

Table 1–11 (continued) Rectangular HSS Dimensions and Properties

Shape	Wall Thick- mess, F	Monthson Maria	Area, A	6.7	AT	Auto X-X			
						7 m.1	s in.'	in.	2 (m.2
×70	0.465	75.94	20.0	18.5	207.8	573	0.1.0	5.22	986.0
54/994	0.340	58.07	166.40	25.7	337.3	4447	63.9	5.29	716.30
w/Www.	0.291	46.67	12.4	30.4	465.10	380	54.3	5.32	64.6
54/4e -	0.233	39.48	00.8	20:9	57.1	310	44.3	5.35	52.4
HSS14-di-Ne	0.501	76.00	21.0	7.30	21.1	4210	66.5	6.77	88.7
+300	0.466	62.33	107.25	9.90	227.3	400	537.44	4.64	73.6
34/706	0.349	47.86	10.00	14.2	267/10	3017	45.3	4.91	1997.39
2476 to 1	0.291	40.35	88.8	17.6	465.1	22%	26.7	4.94	48.6
26794	0.233	32.66	8.96	22.8	57.1	202	31.7	44.946	269.66
wither.	0.374	24.66	6.76	31.5	77.5	120	24.3	5.01	30.1
HSS14+4+/%	0.581	67.59	10.7	5.88	21.1	303	53.3	4.47	220.1
34/5/01	0.466	55.53	105.36	5.00	207.1	2017	45.3	4.55	671.0
200 PM	0.349	42.7%	10.00	8.46	397.7	2002	266.0	4.50	427.00
340 Miles	0.291	36.09	0.002	50.7	485.3	2296	30.9	4.67	40.6
540%	0.233	29.25	0.00	14.2	507.1	178	25.4	4.71	30.2
octor.	0.174	22,12	0.00	20.0	77.5	137	10.5	46.3746	25.3
HSS12×30×35	0.465	66.14	100.00	18.5	223.8	366	60.9	4.56	78.8
Self-War III	0.349	52.90	194.66	26.7	201.4	300	61.6	44.603	400.7
Sec Week	0.291	44.62	12.2	31.43	206.2	264	44.0	41.654	59.7
>5%	0.233	36.00	0.00	20.9	46.5	216	266.0	4.63	42.1
HSS12-8-79	0.581	76.13	221.0	10.8	100.00	2007	66.1	4.34	192.1
ter filter	0.465	62.33	17.2	34.2	22.8	303	55.6	46,411	4605.71
>5%	0.349	47.82	100.00	19.9	30.40	2992	43.7	41.407	50.0
in/Year	0.291	40.36	11.1	24.5	38.2	224	37.A	4.50	44.9
H29	0.230	32,60	8.96	31.3	48.5	7684	30.6	4.53	266.66
367f54	0.174	24.79	6.76	43.0	66.0	9-90	22.4	4.56	27.8
HSS12×6×14	0.581	67.62	10.7	7.33	17.7	321	53.4	4.14	66.6
H20	0.466	55-53	19.35	9.90	22.8	271	45.2	4.21	57.4
1996	0.348	42.72	11.00	14(2)	25.4	210	35.9	4.29	44.8
16/9/94	0.299	36.50	9.90	17.6	36.2	1054	30.7	4.39	30.1
0.764	0.220	29.19	8.00	22.8	46.5	1/5/1	25.2	4.34	31.1
(m/767mb)	0.174	22.22	6.06	201.5	406.40	1116	19:4	4.36	200.7

Note: For compactness criteria, refer to the end of Table 1-12.

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Simplified LRFD Bridge Design Jai B. Kim, Robert H. Kim, Jonathan Eberle, 2013-04-08 Helping readers prepare for the civil and structural PE exam this book presents numerous design examples that serve as a comprehensive step by step guide to basic bridge design using the AASHTO LRFD Bridge Design Specifications Fifth Edition It offers a simplified explanation of load resistance factor design LRFD method based bridge design principles and lists the AASHTO reference section numbers alongside formulas and where topics are introduced to refer the reader to the primary source material This is a valuable reference for civil engineering students as well as for practicing engineers

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