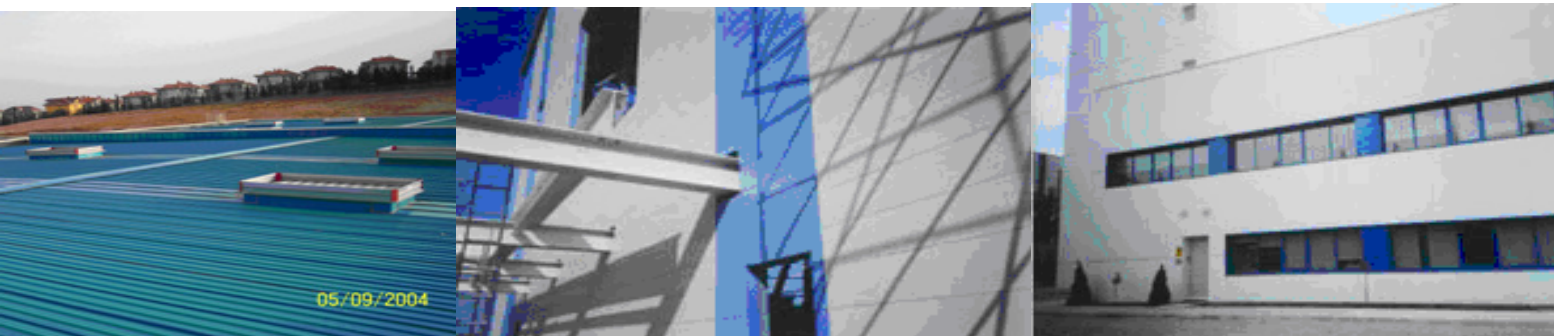




DELTA

Boyali Sac Yapi Elemanlari Imalat Sanayii ve Ticaret Limited Sirketi



DELTA SYSTEMS

The company , products and the service

DELTA CO. was established and began production of roof and wall cladding materials in 1991. The name DELTA has been synonymous with innovative , distinctive, functional roof and wall claddings since 1991. DELTA CO. products for high-quality metal roofs and walls can be prefabricated from a variety of metals. Designed and manufactured by DELTA CO, Seamline System is suitable for use on new or refurbishment projects. Based on a well proven design , roofing panels comprise special edge forms suitable for standing seaming. Seaming is made either by using hand seamer or power seamer (Robot). DELTA CO. manufactures a special panel which can be connected to each other at adjacent sides by welding. The panels are welded to each other by a special welding robot which combines the panels to each other forming a water proof membrane. This welded Seamline System can be manufactured from prepainted or unpainted stainless steel and aluminium. By this system we can cover the roofs up to 0° roof pitch. DELTA CO. manufactures secret fixed plug-in external wall cladding panels , which provide today's building industry with the means to create external walls which combine impressive durability with considerable architectural appeal at an economic cost. Plug-in panels in 150 mm to 600 mm modules are formed on a

roll-forming machine. Both single and combined panels can be mounted directly on to structure and by inserting mineral fibre insulation in to the wall behind the exterior façade , thermal benefits will be obtained. DELTA CO. manufactures load bearing Lining Trays (Cassette) by using special designed mobile automatic machine for producing the material at site up to 18 mt long. The Cassette Panels are manufactured from prepainted galvanized steel . These cassette panels can be fixed either on the purlins or directly on the main structure of the roof without using any additional purlin forming a load bearing deck. Another advantage of using this cassette panel is to have a decorative visual effect under the roof with either a ribbed or flat surface like a ceiling. DELTA CO. uses prepainted galvanised steel , aluminized steel, stainless steel and aluminium, also mill finish, stucco embossed aluminium, copper, stainless steel and titanium zinc for the production of roof and wall cladding panels. Coils are painted by special continuous painting lines. DELTA CO. provides systems and materials for special needs of projects like , heat , fire , sound and noise absorption. Details are solved and produced for special purposes by DELTA CO. 's engineering stuff.



