

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 10143

Continuously hot-dip coated steel sheet and strip - Tolerances on dimensions and shape

Tolerances closer than special tolerances may be agreed at the time of enquiry and order. In the case of products for which no yield strength is specified, the tolerances specified in Table 2 for the grades DX51D and S550GD and in table 4 for all other grades apply, unless otherwise agreed at the time of enquiry and order.

Table 1 - Tolerances for steel grades with specified minimum yield strength R_e or specified minimum proof strength $R_{p0,2} < 260$ MPa

Nominal thickness t	dimensions in mm					
	Normal tolerances ^a for a nominal width w			Special tolerances (S) ^a for a nominal width w		
	≤ 1200 ^b	$1200 < w \leq 1500$	> 1500	≤ 1200 ^b	$1200 < w \leq 1500$	> 1500
$0,20 < t \leq 0,40$	$\pm 0,04$	$\pm 0,05$	$\pm 0,06$	$\pm 0,030$	$\pm 0,035$	$\pm 0,040$
$0,40 < t \leq 0,60$	$\pm 0,04$	$\pm 0,05$	$\pm 0,06$	$\pm 0,035$	$\pm 0,040$	$\pm 0,045$
$0,60 < t \leq 0,80$	$\pm 0,05$	$\pm 0,06$	$\pm 0,07$	$\pm 0,040$	$\pm 0,045$	$\pm 0,050$
$0,80 < t \leq 1,00$	$\pm 0,06$	$\pm 0,07$	$\pm 0,08$	$\pm 0,045$	$\pm 0,050$	$\pm 0,060$
$1,00 < t \leq 1,20$	$\pm 0,07$	$\pm 0,08$	$\pm 0,09$	$\pm 0,050$	$\pm 0,060$	$\pm 0,070$
$1,20 < t \leq 1,60$	$\pm 0,10$	$\pm 0,11$	$\pm 0,12$	$\pm 0,060$	$\pm 0,070$	$\pm 0,080$
$1,60 < t \leq 2,00$	$\pm 0,12$	$\pm 0,13$	$\pm 0,14$	$\pm 0,070$	$\pm 0,080$	$\pm 0,090$
$2,00 < t \leq 2,50$	$\pm 0,14$	$\pm 0,15$	$\pm 0,16$	$\pm 0,090$	$\pm 0,100$	$\pm 0,110$
$2,50 < t \leq 3,00$	$\pm 0,17$	$\pm 0,17$	$\pm 0,18$	$\pm 0,110$	$\pm 0,120$	$\pm 0,130$
$3,00 < t \leq 5,00$	$\pm 0,20$	$\pm 0,20$	$\pm 0,21$	$\pm 0,15$	$\pm 0,16$	$\pm 0,17$
$5,00 < t \leq 6,50$	$\pm 0,22$	$\pm 0,22$	$\pm 0,23$	$\pm 0,17$	$\pm 0,18$	$\pm 0,19$

a) The thickness tolerances in the region of coil welds may be increased by a maximum of 50% over a length of 10 m. This increase is applicable to all thicknesses and, unless otherwise agreed at the time of enquiry an order, to normal and special (negative and positive) tolerances. For thicker coatings, see 6.2

b) Wide strip: width ≥ 600 mm; slit wide strip: rolling width ≥ 600 mm, slit to width less than 600 mm.

Table 2 - Tolerances for steel grades with specified minimum proof strength
 $260 \text{ MPa} \leq R_{p0,2} < 360 \text{ MPa}$ and for grades DX51D and S550GD

dimensions in mm

Nominal thickness t	Normal tolerances ^a for a nominal width ^w			Special tolerances (S) ^a for a nominal width ^w		
	$\leq 1200^b$	$1200 < w \leq 1500$	> 1500	$\leq 1200^b$	$1200 < w \leq 1500$	> 1500
$0,20 < t \leq 0,40$	$\pm 0,05$	$\pm 0,06$	$\pm 0,07$	$\pm 0,035$	$\pm 0,040$	$\pm 0,045$
$0,40 < t \leq 0,60$	$\pm 0,05$	$\pm 0,06$	$\pm 0,07$	$\pm 0,040$	$\pm 0,045$	$\pm 0,050$
$0,60 < t \leq 0,80$	$\pm 0,06$	$\pm 0,07$	$\pm 0,08$	$\pm 0,045$	$\pm 0,050$	$\pm 0,060$
$0,80 < t \leq 1,00$	$\pm 0,07$	$\pm 0,08$	$\pm 0,09$	$\pm 0,050$	$\pm 0,060$	$\pm 0,070$
$1,00 < t \leq 1,20$	$\pm 0,08$	$\pm 0,09$	$\pm 0,11$	$\pm 0,060$	$\pm 0,070$	$\pm 0,080$
$1,20 < t \leq 1,60$	$\pm 0,11$	$\pm 0,13$	$\pm 0,14$	$\pm 0,070$	$\pm 0,080$	$\pm 0,090$
$1,60 < t \leq 2,00$	$\pm 0,14$	$\pm 0,15$	$\pm 0,16$	$\pm 0,080$	$\pm 0,090$	$\pm 0,110$
$2,00 < t \leq 2,50$	$\pm 0,16$	$\pm 0,17$	$\pm 0,18$	$\pm 0,110$	$\pm 0,120$	$\pm 0,130$
$2,50 < t \leq 3,00$	$\pm 0,19$	$\pm 0,20$	$\pm 0,20$	$\pm 0,130$	$\pm 0,140$	$\pm 0,150$
$3,00 < t \leq 5,00$	$\pm 0,22$	$\pm 0,24$	$\pm 0,25$	$\pm 0,17$	$\pm 0,18$	$\pm 0,19$
$5,00 < t \leq 6,50$	$\pm 0,24$	$\pm 0,25$	$\pm 0,26$	$\pm 0,19$	$\pm 0,20$	$\pm 0,21$

a) The thickness tolerances in the region of coil welds may be increased by a maximum of 50% over a length of 10 m. This increase is applicable to all thicknesses and, unless otherwise agreed at the time of enquiry an order, to normal and special (negative and positive) tolerances. For thicker coatings, see 6.2

b) Wide strip: width ≥ 600 mm; slit wide strip: rolling width ≥ 600 mm, slit to width less than 600 mm.

Table 5 - Tolerances on width of sheet and wide strip of width ≥ 600 mm

Nominal width ^w	Normal tolerances	Special tolerances (S)
$600 \leq w \leq 1200$	+ 5 0	+ 2 0
$1200 < w \leq 1500$	+ 6 0	+ 2 0
$1500 < w \leq 1800$	+ 7 0	+ 3 0
$w > 1800$	+ 8 0	+ 3 0