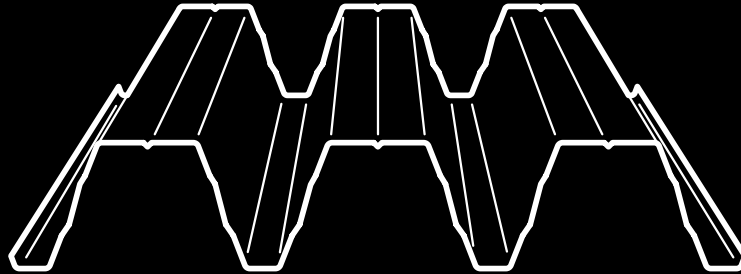


# PROFILED METAL SHEETS

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CATALOGUE 2015/16



**PANKOMERC**  
Sheet metal wizards®

# First 25 years

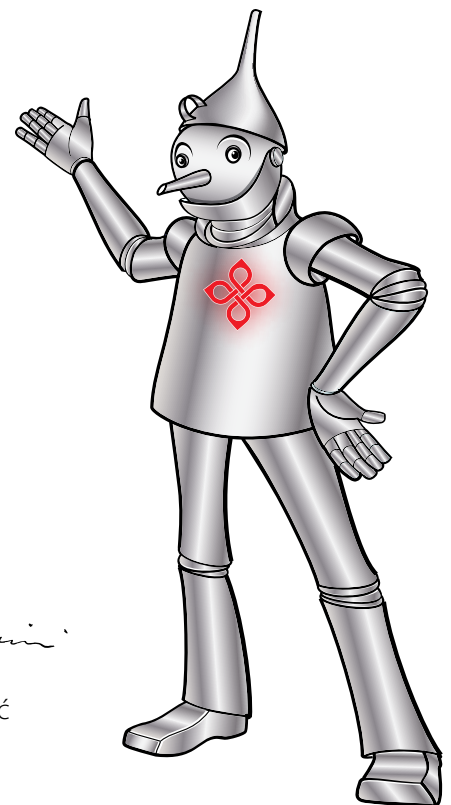
- 1990** On 27<sup>th</sup> February 1990 Milica and Božidar Panović established Pan Komerc Ltd which dealt with trade in aluminum, copper and zinc plates.
- 1991** Construction of the first hall of 300 m<sup>2</sup>
- 1993** The first machine for profiling of metal sheet was purchased and processing of nonferrous metals started
- 1994** Construction of the second hall of 390 m<sup>2</sup>
- 2001** Construction of the third hall of 900 m<sup>2</sup>
- 2002** Acquisition of advanced machinery for nonferrous metals profiling started
- 2004** Pan Komerc implemented **ISO 9001:2008 quality management system**
- 2005** Construction of the fourth hall of 500 m<sup>2</sup>
- 2008** Second generation of the Panović family is included in the company management
- 2010** Belgrade branch office is opened
- 2011** Pan Komerc becomes first Serbian company that acquired **CE mark for profiled metal sheets for roofing and facades**
- 2012** Construction of the fifth hall of 1680 m<sup>2</sup>
- 2013** Pan Komerc **ISO 14001:2004 system environmental protection management**
- 2014** Pan Komerc first appearance at international trade fairs in Hanover and Paris
- 2015** Pan Komerc celebrate 25<sup>th</sup> anniversary

Pan Commerce currently owns 4,000 m<sup>2</sup> of indoor space and 2 hectares of open space. It employs 24 workers and distributes its products on markets of Germany, Switzerland, France, Sweden, Austria, Slovenia, Moldova, Croatia, Bosnia, Macedonia, Montenegro and Serbia. Production volume reached 500,000 m<sup>2</sup> of roof and facade plates with a total annual consumption of 5,000 tons of steel and aluminum sheets. Total turnover of Pan Komerc in 2012 reached 6,000,000 euros.

In past 25 years we have searched a lot. We searched like all those who want to learn, grow and succeed in their intentions. Of course, most of the answers were within ourselves. But what have we found? We believe the very essence of a successful business: strong family foundations, quality of products and services as well as partnership with our customers.

Respecting the past years, we are excited about the fact that we made major steps towards the future and that we can rightfully call ourselves the family enterprise. The second generation of Panović family has the same but improved goal - to last. This contains all principles of our business that 1,500 of our customers throughout Serbia and Europe get to know every day.

We can say that our current path was like a fairy tale. But fairy tales are for the others. We give life to our products by giving them a soul...



A handwritten signature in black ink, appearing to read 'Božidar Panović'.

Božidar Panović

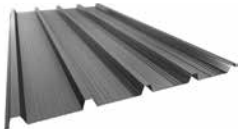
A handwritten signature in black ink, appearing to read 'Nikola Panović'.

Nikola Panović



Kindergarten "Tesla", New Belgrade

# Our product range



## Pan trapezoidal profiled sheets

Pan trapezoid profiled sheets are construction elements produced by rollforming of sheet metal. They form modern roof and facade constructions. Trapezoid profiled sheets are our main product and can be made from steel and aluminum sheets.

**5**



## Pan sinusoidal profiled sheets

Pan sinusoidal sheets from steel and aluminum are elegant and visually successful solution for modern facades cladding. The use of sinusoidal sheets on the facades allows great creativity as well as form and color play.

**16**



## Pan corrugated arched profiled sheets

Pan corrugated arched profiled sheets follow curved lines of construction elements and provide appropriate technical solution of those roofs. These profiled sheets can be produced in trapezoid and sinus variants and can be made from steel or aluminum.

**20**



## Pan metal sheets in the form of tiles

Pan sheets in the form of tiles combine the traditional look of clay tiles with all the advantages of modern materials. They can be made of aluminum and steel sheets of different length.

**22**



## Pan cassette system

Pan cassette system follows the world trends in the design and construction of facades and highlights the lines of the object. Modern technical solution is reflected in the hidden fixing and wide range of available materials. The cassette elements can be made from aluminum, steel or titanium zinc.

**28**



## Pan rain gutter system

Pan rain gutter system are an ideal addition to any roof covered with our products. They are produced on rollforming lines, 4, 5 and 6 meters long and with the diameter of 100 mm. In order to protect the surface during manipulation and installation our gutters are covered with UV stable PVC film. In addition to rain gutters we can offer a complete range of gutter accessories.

**37**

# Profiled metal sheets

In the focus of our production is a wide selection of profiled metal sheets. Trapezoidal and sinusoidal profiled sheets, metal sheets in the form of tiles, self-fitting roofing sheets and corrugated arch make us distinctive and unique in the market.

Basic features of Pan profiled metal sheets are resistance on biggest hail impact and ice pressure during severe winters, resistance to earthquakes, because they are up to seven times lighter than conventional ceramic and concrete tiles. Compact plates and mounting system allows great resistance to strong wind blasts and steel foundation and non-flammable protective layers does not support the spread of fire on the roof.

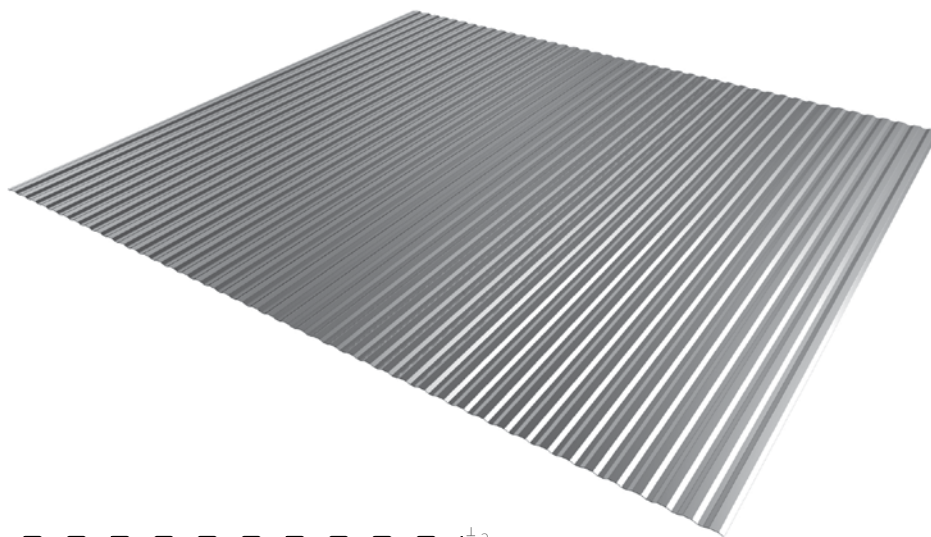
Our products meets high **ISO 9001:2008** and **ISO 14001:2004** standards and European sheet metal EN14782 standard criteria which makes us first owner of **CE mark** for sheet metal products in Serbia.



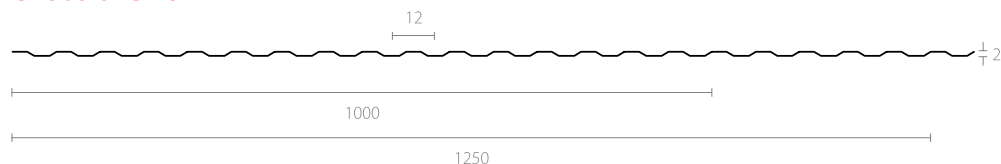
# Pan-T2

Pan-T2 is mildly profiled sheet metal which contributes to the great aesthetical value of areas covered with flat sheet metal. It is widely used for covering of facades and interior elements.

This product can be made of aluminum and galvanized steel sheet metal.



## CROSS-SECTION



## Pan-T2

Profile length	0.5 - 3 m
Profile range	up to 0.3 m
Steel thickness	0.5 - 0.7 mm
Aluminium thickness	0.6 - 1.0 mm

## Weight table

Thickness	Weight kg/m <sup>2</sup>	
0.5	4.00	x
0.6	4.80	1.65
0.7	5.60	1.90
0.8	x	2.20
1.0	x	2.70

Galvanized Aluminium



HORIZONTAL INSTALLATION EXAMPLE



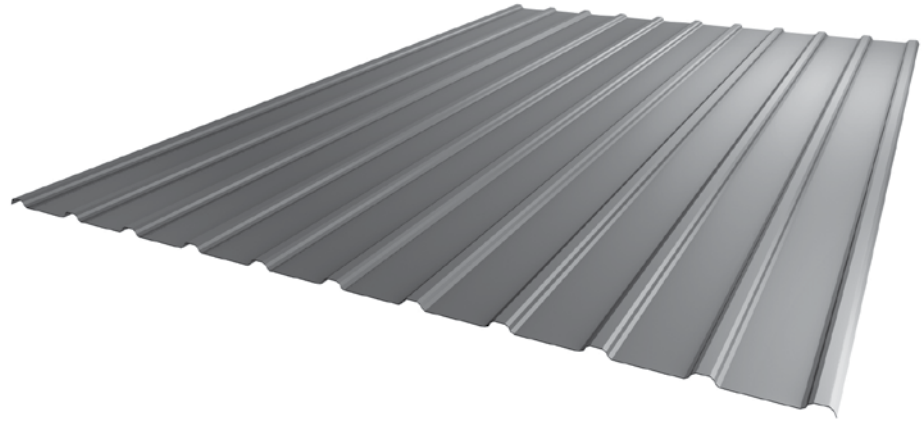
VERTICAL INSTALLATION EXAMPLE



# Pan-T10

**Pan-T10** is mainly made for facade covering. This profile with 10 millimeter ribs could be appropriate solution for ceiling covering but also for small roofs and eaves.

This product can be made of aluminum and galvanized steel sheet metal.



