

# FAÇADES

Protection, waterproofing, safety



**rothoblaas**

Solutions for Building Technology



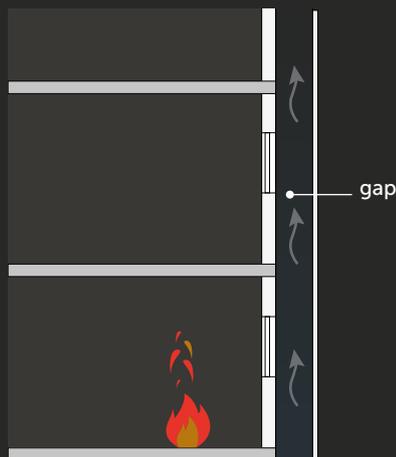
# VENTILATED FAÇADES AND FIRE

All building typologies have to consider fire safety issues, depending on the regulations in force and the intended use. This was done in order to minimise the causes of fire, ensure the stability of the structure and limit the spread of flames both inwards and towards neighbouring buildings, guaranteeing the safety of the occupants and access for rescue teams. In order to minimise this type of risk, it is essential to rely on the right components and to carefully design them. Our ventilated façade solutions minimise risks by limiting the spread of flames in the event of an internal or external fire.

## FIRE SPREAD PHASES IN A VENTILATED FAÇADE

### 1.

In the event of a fire starting inside the building, the flames initially spread to the room where they started. Modern buildings with ventilated façades are designed to take full advantage of the chimney effect of the ventilated façade, to reap the benefits of the upward movement of air in the gap between the cladding and the insulating layer. It is precisely this phenomenon that can give rise to problems in the event of a fire.

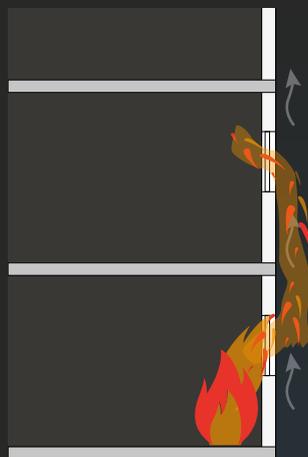


### 2.

In the event of a fire, the chimney effect of the ventilated façade could cause problems as it could direct the flames into the ventilation space, pushing them towards the upper floors of the building.

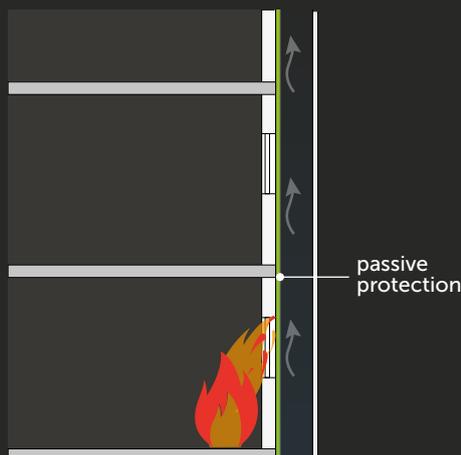
#### CHIMNEY EFFECT

The chimney effect is a physical phenomenon, at the basis of how traditional chimneys work, taken up by the world of architecture to ensure that, by exploiting the upward movement of hot air generated inside ventilated façades, a continuous cycle is created and the housing comfort of the building is increased.



### 3.

Careful fire protection design includes active or passive protection devices within the design with the purpose to prevent the spread of any flames. Rothoblaas proposes the use of self-extinguishing membranes and tapes as a passive façade solution. If no preventive measures are taken, the combustion of materials could lead to flames on the upper floors. The same concepts also apply in the case of a fire developed outside the building.



# BARRIER ALU FIRE A2 SD2500

REFLECTIVE AIR VAPOUR BARRIER  
FIRE REACTION CLASS A2-s1,d0



## NON-COMBUSTIBLE A2-s1,d0

Product tested according to EN 13501-1 and classified as non-combustible material.

## ENERGY EFFICIENCY

The reflectivity of the membrane improves the energy performance of the construction panels: reflecting heat inwards up to 95% it increases thermal resistance.



# TRASPIR ALU FIRE A2 430

REFLECTIVE HIGHLY BREATHABLE  
MEMBRANE



## NON-COMBUSTIBLE A2-s1,d0

Membrane tested according to EN 13501-1 and classified as non-combustible material.

## REFLECTIVE

Thanks to its ability to reflect up to 95% of the heat, it improves the thermal performance of the construction panels.



## SELF-ADHESIVE MEMBRANES

The addition of a high-performance adhesive is the range upgrade of Rothoblaas membranes. The self-adhesive version of the membranes allows quick installation, protection of timber on the worksite and, above all, the possibility of prefabricating a waterproofed timber panel.

