

**TABLE A3.5 Permitted Variations in Thickness of Cold-Rolled, Wide, Coil-Processed Product as Coil and Cut Lengths**

NOTE 1—Thickness measurements are taken at least 15 mm from the edge of the product in the case of slit edges and at least 25 mm from the edge of the product in the case of mill edges.

NOTE 2—Cold-rolled sheets in cut lengths and coils are produced in some type numbers and some widths and thickness to tolerances less than those shown in the table.

NOTE 3—For specified thicknesses other than those shown, the tolerances for the next higher thickness shall apply.

Specified Thickness, mm	Permitted Variation, Over and Under, mm, for specified width (w), w in mm		
	$w \leq 1000$	$1000 < w \leq 1300$	$1300 < w \leq 2100$
0.30	0.03
0.40	0.04	0.04	...
0.50	0.045	0.05	...
0.60	0.05	0.05	...
0.80	0.05	0.05	...
1.00	0.055	0.06	0.07
1.20	0.08	0.08	0.08
1.50	0.08	0.08	0.10
2.00	0.10	0.10	0.11
2.50	0.10	0.11	0.13
3.00	0.13	0.13	0.15
4.00	0.17	0.17	0.17
5.00	0.17	0.17	0.19
6.00	0.17	0.20	0.23
8.00	0.17	0.22	0.25

TABLE A3.6 Permitted Variations in Width of Cold-Rolled, Wide, Coil-Processed Product as Cut Lengths (Not Resquared) and Coil

Specified Thickness, mm ^A	Permitted Variation in Width, mm, for Specified Width (w), mm				
	$w \leq 125$	$125 < w \leq 250$	$250 < w \leq 600$	$600 < w \leq 1000$	$1000 < w \leq 2100$
1.00	+0.5, -0	+0.5, -0	+0.7, -0	+1.5, -0	+2.0, +0
1.50	+0.7, -0	+0.7, -0	+1.0, -0	+1.5, -0	+2.0, +0
2.50	+1.0, -0	+1.0, -0	+1.2, -0	+2.0, -0	+2.5, -0
3.50	+1.2, -0	+1.2, -0	+1.5, -0	+3.0, -0	+3.0, -0
8.00	+2.0, -0	+2.0, -0	+2.0, -0	+4.0, -0	+4.0, -0

^A For specified thicknesses other than those shown, the tolerances for the next higher thickness shall apply.

TABLE A3.7 Permitted Variations in Length of Cold-Rolled, Wide, Coil-Processed Product as Cut Lengths Not Resquared

Specified Length (L), mm	Tolerance, mm	
	Over	Under
≤ 2000	5	0
> 2000	$0.0025 \times L$	0

**TABLE A3.8 Permitted Variations in Flatness of Cold-Rolled, Wide, Coil-Processed Product as Cut Lengths**

Not Specified to Stretcher-Leveled Standard of Flatness ^A			
Specified Thickness, mm	Specified Width, mm	Flatness Tolerance ^B , mm	
<1.50	<1500	10	
	≥1500	12	
≥1.50	<1500	10	
	≥1500	12	
Stretcher-Leveled Standard of Flatness ^C			
Specified Thickness, mm	Specified Width, mm	Specified Length, mm	Flatness Tolerance ^B , mm
≤4.99	<1200	<2400	4
		≥2400	7
	≥1200	<2400	7
		≥2400	7
		≥2400	7
2xx and 3xx Series Specified to ¼ and ½ Hard Tempers			
Specified Thickness, mm	Specified Width, mm	Flatness Tolerance ^B , mm	
		¼ Hard	½ Hard
≤0.04 >0.04 to ≤0.80 >0.80	600 to 900, excl	19	23
		16	23
		13	19
≤0.04 >0.04 to ≤0.80 >0.80	900 to 1200, incl	26	29
		19	29
		16	26

^A Not specified to stretcher-leveled standard of flatness, and not including hard tempers of 2xx and 3xx series, dead-soft sheets, and deep-drawing sheets.

^B Maximum deviation from a horizontal flat surface.

^C Not including hard tempers of 2xx and 3xx series, dead-soft sheets, and deep-drawing sheets.

TABLE A3.9 Permitted Variations in Thickness of Hot-Rolled, Narrow, Flat-Rolled, Coil-Processed Product as Cut Lengths and Coil

Tolerances for variations of thickness of hot-rolled, narrow, coil-processed product as cut lengths and coil shall be identical to the tolerances for hot-rolled, wide, coil-processed product as listed in [Table A3.13](#), unless otherwise agreed upon by seller and purchaser and specified in the purchase order.

TABLE A3.12 Permitted Variations in Flatness of Hot-Rolled, Narrow, Flat-Rolled, Coil-Processed Product as Cut Lengths

Tolerances for variations of flatness of hot-rolled, narrow, coil-processed product as cut lengths shall be identical to the tolerances for hot-rolled, wide, coil-processed product as listed in [Table A3.16](#), unless otherwise agreed upon by seller and purchaser and specified in the purchase order.

TABLE A3.10 Permitted Variations in Width of Hot-Rolled, Narrow, Flat-Rolled, Coil-Processed Product as Cut Lengths and Coil

Tolerances for variations of width of hot-rolled, narrow, coil-processed product as cut lengths and coil shall be identical to the tolerances for hot-rolled, wide, coil-processed product as listed in [Table A3.14](#), unless otherwise agreed upon by seller and purchaser and specified in the purchase order.

TABLE A3.11 Permitted Variations in Length of Hot-Rolled, Narrow, Coil-Processed Product as Cut Lengths

Tolerances for variations of length of hot-rolled, narrow, coil-processed product as cut lengths shall be identical to the tolerances for hot-rolled, wide, coil-processed product as listed in [Table A3.15](#), unless otherwise agreed upon by seller and purchaser and specified in the purchase order.

TABLE A3.13 Permitted Variations in Thickness of Hot-Rolled, Wide, Coil-Processed Product as Coil and Cut Lengths

NOTE 1—Thickness measurements are taken at least 10 mm from the edge of the product.

NOTE 2—For specified thicknesses other than those shown, the tolerances for the next higher thickness shall apply.

Specified Thickness, mm	Permitted Variations of Thickness, mm, Over and Under, Except as Indicated Otherwise, for Specified Width (w)	
	w ≤ 1500	w > 1500
2.0	0.18	0.25
2.25	0.20	0.27
2.5	0.23	0.30
3.0	0.25	0.33
3.5	0.30	0.33
5.0	−0.25, +0.47	−0.25, +0.51
6.0	−0.25, +0.51	−0.25, +0.51
8.0	−0.25, +0.75	−0.25, +0.75