Antikondenz felt can be placed



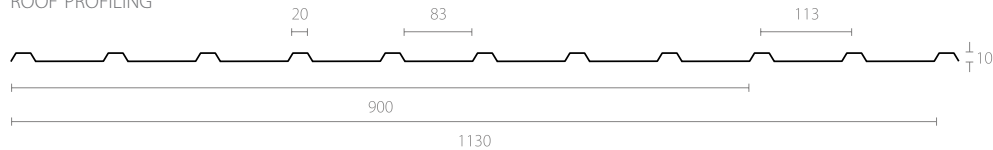
The product can be perforated



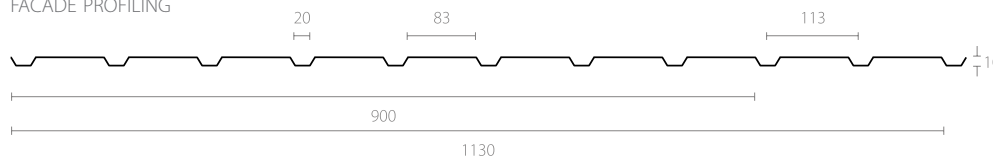
The product can be made of transparent polycarbonate

## CROSS-SECTION

ROOF PROFILING



FACADE PROFILING



## Pan-T10

Profile length	0.5 - 5 m
Profile range	up to 0.5 m
Steel thickness	0.5 - 0.7 mm
Aluminium thickness	0.6 - 0.8 mm

## Weight table

Thickness	Weight kg/m <sup>2</sup>	
0.5	4.50	x
0.6	5.30	1.79
0.7	6.17	2.10
0.8	x	2.40
1.0	x	3.00

Galvanized Aluminium







ROOF PROFILING  
INSTALLATION EXAMPLE



FACADE PROFILING  
HORIZONTAL INSTALLATION EXAMPLE

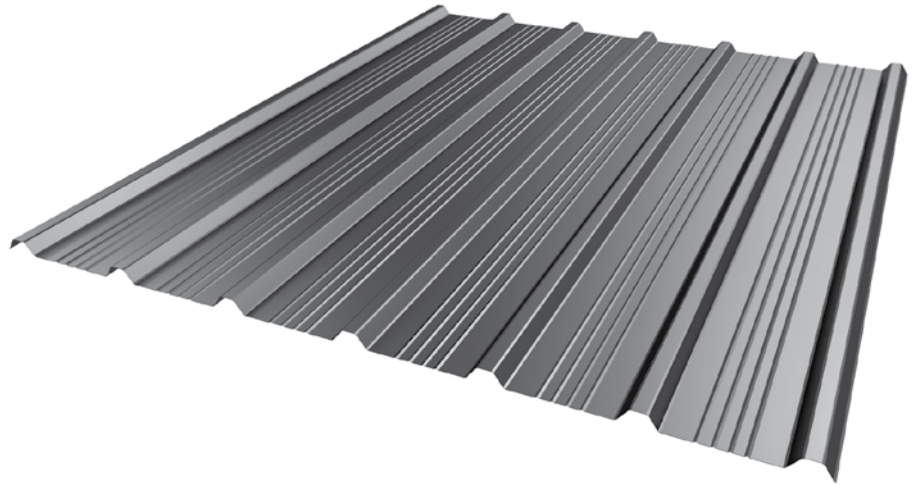


FACADE PROFILING  
VERTICAL INSTALLATION EXAMPLE

# Pan-T18

**Pan-T18** trapezoid profile has well balanced features which meet roof and wall structural demands. Thanks to that, this profile is universal solution for surface covering of all kinds. It is also used as the ceiling component of the sandwich system.

This product can be made of aluminum and galvanized steel sheet metal.



Antikondenz felt can be placed



The product can be curved



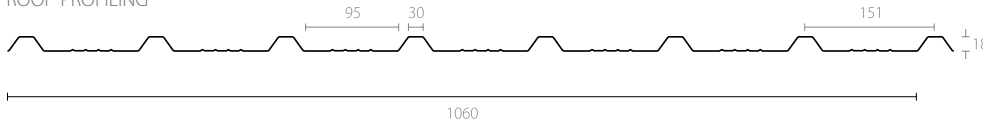
The product can be perforated



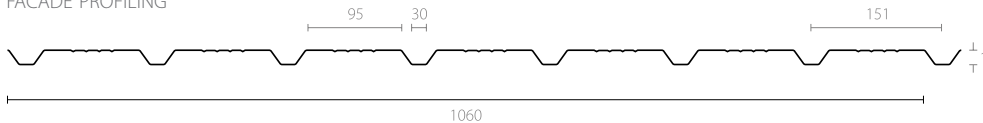
The product can be made of transparent polycarbonate

## CROSS-SECTION

### ROOF PROFILING



### FACADE PROFILING



## Pan-T18

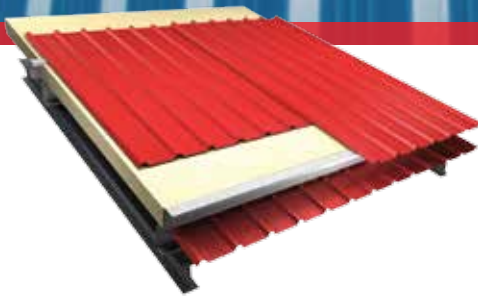
Profile length	0.2 - 9 m
Profile range	up to 2 m
Steel thickness	0.5 - 0.8 mm
Aluminium thickness	0.6 - 1.0 mm

## Weight table

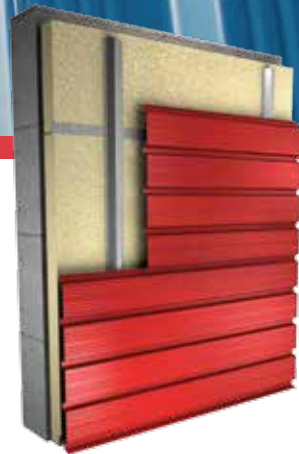
Thickness	Weight kg/m <sup>2</sup>	
0.5	4.70	x
0.6	5.66	1.91
0.7	6.60	2.23
0.8	7.55	2.55
1.0	x	3.18

Galvanized Aluminium

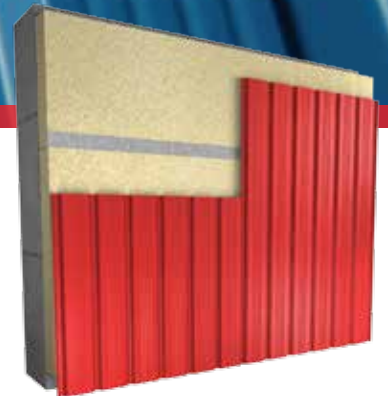




ROOF PROFILING  
INSTALLATION EXAMPLE



FACADE PROFILING  
HORIZONTAL INSTALLATION EXAMPLE

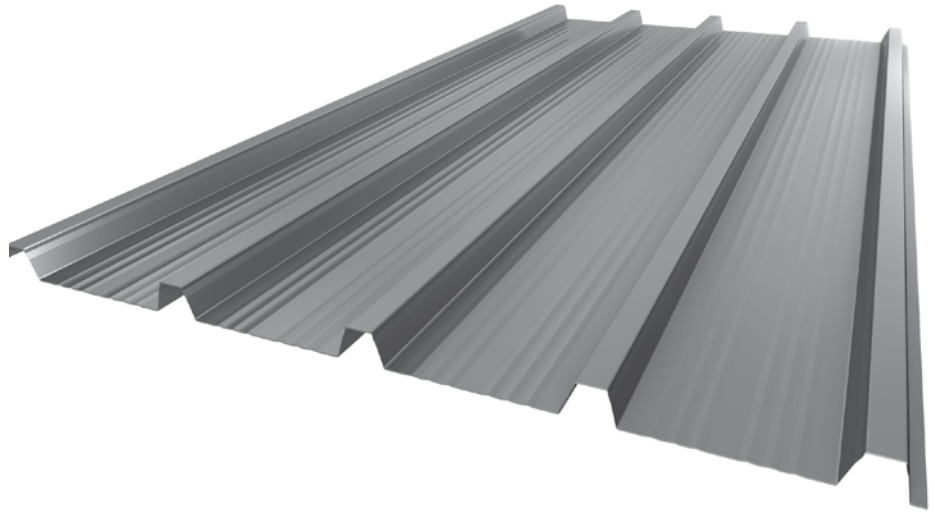


FACADE PROFILING  
VERTICAL INSTALLATION EXAMPLE

# Pan-T40

**Pan-T40** profiled metal sheet with its 40 mm profile high is our best selling roofing product. The main reasons for that is perfect balance of load bearing, profile weight and price which give this profile a wide range of use. It can also be used for wall covering.

This product can be made of aluminum and galvanized steel sheet metal.



Antikondenz felt can be placed



The product can be curved

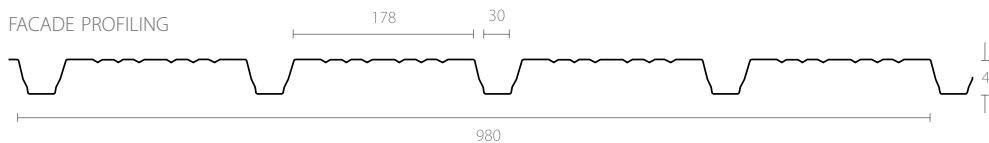
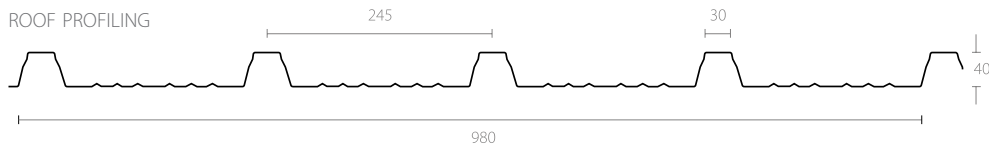


The product can be perforated



The product can be made of transparent polycarbonate

## CROSS-SECTION



## Pan-T40

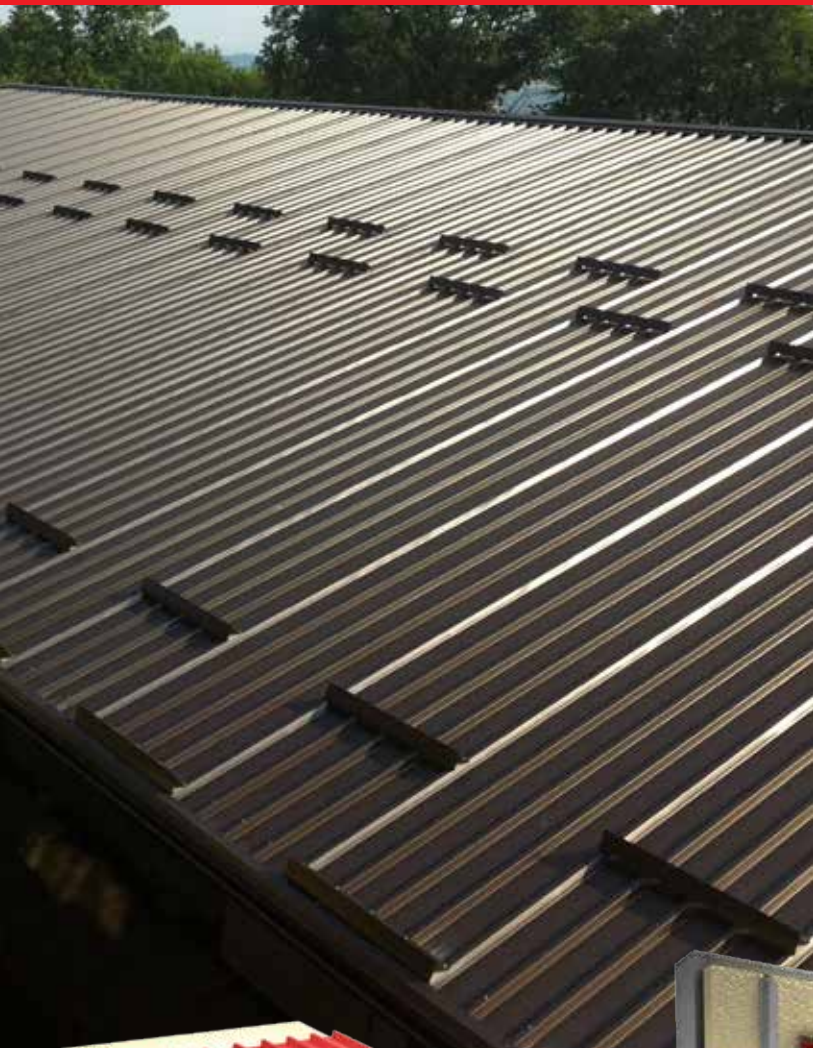
Profile length	0.2 - 17 m
Profile range	up to 3 m
Steel thickness	0.5 - 0.8 mm
Aluminium thickness	0.6 - 1.0 mm

## Weight table

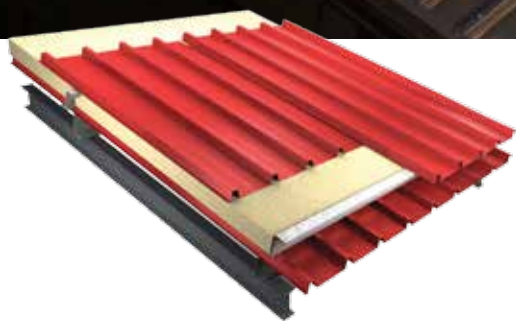
Thickness	Weight kg/m <sup>2</sup>	
0.5	5.10	x
0.6	6.12	2.10
0.7	7.14	2.41
0.8	8.16	2.75
1.0	x	3.44

