

**SSC  
CATALOG**





## ABOUT US

# about us

Expanding its volume in the sector with the investment decision taken in 2005, UMS established **the first and only Steel Service Center** in its region and provided fast, quality and solution-oriented services for the special size galvanized sheet requests demanded with its length cutting line, trapezoidal line and slitting line.

Starting its export adventure in 2010, it has managed to export to **more than 17 countries**, consisting of Europe, North Africa and Turkic Republics, especially Norway, Sweden, Denmark, France.

In 2018, the company took new steps in terms of quality and received **TS EN ISO 9001** Quality Management System Certificate, **TS EN ISO 14001** Environmental Management System Certificate, **TS OHSAS 18001** Occupational Health and Safety Management System Certificate, **ISO 14025** and **TS EN 15804** Environmental Product Declaration (EPD) for Steel Profile and Accessories.

UMS Uğur Metal Sanayi took its first step in the sector in **1999** by trading galvanized and painted galvanized sheet metal in Ankara Ostim OIZ. In a very short time, he managed to stand out in his own sector with his principled attitude and high-quality understanding.

UMS, which crowned the importance it attaches to quality by obtaining **TS EN ISO 9001** Quality Management Certificate in 2006, has become a Steel Service Center that makes a difference with its quality certificate.

Continuing its growth and development in the sector with its investments, **the company has become the fastest producer brand in Turkey** with the largest profile production capacity and producing gypsum and gypsum board profiles, exterior profiles and connection accessories with new production lines added to its body in 2013.



In 2020, UMS Reform **Suspended Ceiling Profiles** with a completely new design and surface texture with new profile lines with emboss technology were developed and added to the product portfolio.

In 2019, together with **Atılım University Material Forming and Excellence Center, UMS Power Ceiling Profiles**, which show an upper thickness performance in suspended ceiling systems compared to their counterparts, have been developed and started to be produced. The developed design has been registered by obtaining the Utility Model Certificate.

In the ASO 2 region in Temelli, 38 production centers, 8000 m2 closed and 4000 m2 open, with a total area of 12000 m2, Turkey's largest and highest production capacity profile factory has been opened.

Today, UMS, which continues its production activities /with all its speed and stability, continues to carry out its production activities with its annual **120 thousand tons of SSS production capacity, 150 million meters of profile production capacity** and modern machines, galvanized cold forming steels and galvanized non-alloy structural steels.

Since the first day he stepped into the sector, by adopting customer satisfaction, after-sales service, quality and reliability as principles, he continues to make a difference in the sector with the philosophy of always being **"one step ahead"** in innovation, technology and development, reaching the European markets he targets and taking firm steps forward.





## MESSAGE FROM THE GENERAL MANAGER

UMS's Steel Service Center, which serves for one of the most important materials of the construction sector, the flat steel sheet sector, is vital for the production of profiles and accessories, as it is among the sectors that change very rapidly with the effect of global trends.

The effect of global trends negatively affects the sales and pricing policies of the companies in the sector from time to time, resulting in price-indexed results rather than quality-indexed results in product/service presentation. These results have a negative effect by bringing an understanding that prioritizes price, not quality, under competitive conditions.

Despite these negative effects, UMS continues to keep up to date with the most modern and advanced technology machines in the production lines and continues its technological investment processes. UMS, which is aware of the importance of digitalization and high technology in the developing and transforming industrial sector, continues its systematic transformation by providing the requirements of the standards with its management approach, which is aware of its effect on productivity and meeting customer expectations.

UMS, which takes strategic steps towards the future with its R&D investments, acts with the philosophy of being one step ahead by designing innovative products, molds, and high-tech benches.

UMS is one of the rare companies in the world that owns a Steel Service Center and designs and manufactures high-tech roll-form benches.

UMS, which continues its sales and marketing activities in Turkey with its TSE certified products, also produces products in accordance with European standards and provides products/services to many countries in Asia, Africa and Europe in the field of exportation, which has become increasingly important in recent years.

While UMS continuously strengthens its competitiveness with planned investment strategies, it adopts a managerial approach that provides a healthy working environment to its personnel, creates a qualified personnel network by training its personnel, and respects its customers and the environment.

As part of this managerial approach, I thank and respect our esteemed colleagues, families, customers, suppliers, and all stakeholders who have contributed greatly to the arrival of our company in these days and who are committed to their work with love and respect.

**Hakkı USTA**  
**General Manager**  
MSc Mechanical Manager



## VISION and MISSION

### *Our Vision;*

By providing quality, reliable and qualified service, to fulfill the requests and expectations of our customers at the highest level and to ensure the satisfaction of our customers and employees.

### *Our Mission;*

Always one step ahead and be the best. What we mean by being the best is to be a model company that has provided the satisfaction of our customers and is preferred by them, sensitive to the environment, friendly and socially responsible.

## OUR PRINCIPLES



**Team Spirit**



**Competition**



**Reputation**



**Qualification**



**Customer Satisfaction**



**Environmental Awareness**



**Training**



**Speed and Availability**



**Leadership**



**Creativity**



**Trust**



# QUALITY POLICY

It is our basic principle to accept quality as a way of life in order to provide the highest quality products and services in order to maintain our respect and existence towards our customers.

We believe that a participatory working environment, qualified and trained personnel, healthy working conditions, environmental awareness, compliance with time and changing conditions are the main elements that feed quality.

Our Quality Policy provides a framework for the establishment of our quality objectives and the review of our quality management system.

