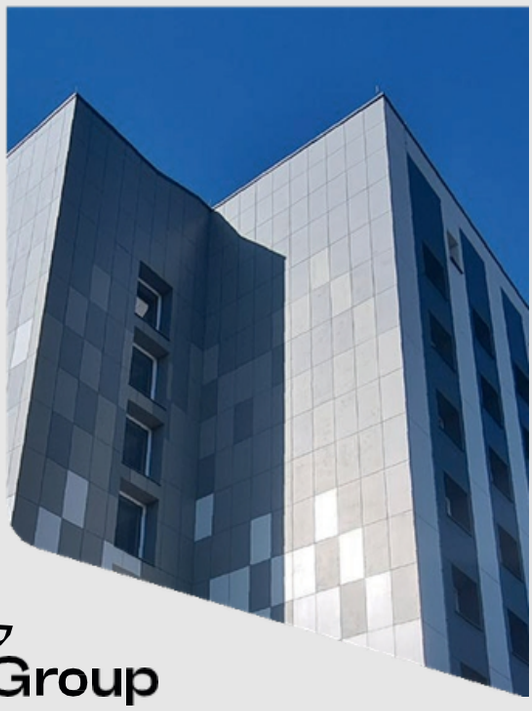
TEMPSI

CATALOGUE



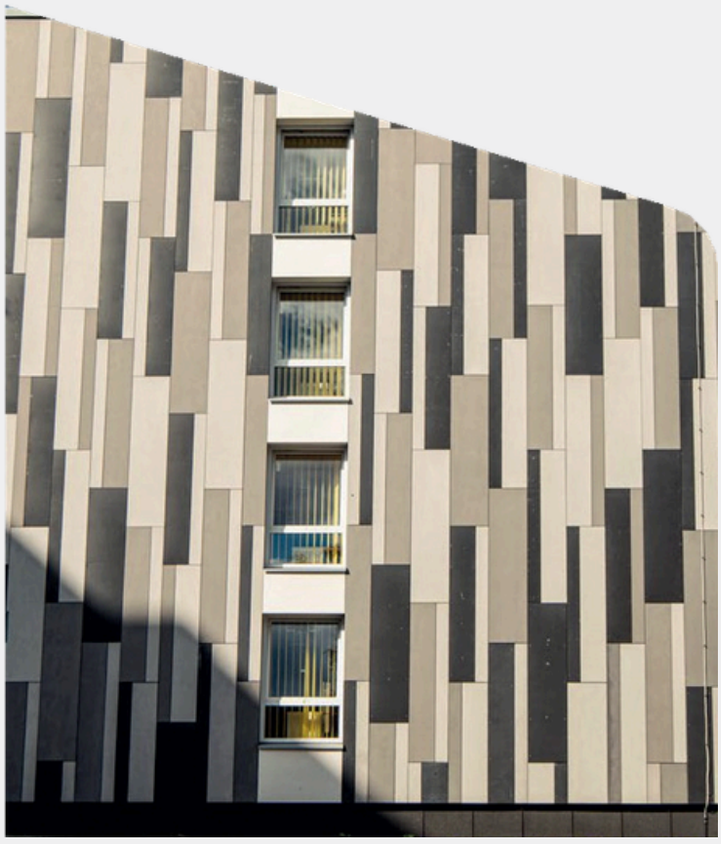






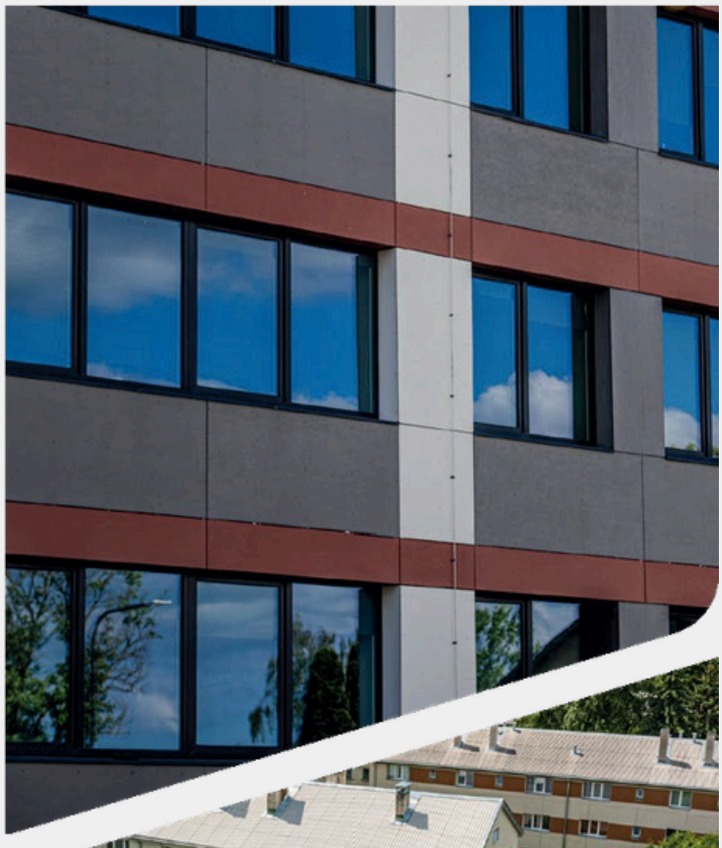


Wolf Group











CONTENTS

2	About us
3	Tempsi Supreme
4	Tempsi Optima
5	Tempsi Select B1
6	Tempsi Select HD
7	Tempsi Wind-Barrier Hydro
8	Tempsi Fortis
9	Tempsi FireStop
10	Silbonit Hydro/Hydro Plus
11	Tempsi Plank
12	Tempsi Plank Profile
13	Tempsi Edge
14	Tempsi Base / Cetris Basic
15	Tempsi Optima Colore
16	Tempsi Colore
17	Tempsi Granito
18	Tempsi Zoccolo Granito
19	ASD Laminate Exterior
20	Aquafire
21	Tempsi screws
21	Joint tape
22	Tempsi connection profiles
23	Ventilated facade
24	Ventilated facade frame systems



Tempsi is a brand of modern finishing and construction panels from Estonia. Tempsi products can be used for both exterior and interior work, and the panels are particularly well-suited for finishing ventilated façade systems. Tempsi has provided construction solutions for numerous architectural and construction projects across the Baltic States and the Nordic region. Over the years, we have built up a network of trusted partners and gained recognition within the construction sector.

Tempsi is part of the Wolf Group
The Wolf Group is a leading European manufacturer of construction chemicals and systems. The Wolf Group's main product brands are Penosil and Tempsi.

The Wolf Group's certified production facilities are located in Estonia and Spain. The Group's own sales companies operate in the European Union, the United Kingdom, North and South America, and Central Asia.

The Wolf Group is a global expert in polyurethane foams, sealants, adhesives and surface coatings; all products are developed by our own R&D team. Our solutions and products are recognised in more than 70 countries, offering an excellent customer experience to industry, professionals and domestic users, as well as private label clients (contract manufacturing).





TEMPSI SUPREME is a mass-coloured fibre cement board that combines high quality with an elegant, minimalist appearance. The smooth surface and pastel tones create a clean and modern façade, where every detail appears refined and harmonious.

The boards are hydro-treated, which helps reduce water absorption and supports a more uniform appearance of the façade throughout its service life. Over time, natural weathering may occur - the façade takes on a subtle and natural appearance characteristic of fibre cement, giving the surface character whilst maintaining a neat overall impression.

The product is asbestos-free and manufactured using an autoclave process, which helps ensure stable and consistent material properties. Furthermore, green cement is used in production to reduce environmental impact and support sustainable construction.

The unique feature of mass-coloured fibre cement is that the colour pigment is present throughout the entire material - the tone remains consistent even at the edges and in cut sections. This ensures a particularly clean and precise finish and emphasises the aesthetic appearance of the board even in more complex joints.

Application areas:

TEMPSI Supreme panels are designed for exterior cladding. TEMPSI Supreme panels are used for the construction of ventilated facades; the panels are modern, durable and lightweight. They can also be used indoors for design solutions.

Properties:

- Fire resistance class A1
- Easy to prepare and install
- Excellent mechanical strength
- Resistant to mould, fungi and pests
- Non-combustible material: EN 12467:2012 + A2:2018

Colours:

5 differentsolid colours and a smooth surface texture give TEMPSI Supreme cladding boards an exceptionally natural look.



White Grey *Dark Grey* *Grey* *Brown* *Terracotta*

Please note that the actual colour may differ from that shown in the images!