Galvanized Aluminium





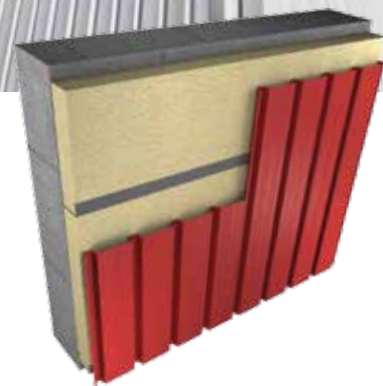
Atomaska banja, Gornja trepča



ROOF PROFILING  
INSTALLATION EXAMPLE



FACADE PROFILING  
HORIZONTAL INSTALLATION EXAMPLE



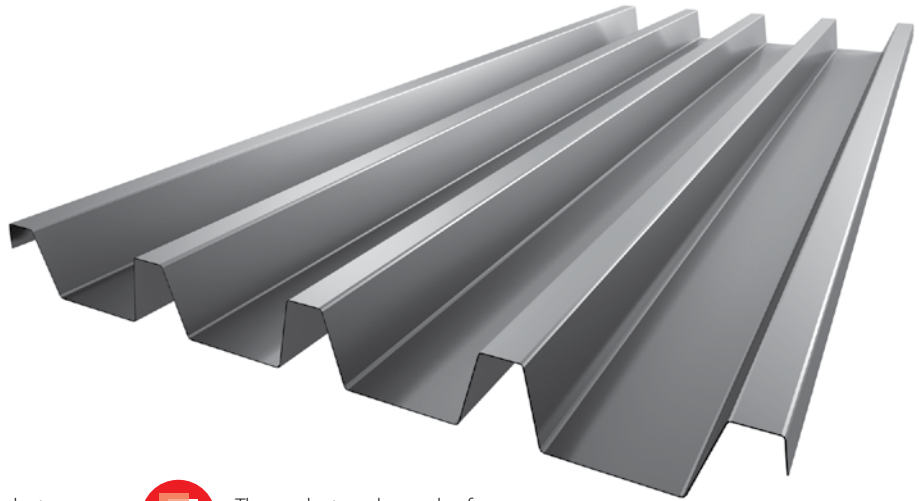
FACADE PROFILING  
VERTICAL INSTALLATION EXAMPLE

# Pan-T60

**Pan-T60** is 60 mm high profile and has rigidity for overcoming support distances over 4 meters.

It could be used as concrete molding profile or as Pan X sandwich system component.

This product can be made of aluminum and galvanized steel sheet metal.



Antikondenz felt can be placed

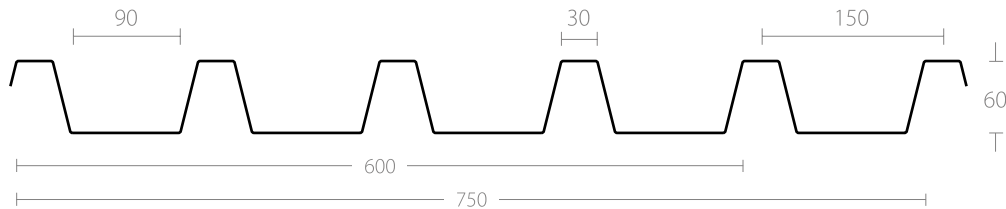


The product can be perforated



The product can be made of transparent polycarbonate

## CROSS-SECTION



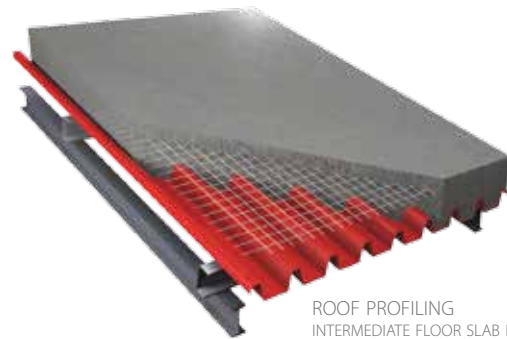
## Pan-T60

Profile length	0.5 - 17 m
Profile range	up to 4.75 m
Steel thickness	0.5 - 1.0 mm
Aluminium thickness	0.6 - 1.0 mm

## Weight table

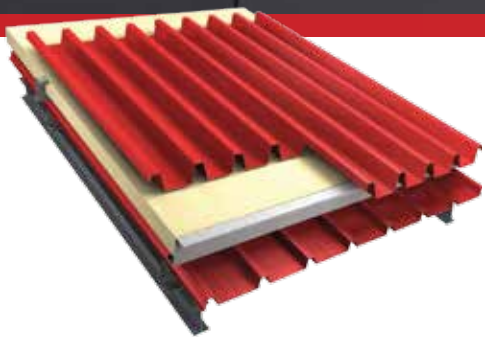
Thickness	Weight kg/m <sup>2</sup>	
0.5	6.67	x
0.6	8.00	2.70
0.7	9.33	3.15
0.8	10.66	3.60
1.0	13.33	4.50

Galvanized Aluminium

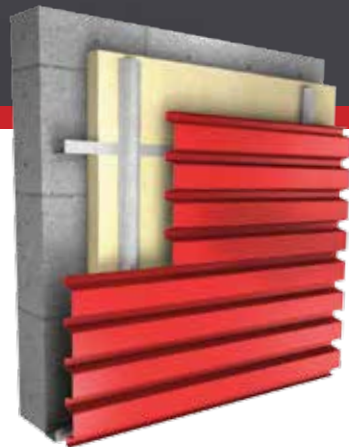


ROOF PROFILING  
INTERMEDIATE FLOOR SLAB FORMING  
EXAMPLE





ROOF PROFILING  
INSTALLATION EXAMPLE



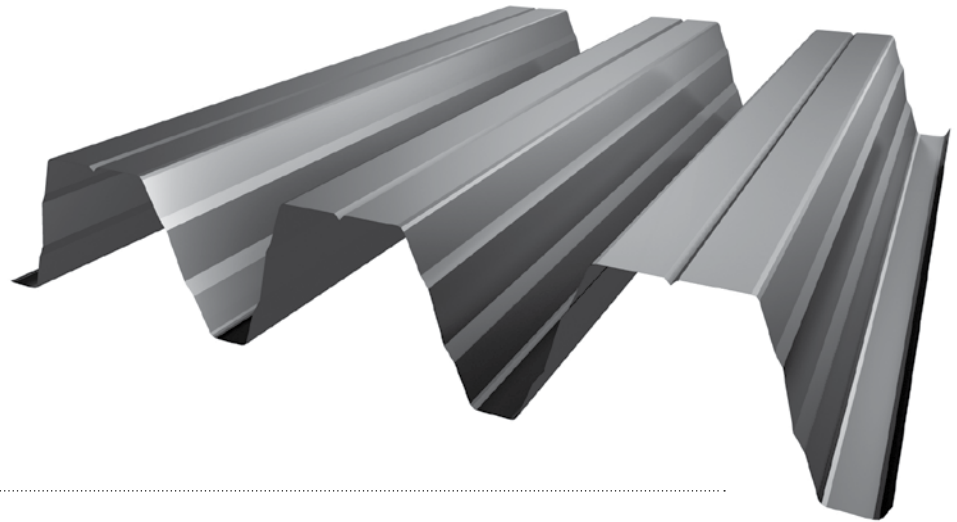
FACADE PROFILING  
HORIZONTAL INSTALLATION EXAMPLE



FACADE PROFILING  
VERTICAL INSTALLATION EXAMPLE

# Pan-T150

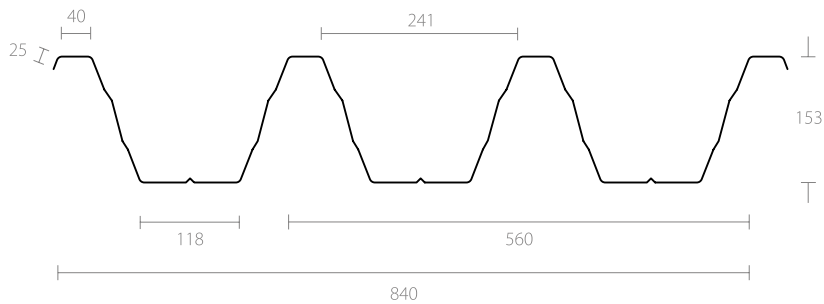
**Pan-T150** is strongest profile in T series. It covers spans over 8 meters with ease. It is used as roofing profile, supporting base for sandwich panels, roof liquid plastics, insulation layers but also for concrete molding.



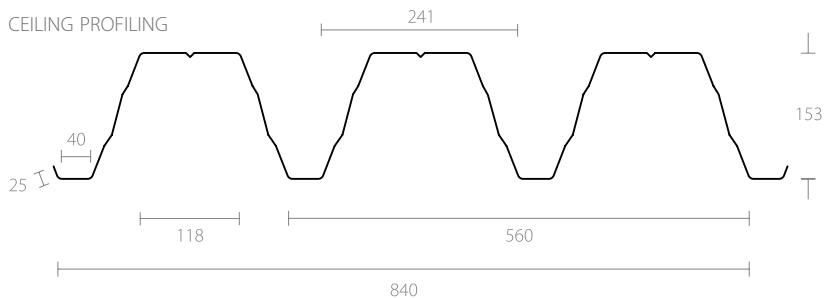
The product can be perforated

## CROSS-SECTION

### ROOF PROFILING



### CEILING PROFILING



## Pan-T150

Profile length	0.5 -17 m
Profile range	up to 9.85 m
Steel thickness	0.75 - 1.25 mm

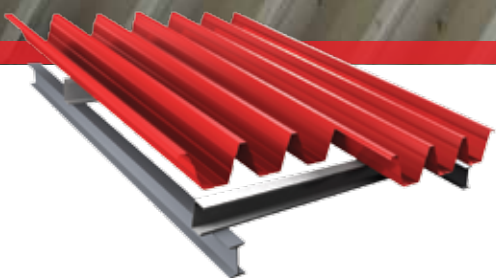
## Weight table

Thickness	Weight kg/m <sup>2</sup>
0.75	10.70
0.88	12.60
1.0	14.30
1.25	17.85

Galvanized







ROOF PROFILING  
INSTALLATION EXAMPLE



CEILING PROFILING  
PVC MEMBRANE ROOF FORMING EXAMPLE



CEILING PROFILING  
INTERMEDIATE FLOOR SLAB FORMING EXAMPLE

# Pan-S18

**Pan-S18** is moderately profiled sheet metal with 18 mm high waves and it is widely used for facade covering and interior elements. It creates a unique effect on every surface.

This product can be made of aluminum and galvanized steel sheet metal.