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Schenne GmbH

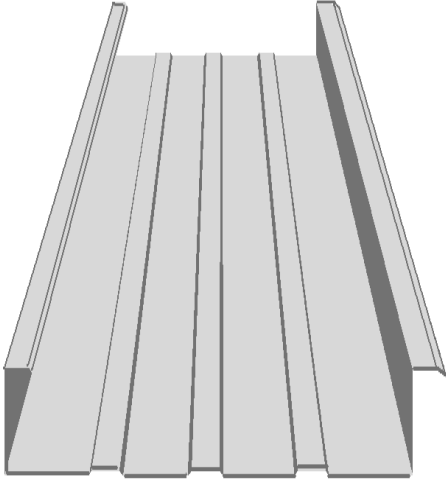
YTKP (CASSETTE)

Load bearing lining trays are widely using as wall and roof load bearing linings. With thermal insulation insert and trapezoidal, secret fixed panel outer skin profile, DELTA load bearing lining trays (Cassette) are well-proven for ventilated facades. Especially thermal insulation insert and standing seam type skin profile, DELTA load bearing lining trays (cassette) are well-designed for roofing. Architects can use this panel to provide a good visual affect under the roof without

using any ceiling or inside the building as inner wall cladding.

Also by perforating the surface of the panel, sound insulation is achieved by rockwool or glasswool inserting in the panel. This method is the most efficient way for the sound insulation of gas or steam turbine powered electric or other similar power plants. The panel has good strength, fire resistance and long-term fatigue resistance properties and it can thus be recommended for use in all circumstances

YTKP (CASSETTE)



DELTA YTKP/H-D load bearing lining trays are manufactured from prepainted galvanized steel.

Load bearing lining trays are manufactured on site by our mobile roll-forming machines.

The lining trays are manufactured on site up to 18.00 mt. to fit the project requirements.

Load bearing lining trays can be manufactured in different thickness (t) , rib height (h) and width(b) measurements due to load bearing capacities and architectural needs. (See the tables).

DELTA YTKP/H-D load bearing lining trays can be fixed on directly steel or concrete columns ,beams to form the main load bearing wall and roof structure of the construction so additional purlins and steel works are not needed.

Load bearing lining trays have a decorative visual affect under the roof with either a ribbed or flat surface like a ceiling.

Form	Panel Width(b) (mm)	Panel Height (h) (mm)	Thickness(t) (mm)	Weight (kg/m ²)
60 /325	325	60	0.75 – 1.25m	8.89 – 15.23
80 /600	600	80	0.90 – 1.25m	10.27 –1370
100 /330	330	100	0.75 – 1.25m	10.80 –18.00
100 /600	600	100	0.90 – 1.25m	10.70 –14.86
120 /500	500	120	0.90 – 1.25m	11.90 –16.50
120 /600	600	120	0.90 – 1.25m	11.15 –15.48
145 /600	600	145	0.90 – 1.25m	11.90 –16.52
160 /600	600	160	0.90 – 1.25m	12.35 –17.15



Kayseri sugar factory



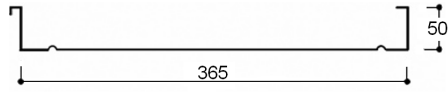
Novartis

STANDING SEAM SHEETS

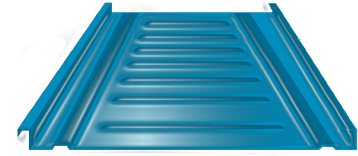
Because of their light-weight structure standing seam roofing sheets can be manufactured in various format widths and lengths over than 100mt at site by portable roll-forming machines. This advantage means short installation times, continuous flat or complex roof and facade structures. By using a wide range of high quality materials, architects and designers can create different kinds of roofs and facades as well as imaginative roofscapes. Sections and attachments are available not only in aluminium but also steel, stainless steel, titanium zinc and Cu. All RAL colors are available in high quality Polyester, PVDF coat quality for use on

color coated surfaces for architectural needs. Whether it is used in renovation or new construction, traditional or avant-garde designs, standing seam panels are an elegant partner for many building envelope materials in tapered, curved, tapered curved and other shapes, blending with wood, glass, stone and other materials in complete harmony. Based on a well proven design, roofing panels comprise special edge forms suitable for standing seaming. A special designed panel is suitable for welding the adjacent sides in forming an exact watertight membrane on the surface of the roof. This panel surface can be mill finish or paint coated also.

