DX54D+Z (CR3*)

Mild, galvanised steel grades for cold forming

Material no.	1.0952
according to	DIN EN 10346/
	DIN EN 10143
	* VDA 239-100

Surface finish

Thickness ranges

NA	0.50 – 3.00
MA	0.50 – 3.00
MB	0.50 – 3.00
MC[1)]	0.50 – 2.00

1) By agreement

Chemical composition[2)]

(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		0.08
Si		0.50
Mn		0.50
P		0.025
S		0.020
Ti		0.30
Al	0.010	
Cu		0.20

2) Heat analysis

Mechanical properties[3)]

Yield strength R_e[4)] in MPa	
DIN EN	120 – 220
VDA	140 – 210

Tensile strength R_m in MPa	
DIN EN	260 – 350
VDA	270 – 350

Total elongation A_{80}[5)] in %	
DIN EN	≥ 36
VDA	≥ 38

Hardening exponent n	
DIN EN	≥ 0.18
VDA	≥ 0.18

Anisotropie r[6)]	
DIN EN	≥ 1.6
VDA	≥ 1.8

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

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

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

6) Thickness 1.50mm ≤ t < 2.00mm: minus 0.2 units; t ≥ 2.0mm minus 0.4 units.

Available dimensions

Thickness in mm	Width in mm
0.50 – 0.55	900 – 1,515
0.56 – 0.64	900 – 1,650[7)]
0.65 – 2.50	900 – 1,860
2.51 – 3.00	900 – 1,650

7) Widths up to 1,860 by agreement

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