



NORDIC

General catalogue
2024

Corrugated sheets

**Flashings &
drainage systems**

Roof and wall panels



Content

About us 03

Corrugated sheets 04

Flashings & drainage systems 14

Roof and wall panels 18

Contact 30



Production line M.I. Hršak



About us

M.I. Hršak d.o.o.

Since its early and modest beginnings 30 years ago, with only three employees producing small metal parts in the workshop within the family house, the company has become a regional leader in the industry of corrugated sheets and metal constructions. Together with being very customer oriented and having strong focus on our core business, the continuous investments which we have been making in both our people and technology, enabled us to achieve such results.

Continuous development and expertise of our employees is enabling us to answer the most sophisticated questions from our clients, while maintaining the flexibility and short lead time. All those factors contributed to a positive image which the company has, not only within the industry, but also within the local community while constantly being able to adapt to market trends.



70.000+

Three
production
lines on more
than 70.000 m²

250+

More than 250
employees

35+

35+ years of
experience



State-of-the-
art automated
technology with
high capacity



Short lead time
with on-site
delivery by our
own fleet



Customer
oriented with
tailor-made
products as a
standard

***Our quality is
confirmed by numerous
certificates from which
we highlight:***

**EN 1090
EN 14782
ISO 3834
ISO 9001**





Corrugated sheets

Tile shape sheet CR 24
Tile shape sheet MODULOS
Trapezoidal sheet T18
Trapezoidal sheet T20
Trapezoidal sheet T35
Trapezoidal sheet T40
Trapezoidal sheet T45
Trapezoidal sheet T154



Tile shape sheet CR 24

Profiled sheet with a tile shape like a classic clay tile. It is most used for private residential facilities since it is very lightweight and easy to install. Its price is more competitive compared to classic clay tiles and easier to install, which makes it a modern building material solution with high aesthetic value. The wave height is 24 millimetres with useful width of 1.100 millimetres. Paint coating comes in a standard thickness of 25 microns or with matt paint with thickness of 35 microns which adds to the aesthetics of the roof.



*Available also with felt



Available colours:



RAL 3009
+ Matte version



RAL 5010



RAL 6028



RAL 7016
+ Matte version



RAL 8019
+ Matte version



RAL 9002



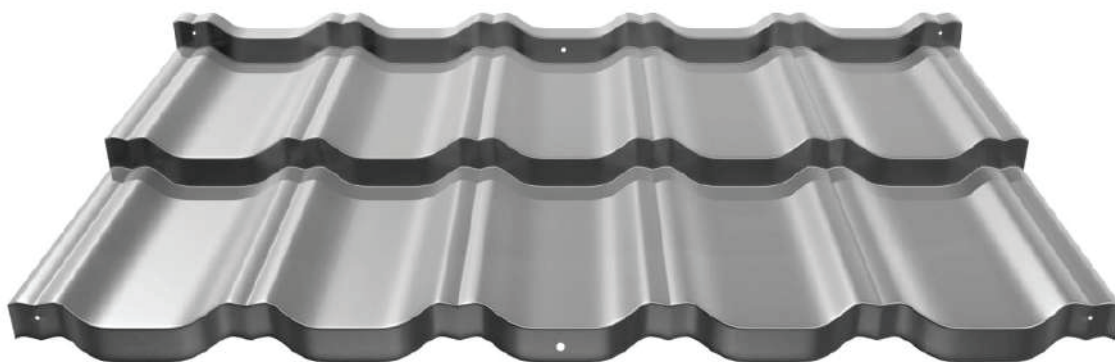
RAL 9005
+ Matte version



RAL 9006

Tile shape sheet MODULOS

Profiled sheet with a tile shape like a classic clay tile, but with innovative characteristics. The wave height is 24 millimetres with useful width of 1.100 millimetres and a standard length of 350 millimetres. This system enables the roofers to cover the roof from left to right and vice versa, while being very easy to handle and thus easier to install. There is also a Do-it-Yourself Easy Install Guide which is given to the customers who decide to purchase this type of corrugated sheets.



