



# PRODUCT CATALOGUE



Monufacturer Of Roof Coverings

Company | 03





Innovation. Highest quality of products. Creating new utility models. These are key aspects of development of BLACHOTRAPEZ. These are also values, which determine the rhythm of everyday work of our specialists. As the leader in the production of roof and facade coverings in Poland, the company with 40-year experience, we guarantee the greatest care of production process. Our experts ensure that the work is perfect from design stage, through the selection of materials and colours, production to the installation.

The covering materials by BLACHOTRAPEZ mean precision in every detail and the highest quality confirmed by written warranty for even 40 years. The reputation of BLACHOTRAPEZ's products is also supported by the quality of raw materials - the company only cooperates with the best suppliers and is a general distributor of the highest quality coverings from the steel mill thyssenkrupp Steel Europe or TATA Steel.

We do all this in order to fulfil the dreams about ideal house with you. The house covered by beautiful, rigid roof, which provides safety and comfort for the whole family.

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### 04 | Table of Contents

COMPANY	0
ROOF TILES	0
TYSENIA ENIGMA GERMANIA GERMAN TALIA DIAMENT KINGAS JANOSIK	06 08 10 12 12 14 16
ROOF PANELS	24
TROUGHED METAL SHEETS	2
T-8, T-14+, T-18 T-18+, T-20+ T-35+ T-50, T-55	
STEEL RAILS	3
COLOURS	_
	4
INNOVATIONS DEDICATED FITTINGS	4 4
TRANSPORT	4

Roof tiles | 05



# **ROOF TILES**

# LIGHT ROOF COVERAGE

Metal tiles are the universal roof coverage, which can be easily applied in various types of architecture. Metal tiles are eagerly chosen by investors, both in new building and renovations. The light weight of roof sheets is their particular advantage. 1 sq m of sheet weighs approx 4kg, that is almost 10 times less than traditional ceramic roof tiles. The light coverage neither burden nor affect the structure of the entire building

Thus, the roof sheets are the most frequently applied solution in residential, sacral, farm and public utility buildings. Designed as classic roof tiles, the products from our portfolio, such as GERMANIA SIMETRIC, GERMAN SIMETRIC, DIAMENT, KINGAS, TALIA, JANOSIK and TYSENIA combine tradition with modernity.

The fully automated production process allows for cutting sheets to the required length and therefore the delivery of most unusual orders, accompanied by a reduction of waste.

We offer roof sheets in over ten colours, coated with polyester, PLADUR<sup>®</sup> EcoProtect thyssenkrupp, aluminium and Colorcoat HPS200 Ultra<sup>®</sup> TATA Steel. The highest quality of coverage is ensured by complete systems of finishing elements, processing, flat sheets, seals and fixing accessories.



350 mm



#### Pladur® Pladur®







### HPS 200 Ultra®



Single-module roof sheet TYSENIA is a modern roof solution for investors searching for exceptional visual effect of roof surfaces. The minimalist, strict look of roof sheet is harmonized with current architectonic trends and flat shape guarantees universal application. A simple form of TYSENIA is decorated by sophisticated triple rib, and its distinctive feature is low, 2,5 mm, profile. TYSENIA may be installed both as roof coverage and original facade finishing.

## **NEW**

What's more, a flat roof sheet is light. Thanks to its lightness, it will be ideal not only for modern building, but also renovations of old buildings' roofs. The product is available in 4 coats, both in matt and gloss: Pladur<sup>®</sup> Wrinkle MAT. Pladur<sup>®</sup> Relief IceCrvstal thyssenkrupp, Colorcoat HPS200 Ultra® and in rich range of colours.





## ENIGMA

Enigma can sneak upon you even when you expect to be amazed. The first surprise is the combination of classics and modernity. The technology is available in most coatings offered by Blachotrapez. Thanks to stamping in the SPS system connected with Pladur<sup>®</sup> Wrinkle Mat Plus coating, customers receive up to 50 years of written warranty. The symmetrical profile of Enigma is unique and becomes particularly attractive in black and brick-red colours.

Interestingly, Enigma has been tailored to fulfill the expectations of the most demanding roofers. Thanks to its symmetry, it can be laid from left to right, from right to left, or arranged in a running bond pattern.

# BREAKING SPACE-TIME CONTINUUM

The arrangement can be adapted to the specific roof and made according to your own inspiration. Enigma continues to surprise not only roofers, but also homeowners and onlookers, who can admire the roof from every perspective. The innovative technology of stiffening sheets by using a bottom shelf in combination with other product features makes it currently unrivalled on the market. However, one thing should be no surprise to our customers, as it is the feature connecting all Blachotrapez products: extraordinary diligence in the selection of high-quality materials and matching modern technological solutions. Enigma has already entered with bravado into roofing classics for many generations.