## *Basic principles in the implementation of our quality policy;*

- Knowing the mission, vision and values of UMS Uğur Metal Sanayi, assimilating and acting in accordance with them,
- Establishing production and product quality in accordance with the requirements of ISO 9001:2015 adopted as Quality Management System,
- To ensure the continuity of the Quality Management System and to make "Continuous improvement" a "UMS Working Style",
- To keep the system conditions under control and to place this awareness in all employees until the products are delivered to the customer without error and customer approval is obtained at every stage of production,
- To provide products and services that fully respond to the changing needs of customers with a customer-oriented working approach, to meet customer needs with R&D or P&D activities, when necessary,
- Our field of activity is to follow the technological developments in the domestic and foreign markets in the profile/flat product sector and the national and international norms and standards changing accordingly,
- To increase the knowledge, skills, and competencies of the employees at all levels and to carry out the necessary training activities to act with "superior quality awareness" in order to fulfill all the requirements and conditions of Quality System Management,
- To use our resources effectively and efficiently, to operate the Quality Management System in integration with the Environmental Management System (EMS) and Occupational Health and Safety Management System (OHSMS),
- To establish an appropriate working environment with an effective internal communication atmosphere in order to achieve the goals within the determined vision and undertaken mission and to continuously improve its effectiveness.

quality policy



# ENVIRONMENTAL POLICY

## *Basic principles in the implementation of Environmental Policy in UMS;*

- Knowing the mission, vision and values of UMS Uğur Metal Sanayi, assimilating and acting in accordance with them,
- In accordance with the requirements of ISO 14001: 2015, which has been adopted as an Environmental Management System, to keep the damage that may be caused to nature -air, water, soil- at the lowest level, to grant the right to life to other living creatures living in nature,
- In order to protect the environment and minimize possible damage, to apply the Environmental Management System effectively, to fulfill the system conditions and national/legal legislation requirements completely and not to allow any environmental accidents by making risk analyzes,
- To keep the wastes and emissions that may arise in all processes of production -solid, liquid, gas- at a minimum level, to use all resources, including energy, efficiently, to reuse those that are possible and to take all necessary actions for these purposes,
- To ensure the continuity of environmental protection activities with the Environmental Management System, to increase the "Environmental Awareness and Awareness" of all employees, to make "Environmental Continuous Improvement" a "UMS Lifestyle",
- To ensure that individual and/or institutional responsibilities related to the environment within the scope of the integrated system are realized and to work within these responsibilities with continuous training and development,
- To ensure the spread of 'Environmental Awareness' at national and international level by sharing our environmental approach with our customers and all stakeholders.

environmental policy



# OCCUPATIONAL HEALTH and SAFETY POLICY

While performing our services as UMS Uğur Metal Sanayi, we have determined the provision of safe working conditions in all our activities and the safe completion of operations as a priority goal. In line with this goal, all operational activities will be effectively controlled to prevent personal injury, loss of life, damage to health and property and destruction of the environment within the framework of the OHS Management System.

## Basic principles for the implementation of Occupational Health and Safety Policy in UMS;

- Knowing the mission, vision and values of UMS Uğur Metal Sanayi, assimilating and acting in accordance with them,
- Establishing working conditions in the most appropriate way with the principle of continuous improvement, monitoring these conditions continuously,
- To take the necessary measures against all the risks defined in the risk analysis, to evaluate the measures taken and to make the necessary changes,
- To establish the working conditions of the employees in accordance with the system requirements and legal legislation requirements in accordance with the requirements of ISO 45001:2018, which is adopted as the Occupational Health & Safety Management System, and to ensure the occupational health and safety of the employees continuously,
- Working with the "zero accident" goal,
- In order to ensure corporate development, to work with the principle of continuous training, with the awareness that the individual development of employees is also essential,
- Creating an emergency response plan and keeping the necessary human resources and other equipment continuously available, revising and performing planned/unplanned exercises, ensuring that all personnel participate in the exercises effectively,
- To carry out all necessary activities to increase the motivation, awareness and awareness of the employees, to provide infrastructure opportunities, to increase the awareness of the importance of the "human factor" within the integrated system,
- To ensure that employees are aware of individual and/or corporate responsibilities and work within these responsibilities with continuous training and development within the scope of OHSMS.

occupational health and safety



# CERTIFICATES



TSE EN 13964



TSE EN 14195



TSE EN 14353



EPD CERTIFICATE



TS EN ISO 9001 - 2015



TS EN ISO 14001 - 2015



TS ISO 45001 - 2018



UTILITY MODEL CERTIFICATE

certificates



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# PRODUCTION LINES

## Slitting Line



It is the production line where the roll sheets are cut transversely with a circular knife.



**Production Capacity:**  
50.000 tons/year



**Maximum Roll Weight:**  
20 tons



**Producible Min/Max Sheet Width:**  
25mm / 1550 mm



**Producible Min/Max Sheet Thickness:**  
0,25 mm / 4,00 mm



**Velocity:**  
150 m/min



# PRODUCTION LINES

## Cut To Length Line



It is the production line where the roll sheets are cut to length. The length cutting line has two straightening units for double straightening. In this way, it is produced in very narrow wave tolerance.



**Production Capacity:**  
40.000 tons/year



**Maximum Roll Weight:**  
20 tons



**Producible Min/Max Sheet Width:**  
300 mm / 1250 mm



**Producible Min/Max Sheet Thickness:**  
0,25 mm / 3,00 mm



**Producible Min/Max Sheet Size:**  
300 mm / 10000 mm



**Velocity:**  
50 m/min



# PRODUCTION LINES

## Trapezoidal and Corrugated Plate Production Line



It is the line where the roll sheets are passed through the roll form and formed in 27/200, 18/76.2, 58/915, 38/151,10/110, 10/140 section.



**Production Capacity:**  
30.000 tons/year



**Maximum Roll Weight:**  
15 tons



**Producible Min/Max Sheet Width:**  
1000 mm / 1200 mm



**Producible Min/Max Sheet Thickness:**  
0,25 mm / 1,50 mm



**Producible Min/Max Sheet Size:**  
300 mm / 12000 mm



**Velocity:**  
50 m/min





## PRODUCT STANDARDS

Galvanized flat steels are produced as a result of coating both surfaces with zinc by the hot-dip process of cold-rolled metal. Galvanized materials produced with this coating process, which is made to prevent corrosion in the material and increase the material life in areas open to the atmosphere, is an important input of the automotive, white goods and construction sectors.

Galvanized steels are passivated by chromating and/or lubricating to ensure the protection of the zinc coating formed on the surface. Galvanized steels and non-alloy structural steels suitable for cold forming are defined according to EN 10346 standard.