***Available also with felt**



Available colours:



RAL 3009
+ Matte version



RAL 5010



RAL 6028



RAL 7016
+ Matte version



RAL 8019
+ Matte version



RAL 9002



RAL 9005
+ Matte version



RAL 9006



TECHNICAL SPECIFICATIONS

Effective width	1150
Total width	1212
Steel thickness	0,50
Total profile height	50/60
Total wave height	25/30
Module length	350
Specific weight	~ 4,5 kg/m
Area covered by one module	0,805 m ²

Trapezoidal sheet T18

Trapezoidal sheet T18 has a wave height of 18 millimetres and with its large tread surface it is commonly used for industrial facilities, but also for residential facilities. It is also often used for mobile homes, eaves etc. Sheets come with corresponding technical documents including guarantees.



*Available also with felt



Available colours:



RAL 3009
+ Matte version



RAL 5010



RAL 6028



RAL 7016
+ Matte version



RAL 8019
+ Matte version



RAL 9002



RAL 9005
+ Matte version



RAL 9006



Trapezoidal sheet T20

Trapezoidal sheet T20 has a wave height of 20 millimetres and it is commonly used for industrial facilities, but also for residential facilities. It is used as a roof cover only if the roof pitch is more than 15 °. It is also often used for mobile homes, eaves etc. Sheets come with corresponding technical documents including guarantees.



*Available also with felt



Available colours:



RAL 3009
+ Matte version



RAL 5010



RAL 6028



RAL 7016
+ Matte version



RAL 8019
+ Matte version



RAL 9002



RAL 9005
+ Matte version



RAL 9006

Trapezoidal sheet T35

Trapezoidal sheet T35 has a wave height of 35 millimetres and with its large tread surface it is commonly used for industrial facilities, but also for residential facilities. Due to its good technical characteristics and high load capacity, it is one of the most popular types of trapezoidal sheets among architects and engineers. Its useful width of 1.000 millimetres is also an advantage compared to others that makes this type very popular. Sheets come with corresponding technical documents including guarantees.



***Available also with felt**



Available colours:



RAL 3009
+ Matte version



RAL 5010



RAL 6028



RAL 7016
+ Matte version



RAL 8019
+ Matte version



RAL 9002



RAL 9005
+ Matte version

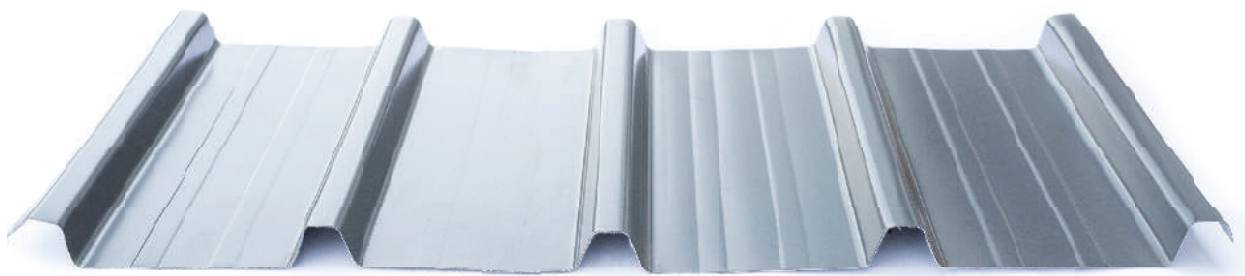


RAL 9006



Trapezoidal sheet T40

Trapezoidal sheet T40 has a wave height of 40 millimetres and with its large tread surface it is commonly used for industrial facilities, but also for residential facilities. Due to its good technical characteristics and high load capacity, it is also one of the most popular types of trapezoidal sheets among architects and engineers. Sheets come with corresponding technical documents including guarantees.



*Available also with felt



Available colours:



RAL 3009
+ Matte version



RAL 5010



RAL 6028



RAL 7016
+ Matte version



RAL 8019
+ Matte version



RAL 9002



RAL 9005
+ Matte version



RAL 9006

Trapezoidal sheet T45

Trapezoidal sheet T45 has a wave height of 45 millimetres and with its large tread surface it is commonly used for industrial and residential facilities, but also as a bearing structure for roofs with a slight pitch or as hidden formwork. Due to its good technical characteristics and high load capacity, it is also one of the most popular types of trapezoidal sheets among architects and engineers. Sheets come with corresponding technical documents including guarantees.