**Discover BARRIER, BARRIER ALU, VAPOR IN, CLIMA CONTROL, VAPOR, TRASPIR and BITUM on our website.**



# TRASPIR EVO 300

## HIGHLY BREATHABLE MONOLITHIC MEMBRANE



### MONOLITHIC

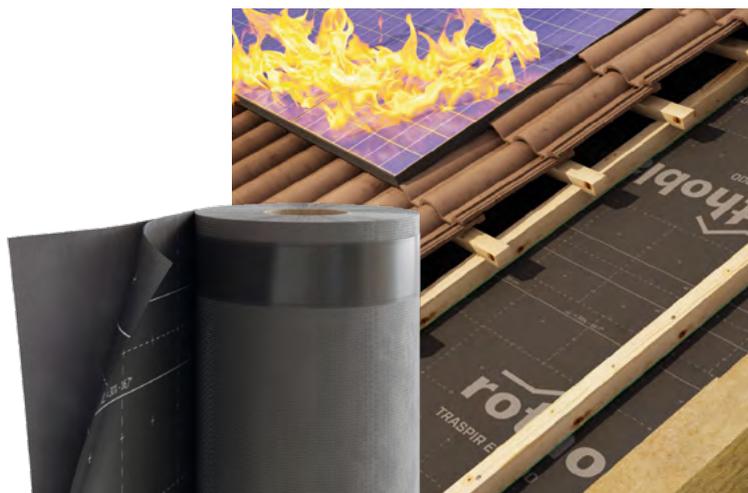
The monolithic structure of the membrane guarantees excellent durability over time, thanks to the special polymers used.

### 9 MONTHS UV STABILITY

9 months resistance to UV rays with full exposure to radiation and no protection. Heat-resistant up to 120 °C.

### EXCEPTIONAL TEMPERATURE RESISTANCE

It passed the artificial ageing test involving exposure to UV light for 5000 hours. Heat-resistant up to 120 °C.



# TRASPIR EVO UV 210

## HIGHLY BREATHABLE MONOLITHIC MEMBRANE RESISTANT TO UV RAYS



### MONOLITHIC

The monolithic structure of the membrane guarantees excellent durability over time, thanks to the special polymers used.

### B-s1,d0

Flame retardant certification, Euroclass reaction to fire B-s1, d0 based on EN 13501-1.

### PERMANENT UV STABILITY

Permanent resistance to UV rays with exposure with open joints up to 50 mm wide, and with up to 40% of the surface uncovered.



## THE BEST DEFENCE? IT'S PASSIVE!

Play in advance and handle fire problems with passive protection solutions: **design your building by incorporating Rothoblaas tapes, sealants and membranes.**





# STRUCTURES AND FIRE BEHAVIOUR

## REACTION TO FIRE

The reaction to fire class is an indicator that provides an assessment of whether or not the material contributes to fire. Different material behaviours correspond to different classes, ranging from non-combustible products to extremely flammable materials.

European classification according to EN 13501-1



**Class A1** non-combustible products

**Classes A2, B, C, D, E** combustible products, as their participation in the fire increases



**Class F** indicates materials with Non-Determined Performance (NDP) or that do not reach Class E



**s1, s2, s3** are the three values indicating the optical density of smoke



**d0, d1, d2** are the three values indicating the danger of dripping

## WATER, AIR, FIRE, WIND, STEAM

The ideal membrane responds to the climatic factors of the geographical areas in which we construct our timber buildings. Using the right membranes contributes to increased living comfort and building quality.

Climate regions and solutions can be found in the **TAPES, MEMBRANES AND SEALANTS catalogue**





## FRONT BAND UV 210

UNIVERSAL SINGLE-SIDED TAPE, HIGHLY RESISTANT TO UV RAYS



### AESTHETICS

Support made of monolithic TRASPIR EVO UV 210 membrane for excellent aesthetic performance even when applied with TRASPIR EVO 300.

### REACTION TO FIRE B-s1,d0

Self-extinguishing tape that does not spread the flame in case of fire, contributing to the passive protection of the structure.



## FIRE STRIPE GRAPHITE

FLEXIBLE INTUMESCENT GASKET



### INTUMESCENT

Even in the event of fire, it does not release gases or harmful substances. Asbestos-free, its intumescence is due to the presence of graphite.

### HERMETIC

Because of its ability to expand, the profile ensures that fumes, gases and flames are blocked from room temperature up to over 500°C.



