

## DX57D

### Mild, galvanised steel grades for cold forming

Material no.	1.0853
according to	DIN EN 10327/ DIN EN 10143

#### Surface finish

##### Thickness ranges

MB	0.50 – 1.20
MC <sup>1)</sup>	0.50 – 1.20

1) By agreement

#### Chemical composition

(in percent by weight)

	min.	max.
C		0.120 %
Si		0.500 %
Mn		0.600 %
P		0.100 %
S		0.045 %
Ti		0.300 %

#### Mechanical properties (transverse)

Yield strength $R_e$ <sup>1)</sup>	120 – 170 MPa
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Tensile strength $R_m$	260 – 350 MPa
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Total elongation $A_{80}$ <sup>2)</sup>	≥ 41 %
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Hardening exponent $n_{90}$ <sup>3)</sup>	≥ 0.22
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Anisotropy $r_{90}$ <sup>4)</sup>	≥ 2.10
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#### Available dimensions

Thickness in mm	Width in mm
0.50 – 0.55	1.000 – 1,590
0.56 – 0.69	1.000 – 1,750
0.70 – 1.20	1.000 – 1,850

The samples for the tensile test are taken at right angles to rolling direction unless the product width is opposed to this.

1)  $R_{p0.2}$

2) Thickness ≥ 0.71 mm. Thickness 0.50 mm < t ≤ 0.70 mm: minus two units. Thickness ≤ 0.50 mm: minus four units.

3) Thickness t ≤ 0.70 mm: minus 0.01 units.

4) Thickness t > 1.50 mm or t ≤ 0.70 mm: minus 0.2 units.