Cold-formed steels, which are suitable for bending, drawing and deep drawing, can be used indoors and outdoors thanks to their corrosion resistance. Unalloyed structural steels, on the other hand, can be used in all general structural applications in terms of corrosion resistance, high strength, formability, and weldability.

product standards



## Hot Dip Galvanized Steels

EN 10346	DIN 17162/1	JIS 3302	ASTM A653-97
DX 51 D+Z	St02Z	SGCC	CS
DX 52 D+Z	St03Z	SGCD1	CS
DX 53 D+Z	St04Z	SGCD2	FS
DX 54 D+Z	St05Z	SGCD3	DDS
DX 56 D+Z			
EN 10346	DIN 17162/2	JIS 3302	ASTM A653-97
S220GD+Z			SQ-Grade 230
S250GD+Z	StE 250-2Z	SGC 340	SQ-Grade 255
S280GD+Z	StE280-2Z	SGC 400	SQ-Grade 275
S320GD+Z	StE320-2Z	SGC 440	
S350GD+Z	StE350-3Z	SGC 490	SQ-Grade 340



# HOT DIP GALVANIZED STEELS

## Comparison Forming Appropriate Steels

(DIN EN 10346)

### Applications

This group of steels has a low-carbon non-alloy structure. They have been designed in accordance with bending, drawing and deep drawing processes according to their mechanical properties. High corrosion resistance and surface properties are allowed to be used in general interior/exterior parts applications in which there is a risk. The fact that its mechanical properties do not show excessive deviations allows uniform production and optimum productivity.

There are 5 product groups described according to EN 10346.

- DX51D+Z : For simple bending operations
- DX52D+Z : For towing operations
- DX53D+Z : For deep drawing operations
- DX54D+Z : For special deep drawing operations
- DX56D+Z : For extra deep draws

galvanized steels



## Technical Specifications

Mechanical properties are defined according to EN 10346.

### Mechanical Specifications

Quality	Yield Strength (MPa)	Tensile Strength (MPa)	Elongation %A80
Hot Dip Galvanized Steel	t≤3	t≤3	t≤3
DX51D+Z		270-500	min. 22
DX52D+Z	140-300	270-420	min. 26
DX53D+Z	140-260	270-380	min. 30
DX54D+Z	140-220	270-350	min. 36
DX56D+Z	120-180	270-350	min. 39

### Chemical Specifications

Quality	C Max	Si Max	Mn Max	P Max	S Max	Ti Max
DX51D+Z	0.18	0.50	1.20	0.12	0.045	0.30
DX52D+Z	0.12	0.50	0.60	0.10	0.045	0.30
DX53D+Z	0.12	0.50	0.60	0.10	0.045	0.30
DX54D+Z	0.12	0.50	0.60	0.10	0.045	0.30
DX56D+Z	0.12	0.50	0.60	0.10	0.045	0.30

### Surface Grades

There are 3 types of surface quality for steels suitable for hot-dip galvanized cold forming.

- A: Surface as covered
- B: Enhanced finish (Temper rolled)
- C: Visible surface

The surface feature is described by letter after quality.

DX51D+Z100 A: "DX51D+Z quality A group surface with 100 gr/m2 coating is specified."



## Surface Roughness

For this steel family, Ra classifies by roughness values:

As Covered	: $0,40 < Ra \leq 1,30 \mu\text{m}$
Semi bright	: $Ra \leq 0,90 \mu\text{m}$
Normal	: $0,60 < Ra \leq 1,90 \mu\text{m}$
Rough	: $Ra > 1,60 \mu\text{m}$

## Coating Amount

Coating quantities are specified in the table.

Total Thickness of Two Surfaces (g/m <sup>2</sup> )	Two Surface Min. Coating Thickness Weight (g/m <sup>2</sup> )	
	Triple Spot Test	Single Spot Test
Z100	100	85
Z140	140	120
Z200	200	170
Z225	225	195
Z275	275	235

## Surface Protection

Hot dip galvanized cold forming steels are produced by applying lubrication or passivation or both.

- Lubrication reduces the risk of corrosion.
- Chemical passivation protects the surface of galvanized steel against moisture and prevents the formation of white rust.

## Surface Smoothness

In EN 10143 standard, surface smoothness can be given in two classes as normal and special.

Tolerance Class	Nominal Width	Two Surface Min. Coating Thickness Weight (g/m <sup>2</sup> )		
		<0,70	≥0,70<1,20	≥1,20
Normal	≥600<1200	12	10	8
	≥1200<1500	15	12	10
	≥1500	19	17	15
Special	≥600<1200	5	4	3
	≥1200<1500	6	5	4
	≥1500	8	7	6

All dimension tolerances are given in mm.



## Width Tolerances

Nominal Width	Tolerances			
	Normal		Special	
	-	+	-	+
≤1200	0	+5	0	+2
>1200≥1500	0	+6	0	+2
≥1500	0	+7	0	+3

## Height Tolerances

Nominal Width	Tolerances			
	Normal		Special	
	-	+	-	+
<1200	0	6	0	3
≥2000	0	%0,30 x length	0	%0,15 x length

All dimension tolerances are given in mm.

## Dimension Tolerances

Dimension tolerances are defined in EN 10143 norm. Thickness, width and length tolerance tables are specified below.

Nominal Thickness	Normal Tolerances for Nominal Width			Special Tolerances for Nominal Width (5)		
	≤1200	>1200≥1500	≥1500	≤1200	>1200≥1500	≥1500
≥0,25≤0,40	± 0,05	± 0,06	-	± 0,03	± 0,04	-
>0,40≤0,60	± 0,06	± 0,07	± 0,08	± 0,04	± 0,05	± 0,06
>0,60≤0,80	± 0,07	± 0,08	± 0,09	± 0,05	± 0,06	± 0,06
>0,80≤1,00	± 0,08	± 0,09	± 0,10	± 0,06	± 0,07	± 0,07
>1,00≤1,20	± 0,09	± 0,10	± 0,11	± 0,07	± 0,08	± 0,08
>1,20≤1,60	± 0,11	± 0,12	± 0,12	± 0,08	± 0,09	± 0,09
>1,60≤2,00	± 0,13	± 0,14	± 0,14	± 0,09	± 0,10	± 0,10
>2,00≤2,50	± 0,15	± 0,16	± 0,16	± 0,11	± 0,12	± 0,12
>2,50≤3,00	± 0,17	± 0,18	± 0,18	± 0,12	± 0,13	± 0,13
>3,00≤4,00	± 0,22	± 0,24	± 0,26	-	-	-



# HOT DIP GALVANIZED STEELS

## Unalloyed Structure Steels

### Applications

They are defined according to minimum tensile strength values. These steel grades, which can be used for all applications of the general construction industry, are especially preferred in terms of high strength, formability, and weldability properties.

### Technical Specifications

Mechanical properties are defined according to EN 10346.

