise reduction $R_{s,w}$ 57 dB (not plastered)
- Suitable for passive houses and new building constructions
- MPA-tested and GEG-compliant (German Building Energy Act)

Product overview

Standard colour: Anthracite, grey



Tape width (mm)*	Area of application (mm)		Roll length (m)	Rolls/box	Boxes/pallet	Article number	EAN code
	Concealed installation (MF2)	Directly weather exposed (MF1)					
56/5-15	5-15	5-13	14.1	5	36	1348964105605150	4027713019460
56/9-22	9-22	9-18	9.4			1348964105609220	4027713019477
56/12-30	12-30	12-25	7			1348964105612300	4027713019484
56/18-40	18-40	18-35	4.7			1348964105618400	4027713019491
64/5-15	5-15	5-13	14.1	4	36	1348964106405150	4027713019507
64/9-22	9-22	9-18	9.4			1348964106409220	4027713019514
64/12-30	12-30	12-25	7			1348964106412300	4027713019521
64/18-40	18-40	18-35	4.7			1348964106418400	4027713019538
74/5-15	5-15	5-13	14.1	4	36	1348964107405150	4027713019545
74/9-22	9-22	9-18	9.4			1348964107409220	4027713019552
74/12-30	12-30	12-25	7			1348964107412300	4027713019569
74/18-40	18-40	18-35	4.7			1348964107418400	4027713019576
84/5-15	5-15	5-13	14.1	3	36	1348964108405150	4027713019583
84/9-22	9-22	9-18	9.4			1348964108409220	4027713019590
84/12-30	12-30	12-25	7			1348964108412300	4027713019606
84/18-40	18-40	18-35	4.7			1348964108418400	4027713019613



Further product information:
Technical data and installation videos

Hannoband®-3E

The Classic – for Joints Not Directly UV Exposed

Thanks to the integrated functional membranes, the moisture-adaptive tape creates a barrier effect on the side with the diffusion load.

MPA BAU HANNOVER has verified that the Hanno high-performance membranes adapt to moisture. They transport moisture out of the joint. This ensures a dry joint all year long.



Properties

- DIN EN 13501 class E
- Corresponds to DIN 18542:2020, exposure class MF2
- Resistance to driving rain $\geq 1050 \text{ Pa}^*$ in accordance with EN 1027
- Very high airtightness in ift component testing under MO 01/1 with $< 0.05 \text{ m}^3/\text{mh}$ at 50 Pa^*
- Airtight to $a_n < 0.1 \text{ m}^3(\text{h} \cdot \text{m} \cdot (\text{daPa})^{2/3})$
- Assessed joint noise reduction $R_{s,w} 57 \text{ dB}$ (not plastered)

* For unit conversion please refer to page 46

Product overview

Standard colour: Anthracite

Order number	Tape width (mm)	Joint width (mm)	Max. joint width (> 600 PA / $a_n < 0.1$)	Roll length (m)	Rolls/box	Boxes/pallet	Article number	EAN code
56/4-9 56/6-15 56/10-20 56/15-30	56	4-9 6-15 10-20 15-30	11 18 21 36	9.4 7 4.7 4.7	5	60 60 60 48	1347801010108081 1347801010108082 1347801010108083 1347801010108025	4027713014007 4027713014014 4027713014021 4027713014182
64/4-9 64/6-15 64/10-20 64/15-30	64	4-9 6-15 10-20 15-30	11 18 21 36	9.4 7 4.7 4.7	4	60 60 60 48	1347801010108084 1347801010108085 1347801010108086 1347801011290410	4027713014038 4027713014045 4027713014052 4027713014168
74/4-9 74/6-15 74/10-20 74/15-30	74	4-9 6-15 10-20 15-30	11 18 21 36	9.4 7 4.7 4.7	4	60 60 60 48	1347801010108087 1347801010108088 1347801010108089 1347801010108026	4027713014069 4027713014076 4027713014083 4027713014175
84/4-9 84/6-15 84/10-20 84/15-30	84	4-9 6-15 10-20 15-30	11 18 21 36	9.4 7 4.7 4.7	3	60 60 60 48	1347801010240610 1347801011040810 1347801018418089 1347801011130411	4027713014199 4027713014212 4027713014205 4027713014236
Other dimensions available on request with minimum order quantities and delivery time								



Further product information:
Technical data and installation videos

Hannoband®-3E Basic

Good, Inexpensive – for Concealed Applications

Hannoband®-3E Basic is used to seal window connection joints. The different tape widths and thicknesses enable a great variety of joint widths and window profile thicknesses to be sealed.

Hannoband®-3E Basic is not permanently weather-resistant, and is designed for covered applications.

Thanks to the integrated functional membranes, the tape creates a barrier effect on the side with the diffusion load.



Properties

- Corresponds to DIN 18542:2020, exposure class MF2
- Construction material class E (EN 13501)
- Resistance to driving rain $\geq 600 \text{ Pa}^*$ in accordance with EN 1027
- airtight $a_n < 0.1 \text{ m}^3/(\text{h} \cdot \text{m} \cdot (\text{daPa})^{2/3})$

* For unit conversion please refer to page 46



Product overview

Standard colour: Grey

Order number	Tape width (mm)	Window depth (mm)	Joint width (mm)	Roll length (m)	Rolls/box	Boxes/pallet	Article number	EAN code
56/4-9 56/6-15 56/10-20 56/15-30	56	60	4-9 6-15 10-20 15-30	18.8 14.1 11.7 9.4	5	48 48 36 36	1342001015649010 1342001015661510 1342001012404180 1342001015615300	4027713 01650 4027713 01651 4027713 01718 4027713 01720
64/4-9 64/6-15 64/10-20 64/15-30	64	70	4-9 6-15 10-20 15-30	18.8 14.1 11.7 9.4	4	48 48 36 36	1342001016449010 1342001010411160 1342001012404170 1342001012404080	4027713 01721 4027713 01648 4027713 01684 4027713 01297
74/4-9 74/6-15 74/10-20 74/15-30	74	80	4-9 6-15 10-20 15-30	18.8 14.1 11.7 9.4	4	48 48 36 36	1342001017449010 1342001021511160 1342001041304170 1342001041304120	4027713 01722 4027713 01647 4027713 01645 4027713 01298
84/4-9 84/6-15 84/10-20 84/15-30	84	90	4-9 6-15 10-20 15-30	18.8 14.1 11.7 9.4	3	48 48 36 36	1342001018449010 1342001021304170 1342001011304170 1342001011304180	4027713 01723 4027713 01644 4027713 01643 4027713 01719
Other dimensions available on request with minimum order quantities and delivery time								



Hannoband®-3E Basic BG1

Smart, Inexpensive – for Exposed Applications

For all applications, for all requirements

Hannoband®-3E Basic BG1 – for sealing all functional areas in window joint sealing. The tape fulfills all requirements including airtightness and heavy rain tight sealing. The different tape widths and thicknesses enable a great variety of joint widths and window profile dimensions to be sealed.

