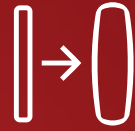




Cooling
fire protection
boards



Intumescent
fire resistant
materials



Cooling and intumescent fire protection materials

Boards · Seals · Moldings

The highest quality of **fire protection**

www.branddex.com

Branddex

Branddex specializes in the production of mineral materials with the best fire protection properties, which are mainly used in the building industry and shipbuilding. The company has been in the market since 1994.

Thanks to innovative materials, research, continuous development of the range, and intensive distribution activities combined with active technical information, Branddex is a specialized company for top quality technical fire protection.

Our priority is to provide selected products and solutions that are ideally suited to the technical parameters of our customers' needs and expectations. Thanks to the exact matching of parameters to customer's criteria, we can ensure cost optimization and preferential price.

Quality confirmed with certificates

We attach great importance to proper control of the materials we manufacture. The production process is controlled according to the guidelines of the quality management system ISO 9001 the most recognized international standard for effective quality management.

Attention to every detail also takes place thanks to regular internal and external inspections of the production process carried out by units accredited by the DIBt (German Institute for Building Technology). Moreover, Branddex products have certificates of the Polish Register of Ships and certificates of the National Institute of Hygiene.



We are with you at every stage



Analysis of needs

We know how difficult it can be to choose the right fireproof products, tailored to a specific project. In order to help you solve this problem, we analyze your needs and provide optimal solutions for your product. Tell us your expectations and we will choose a solution.



Technical advice

As we approach each customer individually, we are able to present an offer that is most suitable for specific needs. Our qualified and experienced advisors will help you choose the right products and provide you with full technical information.



Fire testing in our own laboratory

We have an appropriate fire test infrastructure, which we use to carry out fire resistance tests of construction elements. Thanks to the internal pretesting process, your product can be assessed better concerning its fire resistance performance.



Customization of products

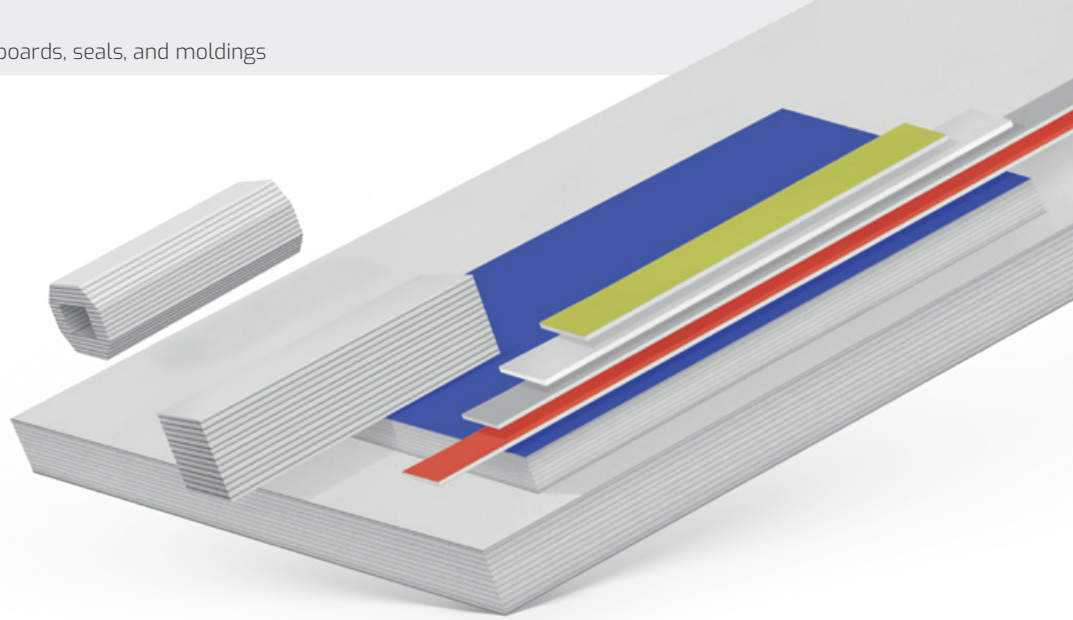
The services we provide for specific requirements, the shapes, and the sizes enable us to adapt the material to the individual needs of the customer and to reduce costs by shortening our own processing.



