

# Product Range.



Rasselstein



ThyssenKrupp

# Product overview.

## Tinplate, blackplate and ECCS.

Grades			
Euronorm		AISI/ASTM	
Designation	Yield strength	Designation	Hardness
TS 230	230 +/- 50	T 1	49 +/- 4
TS 245	245 +/- 50	T 2	53 +/- 4
TS 260	260 +/- 50	T 3	57 +/- 4
TS 275	275 +/- 50	T 4	61 +/- 4
TS 290	290 +/- 50	T 5	65 +/- 4
TS 550	550 +/- 50	DR 7.5	71
TH 415	415 +/- 50	DR 8	72
TH 435	435 +/- 50	DR 8.5	73
TH 520	520 +/- 50	DR 9	75
TH 550	550 +/- 50	DR 9.5	76
TH 580	580 +/- 50	-	-
TH 620	620 +/- 50	-	-

Tin coating weights for tinplate – Andralyt			
Euronorm	corresponds to	AISI/ASTM	corresponds to
g/m <sup>2</sup> one side	lbs/bb two sides	lbs/bb two sides	g/m <sup>2</sup> one side
1.00	0.089	0.100	1.12
1.40	0.125	0.125	1.40
2.00	0.179	0.175	1.96
2.80	0.250	0.200	2.24
4.00	0.357	0.250	2.80
5.00	0.446	0.375	4.20
5.60	0.500	0.500	5.60
8.40	0.750	0.750	8.40
11.20	1.000	1.000	11.20

Coating weights shown left are possible for regular and differential coating.

Deviations in coating weights from 1.00 to 11.20 g/m<sup>2</sup> or 0.100 to 1.000 lbs/bb possible.

Other tin coating weights on inquiry.

One-side tin coatings possible in range 0.50 to 5.60 g/m<sup>2</sup>.

Marking of differential coatings in accordance with Euronorm, alternative markings by arrangement.

Passivation*		
	Code	Chromium coating
		mg/m <sup>2</sup> per side
Dip passivation	300	1 - 3
Cathodic passivation	311	3.5 - 9
Electrochemical passivation	314	> 5

\*except ECCS

Coating weights for ECCS – Ancrolyt		
	Average coating weight [mg/m <sup>2</sup> per side]	
	min.	max.
Chromium metal	50	140
Chromium oxide	7	35

Note: Total chromium is the sum of metallic chromium and chromium oxide.

Oiling			
	Tinplate	ECCS	Blackplate
	mg/m <sup>2</sup> per side	mg/m <sup>2</sup> per side	mg/m <sup>2</sup> per side
DOS/ATBC	4 +/- 2 7 +/- 3	-	-
BSO	-	4 +/- 2	-
Anticorit	-	-	Coating by arrangement

Other oilings on inquiry.

Finishes			
Finish	Melted	Roughness (Ra)	
		µm	
Bright	yes	≤ 0.35	
Fine stone	yes/no	0.25 - 0.45	
Stone	yes/no	0.35 - 0.60	
Silver matte	yes	≥ 0.90	
Matte	no	≥ 0.90	

Dimensions					
Sheets and coils				Max. width for sheets: 1,120 mm Max. width for ECCS: 1,085 mm Coil diameter, inside: 420 mm; outside: max. 1,600 mm Coil weights: 3.0 – 14.5 t Bundle weights: max. 3.0 t Non-standard requirements on inquiry *on inquiry	
	Coils, straight cut sheets		Scroll cut sheets		
Thickness [mm]	Width [mm]	Length [mm]	Width [mm]		Length [mm]
0.125 - 0.139*	650 - 950	490 - 1,080	650 - 950		560 - 1,150
0.140 - 0.149	650 - 1,030	490 - 1,080	650 - 1,030		560 - 1,150
0.150 - 0.199	650 - 1,080	490 - 1,080	650 - 1,080		560 - 1,150
0.200 - 0.499	650 - 1,200	490 - 1,080	650 - 1,080	560 - 1,150	
Sheets – painted					
	Format sizes [mm] (width x length)				
	min.		max.		
Painted	660 x 510		1,135 x 980		
Strip					
Thickness	Width	Inside diameter	Coil weight		
mm	mm	mm	kg/mm strip width		
0.170 - 0.199	10 - 540	400/450	2 - 7		
0.200 - 0.499	10 - 600	400/450	2 - 7		
Maximum width for ECCS: 540 mm Thicknesses < 0.170 mm by arrangement Other dimensions on inquiry					

PP, PET and PE coatings for Andrafol		
	Coating thicknesses	Base materials
	g/m <sup>2</sup> per side	
PP one side, adhesive bonded	20 - 200 clear	Andralyt
	25 - 100 white	Ancrolyt
PET A two sides, melted	17 - 32 clear	Ancrolyt
	35 white	Ancrolyt
PET B* one or two sides, melted	28 clear	Ancrolyt
	28 white	Ancrolyt
PET one side, adhesive bonded	17 - 32 clear	Andralyt
	35 white	Andralyt
PE two sides, melted	47 blue	Ancrolyt
* for subsequent painting or printing		

Standards		
	Tinplate and ECCS	Blackplate
Coils and sheets	EN 10 202 AISI/ASTM	EN 10 205
Strip	Dimensions: EN 10 140 Quality: EN 10 202	Dimensions: EN 10 140 Quality: EN 10 139

# Product overview.

## Cold rolled uncoated strip.

Grades		
	Delivery condition	
DC 01	LC	C 290 - C 690
DC 03	LC	C 290 - C 390
DC 04	LC	C 290 - C 390
DC 05	LC	

Oiling	
	Oil coating
	mg/m <sup>2</sup> per side
Anticorit	Coating by arrangement

Finishes	
Finish	Roughness (Ra)
	µm
Smooth	< 0.35
Stone finish fine	0.25 - 0.45
Stone finish	0.35 - 0.60
Matte fine	0.75 - 1.25
Matte	1.00 - 2.00
Matte rough	1.75 - 2.25

C 590 in stone finish only

Dimensions				
Thickness	Width		Inside diameter	Coil weight
mm	mm	mm	mm	kg/mm strip width
< 0.170	*	*	400/450	2 - 10
0.170 - 0.199	10 - 540	650 - 1,080	400/450	2 - 10
0.200 - 0.499	10 - 600	650 - 1,200	400/450	2 - 10

Axis: horizontal/vertical  
 Inside diameter 508 mm on inquiry  
 \*on inquiry

Standards	
Dimensions	Quality
EN 10 140	EN 10 139

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