The natural colour and some minor variations are characteristic features and effects of this product. It is important to note that there may be slight colour variations between different batches and that each tile is unique. Due to the manufacturing process, there may be greater variations in the colour range on the back of the tile. The tile may not be suitable for applications where both sides are visible. Please note that the colour may differ in reality from what is shown in the images. There are colour variations between different batches.

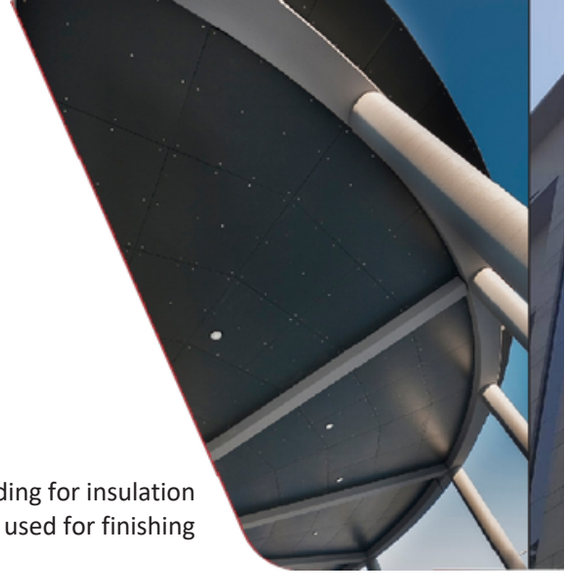
Dimensions:

Standard sizes: 1200 mm x 2400 mm, 1200 mm x 3000 mm

Thickness: 8 mm

Other thicknesses are available to order (up to 20 mm).

If required, the sheets can be cut to the required dimensions at the factory in accordance with the specifications.



Tempsi Optima is a decorative and eco-friendly fibre cement finishing and building board, made from natural materials. The board is fully primed.

Application areas:

Finishing and renovation of façades (including ventilated façades) and plinths (including for insulation work) in private homes, apartment blocks, public buildings, etc. The boards are also used for finishing balconies, sound insulation and the construction of windbreaks.

Thanks to their mechanical strength and wide range of colours, the panels are suitable as decorative interior elements for wall finishing. The panels are also suitable for applications requiring additional fire safety requirements and where resistance to environmental influences is important.

Properties:

- Fireresistance class A2-s1 d0
- Material safe for the environment and people
- Easy to work with and install
- Moisture-resistant
- Excellent sound insulation

Colours:

Available in any shade according to the RAL / NCS catalogue.

RAL 1003 Yellow	RAL 2011 Dark orange	RAL 5026 Blue	RAL 6035 Green	RAL 7031 Grey

Please note that the actual colour may differ from that shown in the images!

Dimensions:

Standard sizes: 1200 mm x 2800 mm. Standard thicknesses: 8 mm, 10 mm. Other thicknesses are available to order (up to 20 mm).

If required, the sheets can be cut to the required dimensions at the factory in accordance with the specifications.



Tempsi Select B1 is a cement-bonded particleboard with a smooth, natural cement grey surface. The board is manufactured by compressing a mixture of wood chips (28%), Portland cement (61%), water (10%) and a hydration additive (1%). The boards combine the best properties of cement and wood. The boards are fire-resistant and provide good insulation.

A technology unique in Europe has been adopted in production, ensuring a smoother and higher-quality board surface than usual.

Application areas:

Tempsi Select B1 boards are a building material with excellent properties, used primarily as a structural material in floor systems, walls, ceilings and plinths, in roof construction, in the upper parts of attics and in lift shafts.

They are also suitable for ventilated facades and balconies; in applications where moisture resistance, mechanical strength, fire resistance and high hygiene standards are required.

Properties:

- Fire resistance class B1-s1 d0
- Easy to work with
- Moisture-resistant
- Safe for people and the environment
- Resistant to cold, mould and insects

Colour: grey

Dimensions:

Full size: 1200 mm × 2400 mm, 1200 mm × 2600 mm.
Standard size: 1200 mm × 595 mm, 1200 mm × 720 mm.
Standard thicknesses: 8 mm, 10 mm.
Other sizes and thicknesses (up to 40 mm) are available to order.

Tempsi Select B1 panels can be ordered with rounded or milled edges (at a 45-degree angle), sanded from 12 mm thickness with partial grooving or – from 16 mm – with full-perimeter grooving.

CNC milling is available to order.



Tempsi Select HD is smooth and natural cement-based surface. The board is manufactured from wood chips, Portland cement, water and hydration additives compression. The boards combine the best properties of cement and wood. The boards are fire-resistant and provide good insulation.

Thanks to its excellent dense structure, Tempsi Select HD offers greater strength and durability and meets fire resistance class A2 (non-combustible).

Application areas:

Tempsi Select HD boards are a building material with excellent properties, used primarily in the construction of floor systems, walls, ceilings and plinths, roofs, upper parts of attics and lift shafts.

The boards are also suitable for the construction of ventilated facades and balconies, as well as in applications where moisture resistance, mechanical strength, fire resistance and high hygiene standards are required.

Properties:

- Fire resistance class A2-s1 d0
- Easy to work with
- Moisture-resistant
- Safe for people and the environment
- Resistant to cold, mould and insects

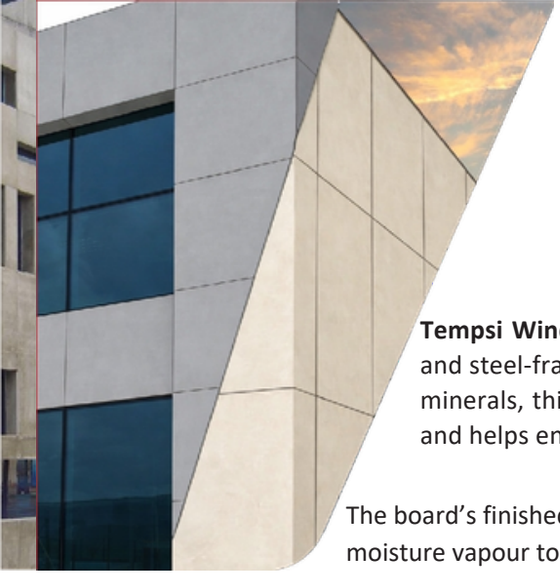
Colour: grey

Dimensions:

Full size: 1200 mm × 2800 mm, 1200 mm × 3000 mm.
Standard dimensions: 1200 mm × 595 mm, 1200 mm × 720 mm.
Standard thickness: 8 mm, 10 mm.
Other dimensions and thicknesses (up to 40 mm) are available to order.

Tempsi Select HD panels can be ordered with rounded or chamfered edges (at a 45-degree angle), sanded with partial grooving from 12 mm thickness or full grooving from 16 mm thickness.

CNC milling is available to order.



Tempsi Wind-Barrier Hydro is a rigid and durable wind barrier board suitable for use in timber and steel-framed wall structures in residential and commercial buildings. Made from cement and minerals, this fibre cement board offers effective protection against moisture, weather and fire, and helps ensure the long-term durability of structures.

The board's finished edges prevent water, air and wind from entering the structure, whilst allowing moisture vapour to escape from the building. This helps to balance air pressure within the ventilation gap and improves the building's resistance to strong winds. The sheet does not absorb moisture, is mould- and microbe-resistant, and retains its properties even under challenging construction and weather conditions.

Tempsi Wind-Barrier Hydro protects structures from moisture damage and rot even during construction. When installed correctly, the board provides temporary weatherproofing and allows the building to be sealed off even before the final façade cladding is installed. If the joints are properly taped with wind barrier tape, the board can remain uncovered for a longer period, and the façade can be installed within 12 months.

In addition, the board also enhances the building's fire safety. Tempsi Wind-Barrier Hydro is certified to a high fire safety class, and its non-combustible properties help prevent the formation of smoke and burning particles in the event of a fire. This gives designers, architects and builders the confidence to create safer and more durable external envelopes, even in demanding projects.

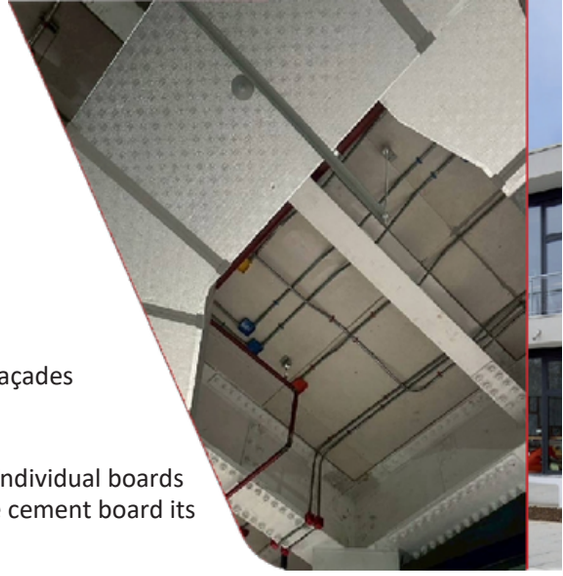
Properties:

- Fire resistance class A1-s1 d0
- Easy to work with
- Weather-resistant
- Safe for people and the environment
- Maintenance-free

Colour: grey

Dimensions:

Full size: 1200 mm × 2800 mm
Standard thickness: 6 mm, 9 mm.
Other dimensions and thicknesses (up to 40 mm) are available to order.



