



GALVANIZED STEEL Grade Data Sheet

Galvanized Steel - hot-dip **zinc** coated structural steel with guaranteed minimum yield strength.
Meets ASTM A 653-09 specifications/requirements.

22, 24 GA - GRADE 50 (Class 1)

Mechanical Properties			Chemical Composition	
Steel base	Guaranteed	Typical Range	Guaranteed Maximum	Percent
Longitudinal tensile			Carbon ©	0.25
Yield strength, minimum ksi	50	50-60	Phosphorus (P)	0.20
Tensile strength, minimum ksi	65	65-73	Manganese (Mn)	1.35
Elongation in 2 inch, minimum %	12	12-36	Sulfur (S)	0.04
Hardness, HRB	-	65-75	See ASTM A 653 for more details	
Supply Condition	Standard	Optional	Fabricating Performance (1-Limited to 5-Excellent, NR-Not Recommended)	
Coating class	G90	G30, G40, G60	Bending	4
Tension leveling	Leveled		Drawing	NR
Surface conditioning	Not Skin-passed	Skin passed, (paint line feed)	Pressing	NR
			Pittsburgh Lock Seam	3
			Roll-forming	5
Chemical treatment	Passivated	Not Passivated	Welding *	5
			Painting **	5

*Design must allow for some strength reduction near welds. **Maximum thickness suitable for organic coil coating is 0.0575".

26, 29 GA - GRADE 80 (Class 1)

Mechanical Properties			Chemical Composition	
Steel base	Guaranteed	Typical Range	Guaranteed Maximum	Percent
Longitudinal tensile			Carbon ©	0.25
Yield strength, minimum ksi	80	80-117	Phosphorus (P)	0.04
Tensile strength, minimum ksi	82	82-120	Manganese (Mn)	1.35
Elongation in 2 inch, minimum %	-	-	Sulfur (S)	0.04
Hardness, HRB	-	85-99	See ASTM A 653 for more details	
Supply Condition	Standard	Optional	Fabricating Performance (1-Limited to 5-Excellent, NR-Not Recommended)	
Coating class	G90	G30, G40, G60	Bending	2
Tension leveling	Leveled		Drawing	NR
Surface conditioning	Not Skin-passed	Skin passed, (paint line feed)	Pressing	NR
			Pittsburgh Lock Seam	NR
			Roll-forming	4
Chemical treatment	Passivated	Not Passivated	Welding *	5
			Painting **	5

*Design must allow for some strength reduction near welds. **Maximum thickness suitable for organic coil coating is 0.0356".