



PRODUCT CATALOGUE
PROFESSIONAL BUILDING PRODUCTS
2018

WINDOW & DOOR



WINDOW & DOOR

Professional window and door installation with the Tytan Professional Systems:

- Reduction of thermal bridges and energy saving, sound and thermal insulation which improve the comfort of living
- Preserving the continuity of insulation which prevents the formation of mold inside buildings
- Professional products which ensure high performance standards and the on-time completion of the installation

The basic material used for window and door installation in the majority of systems, is polyurethane foam. Selena, by offering the widest portfolio of foam products, has become one of the market leaders by creating new trends and by setting high quality standards in joinery. Selena was the first company to introduce the innovative, high yield technology – Tytan 65 Foam, which remarkably facilitated and quickened the installation process. Other innovations by Selena include, among others, ICE 65, Energy 2020 and Low MDI foams. Foams by Selena hold O₂ and M1 certificates which ensures the safety in use of these products.



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Owing to its own research and development achievements, Selena introduced the unique formulas for foams dedicated for various climate zones and construction technologies, Selena Group is the third largest polyurethane foam producer in the world, with six production plants in Poland, Turkey, China, South Korea and Brazil.

All Selena products are developed in close cooperation with window and door installers and tested to perfection in compliance with the latest standards in the international laboratories and certification centers.

The window and wall connection is one of the most sensitive areas causing the heat losses of buildings. The heat losses generated by leaky joinery can amount to 25%. Windows installed with the use of Tytan Professional systems ensure not only the energy savings but also a permanent comfort of living for long years. Selena offers systems dedicated for various installation technologies and for various types of windows and doors.





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PRO Energy System

Classic Tytan Window System

The window installation with the reveal

Outer door installation – threshold insulation

PRO Energy System – window in the thermal insulation

% Heat loss



ProENERGY
SYSTEM

To reduce heat loss from the building you should not only ensure the selection of energy-efficient windows (with best U coefficient), but also correct installation and the use of high quality materials to insulate joint around the window. By using Tytan Window System we reduce the occurrence of fungi, mold and thermal bridges. The main three benefits of Tytan Window System are:

- Dry window without humidity, fungi and mold – common causes of allergies and diseases
- Excellent thermal insulation of installed window – cold air does not penetrate into the house, warm air does not escape from the house
- Perfectly tight seal around installed window – minimizes escape of warm air from the room, which reduces the need for heating and lowers heating bills

What is thermal bridge ?

An element of partition with much higher thermal conductivity ratio than the adjacent elements. Due to the temperature differences between the inside and the outside of a building, the point-cooling of the partition takes place. The thermal bridge leads to the intensified, uncontrolled heat outflow.

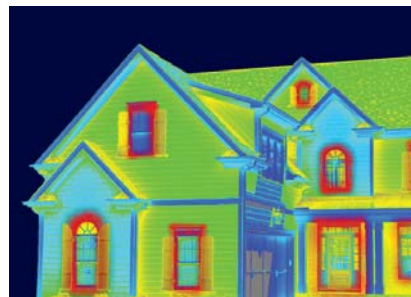
The consequences of the forming of thermal bridges are extremely inconvenient and cause a lot of problems, such as the following:

- an uncontrolled heat outflow, which leads to the excessive consumption of energy which affects the heat balance of the building
- the cooling of outer walls which may lead to an increased moisture content due to vapor condensation. This, in turn often results in the appearance of mold and fungi, which have a detrimental effect on human health
- serious damage may be incurred to the construction elements

Thermal Bridges form in the following places:

- roof and outer wall connection
- area where windows are fitted
- balcony and floor connection
- tie beams and lintels
- basement walls and basement ceilings top rims

Without PRO Energy System



With PRO Energy System



PRO Energy System – window in the thermal insulation

The installation of the window on the wall surface is the most energy-efficient solution. In this technology thermal bridges are reduced, the isotherm is transferred outside the building. In this technology it must be kept in mind not to double the outer vapor-permeable insulation. The objective is to preserve the continuity of insulation and not to double it. We should avoid changing it from the vapor-permeable into the vapor-tight one. The stability of the structure is ensured by mechanical supports, consoles or external installation profiles.

In order to increase the efficiency of installation work for fixing polystyrene shapes we recommend Tytan Professional 60 Seconds Fast Foam Adhesive.

ProENERGY SYSTEM



Classic Tytan Window System

The application of layered installation which ensures tight mechanical connections, is essential for the proper window and door fitting. The application of the warm sill allows to reduce thermal bridges in the most sensitive place of the installation. The air-tightness of the sill elements, which are not covered with a reveal or insulated, should be provided.