Tempsi Fortis is an untreated fibre cement board whose natural surface beautifully highlights the authentic look characteristic of fibre cement. It is suitable for use on façades where the aim is to achieve a natural and unfinished appearance.

This is a building board made from natural materials, and the colour and texture of individual boards may vary slightly. It is precisely these natural variations that give the untreated fibre cement board its distinctive and authentic appearance.

Application areas:

Tempsi Fortisis a high-quality fibre cement board used both as a building board and as part of a ventilated façade system. The boards can be left unfinished or painted with a diffusion-type masonry or concrete paint.

In addition, Tempsi Fortis is well suited for use in interior design, including in more demanding conditions where material durability and a timeless appearance are essential.

Properties:

- Fire resistance class A1 s1-d0
- Easy to maintain
- Durable
- Weather-resistant

Colour: grey

Dimensions:

Standard size: 1200 mm x 2400 mm,
1200 mm x 3000 mm
Standard thickness: 8 mm, 10 mm

If required, the boards can be cut to the required dimensions at the factory in accordance with the specifications.

Tempsi FireStop is a homogeneous, heat-insulating calcium silicate board designed for passive fire protection in building structures and ventilation systems. Thanks to its non-combustible composition and ease of processing, it is well suited to solutions where fire safety, reliability and a clean finish are important. The surface of the Tempsi FireStop board is sanded, making it suitable for use in interior finishing.

Application areas:

The board is used in building structures and ventilation systems where a reliable passive fire protection solution is required. The material can be processed using standard woodworking equipment and tools.

Properties:

- Fire resistance class A1
- In the event of a fire, it does not emit hazardous smoke or burning particles
- Easy to cut and install
- Good chemical resistance

Colour: grey

Dimensions:

Standard size:1200 mm x 2400 mm
Standard thickness: 12 mm

If required, the sheets can be cut to the required dimensions at the factory in accordance with the specification.



SILBONIT is an asbestos-free, double-pressed and autoclave-cured fiber cement sheet. The sheet is reinforced with mineralized cellulose fibers and is mass-colored, with a smooth surface and straight edges. SILBONIT sheets are CE marked in accordance with the EN 12467 standard. The excellent mechanical properties of the slab make it one of the best finishing materials for reliable and elegant high-quality solutions. Solid-colored slabs are available with Hydro or HydroPlus coating.

Application areas:

SILBONIT panels have been developed for exterior finishing. SILBONIT products are used for the construction of ventilated facades; the panels are modern, durable and lightweight. They can also be used indoors for design solutions.
Natural coloring and some minor variations are characteristic Properties and effects of this product. It is important to note that there may be color variations between different batches and that each panel is unique.
Due to the production process, there may be greater color variations on the back of the panel. The panel may not be suitable for use where both sides are visible.
Please note that the color may differ from that shown in the pictures. There are color variations between different batches.

Dimensions:

Standard size: 1200 mm x 2400 mm, 1200 mm x 3000 mm

Standard thickness: 8 mm, 10 mm

Properties:

- Fire resistance class A2 s1 d0
- Easy to prepare
- Easy to install
- Excellent mechanical strength
- Resistant to mould, fungi and pests

Colours:

12 different mass-colored shades and a smooth surface texture give SILBONIT Hydro and HydroPlus cladding panels an exceptionally natural look.

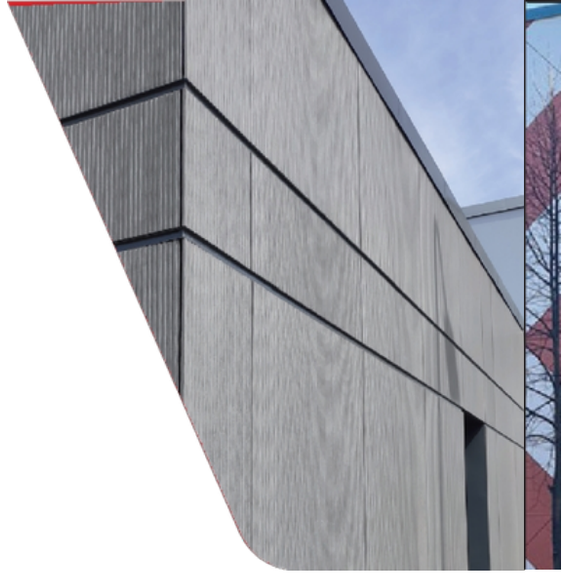


Superbianco *Pietra* *Naturale* *Grey* *Chalkboard* *Yellow* *Green*



Rosso *Terracotta* *Terra* *Desert* *Parchment*

Please note that the colour may differ in reality from that shown in the images. There may be slight variations in shade between different batches.



Groove

Properties:

- Excellent mechanical resistance
- The grooves in the tiles run lengthways only
- Easy preparation and installation
- Resistance to mould, fungi and pests
- The natural colour is a characteristic feature and effect of this product

Colours:

Available in 12 mass-colored shades with a Hydro or HydroPlus finish.



Bianco *Pietra* *Naturale* *Grigio* *Lavagna* *Yellow* *Green*



Red *Terracotta* *Earth* *Desert* *Parchment*

Please note that the colour may differ in reality from that shown in the images. There may be slight variations in shade between different batches.

Rigo

Properties:

- Excellent mechanical durability
- Easy preparation and installation
- Resistance to mould, fungi and pests
- The natural colour is a characteristic feature and effect of this product.

Colours:

Available in 12 mass-colored shades with Hydro or HydroPlus coating.



Bianco Rigo *Pietra Rigo* *Naturale Rigo* *Grigio RigoL* *Avagna Rigo* *Yellow Rigo* *Green Rigo*



Red Rigo *Terracotta Rigo* *Terra Rigo* *Desert Rigo* *Parchment Rigo*

Please note that the actual colour may differ from that shown in the images. There may be slight variations in shade between different batches.



Silbonit Pigmenta

Mass-colored or natural Silbonit fibre cement board, primed and coated with a special weather-resistant paint and a UV varnish layer, which provides additional protection against graffiti and increases resistance to fading.

Properties:

- Fire resistance class A2 s1 d0
- Easy to prepare
- Easy to install
- Excellent mechanical strength
- Resistant to mould, fungi and pests

Colours:

Available in any shade according to the NCS catalogue (minimum order 300 m² per colour at no extra charge).



Please note that the actual colour may differ from that shown in the images. There may be slight variations in shade between different batches.

Silbonit Spectra

Mass-colored or natural Silbonit fibre cement board, primed and coated with a special weather-resistant paint.

Properties:

- Excellent mechanical strength
- Easy preparation and installation
- Resistance to mould, fungi and pests

Colours:

Available in any shade according to the NCS catalogue (minimum order 300 m² per colour at no extra charge).



Please note that the actual colour may differ from that shown in the images. There may be slight variations in shade between different batches.



Tempsi Plank is a fibre cement board with a painted wood texture, designed for finishing interior and exterior walls and ceilings. The boards are made from natural cellulose fibre and high-quality Portland cement. As elegant as natural wood, but stronger and more durable.

The boards can be installed horizontally, vertically, in a 'triangular' “overlapping”.

Application areas:

Wall finishing for both interior and exterior applications. Finishing and renovation of facades (including ventilated facades) in detached houses, apartment blocks, public buildings, etc. Ceiling finishing.

Properties:

- Fire resistance class A2
- High durability
- High flexibility
- Sound insulation
- Natural appearance and texture
- Easy to maintain
- Resistant to various weather conditions
- Safe for health and therefore suitable for indoor use

Colours:

In additionto standard colours, also available in primed white and in any shade according to the RAL / NCS catalogue.



RAL 7015 slate grey



RAL 7036 platinum grey



RAL 8011 walnut brown



RAL 9001 cream/pear l white

Dimensions:

Standard dimensions: 200 x 1800 mm; 200 x 3660 mm.
Standard thickness: 8 mm.