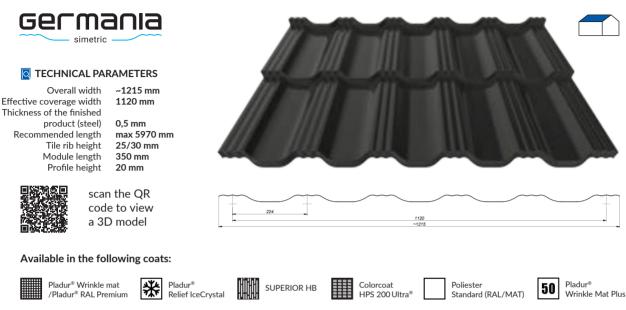
Pladur<sup>®</sup>

Wrinkle Mat Plus

50







## **GERMANIA SIMETRIC**

Considering the needs of our Customers, we take care of the highest quality of the offered products. Our products' reputation is also confirmed by the quality of raw materials supplied by the best steel mills, such as: thyssenkrupp Steel Europe and TATA Steel as well as U.S. Steel. It is the material, used in the production, that makes the model of roof sheet GERMANIA SIMETRIC characterized by increased resistance to abrasion, staining and corrosion.

When designing the roof sheet GERMANIA, we focus on sleek look, durability and economics.

# DURABLE AND BEAUTIFUL ROOF

This innovative and exceptional product is distinguished by a higher profile and a unique triple rib, giving the coverage distinct and timeless character and unconventional look. Utility model of roof sheet GERMANIA SIMETRIC is protected by the Office for Harmonisation in the Internal Market of the European Union. Design no.: 002495606-0001. The written warranty for roof sheets, depending on the type of coat, may even cover the period up to 40 years.





### **TECHNICAL PARAMETERS**

Overall width Effective coverage width Thickness of the finished product (steel) Recommended length Tile rib height Module length Profile height

~1200 mm 1144 mm 0.5 mm max 5970 mm 29/40 mm 350 mm 21 mm



scan the OR code to view a 3D model

Available in the following coats:

Pladur<sup>®</sup> Wrinkle mat \* /Pladur<sup>®</sup> RAL Premium



SUPERIOR HB

**GERMAN 30/40** 





Poliester Standard (RAL/MAT)

29/40

50

Pladur<sup>®</sup> Wrinkle Mat Plus

# **GERMAN SIMETRIC**

GERMAN SIMETRIC is a symmetric, modular roofing sheet, that our Customers will like for its modern and attractive look, and by roofers - for the ease of assembly. A great advantage of GERMAN SIMETRIC is a high-quality raw material - in its production. Blachotrapez uses steel coming from German steelworks of thyssenkrupp Steel Europe, a world leader in this sector. Made of the best raw material, the GERMAN SIMETRIC roofing sheet has increased resistance to abrasion and soiling, as well as the highest anti-corrosion resistance on the Polish market.

## **PRECISION TAILORED** TO YOUR ROOF

1144

Precision, solidity and classic beauty. When it comes to a few words about the new GERMAN SIMETRIC roofing sheet, such is the summary of its character. Now, even complicated roofing constructions will be a reliable protection for you and your family for long years to come.







## NEW DIMENSION OF ROOFING WITH TALIA 30 i 35 mm

TALIA 30 is a roofing sheet well known for its slender form. Now, it is available also in a new version, with a higher crease - 35 mm. The new TALIA 35 still means a beautiful shape, now with a reinforcement of the original crease, which offers new possibilities for shaping large and small roof surfaces. Unconventional finish of the lower edge of the sheet cut along the shape of the profile, called a 3D finish, enhances additionally the aesthetics of the design. We recommend combining TALIA with the SUPERIOR HB premium class coating with a polish guaranteeing an exquisite visual effect created by the coating.

# DISCOVER A WHOLE PACKAGE OF ADVANTAGES FOR YOUR ROOF

In order to achieve an extraordinary strength that will last for years, we recommend TALIA with the Pladur<sup>®</sup>Wrinkle Mat Plus coating. The coating is 50 µm thick and has a high content of zinc and magnesium. Its high quality parameters are certified and backed by a written 50-year guarantee of the manufacturer. Additionally, both Talia models may be purchased with all coatings offered by BLACHOTRAPEZ.







Overall width Effective coverage width Thickness of the finished product (steel) Recommended length Tile rib height Module length Profile height

~1150 mm 1045 mm 0.5 mm max 5750 mm 20 mm 350 mm 34 mm



scan the QR code to view a 3D model



### TECHNICAL PARAMETERS

Overall width Effective coverage width Thickness of the finished product (steel) Recommended length Tile rib height Module length Profile height

1120 mm 0,5 mm max 5750 mm 14 mm 350/400 mm 22 mm

~1200 mm



scan the QR code to view a 3D model

### Available in the following coats:



Pladur<sup>®</sup> Wrinkle mat /Pladur<sup>®</sup> RAL Premium

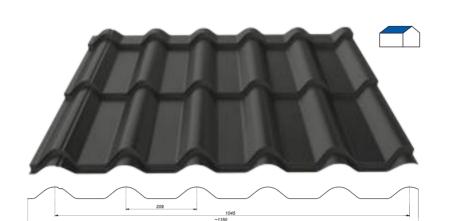
Pladur<sup>®</sup> ₩







Pladur<sup>®</sup> Wrinkle Mat Plus





# DIAMENT PLUS and DIAMENT ECO PLUS

The traditional pattern of Diamond Plus roof tiles contributes to the covered roof's characteristic look, which is bound to attract attention. This model was designed to perfectly adhere and minimize the amount of waste sheets.