### Mechanical Specifications

Quality	Yield Strength (MPa)	Tensile Strength (MPa)	Elongation %A80
Hot Dip Galvanized Steels	t≤3	t≤3	t≤3
S220GD+Z	min. 220	min. 300	min. 20
S250GD+Z	min. 250	min. 330	min. 19
S280GD+Z	min. 280	min. 360	min. 18
S320GD+Z	min. 320	min. 390	min. 17
S350GD+Z	min. 350	min. 420	min. 16



### Chemical Specifications

Quality	C Max	Si Max	Mn Max	P Max	S Max	Ti Max
S220GD+Z	0.20	0.60	1.70	0.10	0.045	0.30
S250GD+Z	0.20	0.60	1.70	0.10	0.045	0.30
S280GD+Z	0.20	0.60	1.70	0.10	0.045	0.30
S320GD+Z	0.20	0.60	1.70	0.10	0.045	0.30
S350GD+Z	0.20	0.60	1.70	0.10	0.045	0.30

### Surface Grades

There are two types of surface finishes for hot-dip galvanized non-alloy structural steels.

- A: Surface as covered
- B: Improved finish (Temper rolled)

The surface feature is described to the letter after the quality.  
S250GD+Z100 A: "100 g/m<sup>2</sup> coated, S250GD+Z quality A group surface is specified."

### Surface Roughness

For this steel family, Ra classifies by roughness values:

- As Covered : 0,40 < Ra ≤ 1,30 μm
- Semi bright : Ra ≤ 0,90 μm
- Normal : 0,60 < Ra ≤ 1,90 μm



## Coating Amount

Coating quantities are specified in the table.

Total Thickness of Two Surfaces (g/m <sup>2</sup> )	Two Surface Min. Coating Thickness Weight (g/m <sup>2</sup> )	
	Triple Spot Test	Single Sopt Test
Z100	100	85
Z140	140	120
Z200	200	170
Z225	225	195
Z275	275	235

## Surface protection

Hot dip galvanized cold forming steels are produced by applying lubrication or passivation or both.

- Lubrication reduces the risk of corrosion.
- Chemical passivation protects the surface of galvanized steel against moisture and prevents the formation of white rust.

## Surface Smoothness

In EN 10143 standard, surface smoothness can be given in two classes as normal and special.

Tolerance Class	Nominal Width	Two Surface Min. Coating Thickness Weight (g/m <sup>2</sup> )		
		<0,70	≥0,70<1,20	≥1,20
Normal	≥600<1200	15	13	10
	≥1200<1500	18	15	13
	≥1500	22	20	19
Özel	≥600<1200	8	6	5
	≥1200<1500	9	8	6
	≥1500	12	10	9

All dimension tolerances are given in mm.



## Dimension Tolerances

Dimension tolerances are defined in EN 10143 norm. Thickness, width and length tolerance tables are specified below.

Nominal Thickness	Normal Tolerances for Nominal Width			Special Tolerances for Nominal Width (5)		
	≤1200	>1200≥1500	≥1500	≤1200	>1200≥1500	≥1500
≥0,25≤0,40	± 0,05	± 0,06	-	± 0,03	± 0,04	-
>0,40≤0,60	± 0,06	± 0,07	± 0,08	± 0,04	± 0,05	± 0,06
>0,60≤0,80	± 0,07	± 0,08	± 0,09	± 0,05	± 0,06	± 0,06
>0,80≤1,00	± 0,08	± 0,09	± 0,10	± 0,06	± 0,07	± 0,07
>1,00≤1,20	± 0,09	± 0,10	± 0,11	± 0,07	± 0,08	± 0,08
>1,20≤1,60	± 0,11	± 0,12	± 0,12	± 0,08	± 0,09	± 0,09
>1,60≤2,00	± 0,13	± 0,14	± 0,14	± 0,09	± 0,10	± 0,10
>2,00≤2,50	± 0,15	± 0,16	± 0,16	± 0,11	± 0,12	± 0,12
>2,50≤3,00	± 0,17	± 0,18	± 0,18	± 0,12	± 0,13	± 0,13
>3,00≤4,00	± 0,22	± 0,24	± 0,26	-	-	-

## Width Tolerances

Nominal Width	Tolerances			
	Normal		Special	
	-	+	-	+
≤1200	0	+5	0	+2
>1200≥1500	0	+6	0	+2
≥1500	0	+7	0	+3

## Height Tolerances

Nominal Width	Tolerances			
	Normal		Special	
	-	+	-	+
<1200	0	6	0	3
≥2000	0	%0,30 x length	0	%0,15 x length

All dimension tolerances are given in mm.



# PRODUCTS

# products

## Hot Dip Galvanized Roll

Galvanized and painted galvanized rolls are produced in the desired amount according to customer demand.

Thickness	0.25 - 3.00 mm
Width	600 - 1530 mm
Coating Thickness	50 - 350 gr/m <sup>2</sup> (two surfaces total)
Grades	Steels Suitable for Cold Forming (DX51D+Z, DX52D+Z, DX53D+Z, DX54D+Z, DX56D+Z) Unalloyed Structural Steels (S220 GD+Z, S250 GD+Z, S280 GD+Z, S320 GD+Z, S350 GD+Z)

## Hot Dip Prepainted Galvanized Roll

Thickness	0.30 - 1.20 mm
Width Min/Max	600 - 1530 mm
Coating Thickness	50 - 350 gr/m <sup>2</sup> (two surfaces total)
Grades	Steels Suitable for Cold Forming (DX51D+Z, DX52D+Z, DX53D+Z, DX54D+Z, DX56D+Z) Unalloyed Structural Steels (S220 GD+Z, S250 GD+Z, S280 GD+Z, S320 GD+Z, S350 GD+Z)
Paint	Desired Color Selection in the RAL Catalog
Paint Type	Polyester, Pvdf, Plastisol, PVC





## PRODUCTS

# products

### Hot Dip Galvanized Slotted Roll

Wide galvanized and painted galvanized roll sheets are produced according to customer demand by slitting into narrower rolls or bandwidths.