Tempsi Profil Plank is a fibre cement board with a painted wood texture that imitates traditional timber, designed for finishing interior and exterior walls and ceilings. The boards are made from natural cellulose fibre and high-quality Portland cement. As elegant as natural wood, but stronger and more durable.

The boards can be installed horizontally, vertically, in a 'triangular' pattern.

Application areas:

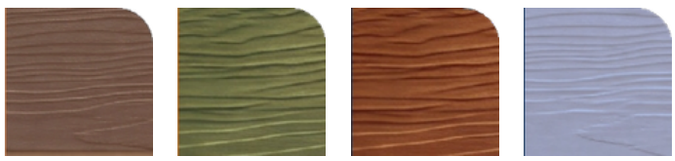
Wall cladding for both interior and exterior use. Cladding and renovation of façades (including ventilated façades) in private homes, apartment blocks, public buildings, etc. Ceiling cladding.

Properties:

- Fire resistance class A2
- High durability
- High flexibility
- Sound insulation
- Natural appearance and texture
- Easy to maintain
- Resistant to various weather conditions
- Safe for health and therefore suitable for indoor use

Colours:

Available in any shade according to the RAL / NCS catalogue. Base colour is white primer.



RAL 7037
dust grey

RAL 6003
olive green

RAL 8012
reddish brown

RAL 5014
dove blue

Dimensions:

Standard dimensions: 150 x 1800 mm; 150 x 3660 mm.
Standard thickness: 10 mm.



Tempsi Edge is a primed fibre cement strip, ideal for finishing window and door reveals, accentuating building corners and creating various decorativedetails. The mouldings can be both interior as exterior finishes to give the building a clean line and a polished look.

In addition is Tempsi Edge well linear load and sun protection slats. In this case, it serves both an aesthetic and a practical purpose, helping to improve ventilation and reduce the internal temperature of the building. It is therefore also well suited to regions with warmer climates.

The Tempsi Edge profile is 10 mm thick and available in various sizes. Profiles of the appropriate width allow for the creation of symmetrical and right-angled solutions. They can be used around windows and doors, as panels on interior walls, or as cladding on exterior walls.

Thanks to its robust construction, Tempsi Edge is durable and withstands temperature and weather changes well. The mouldings do not shrink or crack, are resistant to moisture and rot, and retain their appearance and shape for longer than traditional wooden mouldings.

Tempsi Edge is characterised by a texture reminiscent of natural wood, which gives the building a warm and visually appealing appearance. As the boards are primed, they are ready for painting and are easy to match with various interior and exterior finishing solutions.

Properties:

- Primed, ready for painting
- Designed for uniform and right-angled corners
- Moisture and rot resistant
- Retains its pristine appearance for longer than traditional wooden skirting boards
- Can be used to complement a variety of interior and exterior finishing systems

Dimensions:

10 x 100 x 1800 mm
10 x 100 x 3660 mm



Tempsi Base / Cetris Basic is a cement-bonded particleboard with a smooth and natural cement grey surface. The board is manufactured by compressing a mixture of wood chips (63%), Portland cement (25%), water (10%) and hydration additives (2%).
The boards combine the best properties of cement and wood. The boards are fire-resistant and provide sound insulation.

Application areas:

CETRIS / Tempsi boards are a building material with excellent properties, used mainly in ventilated façade systems and a structural material in floor systems, walls, ceilings and plinths, roofs, attic upper parts and lift shafts. Boards are also suitable for balconies, as well as in applications where moisture resistance, mechanical strength, fire resistance and high hygiene requirements are necessary.

Properties:

- Easytowork with
- Moisture resistance
- Safe for people and the environment
- Fire resistance – A2 (non-flammable)
- Resistant to cold, mould and insects.



Colour: grey

Dimensions:

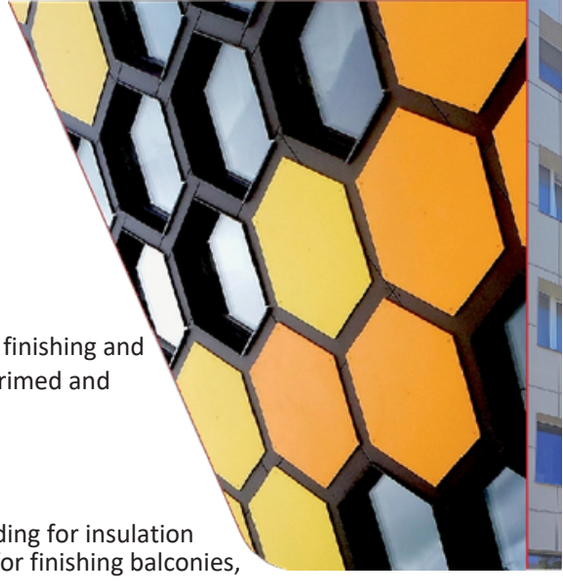
Tempsi Base standard dimensions: 1250 mm x 2600 mm, 1250 mm x 745 mm, 1250 mm x 600 mm.

Cetris Basic full size: 1250 mm x 3350 mm.
Standard thicknesses: 8 mm, 10 mm, 12 mm, 16 mm.

Other thicknesses are available to order (up to 40 mm). Other sizes and thicknesses are available to order.

Tempsi Base boards can be ordered with rounded or milled edges (at a 45-degree angle), sanded from 12 mm thickness with partial grooving or – from 16 mm – with full-perimeter grooving.

CNC milling is available to order.



Tempsi Optima Colore is decorative and environmentally friendly fibre cement finishing and construction board, which is made entirely from natural materials. The tile is fully primed and coated with weather-resistant layer of paint.

Application areas:

Finishing and renovation of façades (including ventilated façades) and plinths (including for insulation work) in private homes, apartment blocks, public buildings, etc. They are also used for finishing balconies, sound insulation and the construction of windbreaks.
Thanks to their mechanical strength and wide range of colours, the panels are suitable as decorative interior elements for wall finishing. The panels are also suitable for applications requiring additional fire safety requirements and where resistance to environmental influences is important.

Properties:

- Fire resistance class A2-s1 d0
- Material safe for the environment and people
- Easy to work with and install
- Moisture-resistant
- Excellent sound insulation

Colours:

Availableinanyshade according to the RAL / NCS catalogue.

Dimensions:

Standard sizes:1200 mm x 2800 mm.
Standard thicknesses: 8 mm, 10 mm.
Other thicknesses are available to order (up to 20 mm).
If required, the panels can be cut to size at the factory in accordance with specifications.

Tempsi Colore is a decorative and environmentally friendly finishing cement bonded particleboard, which is first primed and then covered with a special weather-resistant layer of paint.

Application areas:

Finishing and renovation of façades (including ventilated façades) and plinths (including for insulation work) in private houses, apartment buildings, public buildings, etc. They are also used for finishing balconies, sound insulation and wind barriers. Thanks to their mechanical strength and wide range of colors, the boards are suitable for use as decorative interior elements for finishing walls. The boards are also suitable for use in areas that require additional fire safety requirements and where resistance to environmental influences is important.

Properties:

- Fire resistance class (B-s1 d0)
- Easy to install
- Easy to maintain
- Mould-resistant
- Resistant to various environmental factors (UV radiation, cold, precipitation)

Colours:

Available in any shade according to the RAL / NCS catalogue.

Dimensions:

Standard sizes: 1250 mm x 3350 mm.
Standard thicknesses: 8 mm, 10 mm, 12 mm. Other thicknesses are available toorder (up to 40 mm).
If required, the sheets can be cut to the required dimensions at the factory in accordance with the specifications.



RAL 1003 Yellow | *RAL 2011 Dark orange* | *RAL 5026 Blue* | *RAL 6035 Green* | *RAL 7031 Grey*

Please note that the actual colour may differ from that shown in the images!



Tempsi Granito is a decorative, environmentally friendly finishing cement bonded particleboard covered with a special UV-resistant epoxy adhesive and natural stone chips. Suitable for outdoor use. The edges of the board are covered with stone chip-colored epoxy adhesive.

Application areas:

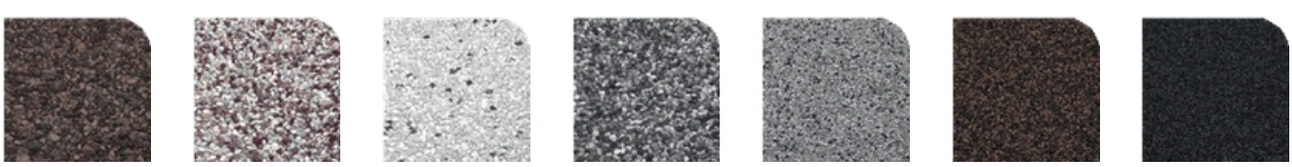
Finishing and renovation of facades (including ventilated facades) in private houses, apartment buildings, public buildings, etc. Finishing of balconies, sound insulation.