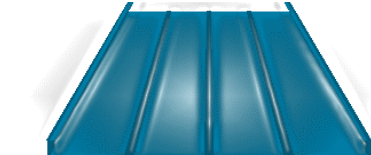
KSD 50/365



	Material Data	Material width (mm)	Thickness(mm) (mm)	Weight (Kg/m2)
Aluminium	EN 3003,3005	365	0.70 - 1.00	2.58 - 3.70
		465	0.70 - 1.00	2.44 - 3.48
Steel	DIN 17162	365	0.50 - 0.60	5.65 - 6.78
		465	0.50 - 0.60	5.32 - 6.38
Stainless Steel	SUS 304	365	0.40 - 0.50	4.40 - 5.49
		465	0.40 - 0.50	4.05 - 5.06
Copper	SE CU F 24	365	0.50 - 0.60	6.14 - 7.34
		465	0.50 - 0.60	5.76 - 6.94
Titanium zinc	EN 50 1201	365	0.50 - 0.80	4.90 - 7.81
		465	0.50 - 0.80	4.63 - 7.41

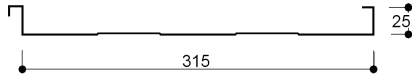


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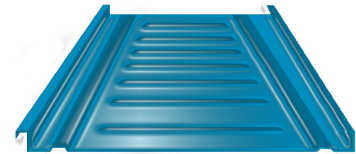


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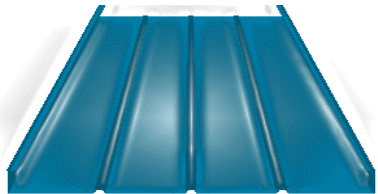
KSD 25/315



	Material Data	Material width (mm)	Thickness(mm) (mm)	Weight (Kg/m2)
Aluminium	EN 3003,3005	315	0.70 - 1.00	2.42 - 3.45
		415	0.70 - 1.00	2.29 - 3.27
Steel	DIN 17162	315	0.50 - 0.60	5.24 - 6.29
		415	0.50 - 0.60	4.97 - 5.96
Stainless Steel	SUS 304	315	0.40 - 0.50	3.99 - 4.78
		415	0.40 - 0.50	3.78 - 4.34
Copper	SE CU F 24	315	0.50 - 0.60	5.71 - 6.85
		415	0.50 - 0.60	5.42 - 6.50
Titanium zinc	EN 50 1201	315	0.50 - 0.80	4.60 - 7.36
		415	0.50 - 0.80	4.36 - 6.98

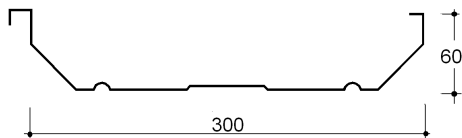


TYPE-1



TYPE-2

TCP 60/300



	Material Data	Material width (mm)	Thickness(mm) (mm)	Weight (Kg/m2)
Aluminium	EN 3003,3005	300	0.70 - 1.00	2.54 - 3.64
		400	0.70 - 1.00	2.38 - 3.40
Steel	DIN 17162	300	0.50 - 0.60	5.50 - 6.60
		400	0.50 - 0.60	5.16 - 6.18
Stainless Steel	SUS 304	300	0.40 - 0.50	4.19 - 5.23
		400	0.40 - 0.50	3.93 - 4.90



DELTA



DMS Gebze

STANDING SEAM SHEETS

Standing seam roofing profiles are manufactured from stucco embossed aluminium, prepainted aluminium, galvanized steel, aluminized steel, VM zinc and stainless steel. The roofing profiles are produced on site by means of our mobile roll-forming machines. It is possible to manufacture all the panels on site without any length limitation to fit the project requirements. The panels having minimum 50 mm high ribs at seamed edges give us the opportunity to avoid leakage for low pitch up to %1.5 roofing. All the standing seam roofing panels comprising special edge forms to be seamed at the adjacent sides by the

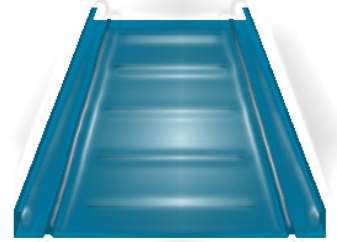
the power seamer is to be fixed on the roof deck or purlins by means of concealed sliding supports and self drilling screws. The roofing panels can be manufactured in different widths according to architectural needs. The panels having 60 mm and 160mm high ribs have a high load bearing capacity so can be used as a single covering layer for roofing. See the related tables. A special designed panel which can be welded at adjacent sides and then by capping the welded edges can be used for %0 roof pitch roofing. This special panel can also be manufactured from prepainted metal having a nice view.