The window installation with the reveal

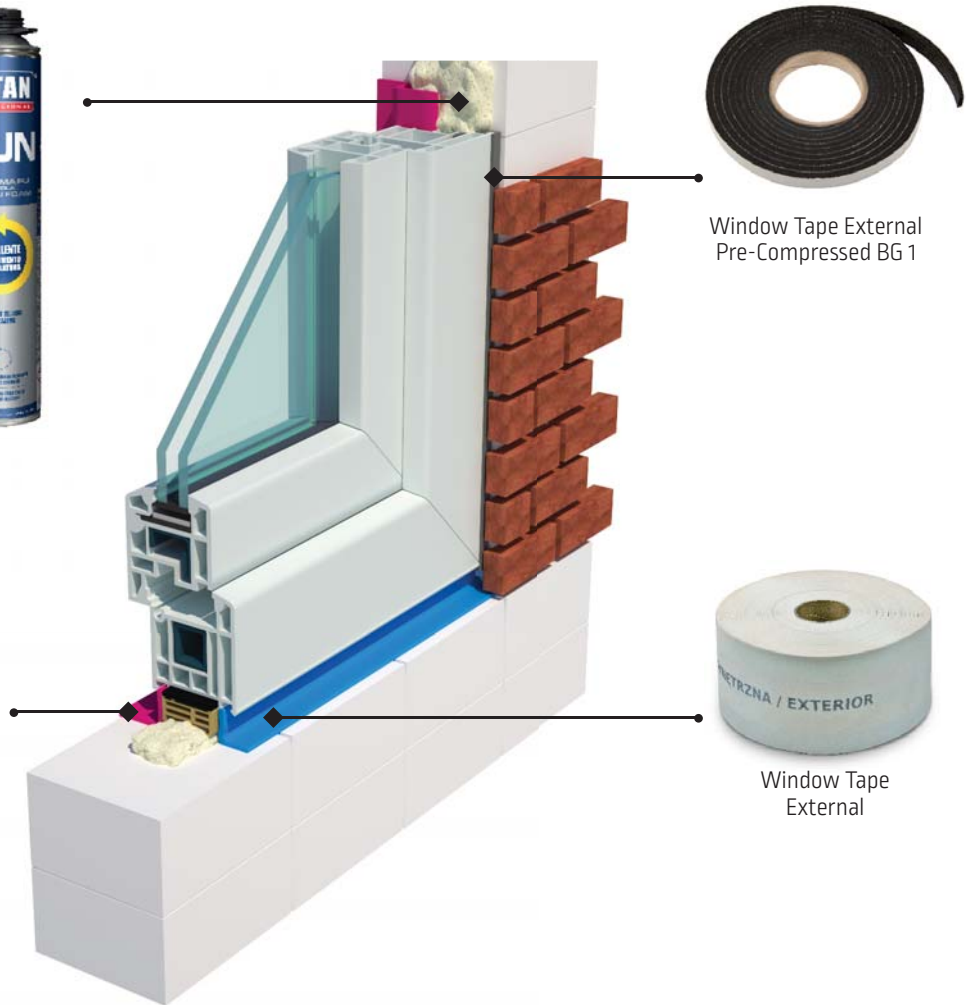
This technology is applied when windows have to be exchanged in the spots where the window frame comes in contact with the outer wall or insulation. The crucial part of the installation is ensuring proper tightness of the connection of the frame and the reveal.



65 PU Gun Foam
Low Ex PU Gun Foam
PU Gun Foam



Window Tape
Internal



Window Tape External
Pre-Compressed BG 1



Window Tape
External



Outer door installation – threshold insulation

The entry door threshold is one of the most sensitive places which requires an elastic, durable sealing. By applying the hybrid adhesive for EPDM membranes we fix the membrane and at the same time create a permanent moisture barrier.



Ice 65

Winter Gun Polyurethane Foam



High-quality gun polyurethane foam offering the highest yield – up to 65 l, and low post-expansion. The product was especially developed for winter conditions and can be applied from a can as cold as -5°C.

APPLICATIONS:

- Mounting of windows
- Thermal and acoustic insulation
- Filling and sealing cracks, gaps and pipe ducts

BENEFITS:

- High yield – up to 65 l
- Can be applied from a cold can – from -5°C
- Short curing time
- Low post-expansion
- Low pressure formulation (prevents bowing of door and window frames)
- Does not emit MDI vapours during application**
- M1 emission class for building material***

TECHNICAL PARAMETERS:

- Yield: up to 65 l
- Cutting time: ≤ 30 min
- Application temperature: -20°C to +30°C
- Can temperature: -5°C to +30°C
- Shelf life: 12 months

** The lack of MDI emission was certified by SP Proving Forskning Swedish Institute.
 *** Product classified by The Building Information Foundation RTS as M1 building material class. Once cured, it does not emit any hazardous substances.
 All communicated parameters were measured in compliance with Selena's internal standards and depend heavily on external curing conditions, equipment quality and adherence to application instructions.
 The parameters were measured in standard laboratory conditions +23°C and 50% RH.

