

TOSYALI TOYO 



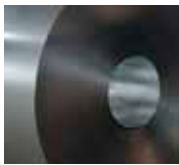
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ZINC AND ORGANIC COATED (PRE-PAINTED) PRODUCTS









Tosyalı Toyo Çelik A.Ş.

Tosyalı Holding a leading flat steel and steel pipe manufacturer of Turkish private sector and Toyo Kohan a leader company of Japan and the world in high technology steel products segment concluded a cooperation agreement in February 2012.

The foundations of Tosyalı Toyo Çelik A.Ş. which is to manufacture the first Turkish high technology flat steel with high added value, were laid in January 2015 after preparation works that took almost 3 years.

The facility in Osmaniye Organized Zone on an area of 250.000 m², has a total investment value of 650 million dollars and the productions started at the facility as of December 2016.

This investment aims to eliminate Turkey's dependence on foreign sources when it comes to high technology steel products; a significant portion of the imported products are sourced domestically after this investment and this contributes to reduce the current deficit.

The facilities have a rolling capacity of 1.0 million tons and employ approximately 800 people to manufacture tin plates, galvanized, painted, cold rolled, pickled-oiled coils, slitted coils and plates. The products to be used by a wide range of sectors from packing industry to electrical household appliances, IT products to construction sector, white goods to automotive not only meet the demand in Turkey but also in a vast geography from Europe to Caucasus, Middle East to North Africa.

About Toyo Kohan

In 1934, Toyo Kohan was established as the first tin plate manufacturer of Japan. Currently, the company has a pioneering position in Japan on business segments such as electro galvanization, nickel plating, treated surface steel, chromium plating and film coated steel and it is the world's number one company with the most advanced production technology. Toyo Kohan has investments in Japan, Malaysia and China and its turnover was 1.5 billion US Dollars in 2015. The company employs approximately 2.800 people.

Tosyalı Toyo Çelik A.Ş. Facilities in Osmaniye

Our Facilities on an area of 250.000 m² in Osmaniye Organized Industrial Zone as subsidiary of Tosyalı Holding a leading flat steel and steel pipe manufacturer of Turkish private sector and Toyo Kohan a leader company of Japan and the world in high technology steel products segment has an annual rolling capacity of 1.0 million tons.