Thanks to the integrated functional membranes, the tape creates a barrier effect on the side with the diffusion load.

* For unit conversion please refer to page 46

Properties

- Complies with DIN 18542:2020, exposure class MF1
- Construction material class B1 (DIN 4102)
- Resistance to driving rain $\geq 600 \text{ Pa}^*$, possible up to 1050 Pa^*
- Airtight $a_n < 0.1 \text{ m}^3/(\text{h} \cdot \text{m} \cdot (\text{daPa})^{2/3})$
- Assessed joint noise reduction $R_{S,W} 59 \text{ dB}$ (not plastered)

Product overview

Standard colour: Grey



Tape width (mm)*	Area of application (mm)		Roll length (m)	Rolls/box	Boxes/pallet	Article number	EAN code
	Concealed installation (MF2)	Directly weather exposed (MF1)					
56	4-11	4-9	16.5	5	48	1347801010100280	4027713018487
	5-15	5-13	14.1		36	-	-
	6-18	6-15	11.7		48	1347801010100820	4027713018494
	9-22	9-18	9.4		36	-	-
	10-24	10-20	9.4		36	1347801010100420	4027713018500
	12-30	12-25	7		36	-	-
	15-36	15-30	7		36	1347801010100430	4027713018517
	18-40	18-35	4.7		36	-	-
64	4-11	4-9	16.5	4	48	13478010101008180	4027713014526
	5-15	5-13	14.1		36	-	-
	6-18	6-15	11.7		48	13478010101008280	4027713018531
	9-22	9-18	9.4		36	-	-
	10-24	10-20	9.4		36	13478010101008290	4027713009904
	12-30	12-25	7		36	-	-
	15-36	15-30	7		36	1347801010100440	4027713018548
	18-40	18-35	4.7		36	-	-
74	4-11	4-9	16.5	4	48	13478010101000180	4027713014557
	5-15	5-13	14.1		36	-	-
	6-18	6-15	11.7		48	13478010101000200	4027713014564
	9-22	9-18	9.4		36	-	-
	10-24	10-20	9.4		36	13478010101000460	4027713018579
	12-30	12-25	7		36	-	-
	15-36	15-30	7		36	13478010101000450	4027713018586
	18-40	18-35	4.7		36	-	-
84	4-11	4-9	16.5	3	48	13478010101000380	4027713018593
	5-15	5-13	14.1		36	-	-
	6-18	6-15	11.7		48	13478010101000390	4027713018609
	9-22	9-18	9.4		36	-	-
	10-24	10-20	9.4		36	13478010101000400	4027713018616
	12-30	12-25	7		36	-	-
	15-36	15-30	7		36	13478010101000410	4027713018623
	18-40	18-35	4.7		36	-	-

Other dimensions available on request with minimum order quantities and delivery time



Further product information:
Technical data and installation videos

Hannoband®-3E UA

Specifically for the Bottom Window Connection

HANNO developed Hannoband®-3E UA for secure connections of bottom window joints – available in all common widths for different connection profiles.



Properties

- EN 13501 construction material class E
- Variable moisture adaptation
- Resistance to driving rain $\geq 600 \text{ Pa}^*$ in accordance with EN 1027
- For airtight connections $a_n < 0.1 \text{ m}^3/(\text{h} \cdot \text{m} \cdot (\text{daPa})^{2/3})$
- Sound and thermal insulation

* For unit conversion please refer to page 46



Product overview

Standard colour: Anthracite

Order number	Tape width (mm)	Window depth (mm)	Joint width (mm)	Roll length (m)	Rolls/box	Boxes/pallet	Article number	EAN code
30/4-9	30	30	4-9	9.4	10	60	1347801013040000	4027713013901
30/6-15			6-15	7		60	1347801013060000	4027713013918
30/10-20			10-20	4.7		60	1347801013010000	4027713013925
30/15-30			15-30	4.7		48	1347801013291110	4027713013895
35/4-9	35	35	4-9	9.4	8	60	1347801013540000	4027713013932
35/6-15			6-15	7		60	1347801013560000	4027713013949
35/10-20			10-20	4.7		60	1347801013510000	4027713013956
35/15-30			15-30	4.7		48	1347801013310810	4027713013994
40/4-9	40	40	4-9	9.4	7	60	1347801014040000	4027713013963
40/6-15			6-15	7		60	1347801014060000	4027713013970
40/10-20			10-20	4.7		60	1347801014010000	4027713013987
40/15-30			15-30	4.7		48	1347801014015000	4027713013888

Other dimensions available on request with minimum order quantities and delivery time



Test Certificates

Safe from Warranty Claims

	3E BG1	3E Easy	3E	3E Basic	3E Basic BG1	3E UA
MPA Bau Hannover – Materials Testing Institute for the building industry, Hanover						
Inspection according to DIN 18542:2020, MF1	•	•			•	
Inspection according to DIN 18542:2020, MF2	•	•	•	•	•	•
Determination of thermal conductivity	•	•	•	•	•	•
Determination of water vapour diffusion resistance	•	•	•	•	•	•
General building authority test according to DIN 4102 B1 (flame retardant)	•	•			•	
DIN EN 13501 construction material class E	•	•	•	•	•	•
Proof of airtightness according to EN 1026	•	•	•	•	•	•
Proof of resistance to driving rain according to EN 1027	•	•	•	•	•	•
Proof of UV/ weather resistance according to DIN 18542:2020	•	•			•	
ift Rosenheim						
Measurement of the joint sound reduction index	•	•	•	•	•	
Component testing: Testing of joint properties of a sealing system between window and building structure in new condition as well as after simulated short-term loads	•	•	•		•	
Expert opinion requirements passive house	•				•	
GEV – Gemeinschaft Emissionskontrollierte Verlegewerkstoffe, Klebstoffe und Bauprodukte e. V.						
Certified EMICODE® EC1 ^{PLUS}	•	•	•	•	•	•

Hanno®-Injection Block

PU Injection Resin

To create pressure-resistant areas in multi-functional tapes

Hanno®-Injection Block is a PU injection resin injected at specific points in multi-functional tapes. After curing, the resin is pressure-resistant and absorbs the weight loads and additional loads, which occur for windows and doors – such as backfilling of fittings to achieve burglary protection requirements (tested up to resistance class RC3).