Product name	Content	Packaging	Pieces per box	Pieces per pallet
Ice 65	750 ml	Can	12	624

65

Summer & Winter Gun Polyurethane Foam



High-quality gun polyurethane foam offering the highest yield – up to 65 l and low post-expansion.

APPLICATIONS:

- Mounting of windows
- Thermal and acoustic insulation
- Filling and sealing cracks, gaps and pipe ducts

BENEFITS:

- High yield – up to 65 l
- Acoustic insulation up to 61 dB (certified by IFT Rosenheim)
- Short curing time
- Low post-expansion
- Low pressure formulation (prevents bowing of door and window frames)
- Does not emit MDI vapours during application**
- M1 emission class for building material***

TECHNICAL PARAMETERS:

- SUMMER FOAM:**
- Yield: up to 65 l
 - Cutting time: ≤ 30 min
 - Application temperature: +5°C to +30°C
 - Can temperature: +10°C to +30°C
 - Shelf life: 18 months
- WINTER FOAM:**
- Yield: up to 65 l
 - Cutting time: ≤ 30 min
 - Application temperature: -20°C to +30°C
 - Can temperature: +5°C to +30°C
 - Shelf life: 12 months

** The lack of MDI emission was certified by SP Proving Forskning Swedish Institute.
 *** Product classified by The Building Information Foundation RTS as M1 building material class. Once cured, it does not emit any hazardous substances.
 All communicated parameters were measured in compliance with Selena's internal standards and depend heavily on external curing conditions, equipment quality and adherence to application instructions.
 The parameters were measured in standard laboratory conditions +23°C and 50% RH.

Product name	Content	Packaging	Pieces per box	Pieces per pallet
65	750 ml	Can	12	624

Energy 2020

Gun Polyurethane Foam



Innovative gun polyurethane foam which eliminates thermal bridges efficiently and permanently. It reduces heat loss in joinery insulation by up to 60%*. Perfect solution for energy-efficient buildings.

APPLICATIONS:

- Perfect for mounting energy-efficient windows and doors
- Filling in places prone to thermal bridging

BENEFITS:

- Reduces heat loss in joinery insulation up to 60%*
- Dense, homogeneous structure
- Fast cutting time: ≤ 30 min
- Low pressure foam – prevents bowing of window & door frames
- Acoustic insulation: up to 64 dB
- All-season – application temperature: -10°C to +35°C
- Does not emit MDI during application**

TECHNICAL PARAMETERS:

- Heat transfer coefficient: $U \leq 0,5 \text{ W/m}^2\text{K}$
- Air permeability: class 4 (1 200 Pa)
- Air permeability coefficient: $a < 0,01 \text{ m}^3/(\text{m}^2 \cdot \text{h} \cdot \text{daPa}^2/3)$
- Water tightness: class E 1800 Pa
- Water vapour permeability μ : 16
- Yield: up to 45 l
- Cutting time: ≤ 30 min
- Application temperature: -10°C to +35°C
- Can temperature: +5°C to +30°C
- Shelf life: 18 months

* Value based on theoretical calculations regarding energy efficiency of insulation between window frame and wall completed with Energy 2020 PU foam versus standard foams of Selena Group: ITB report number 02207/13/ZOONF. Should not be associated with the energy efficiency of the entire building. More information available in technical documentation.
 ** The lack of MDI emission was certified by SP Proving Forskning Swedish Institute.
 *** Product classified by The Building Information Foundation RTS as M1 building material class. Once cured, it does not emit any hazardous substances. All communicated parameters were measured in compliance with Selena's internal standards and depend heavily on external curing conditions, equipment quality and adherence to application instructions. The parameters were measured in standard laboratory conditions +23°C and 50% RH.

Product name	Content	Packaging	Pieces per box	Pieces per pallet
Energy 2020	750 ml	Can	12	624

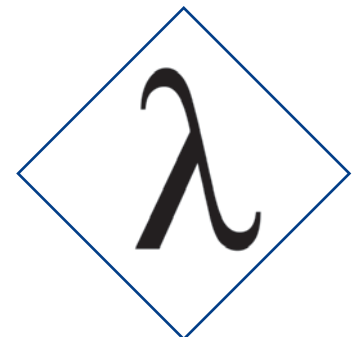
Lambda

The heat conductivity coefficient (λ), is the key parameter of thermal insulation efficiency for construction and insulation materials. It is given in W/mK. The heat transfer coefficient (U) defines thermal insulation capacity in the partition (wall, roof, flooring) of a given thickness (d). It is expressed in $\text{W/m}^2\text{K}$ units, since $U = \lambda/d$. The U coefficient is defined as the amount of heat transferred during 1 h through 1 m^2 of the flat partition (wall, window etc.) when the difference between inside and outside temperature measured on both sides of the partition is 1 K (1°C).

It should be clearly stated that the lower the U coefficient the higher thermal insulation capacity of the partition. The U coefficients are calculated separately for walls, windows, etc., never for walls with windows as a whole.