## FACADE BAND UV

UNIVERSAL SINGLE-SIDED TAPE,  
RESISTANT TO UV RAYS

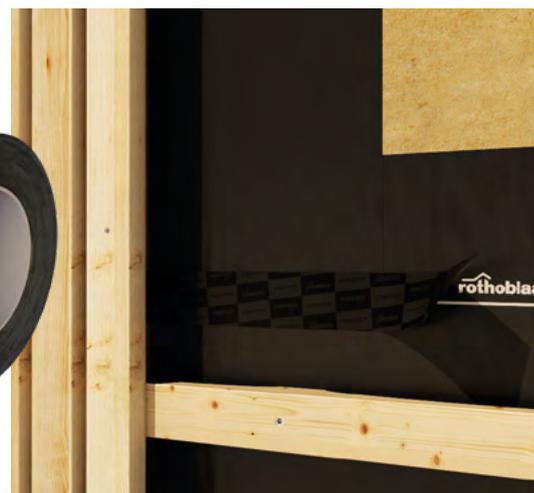


### UV STABILITY

Ideal for façade sealing and for overlapping on UV-ray resistant membranes.

### INVISIBLE

Developed for application on TRASPIR for façade and TRASPIR EVO 300 for excellent aesthetic performance.



## TERRA BAND UV

BUTYL ADHESIVE TAPE



### DECKS AND FACADES

Ideal for protecting joists from water and UV rays. Can be used for both patios and façades, protecting and extending the life of the wooden joists.

### PERMANENT UV STABILITY

The aluminised support guarantees unlimited resistance to UV radiation that can penetrate between open joints of patios and façades.



## FLEXI BAND UV

UNIVERSAL SINGLE-SIDED ADHESIVE TAPE  
WITH HIGH UV STABILITY AND RESISTANCE



### UV STABILITY AND AGEING

The special carrier is designed to offer excellent UV stability, while maintaining mechanical and adhesion properties over time due to excellent ageing resistance.

### HEAT-RESISTANT UP TO 120°C

The combination of glue and polypropylene carrier makes it possible to achieve very high thermal stability without compromising the glue adhesion and viscosity.



# BLACK BAND

UNIVERSAL SINGLE-SIDED BUTYL TAPE



## EXTRAORDINARY

Universal and expandable up to 300%, it effectively seals any crack on the most widely used construction materials.

## PRACTICAL

Ideal for easy sealing on difficult nodes and very irregular surfaces; self-sealing even at low temperatures.



# ALU BUTYL BAND

REFLECTING BUTYL ADHESIVE TAPE



## BUTYL

The butyl composition offers excellent adhesion on the most common surfaces, even very porous ones.

## UV-STABLE

The reinforced aluminium coating protects the butyl mixture, guaranteeing that the seal lasts.



# WINDOW BAND

SELF-EXPANDING SEALING TAPE FOR WINDOWS/DOORS



# MS SEAL

MS POLYMER HIGH ELASTICITY SEALANT



## HBS EVO

COUNTERSUNK SCREW

C4  
EVO  
COATING



## VGZ EVO

FULL THREAD SCREW WITH  
CYLINDRICAL HEAD

C4  
EVO  
COATING



## SBD

TIMBER-TO-STEEL SELF-DRILLING DOWEL

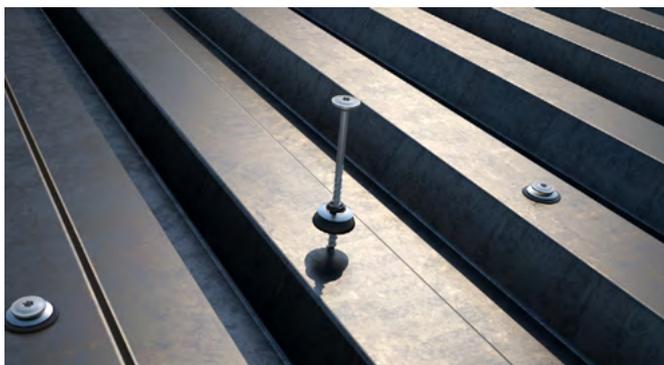
VIDEO



## TBS EVO

FLANGE HEAD SCREW

C4  
EVO  
COATING



## DGZ

DOUBLE THREADED SCREW FOR  
INSULATION

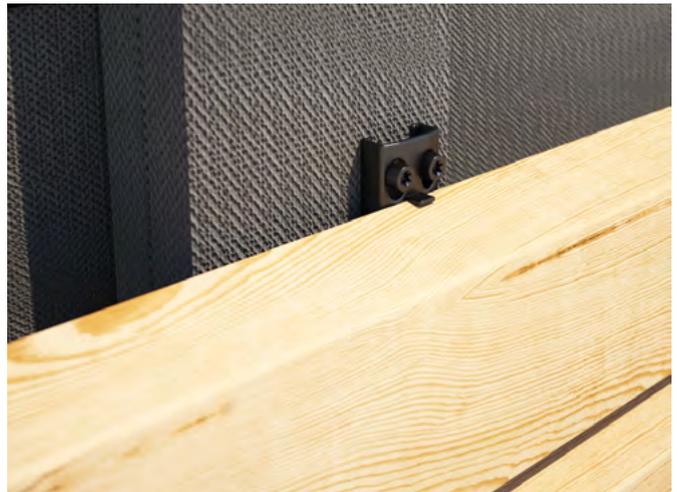
MY  
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## TERRALOCK