Thickness	0.25 - 4.00 mm
Width	25 - 1550 mm
Coating Thickness	50 - 350 gr/m <sup>2</sup> (two surfaces total)
Grades	Steels Suitable for Cold Forming (DX51D+Z, DX52D+Z, DX53D+Z, DX54D+Z, DX56D+Z) Unalloyed Structural Steels (S220 GD+Z, S250 GD+Z, S280 GD+Z, S320 GD+Z, S350 GD+Z)

### Hot Dip Prepainted Galvanized Slotted Roll

Thickness	0.30 - 1.20 mm
Width Min/Max	25 - 1530 mm
Coating Thickness	50 - 350 gr/m <sup>2</sup> (two surfaces total)
Grades	Steels Suitable for Cold Forming (DX51D+Z, DX52D+Z, DX53D+Z, DX54D+Z, DX56D+Z) Unalloyed Structural Steels (S220 GD+Z, S250 GD+Z, S280 GD+Z, S320 GD+Z, S350 GD+Z)
Paint	Desired Color Selection in the RAL Catalog
Paint Type	Polyester, Pvdf, Plastisol, PVC



## PRODUCTS

### Hot Dip Galvanized Flat Plate

Galvanized and painted galvanized roll is cutting flat sheet according to customer demand. Painted galvanized sheets can be covered by surface protective film according to customer request.

<b>Thickness</b>	0.25 - 3.00 mm
<b>Width</b>	600 - 1530 mm
<b>Height</b>	100 - 9999 mm
<b>Coating Thickness</b>	50 - 350 gr/m <sup>2</sup> (two surfaces total)
<b>Grades</b>	Steels Suitable for Cold Forming (DX51D+Z, DX52D+Z, DX53D+Z, DX54D+Z, DX56D+Z) Unalloyed Structural Steels (S220 GD+Z, S250 GD+Z, S280 GD+Z, S320 GD+Z, S350 GD+Z)

### Hot Dip Prepainted Galvanized Flat Plate

<b>Thickness</b>	0.30 - 1.20 mm
<b>Width Min/Max</b>	600 - 1530 mm
<b>Height</b>	100 - 9999 mm
<b>Coating Thickness</b>	50 - 350 gr/m <sup>2</sup> (two surfaces total)
<b>Grades</b>	Steels Suitable for Cold Forming (DX51D+Z, DX52D+Z, DX53D+Z, DX54D+Z, DX56D+Z) Unalloyed Structural Steels (S220 GD+Z, S250 GD+Z, S280 GD+Z, S320 GD+Z, S350 GD+Z)
<b>Paint</b>	Desired Color Selection in the RAL Catalog
<b>Paint Type</b>	Polyester, PvdF, Plastisol, PVC

### Galvanized Flat Plate Weights

Thickness	Length					
	1000 (mm)	2000 (mm)	2400 (mm)	3000 (mm)	3500 (mm)	4000 (mm)
0.30	2.36	4.71	5.65	7.07	8.24	9.42
0.35	2.75	5.50	6.59	8.24	9.62	10.99
0.40	3.14	6.28	7.54	9.42	10.99	12.56
0.45	3.53	7.07	8.48	10.60	12.36	14.13
0.50	3.93	7.85	9.42	11.78	13.74	15.70
0.60	4.71	9.42	11.30	14.13	16.49	18.84
0.70	5.50	10.99	13.19	16.49	19.23	21.98
0.80	6.28	12.56	15.07	18.84	21.98	25.12
0.90	7.07	14.13	16.96	21.20	24.74	28.26
1.00	7.85	15.70	18.84	23.55	27.48	31.40
1.20	9.42	18.84	22.61	28.26	32.97	37.68
1.50	11.78	23.55	28.26	35.33	41.21	47.10
2.00	15.70	31.40	37.68	47.10	54.95	62.80
2.50	19.63	39.25	47.10	58.88	68.69	78.50
3.00	23.55	47.10	56.52	70.65	82.43	94.20

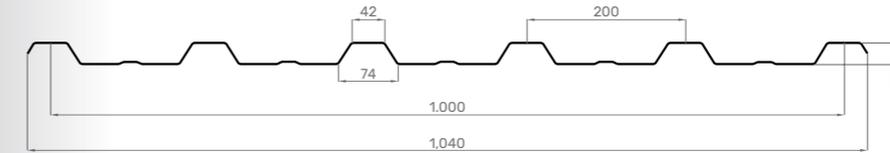
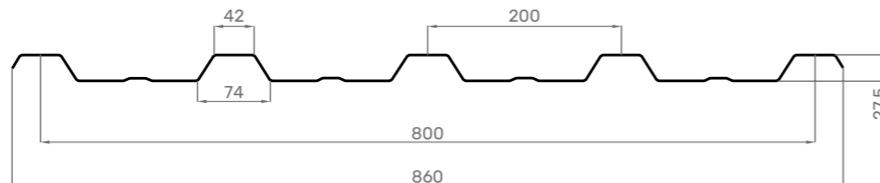
The table is based on 1000 mm. For 1200 mm widths, it is necessary to multiply the written figures by 1.2.

# PRODUCTS

## Hot Dip Galvanized / Painted Galvanized 27/200 Trapezoidal Plate

It is the forming of galvanized and painted galvanized roll sheet in 27/200 section. It is produced as 5 or 6 curves. While the net application width of the 5-rolled 27/200 trapezoid is 800 mm, the 6-rolled 27/200 trapezoid is 1000 mm. It can be applied on the roof and facade.

Thickness	0.30 - 1.20 mm
Width Min/Max	860 - 1040 mm
Height	100 - 12000 mm
Coating Thickness	50 - 350 gr/m <sup>2</sup> (two surfaces total)
Grades	Steels Suitable for Cold Forming (DX51D+Z, DX52D+Z, DX53D+Z, DX54D+Z, DX56D+Z) Unalloyed Structural Steels (S220 GD+Z, S250 GD+Z, S280 GD+Z, S320 GD+Z, S350 GD+Z)
Paint	Desired Color Selection in the RAL Catalog
Paint Type	Polyester, Pvdf, Plastisol, PVC



### Weights of 27/200 Form Trapezoidal Plates

Galvanized Sheet Thickness (mm)	0.30	0.35	0.40	0.45	0.50	0.60	0.70	0.80	0.90	1.00	1.20
1 m Height Weight (kg/m)	2.36	2.75	3.14	3.53	3.93	4.71	5.50	6.28	7.07	7.85	9.42
Usage Area Weight (kg/m <sup>2</sup> )	2.94	3.43	3.93	4.42	4.91	5.89	6.87	7.85	8.83	9.81	11.78