**Available also with felt*



Available colours:



RAL 3009
+ Matte version



RAL 5010



RAL 6028



RAL 7016
+ Matte version



RAL 8019
+ Matte version



RAL 9002



RAL 9005
+ Matte version

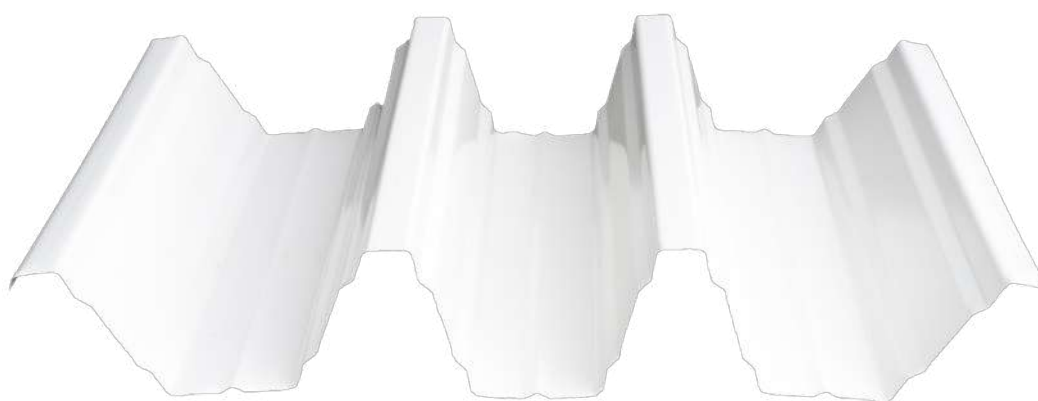


RAL 9006



Trapezoidal sheet T154

Trapezoidal sheet T154 has a wave height of 154 millimetres and with its large tread surface it is commonly used for industrial facilities. Due to its high wave height, it provides a high stability and capacity of the facility. It is also used as a supporting sheet in an integrated cover system. Sheets come with corresponding technical documents including guarantees.



***Available also with felt**



Available colours:

RAL 9002





Flashings & drainage systems



Flashings

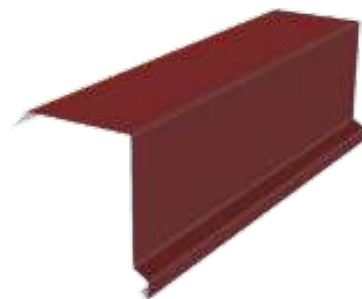
As a market leader with extensive expertise in producing various flashings for both private and business facilities, we can address any production requests. Our state-of-the-art technology and educated employees are the key factors behind our capabilities and technical solutions.

Some of our flashings:

Chimney flashing



*Side flashing x,
Barge tile*



Wall flashing



Drainage systems

25/fi 80 O33/fi100 O40/fi120

Drainage systems, together with flashings, are the necessary part of every roofing system. In our assortment we can offer every element of drainage system O25 (ø80), O33 (ø100) and O40 (ø120) as well as accompanying products such as corner groove and groove hook.

Highlighted products

Drain groove O33



Corner groove O33



Groove hook O33



Roofing tools and equipment

Roofing tools and equipment

To provide the customers with one-stop-shop experience, we offer the following roofing equipment and tools:

- Combs (pvc)
- Steel in roll
- Vapour permeable foil
- Seal nets
- Fasteners and sealants
- Silicone putty
- Snow guards
- Correction spray
- Retaining screws of various lengths and types
- Rivets



Storm washers

We are a regional leader in storm washer production – a product that is necessary for sandwich panels installation, but also very often used for corrugated sheets installation. Storm washer is a simple, yet very reliable, system of fastening together with retaining screws.

We make sure to deliver storm washers of the highest standard and with competitive prices.





Roof and wall panels

Roof panels

- Normal or agro (fiberglass or alu-foil)

Wall panels with visible joint

- Normal (thickness 30-80 mm) or cold store joint (thickness 100-200 mm)

Wall panels with hidden fixing joint



After 30 years of continuous production of corrugated sheets and associated products, in 2023. we introduced a new product into our assortment – roof and wall panels, or so called sandwich panels. With such large investment, we enhanced our production with state-of-the art European fully automated machine for highest quality panels production. Complete production process is carried in house with professional supervision from our engineers and by using only the highest quality raw materials.

Which are the benefits of using roof and wall panels?