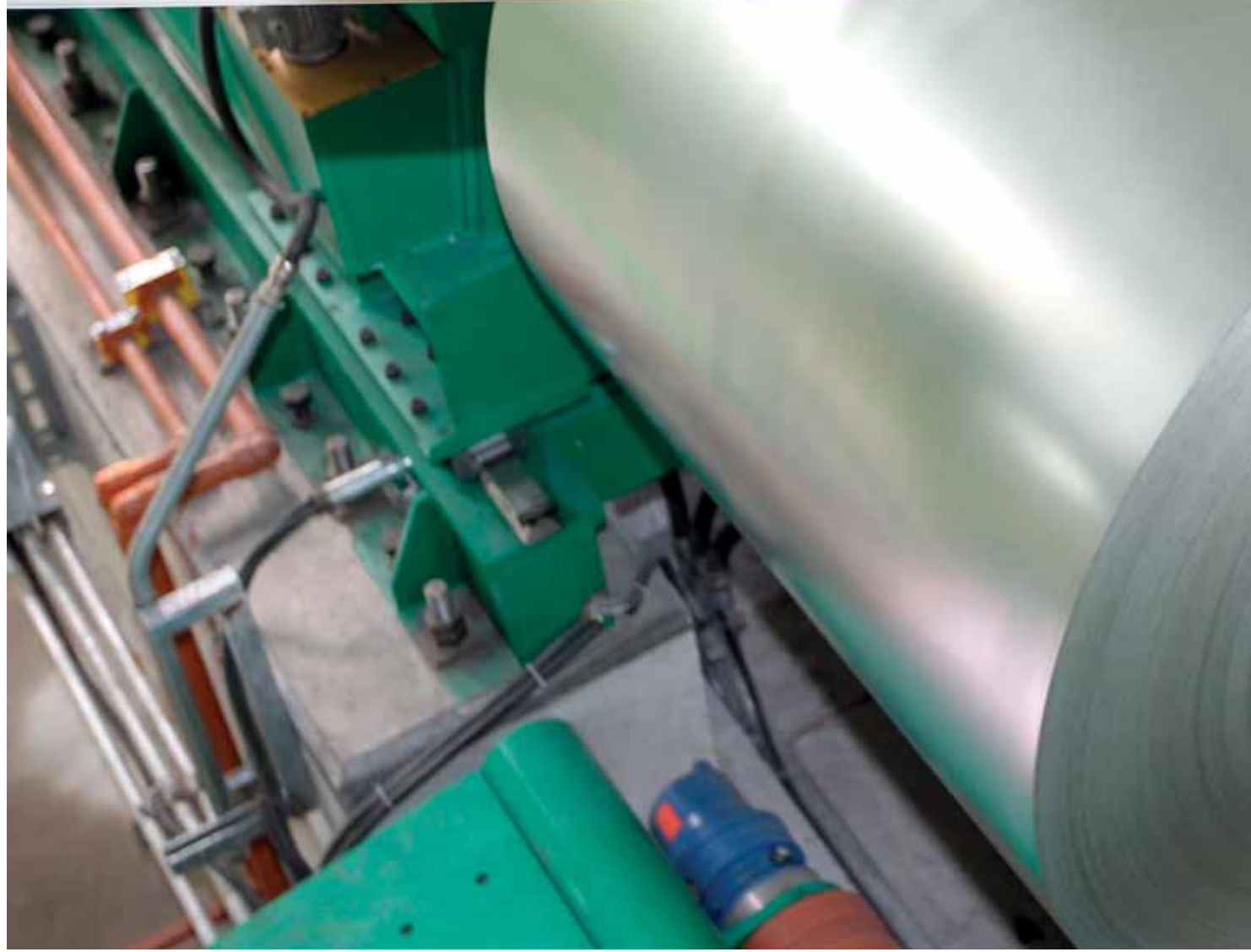
Production limits by product groups;

Thickness ranges;

Tinplate	: 0,12-0,60 mm
Hot Dip Zinc Coated	: 0,20-3,00 mm
Zinc and Organic Coated (Pre-Painted)	: 0,20-1,20 mm
Cold Rolled	: 0,20-1,20 mm
Pickled Hot-Rolled	: 1,60-4,00 mm

The maximum roll width is 1.300 mm for the abovementioned product groups.

Steel Service Center in our Osmaniye Facilities will offer cut-to-length, slitting and trapeze service depending on the product group.







Pickled Hot-Rolled Products

These products are produced by surface cleaning of hot rolled steel products with Hydrochloric Acid (HCL) on pickling line. Pickled products preferred in places of use where surface cleaning is important in terms of surface appearance and painting.

Pickled products are produced as oiled unless otherwise specified.

Production Range

Thickness Range : 1.60 – 4.00 mm

Width Range : 700 – 1300 mm

Standard : EN 10111:2008, EN 10025-2:2004, EN 10149-2:2013, EN 10338:2015

HOT ROLLED PICKLED PRODUCTS				
Product Type	Form of Product			
	Mill Edge		Trimmed Edge	
Pickled	PHRM		PHR	
Steel Type	Cold Forming Steels	Structural Steels	Cold Forming Steels	Cold Forming Steels
Hot Rolled Pickled Steels	Drawing and Deep Drawing Quality Steels	Medium and High Strength General Structural Steels	Medium and High Strength Low Alloyed Steels	High Yield Strength Dual-Phase Steels
	DD11 DD12 DD13 DD14	S235JR S275JR S355JR	S315MC S355MC S420MC	HDT580X
Thickness (mm)	Width (mm)			
	Minimum		Maximum	
1,60 - 4,00	700		1300	
Note:				
The maximum order width is 1300 mm. Widths from 1275 to 1300 mm are subject to negotiation.				
The Customer Technical Services should be contacted for technical questions not specified in the table.				



