

DX54D

Hot-dipped galvanised and pre-painted
mild steel grades for cold forming

Material no.	1.0306
according to	DIN 17162/1
	DIN EN 10327

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 ¹⁾

Yield strength $R_{eL}/R_{p0.2}$	120 – 220 MPa
Tensile strength R_m	260 – 350 MPa
Total elongation A_{80}	≥ 36 %
Hardening exponent	≥ 0.18
Anisotropy	≥ 1.6

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

¹⁾ All given mechanical properties refer to the carrier material before painting.

Available dimensions ¹⁾

Thickness in mm	Width in mm
0.50 – 0.55	900 – 1,590
0.56 – 0.69	900 – 1,750
0.70 – 2.00	900 – 1,850

¹⁾ The maximum cross-section (product: width x thickness) may not exceed 2,800 mm².

Coating systems

Varnish ¹⁾

SP	Polyester (interior and exterior)
SP-PA	Polyamide modified polyester
HDP	High durable polyester
HDP-PA	polyamide mod. high dur. polyester
PVDF	Polyvinylidenfluoride
PUR	Polyurethane
PUR-PA	polyamide modified polyurethane
EP	Epoxide

Foils ²⁾

PVC (F)	Polyvinylfluoride foil
PVF (F)	Polyvinylfluoride foil tedlar®

¹⁾ Further steel grades with coating systems on request.

²⁾ Foils available only single-sided.