



CHEMISTRY BETWEEN US

INTEGRA SYSTEM

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AIB is the precursor of modern solutions in the construction industry. We started our company in 1992, focusing on the production of innovative finishing and insulation materials. The quality of the AIB brand is guaranteed thanks to the specialized training of company founders backed by over 20 years of experience, enabling us to offer proven solutions and high quality products. This is the basis of AIB's presence on the global market,

resulting in the introduction of a management system in accordance with EN ISO 9001:2008 and obtaining a wide range of product certifications. We would like to especially emphasize that, in addition to our standard offer, we design and implement solutions in accordance with the individual needs of customers.

Please check out our products and feel free to contact our Customer Service.

What makes us different?

- **Experience**
Gained over a period of 20 years, from a single production line to a plant employing over 100 people.
- **Technology**
Modern production lines and continuous efforts to optimize and automate the manufacturing process.
- **Innovation**
Own R&D Department and highly specialized staff allow us to pursue original ideas, and implement products according to customer specifications.
- **Quality**
Guaranteed by our modern laboratory and its management. The company owns the quality certificate ISO 9001:2008.
- **Logistics**
Perfectly organized transportation and logistics shorten delivery times to a minimum.

Integra System

Integra System is a modern and versatile solution for the installation of windows and doors in a way that ensures their tightness for many years. The system consists of a series of tapes made from high-quality materials, which are used interchangeably depending on the design of the door or window opening. Integra System minimizes thermal bridges and protects the window-wall connection against uncontrolled air flow while protecting it against moisture. This solution significantly extends the life of such a connection and ensures the proper functioning of window frames for many years.

Integra System tapes are laminates consisting of a polypropylene or polyester non-woven combined with a special

membrane, which ensures the appropriate value of the Sd coefficient, determining its vapour permeability. It should be emphasized that the proper selection of materials with the recommended values allows for the construction of the connection in accordance with the fundamental principle: "Tighter on the inside than on the outside."

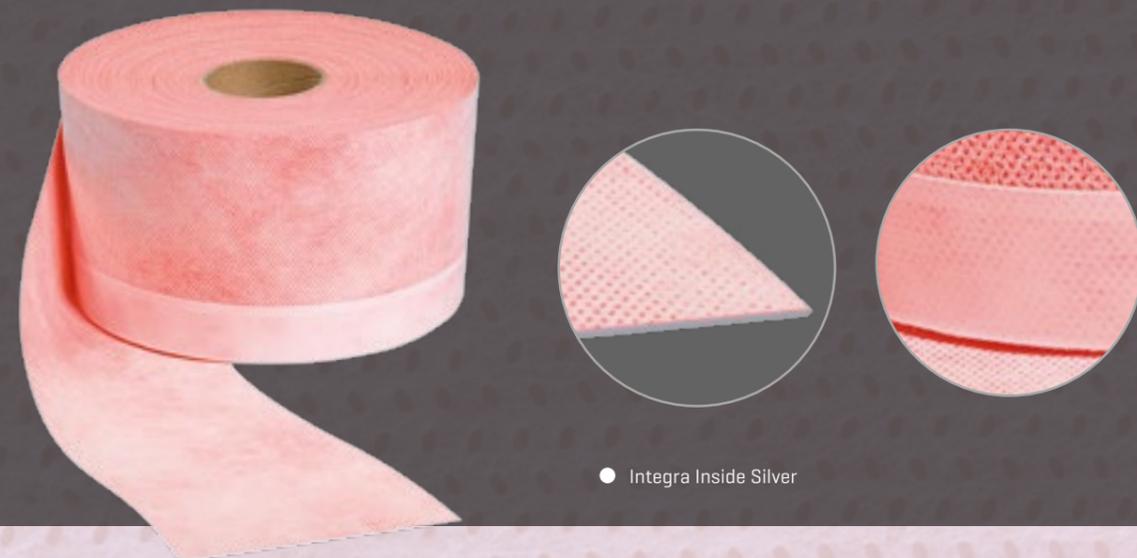
All Integra System products are equipped with an adhesive strip with a special Finger Lift option, which facilitates their application. Such a solution has been introduced as a response to customers' needs. Integra System tapes can be equipped with a butyl ribbon, with which they are fastened to the wall, which in turn allows to eliminate or reduce the need for extra adhesive.



Integra Inside – tape with high Sd coefficient ensuring vapour permeability, dedicated for the insulation of connections inside the building. The film is coated on both sides with special nonwoven fabric that provides optimal adhesion of the adhesive and makes plastering and final processing easier. Internal vapour-proof films do not allow the penetration of moisture from condensation into the joint and form a barrier for moisture which could penetrate into the room, causing the formation of mould and mildew.

Internal films are produced in several versions:

- **Integra Inside Silver** – with an adhesive strip for mounting to the window frame;
- **Integra Inside Gold** – with an adhesive strip for mounting to the window frame and a butyl ribbon to adhere to the wall;
- **Integra Inside Titanium** – with an adhesive strip for mounting to the window frame and net for plastering.



Specifications - vapour-tight membrane Integra Inside

Property	Standard	Results	
Water tightness	EN 1027	Class 9A	own testing
Vapour permeability	EN 12572	Sd ≥ 55 m	
Flammability class	EN 13501-1	B	
Adhesion of the adhesive tape	EN 1939	0,5 N/mm	
Tensile strength	EN 12311-3	≥ 7 Mpa	
Tear strength	EN 12311-3	≥ 50%	
Air permeability	EN 1026	class 4	
UV Resistance		1 year	
Shelf life		1 year	Storage in a dry place at a temperature of +1 to +25°C

Available widths	70 mm	100 mm	150 mm
Package – quantity per box	4 rolls	3 rolls	2 rolls
Quantity per pallet	480 rolls	360 rolls	240 rolls
Application temperature from +5 to +35°C	Individually packaged rolls are also available		

Integra Outside – tape dedicated to the insulation of the connection on the outside, made of a highly vapour-permeable membrane having a very low Sd coefficient. Thanks to the nonwoven fabric coating, it provides optimal adhesion of the adhesive and makes plastering and final processing easier. External films are designed to protect the window-wall connection against the ingress of rain water and allow drainage of moisture from the connection to the outside of the building. In addition, they provide an excellent

barrier to wind, increasing the quality of the joint constructed. Internal films are produced in several versions:

- **Integra Outside Silver** – with an adhesive strip for mounting to the window frame;
- **Integra Outside Silver** – with an adhesive strip for mounting to the window frame and a butyl ribbon to adhere to the wall.