An example of the impact of the quality of window installation on the heat transfer coefficient:

- A window of $U_w = 1,0$, correctly fitted reaches the U_w coefficient of 1,05 to 1,1 (5% to 15% higher).
- Passive window of $U_w = 0,7$, incorrectly fitted reaches the U_w coefficient of 1,2 (even 70% more than originally).
- In conclusion, even the most energy efficient passive window fitted incorrectly has lower insulating capacity (over the whole surface of the opening) than an average window which is correctly fitted.
- The reduced value of the U coefficient is directly related to the reduction of thermal bridges obtained as a result of proper installation.



What should private customer focus on when comparing windows on offer?

1. Every window has its own heat transfer coefficient (U_w) related to its size and quality. Different windows = different heat transfer coefficients.
2. The larger the window the better its U_w coefficient and vice versa. This is due to the fact that glass and frame have different values of the heat transfer coefficient. In other words, more glass = warmer window, but not vice versa.
3. It is prerequisite that windows are installed in compliance with technological guidelines (e.g. RAL, Hadamar or the guidelines issued by the Institute of Construction Technologies in Warsaw) in order to utilize 100% of their thermal insulating capacities.

Multi Protection Low MDI Gun Polyurethane Foam

Gun polyurethane foam designed for a wide range of sealing and filling applications. A special formula offers increased health protection based on three unique features: low MDI content, no MDI emission during application and after cure.

APPLICATIONS:

- Mounting of doors and windows
- Filling and sealing cracks, gaps and pipe ducts
- Sealing of frame structures

BENEFITS:

- Monomeric MDI content below 1%
- High thermal insulation
- Compact structure
- Resistant to moulds and fungi growth
- Low pressure formulation (prevents bowing of door and window frames)
- Does not emit MDI during application**
- M1 emission class for building material***

TECHNICAL PARAMETERS:

- Yield: up to 20 l
- Cutting time: ≤ 40 min
- Application temperature: +15°C to +30°C
- Can temperature: +15°C to +30°C
- B2 Fire rating class (DIN 4102-1)
- Shelf life: 12 months



** The lack of MDI emission was certified by SP Proving Forskning Swedish Institute.
 *** Product classified by The Building Information Foundation RTS as M1 building material class. Once cured, it does not emit any hazardous substances.
 All communicated parameters were measured in compliance with Selenia's internal standards and depend heavily on external curing conditions, equipment quality and adherence to application instructions.
 The parameters were measured in standard laboratory conditions +23°C and 50% RH.

Product name	Content	Packaging	Pieces per box	Pieces per pallet
Multi Protection	500 ml	Can	12	980

Low Expansion Summer & Winter Gun Polyurethane Foam

High quality gun polyurethane foam, characterized by a low volume growth (30–60%), low pressure formulation and increased yield up to 55 l.

APPLICATIONS:

- Mounting of doors and windows
- Filling and sealing cracks and gaps of different size
- Thermal insulation for water and sewage networks, central heating systems

BENEFITS:

- Precise application and controlled gap filling
- Low pressure formulation (prevents bowing of door and window frames)
- Thick, compact structure that ensures better thermal insulation and stronger adhesion to building materials
- Acoustic insulation up to 60 dB (certified by IFT Rosenheim)
- Does not emit MDI during application**
- M1 emission class for building material***

TECHNICAL PARAMETERS:

SUMMER FOAM:

- Yield: up to 55 l
- Cutting time: ≤ 40 min
- Application temperature: +5°C to +30°C
- Can temperature: +10°C to +30°C
- Shelf life: 18 months

WINTER FOAM:

- Yield: up to 65 l
- Cutting time: ≤ 30 min
- Application temperature: -10°C to +30°C
- Can temperature: +5°C to +30°C
- Shelf life: 12 months



** The lack of MDI emission was certified by SP Proving Forskning Swedish Institute.
 *** Product classified by The Building Information Foundation RTS as M1 building material class. Once cured, it does not emit any hazardous substances.
 All communicated parameters were measured in compliance with Selenia's internal standards and depend heavily on external curing conditions, equipment quality and adherence to application instructions.
 The parameters were measured in standard laboratory conditions +23°C and 50% RH.

Product name	Content	Packaging	Pieces per box	Pieces per pallet
Low Expansion	750 ml	Can	12	624

Gun

Summer & Winter Polyurethane Foam



High quality gun polyurethane foam with a perfect structure and high density, designed for professional mounting of windows and doors.

