



Highlight W/D < 0.37 lb/ft / in
 Highlight M/D < 23.00 kg/m / m

SIN Beam M/D for ULC

Surf Area = 3 * W_{Flange} + 4 * T_{Flange} + 2 * D_{Web} * 1.216 - 2 * T_{web}
 The 1.216 factor is to account for the sinusoidal shape of the web

Designation	Surface Area (m ²) per metre length less top flange							Metric M/D Ratio (kg/m / m)							Imperial W/D Ratio (lb/ft / in)						
	WTO	WTA	WTB	WTC	WTF	WTH	WTK	WTO	WTA	WTB	WTC	WTF	WTH	WTK	WTO	WTA	WTB	WTC	WTF	WTH	WTK
a	b	c	d	e	Column1	Column2	Column3	f	g	h	i	Column4	Column5	Column6	Column7	Column8	Column9	Column10	Column11	Column12	s
WT_333/127x6	1.21	1.21	1.21	1.21	1.21	1.21	1.20	14.4	15.4	17.4	18.4	21.5	23.5	26.5	0.25	0.26	0.30	0.31	0.37	0.40	0.45
WT_333/152x6	1.29	1.29	1.29	1.29	1.28	1.28	1.28	15.5	16.5	18.4	19.3	22.2	24.1	26.9	0.26	0.28	0.31	0.33	0.38	0.41	0.46
WT_333/152x8	1.30	1.30	1.29	1.29	1.29	1.29	1.29	18.4	19.3	21.2	22.2	25.0	26.9	29.8	0.31	0.33	0.36	0.38	0.43	0.46	0.51
WT_333/152x10	1.30	1.30	1.30	1.30	1.30	1.30	1.29	21.2	22.1	24.0	25.0	27.8	29.7	32.6	0.36	0.38	0.41	0.43	0.47	0.51	0.55
WT_333/178x10	1.38	1.38	1.38	1.38	1.37	1.37	1.37	22.8	23.7	25.5	26.4	29.0	30.8	33.5	0.39	0.40	0.43	0.45	0.49	0.53	0.57
WT_333/152x13	1.31	1.31	1.31	1.31	1.31	1.31	1.31	26.8	27.7	29.6	30.5	33.3	35.2	38.1	0.46	0.47	0.50	0.52	0.57	0.60	0.65
WT_333/178x13	1.39	1.39	1.39	1.39	1.39	1.38	1.38	29.0	29.8	31.6	32.5	35.2	36.9	39.6	0.49	0.51	0.54	0.55	0.60	0.63	0.67
WT_333/203x13	1.47	1.47	1.46	1.46	1.46	1.46	1.46	30.9	31.7	33.4	34.3	36.8	38.5	41.0	0.53	0.54	0.57	0.58	0.63	0.66	0.70
WT_333/152x19	1.34	1.34	1.34	1.34	1.33	1.33	1.33	37.6	38.5	40.4	41.3	44.1	45.9	48.7	0.64	0.66	0.69	0.70	0.75	0.78	0.83
WT_333/203x16	1.48	1.48	1.48	1.48	1.47	1.47	1.47	37.5	38.3	40.0	40.8	43.3	45.0	47.6	0.64	0.65	0.68	0.70	0.74	0.77	0.81
WT_333/203x19	1.49	1.49	1.49	1.49	1.49	1.49	1.48	44.0	44.8	46.4	47.3	49.8	51.5	54.0	0.75	0.76	0.79	0.81	0.85	0.88	0.92
WT_333/254x19	1.65	1.64	1.64	1.64	1.64	1.64	1.64	49.1	49.9	51.4	52.1	54.4	55.9	58.2	0.84	0.85	0.88	0.89	0.93	0.95	0.99
WT_333/203x25	1.52	1.52	1.52	1.51	1.51	1.51	1.51	56.6	57.4	59.0	59.9	62.3	64.0	66.5	0.96	0.98	1.01	1.02	1.06	1.09	1.13
WT_333/254x25	1.67	1.67	1.67	1.67	1.67	1.66	1.66	63.5	64.3	65.8	66.5	68.8	70.3	72.6	1.08	1.09	1.12	1.13	1.17	1.20	1.24
WT_333/279x25	1.75	1.75	1.74	1.74	1.74	1.74	1.74	66.6	67.3	68.7	69.4	71.6	73.1	75.2	1.13	1.15	1.17	1.18	1.22	1.24	1.28
WT_333/305x25	1.82	1.82	1.82	1.82	1.82	1.82	1.81	69.3	70.0	71.4	72.1	74.2	75.6	77.7	1.18	1.19	1.22	1.23	1.26	1.29	1.32
WT_333/254x32	1.70	1.70	1.69	1.69	1.69	1.69	1.69	77.5	78.3	79.7	80.5	82.7	84.3	86.5	1.32	1.33	1.36	1.37	1.41	1.43	1.47
WT_333/330x25	1.90	1.90	1.90	1.90	1.89	1.89	1.89	71.9	72.5	73.9	74.5	76.5	77.9	79.9	1.22	1.24	1.26	1.27	1.30	1.33	1.36
WT_333/356x25	1.98	1.97	1.97	1.97	1.97	1.97	1.97	74.2	74.9	76.2	76.8	78.7	80.0	81.9	1.26	1.28	1.30	1.31	1.34	1.36	1.40
WT_333/305x32	1.85	1.85	1.85	1.85	1.84	1.84	1.84	84.8	85.5	86.9	87.6	89.6	91.0	93.1	1.44	1.46	1.48	1.49	1.53	1.55	1.59
WT_333/406x25	2.13	2.13	2.13	2.12	2.12	2.12	2.12	78.4	79.0	80.2	80.8	82.6	83.8	85.6	1.34	1.35	1.37	1.38	1.41	1.43	1.46
WT_333/356x32	2.00	2.00	2.00	2.00	2.00	1.99	1.99	91.0	91.7	92.9	93.6	95.5	96.8	98.7	1.55	1.56	1.58	1.59	1.63	1.65	1.68
WT_333/406x32	2.15	2.15	2.15	2.15	2.15	2.15	2.14	96.3	96.9	98.1	98.7	100.5	101.7	103.5	1.64	1.65	1.67	1.68	1.71	1.73	1.76
WT_333/450x32	2.28	2.28	2.28	2.28	2.28	2.28	2.27	100.3	100.9	102.0	102.6	104.3	105.4	107.1	1.71	1.72	1.74	1.75	1.78	1.80	1.82