Please note that the external films should be covered within a maximum of 3 months from the date of installation.



● Integra Outside Silver

Specifications - vapour-open membrane Integra Outside

Property	Standard	Results	
Water tightness	EN 1027	Class 9A	own testing
Vapour permeability	EN 12572	Sd ≤ 0,07 m	
Flammability class	EN 13501-1	B	
Adhesion of the adhesive tape	EN 1939	0,5 N/mm	
Tensile strength	EN 12311-3	≥ 6 Mpa	
Tear strength	EN 12311-3	≥ 60%	
Air permeability	EN 1026	class 4	
UV Resistance		3 months	
Shelf life		1 year	Storage in a dry place at a temperature of +1 to +25°C

Available widths	70 mm	100 mm	150 mm
Package – quantity per box	4 rolls	3 rolls	2 rolls
Quantity per pallet	480 rolls	360 rolls	240 rolls
Application temperature from +5 to +35°C	Individually packaged rolls are also available		



● Integra Outside Gold Single Sided



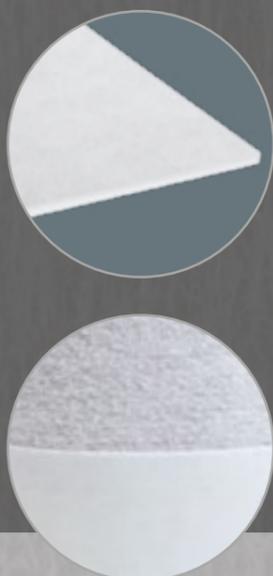
● Integra Outside Gold Double Sided

Integra Vario – tape based on a special smart membrane with a variable value of Sd, which makes it a versatile solution for both internal and external applications. This eliminates the possibility of errors during application of the film. These films are made in two versions:

- **Integra Vario Silver** – with an adhesive strip for mounting to the window frame;
- **Integra Vario Gold** - with an adhesive strip for mounting to the window frame and a butyl ribbon to adhere to the wall.



● Integra Vario Silver



Specifications – universal tape Integra Vario

Property	Standard	Results	
Water tightness	EN 1027	Class 9A	own testing
Vapour permeability	EN 12572	Sd from 1,05 to 12 m	
Flammability class	EN 13501-1	B	
Adhesion of the adhesive tape	EN 1939	0,5 N/mm	
Tensile strength	EN 12311-3	≥ 6 Mpa	
Tear strength	EN 12311-3	≥ 60%	
Air permeability	EN 1026	class 4	
Odporność na UV		3 months	
Shelf life		1 year	Storage in a dry place at a temperature of +1 to +25°C

Available widths	70 mm	100 mm	150 mm
Package – quantity per box	4 rolls	3 rolls	2 rolls
Quantity per pallet	480 rolls	360 rolls	240 rolls
Application temperature from +5 to +35°C	Individually packaged rolls are also available		



● Integra Vario Gold Single Sided



● Integra Vario Gold Double Sided



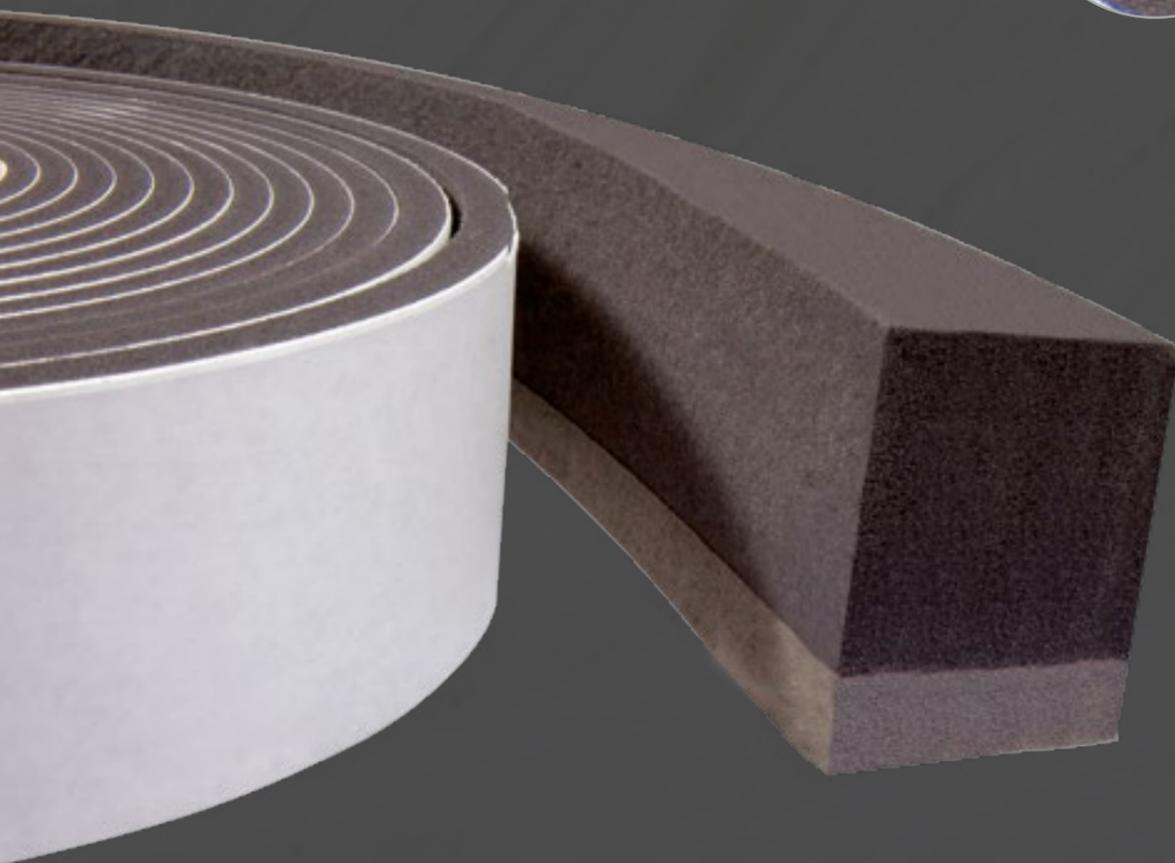
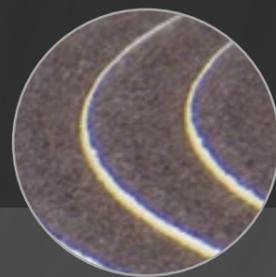
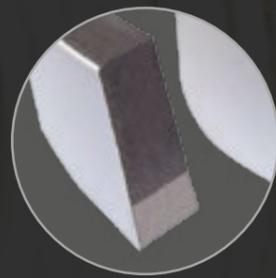
Integra Chrome – compressed and impregnated multi-purpose tape used for the insulation of the connection between the window and the wall. This product fully eliminates the need for traditional PU foam, meeting all the requirements for a proper and tight window assembly system.