Properties:

- Fireresistance class B1-s1, d0
- Material safe for the environment and people
- Easy to work with
- Easy to install
- Moisture-resistant
- Excellent sound insulation

Colours:

Available in 13 different shades.



10R
Natural brown

13R
Walnut

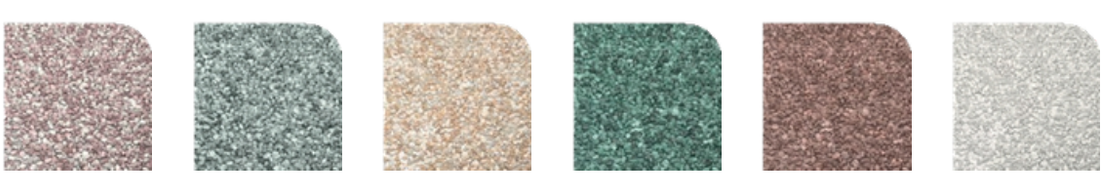
21R
White

30R
Dark grey

33R
Granite grey

34R
Granite red

35R
Black



83R
Pink

84R
Green

85R
Yellow

87R
Alpine green

88R
Verona red (rosso)

94R
Beige

NB! Please note that the actual colour may differ from that shown in the images. There may be slight variations in shade between different batches.

Dimensions:

Standard sizes: 1250 mm x 2600/3350 mm.
Standard thicknesses: 8 mm, 10 mm, 12 mm, plus a stone aggregate of 1–3 mm.
Other thicknesses are available to order (up to 40 mm).

If required, the slabs can be cut to the required dimensions at the factory in accordance with the specifications.



Tempsi Zoccolo Granito is a decorative, environmentally friendly finishing board covered with a special UV-resistant epoxy adhesive suitable for outdoor use and natural stone chips. The edges of the cement tile are covered with stone chip-colored epoxy adhesive.

Application areas:

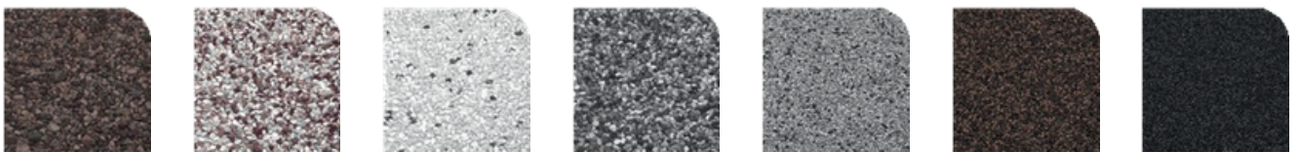
Finishing and renovation of plinths in private houses, apartment buildings, public buildings, etc.

Properties:

- Fireresistance B1-s1, d0
- A material that is safe for the environment and people
- Easy to work with
- Easy to install
- Moisture-resistant
- Excellent sound insulation

Colours:

Available in 13 different shades.



10R
Natural brown

13R
Walnut

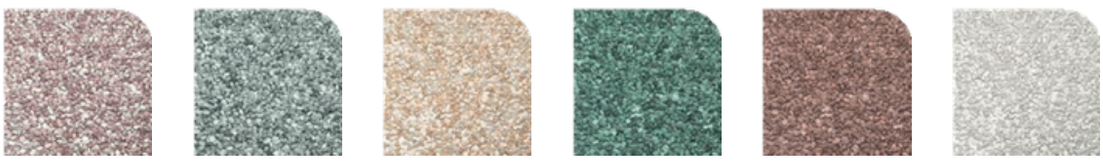
21R
White

30R
Dark grey

33R
Granite grey

34R
Granite red

35R
Black



83R
Pink

84R
Green

85R
Yellow

87R
Alpine green

88R
Verona red (rosso)

94R
Beige

NB! Please note that the actual colour may differ from that shown in the images. There may be slight variations in shade between different batches.

Dimensions:

Standard sizes: 1250 mm x 600/745 mm.
Standard thicknesses: 8 mm.

NB! If required, the panels can be cut to the required dimensions at the factory in accordance with the specifications.



ASD Laminat Exterior is a highly durable composite material manufactured at high temperature under high pressure. The core of the material consists of wood layers based on untreated fibre kraft paper impregnated with phenolic resins. Its decorative surfaces are made from cellulose paper impregnated with thermosetting resins on a wood fibre base, reinforced with a UV- resistant film.

Application areas:

ASD Exterior panels are designed for all outdoor applications. ASD Exterior is ideal for renovating old buildings, adding an additional layer of insulation. In addition to being used as facade cladding, they are also suitable for other outdoor applications, such as balconies, outdoor furniture, sunshades, canopies, parapets, eaves, decorative fences, window shutters, etc.

Properties:

- Long service life and excellent impact resistance
- Optimal fire resistance
- Resistance to mould and rot
- Easy to work with and install
- Resistance to weather conditions, water, heat, cold and UV radiation

Colours:

ASD Exterior is available in more than 90 standard designs and colours. This catalogue shows only a selection of the available designs. Please contact us for further information.

Standard monoliths:



Silver Brunia | *Siberian Squill* | *Almond Butter* | *Green Jade* | *Orange BegoniaP* | *ink Kunzite* | *Obsidian Grey*

Wood imitation:



Kinsale Oak | *Caucasian Walnut* | *Killarney Oak* | *Kinsale Oak*

Stone imitation

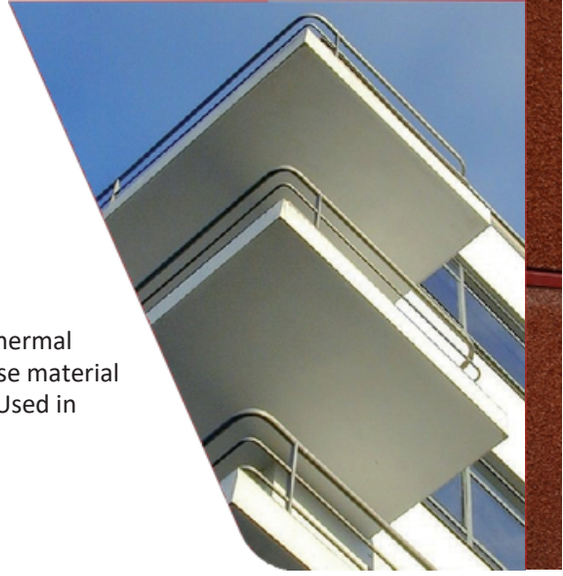


Silverton Stone | *Silverton Stone* | *Longmont Stone*

Please note that the colour may differ in reality from that shown in the images. There may be slight variations in shade between different batches.

Dimensions:

Standard sizes: 1300 mm x 3050 mm, 1000 mm x 2150 mm, 1220 mm x 2440 mm.
Thickness: 6 mm, 8 mm.



Aquafire cement composite panels are lightweight, fireproof and have excellent thermal insulation properties. The panels do not deform or crumble and are an excellent base material for ceramic tiles, glass mosaics, brick cladding or other types of cladding materials. Used in ventilated facade systems without joints.

Application areas:

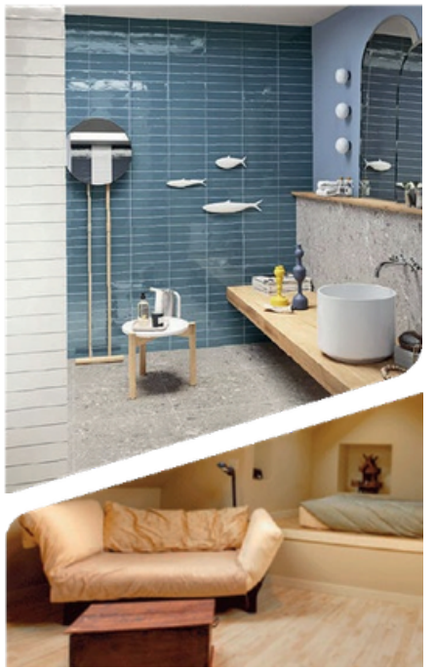
Aquafire panels are also highly resistant to chemical and biological influences, making them suitable for use both indoors and outdoors, including in ventilated facades of buildings, external non-load-bearing structures, curved surfaces, floors, roofs and canopies, balconies and terraces, attics, wine cellars and technical rooms.
Ideal for rooms with high humidity levels – shower rooms, bathrooms, swimming pools, spas, saunas, dry cleaners and kitchens. As a covering material in areas subject to high temperatures, such as chimneys and boiler rooms.
The tiles have a bending radius of 2 m, making them ideal for use in curved buildings and interior surfaces.
Aquafire tiles can be plastered.