Relief IceCrvstal







Overall width Effective coverage width Thickness of the finished product (steel) Recommended length Tile rib height Module length Profile height ~1195 mm 1100 mm 0.5 mm max 5750 mm 14/20 mm350/400 mm 23 mm



scan the OR code to view a 3D model



### **TECHNICAL PARAMETERS**

Overall width Effective coverage width Thickness of the finished product (steel) Recommended length Tile rib height Module length Profile height

~1195 mm 1120 mm 0.5 mm max 5750 mm 14 mm 350 mm 22 mm



scan the OR code to view a 3D model

#### Available in the following coats:



Pladur<sup>®</sup> Wrinkle mat /Pladur<sup>®</sup> RAL Premium \* Pladur<sup>®</sup> Relief IceCrvstal

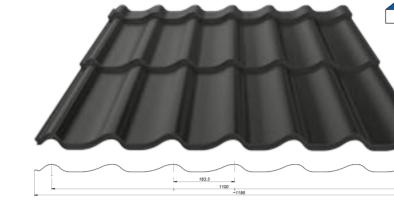




Poliester Standard (RAL/MAT)



Wrinkle Mat Plus







# KINGAS and KINGAS ECO PLUS

Roofing sheet KINGAS and KINGAS ECO PLUS is an elegant, light roof covering, standing out due to its attractive design resembling delicate waves. It is suitable for all kinds houses and apartment, religious, utility and public utility buildings.







Overall width ~1222 mm Effective coverage width Thickness of the finished product (steel) 0,5 mm Tile rib height 35 mm Module length 380 mm Profile height 6 mm



scan the QR code to view a 3D model



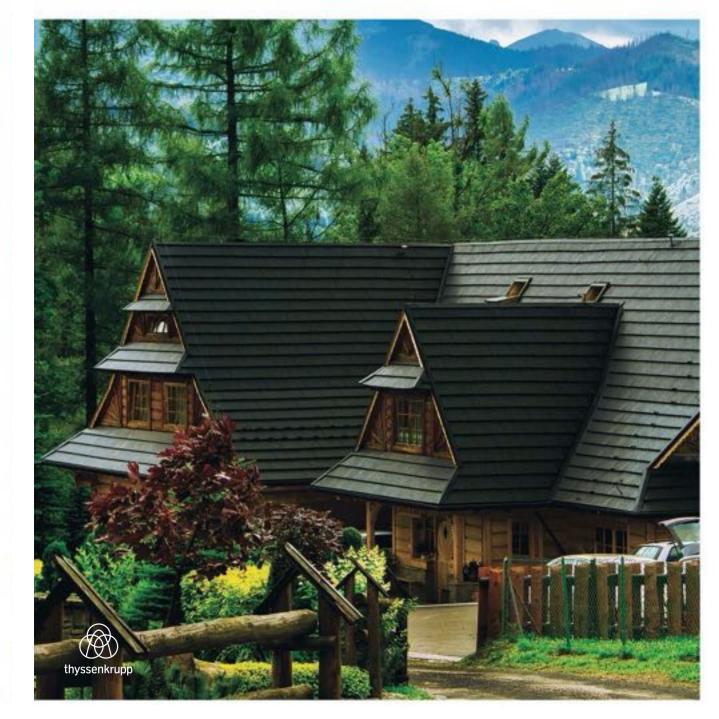
# THE JANOSIK METAL SHINGLE

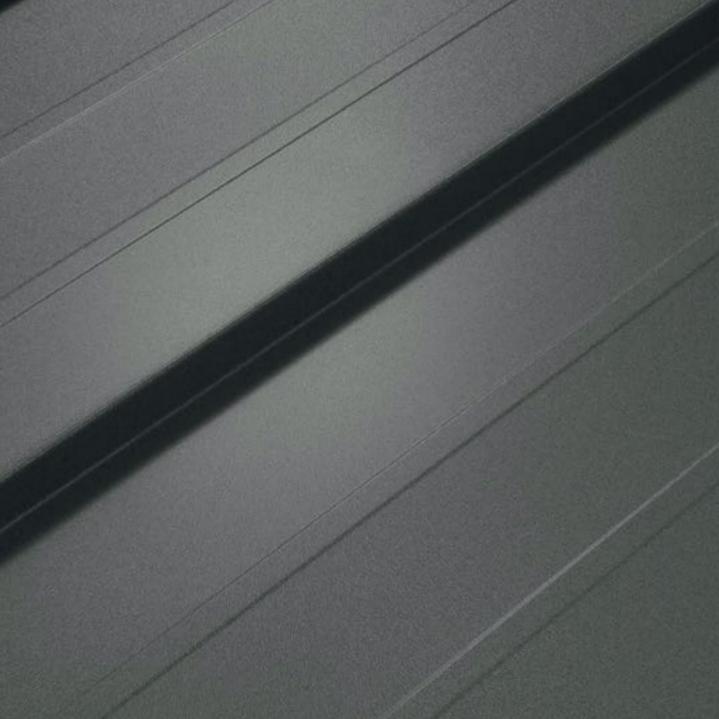
The JANOSIK metal shingle is an innovative product with unique design. Its form, texture and appearance thoroughly resemble the wooden shingle. This effect was achieved thanks to innovative technological solutions of the machinery park and the development of basic material PLADUR Relief Textured Wood.