The product is available in a combination of widths and thicknesses, which allows its use in virtually any grout, in connection with all thicknesses of window profiles. Instal-

lation itself is very simple and clean, which has a large impact on the aesthetics of the connection. The product is supplied in rolls with the adhesive layer on one side of the tape. Integra Chrome is available in one colour combination: grey/black. The tape should be mounted with the grey part to the inside, and the black side facing outside. Each package contains more detailed installation instructions.



● Integra Chrome



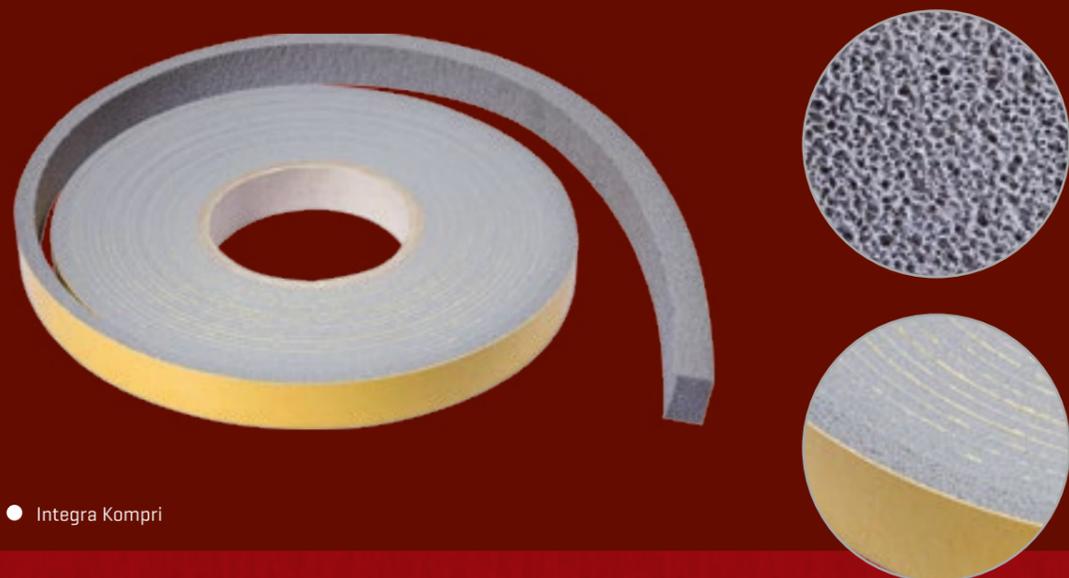
Specifications – Integra Chrome

Property	Standard	Results	
Water tightness	EN 1027	Class 9A	own testing
Vapour permeability	EN 12572	Sd tighter on the inside than on the outside	
Flammability class	EN 13501-1	E	
Thermal conductivity coefficient	EN 12667	$\lambda \leq 0,0428 \text{ W/m}^2\text{K}$	
Air permeability	EN 1026	class 4	
Shelf life		1 year	Storage in a dry place at a temperature of +1 to +25°C

Available widths	64 mm	74 mm	84 mm
Package – quantity per box	4 rolls	4 rolls	3 rolls
Application temperature from +5 to +35°C	Pre-cool the product at a temperature of above 20 degrees		

Integra Kompri – self-expanding, open cell, impregnated tape based on polyurethane foam. The product is coated with an acrylic adhesive on one side. It does not contain plasticizers. It is supplied in the form of compressed rolls in bulk packaging. This type of tape is most common-

ly used as a seal between the window and the jamb. It is used in particular for renovations and repairs, when the window opening is already plastered. Integra Kompri is offered in three classes: BG1, BG2 and DB.