Properties:

- Fireresistance class A1
- Extremely easy to cut
- High insulation value
- Suitable for indoor and outdoor use
- Does not rot, deform, crack or crumble
- High resistance to water, chemical and biological influences

Dimensions:

Standard size: 1200 mm x 2000 mm.
Thickness: 12.5 mm.





Screw for timber frames, large-head Tempsi

SWC screw for fixing construction and cladding boards to timber. Large-head timber screw.

Stainless steel. Corrosion class C3.

Screw dimensions: 4.5 mm x 40 mm.



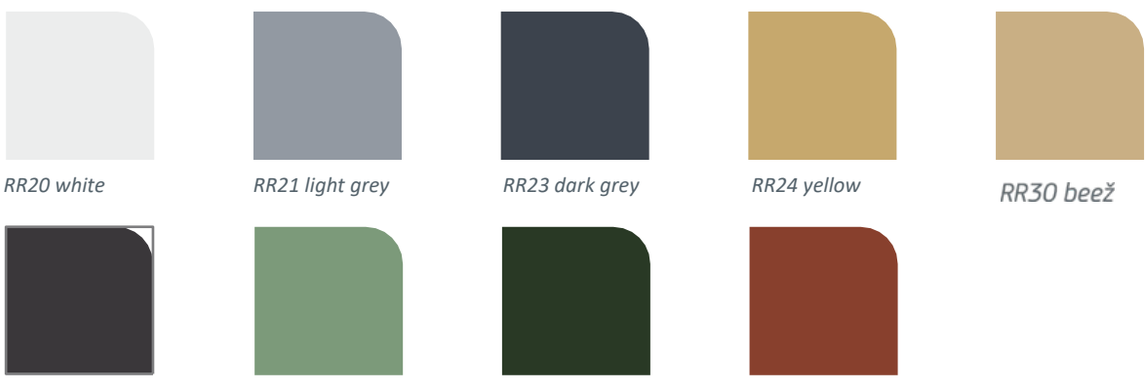
Screw for metal frames

Tempsi SMC screw for fixing construction and façade panels to metal.
Large-head metal screw. Stainless steel.
Corrosion class C3.

Screw dimensions: 4.2 mm x 30 mm.



Colours:



RR20 white *RR21 light grey* *RR23 dark grey* *RR24 yellow* *RR30 beež*

RR32 dark brown *RR36 green* *RR11 olive green* *RR750 red*

Aquafire® STAR screw

AQUAFIRE® STAR screws are ideal for fixing Aquafire panels to steel structures with a thickness of 0.6 mm to 1 mm. The screws are self-tapping and self-drilling.

Screw dimensions: 4 mm x 41 mm.

Elastic PVC foam joint tape / EPDM foam rubber seal

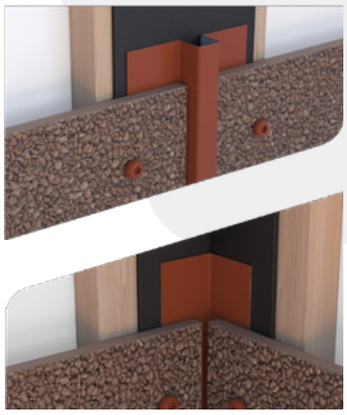
The joint tape/sealis suitable for sealing between façade panels and the frame, as well as between the plinth and the supporting structure. Joint tape is used in construction for air, heat and moisture insulation and for finishing the joints between facade panels. The widely used elastic PVC foam joint tape is coated on the underside with acrylic adhesive with good adhesion and on the top with protective, removable silicone paper. The joint tape is a material with good adhesion and water resistance that is UV and weather resistant.

	PVC joint tape	EPDM tape
Colors	White, black, light grey	Black
Dimensions	White: 1mm x 50mm, 25 m roll; black and light grey: 1mm x 50mm, 50 m roll	1mm x 30mm, 20 m roll 1mm x 50mm, 20 m roll 1mm x 90mm, 20 m roll

Joint strip for vertical joints

The jointstrip finishesthe vertical joints between façade panels and prevents direct UV radiation and rainwater from reaching the framework.

Joint strip dimensions: length 2 m, sides 2.3 cm, external corner dimension 1 cm. Joint strips in colours RR21 and RR750 are also available in a length of 1.25 m.



Internal corner strip for joints between façade panels

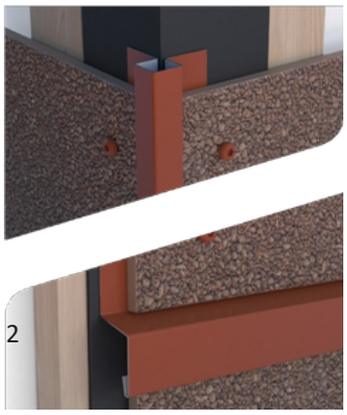
The internal corner strip finishes the joint between façade panels and prevents direct UV radiation and rainwater from reaching the framework.

Internal corner bead dimensions: length 2 m, side height 2 cm.

External corner bead for joints between façade panels

The external corner bead finishes the joints between façade panels and prevents direct UV radiation and rainwater from reaching the framework.

External corner strip dimensions: length 2 m, side height 1.8 cm.



Drip strip for horizontal joints

The drip cap finishes the horizontal joints between the façade panels and prevents direct UV radiation and rainwater from reachingto the frame.

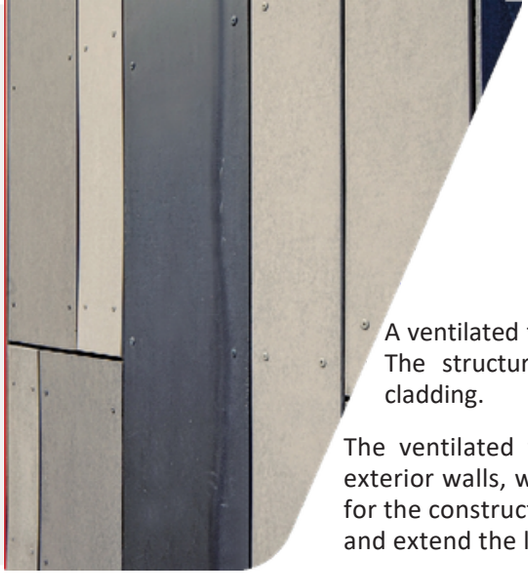
Dimensions of the drip strip: length 2 m, top edge 2 cm, centre section 1.5 cm, bottom edge 2 cm. Drip strips in colours RR21 and RR750 are also available in a 1.25 m length.

Application of battens

- A suitable strip must be used at the junction of façade panels to fill the joint between the panels.
- A joint between two façade panels is necessary to provide expansion space for the panels due to moisture.
- By using a strip to fill the gap between façade panels, direct rainwater and UV radiation are prevented from reaching the façade structure, thereby ensuring the façade's long service life.
- The strip compensates for installation inaccuracies and ensures an attractive finish to the façade.

The strips are coated with weather-resistant paint.

Colour options for 2 m joint strips:	Suitable for panel colour codes:
RR20 white	21R, 83R; 85R; 94R
RR21 light grey	33R
RR23 dark grey	30R; 35R
RR24 yellow	85R
RR30 beige	83R; 85R; 94R
RR32 dark brown	10R; 34R
RR36 green	87R
RR11 olive green	84R; 87R
RR750 red	13R; 34R; 88R



A ventilated facade is an easy-to-install structure that is attached to the exterior wall of a building. The structure consists of interconnected facade brackets, load-bearing profiles and facade cladding.

The ventilated facade system is one of the most technologically advanced methods of finishing exterior walls, which has been used for decades. Requirements and standards have been established for the construction of ventilated facades to protect the walls of buildings from the effects of weather and extend the life of the building.

Why choose a ventilated façade?

- Ventilated facades can be installed in any season.
- A ventilated façade allows for effective insulation of walls by installing insulation on the outside of the building.
- A ventilated façade ensures optimal air and vapor circulation in the building structures, removing excess moisture from the building structures, thereby extending the life of the building and creating a suitable microclimate.
- The low weight of a ventilated façade allows it to be installed on all types of load-bearing walls. The finishing panels can be replaced without changing the load-bearing structure.
- A ventilated façade ensures air flow along the façade, thereby slowing down the cooling of walls in winter and overheating in summer.

We offer aluminium profiles, aluminium or stainless steel fasteners, as well as various accessories (screws, EPDM seals, etc.) for the construction of ventilated façade frame systems.
We recommend constructing ventilated facade systems with stainless steel fasteners or aluminium L and T profiles. Stainless steel fittings reduce heat loss and increase the energy efficiency of the building.