KKP 40/450

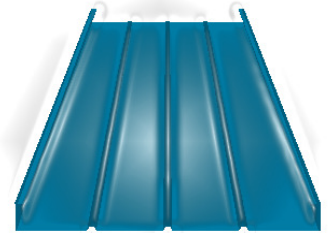


	Thickness(mm)	Material	Data	Material width(mm)	Weight(Kg/m2)
Aluminium	EN 3003,3005	350		0.70 - 1.00	2.71 – 3.88
		450		0.70 - 1.00	2.54 – 3.63
Steel	DIN 17162	350		0.50 - 0.60	5.89 - 7.07
		450		0.50 - 0.60	5.50 – 6.60
Stainless Steel	SUS 304	350		0.40 - 0.50	4.48 – 5.61
		450		0.40 - 0.50	4.19 – 5.23
Copper	SE CU F 24	350		0.50 - 0.60	6.40 – 7.68
		450		0.50 - 0.60	5.97 – 7.17
Titanium zinc	EN 50 1201	350		0.50 - 0.80	5.13 – 8.20
		450		0.50 - 0.60	4.79 – 7.65

40/350-450 is a unique panel which can be connected to each other at adjacent sides by welding. A special robot welds the panels to each other to form a continuous waterproof roofing layer. Also the panel can be manufactured from prepainted metals and be welded without giving harm to the paint. After welding the welded side head tops are covered with a continuous cap which is attached to the panels by robot seaming.

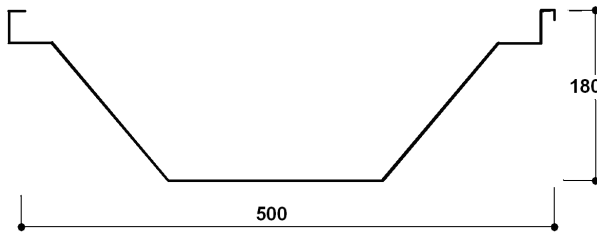


TYPE-1



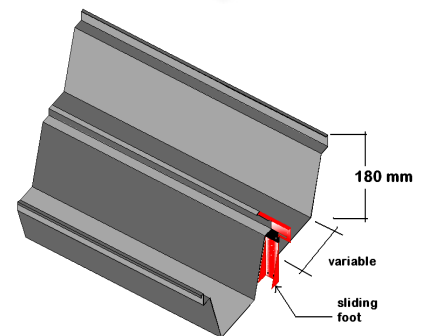
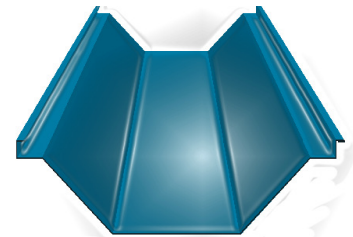
TYPE-2

TKCP 160/500



	Thickness(mm)	Material	Data	Material width(mm)	Weight(Kg/m2)
Aluminium	EN 3003,3005	500		0.70 - 1.00	2.86 – 4.10
		300		0.70 - 1.00	3.81 – 5.44
Steel	DIN 17162	500		0.50 - 0.80	7.45 - 9.90
		300		0.50 - 0.80	9.90 – 13.20

TKCP 160/500 panel is another panel which has a high load bearing capacity. It can be used as a single lining roof layer up to 4.0mt purlin spans. It is attached to the purlins or on the roof deck by using sliding foot.