The resin is injected directly into the installed multi-functional tape, and the tape does not need to be notched before installation.

Suitable for pre-compressed multi-functional sealing tapes made from polyurethane soft foam with acrylate dispersion impregnation.

Delivery in common construction cartridges for handling with standard cartridge guns.

Cleaning of equipment only in non-cured state with common PU gun foam cleaner.

Properties

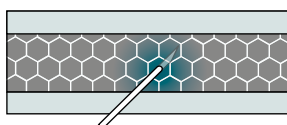
- Quick and easy injection directly into multi-functional tapes
- Creates pressure-resistant areas for absorbing weight loads and additional loads
- Easy to handle thanks to delayed curing process
- The injection resins can be used anywhere after installation without defining their position in advance



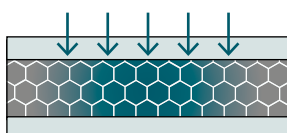
Further product information:
Technical data and installation videos

Item description	Unit content	Article number	EAN code
Injection Block	Cartridge 300 ml	1737201000015100	4027713018975
Packaging unit: 12 cartridges/ box plus one bag consisting of 1 assembly manual, 4 stickers, 2 adapters and caps, 5 injection cannulas			
Injection Block accessories	1 bag	1737201000015200	4027713018982
Packaging unit: One bag consisting of 1 assembly manual, 4 stickers, 2 adapters and caps, 5 injection cannulas			

Application



Precise injection into the installed and expanded multi-functional tape



After curing, the resin is pressure-resistant and durable





Am I Seeing Double?!

HANNO's innovative membrane technology: others are also trying their hand at it. We like to inspire with our patented products, but you'd better stick to the original – from the inventor of the membrane technology.

Hannoband®-3E BG1 – patented

For more than 10 years, innovative membranes in multi-functional tapes have been our standard. Hannoband®-3E BG1 is ift-certified, RAL FDKS-certified and has current MPA tests according to DIN 18542:2020 MF1.

Tested quality

The ift-certified multi-functional tape meets the stated DIN, GEG and RAL requirements and has been tested for building-joint sealing up to passive-house standard. It corresponds to current MPA tests, DIN 18542 and exposure classes MF1 and MF2.

Good moisture management

The moisture-variable functional membranes adjust their diffusion behaviour to the moisture conditions and support moisture transport out of the joint under the documented conditions.

Highest performance

Resistance to driving rain $\geq 1050 \text{ Pa}^*$. Airtight $a_n < 0.1$. Highly sound-insulating $R_{s,w}$ 59 dB.

Choose perfection. With the original.

* For unit conversion please refer to page 46



Hanno®-Flashing Tapes

For Sealing of the Window Connection Joint

Hanno®-Easy Flashing Tapes are self-adhesive and > adhere to all standard construction surfaces. They are easy to apply – even at low temperatures.

HANNO offers high-quality flashing tapes for all RAL-conforming applications in window installation with vapour pressure gradients.





Hanno®-Flashing Tapes comply with the GEV guidelines for ultra low-emission products.

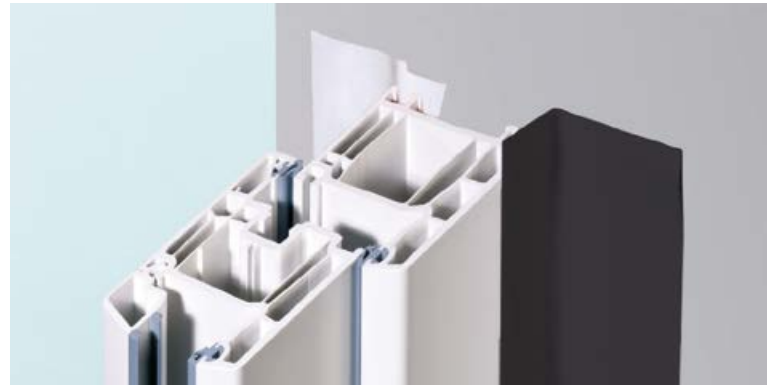
The weak point in window installation remains the interface between the masonry and the window, or the window joint. If the joint is not sealed with the appropriate degree of airtightness, the building can lose valuable energy.

In addition, the window may suffer moisture damage or even mould. This can require expensive or complicated repairs. HANNO supports you in the selection of suitable flashing tapes.

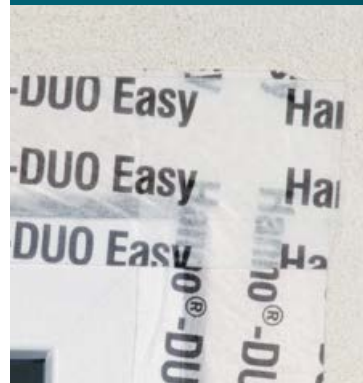
→ **Hanno®-Flashing Tapes are part of the Hanno®-Triple-Layer Joint Sealing System (page 6)**

→ **For secure bonding we recommend INSEBO® Sealing Adhesive F or Hanno®-MS Adhesive Multi 275 (page 40)**

Do you have a special application or any questions?
Then call our technical hotline: +49 5102 7000-208



- ✓ Hanno®-Flashing Tapes are available in several versions: as specialised products either for internal or external bonding ...
- ✓ ... and as a flexible, moisture-variable variant for both interior and exterior use.