Antikondenz felt can be placed



The product can be curved

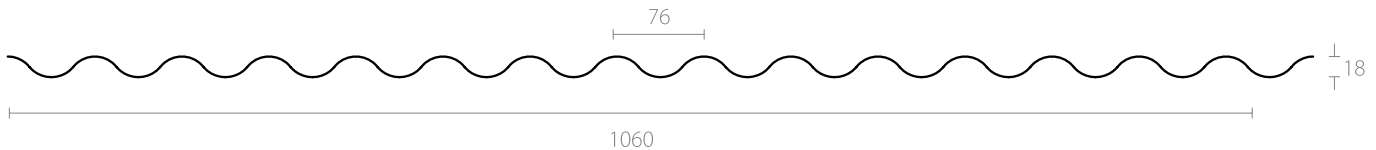


The product can be perforated



The product can be made of transparent polycarbonate

## CROSS-SECTION



## Pan-S18

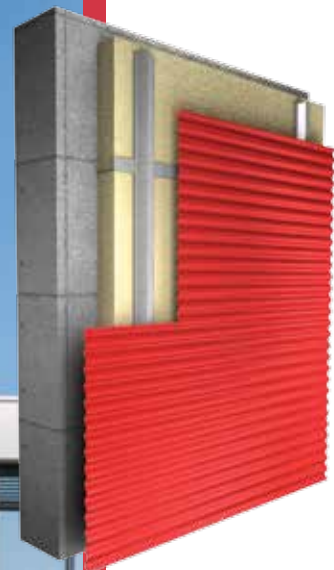
Profile length	0.2 - 9 m
Profile range	up to 2.3 m
Steel thickness	0.5 - 0.8 mm
Aluminium thickness	0.7 - 1.0 mm

## Weight table

Thickness	Weight kg/m <sup>2</sup>	
0.5	4.70	x
0.6	5.66	x
0.7	6.60	2.23
0.8	7.54	2.55
1.0	x	3.18

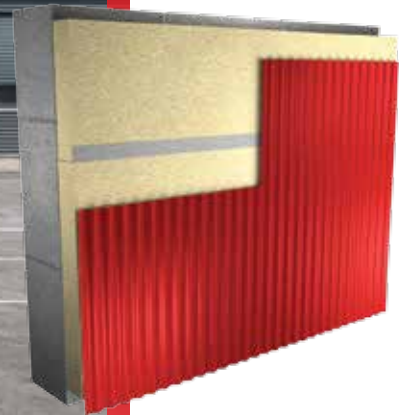
Galvanized Aluminium





HORIZONTAL INSTALLATION EXAMPLE

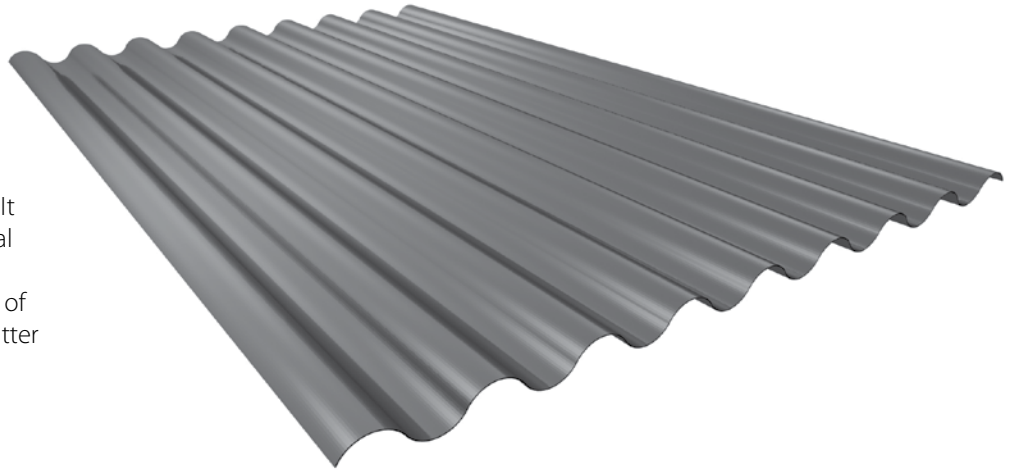
.....  
VERTICAL INSTALLATION EXAMPLE



# Pan-S27

**Pan-S27** sinusoidal profiled sheet metal which follows the latest trends in architecture and building construction. It stands out from the standard trapezoidal profiles with its harmonious curves and it makes the facades and roofs true works of art. Curved profile lines provide easy water run-off and dust free surfaces.

This product can be made of aluminum and galvanized steel sheet metal.



Antikondenz felt can be placed



The product can be curved

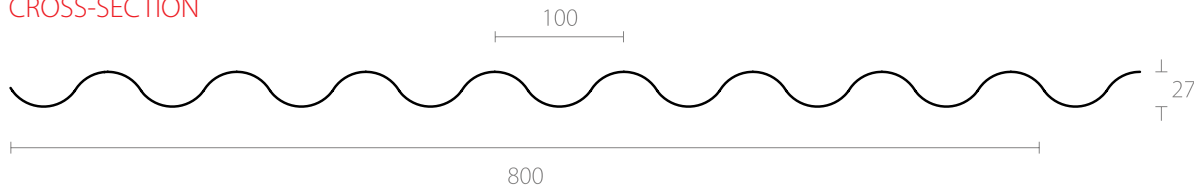


The product can be perforated



The product can be made of transparent polycarbonate

## CROSS-SECTION



## Pan-S27

Profile length	0.2 - 12 m
Profile range	up to 3.3 m
Steel thickness	0.5 - 1.5 mm
Aluminium thickness	0.6 - 1.5 mm

## Weight table

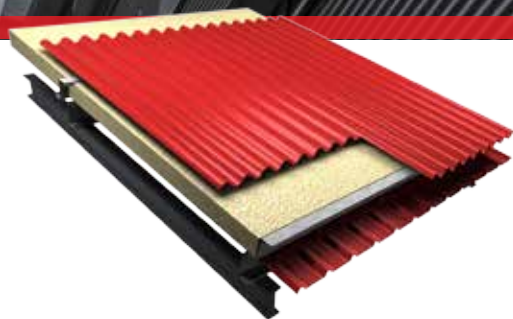
Thickness	Weight kg/m <sup>2</sup>	
0.5	5.0	x
0.6	6.0	2.03
0.7	7.0	2.41
0.8	8.0	2.40

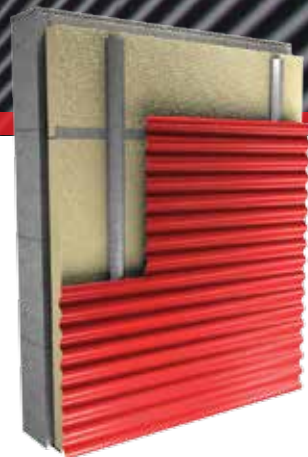
Thickness	Weight kg/m <sup>2</sup>	
1.0	10.0	3.37
1.2	12.0	4.05
1.5	15.0	5.06

Galvanized Aluminium

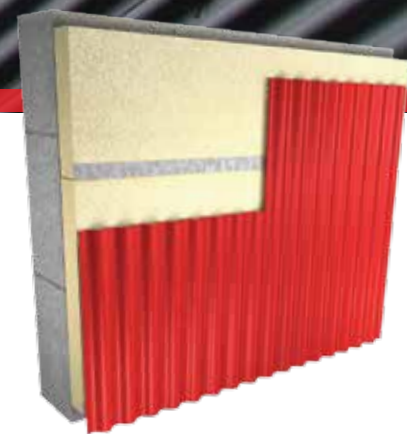




ROOF PROFILING  
INSTALLATION EXAMPLE



FACADE PROFILING  
HORIZONTAL INSTALLATION EXAMPLE



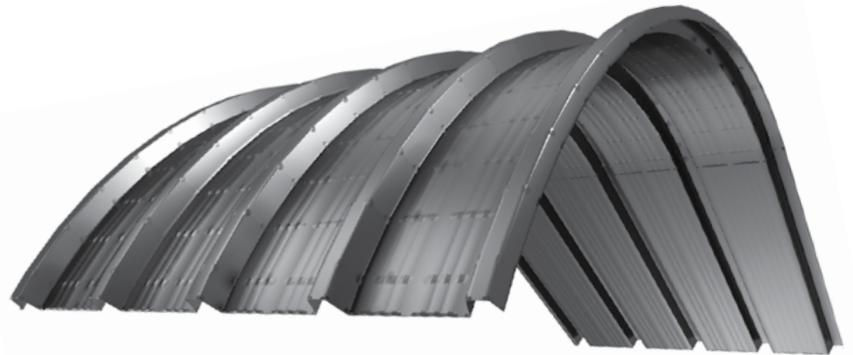
FACADE PROFILING  
VERTICAL INSTALLATION EXAMPLE

# Pan-LT18 i LT40

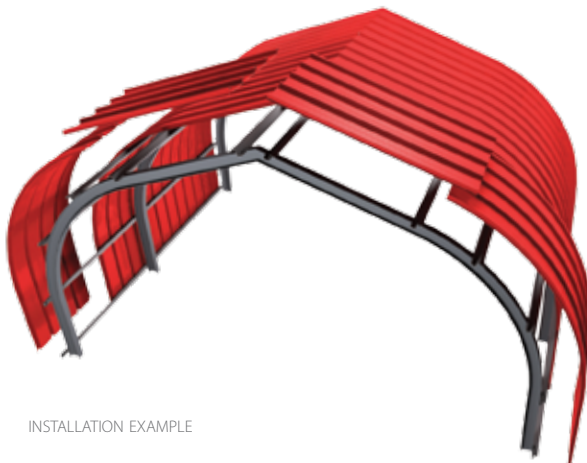
Trapezoidal profiled sheets, arched according to the roof construction radius, represent efficient and quick curved roofing solution.

**Curved roofing profiles** decrease amount of necessary roof construction due to its great load bearing capacity. Curved roofing profiles are ideal for hangar construction and they are delivered on site in prefabricated radius so no further modification is needed.

This products can be made of aluminum and galvanized steel sheet metal.



Antikondenz felt can be placed



INSTALLATION EXAMPLE

## Pan-LT18

Profile length	1 - 9 m
Minimum radius	up to 3 m
Steel thickness	0.5 - 0.8 mm
Aluminium thickness	0.6 - 1.0 mm

## Weight table

Thickness	Weight kg/m <sup>2</sup>	
0.5	4.70	x
0.6	5.66	1.91
0.7	6.60	2.23
0.8	7.50	2.55
1.0	x	3.18

## Pan-LT40

Profile length	1 - 9 m
Minimum radius	up to 2 m
Steel thickness	0.5 - 0.8 mm
Aluminium thickness	0.7 - 1.0 mm

## Weight table

Thickness	Weight kg/m <sup>2</sup>	
0.5	5.10	x
0.6	6.12	x
0.7	7.14	2.41
0.8	8.16	2.75
1.0	x	3.44

Galvanized Aluminium

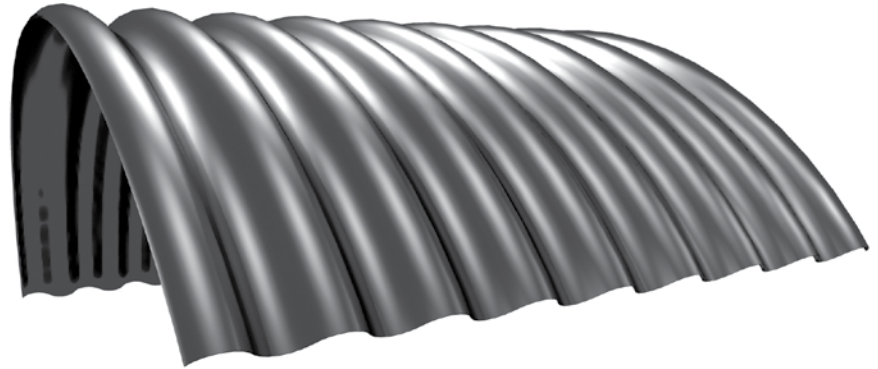


# Pan-LS18 i LS27

Curved sinus roofing profile sheets are mostly used as an element of hangar construction.

It also can be used as curved wall elements of grain silos with an extraordinary load bearing capacity. These profiles are delivered on site in prefabricated radius so no further modification is needed.

This products can be made of aluminum and galvanized steel sheet metal.



Antikondenz felt can be placed

## Pan-LS18

Profile length	1 - 9 m
Minimum radius	up to 3 m
Steel thickness	0.5 - 0.8 mm
Aluminium thickness	0.7 - 1.0 mm

## Weight table

Thickness	Weight kg/m <sup>2</sup>	
0.5	4.70	x
0.6	5.66	x
0.7	6.60	2.23
0.8	7.54	2.55
1.0	x	3.18

## Pan-LS27

Profile length	1 - 9 m
Minimum radius	up to 2 m
Steel thickness	0.5 - 1.5 mm
Aluminium thickness	0.6 - 1.5 mm

## Weight table

Thickness	Weight kg/m <sup>2</sup>	
0.5	5.0	x
0.6	6.0	2.03
0.7	7.0	2.41
0.8	8.0	2.40
1.0	10.0	3.37
1.2	12.0	x

Galvanized Aluminium

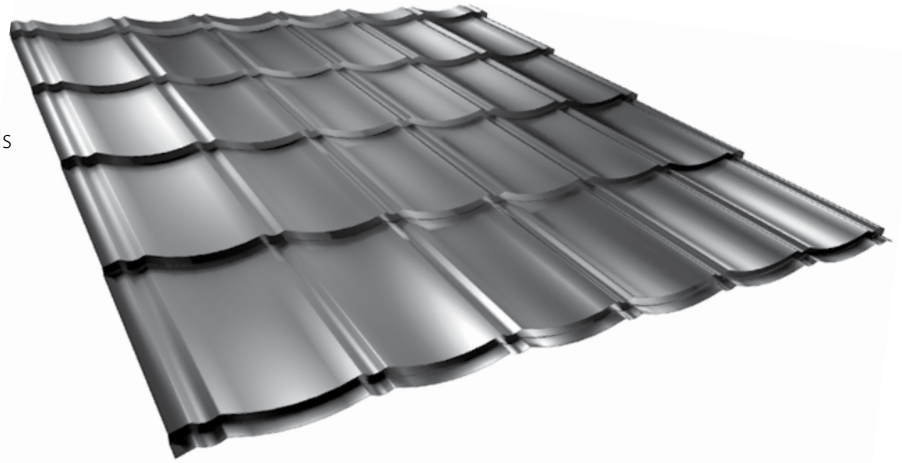
SILO FORMATING EXAMPLE



# Pan-C15

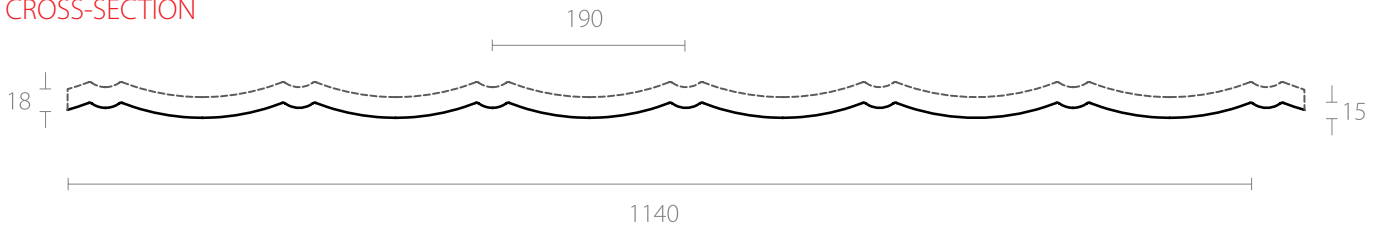
**Pan-C15** combines the classic look and everlasting values of continental roof tiles with modern materials that ensure durability of your roof. Earthquake and UV radiation resistant, sheet metal tile is up to 10 times lighter than traditional ceramic one. Pan-C15 has been carefully designed to complete the most representative mountain ambience residences and urban center objects as well.

