



Panel HIGH-TECH



Product
data sheet



General information

The roof and façade made of standing seam sheet metal is one of the strongest trends in architecture. The HIGH-TECH panel is a modern ornament, a sophisticated fitting, which closes the whole project and emphasises its sophisticated nature.

Advantages and characteristics

An external snap lock with a special profile and optimised height facilitates installation. Flat panels in contrasting combinations with wood, clinker, stone, glass or gabions determine the direction of aesthetics of contemporary architecture. The HIGH-TECH panel combines minimalism, elegance, an original shape and versatility. In addition, the use of nanowave technology means that the HIGH-TECH Panel reflects glare, and the "wavy" effect caused by tension and slight unevenness in the substrate is less visible.

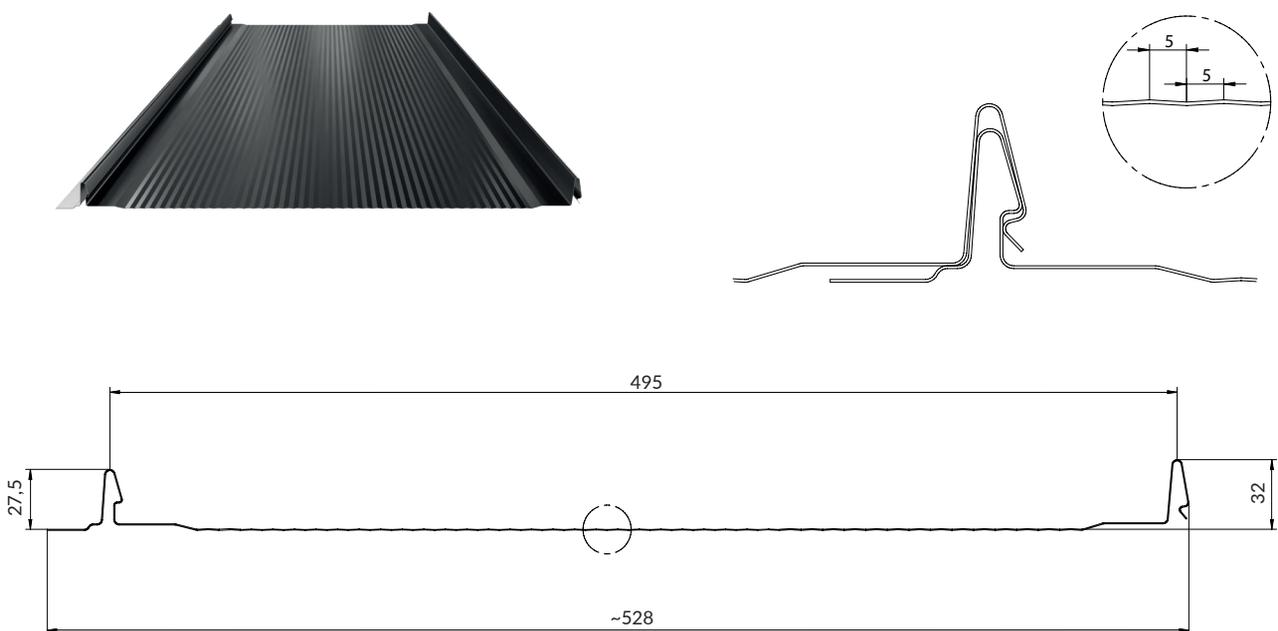
The HIGH-TECH panel is produced in various options depending on the Customer's needs, e.g. with the option of notching for the bend, notches with a bend. Everything depends on the individual needs, requirements and preferences of the Customer.

Technical details

Total width:	~528 mm	Recommended length:	max 8 mb *
Cover width:	495 mm	Height of the welt:	32 mm
Thickness of the finished product (steel):	0,5 mm	"Klik" height:	27,5 mm
Minimum sheet length:	1400 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.

Panel HIGH-TECH - dimensions and welt, Cross-section



 **Application**

Roofing panels are delivered in the form of ready-made elements, and are used for wall and roof covering with a slope of not less than 9°. These sheets are used as finishing and safety elements in buildings. Roofing panels must be used in accordance with technical projects of buildings, the manufacturer's installation instructions and recommendations, current standards, and technical and construction regulations.

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.

If joining sheets of panels along their length, please specify when ordering.

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)

 **Research results / documentation**

The HIGH-TECH has a Declaration of Performance drawn up in accordance with the applicable standards and regulations for construction products.

We also have a Hygienic Certificate issued by the National Hygiene Institute 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.

 **Installation**

The fact that the panels are provided with a snap lock enables quick and reliable connection while maintaining high tightness, which gives them an advantage over double seam sheet metal. However, the arrangement of assembly holes along the seam ensures that the fixing screws are covered by the adjacent panel. The result is aesthetically pleasing roofing without visible fixings.

The High-Tech panel is characterised by greater stability thanks to a specially designed snap lock system. First of all, it reduces the likelihood of stress during installation when using screws. The specially profiled shape of the assembly holes guarantees a proper alignment of connection between the sheet metal and the screws, so that the roof can move freely during changing weather conditions.

When fitting and using the panels, you can experience the occurrence of the flat surfaces of sheets' waving about, regardless of their type. Such a sheet takes the shape of the roof base. Waving of such panels is a natural and frequent phenomenon. It is related to the technology of production and installation of the sheet metal, its thermal expansion and the phenomenon of light reflection. In order to minimise the effect of waving, the panels should be installed on a very carefully prepared and levelled surface, in accordance with the rules of roofing and installation instructions. A nice effect is also achieved by using a matte coating (less light reflection). In addition the option of a trim with bending or a trim for bending can be used. These options allow the bottom edge of the sheet to be stiffened and transverse corrugation to be avoided. It is also a natural phenomenon that the panel is noisy in windy conditions. To reduce this effect, a hairy membrane, soundproofing tape, structural mat, self-adhesive anti-condensation membrane or other materials can be used.

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.

 **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 and contact our Technical and Trade Consultants or branches of our company - addresses can also be found on our website.

We also hold numerous awards and certificates, which can be viewed on our website www.blachotrapez.eu