### 27/200 Form Spring Loadings to be Carried by Trapezoidal Plates (kg/m<sup>2</sup>)

Purlin Range (m)	0.30	0.35	0.40	0.45	0.50	0.55	0.65	0.75	0.85	0.95	1.05	1.25
1.00	355	415	473	533	593	652	770	889	1009	1127	1187	1425
1.10	294	343	391	440	490	538	637	734	833	931	981	1177
1.20	246	288	329	370	411	452	536	617	701	782	824	989
1.40	181	211	241	272	302	332	393	435	515	575	605	726
1.50	158	185	211	237	264	290	343	396	449	501	528	634
1.80	110	128	146	165	183	201	238	275	312	348	367	440
2.00	89	104	119	134	149	163	193	223	252	282	297	356
2.20	73	86	98	110	123	135	160	184	209	233	245	295
2.40	62	72	82	93	103	113	134	155	175	196	206	248
2.50	57	67	76	86	95	104	124	142	162	181	190	228
2.80	45	53	61	68	76	83	98	114	129	144	152	182
3.00	39	46	53	59	66	72	86	99	112	125	132	158

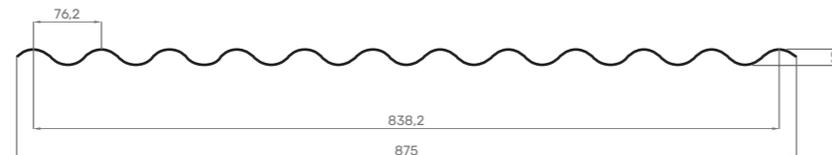
Safety Stress: 1200 kg/cm<sup>2</sup> calculations are based on continuous beam shape. No individual load comes to a single point.

# PRODUCTS

## Hot Dip Galvanized and Painted Galvanized 18/76.2 Corrugated Plate

It is the sinusoidal forming of galvanized and painted galvanized roll sheet in 18/76.2 mm section. The net application width is 838.2 mm.

Thickness	0.30 - 1.20 mm
Width Min/Max	875 mm
Height	100 - 12000 mm
Coating Thickness	50 - 350 gr/m <sup>2</sup> (two surfaces total)
Grades	Steels Suitable for Cold Forming (DX51D+Z, DX52D+Z, DX53D+Z, DX54D+Z, DX56D+Z) Unalloyed Structural Steels (S220 GD+Z, S250 GD+Z, S280 GD+Z, S320 GD+Z, S350 GD+Z)
Paint	Desired Color Selection in the RAL Catalog
Paint Type	Polyester, Pvdf, Plastisol, PVC



## 18/76.2 Weights of Corrugated Plates

Galvanized Sheet Thickness (mm)	0.30	0.35	0.40	0.45	0.50	0.60	0.70	0.80	0.90	1.00	1.20
1 m Height Weight (kg/m)	2.36	2.75	3.14	3.53	3.93	4.71	5.50	6.28	7.07	7.85	9.42
Usage Area Weight (kg/m <sup>2</sup> )	2.80	3.27	3.74	4.21	4.67	5.61	6.54	7.48	8.41	9.35	11.21

## 18/76.2 Spring Loads That Corrugated Plates Can Carry (kg/m<sup>2</sup>)

Purlin Range (m)	0.30	0.35	0.40	0.45	0.50	0.55	0.65	0.75	0.85	0.95	1.05	1.25
1.00	208	243	278	312	347	382	451	520	590	659	693	833
1.10	172	200	230	258	287	315	373	430	487	545	574	688
1.20	144	169	193	217	241	265	313	361	410	458	482	578
1.40	106	124	142	159	177	195	230	266	301	336	354	425
1.50	92	108	123	139	154	170	200	231	262	293	308	370
1.80	34	75	86	96	107	118	139	161	182	203	214	257
2.00	53	61	69	78	87	95	113	130	148	165	173	208
2.20	43	50	57	65	72	79	93	108	122	136	143	172
2.40	36	42	48	54	60	66	78	90	102	114	120	145
2.50	33	39	44	50	56	61	72	83	94	106	111	133
2.80	26	31	35	40	44	49	57	66	75	85	89	106
3.00	23	27	31	35	39	42	50	58	66	75	77	93

Safety Stress: 1200 kg/cm<sup>2</sup> calculations are based on continuous beam shape. No individual load comes to a single point.





## Loads Transportable During Concrete Pouring (Wet Concrete)

Single Span / q (kg/m <sup>2</sup> )							
t / L	1,00	1,50	2,00	2,50	3,00	3,50	4,00
0,70	2044	905	398	201	113	69	44
0,80	2332	1033	455	229	130	79	50
0,90	2621	1160	512	258	146	89	57
1,00	2908	1287	569	287	162	99	63
1,20	3481	1541	683	344	194	118	76
1,50	4336	1919	853	430	243	148	94

Two Spans / q (kg/m <sup>2</sup> )							
t / L	1,00	1,50	2,00	2,50	3,00	3,50	4,00
0,70	2044	905	506	322	221	161	120
0,80	2332	1033	578	367	253	184	137
0,90	2621	1160	649	412	284	206	155
1,00	2908	1287	720	458	315	229	172
1,20	3481	1541	862	548	377	274	206
1,50	4336	1919	1073	682	369	341	257

Three Spans / q (kg/m <sup>2</sup> )							
t / L	1,00	1,50	2,00	2,50	3,00	3,50	4,00
0,70	2556	1132	634	385	220	136	89
0,80	2917	1293	724	440	251	155	102
0,90	3278	1452	813	494	283	175	114
1,00	3638	1612	902	549	314	194	127
1,20	4354	1929	1080	659	377	233	153
1,50	5423	2402	1345	824	471	291	191



## Maximum Passable Openings During Concrete Pouring (Wet Concrete)

Single Span / L (m)						
h / t	0,70	0,80	0,90	1,00	1,20	1,50
100 mm	2,48	2,59	2,69	2,79	2,97	3,19
120 mm	2,36	2,47	2,56	2,66	2,82	3,04
140 mm	2,26	2,36	2,46	2,54	2,70	2,91
160 mm	2,16	2,27	2,36	2,45	2,60	2,80
180 mm	2,05	2,19	2,28	2,37	2,51	2,71
200 mm	1,96	2,09	2,21	2,29	2,43	2,62