This product can be made of aluminum and galvanized steel sheet metal.



Antikondenz felt can be placed

## CROSS-SECTION



## Pan-C15

Profile length	0.4 - 6 m
Profile range	350 mm
Steel thickness	0.5 - 0.6 mm
Aluminium thickness	0.6 - 0.8 mm

## Weight table

Thickness	Weight kg/m <sup>2</sup>	
0.5	4.70	x
0.6	5.66	1.91
0.7	x	2.22
0.8	x	2.55

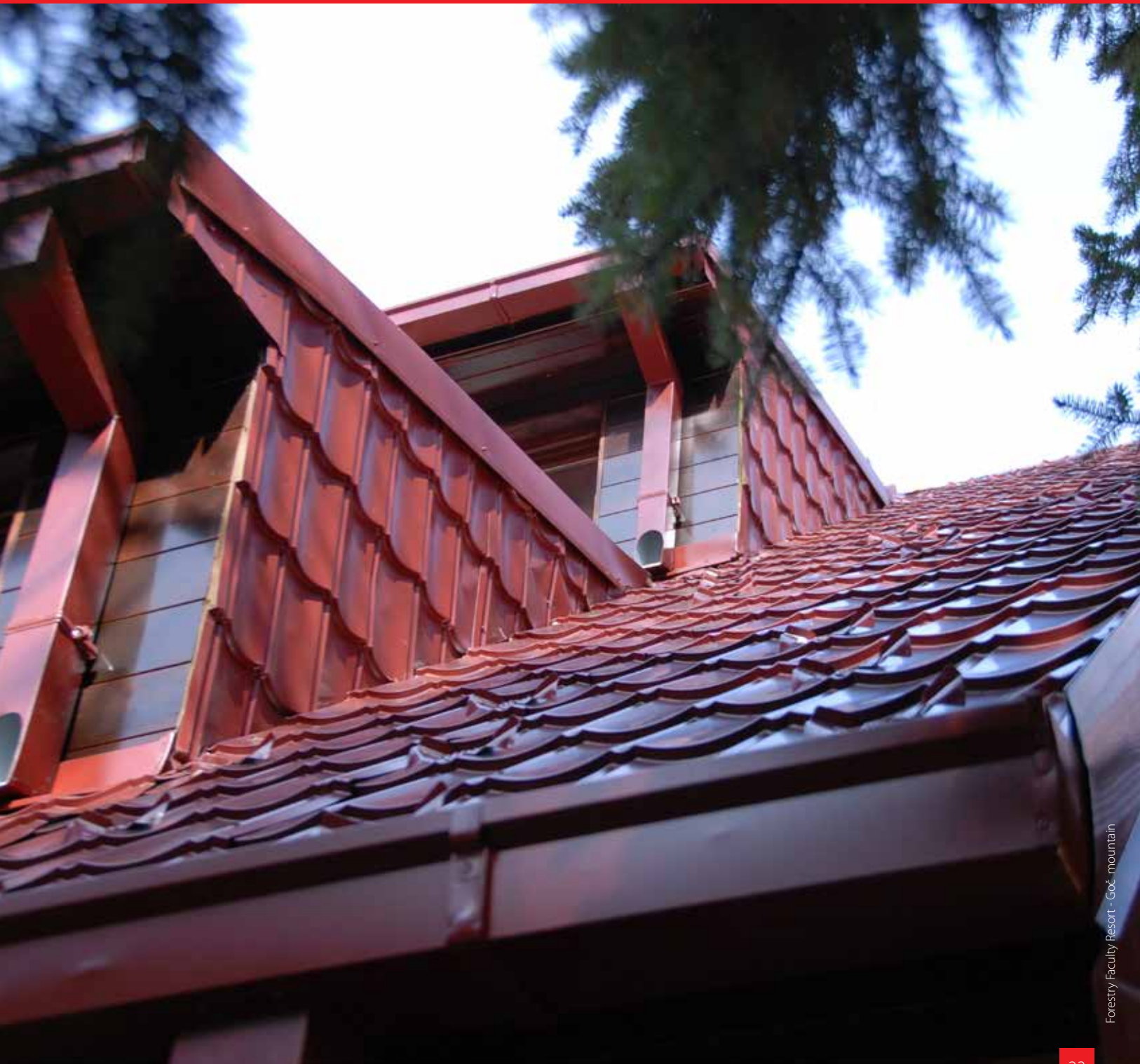
Galvanized Aluminium



INSTALLATION EXAMPLE







# Pan-C40

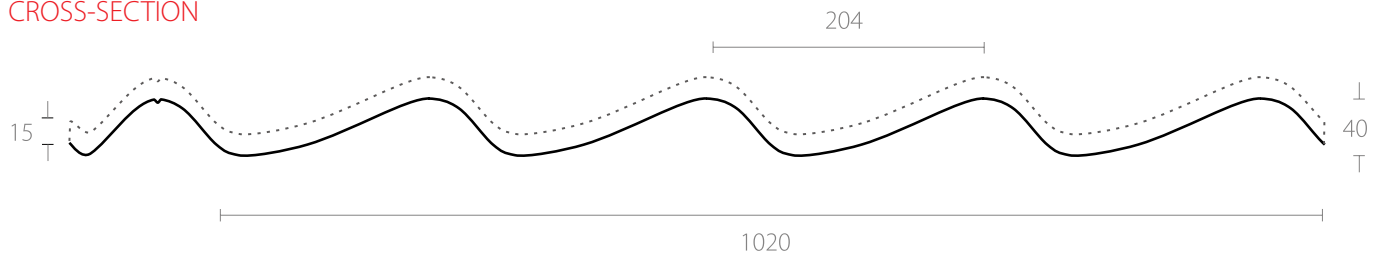
**Pan-C40** is roofing tile shaped profile. Durable, safe and beautiful. With its 40 mm high profile, it provides the rigidity and resistance to all elements. Single sheets are produced up to 8 meters long.

This product can be made of aluminum and galvanized steel sheet metal.



Antikondenz felt can be placed

## CROSS-SECTION



## Pan-C40

Profile length	0.4 - 6 m
Profile range	395 mm
Steel thickness	0.5 - 0.6 mm
Aluminium thickness	0.6 - 0.8 mm

## Weight table

Thickness	Weight kg/m <sup>2</sup>	
0.5	5.00	x
0.6	6.10	2.05
0.7	x	2.40
0.8	x	2.75

Galvanized Aluminium



INSTALLATION EXAMPLE





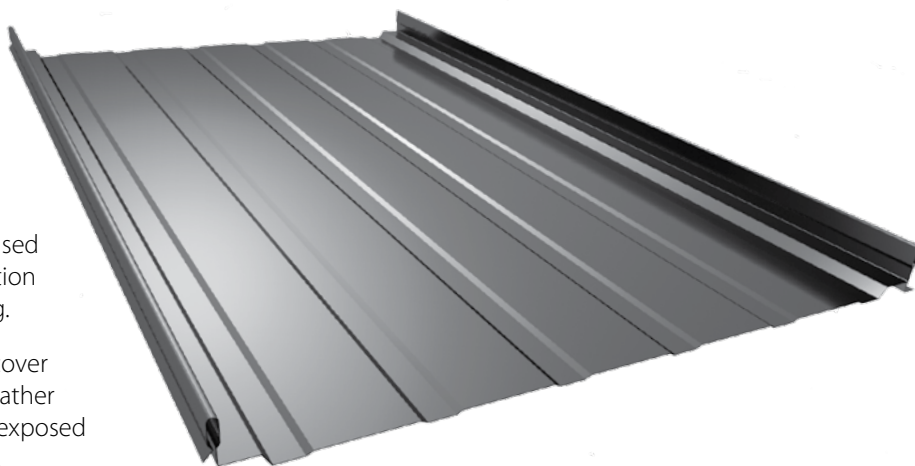
# Pan-F

Profiled metal sheet from F series imitates classic flat sheets user for traditional roofing.

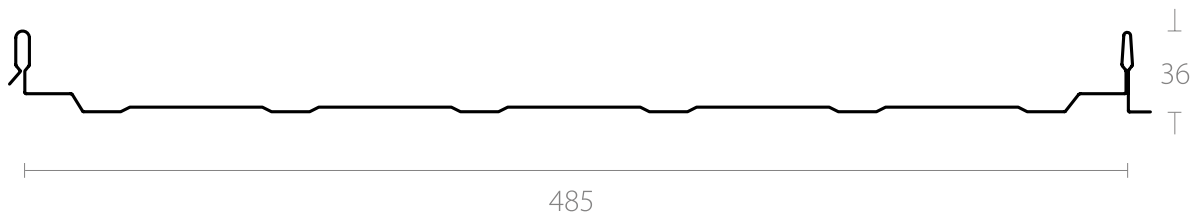
This interlocking roofing profile can be equally used for facades and ceilings and provide fast instalation process opposite to traditional flat sheet roofing.

Elevated overlaps of **Pan F** profile unnoticeably cover the fasteners so they are not exposed to the weather elements. Moreover, the profile has the unique exposed edge for eventual disassembly of the roof cover.

This product can be made of aluminum and galvanized steel sheet metal.



## CROSS-SECTION



## Pan-F

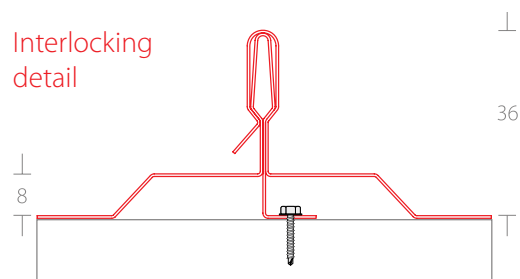
Profile length	0.2 - 9 m
Profile range	up to 0.3 m
Steel thickness	0.5 - 0.6 mm
Aluminium thickness	0.6 - 0.7 mm

## Weight table

Thickness	Weight kg/m <sup>2</sup>	
0.5	5.20	x
0.6	6.20	2.10
0.7	x	2.45
0.8	x	2.80

Galvanized Aluminium

## Interlocking detail





ROOF PROFILING  
INSTALLATION EXAMPLE



FACADE PROFILING  
HORIZONTAL INSTALLATION EXAMPLE



FACADE PROFILING  
VERTICAL INSTALLATION EXAMPLE

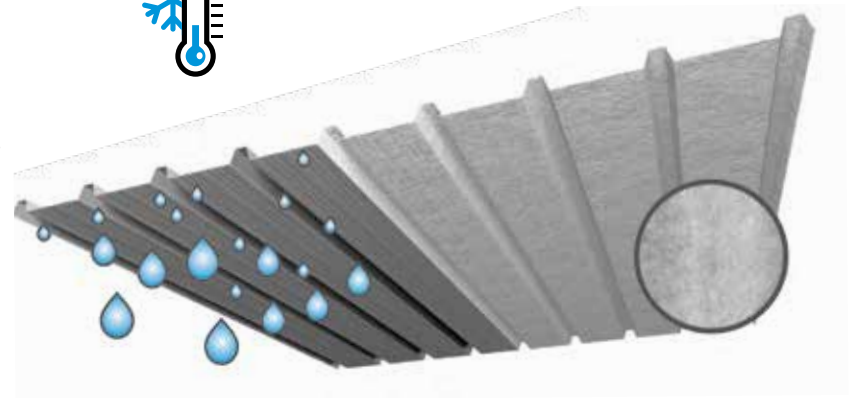
# Antikondenz felt

DRIPSTOP antikondenz felt solves one of the biggest problems of metal roofing: condensation!