Packaging method - according to your choice!

Depending on your preferences, we are able to choose the type and form of delivery that will meet your expectations. We can also customize the ready orders by adding your identification signs and pack them in:

- ▶ heat shrink wrap
- ▶ cardboard boxes
- ▶ timber crates



Our products

If you are looking for products that provide strong fire protection for e.g. steel structures, walls, ceilings, electrical systems, ventilation ducts, and cable routes, our offer is perfect for you.

PALSTOP® products meet the needs of our customers and include cooling fire protection boards and moldings and intumescent fire resistant boards and seals.

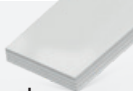


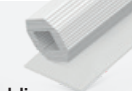





All our products have a fundamentally different and unique chemical composition compared to competing products. They are designed to provide the highest possible fire protection for building components.

Compared to normal mineral boards, PALSTOP® products offer greater resistance to mechanical damage and reduced risk of scratches and cracks.

PALSTOP®

Due to their unique specification, the new generation of PALSTOP® products ensures a slowing down of the temperature rise of the component exposed to fire, prevents the spread of fire, and helps achieve thermal insulation.

The use of this type of solutions in partition walls, ceilings, wall claddings, elevator shafts, and wooden or steel load-bearing components of buildings makes it possible to achieve a much higher fire resistance performance. Due to their application, they are divided into:

							
		Board	Board	Board	Moldings	Moldings	Seals
		PALSTOP PAX	PALSTOP PAX H	PALSTOP P	PALSTOP PAX	PALSTOP PAX H	PALSTOP P
	Intumescent	—	—	✓	—	—	✓
	Cooling	✓	✓	—	✓	✓	—
	Moisture resistant	—	✓	—	—	✓	—
	Contains no toxic substances	✓	✓	✓	✓	✓	✓

Certificates, approvals and attestations

Branddex products are subject to continuous in-house quality control (according to ISO 9001:2015 and DIN 18200:2000), as well as official external control by iBMB MPA TU Braunschweig, Firelabs in Germany and Bureau Veritas in Poland.

Branddex provides high quality materials for fire rated construction systems for various building and installation systems.

Our materials guarantee high quality technical fire protection.

Branddex products are recognized by the National Institute of Hygiene and their suitability for passive fire protection is proven by numerous Technical Approvals.



Fire-protection cooling board

PALSTOP® PAX

PALSTOP® PAX is a fire resistant mineral board which, through strong/efficient cooling, slows down the temperature rise of the element exposed to the fire. Thanks to the glass fiber reinforcement, products of this type are characterized by high durability and better sound insulation. Manufactured in the form of a molding, it is suitable e.g. for steel or aluminum profile systems.

Intended use

PALSTOP® PAX boards are used in the industry and construction where fire resistance and high mechanical resistance are required. They are used, among others, in the production of facade systems, safes, and servers. Due to their high bending strength, the moldings can be made less thick without the risk of breaking. On request, it can be covered with plastic or multi-layer aluminum foil.

- Facade glazing systems
- Steel and aluminum doors
- Steel and aluminum enclosures, e.g. server cabinets and safes

Specification



Strong cooling
in case of fire



High bending strength
- thanks to the glass
mat reinforcement



Contains
no toxic
substances



Thermal
insulation



Adaptable
to technical requirements
(dimension, shape)



Excellent
resistance
to high temperature

PALSTOP® PAX board



PALSTOP® PAX fire protection board			
Fire resistance class	A1, non-combustible		
pH	11		
Thickness (mm)	1,5 - 2,5	2,5 - 30	30 - 60
Thickness tolerance (mm)	± 0,2	± 0,5	± 0,8
Max. width (mm)	980 ±1		
Max. length (mm)	3000		
Density (kg/m ³)	1700		
Bending strength (N/mm ²)	14,6		

Fire-protection cooling board

PALSTOP® PAX H (moisture resistant)

PALSTOP® PAX H is a product resulting from further development of PALSTOP® PAX, which has been present in the market for many years and is very popular. It has all the fire protection properties of PALSTOP® PAX and is also moisture resistant. This was examined and positively evaluated by the Institute of Window Technology in Rosenheim (test report no. 12-001444-PR03).