The PLADUR Relief Textured Wood coat, designed in resemblance of wood, imitates perfectly its texture and provides a unique visual effect on the roof. High-quality German steel, used for the production of JANOSIK, is from a renowned steel mill thyssenkrupp Steel Europe, a leader of the global market. Thanks to the securing of the steel core with a mix of zinc and magnesium, metal sheet has a greater durability, and its lifespan has been prolonged.

# TRADITIONAL WOODEN LOOK IN STEEL FORM

The product's incredible appearance has been achieved by adding texture and paint coats. An exceptional durability of paint coats is provided by at least  $36 \mu$ m. The JANOSIK metal shingle is highly resistant to corrosion, abrasion, staining and UV radiation. Contrary to wooden shingle, this material does not require frequent and costly maintenance and impregnation, and thus is more functional. Thanks to a low profile, coverage width is higher and it improves the product cost effectiveness. The JANOSIK metal shingle is easy and simple to install thanks to the possibility of laying the material on both sides in a brick pattern.







# ROOF Panels

# CLASSIC LOOK MODERN FORM

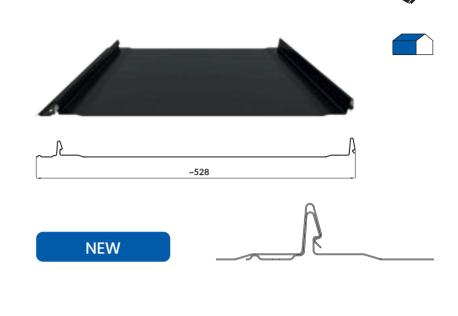
Standing seal roof panel is a solution which refers to the traditional "seam or welt" installation system. The need for innovation made Blachotrapez design a product featuring numerous improvements - the Retro standing seam roof panel. It combines the functionality, simple and quick installation with the exceptional look of the product, which meets the top design standards. The combination of these features in one product provides for great possibility of shaping the roof surface.

### 24 | Roof panel





Overall width ~528 mm Effective coverage width 488 mm Thickness of the finished product (steel) 0,5 mm Seam height 32 mm "Clik" height 27 mm Sheet length max 8000 mm



### Available in the following coats:



Pladur<sup>®</sup> Relief Textured Wood





#### ADDITIONAL OPTION:

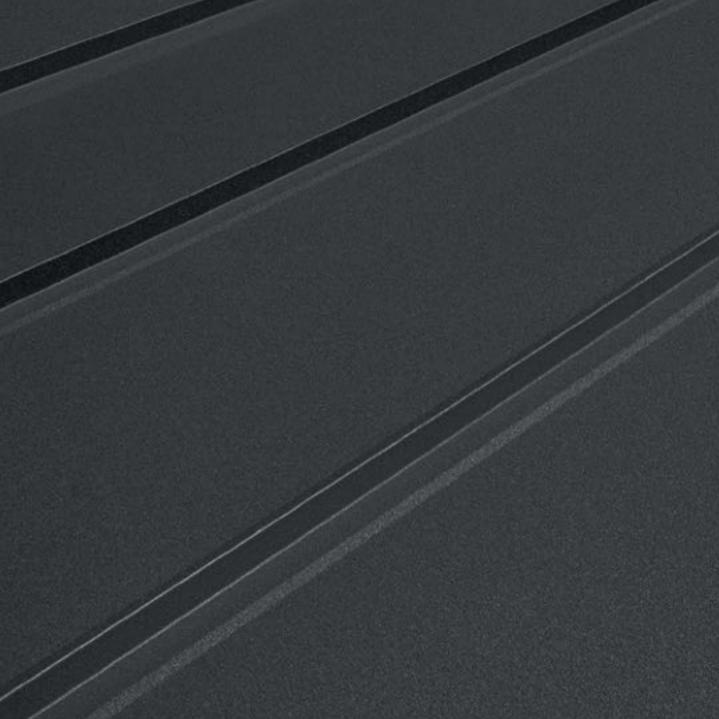
- Cutting cutting option for folding
- Cutting with folding folding option for start piece

