



# Metal tile sheet

## Diamant Eco Plus



Product  
data sheet



scan the QR code  
and see a 3D model



## General information

Metal tile sheets are among the most commonly used roofing materials in residential, religious, economic, and public utility buildings. Our products are formed on the model of classic tiles, and combine tradition and modernity. They are more and more often selected as permanent covering, both in new construction and renovation.

A fully-automated manufacturing process allows cutting sheet metal to a desired length. Therefore, we can implement the most unusual orders while minimizing the amount of waste. The highest quality of covering is provided by complete systems of finishing elements, flat sheets, seals and fasteners.

## Advantages and properties

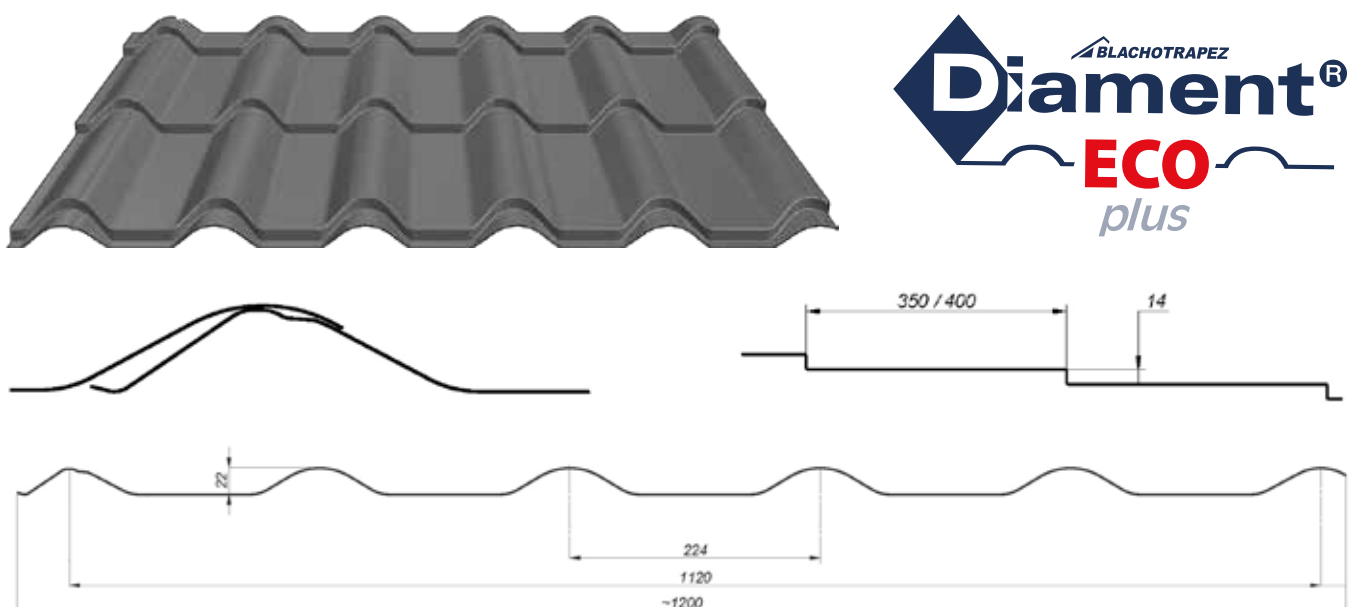
A great advantage of the tile sheet is its unique lightness. The weight of 1m<sup>2</sup> of sheet is approx. 4.5 kg, which is almost 10 times less than the weight of traditional ceramic tiles. The light covering does not excessively load and does not affect the entire structure of the building. Our metal tile sheet has a sleek look, are durable and economic.

## Technical details

Total width:	~1200 mm	Profile depth:	22 mm
Effective width:	1120 mm	Step length - Module:	350/ 400 mm
Thickness of the finished product (steel):	0,5 mm	Minimum sheet length:	850/950 mm
Thickness of the finished product (aluminium):	0,6 mm	Maximum sheet length:	5 750 mm*
Height of the tile step - offset:	14 mm	Pitch:	224 mm

\*Blachotrapez is not responsible for mechanical damage caused during transport in sheets longer than the ones recommended in the Technical Specifications of the Profile. Ordering sheets longer than recommended increases the risk of damage during transport, processing and assembly. Sheets longer than recommended may be deformed. This is due to the production technology and the expansion of the material under the influence of temperature amplitude.

## Diament Eco Plus - Dimensions, Cross section and longitudinal section.



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 **Application**


Metal tile sheets are delivered in the form of ready-made elements, and are used for roofing with a slope of not less than 14°. For Colorcoat HPS200 Ultra® the minimum roof slope is 11°. These sheets are used as finishing and safety elements in buildings. Tile sheet must be used in accordance with technical projects of buildings, and the manufacturer's installation instructions and recommendations, standards and technical and construction regulations.

Remove the anti-condensation barrier at the joints between the sheets and butting up to the eaves by cutting, so that water and moisture from the outside is not absorbed into the layer of material. This also affects the appearance of the metal sheet joints. Due to the anti-condensation barrier properties, a slight change in the length of the sheets may occur, which should be taken into account when constructing the base structure. This is independent of the Manufacturer.

Blachotrapez recommends to purchase all materials required for one investment under one purchase order. Otherwise it is possible that the colour shades and texture will vary which shall not be attributable to the Manufacturer.

The applied material has a wide range of applications due to the environmental classification, which is confirmed by a long warranty period depending on material (see the separate warranty form uploaded to our website [www.blachotrapez.eu](http://www.blachotrapez.eu))

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 **Research results / documentation**

All of our products have a Declaration of Performance made on the basis of Standards and Regulations related to construction products in force.

We also have Hygienic Certificate No. B-BK-60211-1315/19 issued in 2020 by the National Institute of Hygiene (PZH).

These documents are issued to implemented orders. In order to obtain them, please contact the Quality Control Department - the scheme of procedures is provided on our website.

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 **SPS**

We inform that to meet customers' needs, Blachotrapez has introduced a global-scale unique technology known as SPS - Safe Profiling System. The implementation of an innovative profiling system of metal sheet was made possible through many years of observations, analyses and research conducted by our experts in cooperation with suppliers of steel, and new technologies. It is worth noting that the SPS system is patent protected as an innovative solution on the market.

The technological SPS process allows profiling steel material under optimum climatic conditions - independent of the ambient temperature. With its use, raw 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.

The innovative SPS technology was first used in a production process at Blachotrapez already in 2014, when we extended the warranty period for our key vendor - ThyssenKrupp Steel Europe.

We can fully recommend the SPS system as a technology that allows achieving the highest durability of sheet metal and increasing resistance to corrosion and damage. The roof will have its functions for a longer time, ensuring comfort to its residents.

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 **Additional information**

For all types of profiles we have properly prepared instructions for transport, storage, cutting and maintenance of sheet metal. To familiarize yourself with the content, please visit [www.blachotrapez.eu](http://www.blachotrapez.eu) and contact our Technical and Trade Consultants or branches of our company - addresses can also be found on our website.

We also have numerous awards and certificates for both our raw materials and ready-made products, which you can read on our website [www.blachotrapez.eu](http://www.blachotrapez.eu)