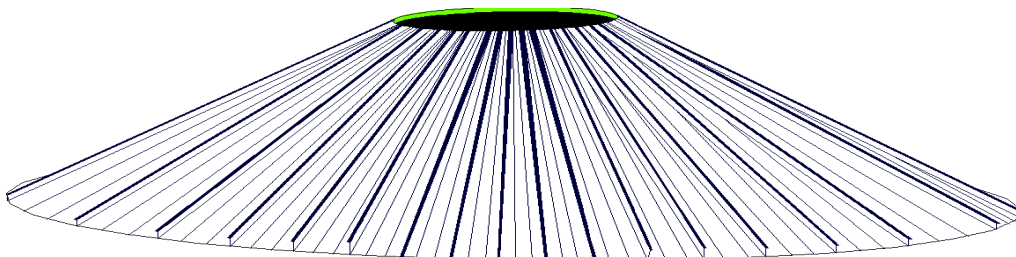


Ekaterinburg

TAPERED AND CURVED SHEETS

Architects today demands special sheeting for their architectural dreams. Domed, semi sphered and spherichal shaped roofs are easily constructed with curved, tapered, curved tapered sections. DELTA profiles are available pre-curved to suit the required radii and tapered form. However, with large radii (over 20 metres to 40 metres depending on the panel shape), the

profiles can, depend on guage of material "self curve" i.e., follow required radius due to settlement under their own self weight. For smaller radii, panels are pre curved by using curving machines. This manufacturing method prevents the surface of the panels from distortion and achives to fit the necessary radii.



DELTA

SYSTEMS

TABLE FOR CURVED PANELS

Form	Material	Material Thickness (mm)	Min. bending radii (mm)
KSD 25/315	Aluminium	0.50 – 0.80	600
KSD 50/465	Aluminium	0.50 – 0.80	1000
KKP 40/450	-	-	-
KSD 25/315	Steel	0.50 – 0.65	800
KSD 50/465	Steel	0.50 – 0.65	1200
KKP 40/450	-	-	--
KSD 25/315	Stainless steel	0.40 – 0.50	600
KSD 50/465	Stainless steel	0.40 – 0.50	1200
KKP 40/450	-	-	-
KSD 25/315	Copper	0.50 – 0.65	600
KSD 50/465	Copper	0.50 – 0.65	1000
KKP 40/450	-	-	-
KSD 25/315	Titanium zinc	0.50 – 0.70	600
KSD 50/465	Titanium zinc	0.50 – 0.70	1000
KKP 40/450	-	-	-

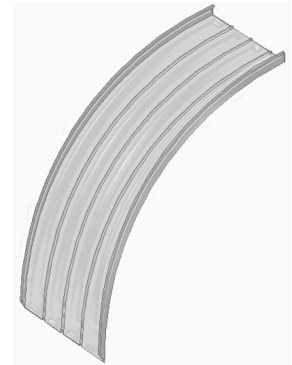


TAPERED PANEL



TAPERED CURVED PANEL

Panels can be manufactured curved, tapered and tapered curved for architectural needs.



CURVED PANEL





DSM Gebze

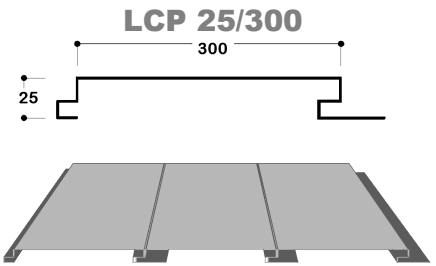
ROOF - WALL CLADDING SHEETS

DELTA offers solutions for renovating and new constructions of facades. With different forms of the panels and a choice of the dimensions of the panels, a vertical or horizontal direction is given to the façade. The manufacturing technique of DELTA also allows tailor-made shapes and dimensions for some of the forms. DELTA design profile sheets and complementary flashings introduce an international flair to the steel claddings. They offer minimalism and diversity of shapes to both large and

small surfaces. Our profiled sheets offer the possibility of simplified, tranquil and clear facade architecture. Colours, shapes and different materials as well as vertical, horizontal and diagonal installation provide the designer with a variety of options. In addition to facades, profiled sheets are used as roofing and load-bearing roof materials. Conventional profiled sheets also offer new possibilities to the designer in a variety of different building.