Cold-Rolled Full Hard Products

These products are produced by cold-rolling of pickled hot-rolled products.

Production Range

Thickness Range : 0.16 – 2.00 mm

Width Range : 700 – 1300 mm

Standard : EN 10130:2007, EN 1623:2009, SAE J403:2014

COLD ROLLED FULL HARD PRODUCTS								
Product Type	Form of Products							
	Coil				Cut to Length			
Fullhard	CRF				CRFC			
Steel Type	General Application Steels for Batch Annealing, Continuous Annealing and Continuous Galvanizing Process				General Structural Steels			
	Low Carbon		Ultra Low Carbon		Medium Strength		Strap Production	
Cold Rolled Fullhard Steels	FDC01 FDC03 SAE 1006 SAE 1008		FDC04		S215G SAE 1010 SAE 1012 SAE 1015 SAE 1016		TTS215G	
Thickness (mm)	Width (mm)		Width (mm)		Width (mm)		Width (mm)	
	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum
0,20 - 0,23	700	1100						
0,24 - 0,25	700	1169						
0,26 - 0,39	700	1250						
0,40 - 0,44	700	1250	700	1250	700	1000	700	1000
0,45 - 0,59	700	1270	700	1250	700	1000	700	1000
0,60 - 0,69	700	1270	700	1270	700	1100	700	1100
0,70 - 0,79	700	1270	700	1270	700	1200	700	1200
0,80 - 0,89	700	1270	700	1270	700	1270	700	1270
0,90 - 0,99	700	1270	700	1270	700	1270	700	1270
1,00 - 1,20	700	1270	700	1270	700	1270	700	1270
1,21 - 2,00	700	1270			700	1270	700	1270

Note:
 Thicknesses under 0.20 mm are subject to negotiation.
 Maximum width is 1300 mm. Orders between 1271 - 1300 mm are subject to negotiation.
 The Customer Technical Services should be contacted for technical questions not specified in the table.



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COLD ROLLED PRODUCTS

Product Type	Form of Products			
	Coil	Trimmed Edge	Cut to Length	Trimmed Edge and Cut to Length
Continuous Annealing	CCR	CCRK	CCRC	CCRKC

Steel Type	General Application Steels for Drawing			
Cold Rolled Drawing and Deep Drawing Steels	Low Carbon / Enamelling		Low Carbon	
	DC01 DC03 DC01EK DC04EK CS TB 1006		DC04	
Thickness (mm)	Width (mm)		Width (mm)	
	Minimum	Maximum	Minimum	Maximum
0,20 - 0,23	700	1100		
0,24 - 0,25	700	1169		
0,26 - 0,26	700	1250		
0,27 - 0,29	700	1250		
0,30 - 0,44	700	1250	700	1175
0,45 - 0,59	700	1270	700	1175
0,60 - 0,80	700	1270	700	1270

Note:

Thicknesses under 0.30 mm are subject to negotiation.
 Maximum width is 1300 mm. Orders between 1271 - 1300 mm are subject to negotiation.
 The Customer Technical Services should be contacted for technical questions not specified in the table.

COLD ROLLED PRODUCTS

Product Type	Form of Products	
	Slitted Coil	Slitted and Cut to Length
Batch Annealing	BCRS	BCRSC
Continuous Annealing	CCRS	CCRSC