This means that it is particularly suitable for facades and spaces with increased humidity.

Intended use

The boards are intended for use in the building industry, to make fireproof building components, such as partition walls, panels, and aluminum or steel systems. Thanks to their porous surface, they can be glued to other materials (e.g. mineral wool) as a composite liner.

- Facade glazing systems
- Rooms with increased humidity
- Aluminum/steel doors
- Steel/aluminum enclosures, e.g. server rooms and safes
- Partition walls

Specification



Strong cooling in case of fire



High bending strength - thanks to the glass mat reinforcement



Thermal insulation



Adaptable to technical requirements (dimension, shape)



Moisture resistant



Contains no toxic substances



Excellent resistance to high temperature



PALSTOP® PAX H board

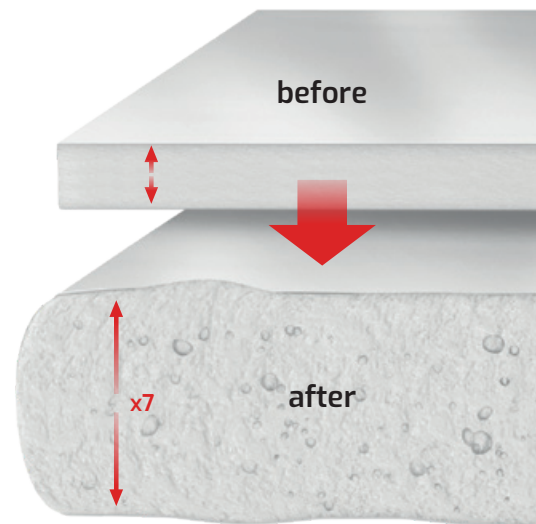
PALSTOP® PAX H fire protection board

Fire resistance class	A1, non-combustible		
Moisture resistance	increased moisture resistance		
pH	10		
Thickness (mm)	1,5 - 2,5	2,5 - 30	30 - 60
Thickness tolerance (mm)	± 0,2	± 0,5	± 0,8
Max. width (mm)	980 ±1		
Max. length (mm)	3000 ± 2		
Density (kg/m ³)	1700		
Bending strength (N/mm ²)	12,21		

Fire resistant intumescent board

PALSTOP® P

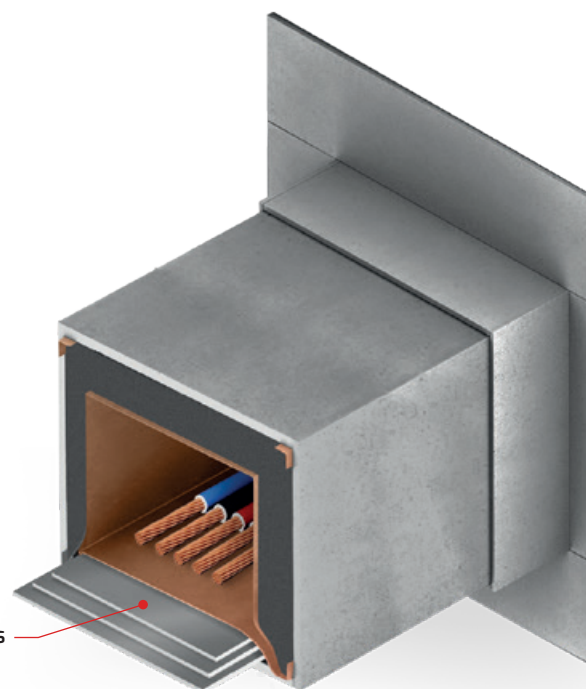
PALSTOP® P is a fire resistant board reinforced with a fiber glass mat, coated on both sides with multi-layer aluminum foil. It is a board that expands at 100 °C and can increase its thickness sevenfold in a very short time (about 70 s), producing a non-combustible, heat-insulating, and pressure-stable sealant. It closes joints, crevices, and ducts of construction components, thus preventing the spread of fire. Additionally, it provides thermal insulation and cools down the surroundings.