● Integra Kompri

Specifications – Integra Kompri BG1

Property	Standard	Results
Density		120 kg/m ³
Water tightness	EN 86	no leaks at 600 Pa
Flammability class	DIN 4102	B1
Tensile strength		170 kPa
Tear strength		170%
Air permeability	EN 42	≤ 0,01 m ³ /h * m * [daPa]n
Temperature resistance		-40°C to +100°C [+130°C for a short period of time]

Dimensions

Size	Joint	Thickness	m/roll	rolls/box	m/box
10/2	2 - 3 mm	10 mm	12,5	30	375
15/3	3 - 4 mm	15 mm	10	20	200
15/6	6 - 9 mm	30 mm	5,6	20	112
20/4	4 - 6 mm	20 mm	8	15	120
20/6	6 - 9 mm	30 mm	5,6	15	84

Specifications – Integra Kompri BG2

Property	Standard	Results
Density		80 kg/m ³
Water tightness	EN 86	no leaks at 300 Pa
Flammability class	DIN 4102	B1
Tensile strength		170 kPa
Tear strength		170%
Air permeability	EN 42	≤ 0,01 m ³ /h * m * [daPa]n
Temperature resistance		-40°C to +100°C [+130°C for a short period of time]

Dimensions

Size	Joint mm	Thickness mm	m/roll	rolls/box	m/box
10/2	2 - 3	10	12,5	30	375
10/3	3 - 4	15	10	30	300
10/4	4 - 6	20	8	30	240
15/2	2 - 3	10	12,5	20	250
15/3	3 - 4	15	10	20	200
15/4	4 - 6	20	8	20	160
15/6	6 - 9	30	5,6	20	112
15/8	8 - 12	40	4,3	20	86
20/4	4 - 6	20	8	15	120
20/6	6 - 9	30	5,6	15	86
30/12	12 - 20	60	2,6	10	26

Specifications – Integra Kompri DB

Property	Standard	Results
Density		50 kg/m ³
Water tightness	EN 86	no leaks at 300 Pa
Flammability class	DIN 4102	B1
Tensile strength		155 kPa
Tear strength		170%
Air permeability	EN 42	≤ 0,01 m ³ /h * m * [daPa]n
Temperature resistance		-40°C to +100°C [+130°C for a short period of time]

Dimensions

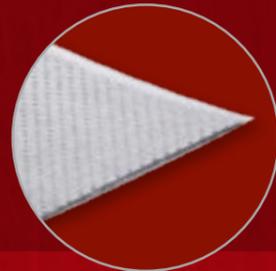
Size	Joint mm	Thickness mm	m/roll	rolls/box	m/box
10/2-3	2 - 3	10	12,5	30	375
10/3-4	3 - 4	15	20	30	600
15/3-4	3 - 4	15	20	30	600
15/3-7	3 - 7	20	15	20	300
15/5-8	5 - 8	25	12	20	240
15/5-10	5 - 10	30	10	20	200
20/5-10	5 - 10	30	10	15	150
20/7-12	7 - 12	40	8	15	120
20/10-16	10 - 16	50	6	15	90

The range of internal materials also includes tapes B1 and B2.

Fleece butyl tape B1 – nonwoven fabric butyl-coated over the entire width. It is a perfect solution as a seal at the bottom of windows or additional corner insulation. Thanks to the butyl, the possibility of forming the connection definitely increases while very good tightness and ease of installation is maintained.



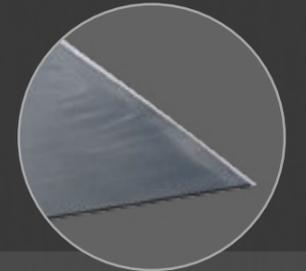
● Integra B1



Aluminium butyl tape B2 – tape coated with a layer of aluminium on one side and butyl on the other side. It is an ideal solution for internal seals, for example, in aluminium structures, conservatories, etc. When installing windows and doors, which have high requirements for air tightness, the film can be used interchangeably with B1 film.



● Integra B2



Specifications – Fleece butyl tape B1

Property	Standard	Results	
Water tightness	EN 1027	Class 9A	own testing
Vapour permeability	EN 12572	Sd 1000 m	own testing
Flammability class	EN 13501-1	E	own testing
Adhesion of butyl	EN 1939	2 N/mm	
Tensile strength	EN 12311-3	≥ 2 Mpa	
Tear strength	EN 12311-3	≥ 70%	
Air permeability	EN 1026	class 4	own testing
Shelf life		1 year	Storage in a dry place at a temperature of +1 to +25°C

Available widths	75 mm	100 mm	150 mm
Package – quantity per box	1 roll	1 roll	1 roll
Quantity per pallet	144 rolls	120 rolls	96 rolls

Application temperature from +5 to +35°C

Specifications – Aluminium butyl tape B2

Property	Standard	Results	
Water tightness	EN 1027	klasa 9A	own testing
Vapour permeability	EN 12572	Sd ≥ 1500 m	
Flammability class	EN 13501-1	E	own testing
Adhesion of butyl	EN 1939	2 N/mm	
Tensile strength	EN 12311-3	≥ 3 Mpa	
Tear strength	EN 12311-3	≥ 30%	
Air permeability	EN 1026	class 4	own testing
Shelf life		1 year	Storage in a dry place at a temperature of +1 to +25°C

Available widths	50 mm	70 mm	100 mm
Package – quantity per box	1 roll	1 roll	1 roll
Quantity per pallet	144 rolls	144 rolls	120 rolls

Application temperature from +5 to +35°C

Integra EPDM – membranes made of EPDM are used primarily for insulation in façades made from aluminium, in particular ventilated façades. In residential and single-family housing, it is used as external insulation for all types of balcony, patio and entrance doors. It is an ideal protection

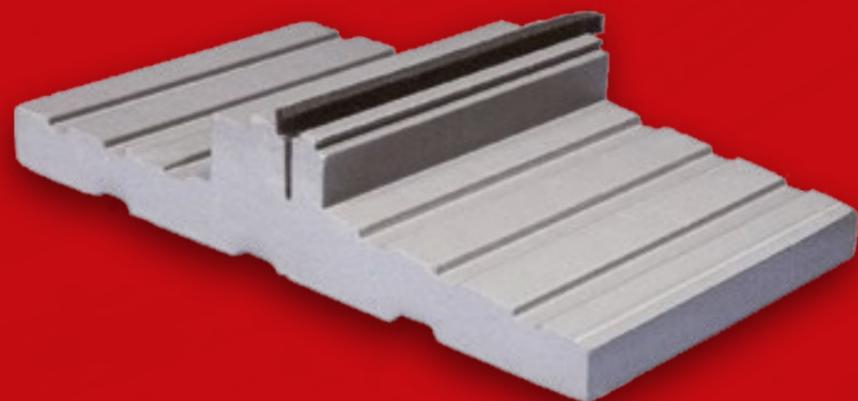
of the bottom of the connection against the ingress of water. Using the EPDM membrane, both indoor and outdoor, be sure to choose the right type of membrane and differentiate the Sd coefficient. EPDM having a higher coefficient is used for the insulation of the connection inside the room.