Steel Type	General Application Steels for Drawing					
Cold Rolled Drawing and Deep Drawing Steels	Low Carbon / Enamelling			Ultra Low Carbon		
	Batch Annealing		Continuous Annealing		Continuous Annealing	
	DC01 DC03 DC04 DC01EK DC04EK CS TB 1006		DC01 DC03 DC01EK DC04EK CS TB 1006		DC04	
Thickness (mm)	Width (mm)		Width (mm)		Width (mm)	
	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum
0,25 - 0,25	23	581	23	581		
0,26 - 0,26	23	622	23	622		
0,27 - 0,29	23	622	23	622		
0,30 - 0,44	23	622	23	622	23	584
0,45 - 0,59	23	632	23	632	23	584
0,60 - 0,80	23	632	23	632	23	632
0,81 - 0,90	24	632				
0,91 - 1,00	28	632				
1,01 - 1,10	35	632				
1,11 - 1,20	39	632				

Note:

Thicknesses under 0.30 mm are subject to negotiation.
 The Customer Technical Services should be contacted for technical questions not specified in the table.







Tinplate Products

Tinplate products are produced by electrolytically tin coating of cold-rolled low carbon flat steel. Both surfaces can be coated in equal or different coating weights.

We can supply our tinplate products as continuous annealed (CA) or batch annealed (BA), single reduced (SR) or double reduced (DR).

Production Range

Thickness Range	: 0.16 – 0.60 mm (Single Reduced, continuous or batch annealed tin coated products) 0.12 – 0.30 mm (Double Reduced, continuous or batch annealed tin coated products)
Width Limits	: 700 – 1300 mm
Coating Range	: 1.1 – 11.2 g/m ²
Standard	: EN 10202:2001, ASTM A623M:2016



ELECTROLYTIC SINGLE REDUCED TINPLATE PRODUCTS

Product Type	Form of Products	
	Coil	Cut to Length
Single Reduce Batch Annealing	TNB	TNBC
Single Reduce Continuous Annealing	TNC	TNCC

Steel Type	Electrolytic Tin Coated Steels for Manufacture of Packaging and Tin Cans			
Single Reduced and Batch Annealed Tin Coated Steels	TS230, TS245, TS260, TS275, TS290, TS340, MRT-1BA, MRT-2BA, MRT-3BA, MRT-4BA			
Single Reduced and Continuous Annealed Tin Coated Steels	TH275, TH360, TH415, TH435, MRT-3CA, MRT-4CA, MRT-5CA		TH230, TH245, TH260	
Thickness (mm)	Width (mm)		Width (mm)	
	Minimum	Maximum	Minimum	Maximum
0,160 - 0,239	700	1100	700	1100
0,240 - 0,259	700	1169	700	1175
0,260 - 0,449	700	1235	700	1175
0,450 - 0,600	700	1255	700	1175

Note:

Maximum width is 1300 mm. Orders between 1256 - 1300 mm are subject to negotiation.
The Customer Technical Services should be contacted for technical questions not specified in the table.

ELECTROLYTIC SINGLE REDUCED TINPLATE PRODUCTS

Product Type	Form of Products	
	Coil	Cut to Length
Double Reduce Batch Annealing	DTNB	DTNBC
Double Reduce Continuous Annealing	DTNC	DTNCC

Steel Type	Electrolytic Tin Coated Steels for Manufacture of Packaging and Tin Cans			
Double Reduce Tin Coated	Batch Annealing		Continuous Annealing	
	TS480, TS520, TS550, MRDR-7.5BA, MRDR-8BA		TH520, TH550, TH580, TH620, TH520K, TH550K, MRDR-7.5CA, MRDR-8CA, MRDR-8.5CA, MRDR-9CA	
Thickness (mm)	Width (mm)			
	Minimum	Maximum	Minimum	Maximum
0,120 - 0,165	700	1100	700	1100
0,170 - 0,190	700	1169	700	1100
0,195 - 0,215	700	1235	700	1169
0,220 - 0,300	700	1235	700	1235

Note:

The Customer Technical Services should be contacted for technical questions not specified in the table.







Hot Dip Zinc Coated Products

These products are produced by hot-dip galvanizing of both surfaces of the cold-rolled flat steels or pickled hot-rolled flat steels.

