



## S280GD

### Structural Steels

<b>Material no.</b>	<b>1.0244</b>
according to	DIN EN 10346/ DIN EN 10143

### Surface finish

#### Thickness ranges

NA	0.40 <sup>1)</sup> – 4.00
MA	0.40 <sup>1)</sup> – 4.00
MB	0.40 <sup>1)</sup> – 4.00
MC <sup>1)</sup>	0.40 <sup>1)</sup> – 2.00

1) By agreement

### Mechanical properties (longitudinal)

<b>Yield strength <math>R_e^{3)}</math> in MPa</b>
≥ 280
<b>Tensile strength <math>R_m</math> in MPa</b>
≥ 360 (≤ 500 <sup>4)</sup> )
<b>Total elongation <math>A_{80}^{5)}</math> in %</b>
≥ 18

3)  $R_{eH}/R_{p0.2}$

4) Guide value

5) Thickness ≤ 0.70 mm minus two units.

### Available dimensions

Thickness in mm	Width in mm
0.40 – 0.53	900 – 1,440
0.54 – 0.70	900 – 1,590
0.71 – 0.88	900 – 1,750
0.89 – 2.00	900 – 1,850
2.01 – 3.00	900 – 1,600
3.01 – 4.00	900 – 1,500

### Chemical composition<sup>2)</sup>

(in percent by weight)

	min. in %	max. in %
C		0.20
Si		0.60
Mn		1.70
P		0.10
S		0.045

2) Heat analysis

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