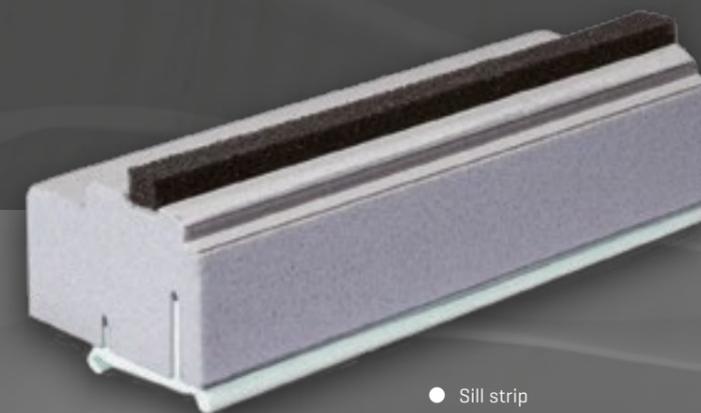
● Integra EPDM

Sill block – an additional product for the system is a sill block, made of XPS. It is the perfect solution ensuring a rigid and durable support for the window itself and for the external and internal sill, while maintaining excellent tightness of the joint. These elements are produced for a specific window profile with a fitting lock coupling. In addition,

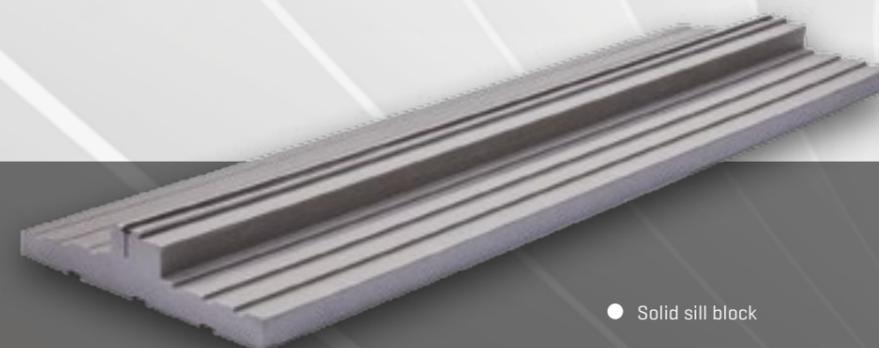
they feature expansion sealing tape and a strip made of polyvinyl chloride, to facilitate mounting of the external sill. Supplementary profiles, such as blocks for under the doors, support mouldings and hollow blocks are equipped with a special strip to allow attaching an additional anchor that stabilizes the mechanical connection to the wall.



