

Specifications of Hot Rolled Pickled & Oiled Steel

Steel Sheet	Nominal thickness: 2.3-5.0mm Nominal width: 900-1500mm	
Steel Coil	Inner diameter: Ø610 or greater than Ø620	
	Weight: < 30t, or customizable	
Thickness	Delivered in standard thicknesses following company standards, or customizable	
Width	Standard: 1000mm, 1200mm, 1250mm, 1500mm, or customizable	
Grade	Structural Steel	Q195, Q215A, Q215B, Q235A, Q235B
	Cold Formed Steel	SPHC, SPHD, SPHE

Tolerances of Dimensions

Width Tolerance	Nominal Width	Normal Accuracy P.W.A	Advanced Accuracy P.W.B
	≤1200	0-5	0-2
	>1200	0-6	0-2
Thickness Tolerance	To prioritize customer satisfaction, our standard products are delivered with a negative tolerance. For any special requirements, please specify during the ordering process.		
	Our thickness tolerance is stricter than the Chinese national standard. However, minor deviations may occur at the head or tail of steel coils within the first and last 30 meters, which is in line with industry norms.		

Mechanical Properties of Structural Steel

Grade	Yield Strength Ra (MPa)	Tensile Strength Rm (MPa)	Elongation A50 (%)
Q195	≥195	315-430	≥33
Q215A	≥215	335-450	≥31
Q215B	≥215	335-450	≥31
Q235A	≥235	370-500	≥26
Q235B	≥235	370-500	≥26

Chemical Composition of Structural Steel

Grade	Percentage Not Greater Than (%)				
	C	Si	Mn	P	S
Q195	0.12	0.30	0.50	0.035	0.040
Q215A	0.15	0.35	1.20	0.045	0.050
Q215B	0.15	0.35	1.20	0.045	0.045
Q235A	0.22	0.35	1.40	0.045	0.050
Q235B	0.20	0.35	1.40	0.045	0.045

Mechanical Properties of Cold Formed Steel

Grade	Yield Strength (MPa)	Elongation A50 (%)			Bending		
		≥2.5-< 3.2mm	≥3.2-< 4.0mm	≥4.0mm	Bend Angle	Radius	
						Thickness < 3.2 mm	Thickness ≥3.2 mm
SPHC	≥270	≥29	≥31	≥31	180°	0	0.5a
SPHD	≥270	≥35	≥37	≥39	-	-	-
SPHE	≥270	≥37	≥39	≥41	-	-	-

Chemical Composition of Cold Formed Steel

Grade	C	Mn	P	S
SPHC	≤0.15	≤0.60	≤0.050	≤0.050
SPHD	≤0.10	≤0.50	≤0.040	≤0.040
SPHE	≤0.10	≤0.50	≤0.030	≤0.035