Intended use

Due to its good thermal insulation properties, it is suitable, for example, for use as a lining or cover for cable boxes, service covers, ventilation shafts, and cable ducts to protect structural elements in the event of a fire. It is also used as an insert in fire doors (EI30, EI60, EI90), walls, floors, and ceilings.

- Single or double leaf doors in wood or steel, fire rated doors
- Fire and smoke resistant soundproof doors in schools, hotels, hospitals, offices, etc.
- Elevator doors and doors with high mechanical resistance in industrial buildings
- Sliding doors and roller shutter doors, also with improved thermal insulation performance (e.g. in cold stores)
- Safes, strong-boxes



Specification



Thermal insulation



Expands and closes gaps



Contains no toxic substances



Adaptable to technical requirements (dimension, shape)



Excellent resistance to high temperature



Stable and durable structure after swelling compared to graphite based materials

PALSTOP® P intumescent fire protection board

Thickness (mm)	2,0 ± 0,2
Weight per unit area (kg/m ²) (2,2 mm thick)	2,8
Max. width (mm)	980 ± 1 (or wider on request)
Max. length (mm)	2100 ± 2
Thermal conductivity (W/Km ²)	0,8
Thermal conductivity (expanded)(W/Km ²)	0,06
Expansion pressure (N/mm ²)	0,9 - 1,8
Expansion ratio	4,0 - 7,0
Coverage	Composite aluminum foil

Intumescent rigid fire seals

PALSTOP® P

PALSTOP® P fire seals are a fire barrier in fire stopping system. Reinforced with fiber glass mat, covered on both sides with multilayer aluminum foil, they are used to fill gaps and seams of construction elements.

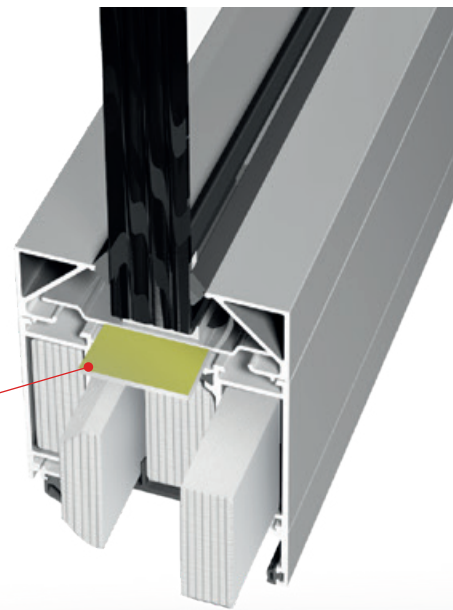
During a fire, they expand and fill the protected hole, thus creating an effective firewall. In contrast to permanent fire barriers, PALSTOP® P fire seals enable easy access to conduits for maintenance, modification, or replacement.

Intended use

The PALSTOP® P fire seal can be used wherever a reliable seal against fire must be guaranteed. This includes:

- ✓ Fire stops for cables
- ✓ Fire barriers in ventilation ducts
- ✓ Ventilation covers and grilles
- ✓ Fire door assemblies
- ✓ Glazing systems
- ✓ Fire seals between the glass pane and a profile.