Type of metal	Thermal conductivity (λ), W/mK
Aluminium	220
Steel (galvanized)	50
Stainless steel	17

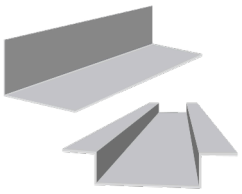
For each project, the thermal conductivity coefficient must be calculated separately, taking into account the thickness of the thermal insulation, the U-value of the existing wall, and the quantities and parameters of the load-bearing elements and fasteners.

Example: existing wall U-value – 0.86 W/m²K, target value 0.18 W/m²K. Insulation material – mineral wool.

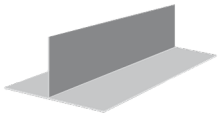
U-value of the entire insulated wall W/m²K	0.18
When using stainless steel fasteners	150 + 30 (mm)
When using galvanized steel fasteners	200 + 30 (mm)

The table shows that when using stainless steel brackets, the required thickness of thermal insulation is almost half that required for the same wall U-value.

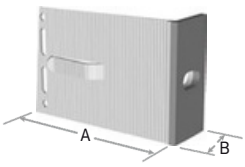
L-profile	Lenght	A (mm)	B (mm)	T (mm)	Lenght (mm)
Aluminiumprofile	L-6m	40	50	1,8	6 000
Aluminiumprofile	L-6m	50	50	1,2	6 000
Aluminiumproile	L-6m	40	20	1,2	6 000
Omega profile	L-6m	20/20	60/100	1,8	6 000



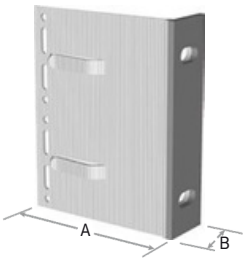
T-profile	Lenght	A (mm)	B (mm)	T (mm)	Lenght (mm)
Aluminiumprofile	L-6m	60	50	1,8	6 000
Aluminiumprofile	L-6m	80	50	1,8	6 000
Aluminiumprofile	L-6m	110	20	1,8	6 000
Aluminiumprofile	L-6m	120	50	1,8	6 000



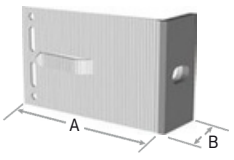
Aluminum mounting bracket	A (mm)	B (mm)	T (mm)	Height (mm)
Facade mounting bracket	60	40	3	70
Facade mounting bracket	80	40	3	70
Facade mounting bracket	100	40	3	70
Facade mounting bracket	120	40	3	70
Facade mounting bracket	150	40	3	70
Facade mounting bracket	180	40	3	70
Facade mounting bracket	210	40	3	70
Facade mounting bracket	240	40	3	70



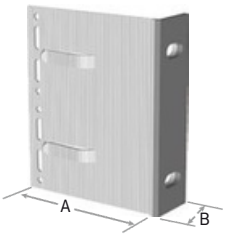
Aluminum mounting bracket	A (mm)	B (mm)	T (mm)	Height (mm)
Facade mounting bracket	60	40	3	140
Facade mounting bracket	80	40	3	140
Facade mounting bracket	100	40	3	140
Facade mounting bracket	120	40	3	140
Facade mounting bracket	150	40	3	140
Facade mounting bracket	180	40	3	140
Facade mounting bracket	210	40	3	140
Facade mounting bracket	240	40	3	140



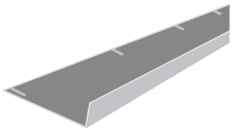
Stainless steel mounting bracket	A (mm)	B (mm)	T (mm)	Height (mm)
Facade mounting bracket	64	42	1,5	70
Facade mounting bracket	92	40	1,5	70
Facade mounting bracket	126	40	1,5	70
Facade mounting bracket	152	40	1,5	70
Facade mounting bracket	187	40	1,5	70
Facade mounting bracket	210	40	2	70
Facade mounting bracket	238	40	2	70
Facade mounting bracket	273	40	2	70
Facade mounting bracket	300	40	2	70
Facade mounting bracket	317	40	2	70
Facade mounting bracket	376	40	2	70



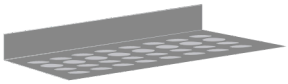
Stainless steel mounting bracket	A (mm)	B (mm)	T (mm)	Height (mm)
Facade mounting bracket	64	42	1,5	140
Facade mounting bracket	92	40	1,5	140
Facade mounting bracket	126	40	1,5	140
Facade mounting bracket	152	40	1,5	140
Facade mounting bracket	187	40	1,5	140
Facade mounting bracket	210	40	2	140
Facade mounting bracket	238	40	2	140
Facade mounting bracket	273	40	2	140
Facade mounting bracket	300	40	2	140
Facade mounting bracket	317	40	2	140
Facade mounting bracket	376	40	2	140



Base profile - plinth profile		A (mm)	B (mm)	T (mm)	Lenght (mm)
Aluminum base profile	L-2m	100	20	0,8	2 000
Aluminum base profile	L-2m	130	20	0,8	2 000
Aluminum base profile	L-2m	150	20	0,8	2 000
Aluminum base profile	L-2m	180	20	0,8	2 000
Aluminum base profile	L-2m	200	20	0,8	2 000
Aluminum base profile	L-2m	220	20	0,8	2 000
Aluminum base profile	L-2m	240	20	0,8	2 000
Aluminum base profile	L-2m	260	20	0,8	2 000
Aluminum base profile	L-2m	280	20	0,8	2 000
Aluminum base profile	L-2m	300	20	0,8	2 000



Base profile – for ventilation partition wall		A (mm)	B (mm)	T (mm)	Lenght (mm)
Perforated aluminum base profile	L-2m	60	12	0,8	2 000
Perforated aluminum base profile	L-2m	90	12	0,8	2 000



Fastening elements	Ø (mm)	Lenght (mm)
Plastic anchor WKRET-MET KPR	10	80
Plastic anchor EJOT SDF-KB-10Vx50-V-SW13	10	50
Plastic anchor EJOT SDF-KB-10Vx60-V-SW13	10	60
Plastic anchor EJOT SDF-KB-10Hx80-V-SW13	10	80
DIN 7405 K A2 Self-tapping screw	4,8	16
DIN 7405 K A2 Self-tapping screw	4,8	19
DIN 7405 K A2 Self-tapping screw	4,8	22
DIN 7405 K A2 Self-tapping screw	5,5	19
A/st panel fastening rivet4,8x18/16	4,8	18
A/st panel fastening rivet 4,8x18/16 painted	4,8	18





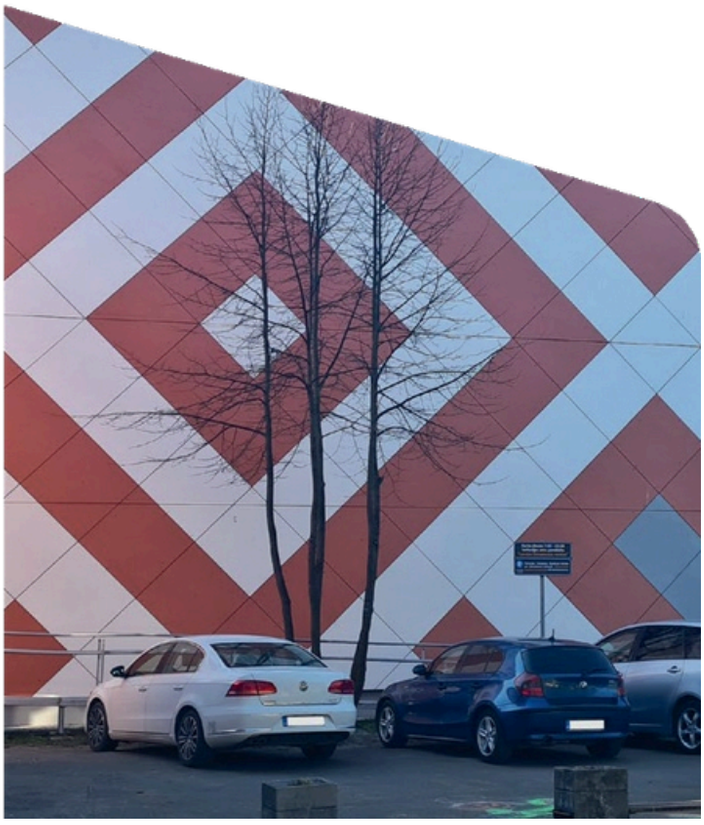


Additional elements		Width (mm)	Thickness (mm)	Lenght (mm)
EPDM tape	L-20m	30	1	20 000
EPDM tape with full adhesive	L-20m	30	1 (0,8 + 0,2)	20 000
EPDM tape	L-20m	50	1	20 000
EPDM tape	L-20m	90	1	20 000
Thermostop (thermal pad under facade mounting brackets)		40	5	140
		Material	Thickness (mm)	Lenght (mm)
Panel fixing clamp (one side)		Stainless steel	1,2	60
Panel fixing clamp (four sides)			1,2	60