APPLICATIONS:

- Mounting of doors and windows
- Filling and sealing cracks, gaps and pipe ducts
- Sealing of frame structures

BENEFITS:

- High thermal insulation
- Short curing time
- Compact structure
- Resistant to moulds and fungi growth
- Low pressure formulation (prevents bowing of door and window frames)
- Does not emit MDI during application**
- M1 emission class for building material***

TECHNICAL PARAMETERS:

SUMMER FOAM:

- Yield: up to 45 l
- Cutting time: ≤ 40 min
- Application temperature: 0°C to +30°C
- Can temperature: +10°C to +30°C
- Shelf life: 18 months

WINTER FOAM:

- Yield: up to 65 l
- Cutting time: ≤ 30 min
- Application temperature: -10°C to +30°C
- Can temperature: +5°C to +30°C
- Shelf life: 12 months

** The lack of MDI emission was certified by SP Proving Forskning Swedish Institute.

*** Product classified by The Building Information Foundation RT5 as M1 building material class. Once cured, it does not emit any hazardous substances.

All communicated parameters were measured in compliance with Selena's internal standards and depend heavily on external curing conditions, equipment quality and adherence to application instructions. The parameters were measured in standard laboratory conditions +23°C and 50% RH.

Product name	Content	Packaging	Pieces per box	Pieces per pallet
Gun	750 ml	Can	12	624

2K

Polyurethane Foam



Tytan 2K is a two-component foam for quick assembly of building elements. Easy twist activation system appreciated by the customers.

APPLICATIONS:

- Doors mounting and isolation of window sills and thresholds
- Mounting, soundproofing and insulation of shower trays and bathtubs
- For general building actions requiring quick installation

BENEFITS:

- Chemically cured foam – no moisture required
- Very short curing time up to 15 min – speed up installation process
- High mechanical endurance – guarantees rigidity and stability
- B2 fire rating class (DIN 4102-1)

TECHNICAL PARAMETERS:

- Yield: up to 10 l
- Cutting time: ≤ 15 min
- Full cure time: 4 h
- Application temperature: +10°C to +25°C
- Can temperature: +10°C to +25°C
- Shelf life: 12 months

Product name	Content	Packaging	Pieces per box	Pieces per pallet
2K	400 ml	Can	12	980

Window & Door Neutral Silicone



Fast curing neutral sealant that creates a non-shrinking, flexible joint, resistant to weather conditions and UV radiation. Recommended for windows made of PVC, metal, wood.

APPLICATIONS:

- Flexible sealing in window frame glazing
- Flexible sealing between window sill, window frame and the wall
- For interior and exterior use
- All types of joints around windows and doors

BENEFITS:

- Resistant to weather conditions, UV radiation, mould and fungus
- Excellent adhesion to both porous and nonporous substrates
- Can be used with all kind of materials: PVC, metal, wood

TECHNICAL PARAMETERS:

- Colour: white and transparent
- Working time: 5–15 min
- Curing time: 3 mm per 24 h
- Application temperature: +5°C to +40°C
- Temperature resistance: -40°C to +120°C

Product name	Content	Packaging	Pieces per box	Pieces per pallet
Window & Door Neutral Silicone	310 ml	Cartridge	12	1 440

Window & Door Acrylic



Paintable acrylic sealant recommended for filling and sealing interior gaps between window frame and wall. Designed to imitate structure of the wall (finishing coat). It can be painted with any kind of paint within 1 hour, without the risk of cracking or discoloration.

APPLICATIONS:

- Sealing around window and door frames
- Filling drywall connections, fissures in walls and balustrades
- Small plaster repairs before painting

BENEFITS:

- Paintable 1 h after application
- UV resistant
- Excellent adhesion to porous substrates (concrete, plaster, brick, wood or drywall)

TECHNICAL PARAMETERS:

- Colour: white
- Working time: 5–10 min
- Curing time: 3 mm per 24 h
- Application temperature: +7°C to +40°C
- Temperature resistance: -20°C to +80°C

Product name	Content	Packaging	Pieces per box	Pieces per pallet
Window & Door Acrylic	310 ml	Cartridge	12	1 440

Adhesive for EPDM Energy 2020



One-component hybrid-based adhesive, solvents free, which forms a flexible and strong bond.

APPLICATIONS:

- Bonding of EPDM sealing tapes to facade elements

BENEFITS:

- Fast and very strong initial grip
- High bonding strength
- Flexible joint
- Long open time

TECHNICAL PARAMETERS:

- Application temperature: +15°C to +25°C
- Application by brush, roller or trowel
- Evaporation time: 3 min

Product name	Content	Packaging	Pieces per box	Pieces per pallet
Adhesive for EPDM Energy 2020	310 ml	Cartridge	12	1 440

Adhesive for PVC Profiles



Adhesive for PVC profiles is suitable for quick bonding of construction materials made of hard PVC, such as drip molds, additional window profiles and moldings, elements of shutters, gutters and pipes.