Production at requested surface quality, with chromate (Cr+3) and / or oil coating, organic film coated is possible based on customer preference.

Production Range

Thickness Range : 0.20 – 2.00 / 3.00 mm

Width Range : 700 – 1300 mm

Coating Range : 60 – 600 gr/m²

Standard : EN 10346:2015, ASTM A653M:2015

HOT DIP ZINC COATED PRODUCTS										
Product Type	Form of Products									
	Coil		Trimmed Edge		Cut to Length			Trimmed Edge and Cut to Length		
Continuous Galvanized	GCR		GCRK		GCRC			GCRKC		
Steel Type	Zinc Coated Steels for Cold Forming									
	Low Carbon		Ultra Low Carbon		Structural / High Strength and Low Alloyed		Structural / High Strength and Low Alloyed		High Yield Strength Dual-Phase	
Zinc Coated Galvanized Steels	DX51D+Z DX52D+Z CS TYPE B		DX53D+Z DX54D+Z DX56D+Z		S220GD+Z S250GD+Z S280GD+Z S320GD+Z HX260LAD+Z HX300LAD+Z		S350GD+Z HX340LAD+Z HX380LAD+Z HX420LAD+Z		HCT590X	
Thickness (mm)	Width (mm)		Width (mm)		Width (mm)		Width (mm)		Width (mm)	
	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum
0,20 - 0,23	700	1100								
0,24 - 0,25	700	1169								
0,26 - 0,29	700	1250								
0,30 - 0,39	700	1250	700	1175	700	1200				
0,40 - 0,44	700	1250	700	1175	700	1250	700	900	700	800
0,45 - 0,50	700	1270	700	1175	700	1270	700	900	700	800
0,51 - 0,59	700	1270	700	1175	700	1270	700	900	700	900
0,60 - 0,69	700	1270	700	1270	700	1270	700	900	700	900
0,70 - 0,79	700	1270	700	1270	700	1270	700	900	700	1000
0,80 - 0,89	700	1270	700	1270	700	1270	700	1000	700	1000
0,90 - 0,99	700	1270	700	1270	700	1270	700	1100	700	1000
1,00 - 1,20	700	1270	700	1270	700	1270	700	1175	700	1100
1,21 - 2,00	700	1270			700	1270	700	1270	700	1270

Note:
 Thicknesses below 0.30 mm and thicknesses between 2.00-3.00 mm are subject to negotiation.
 Maximum width is 1300 mm. Orders between 1271 - 1300 mm are subject to negotiation.
 The Customer Technical Services should be contacted for technical questions not specified in the table.

HOT DIP ZINC COATED PRODUCTS

Product Type	Form of Products	
	Slitted Coil	Slitted and Cut to Length
Continuous Galvanized	GCRS	GCRSC

Steel Type	Zinc Coated Steels for Cold Forming									
Zinc Coated Galvanized Steels	Low Carbon		Ultra Low Carbon		Structural / High Strength and Low Alloyed		Structural / High Strength and Low Alloyed		High Yield Strength Dual-Phase	
	DX51D+Z DX52D+Z CS TYPE B		DX53D+Z DX54D+Z DX56D+Z		S220GD+Z S250GD+Z S280GD+Z S320GD+Z HX260LAD+Z HX300LAD+Z		S350GD+Z HX340LAD+Z HX380LAD+Z HX420LAD+Z		HCT590X	
Thickness (mm)	Width (mm)		Width (mm)		Width (mm)		Width (mm)		Width (mm)	
	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum
0,25 - 0,25	23	581								
0,26 - 0,29	23	622								
0,30 - 0,39	23	622	23	584	23	497				
0,40 - 0,44	23	622	23	584	23	497	24	447	25	397
0,45 - 0,49	23	632	23	584	23	497	24	447	25	397
0,50 - 0,59	23	632	23	584	23	497	25	447	26	447
0,60 - 0,69	23	632	23	632	23	547	27	447	31	447
0,70 - 0,79	23	632	23	632	23	597	28	447	32	497
0,80 - 0,89	23	632	23	632	23	632	32	497	35	497
0,90 - 0,99	24	632	24	632	24	632	35	547	39	497
1,00 - 1,09	28	632	28	632	28	632	35	584	39	547
1,10 - 1,19	35	632	35	632	35	632	39	584	39	547
1,20 - 1,20	39	632	39	632	39	632	39	584	44	547
1,21 - 1,29	39	632			39	632	39	632	44	632
1,30 - 1,39	39	632			39	632	44	632	50	632
1,40 - 1,49	39	632			39	632	47	632	54	632
1,50 - 1,59	41	632			41	632	47	632	54	632
1,60 - 1,69	41	632			41	632	47	632	54	632
1,70 - 1,79	41	632			41	632	50	632	58	632
1,80 - 1,89	44	632			44	632	54	632	64	632
1,90 - 2,00	47	632			47	632	58	632	70	632