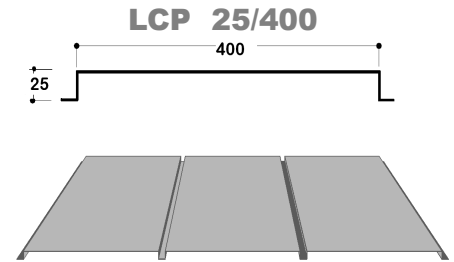
WALL CLADDING-CEILING

	Material Data	Material Width(mm)	Thickness(mm)	Weight(Kg/m2)
Aluminium	EN 3003,3005	300	0.80 – 1.20	2.90 – 4.35
		400	0.80 - 1.20	2.72 – 4.08
Steel	DIN 17162	300	0.80 - 1.00	8.75–10.95
		400	0.80 –1.00	8.20–10.25
Titanium zinc	EN 50 1201	300	0.80 -1.20	7.68–11.52
		400	0.80 - 1.20	7.20–10.80



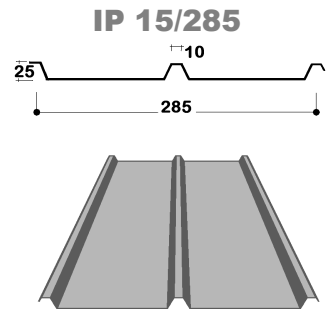
WALL CLADDING -CEILING

	Material Data	Material Width(mm)	Thickness(mm)	Weight(Kg/m2)
Aluminium	EN 3003,3005	300	0.80 – 1.20	2.90 – 4.35
		400	0.80 - 1.20	2.72 – 4.08
Steel	DIN 17162	300	0.70 - 1.00	7.70 –11.00
		400	0.70 –1.00	7.22 –10.31
Titanium zinc	EN 50 1201	300	0.70 -1.00	6.72 – 9.60
		400	0.70 - 1.00	6.30 – 9.00



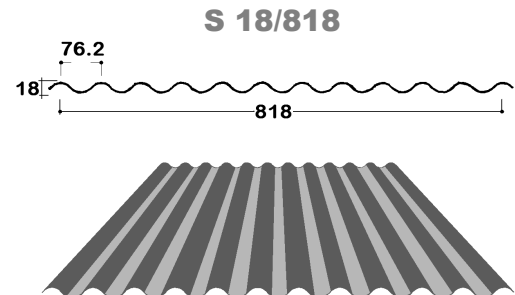
WALL CLADDING-CEILING

	Material Data	Material Width(mm)	Thickness(mm)	Weight(Kg/m2)
Aluminium	EN 3003,3005	285	0.50 – 0.70	1.59 – 2.22
Steel	DIN 17162	285	0.50 – 0.70	4.82 – 6.75
Titanium zinc	EN 50 1201	285	0.50 - 0.70	4.20 – 5.89



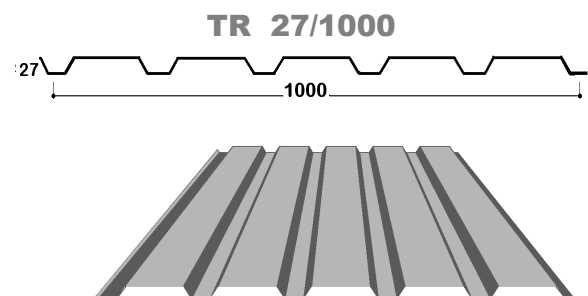
WALL CLADDING

	Material Data	Material Width(mm)	Thickness(mm)	Weight(Kg/m2)
Aluminium	EN 3003,3005	1000	0.50 – 1.20	1.66 – 3.32
Steel	DIN 17162	1000	0.50 - 1.00	6.05 –12.10



WALL- ROOF CLADDING

	Material Data	Material Width(mm)	Thickness(mm)	Weight(Kg/m2)
Aluminium	EN 3003,3005	1000	0.50 – 1.20	2.58 – 3.70
Steel	DIN 17162	1000	0.50 - 1.00	4.95 – 9.90





BAT British American Tobacco

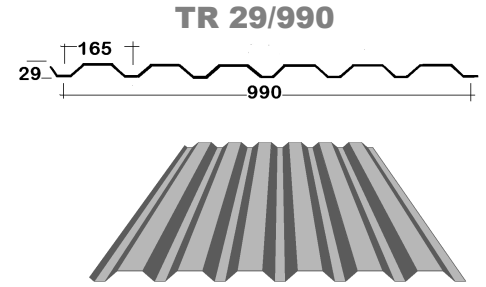
ROOF - WALL CLADDING SHEETS

The trapez and corrugated sheets and their related variants as modern building elements establish themselves so well in industrial buildings and others. They become a fixed component of contemporary architecture. Their high stability make the trapezoidal and corrugated profiles indispensable. Painted cold-rolled steel sheets offer various choices of colors for cladding of facades. Polyester or Pvd coating is recommended for outdoor walls when good weather and UV resistance is required. In the new pearlescent colours, the colour of coating changes according to the amount of light and the angle of viewing. However, we