Reference example



White Max (Düsseldorf)

- The tallest residential building in Düsseldorf
- Creation of an outer weather protection layer that is open to vapor diffusion, resistant to driving rain and can be plastered over using Hanno®-Flashing Tape DUO Easy
- Creation of a vapor diffusion-inhibiting and airtight inner layer
- Requirements for the elasticity of the sealing material due to component movements of the metal-wood windows

Hanno®-Flashing Tape DUO Easy

Moisture-Adaptive Flashing Tape for Interior and Exterior

Full-surface self-adhesive

Hanno®-Flashing Tape DUO Easy consists of a modified polyamide film/nonwoven material combination. The full-surface self-adhesive underside enables easy, full-coverage installation of the flashing tape for plastering or painting over, without additional adhesion on the masonry. DUO Easy+ has an additional adhesive strip on the opposite side.

Hanno®-Flashing Tape DUO Easy was designed especially for curtain-type window elements often used for energy efficient constructions. It is moisture-variable and therefore can be used both inside and outside. The s_d value for both tapes is between $0.48 \leq s_d \leq 12 \text{ m}$.

The strong resistance to driving rain of $\geq 1050 \text{ Pa}^*$ prevents the penetration of moisture on the weather side. On the inside, the important airtightness is achieved with an a_n -value of < 0.1 . The flashing tape can be installed at low temperatures down to -10°C .*/**

* For unit conversion please refer to page 46

** However, there should be no separating film, e. g. moisture, ice or hoar frost, on the surface on which the tape is installed because it would prevent the contact of the glue with the surface.

Properties

- Variable moisture – optimal moisture management in the joint:
 s_d value $0.48 \leq s_d \leq 12 \text{ m}$
- High resistance to driving rain $\geq 1050 \text{ Pa}^*$
- Airtight $a_n < 0.1 \text{ m}^3/(\text{h} \cdot \text{m} \cdot (\text{daPa})^{2/3})$
- Temperature resistance -40°C to $+80^\circ\text{C}^*$
- Processing temperature -10°C to $+30^\circ\text{C}^*$
- No additional foil adhesive required
- All bonded layers covered with longitudinally cut film
- Elastic and easy to work with
- Can be plastered or painted over
- UV stable for 12 months (in Central European climate zone)
- Suitable for renovations and new construction



Further product information:
Technical data and installation videos

Product overview

Standard colour: White

Flashing tape	Width (mm)	Roll length (m)	Rolls/box	Boxes/pallet	Article number	EAN code
DUO Easy	50	25	8	96	3736701000001700	4027713015547
	75		5		3736701000000000	4027713015462
	100		4		3736701000000100	4027713015479
	150		2		3736701000000200	4027713015486
	200		2		3736701000000300	4027713015493
	250		1		3736701000002500	4027713015578
	300		1		3736701000001900	4027713015554
DUO Easy+	50	25	8	96	3736702000005300	4027713015615
	75		5		3736702000000000	4027713015509
	100		4		3736702000000100	4027713015516
	150		2		3736702000000200	4027713015523
	200		2		3736702000000300	4027713015530
	250		1		3736702000002500	4027713015561
	300		1		3736702000004900	4027713015622

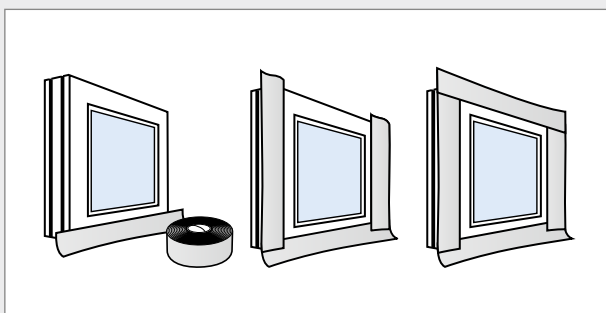


With its fully self-adhesive underside, the expandable Hanno®-Flashing Tape DUO Easy enables easy installation. In addition, the flashing tape can be completely plastered and painted over.

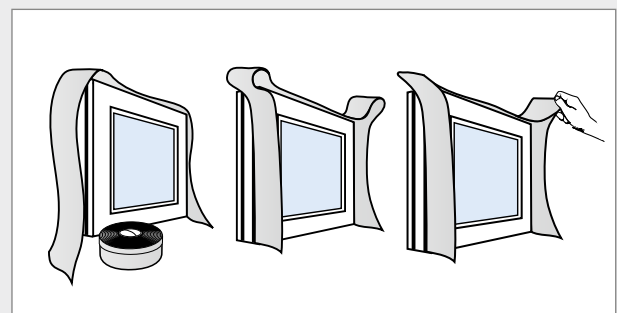


Hanno®-Flashing Tape DUO Easy+ has an additional adhesive strip on the opposite side and thus replaces conventional flashing tapes in many construction situations.

Installing Hanno®-Flashing Tape DUO Easy



Installing Hanno®-Flashing Tape DUO Easy+



Hanno®-Flashing Tape DUO Easy Pads

Premium Pads for Interior and Exterior

Fast and practical

Did you know? The versatile Hanno®-Flashing Tape DUO Easy is also available in roll format with individually peelable pads. These convenient stickers can be applied quickly and easily on the construction site.

Whether in roll format or as pads –

Hanno®-Flashing Tape DUO Easy is always the right choice!




Properties

- Roll material with individually peelable pads
- For interior and exterior use
- Moisture-variable
- High air tightness: a_n value of < 0.1
- High water tightness: resistance to driving rain (EN 1027 $\geq 1050^*$ Pa, MPA)
- Self-adhering on all typical construction substrates
- High adhesive strength without additional foil adhesive
- Quick and easy application
- UV stable for 12 months (in Central European climate zone)
- Resistance to water penetration according to EN 1228

* For unit conversion please refer to page 46



Product overview

** Basic tape DUO Easy 240

Standard colour: White

Flashing tape pads	Width x length (mm)	Roll length (m)	Rolls/box	Article number	EAN code
DUO Easy Pads	90 x 195	25	4	1736703000362200	4027713018906



Further product information:
Technical data and installation videos

Hanno®-Flashing Tape DUO Easy Black

For Interior and Exterior – in Black

Moisture-variable flashing tape for indoors and outdoors – in black

Hanno®-Flashing Tape DUO Easy Black consists of a modified polyamide foil/fleece combination. It has the same properties as the Hanno®-Flashing Tape DUO Easy (see page 32).

