

MILD STEEL: (LOW CARBON) _Cold Rolled Sheet
HOT DIPPED GALVANIZED
DSM 1.1.12

Definition:

Hot dipped galvanized steel sheet and strip are produced using an integrated continuous process, during manufacture at the steel mill. This anneals and coats both sides of a cold rolled sheet metal strip with a thin layer of zinc by dipping in a molten zinc bath.

Process equipment controls the coating mass, surface finish & flatness.

Features:

Zinc offers more corrosion resistance than steel, and more protection than any other substance such as paint or powder-coating. The ease of integrated application, make zinc an ideal substance for metal protection and galvanization.

Note:

- Galvanized coatings, compared to electroplate coatings (**DSM 1.1.10**) are thicker and suitable for outdoor exposure without further treatment.

BS EN 10345:2015:DX51D+Z275

DX51D: Cold forming steel: 0,7 - 3,0mm thick

Z275: Minimum 275 g/m² coating mass each surface.

15 µm to 27 µm: coating thickness each surface

ASM (DEK) Applications:

For light weight, corrosion resistance, sheet metal fabrications.

Better suited for a more demanding environment & higher strength applications beyond the scope of **DSM 1.1.10**.

Note:

- Toxic gases are released during welding. Respirators/Ventilation systems must be used.
- Punched holes & cut edges will create uncoated areas.

These values are representative and should not be considered as definitive. For critical applications, refer to material data-sheet.

TYPICAL MECHANICAL PROPERTIES @25°C	
DENSITY:	7860 Kg/m³
YOUNGS MODULUS:	200 GPa
POISSONS RATIO:	0.27 - 0.3
YIELD STRENGTH	140 MPa @ 0,8 mm wall
Max. TENSILE STRENGTH	270 - 500 MPa

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DCR	44895								

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CHEMICAL ANALYSIS		BENEFIT
Carbon	0,18	Good for forming, welding. Malleable & ductile.
Silicon	0,5 max	Good for galvanising purposes
Mang	1,20	Combines with sulphur: good machining & finish.
Phos	0.12 max	Low content, good for malleability.
Sulphur	0.045 max	Low content, good for machining & welding.

CURRENT INTERNATIONAL SPECIFICATION COMPARISON	
BRITISH: BS	BS EN 10346: 2015: DX51D+Z275
GERMAN: DIN	St 02 + Z
AMERICAN: ASTM	CS
JAPANESE GRADE	JIS G 3313 SGCC
CHINESE GRADE	----

These sizes are given in good faith and should not be considered as definitive

SHEET SIZE (mm)			
2000 x 1000 x 0,7mm	2000 x 1000 x 0,8mm	2000 x 1000 x 0,9mm	2000 x 1000 x 1,2mm
2500 x 1250 x 0,7mm	2500 x 1250 x 0,8mm	2500 x 1250 x 0,9mm	2500 x 1250 x 1,2mm
SHEET SIZE (mm)			
2000 x 1000 x 1,5mm	2000 x 1000 x 2,0mm	3000 x 1500 x 2,0mm	2500 x 1250 x 3,0mm
2500 x 1250 x 1,5mm	2500 x 1250 x 2,0mm	2000 x 1000 x 3,0mm	3000 x 1500 x 3,0mm

Alternatives:

Alternative materials are allowed only with the express written permission of ASMPT. Please email details of your request to engineering_enquiries@asmpt.com

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