Note:

Orders below 0.30 mm thickness are subject to negotiation.

The Customer Technical Services should be contacted for technical questions not specified in the table.

HOT DIP ZINC COATED PRODUCTS

Product Type	Form of Products	
	Trapezoid	
Continuous Galvanized	GCRT	

Steel Type	Zinc Coated Steels for Roofing and Cladding					
Zinc Coated Galvanized Steels	Low Carbon		Ultra Low Carbon		Structural	
	DX51D+Z DX52D+Z		DX53D+Z DX54D+Z		S220GD+Z S250GD+Z S280GD+Z S320GD+Z	
Thickness (mm)	Cover Width (mm)		Cover Width (mm)		Cover Width (mm)	
	5 Ribs	6 Ribs	5 Ribs	6 Ribs	5 Ribs	6 Ribs
0,20 - 0,25	800					
0,26 - 0,39	800	1000				
0,40 - 0,49	800	1000	800		800	
0,50 - 0,59	800	1000	800		800	
0,60 - 0,69	800	1000	800	1000	800	
0,70 - 0,79	800	1000	800	1000	800	
0,80 - 0,89	800	1000	800	1000	800	1000
0,90 - 0,99	800	1000	800	1000	800	1000
1,00 - 1,09	800	1000	800	1000	800	1000
1,10 - 1,20	800	1000	800	1000	800	1000

Note:

Orders below 0.30 mm thickness are subject to negotiation.

The Customer Technical Services should be contacted for technical questions not specified in the table.







Zinc and Organic Coated (Pre- Painted) Products

These products are produced by painting of galvanized flat steels on continuous lines using polyurethane rollers. Ensuring additional corrosion resistance and aesthetical concerns are the primary reasons for preferring pre-painted products.

Treatment with various paint types such as polyester, PVDF, plastisol, wrinkle polyester, polyamide modified polyurethane (PUR-PA) or special paints like antimicrobial paint is possible based on the area of use and product expectations.

Production Range

Thickness Range : 0.20 – 1.20 mm

Width Range : 700 – 1300 mm

Standard : EN 10346:2015, ASTM A653M:2015, EN 10169:2010

Pre-painted flat steel products are produced according to EN 10169:2010 standard. Galvanized steel grades which are used as base metal produced according to EN 10346:2015 standard.

ZINC and ORGANIC COATED (PRE-PAINTED) PRODUCTS						
Product Type	Form of Products					
	Coil			Cut to Length		
Continuous Galvanized and Organic Coated	PPG			PPGC		
Steel Type	Zinc and Organic Coated Steels for Cold Forming					
Zinc and Organic Coated Galvanized Steels	Low Carbon		Ultra Low Carbon		Structural	
	DX51D+Z DX52D+Z CS TYPE B		DX53D+Z DX54D+Z		S220GD+Z S250GD+Z S280GD+Z S320GD+Z	
Thickness (mm)	Width (mm)		Width (mm)		Width (mm)	
	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum
0,20 - 0,23	700	1100				
0,24 - 0,25	700	1169				
0,26 - 0,29	700	1250				
0,30 - 0,39	700	1250	700	1175	700	1200
0,40 - 0,44	700	1250	700	1175	700	1250
0,45 - 0,50	700	1270	700	1175	700	1270
0,51 - 0,59	700	1270	700	1175	700	1270
0,60 - 0,69	700	1270	700	1270	700	1270
0,70 - 0,79	700	1270	700	1270	700	1270
0,80 - 0,89	700	1270	700	1270	700	1270
0,90 - 0,99	700	1270	700	1270	700	1270
0,99 - 1,20	700	1270	700	1270	700	1270