CONNECTOR FOR DECKING



✓ RELATED PRODUCTS

**KKT A4 | AISI316**  
Cone-shaped concealed head screw



**KKF AISI410**  
Pan head screw



## WKF

ANGLE BRACKETS FOR FACADES

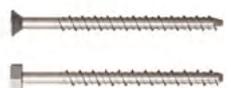


✓ RELATED PRODUCTS

**LBS**  
Round head screw for plates



**SKR-SKS**  
Screw anchor for concrete





# DISC FLAT

## REMOVABLE CONCEALED CONNECTOR



✓ RELATED PRODUCTS

**KOS**  
Hexagonal head bolt



**MET**  
Threaded rods, nuts and washers



# LOCK FLOOR TIMBER

## CONCEALED TIMBER-TO-TIMBER CONNECTOR



✓ RELATED PRODUCTS

**LOCK**  
Coupling hidden fastener



# ALU MINI

## CONCEALED BRACKETS WITH AND WITHOUT HOLES



✓ RELATED PRODUCTS

**ALU MIDI AND ALU MAXI**  
Concealed brackets with and without holes



## INA

5.8 AND 8.8 STEEL CLASS THREADED ROD FOR CHEMICAL ANCHORS



## AB1

HEAVY DUTY EXPANSION ANCHOR CE1



## HYB FIX

HIGH-PERFORMANCE HYBRID CHEMICAL ANCHOR

HYB-FIX is the high-performance hybrid chemical anchor ideal for extra-heavy anchor systems and for recasting with reinforcing bars. The urethane-methacrylate resin is certified for fire resistance F120 and is CE marked option 1 for cracked and non-cracked concrete.

It is also effective on wet concrete and concrete with submerged holes and is certified in seismic performance category C2 (M12-M24).



# WING

## ANCHOR POINT FOR WORK AT HEIGHT AND IN SUSPENSION

Extremely robust and reliable.

Can be used both for suspended work (1 person) and for protection against falls from height (3 people).



VIDEO



# H-RAIL OVERHEAD

## HORIZONTAL OVERHEAD RIGID ANCHOR LINE

H-RAIL OVERHEAD is the overhead rail lifeline which, thanks to the special plates, can be installed directly on different types of substructure. The rail allows operators to work with their hands free and in safety by using sliding and retractable devices.



VIDEO



# PERSONAL PROTECTIVE EQUIPMENT

## HELMETS

Line of helmets for work at height, on construction site or in industrial areas. Adjustable and ready to assemble head lamps and other accessories.

## HARNESSES

Semiprofessional and professional harnesses for fall protection, positioning and rope access work.

## ROPES AND CONNECTORS

Abrasion resistant work ropes featuring great handling, to be combined with connectors available in a wide range of shapes, sizes and breaking strengths.



Discover our **PPE** proposal for safety on construction sites and at work. Visit our website or request the **FALL PROTECTION AND SAFETY** catalogue from your trusted agent. [www.rothoblaas.com/safe](http://www.rothoblaas.com/safe)



## FASTENING

Screws for timber | Plates and connectors | XEPOX epoxy adhesive  
CLT slab-to-column connections | Terraces and facades  
Anchors for concrete

## AIRTIGHTNESS AND WATERPROOFING

Tapes and sealants | Roof and ventilation elements | Membranes

## SOUNDPROOFING

Resilient profiles | Soundproofing layers | Sealants

## FALL PROTECTION

Lifeline and rail systems | Anchor points | Collective protection  
Personal Protective Equipment

## TOOLS AND MACHINES

Carpentry tools | Measurement | Templates | Construction site protection  
Transport and Lifting | Wood repair | Drill bits and cutters | Machines

# rothoschool



## STAY SAFE

Safety on the construction site is only guaranteed if the right choices are made upstream. Follow Rothoschool training courses, keep up to date on risks, fall protection systems and personal protective equipment. Depending on the subject, the courses are theoretical or practical. Discover the programme and take advantage of early booking.



Discover all our courses!  
[rothoblaas.com/school](https://rothoblaas.com/school)



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