Dripping of moisture occurs on uninsulated metal sheets in periods of day when the temperature of outside air is higher than one inside the building, mostly at night. Moisture absorbed by DRIPSTOP is 1 l/m<sup>2</sup> it evaporates by natural ventilation during the day. The felt is selfadhesive material and it is applied on the back of the sheet metal prior to the corrugation process.

## Advantages of DRIPSTOP:

- » Underlayers are not required
- » Faster roof installation
- » Additional sheet metal protection
- » Absorbes sound (rain)
- » Bacterial resistance
- » Fire resistance class A2-s1 (Standard EN 13501).



## Use of Dr!pstop antikondenz felt

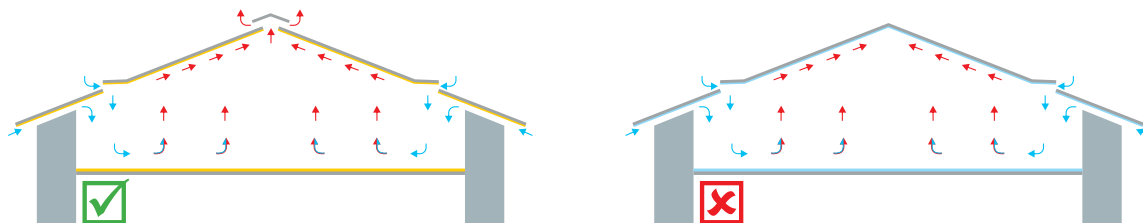
Model	Dr!pstop	Model	Dr!pstop
Pan-T2	✘	Pan-LT18	✓
Pan-T10	✓	Pan-LT40	✓
Pan-T18	✓	Pan-LS18	✓
Pan-T40	✓	Pan-LS27	✓
Pan-T60	✓	Pan-C15	✓
Pan-T150	✘	Pan-C40	✓
Pan-S18	✓	Pan-F	✘
Pan-S27	✓	Cassette syst.	✘

## The appearance of profiles with antikondenz felt





### Ventilation process



For anticondensation felt to work properly, natural roof ventilation is required in order to dry the membrane during the day. Otherwise, moisture stays in the felt and starts to drip. Moisture absorbed by DRIPSTOP is 1 liter per square meter.

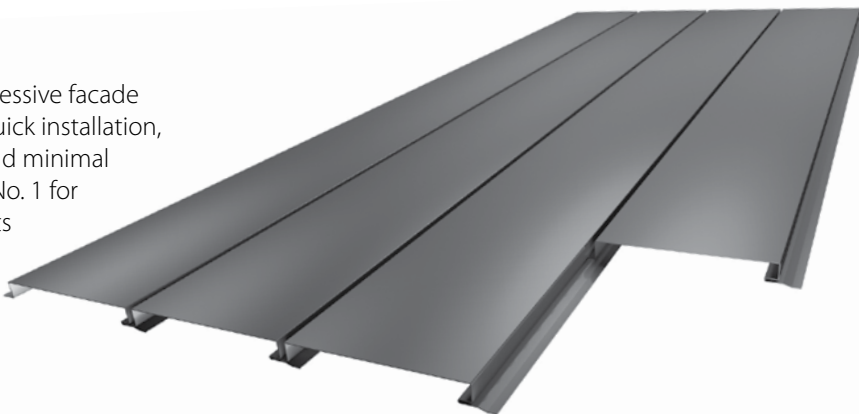
# Pan-Ks

**Pan Ks (Cassette system)** forms a stylish and impressive facade in line with architecture global trends. Easy and quick installation, hidden mounting system, a variety of materials and minimal maintenance make these facades are the choice No. 1 for covering of representative and commercial objects all around the world.

This product can be made of aluminium and galvanized steel sheet metal and titanium zinc.



The product can be perforated



## Pan-Ks

Profile length	0.1 - 6 m
Profile range	up to 2 m
Aluminium thickness	0.6 - 1.0 mm
Steel thickness	0.5 - 0.7 mm
Titanium zinc thickness	0.6 - 1.0 mm
Cooper thickness	0.5 - 0.7 mm

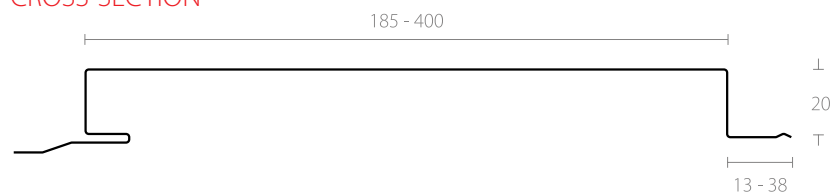
## Weight table\*

Thickness		Weight kg/m <sup>2</sup>			
0.50	x	6.60	x	7.42	
0.55	x	x	x	8.17	
0.60	2.70	7.90	7.12	8.91	
0.70	3.10	9.25	8.32	10.4	
0.80	3.60	x	9.50	x	
1.00	4.46	x	11.9	x	

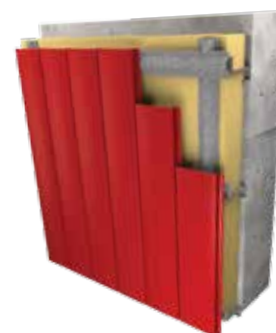
Aluminium Steel Titanium zinc Cooper

\*Weights are given for elements of a width of 200 mm

## CROSS-SECTION



HORIZONTAL INSTALLATION EXAMPLE



VERTICAL INSTALLATION EXAMPLE



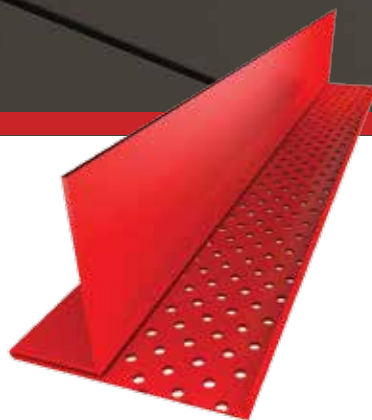




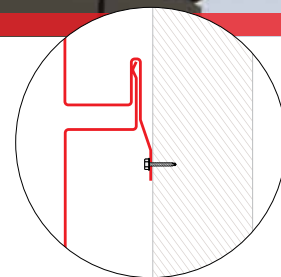
CORNER ELEMENT



SIDE CLOSURE ELEMENT



FIRST PERFORATED MOLDING

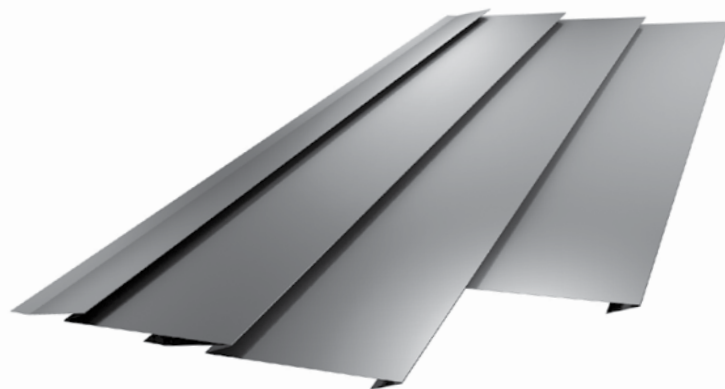


INSTALLATION DETAIL

# Pan-Kz

This facade profiled element can ideally follow object complex lines and allows achieving unique visual effect. Thanks to the hidden fixing elements it can be used to cover the steeper roofs.

This product can be made of aluminum and galvanized steel sheet metal and titanium zinc.



The product can be perforated

## Pan-Kz

Profile length	0.5 - 4 m
Aluminium thickness	0.7-1.0 mm
Steel thickness	0.6 - 0.8 mm
Titanium zinc thickness	0.7 - 1.0 mm
Copper thickness	0.55 - 0.7 mm

## CROSS-SECTION

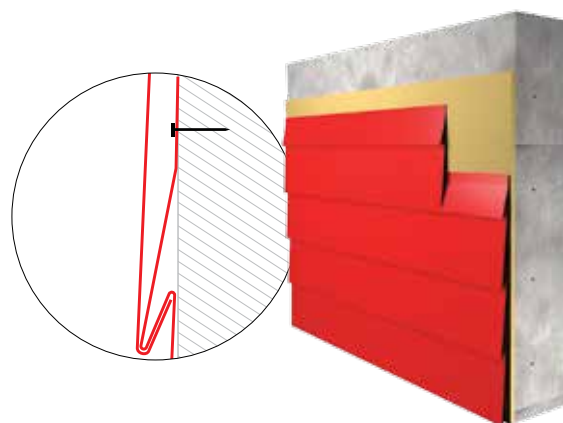


## Weight table\*

Thickness		Weight kg/m <sup>2</sup>			
0.55	x	x	x	x	8.23
0.60	x	8.00	x	x	9.00
0.70	3.15	9.30	8.40	x	10.5
0.80	3.60	10.65	9.60	x	x
1.00	4.50	x	12.0	x	x

Aluminium Steel Titanium zinc Cooper

\*Weights are given for elements of a width of 200 mm



HORIZONTAL INSTALLATION DETAIL AND EXAMPLE



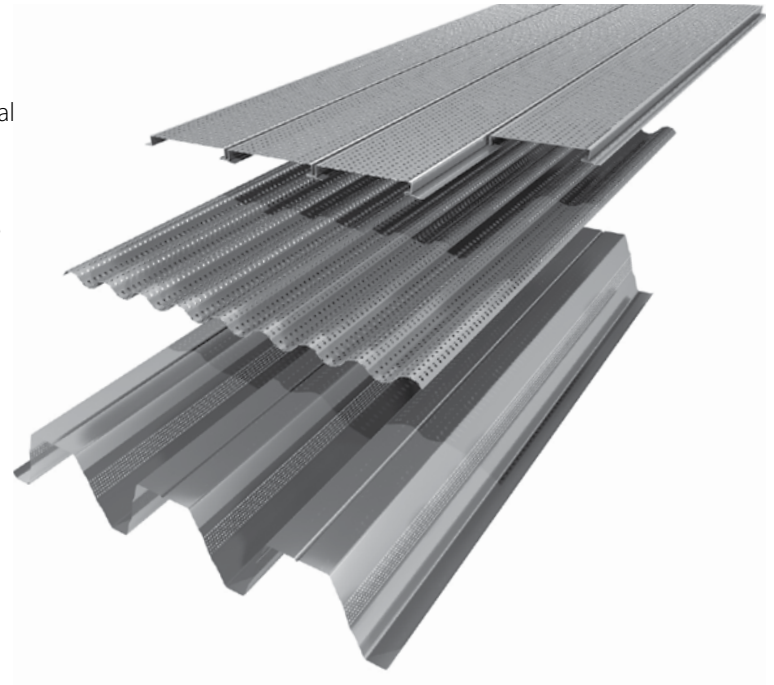


# Perforated profiles

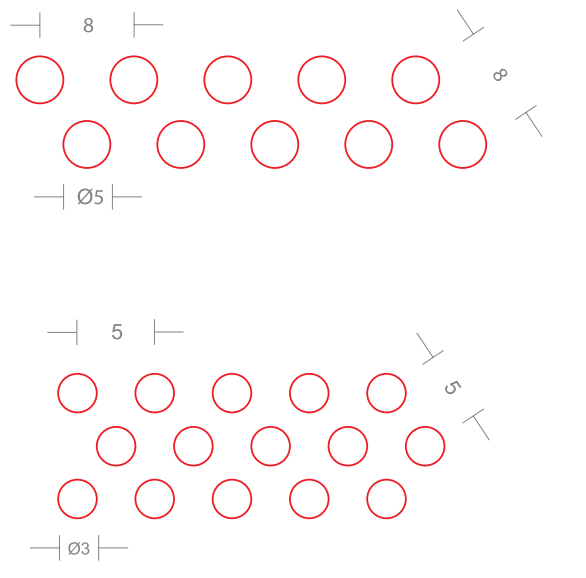
In cases when providing of ventilation or semitransparent metal coating is necessary, best choice is **Pan perforated profiles**.