APPLICATIONS:

- Used in window manufacturing for bonding of additional profiles
- Bonding and sealing of finishing window slats
- Sealing corners in PVC windows
- Bonding of PVC and ABS in pipes, pipe fittings, collars, joints, drains, PVC sheets

BENEFITS:

- Extremely weather resistant – contains UV stabilizers like a PVC window profile
- Good thermal resistance
- Thixotropic
- Quick curing

TECHNICAL PARAMETERS:

- Colour: white
- Working time: 1–4 min
- Curing time: 24 h
- Application temperature: +15°C to +25°C
- Temperature resistance: -20°C to +80°C

Product name	Content	Packaging	Pieces per box	Pieces per pallet
Adhesive for PVC Profiles	200 g	Tube	32	1 920

Window Tape Interior



Window Tape Interior provides an additional insulating layer between the wall and frame of windows or doors, thus protecting the joints from absorbing the moisture from the room. The tape consists of a high quality vapour barrier membrane, which guarantees the optimum value of $S_d \geq 50$ m, coated on both sides with non-woven polypropylene.

APPLICATIONS:

- Internal insulation between the wall and window or door frame to protect joints from moisture

BENEFITS:

- Vapour proof (high S_d value)
- Suitable for interior use
- Easy-to-use
- Can be plastered and painted

TECHNICAL PARAMETERS:

- Temperature resistance: -40°C to $+100^{\circ}\text{C}$
- Tensile strength: > 5 MPa
- UV resistance: 12 months
- Shelf life: 1 year

Product name	Width / Length	Adhesive	Rolls in box	Pieces per pallet
Window Tape Interior	70 mm / 30 m	No butyl	1	480
	100 mm / 30 m	No butyl	1	360
	150 mm / 30 m	No butyl	1	240
	70 mm / 30 m	With butyl single-sided	1	480
	100 mm / 30 m	With butyl single-sided	1	360
	150 mm / 30 m	With butyl single-sided	1	240
	70 mm / 30 m	With butyl double-sided	1	480
	100 mm / 30 m	With butyl double-sided	1	360
	150 mm / 30 m	With butyl double-sided	1	240

Window Tape Exterior



Window Tape Exterior provides an additional insulating layer between the wall and frame of windows or doors, preventing the joints from absorbing the rain and wind and improving the overall insulation parameters. The tape consists of a high quality vapour permeable membrane, which guarantees the optimum value of $S_d \leq 0,05$ m, coated on both sides with nonwoven polypropylene.

APPLICATIONS:

- External insulation between the wall and window or door frame to protect joints from weather

BENEFITS:

- High breathability membrane (low S_d value)
- Rainproof
- Suitable for exterior use
- Can be plastered and painted

TECHNICAL PARAMETERS:

- Temperature resistance: -40°C to $+100^{\circ}\text{C}$
- Tensile strength: > 5 MPa
- UV resistance: 3 months
- Shelf life: 1 year

Product name	Width / Length	Adhesive	Rolls in box	Pieces per pallet
Window Tape Exterior	70 mm / 30 m	No butyl	1	480
	100 mm / 30 m	No butyl	1	360
	150 mm / 30 m	No butyl	1	240
	70 mm / 30 m	With butyl single-sided	1	480
	100 mm / 30 m	With butyl single-sided	1	360
	150 mm / 30 m	With butyl single-sided	1	240
	70 mm / 30 m	With butyl double-sided	1	480
	100 mm / 30 m	With butyl double-sided	1	360
	150 mm / 30 m	With butyl double-sided	1	240

Window Tape Universal



Universal tape for window & door installation, recommended for protection and insulation of connections between the wall and the frame of windows or doors, both inside and outside the building. The tape consists of a high-quality smart membrane with a variable Sd rate, which eliminates the need for two dedicated tapes.

APPLICATIONS:

- Protection and insulation of joints between the wall and frame of windows and doors both inside and outside the building

BENEFITS:

- For interior and exterior use
- High-quality membrane
- Smart membrane with a variable Sd rate from 0,2 up to 7,1 m

TECHNICAL PARAMETERS:

- Water vapour permeability (PN-EN 12572): from 1,05 to 12 m
- Water resistance (PN-EN 1928): $\geq 0,02$ MPa
- Adhesion (DIN EN 1939-C): 15 N/ 25 mm
- Tensile strength (DIN EN 12311-2/A): ≥ 80 N/5 cm
- Elongation at break (DIN EN 12311-2/A): \geq min 100%
- UV resistance: 3 months

Product name	Width / Length	Adhesive	Rolls in box	Pieces per pallet
Window Tape Universal	70 mm / 30 m	No butyl	1	480
	100 mm / 30 m	No butyl	1	360
	150 mm / 30 m	No butyl	1	240
	70 mm / 30 m	With butyl single-sided	1	480
	100 mm / 30 m	With butyl single-sided	1	360
	150 mm / 30 m	With butyl single-sided	1	240
	70 mm / 30 m	With butyl double-sided	1	480
	100 mm / 30 m	With butyl double-sided	1	360
	150 mm / 30 m	With butyl double-sided	1	240

Butyl Tape



A self-adhesive tape based on butyl rubber coated on one side with synthetic fleece. The tape forms a high vapor barrier and is waterproof.