Two Spans / q (kg/m <sup>2</sup> )						
h / t	0,70	0,80	0,90	1,00	1,20	1,50
100 mm	2,60	2,78	2,95	3,11	3,40	3,79
120 mm	2,43	2,59	2,75	2,90	3,17	3,53
140 mm	2,28	2,44	2,58	2,72	2,98	3,32
160 mm	2,16	2,31	2,44	2,58	2,82	3,14
180 mm	2,05	2,19	2,32	2,45	2,68	2,99
200 mm	1,96	2,09	2,22	2,34	2,56	2,85

Three Spans / q (kg/m <sup>2</sup> )						
h / t	0,70	0,80	0,90	1,00	1,20	1,50
100 mm	2,91	3,11	3,30	3,45	3,67	3,95
120 mm	2,71	2,90	3,07	3,24	3,49	3,76
140 mm	2,55	2,72	2,89	3,04	3,33	3,60
160 mm	2,41	2,58	2,73	2,88	3,15	3,46
180 mm	2,29	2,45	2,60	2,74	2,99	3,34
200 mm	2,19	2,34	2,48	2,61	2,86	3,19

Note: For the weight of the workers and other loads that may come from the installation, a moving load of 150 kg/m<sup>2</sup> was taken into account.



## Movable Loads in Composite Process (kg/m<sup>2</sup>)

Slab Thickness (mm)	t	Span / L (m)						
		1,00	1,50	2,00	2,50	3,00	3,50	4,00
100	0,70	6082	2703	1520	973	676	496	380
	0,80	6848	3044	1712	1096	761	559	428
	0,90	7584	3371	1896	1213	843	619	474
	1,00	8289	3684	2072	1326	921	677	518
	1,20	8854	3935	2213	1417	984	723	553
	1,50	8851	3934	2213	1416	983	723	553
120	0,70	8129	3613	2032	1301	903	664	508
	0,80	9194	4086	2299	1471	1022	751	575
	0,90	10229	4546	2557	1637	1137	835	639
	1,00	11233	4992	2808	1797	1248	917	702
	1,20	12151	5400	3038	1944	1350	992	759
	1,50	12148	5399	3037	1944	1350	992	759
140	0,70	10176	4523	2544	1628	1131	831	636
	0,80	11540	5129	2885	1846	1282	942	721
	0,90	12874	5722	3218	2060	1430	1051	805
	1,00	14177	6301	3544	2268	1575	1157	886
	1,20	15448	6866	3862	2472	1716	1261	965
	1,50	15445	6865	3861	2471	1716	1261	965
160	0,70	12223	5432	3056	1956	1358	998	764
	0,80	13886	6172	3472	2222	1543	1134	868
	0,90	15518	5897	3880	2483	1724	1267	970
	1,00	17120	7609	4280	2739	1902	1398	1070
	1,20	18745	8331	4686	2999	2083	1530	1172
	1,50	18742	8330	4686	2999	2082	1530	1171
180	0,70	14270	6342	3567	2283	1586	1165	892
	0,80	16232	7214	4058	2597	1804	1325	1014
	0,90	18163	8073	4541	2906	2018	1483	1135
	1,00	20064	8917	5016	3210	2229	1638	1254
	1,20	22042	9797	5511	3527	2449	1799	1378
	1,50	22040	9795	5510	3526	2449	1799	1377
200	0,70	16317	7252	4097	2611	1813	1332	1020
	0,80	18578	8257	4644	2972	2064	1517	1161
	0,90	20808	9248	5202	3329	2312	1699	1300
	1,00	23008	10225	5752	3681	2556	1878	1438
	1,20	25339	11262	6335	4054	2815	2069	1584
	1,50	25337	11261	6334	4054	2815	2068	1584



## Maximum Passable Clearance in Composite Process (m)

Slab Thickness (mm)	Concrete Volume [m <sup>2</sup> /m <sup>2</sup> ]	Moving Load / q (kg/m <sup>2</sup> )			
		t	500	750	1000
100,00	0,065	0,70	3,09	2,63	2,33
		0,80	3,27	2,78	2,46
		0,90	3,44	2,92	2,59
		1,00	3,59	3,05	2,70
		1,20	3,70	3,15	2,79
		1,50	3,69	3,14	2,78
120,00	0,085	0,70	3,45	2,96	2,64
		0,80	3,66	3,15	2,80
		0,90	3,86	3,31	2,95
		1,00	4,04	3,47	3,08
		1,20	4,19	3,60	3,20
		1,50	4,18	3,59	3,20
140,00	0,105	0,70	3,74	3,24	2,89
		0,80	3,98	3,44	3,08
		0,90	4,20	3,63	3,25
		1,00	4,40	3,80	3,40
		1,20	4,58	3,96	3,55
		1,50	4,57	3,96	3,54
160,00	0,125	0,70	3,98	3,47	3,12
		0,80	4,24	3,69	3,32
		0,90	4,47	3,90	3,50
		1,00	4,69	4,09	3,67
		1,20	4,90	4,27	3,84
		1,50	4,89	4,26	3,83
180,00	0,145	0,70	4,46	3,91	3,52
		0,80	4,71	4,13	3,72
		0,90	4,94	4,33	3,91
		1,00	5,17	4,53	4,09
		1,20	5,17	4,53	4,09
		1,50	5,16	4,53	4,08
200,00	0,165	0,70	4,36	3,85	3,48
		0,80	4,64	4,10	3,71
		0,90	4,91	4,33	3,92
		1,00	5,15	4,55	4,11
		1,20	5,40	4,76	4,31
		1,50	5,39	4,76	4,31

products

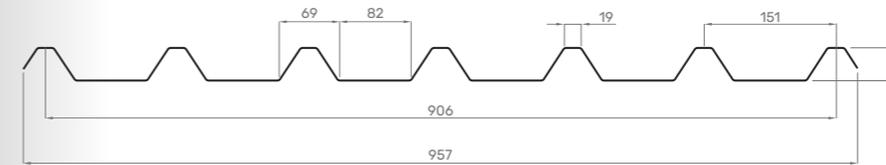
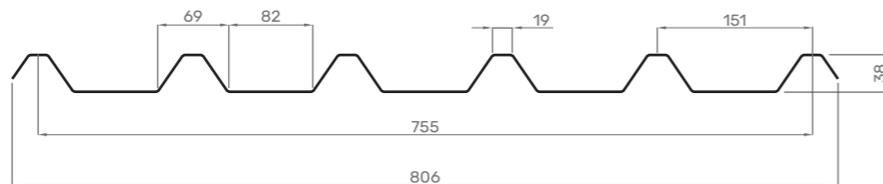


# PRODUCTS

## Hot Dip Galvanized and Painted 38/151 Trapezoidal Plate

It is the forming of galvanized and painted galvanized roll sheet in 38/151 section. It is produced as 6 or 7 bevels. While the net application width of 6 corrugated 38/151 trapezoid is 755 mm, the net application width of 7 corrugated 38/151 trapezoid is 906 mm. It can be applied on the roof and facade.