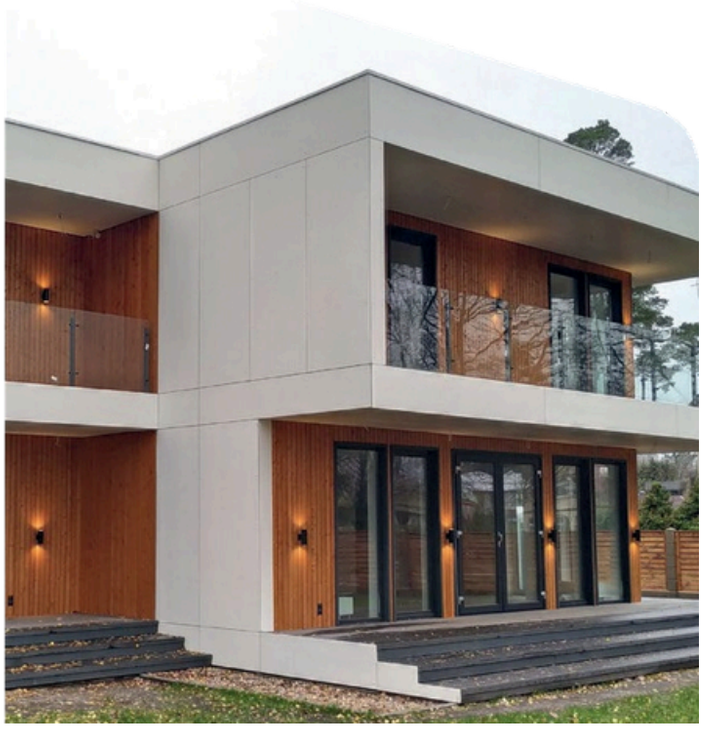


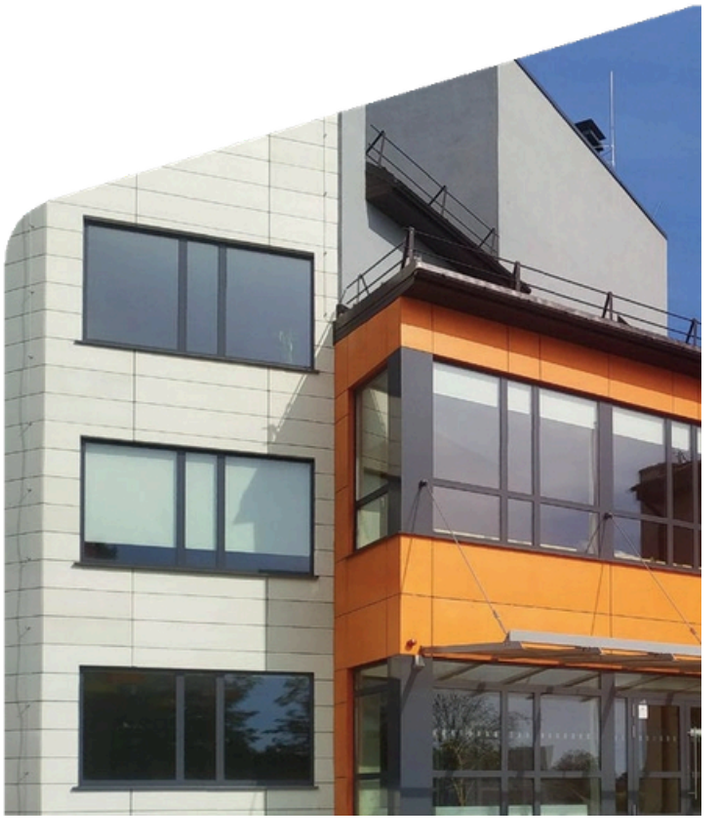














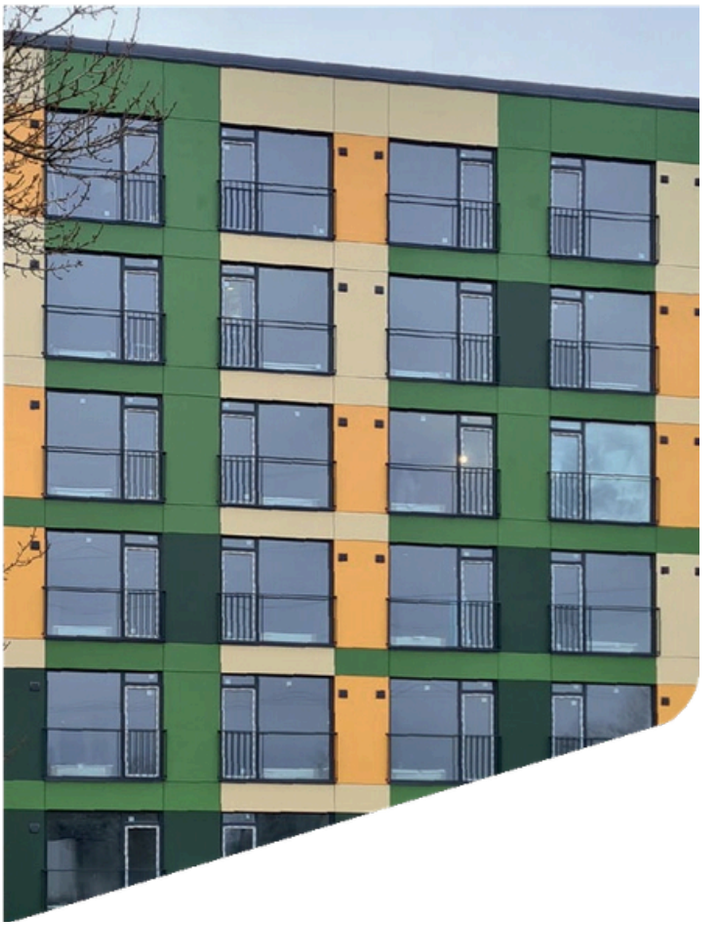




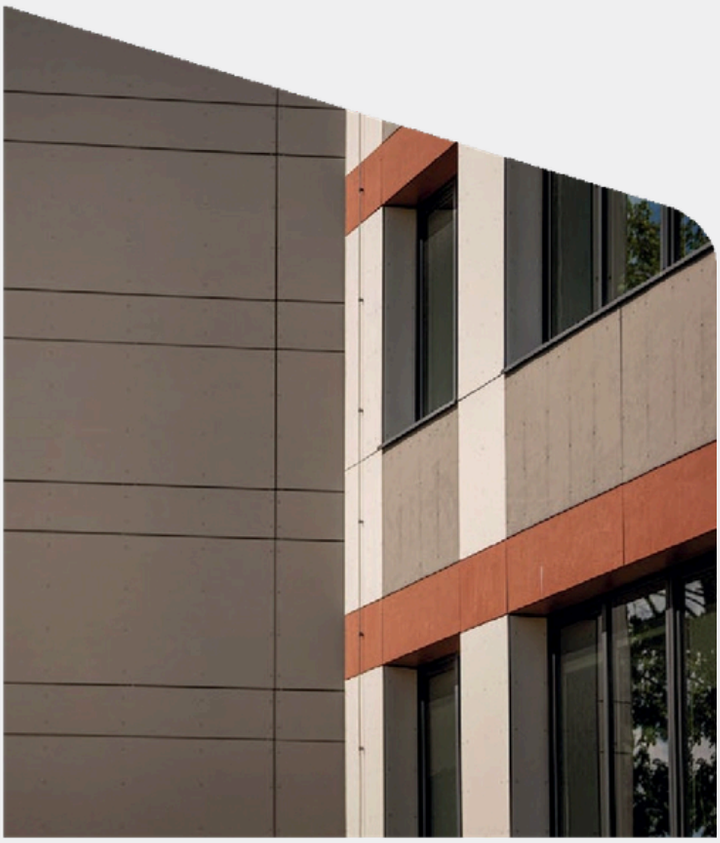




















Wolf Group



TEMPSI

We save energy / Wolf Group

Wolf Group OÜ

We offer professional advice and consultancy to architects, design firms, construction companies and individual clients.

Suur-Paala 10 Tallinn, 13169

+372 605 9301

eesti.penosil@wolf-group.com

www.tempsi.ee