



DX57D+Z (CR5*)

Mild, galvanised steel grades for cold forming

Material no.	1.0853
according to	DIN EN 10346/ DIN EN 10143 * VDA 239-100

Surface finish

Thickness ranges

MB	0.50 - 2.00
MC ¹⁾	0.50 - 1.50

1) By agreement

Chemical composition²⁾

(in percent by weight according to DIN EN)

	min. in %	max. in %
C		0.12
Si		0.50
Mn		0.60
P		0.10
S		0.045
Ti		0.30

(in percent by weight according to VDA)

	min. in %	max. in %
C		0.02
Si		0.50
Mn		0.30
P		0.020
S		0.020
Ti		0.30
Al	0.010	
Cu		0.20

2) Heat analysis

Mechanical properties³⁾

Yield strength $R_e^{4)}$ in MPa	
DIN EN	120 - 170
VDA	110 - 170
Tensile strength R_m in MPa	
DIN EN	260 - 350
VDA	260 - 330
Total elongation $A_{80}^{5)}$ in %	
DIN EN	≥ 41
VDA	≥ 41

Hardening exponent n	
DIN EN	≥ 0.22
DIN EN	≥ 0.22

Anisotropie $r^{6)}$	
DIN EN	≥ 2.1
VDA	≥ 2.1

3) Test direction is according to DIN EN and according to VDA in transverse rolling direction.

4) $R_{p0.2}$ / R_{eL}

5) Thickness ≥ 0.71 mm. Thickness 0.50 mm $< t \leq 0.70$ mm: minus two units. Thickness ≤ 0.50 mm: minus four units.

6) Thickness 1.50 mm $\leq t < 2.00$ mm: minus 0.2 units; $t \geq 2.00$ mm minus 0.4 units.

Available dimensions

Thickness in mm	Width in mm
0.50 - 0.64	1,000 - 1,450 ⁷⁾
0.55 - 2.00	1,000 - 1,860

7) Widths up to 1,860 by agreement

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