DUO Easy+ Black has an additional adhesive strip on the opposite side.



NEW!



Properties

- Variable moisture – optimal moisture management in the joint:
 s_d value $0.48 \leq s_d \leq 12$ m
- High resistance to driving rain ≥ 1050 Pa*
- Airtight $a_n < 0.1 \text{ m}^3/(\text{h} \cdot \text{m} \cdot (\text{daPa})^{2/3})$
- Temperature resistance -40°C to $+80^\circ\text{C}$ *
- Processing temperature -10°C to $+30^\circ\text{C}$ *
- No additional foil adhesive required
- All bonded layers covered with longitudinally cut film
- Elastic and easy to work with
- Can be plastered or painted over
- UV stable for 12 months (in Central European climate zone)
- Suitable for renovations and new construction



* For unit conversion please refer to page 46

Product overview

Standard colour: Black

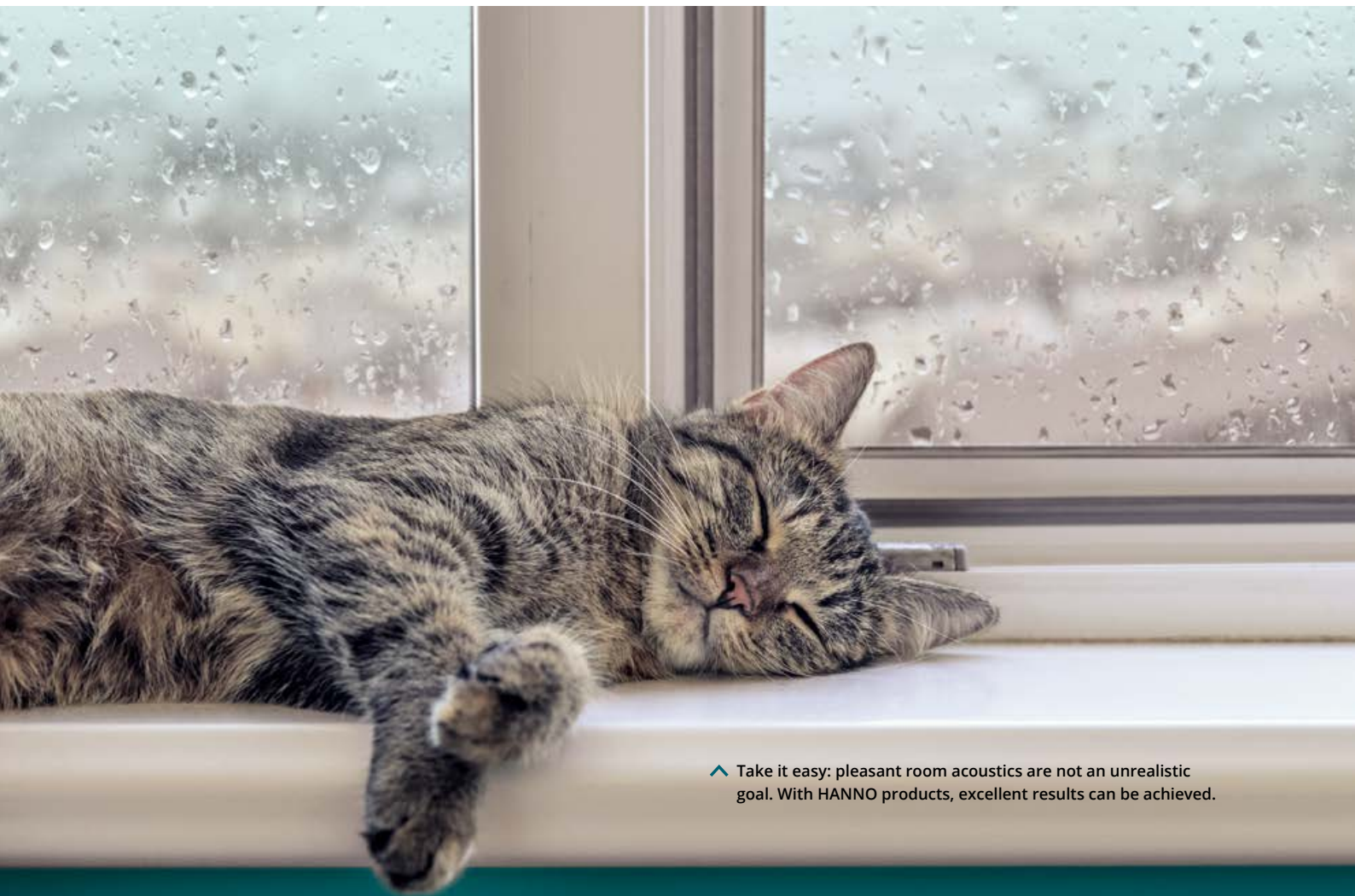
Flashing tape	Width (mm)	Roll length (m)	Rolls/box	Boxes/pallet
DUO Easy Black	50 75 100 150 200 250 300	25	8 5 4 2 2 1 1	96
DUO Easy+ Black	50 75 100 150 200 250 300	25	8 5 4 2 2 1 1	96



Further product information:
Technical data and installation videos

Sound and Thermal Insulation

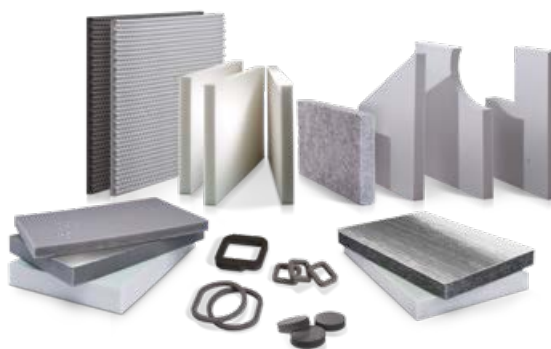
Nothing Gets Past HANNO



^ Take it easy: pleasant room acoustics are not an unrealistic goal. With HANNO products, excellent results can be achieved.

Much more than just joint sealing: HANNO offers a comprehensive range of products for sound, thermal and vibration insulation for building construction, various industrial applications and other areas.

→ The complete range for sound, thermal and vibration insulation can be found at www.hanno.com.



