

EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**UNI EN 10051**

**Continuously hot-rolled strip and plate/sheet cut from wide strip of non-alloy and alloy steels - Tolerances on dimensions and shape**

**6 Tolerances for sheet/plate**

**6.1 Thickness**

6.1.1 The tolerances on thickness for continuously hot-rolled low carbon steel sheet/plate for cold forming according to EN 10111 are given in Table 2

Table 2 - Tolerances on thickness for hot-rolled low carbon steel sheet/plate and strip for cold forming

dimensions in mm

Nominal thickness t	Tolerances for a nominal width w			
	w ≤ 1200	1200 < w ≤ 1500	1500 < w ≤ 1800	w > 1800
t ≤ 2,00	± 0,13	± 0,14	± 0,16	-
2,00 < t ≤ 2,50	± 0,14	± 0,16	± 0,17	± 0,19
2,50 < t ≤ 3,00	± 0,15	± 0,17	± 0,18	± 0,20
3,00 < t ≤ 4,00	± 0,17	± 0,18	± 0,20	± 0,20
4,00 < t ≤ 5,00	± 0,18	± 0,20	± 0,21	± 0,22
5,00 < t ≤ 6,00	± 0,20	± 0,21	± 0,22	± 0,23
6,00 < t ≤ 8,00	± 0,22	± 0,23	± 0,23	± 0,26
8,00 < t ≤ 11,00	± 0,24	± 0,25	± 0,25	± 0,28

6.1.2 The tolerances on thickness for steels, not covered by 6.1.1 are given in Tables 3 to 6. These tolerances are indicated as categories A, B, C, D. The dimensional tolerances of steel grades which do not have a specified minimum yield strength are the ones of category D.

Table 8 - Tolerances on width for sheet/plate

dimensions in mm

Nominal width w	Tolerances			
	Mill edges		Trimmed edges <sup>a</sup>	
	Lower	Upper	Lower	Upper
w ≤ 1200	0	+20	0	+3
1200 < w ≤ 1850	0	+20	0	+5
w > 1850	0	+25	0	+6

a) Tolerances for trimmed edges apply to products with nominal thickness t ≤ 10 mm; for nominal thickness t > 10 mm the upper tolerances shall be agreed at the time of enquiry and order.

## 6.4 Flatness

6.4.1 For continuously hot-rolled low carbon sheet/plate of steels with a specified minimum yield strength  $Re \leq 300$  MPa (category A) the deviation from flatness shall not exceed the tolerances given in Table 9.

Closer flatness tolerances shall be agreed at the time of enquiry and order (see Annex B, option c).

Table 9 - Tolerances on flatness for steels with a specified minimum yield strength  $Re \leq 300$  MPa (category A)

dimensions in mm

Nominal thickness t	Nominal width w	Tolerances on flatness	Special tolerances on flatness
$t \leq 2,00$	$w \leq 1200$	18	9
	$1200 < w \leq 1500$	20	10
	$w > 1500$	25	13
$2,00 < t \leq 25$	$w \leq 1200$	15	8
	$1200 < w \leq 1500$	18	9
	$w > 1500$	23	12

6.4.2 For continuously hot-rolled low carbon sheet/plate of steels with a specified minimum yield strength  $300 \text{ MPa} < Re \leq 900$  MPa (categories B, C and D) the deviation from flatness shall not exceed the tolerances given in Table 10.

Closer tolerances for categories B and C shall be agreed at the time of enquiry and order (see Annex B, option d).