appreciate their clear and optical appearance over large areas, it is very popular especially for commercial roofing and panelling. The material thickness, the profile shape and the type of the materials are determined by the requirements of the relevant place of use, architectural and static needs. It is possible to manufacture all of the forms from aluminium, steel, stainless steel, copper and titanium zinc with different surface appearance like stucco embossed coated and pre-weathered or surface-treated depending on the selected material. We offer a wide range of solutions to architects, designers and clients with our products.

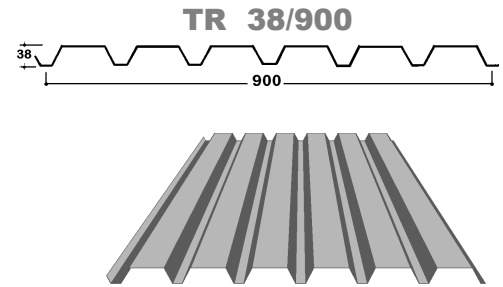
WALL-ROOF CLADDING

	Material Data	Material Width(mm)	Thickness(mm)	Weight(Kg/m2)
Aluminium Steel	EN 3003,3005	990	0.50 - 1.20	1.65 - 3.96
	DIN 17162	990	0.50 - 1.00	5.00 - 10.00



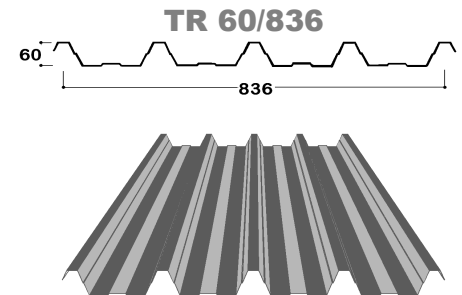
WALL- ROOF CLADDING

	Material Data	Material Width(mm)	Thickness(mm)	Weight(Kg/m2)
Aluminium Steel	EN 3003,3005	900	0.50 - 1.20	1.82 - 4.36
	DIN 17162	900	0.50 - 1.00	5.50 - 11.00



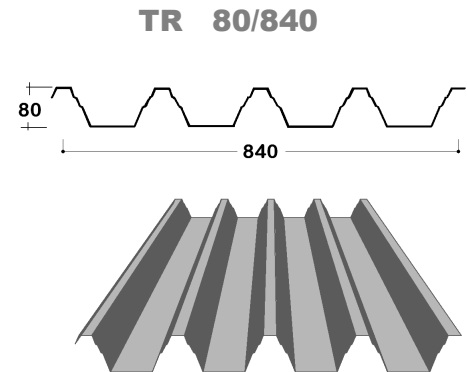
ROOF CLADDING

	Material Data	Material Width(mm)	Thickness(mm)	Weight(Kg/m2)
Aluminium Steel	EN 3003,3005	836	0.50 - 1.20	1.95 - 4.68
	DIN 17162	836	0.50 - 1.00	5.92 - 11.84



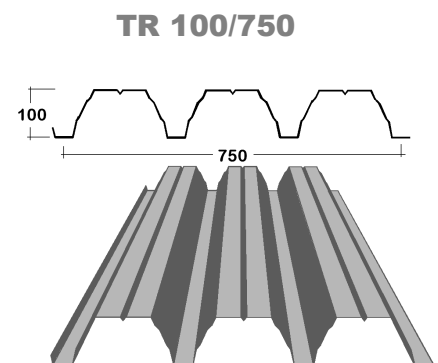
ROOF CLADDING

	Material Data	Material Width(mm.)	Thickness(mm)	Weight(Kg/m2)
Aluminium Steel	EN 3003,3005	840	0.50 - 1.20	2.08 - 4.99
	DIN 17162	840	0.50 - 0.70	6.12 - 8.56



ROOF CLADDING

	Material Data	Material Width(mm)	Thickness(mm)	Weight(Kg/m2)
Aluminium Steel	EN 3003,3005	750	1.00 - 1.50	4.35 - 6.55
	DIN 17162	750	0.80 - 1.50	10.40 - 15.60





DELTA

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