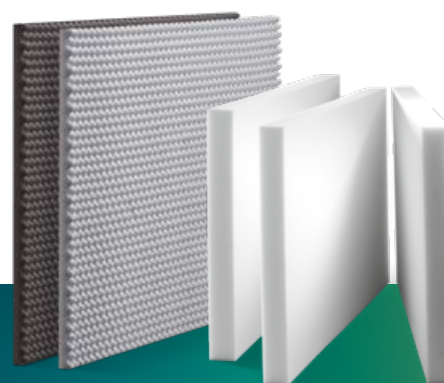
Hanno®-Tect

For Perfect Room Acoustics

Hanno®-Tect is a very lightweight material offering sound absorption and thermal insulation properties that can be used in a wide variety of applications. In addition, the material is extremely fire retardant for a high safety level.

Hanno®-Tect dimpled panels and Hanno®-Tect suspension panels provide sound insulation, for example in buildings, open-plan offices, industrial and factory halls, banks and insurance companies, sound studios, schools and kindergartens, homes, boats and music rooms.

Specialised surfaces or special types are also available, as are absorbers made of polyurethane foam and other artificial soft foams upon request.



Properties

- Open-cell melamine resin foam
- Light weight of 9–10 kg/m³
- Thermal/cold insulating 0.035 W/(m·K)
- Excellent sound absorption
- Hydrophobic/oleophobic versions available
- Fire retardant (temperature resistant up to 180 °C)*
- UV resistant
- Fibre-free
- Complies with DIN 5510-2, EN 45545, DIN 4102 B1
- Specialized surfaces and speciality types available

* For unit conversion please refer to page 46

Hanno®-Tect AL dimpled panels

Dimpled panels are used for sound insulation in buildings (open-plan offices, industrial and factory halls, banks and insurance buildings, sound studios). The panels can be bonded directly to even substrates – using INSEBO® Assembly Adhesive TK (see page 40). Because the dimpled texture does not run parallel to the edges, the panels cannot be installed without seams.

Hanno®-Tect suspension panels

These sound absorbing panels can easily be suspended below the ceiling in variable configurations using commonly-available components. Often, sound absorbing panels cannot be bonded to ceilings and walls for technical or physical reasons. This is one of the biggest advantages of a suspension system.

Product overview

Description	Dimensions (mm)	Packaging units	Article number
Suspension panel cuboid ¹	1100 x 500 x 48	32 ²	1110802001808100

Further cutting dimensions upon request.

¹ Incl. 64 foam screw hooks for suspension

² Delivery only in complete boxes



Further product information:
Technical data and installation videos

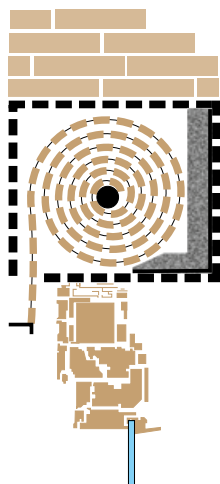
Hanno®-Roller Blind Box Insulation

Sound and Thermal Insulation for Roller Blind Boxes

The roller blind box insulation is a combination of an absorption layer – Hanno®-Tect open-cell melamine resin foam – combined with a 5 or 10 kg/m² flexible heavy foil.

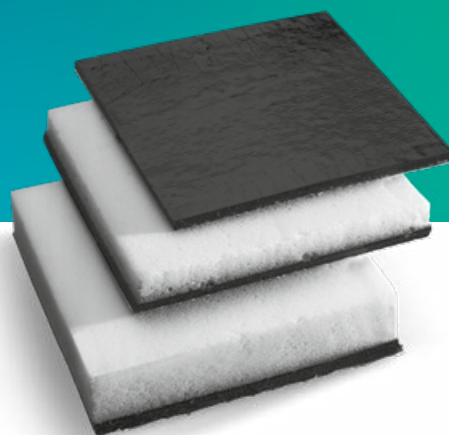
The foam layer provides outstanding airborne sound absorption and thermal insulation thanks to its low thermal conductivity value of < 0.035 W/(m·K). The soft, flexible heavy film stabilises the roller blind housing and increases its grammage, thus reducing sound permeability.

In addition to the product's excellent characteristics, the sheets are easy to install due to a self-adhesive layer.



Properties

- Temperature resistance –40 °C to +85 °C*
- Thermal conductivity: < 0.035 W/(m·K) (10 °C, d = 50 mm)
- Sound insulation value: approx. 40 dB
- Construction material class: B2 in accordance with DIN 4102
- No heat loss due to thermal bridges
- Improved sound and thermal insulation in roller blind box
- Can be laid at the factory or later in the installed roller blind box
- Self-adhesive for quick installation



* For unit conversion please refer to page 46

Product overview

Panel dimensions (mm) (L x W x H)	Panel structure	Heavy foil (kg/m ²)	Panel surface area (m ²)	Box content	Article number
1000 x 250 x 3	Heavy foil / self-adhesive	5	0.25	20 panels	1415101010250030
1000 x 250 x 10	Hanno®-Tect / heavy foil / self-adhesive	5	0.25	20 panels	1415101009250100
1000 x 250 x 20	Hanno®-Tect / heavy foil / self-adhesive	5	0.25	10 panels	1415101009250200
Minimum order quantity: value of goods > 500 EUR					



Further product information:
Technical data and installation videos

Hanno®-Protecto pf

Anti-Drumming Material for Window Sills and Casings

Protecto pf comprises various products made of heavy material layer combinations for the anti-drumming of casings and capsule surfaces. Protecto pf 810 and Protecto pf 820 refer to bitumen-impregnated wool felt boards. They have a self-adhesive layer on the back. Protecto pf 830 is made of a heavyweight elastomer-bitumen combination and also offers a self-adhesive coating on the back.

These materials help stabilise all kinds of metals and plastics while reinforcing them and adding weight. This has a sound deadening effect meaning that they prevent the spread of structure-borne sound. On the other hand, passage sound insulation, i. e. airborne sound propagation, is successfully prevented.