APPLICATIONS:

- Sealing doors and windows (between the jamb and the door frame)
- Expansion joints, roof windows and facades
- Chimneys
- For use as internal insulation

BENEFITS:

- Highly vapour tight and waterproof
- Very good adhesion to various surfaces
- Perfectly absorbs noise
- Resistant to fungi and mould

TECHNICAL PARAMETERS:

- Water vapour permeability (PN-EN 12572): ≥ 15000 m
- Water resistance (PN-EN 1928): 200 mm H₂O
- Adhesion (DIN EN 1939-C): 33 N/ 10 mm
- Tensile strength (DIN EN 12311-2/A): ≥ 2 MPa
- Elongation at break (DIN EN 12311-2/A): $\geq 60\%$

Product name	Width / Length	Rolls in box	Pieces per pallet
Butyl Tape	75 mm / 25 m	1	480
	100 mm / 25 m	1	360
	150 mm / 30 m	1	240

Butyl-Alu Tape



A self-adhesive tape based on rubber butyl reinforced on one side with aluminum foil. The tape forms a high vapour barrier and is waterproof, so it can be used for a wide range of construction applications.

APPLICATIONS:

- Sealing around roof windows and skylights
- Expansion joints
- Chimneys, aluminum facades, winter gardens and air conditioning units

BENEFITS:

- Highly vapour tight and waterproof
- Very good adhesion to different surfaces
- Perfectly absorbs noise
- Resistant to fungi and mould

TECHNICAL PARAMETERS:

- Water vapour permeability (PN-EN 12572): ≥ 1500 m
- Water resistance (PN-EN 1928): $\geq 0,1$ MPa
- Adhesion (DIN EN 1939-C): 33 N/10 mm
- Tensile strength (DIN EN 12311-2/A): ≥ 4 MPa
- Elongation at break (DIN EN 12311-2/A): $\geq 80\%$

Product name	Width / Length	Rolls in box	Pieces per pallet
Butyl-Alu Tape	75 mm / 25 m	1	480
	100 mm / 25 m	1	360
	150 mm / 30 m	1	240

Pre-Compressed Tape BG1, BG2, DB



A self-adhesive, impregnated tape based on polyurethane foam with open cells. It does not contain plasticizers. The tape is packed in rolls compressed to approx. 15–20% of the target thickness, and expands slowly in the gap when released from the roll. Depending on the requirements, there are several types of tapes with different water resistance index: BG1, BG2 and DB.

APPLICATIONS:

- Sealing the joint between the window or door frame and the jamb, in case of plastered window openings

BENEFITS:

- Leaves a completely homogenous tight seal
- Resistant to water-penetration and UV
- Remains elastic
- Insulation against noise and vibrations

TECHNICAL PARAMETERS:

- Colour: white
- Working time: 5–10 min
- Curing time: 3 min per 24 h
- Application temperature: +7°C to +40°C
- Temperature resistance: -20°C to +80°C

Product name	BG1	BG2	DB
Density [kg/m ³]	120	80	50
Tensile strength [kPa]	ca. 170	ca. 155	ca. 155
Elongation at break [%]	ca. 170	ca. 140	ca. 140
Water resistance [Pa]	600	300	300
Air permeability [m ³ /h/m] [Pa] 2/3	a ≤ 0,01	a ≤ 0,03	a ≤ 0,1
Flexibility [w -35°C]	no cracks	no cracks	no cracks
Heat ratio [w/m ²]	0,06	0,06	–

Sizes of tapes	Gap width	Sizes of tapes	Gap width
10 x 2 / 10 mm	3–5 mm	15 x 6 / 30 mm	8–15 mm
15 x 2 / 10 mm		20 x 6 / 30 mm	
20 x 2 / 10 mm		25 x 6 / 30 mm	
30 x 2 / 10 mm	4–7 mm	30 x 6 / 30 mm	10–20 mm
10 x 3 / 15 mm		15 x 8 / 40 mm	
15 x 3 / 15 mm		20 x 8 / 40 mm	
20 x 3 / 15 mm	5–10 mm	25 x 8 / 40 mm	12–25 mm
30 x 3 / 15 mm		30 x 8 / 40 mm	
10 x 4 / 20 mm		20 x 10 / 50 mm	
15 x 4 / 20 mm	7–12 mm	25 x 10 / 50 mm	15–30 mm
20 x 4 / 20 mm		30 x 10 / 50 mm	
25 x 4 / 20 mm		20 x 12 / 60 mm	
30 x 4 / 20 mm	7–12 mm	25 x 12 / 60 mm	15–30 mm
15 x 5 / 25 mm		30 x 12 / 60 mm	
20 x 5 / 25 mm			
25 x 5 / 25 mm			
30 x 5 / 25 mm			

Caliber 30 Gun for Polyurethane Foams



A new generation gun applicator which guarantees increased foam yield. The valve is opened mechanically by contact with the can and is not dependent on the pressure inside the can.