- Extremely fast production and installation which results in short construction time compared to usual building methods
- High value of thermal and sound insulation with possibilities of choosing different panels thickness (non-combustible foam also possible).
- Competitive price

Specifications

TABLE OF AVAILABLE PANELS THICKNESS AND ITS NUMBER PER ONE PACK

THICKNESS (mm)	ROOF PANEL (code IRP)	WALL PANEL VISIBLE JOINT (code IWP)	WALL PANEL HIDDEN FIXING JOINT (code IFP)
30	20 panels per bundle	33 panels per bundle	/
40	16 panels per bundle	25 panels per bundle	25 panels per bundle
50	14 panels per bundle	20 panels per bundle	/
60	/	16 panels per bundle	16 panels per bundle
80	10 panels per bundle	12 panels per bundle	13 panels per bundle
100	8 panels per bundle	10 panels per bundle	10 panels per bundle
120	6 panels per bundle	8 panels per bundle	8 panels per bundle
140	6 panels per bundle	/	/
150	/	6 panels per bundle	6 panels per bundle
200	/	4 panels per bundle	/

Panels length:

2000 mm – 15000 mm

Panels insulation types:

- **PUR** (normal polyurethane foam, internal code PU)
- **PIR** (non-combustible polyurethane foam, internal code IF)

Steel thickness:

- Inside steel sheet (visible from the inner side of the facility)

0,3 mm / 0,4 mm / 0,5 mm

- Outside steel sheet (visible from the outer side of the facility)

0,3 mm / 0,4 mm / 0,5 mm / 0,6 mm



Specifications

Available colours:



RAL 3009



RAL 5010



RAL 6028



RAL 7016



RAL 8019



RAL 9002



RAL 9005



RAL 9006



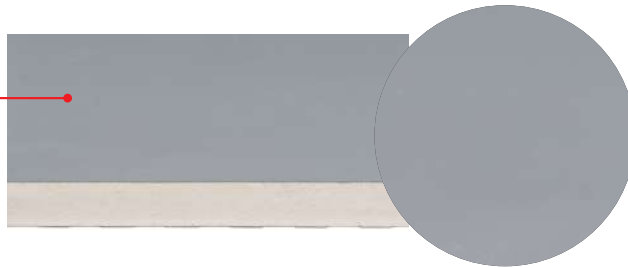
RAL 9007

Profile (pattern) types:

Box pattern



Flat pattern



Micro pattern



Roof panels

(internal code IRP)

■ Roof panel types:

- **Normal** (steel sheets from both sides of the panel)
- **Agro** (fiberglass or alu-foil from bottom side of the panel)

Roof panels (normal) – inner side



Roof panels (normal) – outer side



AVAILABLE PANEL THICKNESS (mm)

30

40

50

80

100

120

140



TECHNICAL INFORMATION

OVERLOAD SPANS		ROOF PANEL THICKNESS (mm)						
Sheet thickness	Uniformly distributed load (kg /m ²)	30	40	50	80	100	120	140
		Max spans cm						
0,4 / 0,4	80	270	290	310	390	440	470	490
	100	250	260	280	350	390	440	470
	120	230	245	260	320	360	400	450
	140	210	230	255	290	330	370	410
	160	200	220	230	285	310	340	380
	180	185	215	220	270	290	320	360
	200	160	200	210	260	270	300	330
	220	140	190	200	230	260	280	310
	250	115	170	190	220	240	260	290

OVERLOAD SPANS		ROOF PANEL THICKNESS (mm)						
Sheet thickness	Uniformly distributed load (kg /m ²)	30	40	50	80	100	120	140
		Max spans cm						
0,5 / 0,5	80	320	350	390	500	570	630	710
	100	295	320	360	450	510	580	650
	120	270	300	330	420	480	540	600
	140	235	280	315	390	450	500	560
	160	210	260	300	370	420	480	530
	180	185	235	280	355	400	450	500
	200	170	210	250	330	380	430	480
	220	150	190	230	320	360	410	450
	250	130	170	205	300	340	385	425

THERMAL INSULATION (U)	ROOF PANEL THICKNESS (mm)						
	30	40	50	80	100	120	140
W/m ² K	0,71	0,54	0,44	0,28	0,22	0,19	0,17