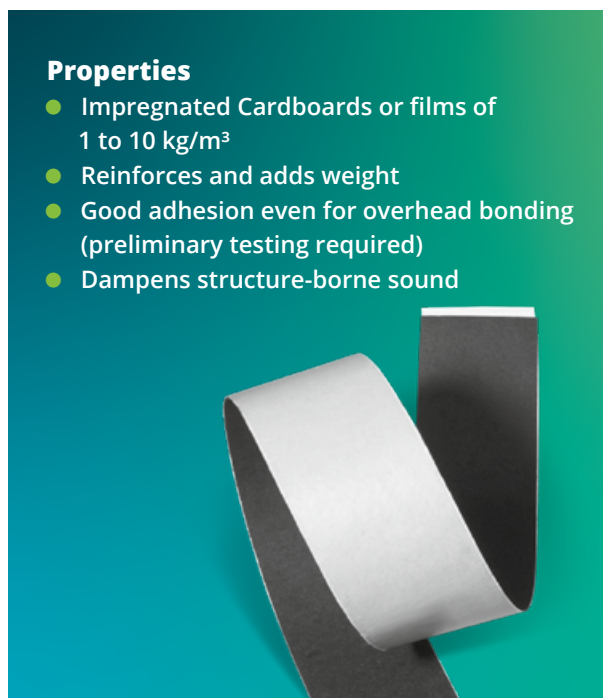
Protecto pf is particularly characterised by its excellent adhesive strength and high flexibility. The areas of application are extremely diverse.

Protecto pf is used, for example, for:

- Garage doors
- Façade elements
- Steel furniture
- Window sills
- Bath tubs and sinks
- Lift cabs
- Air conditioning systems
- Household appliances
- Machine cladding
- Automobile construction

Properties

- Impregnated Cardboards or films of 1 to 10 kg/m³
- Reinforces and adds weight
- Good adhesion even for overhead bonding (preliminary testing required)
- Dampens structure-borne sound



Product overview

Width	Surface weight (kg/m ²)	Width (mm)	Minimum order quantity per delivery	Article number
Protecto pf 810 FBD	Approx. 1	30	1 box = 630 m	1410101020000301
Protecto pf 810 FBD	Approx. 1	50	1 box = 360 m	1410101020130111
Protecto pf 810 FBD	Approx. 1	80	1 box = 210 m	1410101020071010
Protecto pf 810 FBD	Approx. 1	100	1 box = 180 m	1410101020240111
Protecto 820 and 830 available on request				



Further product information:
Technical data and installation videos

Adhesives

For Secure Bonding of HANNO Products

INSEBO® Sealing Adhesive F

Speciality adhesive for airtight connections in interior construction. For bonding films and nonwoven materials to masonry (in accordance with DIN 4108-7) and for creating vapour barriers in attic construction. For bonding and sealing flashing tapes, in particular in overlaps and folds. For airtight seals impermeable to driving rain in window connection films, as well as to seal openings in corner areas of window sills. Outstanding adhesion on polyolefines, such as polyethylene (PE) and polypropylene (PP) films. Solvent-free. Can be processed from -5 °C. No pressure bars required. Within the documented product scope, the product contains no phthalates, halogen compounds or flame retardants. Particularly low-emission – EMICODE® EC1^{PLUS}. Colour: light blue.

Product name	Content	Article number	EAN code
Sealing Adhesive F	300 ml cartridge	210-034	90 028 62 93034 2
Packaging unit: 20 cartridges / box			



→ Recommended for bonding Hanno®-Flashing Tapes

INSEBO® MS Adhesive Multi 275

For bonding Hanno®-Flashing Tapes (including EPDM) to concrete, stone, plaster, wood, solid coatings, metal, different plastics, etc. Also suitable for sealing construction joints (DIN 18540 not applicable). Rain-proof after just a short period. Can be applied to moist substrates. Can be used in cold conditions. Particularly low-emission – EMICODE® EC1^{PLUS}.

Product name	Content	Article number	EAN code
MS Adhesive Multi 275	290 ml cartridge	209-200	90 028 62 72900 7
Packaging unit: 20 cartridges / box			



→ Recommended for bonding Hanno®-Flashing Tapes

→ INSEBO® Sealing Adhesive F and Insebo® MS Adhesive Multi 275 are suitable for bonding the components of the Hanno®-Triple-Layer Joint Sealing System (page 6)

INSEBO® Assembly Adhesive TK

Versatile, solvent-free, stable and water-based dispersion adhesive for bonding tiles, polystyrene, wooden panels, skirting boards, window sills, foams etc. to brick, concrete, plaster, mortar and wood. Adhesive layer thickness: min. 2 mm. Fulfils the requirements for ecological construction materials (contains no phthalates, halogen connections, flame retardants, etc.). Can be painted over. Non-ageing and UV-resistant. The adhesive surface should be absorbent. Colour: Beige.

Product name	Content	Article number	EAN code
Assembly Adhesive TK	300 ml cartridge	210-001	90 028 62 23500 3
Assembly Adhesive TK	5 kg bucket	210-003	90 028 62 13050 6
Assembly Adhesive TK	12 kg bucket	210-004	90 028 62 30520 1
Packaging unit: 20 cartridges/box			



Always Well Advised with HANNO

Application Technology for Project Planners and Architects

Know-how: HANNO's application engineers have years of experience which they are happy to share with you



With 130 years of experience, HANNO offers you extensive expertise in the field of construction joint sealing. The specialists of HANNO's application engineering team will be pleased to advise you and will deal with your project in order to develop the optimal solution with you.



HANNO does not leave you alone

You can rely on this, as the partnership with HANNO goes far beyond the mere sale of products. As a member of RAL-FDKS, HANNO will be happy to advise you on the optimal and sustainable sealing of your construction joints before the start of the project. No matter whether concrete elements, façade elements, window or door joints are to be sealed or whether a timber construction or a roof extension is to be constructed, HANNO's specialists are always at your disposal and will work with you to develop the right product concept for your building project.

Even during the execution of your construction measures, you can always fall back on HANNO's application technology for assistance with tricky situations and unforeseen problems.

→ **Application engineering contact information, see page 47**

Training

HANNO conducts regular and extensive training courses on construction joint sealing. This familiarises your employees with the latest techniques, processing guidelines and products. In this way, HANNO helps you to protect yourself against warranty claims and to be able to offer your services according to the latest state of the art.

Do you have a special application or any questions?
Then call our technical hotline: +49 5102 7000-208



- ✓ The extensive training offers of HANNO always keep you up to date.
- ✓ If the worst comes to the worst, HANNO is also there to help and advise you during the ongoing construction project.



