

S220GD

Hot-dipped galvanised, pre-painted
structural steels for cold forming

Material no.	1.0241
according to	DIN 17162/2
	DIN EN 10326

Chemical composition

(in percent by weight)

	min.	max.
C		0.200 %
Si		0.600 %
Mn		1.700 %
P		0.100 %
S		0.045 %

Mechanical properties ¹⁾

Yield strength $R_{eL}/R_{p0,2}$	≥ 220 MPa
Tensile strength R_m	≥ 300 MPa
Total elongation A_{80}	≥ 20 %

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
0.40 – 0.44	900 – 1,440
0.45 – 0.57	900 – 1,590
0.58 – 0.70	900 – 1,750
0.71 – 3.00	900 – 1,850

1) The maximum cross-section (product: width x thickness) may not exceed 3,000 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.