PANELS WEIGHT (kg/m ²)	ROOF PANEL THICKNESS (mm)						
	30	40	50	80	100	120	140
0,5/0,5	9,9	10,3	10,7	11,9	12,7	13,5	14,3
0,6/0,6	11,7	12,1	12,5	13,7	14,5	15,3	16,1





Wall panels with visible joint

(internal code IWP)

■ Wall panels visible joint types:

- **Normal** (thickness 30-80 mm)
- **Cold store joint** (thickness 100-200 mm)

Wall panel visible joint



Joint of wall panels with visible joint



AVAILABLE PANEL THICKNESS (mm)

30

40

50

60

80

100

120

150

200



TECHNICAL INFORMATION

OVERLOAD SPANS		WALL PANEL THICKNESS (mm)							
Sheet thickness	Uniformly distributed load (kg /m ²)	30	40	50	60	80	100	120	150
		Max spans cm							
0,5 / 0,5	50	260	320	380	440	550	640	730	820
	60	240	300	350	410	500	590	680	760
	80	205	260	310	350	440	520	600	675
	100	180	230	275	320	395	470	540	605
	120	165	210	250	290	360	430	490	545
	140	150	190	230	265	330	395	455	510
	160	135	175	210	245	310	370	425	475
	180	125	165	195	230	290	345	400	450
	200	115	155	185	215	270	325	375	420

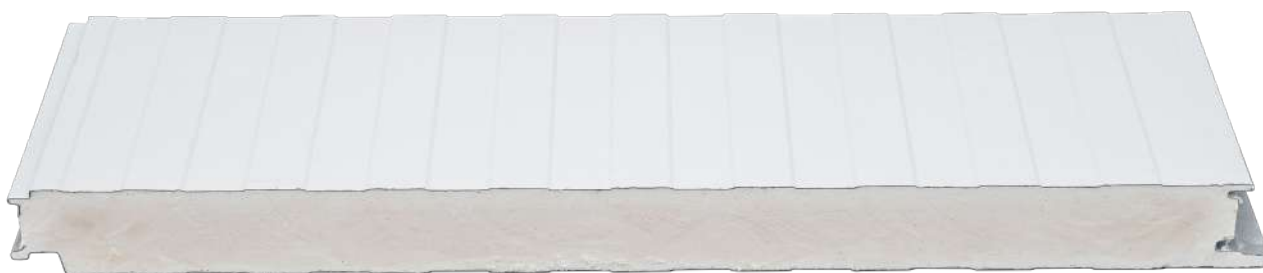
THERMAL INSULATION (U)	WALL PANEL THICKNESS (mm)							
	30	40	50	60	80	100	120	150
W/m ² K	0,7	0,64	0,41	0,61	0,29	0,23	0,19	0,15

PANELS WEIGHT (kg/m ²)	WALL PANEL THICKNESS (mm)							
	30	40	50	60	80	100	120	150
0,5/0,5	9,4	9,8	10,2	10,6	11,4	12,2	13,0	14,3
0,6/0,6	11,1	11,5	11,9	12,3	13,1	13,9	14,7	16,0

Wall panels with hidden fixing joint

(internal code IFP)

Wall panels with hidden fixing joint



Joint of wall panels with hidden fixing joint



AVAILABLE PANEL THICKNESS (mm)

40

50

80

100

120

150



TECHNICAL INFORMATION

OVERLOAD SPANS		WALL PANEL THICKNESS (mm)					
Sheet thickness	Uniformly distributed load (kg /m ²)	40	60	80	100	120	150
		Max spans cm					
0,5 / 0,5	50	320	440	550	640	730	820
	60	300	410	500	590	680	760
	80	260	350	440	520	600	675
	100	230	320	395	470	540	605
	120	210	290	360	430	490	545
	140	190	265	330	395	455	510
	160	175	245	310	370	425	475
	180	165	230	290	345	400	450
	200	155	215	270	325	375	420

THERMAL INSULATION (U)	WALL PANEL THICKNESS (mm)					
	40	60	80	100	120	150
W/m ² K	0,64	0,41	0,29	0,23	0,19	0,15

PANELS WEIGHT (kg/m ²)	WALL PANEL THICKNESS (mm)					
	40	60	80	100	120	150
0,5/0,5	9,8	10,6	11,4	12,2	13,0	14,3
0,6/0,6	11,5	12,3	13,1	13,9	14,7	16,0



NORDIC

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