# PANEL HIGH TECH

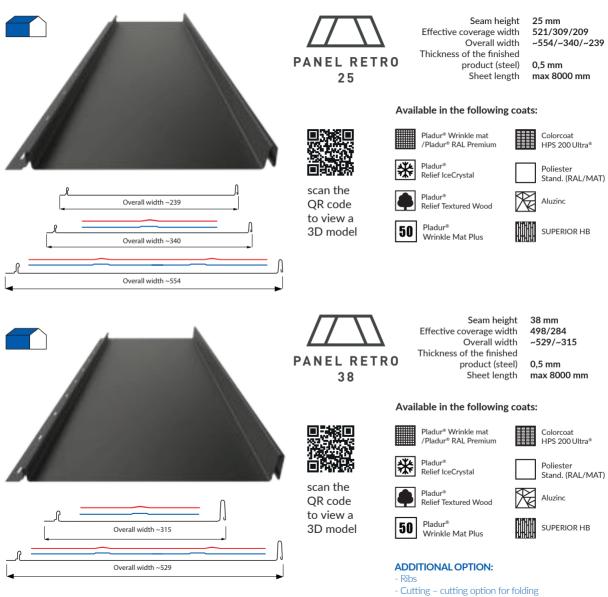
Technological innovation in each area allows to fulfil the desires and needs. The best evidence of this is the HIGH-TECH Panel. It is the result of modern cooperation of roofers, market leaders and Blachotrapez specialists. It redefines the shape of a standing seam roof panel. This is the most advanced technology available on the market - it meets the expectations of roofers, architects and investors implementing bold future projects.

# IMPROVED DESIGN FUNCTIONALITY

A special profile external snap lock with optimized height for easy installation. Its design reduces sheet tension. This is the latest snap lock clamping technology available on the market. In addition, a special rise at snap locks provides even contact of the flat panel surface to the substrate and reduces waving.







- Cutting with folding - folding option for start piece







# **TROUGHED ROOF** Sheet

# TRADITIONAL ROOF AND FACADE COVERAGE

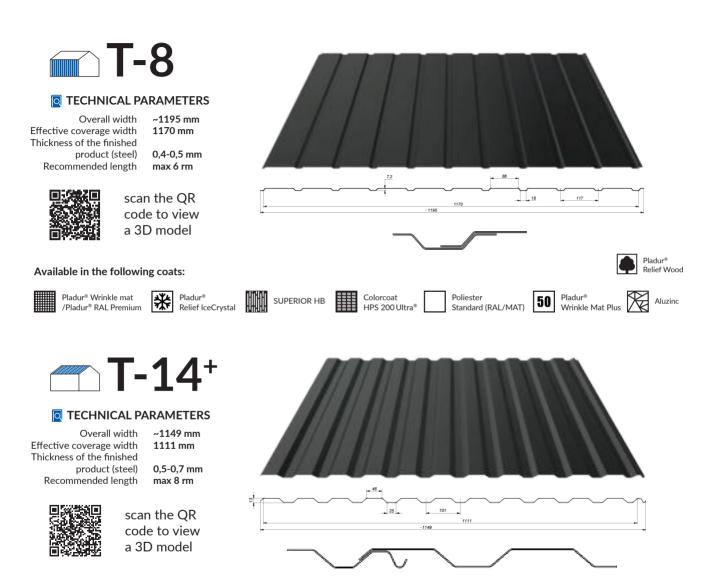
Troughed roof sheets are exceptional due to their distinctive shape and simplicity. It is a universal and economic material for fast coverage of both roofs and facades. It allows for erecting impressive structures which break the traditional division between roof and facade. Troughed roof sheets are eagerly selected by constructors as material for roof of industrial and public buildings. The owners of single-family houses also more often decide to use the troughed roof sheet, as such roof sheet perfectly presents on the building with modern, minimalistic architecture and environmentally friendly style.

Troughed roof sheets are above all practical. Thanks to a wide range of sheet thickness in, tailored cutting service and abundant colour selection, its applications are unlimited. As an important feature, its rigidity and durability is determined by the profile height.

For small and medium-size buildings, the following troughed sheet profiles will be the best: T8, T14 plus, T18, T18 plus, T20 plus, T35, T35 plus, T50, T55. T50 and T55 sheet metal plates are used in large commercial buildings, such as production halls.