Responsibility

So that Good Things Get Better and Better

Research and development – highest quality and safety are our standard

Reliability and an up to date quality management system offer our customers, besides warranties and product liability, the necessary safety when dealing with our products.

HANNO is certified according to the quality management system IATF 16949:2016, into which ISO 9001:2015 is also integrated. This also includes the environmental policy. The process-oriented approach and the identification with clear processes help to avoid errors and to identify costs and benefits.

Regular in-house and externally monitored quality controls support consistent product characteristics.

Our high-quality standards ensure that our products maintain consistent quality. To meet our customers' needs and translate them into technical solutions, our research and development team develops innovative, high-performance products. Test reports from independent institutes further guarantee their safety.



^ A modern laboratory environment and elaborate test benches help to maintain high quality standards

Externally monitored > quality controls and tests are carried out regularly



Environmental management & compliance

As a global mid-sized company, we fulfil comprehensive standards of compliance and corporate social responsibility (CSR). Our environmental management is certified according to ISO 14001. Our responsibilities include waste prevention and disposal and the careful use of energy and resources. The safe handling of our materials serves the health of our employees and the environment.

Corresponding company and employee guidelines are part of our Corporate Social Responsibility (CSR). From the memberships in the Fachverband Schaumkunststoffe e. V., HANNO submits to the compliance and conduct rules published on our websites as well as to the Code of Conduct of the Verband der Nord-Westdeutschen Textilindustrie e. V.



Find out more:
<https://www.hanno.com/en/the-company/our-mission-statement-hanno>

Explanations of Terms

Building Physics Principles

We provide some technical data for our products which are of great importance with regard to the building physics requirements for joint sealing. Below is a brief explanation of the terms.

Permanent airtightness

To ensure permanent airtightness, sealing products must fall below an a_n -value of $0.1 \text{ m}^3/(\text{h}\cdot\text{m}\cdot(\text{daPa})^{2/3})$ across the entire joint. This requirement does not correspond to 100 % airtightness, but places high demands on the tightness of the joint. If you compare the value with the tightness of windows, it is significantly lower than the required value of the tightest window class 4 according to DIN EN 12207. All HANNO products for internal sealing are also significantly lower than this value and thus guarantee even greater security.

It is important in this context that this value is still maintained when the connection joint becomes smaller or larger. These movements can be in the range of 5 mm. A movement absorption capacity of only approx. 2 mm is no longer sufficient for today's requirements.

Diffusion behaviour

For waterproofing, it is important to ensure coordinated diffusion behaviour between the individual waterproof layers. This also means that the principle "more diffusion-tight on the inside than on the outside" must be ensured. This can be done classically with an inner diffusion-tight layer or via moisture-variable products that adapt their diffusion behaviour to the loads. On the exterior, a diffusion-open sealing should be ensured; diffusion-inhibiting products can hinder the diffusion of moisture. The s_d value of the exterior waterproofing should be $< 0.5 \text{ m}$. On the interior, the s_d value should be higher. However, it is important that the internal diffusion behaviour of the waterproofing is oriented to the surrounding masonry. Thus, an extremely high s_d value is not necessarily useful in most cases and is not adapted to the classic masonry building materials. HANNO permanently adapts the waterproofing variants to the current requirements of the masonry and thus ensures optimal diffusion behaviour. In case of reversed temperature conditions, a variability of the diffusion behaviour of the internal waterproofing is advantageous.

Condensation resistance

Where diffusion processes occur or moisture is present in the building structure, there is also the possibility of condensation occurring in or on the joint seal, which in most cases is not a problem, as small amounts will dry out again without any problems. However, since sealing products come into contact with condensation water, it is imperative that they are tested for condensation water resistance. HANNO products are able to withstand these stresses and have been tested for this.

Resistance to driving rain

In the technical data, we always state the tested value for the resistance to driving rain of the individual products. The values given are backed up by current test certificates.

But what does 300 Pa, 600 Pa or even 1050 Pa mean? Like airtightness, these values are based on the DIN EN 12207 standard for windows and doors. For windows, the requirements are defined in DIN EN 12208. In tenders, mainly windows with class 7a are required for buildings up to 20 m high and class 9a for buildings up to 100 m high. Class 7a prescribes a resistance to driving rain of 300 Pa, class 9a of 600 Pa. In order to ensure safety here, DIN 18542 recommends a resistance to driving rain of more than 600 Pa for joints that are directly exposed to weathering. Individual HANNO products are also tested up to 1050 Pa within the scope of the requirement according to DIN EN 12208.

Thermal insulation/passive house suitability

An increasingly important topic in the field of joint sealing is thermal insulation or the requirements for thermal bridges in the connection joint area. In order to be able to evaluate the thermal insulation capacity, we specify the λ -value (thermal conductivity) for the products relevant for insulation, with which the U-value of the joint can be determined. The foams used by HANNO have a very low thermal conductivity on the market and thus achieve good thermal insulation. This is also reflected by the fact that the products of the Hanno®-Triple-Layer Joint Sealing System are suitable for passive houses and met the requirements defined for this purpose with regard to the thermotechnical consideration of the building connection of windows suitable for passive houses of the ift guideline WA 15-2 in an examination by Prof. H. P. Leimer of the BBS Institute in Wolfenbüttel.

→ Unit conversion, see page 46

Imperial Unit Conversion

The units in this catalogue are based on the metric system. Below is an overview of the corresponding temperature and pressure values.

Temperature (°C)	Temperature (°F)	Page
-30 to +100	-22 to 212	10, 13
+130	266	10, 13
-30 to +80	-22 to 176	14
-10 to +30	14 to 86	36
-40 to +80	-40 to 176	36
-10	14	36, 40, 41, 42
+5	41	39
+180	365	55
-40 to +85	-40 to 185	56

Pressure (Pa)	Pressure (Psf)	Page
50	1.04	24
300	6.27	14, 17, 18
600	12.53	6, 12, 13, 14, 17, 18, 28, 29, 30, 31, 39, 43, 44
1050	21.93	10, 22, 24, 26, 27, 28, 36, 38, 40, 41
9000	187.97	10

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You can find a complete overview of our trading partners in Germany and worldwide at <https://www.hanno.com/en/contact-us/contact-person-hanno>

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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