● Balcony door block

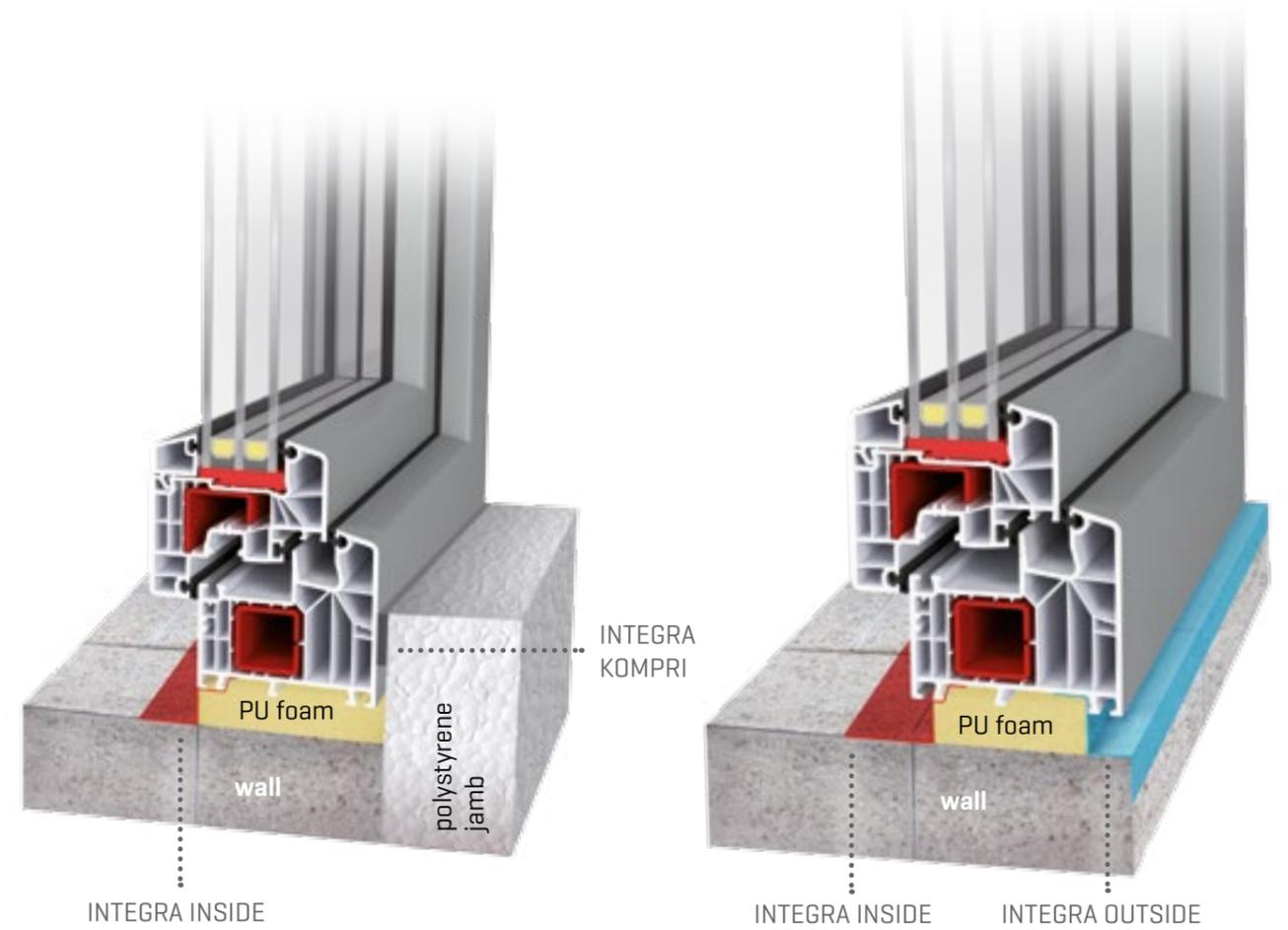
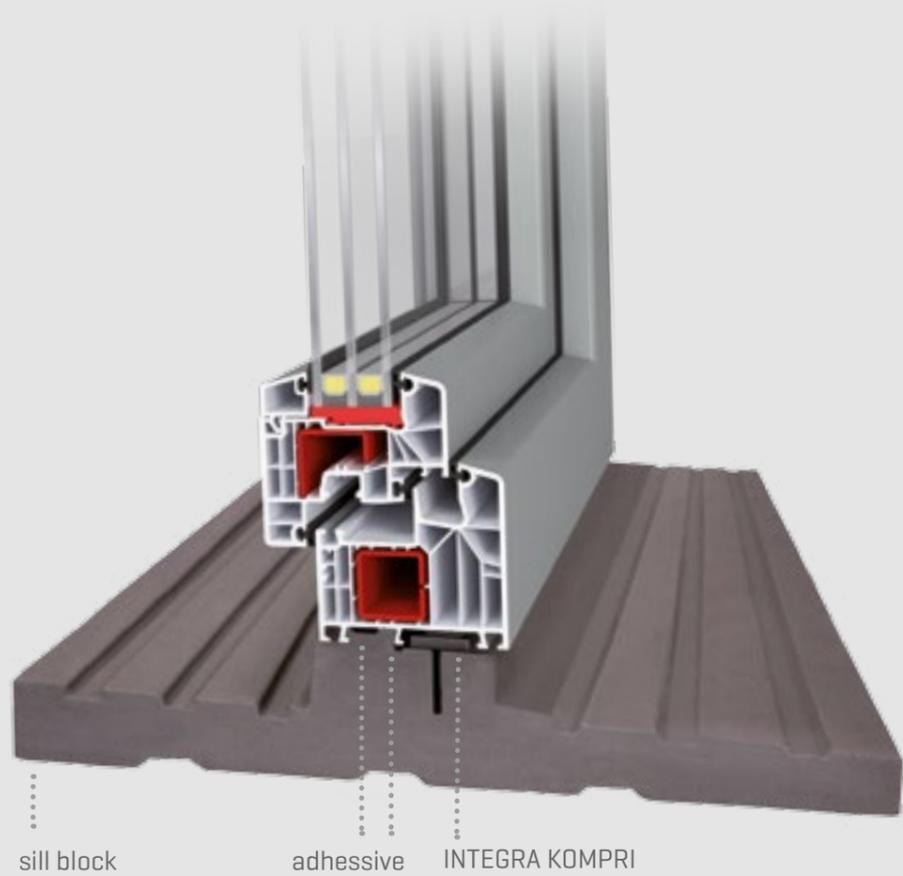
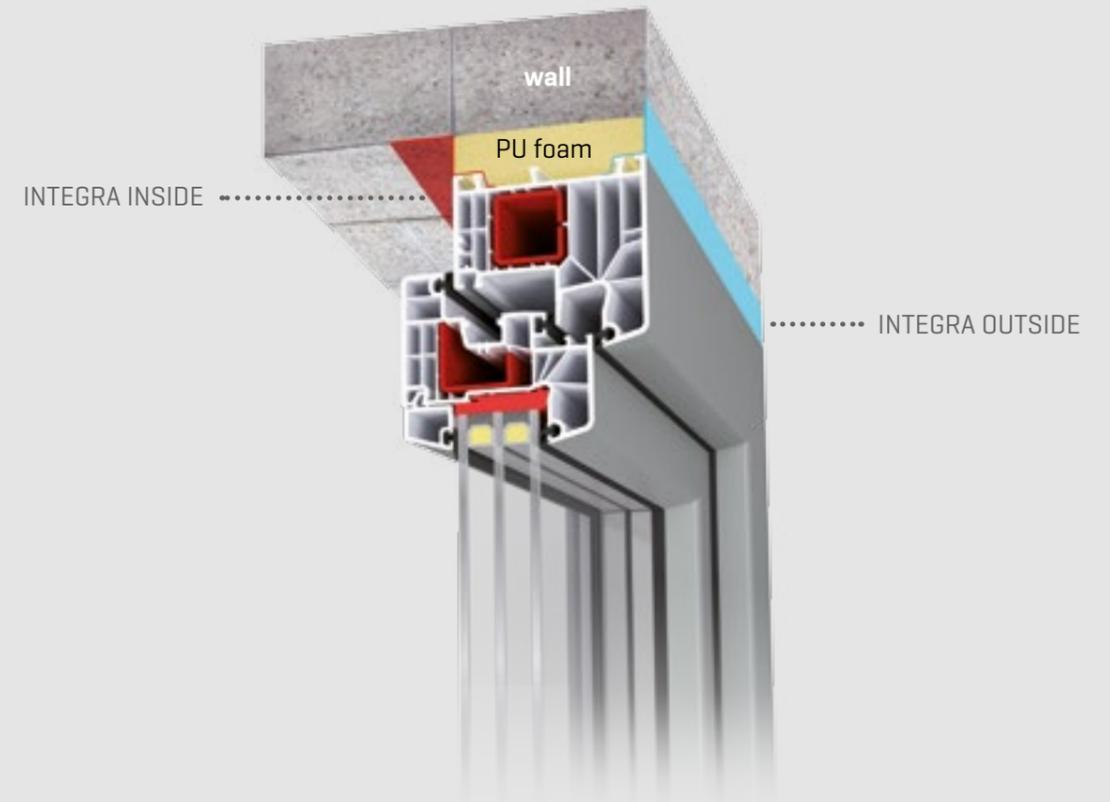
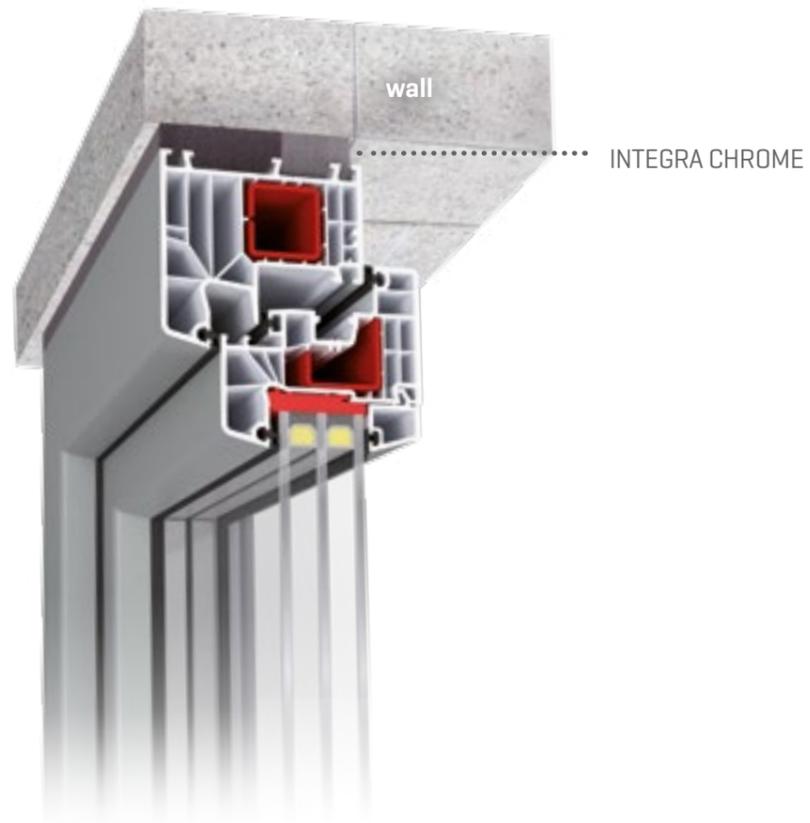