### 30 | Trapezoids





Available in the following coats:









Colorcoat HPS 200 Ultra®

Poliester Standard (RAL/MAT)





Pladur<sup>®</sup> Wrinkle Mat Plus

Aluzinc

50





### **TECHNICAL PARAMETERS**

Overall width Effective coverage width Thickness of the finished product (steel) Recommended length

1123 mm 0.5-0.75 mm max 10 rm

~1160mm



scan the QR code to view a 3D model

### Available in the following coats:



Pladur<sup>®</sup> Wrinkle mat /Pladur<sup>®</sup> RAL Premium





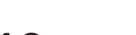


140 4

1160

Poliester

Standard (RAL/MAT)





### **TECHNICAL PARAMETERS**

Overall width Effective coverage width Thickness of the finished product (steel) Recommended length

~1160 mm 1123 mm

0,5-0,75 mm max 10 rm



scan the QR code to view a 3D model

### Available in the following coats:



Pladur<sup>®</sup> Wrinkle mat /Pladur® RAL Premium







Poliester

1160

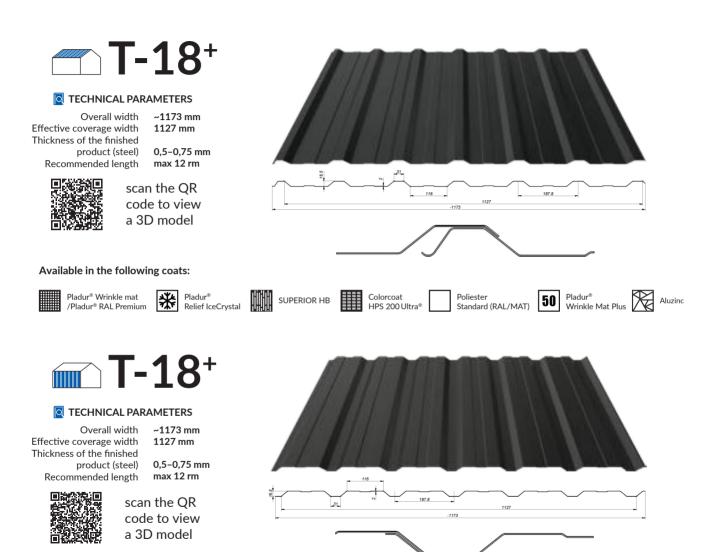
140.4





### 32 | Trapezoids





Available in the following coats:







Colorcoat HPS 200 Ultra®

Poliester Standard (RAL/MAT)









Overall width Effective coverage width Thickness of the finished product (steel) Recommended length

~1120 mm 1070 mm

0,5-0,75 mm max 12 rm



scan the QR code to view a 3D model

### Available in the following coats:



Pladur<sup>®</sup> Wrinkle mat /Pladur® RAL Premium





Colorcoat HPS 200 Ultra® 

133.75

-1120

1070











Overall width Effective coverage width Thickness of the finished product (steel) Recommended length

1065 mm 0,5-1 mm max 12 rm

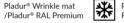
~1100 mm



scan the QR code to view a 3D model

### Available in the following coats:













### **TECHNICAL PARAMETERS**

Overall width Effective coverage width Thickness of the finished product (steel) Recommended length

~1100 mm 1065 mm 0.5-1 mm max 12 rm

scan the QR code to view a 3D model

### Available in the following coats:











\_36\_

Colorcoat

HPS 200 Ultra®

Poliester Standard (RAL/MAT)

-1100

213

Poliester

-1100

1065

Standard (RAL/MAT)



Pladur<sup>®</sup>

Wrinkle Mat Plus

50



Aluzinc

### 36 | Trapezoids





### **TECHNICAL PARAMETERS**

Overall width	
Effective coverage width	
Thickness of the finished	
product (steel)	(
Recommended length	I

~1098 mm 1047 mm 0,5-1,0 mm max 12 rm



scan the QR code to view a 3D model

### Available in the following coats:



119

1098

261.75

34



### **TECHNICAL PARAMETERS**

Overall width	
Effective coverage width	
Thickness of the finished	
product (steel)	
Recommended length	





scan the QR code to view a 3D model

### Available in the following coats:



Pladur® Wrinkle mat /Pladur® RAL Premium







Poliester Standard (RAL/MAT)

261.75









#### **TECHNICAL PARAMETERS**

Overall width Effective coverage width Thickness of the finished product (steel) Recommended length

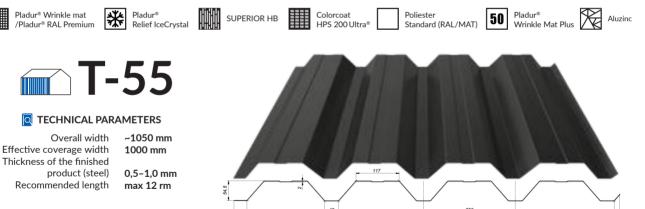
1000 mm 0,5-1,0 mm max 12 rm

~1050 mm



scan the QR code to view a 3D model

#### Available in the following coats:



40



scan the QR code to view a 3D model

#### Available in the following coats:



Pladur<sup>®</sup> Wrinkle mat /Pladur<sup>®</sup> RAL Premium







Poliester Standard (RAL/MAT)

1000

-1050

-1050







# STEEL Rails

#### STEEL RAILS PREMIUM

Eye-catching design - a unique proprietary design patent law, high-quality material, as well as modern and practical assembly solutions are just some of the distinguishing features of the steel rails premium. Fencing with Steel Rail Premium fits in perfectly with the surrounding architecture complement the home environment and emphasizing its character. Based on years of experience in the production of high-quality coated sheets BLACHOTRAPEZ created a product extremely durable and aesthetic of universal design solutions. Steel rails Premium do not burden the construction of the fence and will freely develop its line and choose the optimum height - according to individual needs, and freely adjust headroom fence. The unquestionable advantage of the system is extremely simple and quick installation which can be carried out independently. The advantage is also easy to keep rails clean - that do not require special maintenance.