Thickness	0.50 - 0.80 mm
Width Min/Max	806 - 957 mm
Height	100 - 12000 mm
Coating Thickness	50 - 350 gr/m <sup>2</sup> (two surfaces total)
Grades	Steels Suitable for Cold Forming (DX51D+Z, DX52D+Z, DX53D+Z, DX54D+Z, DX56D+Z) Unalloyed Structural Steels (S220 GD+Z, S250 GD+Z, S280 GD+Z, S320 GD+Z, S350 GD+Z)
Paint	Desired Color Selection in the RAL Catalog
Paint Type	Polyester, PvdF, Plastisol, PVC



Sheet Thickness (mm)	Multi Span			
	200 cm	250 cm	300cm	325 cm
0,5	140	89	62	-
0,6	175	111	70	-
0,7	209	134	93	66
0,8	244	156	109	80

- Load Limits kg/m<sup>2</sup>
- Limit Values L/200

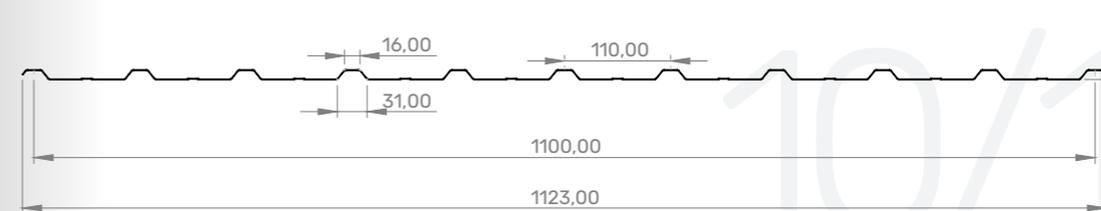
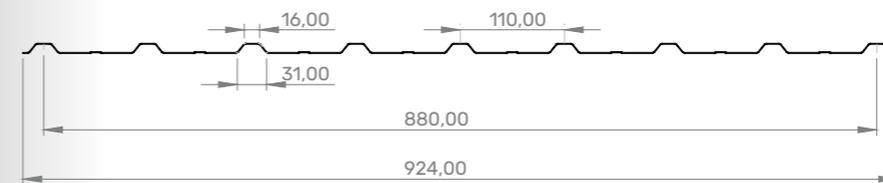


## PRODUCTS

### Hot Dip Galvanized and Painted Galvanized 10/110 Trapezoidal Plate

It is the trapezoidal forming of galvanized and painted galvanized roll sheet in 10/110 mm section.

Thickness	0.30 - 0.60 mm
Width Min/Max	924 - 1123 mm
Height	100 - 12000 mm
Coating Thickness	50 - 350 gr/m <sup>2</sup> (two surfaces total)
Grades	Steels Suitable for Cold Forming (DX51D+Z, DX52D+Z, DX53D+Z, DX54D+Z, DX56D+Z) Unalloyed Structural Steels (S220 GD+Z, S250 GD+Z, S280 GD+Z, S320 GD+Z, S350 GD+Z)
Paint	Desired Color Selection in the RAL Catalog
Paint Type	Polyester, Pvd, Plastisol, PVC



# 10/110 trapeziodal plate

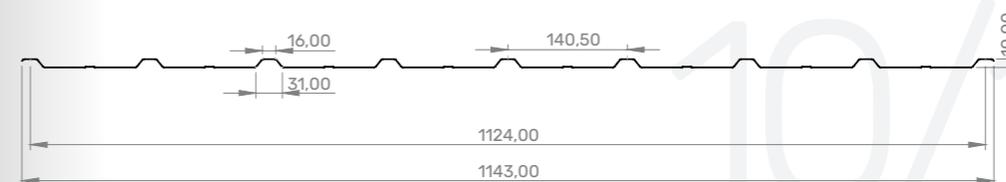
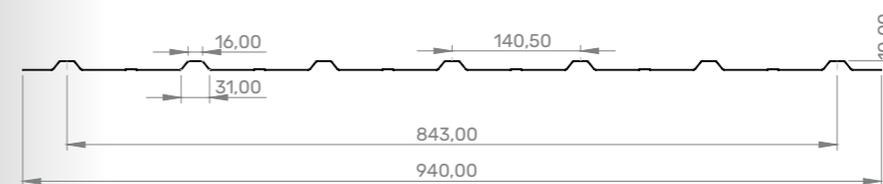


## PRODUCTS

### Hot Dip Galvanized and Painted Galvanized 10/140 Trapezoidal Plate

It is the trapezoidal forming of galvanized and painted galvanized roll sheet in 10/140 mm section.

Thickness	0.30 - 0.60 mm
Width Min/Max	940 - 1143 mm
Height	100 - 12000 mm
Coating Thickness	50 - 350 gr/m <sup>2</sup> (two surfaces total)
Grades	Steels Suitable for Cold Forming (DX51D+Z, DX52D+Z, DX53D+Z, DX54D+Z, DX56D+Z) Unalloyed Structural Steels (S220 GD+Z, S250 GD+Z, S280 GD+Z, S320 GD+Z, S350 GD+Z)
Paint	Desired Color Selection in the RAL Catalog
Paint Type	Polyester, Pvd, Plastisol, PVC



10/140  
trapeziodal  
plate



## SSC CATALOGUE



### ÇSM - Fabrika

1208. Sokak  
No: 6-8D-8E  
Ostim / ANKARA  
**T:** 0312 354 01 06  
**F:** 0312 354 01 07

### Profil - Fabrika

Alcı OSB Mah.  
2032. Cadde No: 9  
ASO2 Sincan / ANKARA  
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**F:** 0312 513 25 62

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