● Sill strip



● Solid sill block

Methods of using INTEGRA SYSTEM products in window installation



Window bracket system

Mounting brackets offered by AIB enable the professional assembly of windows and doors in the insulation layer. Its placement in this location in the overall wall structure provides the best thermal performance of the connection and is particularly recommended for energy-efficient and passive buildings. A very wide range of brackets allows to use the system in virtually every building and window system, made both of PVC, wood or aluminium. Brackets enable to offset the window relative to the supporting wall by a few inches – the maximum distance from the support point to the wall is 17.5 cm.

The system was designed for functionality and ease of use by joinery installers. All the elements are designed so that their assembly uses a minimum amount of additional materials. A 7.5 mm mounting screw can be used here both as a connector of the window frame to the brackets or the side or top brackets, and in connection with a suitable self-tapping screw, with which the bracket is attached to load-bearing walls.

The recommended self-tapping screw – SX 10x80 from Fischer – allows installation in a variety of construction materials, from aerated concrete to clay tile. The same type of screw is also used to connect system components, such as load-bearing brackets and the support rail used to mount the bottom supports in clay perforated bricks.

The system offered by AIB has been tested by the IFT Institute in Rosenheim. Additional elements of the system guarantee a very stable installation of:

- Patio doors on threshold widening systems,
- Windows with top mounted roller shutters,
- External sills without the need for insulation.

Diagram of the installation of windows and doors, taking into account perpendicular forces acting on the joinery (wind pressure and suction)