APPLICATIONS:

- Application of one component polyurethane foams and foam adhesives in cans

BENEFITS:

- Up to 30% increased foam yield
- Metal body: no leakage, no spraying
- Stable performance of foam
- Low post-expansion
- Stable foam flow
- Easier cleaning

Product name	Packaging	Pieces per box	Pieces per pallet
Caliber 30 Gun	Box	20	480

Pro Gun for Polyurethane Foams



Professional gun applicator for polyurethane foams. Construction elements made of metal guarantee high durability and extended product life.

APPLICATIONS:

- Application of one component polyurethane foams and foam adhesives in cans

BENEFITS:

- Solid construction – metal body
- Teflonised basket
- Perfect handling due to ergonomic handgrip
- Easy foam output control
- Secured backscrew (patented solution)
- Needle stabilisation (patented solution)
- New basket internal diameter – resulting in higher output
- High durability

Product name	Packaging	Pieces per box	Pieces per pallet
Pro Gun	Box	40	480

Graphite Gun for Polyurethane Foams



Professional gun applicator for one component PU foams. Construction made of teflon coated aluminum with copper nozzle guarantees comfortable and professional work.

APPLICATIONS:

- Professional foam application way for mounting window and door frames

BENEFITS:

- High durability
- Easy cleaning
- Low weight – easy work

Product name	Packaging	Pieces per box	Pieces per pallet
Graphite Gun	Box	40	480

Cured Foam Remover



Professional cleaning product with very high efficiency. Cleans cured polyurethane foam. Ideal for cleaning most types of surfaces: PVC, wood, stone, tiles, concrete, epoxy, steel, upholstery, clothing, work clothes, hands, etc., very fast action without interfering with the structure of the surface.

BENEFITS:

- Eliminates cured foams in 2 min
- Safe for all surfaces
- Friendly to humans and the environment
- Easy and comfortable to use

TECHNICAL PARAMETERS:

- Solvent: free
- Shelf life: 18 months

Product name	Content	Packaging	Pieces per box	Pieces per pallet
Cured Foam Remover	100 ml	Bottle	12	4 032

Cleaner

for Polyurethane Foams



Multifunctional agent for removing uncured polyurethane foams and adhesives.

BENEFITS:

- Excellent for removing uncured polyurethane foams and adhesives
- Essential for cleaning and degreasing surfaces prior to the application of polyurethane or silicone
- Indispensable for cleaning valves and gun applicators for polyurethane foams and foam adhesives

TECHNICAL PARAMETERS:

- Solvent: acetone
- Propellant: propane-butane-isobutene
- Shelf life: 36 months

Product name	Content	Packaging	Pieces per box	Pieces per pallet
Cleaner	500 ml	Can	12	780





	65	65 Winter	Ice 65	Low Expansion
Main recommendation	Large number of windows to install	Large number of windows to install	Window installation in extremely low temperature	For narrow window joints & door installation
Yield	up to 65 l	up to 65 l	up to 65 l	up to 55 l
Can temperature	+10°C to +30°C	+5°C to +30°C	-20°C to +30°C	+10°C to +30°C
Ambient temperature	+5°C to +30°C	-20°C to +30°C	-20°C to +30°C	+5°C to +30°C
Cutting time	≤ 30 min	≤ 30 min	≤ 30 min	≤ 30 min
M1 certificate	yes	yes	yes	yes
O₂ certificate	yes	yes	yes	yes
Acoustic insulation	61 dB	61 dB	61 dB	60 dB
Fire class	B3	B3	B3	B3
Thermal conductivity λ	0,036 W/mK	0,036 W/mK	0,036 W/mK	0,036 W/mK
Shelf life	18 months	12 months	12 months	18 months





Low Expansion Winter	Energy 2020 All Season	Multi Protection	Gun	Gun Winter	2K
For narrow window joints & door installation	Energetic efficiency	Low MDI below 1%	Classic application	Classic application	Door installation
up to 55 l	up to 45 l	up to 20 l	up to 45 l	up to 45 l	up to 10 l
+5°C to +30°C	+5°C to +30°C	+15°C to +30°C	+10°C to +30°C	+5°C to +30°C	+10°C to +25°C
-10°C to +30°C	-10°C to +35°C	+15°C to +30°C	0°C to +30°C	-10°C to +30°C	+10°C to +25°C
≤ 30 min	≤ 25 min	≤ 40 min	≤ 40 min	≤ 40 min	≤ 15 min
yes	yes	yes	yes	yes	yes
yes	yes	yes	yes	yes	yes
60 dB	64 dB	-	-	-	63 dB
B3	B3	B2	B3	B3	B2
0,036 W/mK	0,032 W/mK	0,036 W/mK	0,036 W/mK	0,036 W/mK	0,036 W/mK
12 months	18 months	12 months	18 months	12 months	12 months





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