A combination of mechanical properties of profiled sheets with aesthetic or functional benefits of perforated surfaces, we created a unique products that enables realization of the most demanding design and engineering projects.

In addition to the standard dimensions and arrangement of openings and other variations that provides different levels of transparency are possible.



## Perforation examples



## Use of perforation on Pan metal sheets

Model	Perforation	Model	Perforation
Pan-T2	✘	Pan-LT18	✓
Pan-T10	✓	Pan-LT40	✓
Pan-T18	✓	Pan-LS18	✓
Pan-T40	✓	Pan-LS27	✓
Pan-T60	✓	Pan-C15	✘
Pan-T150	✓	Pan-C40	✘
Pan-S18	✓	Pan-F	✘
Pan-S27	✓	Cassette syst.	✓

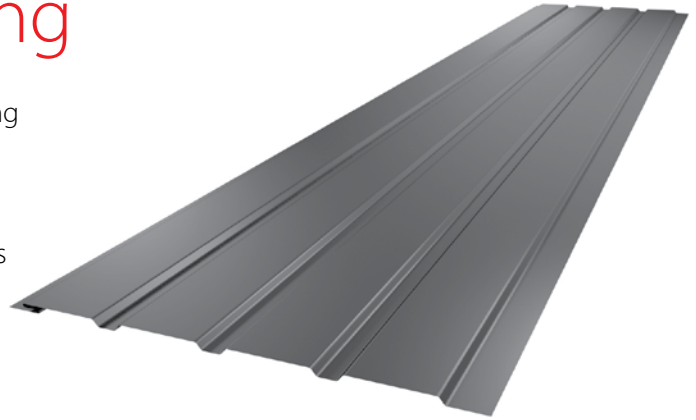




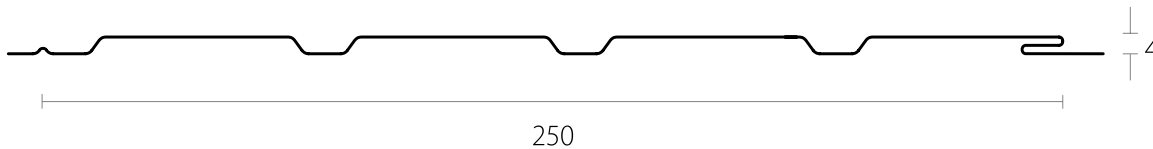
Kindergarten "Tesla", New Belgrade

# Aluminium eave flashing

**Aluminum orfiled metal sheets** provide efficient eave flashing solution for residential buildings. It is produced out of 4 mm thick embossed aluminum (rugged surface) which provides extraordinary durability and strength of covered surfaces. Its hidden interlocking fold provides ability to fit adjacent sheets with no visible endings and nails.



## CROSS-SECTION



## Aluminium eave flashing

Profile length	2.5 m
Aluminium thickness	0.4 mm
Weight	1.23 kg/m <sup>2</sup>



VERTICAL INSTALLATION EXAMPLE



HORIZONTAL INSTALLATION EXAMPLE

## INSTALLATION DETAIL



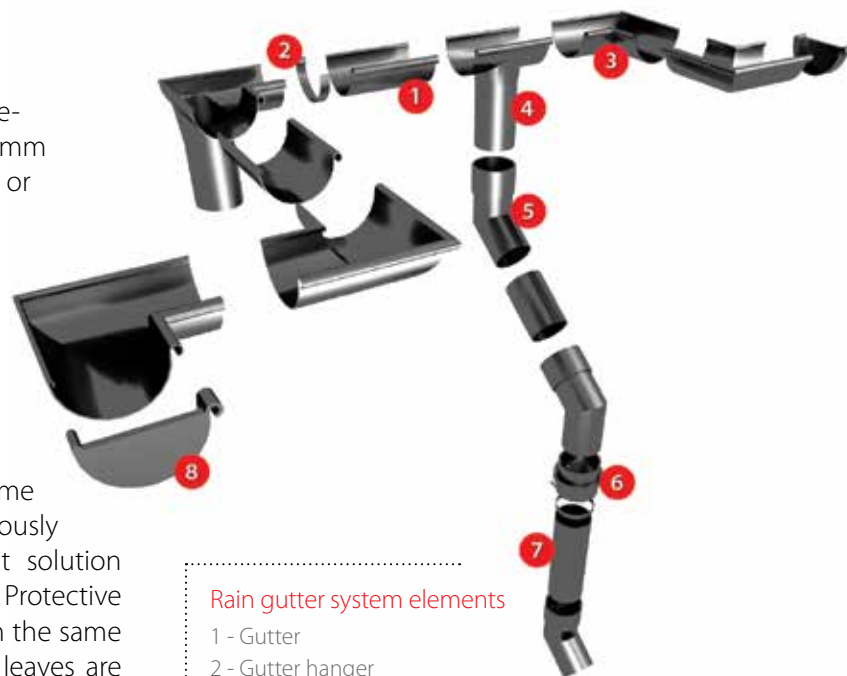
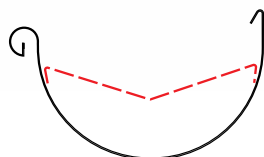
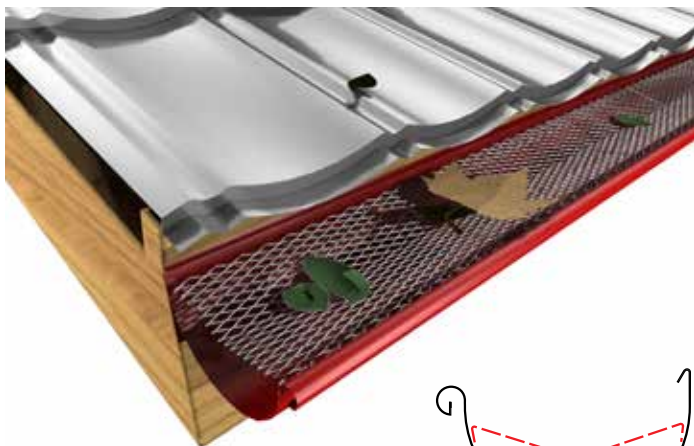
# Rain gutter system

**Pan halfround gutters** are produced on state-of-the-art machines in virtually any length. Gutters are 100 mm in diameter and can be produced out of galvanized or prepainted steel sheets.

In our product range you can find all necessary elements and accessories for installing gutter system.

## Leaf guard mesh

Every fall, homeowners are confronted with the same problem - leaves that build up in rain gutters can seriously endanger proper roof drainage. One permanent solution is metal mesh guard produced by Pan Komer. Protective element provides unobstructed water flow while in the same time retains fallen leaves and debris. Caught up leaves are blown away by wind, once dry. Mesh is longlasting, easy installed and non-visible from below.



### Rain gutter system elements

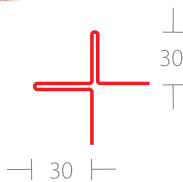
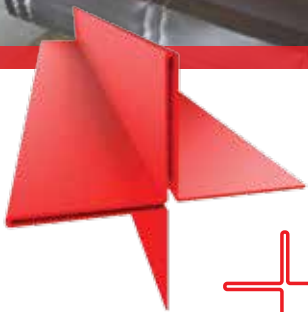
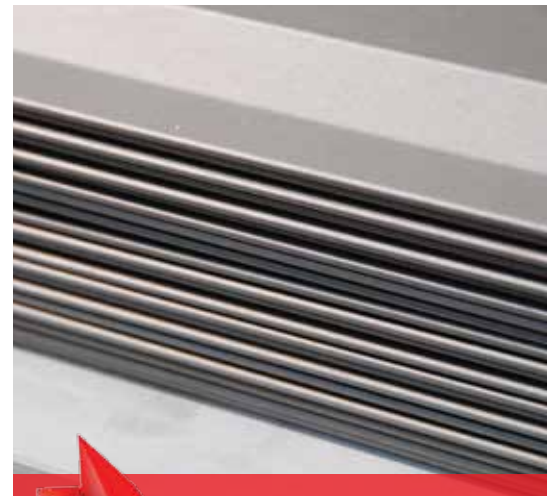
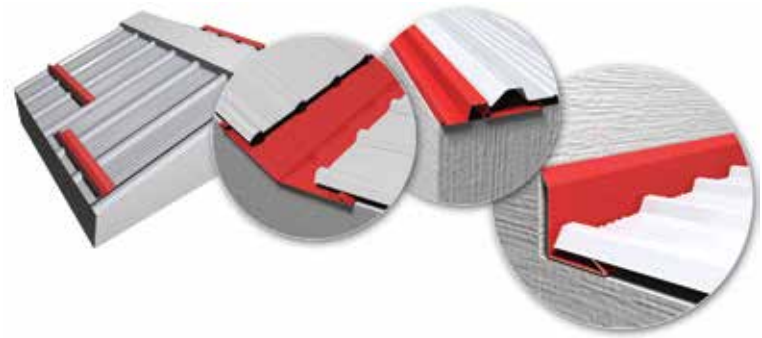
- 1 - Gutter
- 2 - Gutter hanger
- 3 - 90 degree corner
- 4 - Rainhead
- 5 - Elbow
- 6 - Downspout bracket
- 7 - Downspout
- 8 - Gutter end cap



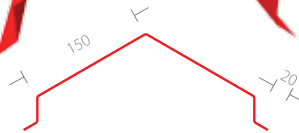
# Flashings

All kinds of **flashings made of aluminum and galvanized/prepainted steel sheets** are custom made exactly to your specifications, maximum 8,2 meters long.

Also, in our product range, there are standard dimension flashings widely used in roofing and construction.



CORNER FLASHING

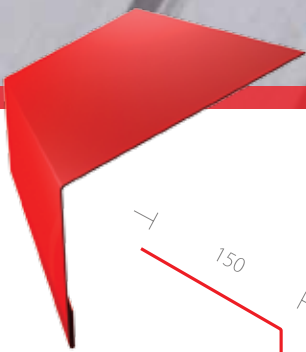


RIDGE CAP

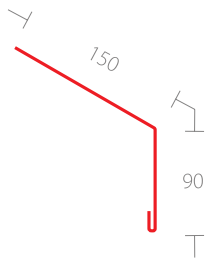


SNOW STOPPER

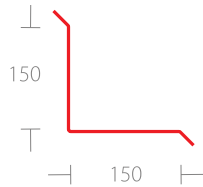




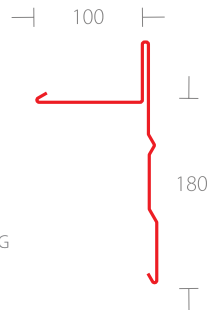
EAVE TRIM



WALL SIDE FLASHING

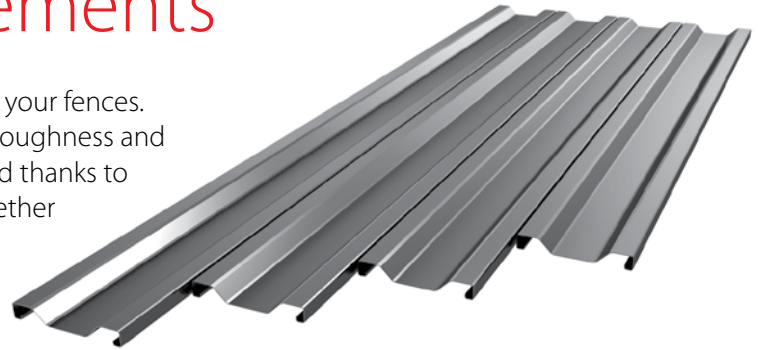


GABLE FLASHING

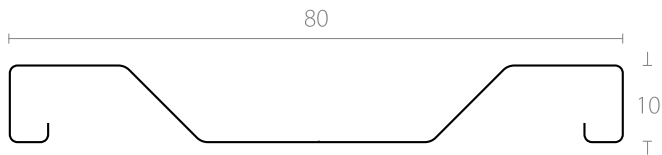


# Sheet metal fence elements

Now you can have toughness and longevity of metal on your fences. Carefully designed element shape provide extraordinary toughness and unique visual impact. Elements can be variously combined thanks to the proportional segments which are seamlessly fitted together if joined.