PALSTOP® P fire seal



Specification



Thermal insulation



Expands and closes gaps



Contains no toxic substances



Adaptable to technical requirements (dimension, shape)



Excellent resistance to high temperatures



Stable and durable structure after swelling compared to graphite based materials

PALSTOP® P fire protection intumescent seal

Thickness (mm)	2,0 - 10 ± 0,5
Weight per unit area (kg/m ²) (2,2 mm thick)	2,8
Max. width (mm)	100 ± 1
Max. length (mm)	2500 ± 2
Thermal conductivity (W/Km ²)	0,8
Thermal conductivity (expanded)(W/Km ²)	0,06
Expansion pressure (N/mm ²)	0,9 - 1,8
Expansion ratio	4,0 - 7,0
Coverage	Composite aluminum foil

Fire protection moldings

PALSTOP® PAX

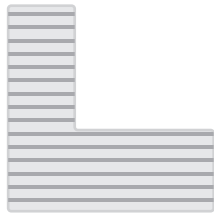
PALSTOP® PAX H

Tailored to your needs

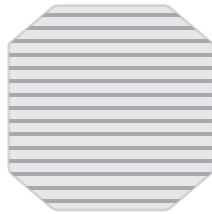
We are aware that your operations and products are unique and, therefore, our materials are prepared exactly according to your technical requirements and delivered as "Ready to Go." Adaptation of our products to the identified needs is a key task of our company.

We will adapt our product to every form and shape, and offer:

- ▶ Milling
- ▶ Cutting
- ▶ Drilling



Fold



Bevel



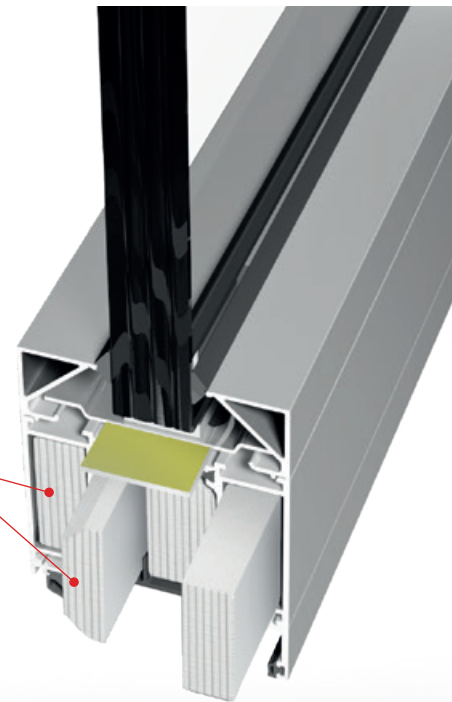
Hole

Intended use

Fire protection cooling moldings are designed for use as fire protection inserts for fire resistant doors and windows. Thanks to their porous surface, they can be glued to other materials (e.g. mineral wool) as a composite liner.

- Glass facades
- Glazing systems
- Aluminum/steel doors
- Steel/aluminum enclosures, e.g. servers and safes
- Partition walls.

Cooling
fire protection
moldings



Specification



Strong cooling
in case of fire



High bending strength
- thanks to the glass
mat reinforcement



Thermal
insulation



Moisture
resistant



Contains
no toxic
substances



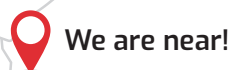
Adaptable
to technical requirements
(dimension, shape)

Coverage and colors suitable for your needs

Color - you get to choose!

We will adjust the colors of PE film to your requirements. Covering the moldings and seals with a lagging in the chosen color will allow the product to match the place of its installation and hence preserves your solution's aesthetic value.