#### **Steel rail**

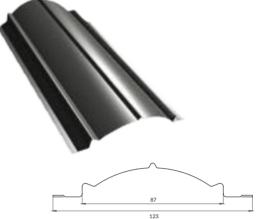
#### **TECHNICAL PARAMETERS**

Profile height Charge width Useable width Overall width Element length size Max rec. element length Min element length





scan the QR code to view a 3D model





123

The steel railings are available in two versions: one-side coated or coated on both sides

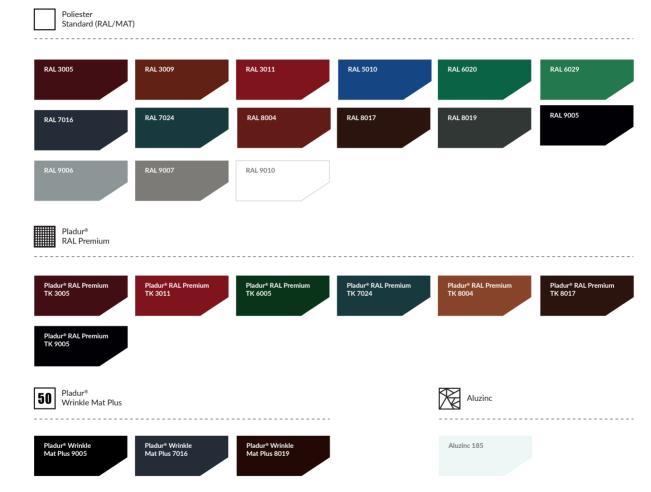
As for the version with both sides coated, the following colours are available: RAL8017, RAL 9005, RAL 7016 the wood-like GOLDEN OAK In the one-side coated version: all the raw materials available in the warehouse, with the exception of HPS, OCYNK, ZINKOMAG and ALUZINC











The printing technology does not allow for accurate reflection of coating colours, thus the presented colours are indicative and may differ from actual colours. The colours of samples are subject to production tolerance and may insignificantly differ from the material delivered to the construction site.



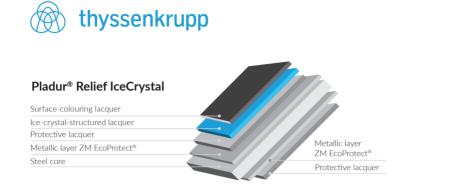




**Pladur® Wrinkle Mat Plus** - coarse-grained, 2-layer coating system, in colours according to known colour schemes, with layer thickness of min. 50 microns.



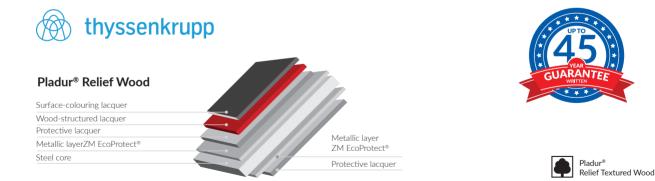
**Pladur® Wrinkle mat** - thick-grain, double-layer coating system, with colours according to well-known patterns and min. coat thickness 35 microns. The sheets meet the requirements of class A2 in accordance with the Commission Decision 96/603/EC on fire protection and may be used in the corrosion category C4 according to the standard EN ISO 12944-2.







**Pladur® Relief iceCrystal** - sheets with a proprietary surface structure imitating patterns of frozen ice, triple-layer coating system, min. coat thickness 36 microns. The sheets meet the requirements of class A2 in accordance with the Commission Decision 96/603/EC on fire protection and may be used in the corrosion category C4 according to the standard EN ISO 12944-2.



**Pladur® Relief Textured Wood** - sheets with a proprietary surface structure imitating wood, triple-layer coating system, min. coat thickness 36 microns. The sheets meet the requirements of class A2 in accordance with the Commission Decision 96/603/EC on fire protection and may be used in the corrosion category C4 according to the standard EN ISO 12944-2.

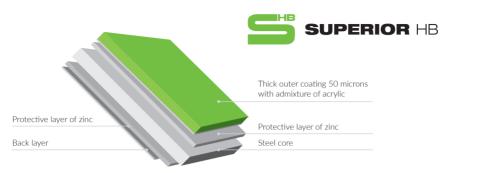




**Poliester Standard** - coated sheets are the most popular option for metal roofing. Currently, sheets that are double-side galvanised with anti-corrosive layer, priming or organic paint are used. The top layer provides the colour and texture, as well as protects against outdoor conditions.