Note:
 Orders below 0.30 mm thickness are subject to negotiation.
 Maximum width is 1300 mm. Orders between 1271 - 1300 mm are subject to negotiation.
 The Customer Technical Services should be contacted for technical questions not specified in the table.

ZINC and ORGANIC COATED (PRE-PAINTED) PRODUCTS

Product Type	Form of Products	
	Slitted Coil	Slitted and Cut to Length
Continuous Galvanized and Organic Coated	PPGS	PPGSC

Steel Type	Zinc and Organic Coated Steels for Cold Forming					
Zinc and Organic Coated Galvanized Steels	Low Carbon		Ultra Low Carbon		Structural	
	DX51D+Z DX52D+Z CS TYPE B		DX53D+Z DX54D+Z		S220GD+Z S250GD+Z S280GD+Z S320GD+Z	
Thickness (mm)	Width (mm)		Width (mm)		Width (mm)	
	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum
0,25 - 0,25	23	581				
0,26 - 0,26	23	584				
0,27 - 0,29	23	622				
0,30 - 0,39	23	622	23	584	23	497
0,40 - 0,44	23	622	23	584	23	497
0,45 - 0,49	23	632	23	584	23	497
0,50 - 0,50	23	632	23	584	23	497
0,51 - 0,59	23	632	23	584	23	497
0,60 - 0,69	23	632	23	632	23	547
0,70 - 0,79	23	632	23	632	23	597
0,80 - 0,89	23	632	23	632	23	632
0,90 - 0,99	24	632	24	632	24	632
1,00 - 1,09	28	632	28	632	28	632
1,10 - 1,19	35	632	35	632	35	632
1,20 - 1,20	39	632	39	632	39	632

Note:
Orders below 0.30 mm thickness are subject to negotiation.
The Customer Technical Services should be contacted for technical questions not specified in the table.

ZINC and ORGANIC COATED (PRE-PAINTED) PRODUCTS

Product Type	Form of Products	
	Trapezoid	
Continuous Galvanized and Organic Coated	PPGT	

Steel Type	Zinc and Organic Coated Steels for Cold Forming					
Zinc and Organic Coated Galvanized Steels	Low Carbon		Ultra Low Carbon		Structural	
	DX51D+Z DX52D+Z CS TYPE B		DX53D+Z DX54D+Z		S220GD+Z S250GD+Z S280GD+Z S320GD+Z	
Thickness (mm)	Cover Width (mm)		Cover Width (mm)		Cover Width (mm)	
	5 Ribs	6 Ribs	5 Ribs	6 Ribs	5 Ribs	6 Ribs
0,20 - 0,25	800					
0,26 - 0,39	800	1000				
0,40 - 0,49	800	1000	800		800	
0,50 - 0,59	800	1000	800		800	
0,60 - 0,69	800	1000	800	1000	800	
0,70 - 0,79	800	1000	800	1000	800	
0,80 - 0,89	800	1000	800	1000	800	1000
0,90 - 0,99	800	1000	800	1000	800	1000
1,00 - 1,09	800	1000	800	1000	800	1000
1,10 - 1,20	800	1000	800	1000	800	1000

Note:
Orders below 0.30 mm thickness are subject to negotiation.
The Customer Technical Services should be contacted for technical questions not specified in the table.



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