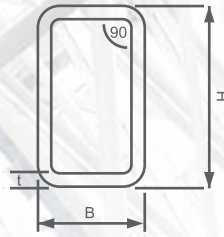




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COLD FORMED WELDED
STRUCTURAL HOLLOW
SECTION OF NON-ALLOY
AND FINE GRAIN STEELS

เหล็กงานโครงสร้าง



MATERIAL OF GRADE	CHEMICAL COMPOSITION (%)					Yield strength (min) N/mm ²	Tensile strength (min)		ELONGATION % (MIN)	IMPACT TEST	MINIMUM AVERAGE ABSORBED ENERGY FOR STANDARD TEST PIECES J
	C Max	Si Max	Mn Max	P Max	S Max		N/mm ²				
	t < 3 mm		3 mm ≤ T ≤ 40 mm		Test temperature °C						
S235JRH	0.170	-	1.400	0.045	0.045	235	360 - 510	340 - 370	24	20	27
S275J0H	0.200	-	1.500	0.040	0.040	275	430 - 580	410 - 560	20	0	27
S275J2H	0.200	-	1.500	0.035	0.035	275	430 - 580	410 - 560	20	-20	27
S355J0H	0.220	0.550	1.600	0.040	0.040	355	510 - 680	490 - 630	20	0	27
S355J2H	0.220	0.550	1.600	0.035	0.035	355	510 - 680	490 - 630	20	-20	27

Length of size		Thickness	Mass/length	Cross Sectional Area	Geometrical moment of inertia (cm ⁴)		Modulus of section (cm ³)		Radius of gyration (cm)		Length of size		Thickness	Mass/length	Cross Sectional Area	Geometrical moment of inertia (cm ⁴)		Modulus of section (cm ³)		Radius of gyration (cm)	
H	B	mm	kg/m	cm ²	Ix	Iy	Zx	Zy	ix	iy	H	B	mm	kg/m	cm ²	Ix	Iy	Zx	Zy	ix	iy
40	20	2.00	1.68	2.14	4.05	1.34	2.02	1.34	1.38	0.793	250	150	5.00	30.10	38.4	3304	1508	264	201	9.28	6.27
60	40	2.00	2.93	3.74	18.4	9.83	6.14	4.92	2.22	1.62	6.00	35.80	45.6	3886	1768	311	236	9.23	6.23		
		2.50	3.60	4.59	22.1	11.7	7.36	5.87	2.19	1.60											
		3.00	4.25	5.41	25.4	13.4	8.46	6.72	2.17	1.58											
100	50	2.50	5.56	7.09	91.2	31.1	18.2	12.4	3.59	2.09	10.00	57.00	72.6	5825	2634	466	351	8.96	6.02		
		3.00	6.60	8.41	106	36.1	21.3	14.4	3.56	2.07											
		4.00	8.59	10.9	134	44.9	26.8	18	3.5	2.03											
		5.00	10.50	13.4	158	52.5	31.6	21	3.44	1.98											
6.00	12.30	15.6	179	58.7	35.8	23.5	3.38	1.94													
									6.30	12.50	15.9	176	58.2	35.1	23.3	3.32	1.91				
									8.00	17.00	21.6	406	215	67.7	53.8	4.33	3.15				
120	80	3.00	8.96	11.4	230	123	38.4	30.9	4.49	3.29	300	150	6.00	40.50	51.6	6074	2080	405	277	10.8	6.35
		4.00	11.70	14.9	295	157	49.1	39.3	4.44	3.24											
		5.00	14.40	18.4	353	188	58.9	46.9	4.39	3.20											
		6.00	17.00	21.6	406	215	67.7	53.8	4.33	3.15											
6.30	17.50	22.2	408	217	68.1	54.3	4.28	3.12													
									8.00	21.40	27.2	476	252	79.3	62.9	4.18	3.04				
									10.00	27.70	35.2	1008	536	134	107	5.35	3.90				
140	80	4.00	13.00	16.5	430	180	61.4	45.1	5.10	3.30	300	200	6.00	45.20	57.6	7370	3962	491	396	11.3	8.29
		5.00	16.00	20.4	517	216	73.9	54	5.04	3.26											
		6.00	18.90	24	597	248	85.3	62	4.98	3.21											
		6.30	19.40	24.8	603	251	86.1	62.9	4.93	3.19											
8.00	23.90	30.4	708	293	101	73.3	4.82	3.10													
									10.00	27.70	35.2	1008	536	134	107	5.35	3.90				
									12.50	78.10	99.5	10594	3595	706	479	10.3	6.01				
350	250	6.00	54.70	69.6	12457	7458	712	597	13.4	10.3	400	200	8.00	71.60	91.2	16001	9573	914	766	13.2	10.2
		6.30	57.00	72.6	12923	7744	738	620	13.3	10.3											
		8.00	71.60	91.2	16001	9573	914	766	13.2	10.2											
		10.00	88.40	113	19407	11588	1109	927	13.1	10.1											
12.00	104.00	132	22197	13261	1268	1061	13	10													
									12.50	108.00	137	22922	13690	1310	1095	12.9	9.99				
									12.50	108.00	137	27100	9260	1355	926	14.1	8.22				
200	100	4.00	18.00	22.9	1200	411	120	82.2	7.23	4.23	400	200	8.00	71.60	91.2	18974	6517	949	652	14.4	8.45
		5.00	22.30	28.4	1459	497	146	99.4	7.17	4.19											
6.00	26.40	33.6	1703	577	170	115	7.12	4.14													
									6.30	27.40	34.8	1739	591	174	118	7.06	4.12				
									8.00	33.90	43.2	2091	705	209	141	6.95	4.04				
10.00	41.30	52.6	2444	818	244	164	6.82	3.94													

Tolerances
Length of size :
H, B < 100 : ± 1% with a minimum of ± 0.5 mm
100 ≤ H, B ≤ 200 : ± 0.8%
H, B > 200 ± 0.6%
Thickness :
t ≤ 5 mm ± 10%
t > 5 mm ± 0.5 mm
Weight : ± 6%