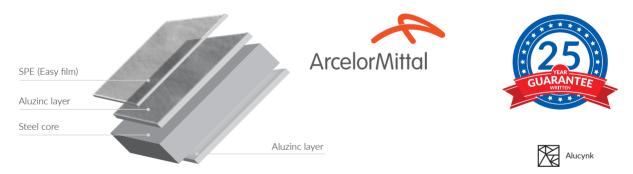
**Colorcoat HPS 200 Ultra®** - employs a tested metallic Galvalloy layer which is used exclusively by TATA Steel and is an alloy of 95% zinc with 5% aluminium, ensuring unparalleled protection against corrosion. The thickness of the organic layer in the Colorcoat HPS200 Ultra® product is 200 µm. The sheets Colorcoat HPS200 Ultra® may be used in the highest corrosion category C5 according to the standard EN ISO 12944-2. Furthermore, if the roofing is made of the sheet Colorcoat HPS200 Ultra®, the external fire performance is classified as B roof (t1), B roof (t2), B roof (t3) and the reaction to fire as C-s2, d0 according to the Commission Decision.







**SUPERIOR HB** - is a ground-breaking alternative for smooth polyester surface. Thanks to an addition of acrylic compounds, the coat texture is slightly grained and it reflects light with a flickering effect. The acrylic additive additionally hardens the paint surface and ensures higher resistance to scratching. Lacquered sheets with metallic coating SUPERIOR HB meet the requirements of class A1 in accordance with the Commission Decision 96/603/EC on fire protection. The products with SUPERIOR HB coating system may be used in the corrosion category C4 according to the standard EN ISO 12944-2



**Alucynk AZ185** into the production of roofing! Aluzinc is a sheet covered on both sides with an aluminium and zinc alloy in an electroplating process similar to hot galvanizing process. Thanks to the component proportions of Aluminium 55%, Zinc 43.4% and Silicon 1.6% our products are highly resistant to corrosion thanks to the synergy between the zinc cathodic protection and aluminium screening effect. For manufacturing processes Blachotrapez uses only Aluzinc of 185 g/m<sup>2</sup> (subject to 25 years of warranty). The sheets meet the requirements of class A1 in accordance with the Commission Decision 96/603/EC on fire protection and may be used in the corrosion category C4 according to the standard EN ISO 12944-2

## **STEEL SERVICE CENTRE (SSC)**

The Steel Service Centre (SSC) is intended for customers looking for a material with specific properties and processing level. The processing includes winding, cutting along and across and protection according to the customer's individual needs. We also accept the orders using the customers' materials, which are optimally used within our advanced production processes. The processing services offered by Blachotrapez include the processing of galvanised, Aluzinc and organic-coated steel.

## HYDROCONTROL

## hydrocontrol

The water vapour condensation consists in a change of state of water vapour on the surface of uninsulated steel roofing. Such phenomenon depends on many factors, including but not limited to: construction of roofing and its thermal insulation. The water vapour condensation may result in dampening of roof, and thus fungus growth or corrosion. In extreme cases it may result in room flooding or freezing. BLACHOTRAPEZ offers a simple and effective solution for this problem - anti-condensation coating Hydrocontrol. This is a self-adhesive membrane, which is fixed to the back side of the sheet.

#### SPS

The technological SPS process allows profiling steel material under optimum climatic conditions - independent of the ambient temperature. With its use, input materials can be perfectly plasticised, and this especially goes for paint coatings. Key benefits that SPS technology brings is primarily acquisition of such properties and parameters that increase the durability of the material supplied by our company and the quality of its execution. The applied technology makes the coating material extremely resistant to the destructive effects of external factors, corrosion and damage. Simultaneously, it does not lose its properties, ensuring effective roof protection and high aesthetic values for many years to come. With all these factors resulting from the use of SPS, we have achieved the greatest success - extension of the warranty period for Polyester Standard coating (gloss, matt) by an additional five years for separation of coatings."





MD

Trough ride tile PLUS

## TRANSPORT

The ordered material shall be delivered to the place indicated by Customer (it is possible to pick the order up with own transport). Unloading should be performed with professional equipment or, in case of its unavailability, manually by an appropriate number of people. This will enable to avoid scratches, deformations or other accidental damage according to the storage and transport instructions and terms of warranty.

## STORAGE

The stored materials should not touch the ground directly. The material should be stored in a dry and ventilated place and kept away from aggressive substances (pesticides, acids). The products secured with protective film should not be exposed to strong sunlight (remember to remove the film immediately). It is also recommended not to store the purchased materials for a period longer than 3 months according to the storage and transport instructions and terms of warranty.

## INSTALLATION

For sheet installation we recommend self-tapping screws with EPDM washers (extremely resistance to low and high temperatures). The suggested number of screws used for installation is 5-8 pcs/m<sup>2</sup>. Sheets must be cut with special vibrating shears (Nibler). Do not use any disc-cutters which may cause the lacquer damage! After completing the work remove thoroughly all remains from sheet surface according to the storage and transport instructions and terms of warranty.

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