TOOLOX®
PREHARDENED TOOL STEEL

2009-08-21

Dimensional range and tolerances

1. Standard dimensions

The production is based on standard slabs and standard plate width. This results in the following table.

Ordered plate thickness (mm)	Plate width (mm)	Plate length (mm)	Number of plates in each rolling lot
5	2100	5000	6
6	2100	4100	6
7	2100	5400	4
9.5	2100	5500	6
11.5	2100	4500	6
14	2100	5700	4
18	2100	4400	4
22	2100	4500	4
28	2100	5700	2
34	2100	4700	2
38	2100	5200	2
43	2100	4600	2
48	2100	5700	2
53	2100	5200	2
58	2100	4700	2
68	2100	4000	2
78	2100	5100	1
84	2100	4700	1
98	1680	5200	1
104	1680	4900	1
118	1680	5800	1
130	1680	5200	1
148	1680	4500	1
165	1680	4000	1

Minimum ordered weight is one (1) rolling lot.

1.1 Thickness tolerances – AccuRollTech™

Ordered plate thickness (mm)	Min. tolerance (mm)	Max. tolerance (mm)	Max. deviation within one single plate (mm)
5.0 – 7.9	0	+0.80	0.6
8.0 – 14.9	0	+1.00	0.7
15.0 – 24.9	0	+1.20	0.8
25.0 – 34.9	0	+1.50	1.0
35.0 – 165	0	+2.00	1.1

Thickness is measured according to SS-EN 10 029

1.2 Length tolerances

Ordered plate length (m)	Min. tolerance (mm)	Max. tolerance (mm)
3.8 – 6.0	-500	+500

Length is measured according to SS-EN 10 029

1.3 Width tolerances

Ordered plate width (m)	Min. tolerance (mm)	Max. tolerance (mm)
1.68 – 2.1	-50	+50

Width is measured according to SS-EN 10 029

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1.4 Flatness

Ordered plate thickness (mm)	Tolerance 1000 mm ruler	Tolerance 2000 mm ruler
5.0 – 7.9	4 mm	8 mm
8.0 – 104.0	3 mm	6 mm
104.1 – 165	5 mm	8 mm

Flatness is measured according to SS-EN 10 029

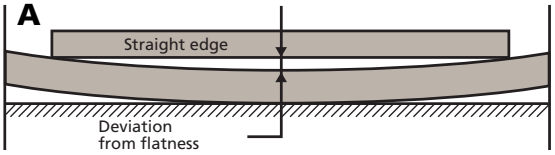

Figure 1. Measuring of flatness.

1.5 Dimensions and weights reported in our documents

➔ In the *Order confirmation* we print the ordered dimension and calculate the plate weight using the ordered dimensions and a theoretical density of 7.85 kg/dm^3.

➔ In the *Packing list* we print the ordered thickness, and the actual measured length and width of each plate. The plate weight is calculated according to the definition given in §1.6.

➔ In the certificate we print the ordered thickness, and the actual measured length and width of the original plate. The plate weight is calculated according to the definition given in §1.6.

➔ In the *Invoice* we print the ordered thickness and the calculated plate weight according to the definition given in §1.6.

1.6 Plate weight

The plate weight is calculated using a steel density of 7.85 kg/dm^3. Plate volume is defined as "max box inside the plate" and is calculated according to Figure 2, by using min actual measured thickness, width and length of each plate.

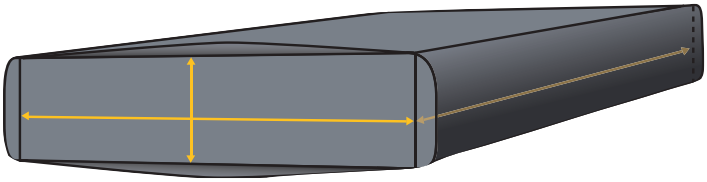

Figure 2. The yellow arrows indicate the sizes used in calculation of delivered plate volume.

2. Tailor made dimensons

Tailor made length, width and thicknesses as well as required tolerances are to be discussed with SSAB Plate sales staff.

In the table to the right you can find possible max. plate length for different width and thickness.

→ Width / ↓ Thickness	1680-1900	1901-2100	2101-2400	2401-2600	2601-2750	2751-3000	3001-3200	3201-3350
5-5.7	12	12	12	12	12	12		
5.8-6.7	12	12	12	12	12	12	12	
6.8-19.0	12	12	12	12	12	12	12	12
19.1-40.0	12	12	12	12	12			
40.1-50.0	12	12	9.7	9	10.5			
50.1-60.0	11.2	12	8.1	7.5	7			
60.1-65.0	11.2	12	7.5	6.9	6.5			
65.1-70.0	11.2	12	6.9	6.4				
70.1-80.0	10	12	6					
80.1-90.0	8.1	12	5.5					
90.1-100.0	8	7.1	5.1					
100.1-115.0	6.9	6.3	4.9					
115.1-130.0	6.1	5.5	4.7					
130.1-140.0	5.7	5.1	4.5					
140.1-150.0	5.3	4.8	4.2					
150.1-155.0	5.1	4.6	4.1					
155.1-165.0	4.8	4.4						

Grey=Discuss with SSAB Plate sales personnel.
Orange = Is not available
Min length; 3.0 meter
Min ordered weight after discussion with our SSAB Plate sales personnel.

When using tolerances in EN 10029, we will use ordered dimensions and weight in all documents.

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