

COLD ROLLED STEELS (see pages 57 to 59)

COMMERCIAL QUALITY (SAE or AISI #1008; ASTM #A366)	Cold Rolled Steels have improved surface finishes and tighter size tolerances than Hot Rolled Steels. They are available in two classes: <i>Class 1</i> is intended for exposed applications; <i>Class 2</i> is for unexposed use. Three finishes can be specified: <i>Matte</i> is the standard finish. It is uniformly dull and suitable for painting. <i>Commercial Bright</i> finish is a relatively bright, intermediate finish. <i>Luster</i> finish is smooth and bright and most suitable for plating. Because perforating will alter surface appearance, surface preparation after perforating may be required before the application of the final finish.	7 to 28 ga.	Up to 60"	Up to 18 ft.	11 to 28 ga.	Up to 60"	.10 max	40,000 to 50,000	25,000 to 35,000	30 to 40	45 to 60	119 (16 ga.)	113
DRAWING QUALITY (ASTM #A619)	Recommended for use where forming requirements are too severe for Commercial Quality. Can be supplied (Class 1) free of fluting or stretcher straining when intended for use in a reasonably short time. Available in mill quantities.	7 to 28 ga.	Up to 60"	Up to 18 ft.	11 to 28 ga.	Up to 60"	.10 max.	40,000 to 50,000	20,000 to 30,000	38 to 40	40 to 50	125 (16 ga.)	120
DRAWING QUALITY, SPECIAL KILLED (ASTM #A620)	This steel has special retarded aging characteristics and is recommended for use when the material must be free of surface disturbances without roller leveling immediately before using and must be essentially free from significant changes in mechanical properties over an extended period of time. Available in mill order quantities.	7 to 28 ga.	Up to 60"	Up to 18 ft.	11 to 28 ga.	Up to 60"	.10 max	40,000 to 50,000	20,000 to 30,000	38 to 40	40 to 50	127 (16 ga.)	122

CORROSION RESISTANT STEELS (see pages 61 to 68)

GALVANIZED (ASTM #525)	A versatile, low-cost, corrosion resistant steel with a zinc coating applied by a continuous hot-dip process. Available in Commercial, Drawing and other Qualities (refer to pages 61 to 64).	10 to 20 ga.	Up to 60"	Up to 18 ft.	12 to 28 ga.	Up to 60"	.10 max.	45,000 to 55,000	35,000 to 45,000	25 to 35	50 to 65	147 (20 ga.)	145
MILL-BONDERIZED GALVANIZED	Galvanized sheet with a coating of mill-bonderized phosphate for immediate painting without flaking or peeling.	16 to 26 ga.	Up to 60"	Up to 18 ft.	16 to 26 ga.	Up to 60"	.10 max.	45,000 to 55,000	35,000 to 45,000	25 to 35	50 to 65	149 (20 ga.)	N.A.
GALVANEALD (Coating Designation A60) (ASTM #A653)	Heat treated galvanized sheet, dull gray without spangles with a rough texture well suited to painting. Can withstand temperatures to 750 without flaking. Less ductile than regular galvanized coating.	14 to 26 ga.	Up to 48"	Up to 18 ft.	14 to 26 ga.	Up to 48"	.10 max.	40,000 to 55,000	32,000 to 42,000	25 to 35	50 to 65	150 (20 ga.)	147
ELECTRO-GALVANIZED (ASTM #A591)	A thin zinc coating is applied to cold rolled steel by electro-plating so as not to appreciatively affect the weight-thickness relationship. Smooth, without spangles, it is recommended as an undercoat for painted finishes. Available in Commercial and Drawing Qualities.	14 to 26 ga.	Up to 60"	Up to 18 ft.	14 to 26 ga.	Up to 60"	.10 max.	40,000 to 50,000	25,000 to 35,000	30 to 40	45 to 60	146 (20 ga.)	144
ALUMINIZED, TYPE 1 (ASTM #463)	Sheet steel coated both sides with aluminum combines the properties of both metals. Type 1 is provided in two weights: Regular and Light (see page 68) and is available in Commercial and Drawing Qualities. If the heavier Type 2 Aluminized coating is desired, consult with your IPA supplier or the steel manufacturer.	14 to 26 ga.	Up to 60"	Up to 18 ft.	14 to 26 ga.	Up to 60"	.10 Max.	50,000 to 60,000	35,000 to 45,000	18 to 28	60 to 70	162 (20 ga.)	157