Points and distances in which mechanical fastening elements should be mounted

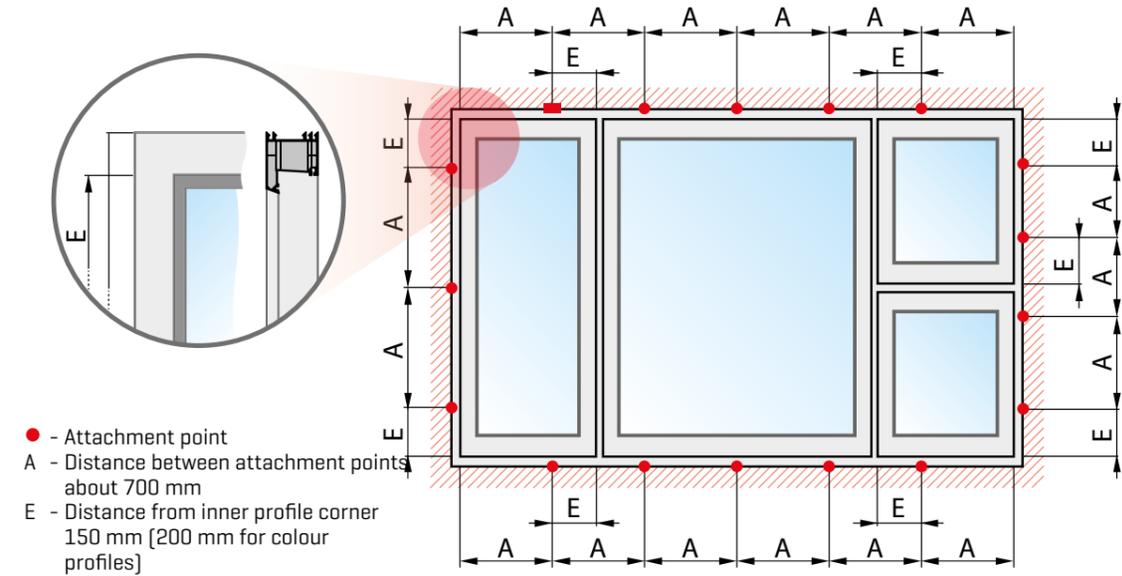
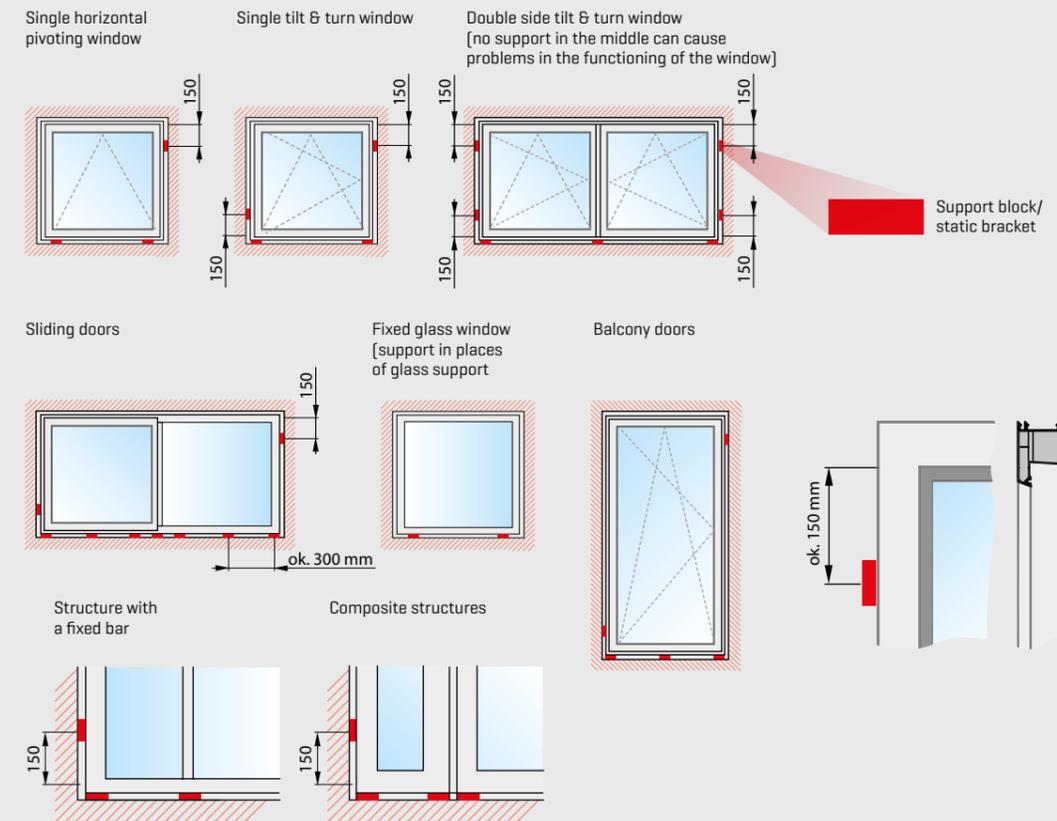


Diagram of window and door support taking into account forces acting on the window plane (weight of the window and operating load)

Static brackets replace support blocks





● SFK Bracket



● EL Bracket



● WM Bracket



Basic version brackets – flat

The basic range of flat brackets for mounting in a window frame consists of the following products: EL version without adjustment, WM and WU brackets with stepless adjustment from the outside of the window, SFK variant that enables assembly in the case there is no access to the window from the inside [e.g. in a three-layer wall already with wall insulation and the outer wall], as well as WU-ST brackets, which make it possible to pull out the joinery up to 175 mm.

Angle brackets [assembly completely in wall insulation]

Brackets designed specifically for passive houses. They are installed completely in the layer of insulation. This increases considerably the thermal qualities of the connection, eliminating the possibly adverse freezing to the inside of the building.

Special bracket for mounting with multifunction tape Integra Chrome

Special EL version of the bracket. Completely flat, intended for use with Integra Chrome tape. Guarantees a true and lasting mechanical assembly of the window faced with the wall or gently retracted into the layer of insulation.



● EL Flat Bracket



● WU Bracket



● FMW Bracket



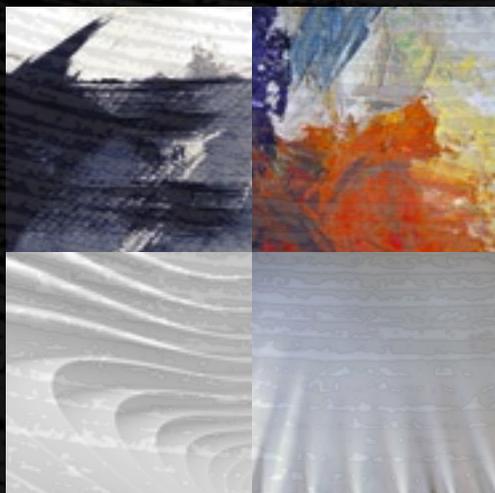
● support rail



● WU-ST Angle Bracket



● WS Angle Bracket



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NATIONAL COHESION STRATEGY



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