## CROSS-SECTION



HORIZONTAL INSTALLATION  
EXAMPLE



HORIZONTAL INSTALLATION  
EXAMPLE



VERTICAL INSTALLATION  
EXAMPLE



VERTICAL INSTALLATION  
EXAMPLE



# Accessories

We offer an extensive range of additional products necessary for a complete and safe cover sheets installation: Fasteners, spacers, calottes for a safer installation, SIKA sealants assortment, sheet metal color repair kits and additional products.



## Enke composite coatings

We have enriched our offer with all products of German company **Enke** such as composite coatings for insulation compounds, extended durability and steel surface protection, as well as products for steel sheet cold gluing to concrete, metal or wood.

**ENKOLIT®** is bitumen based plastic material for cold gluing of sheet metal to concrete, metal or wood. 75 tonnes of pull force is needed to separate fixed metal element from the surface. Material lasts over 30 years. Drilling and fixing sheet metal with screws is not needed.

**ENKOPUR®** is a roof coating which completely ensures and insulates overlaps and openings on roofs in combination with special felt layers. These problems are often seen on transparent roof cupolas, roof vents, connections of roof and walls, etc.

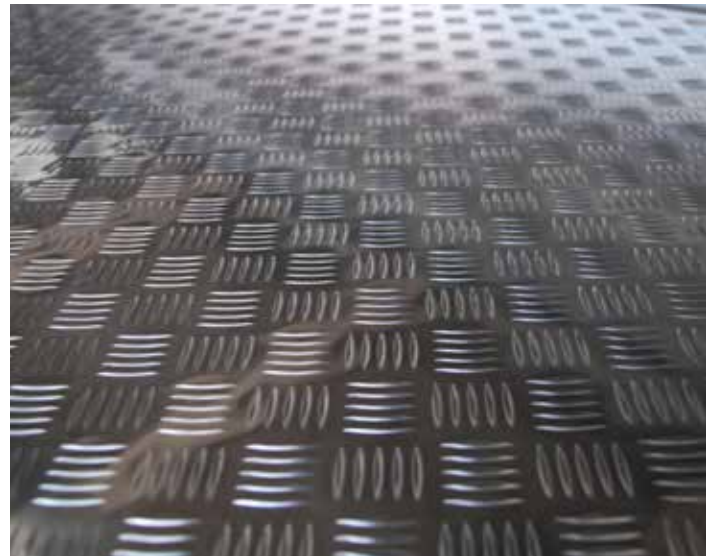


# Flat sheets

Pan Komerč offers a wide range of aluminum and steel sheets.

Aluminum sheets can be prepainted and in mill finish, thicknesses from 0.1 to 5 mm and different alloys. We can also offer checkered aluminum plates for heavy duty floors from 1.0 to 5.0 mm.

Galvanized steel sheets can be also one or two side pre-painted from 0.4 to 1.5 mm thickness with 140 to 275 gr/m<sup>2</sup> of zinc coating. We can deliver all the sheet metal in coils or sheets in desired dimensions with or without protective film.



# The quality of materials

**All materials used in Pan Komerc production has unique attest for quality and technical characteristics that guarantees the origin, physical and chemical properties of sheet metal.** In this way, keeping a complete insight into all the features of the material, customers are guaranteed that demanded material is received.





Like raw material used, our metal roofing profiles also have passed rigorous testing programme by certified Institute for materials and construction on **Belgrade Faculty of Civil Engineering**. In addition, physical and chemical properties of materials used in our production are tested in **Faculty of Technology and Metallurgy, Belgrade**. These certificates confirm the load bearing capacity for every tested profile which provides additional security when designing and installing profiles for significant projects. It's worth mentioning that Pan Komerc is the **only company of its kind in Serbia that acquired these certificates**.

Sheet metal that Pan Komerc exclusively use for the profiled steel sheets production is delivered by the world's largest steel producer **Arcelor-Mittal**. That ensures continuous quality of our products without oscillations in the characteristics of sheet metal.

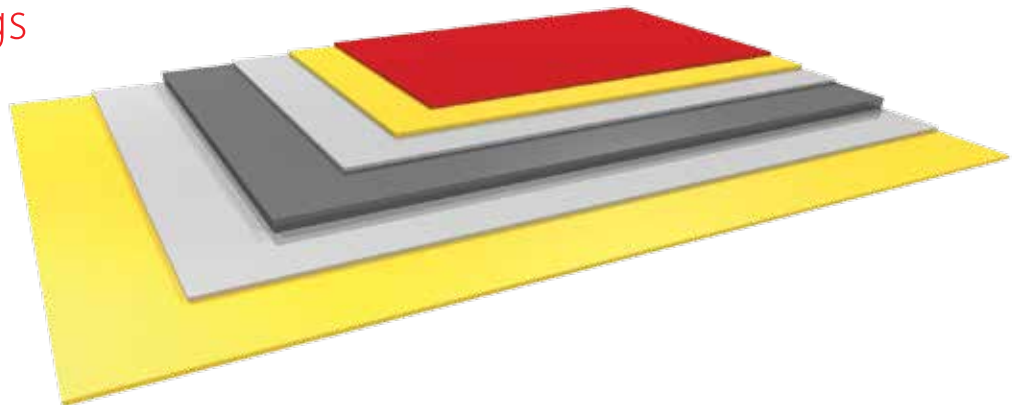
## Our partners



## Protective coatings

-  Polyester coating 20 $\mu$
-  Primer 7 $\mu$
-  Zinc coating 140 gr/m<sup>2</sup>
-  Steel base DX51 (0,5mm)

\*The values can be changed upon request



# Standard colours chart

## Aluminium

### Uncoated materials



Embossed Aluminum

### Special polyester colors



Green patina



Cooper Patina

### Organic polyester colors



RAL 9006  
Silver Metallic



RAL 9007  
Gray Metallic



RAL 9002  
Alpine White



RAL 9005  
Black



RAL 7016  
Anthracite



RAL 8019  
Earth Brown



RAL 2013  
Cooper Metallic



RAL 3020  
Fire Red



RAL 3009  
Brick Red



RAL 6021  
Steppe Green



RAL 6028  
Forest Green



RAL 5009  
Indigo



RAL 5010  
Indigo

### Laminated foil - wood imitation



Pear



Walnut



Spruce



Golden Oak



Dark Oak

## Titanium zinc



Natural



Nova



Noir

\* Custom colors available on request.

Despite the effort to accurately reproduce colors, due to technical reasons display view or printed catalogs may vary from the actual color of the product. Please refer to actual color samples before buying.

# Galvanized steel

## Uncoated materials



Galvanized Steel

## Special polyester colors



Green patina



Cooper Patina

## Organic polyester colors



RAL 9006  
Silver Metallic



RAL 9007  
Gray Metallic



RAL 9002  
Alpine White



RAL 9003  
Pure White



RAL 9005  
Black



RAL 9005 M  
Black matte



RAL 7016  
Anthracite



RAL 3020  
Fire Red



RAL 8019  
Earth Brown



RAL 8017 M  
Coffee Brown matte



RAL 3009  
Brick Red



RAL 3009 M  
Brick Red matte



RAL 5010  
Sea Blue



RAL 6028  
Forest Green



RAL 6020 M  
Amazon Green matte

## Laminated foil - wood imitation



Pear



Walnut



Spruce



Golden Oak



Dark Oak

# TECU patinated copper



Tecu Brass



Tecu Classic



Tecu Iron 1



Tecu Iron 2



Tecu Oxid



Tecu Patina

\* Custom colors available on request.

Despite the effort to accurately reproduce colors, due to technical reasons display view or printed catalogs may vary from the actual color of the product. Please refer to actual color samples before buying.

# Services

Complementing the wide product range, with latest technology, Pan Komerc offers additional services which complete sheet metal elements range.

**CUT TO LENGTH** - We can provide cut-to-length services of aluminum sheets up to 4 mm thickness and steel sheets up to 2 mm, which can be cut in maximum 1.5 m width and infinite length.

**SLITTING** - Roll slitting of aluminum sheet metal can be performed up to 2 mm and steel sheet metal up to 1.5 mm thickness. Maximum roll slitting width is 1,250 mm, minimal strip width is 80 mm with 0.5 mm precision. 2009 Austrian made slitting machine is used for this operation. For slitting precision up to 0.05 mm we use German made slitting machine with 330 mm maximum roll slitting width and 6 mm minimal coil strip width.

**BENDING** - Our modern bending machines can easily form aluminum sheets up to 2 mm, steel sheets up to 1.5 mm thickness and 8.2 m long. We can make custom bending profiles according to provided drawings. Our bending machines are 4, 6, 8 and 8.2 meters long.

**TRANSPORT AND INSTALLATION** - We can deliver Pan Komerc products on sites across Serbia by our own or vehicles owned by our partners. In addition, our experienced teams of roofers can install Pan Komerc products with 2 year installation guarantee.





# References

Each year more than 1,500 new customers, investors and designers recognize the Pan Komerc as safe and proven partner that justifies their trust. These are just some of them...



NIS Gazprom Neft Serbia, KNAUF INTERFER Germany, OMYA Austria, HOTEL ZIRA Belgrade, Shopping moll UŠĆE Belgrade, BMW Serbia, ŠKODA Serbia, TOYOTA Serbia, FIAT Serbia, AUDI (Audi salons, France), ASTON MARTIN (Aston Martin salon, Croatia), NEKTAR Serbia, CARLSBERG Serbia, BREWERY APATIN Serbia, TETRA PACK Serbia, SWISS LION TAKOVO Serbia, STADA-HEMOFARM Serbia, ENMON Serbia, ATOMSKA BANJA Serbia, URADI SAM Serbia, BOHOR Serbia, BEMAX Montenegro, TRIMO Serbia, BOSNIA RAILWAYS, Police Academy Danilovgrad Montenegro, Užice and Pirot Swimming Pools, Arilje, Vrnjačka Banja, Požega, Podgorica Sport Halls...



# Quality certificates



In 2011 Pan Komerc first Serbian company that acquired **CE mark** for profiled metal sheets for roofing and facades.

**What CE mark stands for?** Products labeled with **CE mark** are sold in EU market and they meet the demands of European standards which guarantee safe use (including safety, health and environmental regulations). The product needs **CE mark** in order to be sold on the EU market.

As an exporter for many years, Pan Komerc has met strict demands of **EN14782 standard** for sheet metal products and therefore provided additional security and quality of Pan roofing and wall profiles. Product quality control is being performed daily in our manufacturing plant alongside of rigorous testing that our products passed in certified institutes and laboratories.



Pan Komerc has implemented quality management system **ISO 9001:2008** in 2004 with assistance and regulations of German technical service **TUV SUD**. ISO 9001:2008 signifies that company operates according to defined strict criteria in order to achieve quality of products, services and customer satisfaction. Every process in Pan Komerc, from customer support to the manufacture process control, meets this standard.



Pan Komerc has implemented quality management system **ISO 14001:2004** in 2013 with assistance and regulations of German technical service **TUV SUD**. ISO 14001:2004 signifies that our manufacturing process does not pollute the environment and prevent potential adverse impacts. By purchasing our products you assist in achieving this goal.



By choice of **Chamber of Commerce and Industry of Serbia** and **credit-Coface**, Pan Komerc Ltd. is classified as a successful and reliable company. Electronic certificate **Excellent SME** certificate is designed in the spirit of the EU directive on the promotion of successful companies, with the purpose not only to promote successful companies and good business practices, but also increase the transparency of operations and safety and consumer protection.

In addition to products containing this catalog get to know with  
other products in the range of Pan Komerco on our website  
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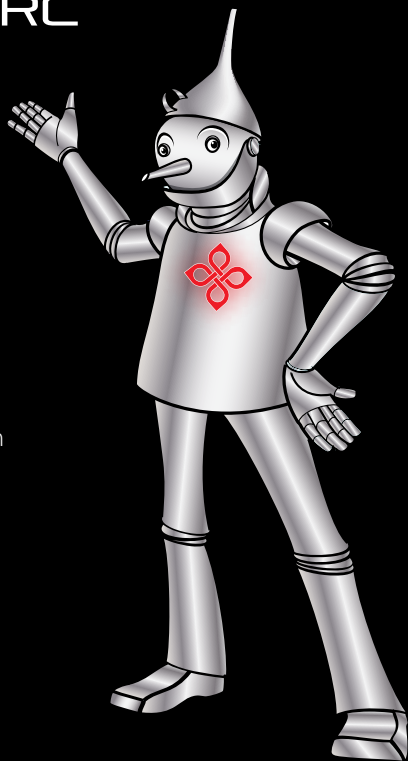
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