 526 Stone Yellow Gloss PMS 102 C	 537 Light Blue Gloss	 526 Stone Yellow Matt PMS 102 C	 537 Light Blue Matt
 527 Butter Yellow Gloss PMS Yellow 012 / RAL 1018	 534 Turquoise Gloss	 527 Butter Yellow Matt PMS Yellow 012 / RAL 1018	 534 Turquoise Matt
 504 Primrose Yellow Gloss PMS 109 C / RAL 1023	 535 Teal Gloss PMS 320 C	 504 Primrose Yellow Matt PMS 109 C / RAL 1023	 535 Teal Matt PMS 320 C
 516 Light Orange Gloss PMS 137 C / RAL 1028	 536 Mint Gloss PMS 7465 C	 516 Light Orange Matt PMS 137 C / RAL 1028	 536 Mint Matt PMS 7465 C
 509 Orange Gloss PMS 1585 C / RAL 2008	 533 Forest Green Gloss PMS 343 C	 509 Orange Matt PMS 1585 C / RAL 2008	 533 Forest Green Matt PMS 343 C
 514 Poppy Red Gloss PMS 172 C	 532 Kelly Green Gloss PMS 348 C / RAL 6024	 514 Poppy Red Matt PMS 172 C	 532 Kelly Green Matt PMS 348 C / RAL 6024
 523 Medium Red Gloss PMS 179 C / RAL 3028	 506 Cactus Green Gloss PMS 341 C	 523 Medium Red Matt PMS 179 C / RAL 3028	 506 Cactus Green Matt PMS 341 C
 511 Cherry Red Gloss PMS 485 C / RAL 2002	 518 Grass Green Gloss PMS 355 C	 511 Cherry Red Matt PMS 485 C / RAL 2002	 518 Grass Green Matt PMS 355 C
 503 Geranium Red Gloss PMS 186 C	 517 Light Green Gloss PMS 368 C	 503 Geranium Red Matt PMS 186 C	 517 Light Green Matt PMS 368 C
 519 Red Gloss PMS 1795 C	 531 Lime Gloss PMS 7488 C	 519 Red Matt PMS 1795 C	 531 Lime Matt PMS 7488 C
 515 Dark Red Gloss PMS 1805 C	 501 White Gloss	 515 Dark Red Matt PMS 1805 C	 501 White Matt
 513 Burgundy Gloss PMS 202 C / RAL 3004	 544 Mist Grey Gloss	 513 Burgundy Matt PMS 202 C / RAL 3004	 544 Mist Grey Matt
 524 Magenta Gloss RAL 4010	 529 Light Grey Gloss PMS 5435 C	 524 Magenta Matt RAL 4010	 529 Light Grey Matt PMS 5435 C
 541 Pink Gloss PMS 210 C	 508 Grey Gloss PMS 7544 C / RAL 7046	 541 Pink Matt PMS 210 C	 508 Grey Matt PMS 7544 C / RAL 7046
 522 Violet Gloss PMS 2593 C	 545 Dove Grey Gloss PMS Cool Grey 8	 522 Violet Matt PMS 2593 C	 545 Dove Grey Matt PMS Cool Grey 8
 540 Cobalt Blue Gloss PMS 2767 C	 530 Dark Grey Gloss PMS 431 C / RAL 7012	 540 Cobalt Blue Matt PMS 2767 C	 530 Dark Grey Matt PMS 431 C / RAL 7012
 512 Dark Blue Gloss	 502 Black Gloss PMS 419 C / RAL 7021	 512 Dark Blue Matt	 502 Black Matt PMS 419 C / RAL 7021
 528 Vivid Blue Gloss PMS 662 C	 546 Silver Gloss PMS 877 C / RAL 9006	 528 Vivid Blue Matt PMS 662 C	 546 Silver Matt PMS 877 C / RAL 9006
 520 Ultramarine Blue Gloss RAL 5002	 547 Gold Gloss	 520 Ultramarine Blue Matt RAL 5002	 547 Gold Matt
 539 Reflex Blue Gloss PMS 287 C	 542 Ivory Gloss PMS 7506 C	 539 Reflex Blue Matt PMS 287 C	 542 Ivory Matt PMS 7506 C
 505 Blue Gloss	 543 Beige Gloss PMS 468 C	 505 Blue Matt	 543 Beige Matt PMS 468 C
 521 Intense Blue Gloss	 507 Brown Gloss PMS 7533 C / RAL 8017	 521 Intense Blue Matt	 507 Brown Matt PMS 7533 C / RAL 8017
 510 Bright Blue Gloss	 548 Nut Brown Gloss PMS 723 C / RAL 8023	 510 Bright Blue Matt	 548 Nut Brown Matt PMS 723 C / RAL 8023
 538 Gentian Blue Gloss PMS 7460 C		 538 Gentian Blue Matt PMS 7460 C	



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