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Designation	Surface Area (m ²) per metre length less top flange							Metric M/D Ratio (kg/m / m)							Imperial W/D Ratio (lb/ft / in)						
	WTO	WTA	WTB	WTC	WTF	WTH	WTK	WTO	WTA	WTB	WTC	WTF	WTH	WTK	WTO	WTA	WTB	WTC	WTF	WTH	WTK
a	b	c	d	e	Column1	Column2	Column3	f	g	h	i	Column4	Column5	Column6	Column7	Column8	Column9	Column10	Column11	Column12	s
WT_440/127x6	1.47	1.47	1.47	1.47	1.47	1.47	1.46	12.9	14.0	16.2	17.3	20.6	22.8	26.1	0.22	0.24	0.28	0.29	0.35	0.39	0.44
WT_440/152x6	1.55	1.55	1.55	1.55	1.54	1.54	1.54	13.9	15.0	17.0	18.1	21.2	23.3	26.4	0.24	0.25	0.29	0.31	0.36	0.40	0.45
WT_440/152x8	1.56	1.56	1.55	1.55	1.55	1.55	1.55	16.3	17.3	19.4	20.4	23.6	25.6	28.8	0.28	0.30	0.33	0.35	0.40	0.44	0.49
WT_440/152x10	1.56	1.56	1.56	1.56	1.56	1.56	1.55	18.7	19.7	21.8	22.8	25.9	28.0	31.1	0.32	0.34	0.37	0.39	0.44	0.48	0.53
WT_440/178x10	1.64	1.64	1.64	1.64	1.63	1.63	1.63	20.1	21.1	23.1	24.1	27.0	29.0	32.0	0.34	0.36	0.39	0.41	0.46	0.49	0.54
WT_440/152x13	1.58	1.57	1.57	1.57	1.57	1.57	1.57	23.3	24.4	26.4	27.4	30.5	32.6	35.7	0.40	0.41	0.45	0.47	0.52	0.56	0.61
WT_440/178x13	1.65	1.65	1.65	1.65	1.65	1.64	1.64	25.3	26.3	28.3	29.3	32.2	34.2	37.1	0.43	0.45	0.48	0.50	0.55	0.58	0.63
WT_440/203x13	1.73	1.73	1.73	1.72	1.72	1.72	1.72	27.1	28.1	30.0	30.9	33.7	35.6	38.4	0.46	0.48	0.51	0.53	0.57	0.61	0.65
WT_440/152x19	1.60	1.60	1.60	1.60	1.60	1.59	1.59	32.5	33.5	35.5	36.5	39.6	41.6	44.7	0.55	0.57	0.60	0.62	0.67	0.71	0.76
WT_440/203x16	1.74	1.74	1.74	1.74	1.73	1.73	1.73	32.8	33.7	35.6	36.5	39.3	41.2	44.0	0.56	0.57	0.61	0.62	0.67	0.70	0.75
WT_440/203x19	1.75	1.75	1.75	1.75	1.75	1.75	1.74	38.3	39.2	41.1	42.0	44.8	46.7	49.5	0.65	0.67	0.70	0.72	0.76	0.80	0.84
WT_440/254x19	1.91	1.90	1.90	1.90	1.90	1.90	1.90	43.2	44.1	45.8	46.6	49.2	50.9	53.5	0.74	0.75	0.78	0.79	0.84	0.87	0.91
WT_440/203x25	1.78	1.78	1.78	1.78	1.77	1.77	1.77	49.2	50.1	51.9	52.8	55.6	57.4	60.2	0.84	0.85	0.88	0.90	0.95	0.98	1.03
WT_440/254x25	1.93	1.93	1.93	1.93	1.93	1.92	1.92	55.8	56.6	58.3	59.2	61.7	63.4	66.0	0.95	0.96	0.99	1.01	1.05	1.08	1.12
WT_440/279x25	2.01	2.01	2.00	2.00	2.00	2.00	2.00	58.7	59.5	61.1	62.0	64.4	66.1	68.5	1.00	1.01	1.04	1.06	1.10	1.13	1.17
WT_440/305x25	2.08	2.08	2.08	2.08	2.08	2.08	2.07	61.4	62.2	63.8	64.6	66.9	68.5	70.9	1.05	1.06	1.09	1.10	1.14	1.17	1.21
WT_440/254x32	1.96	1.96	1.95	1.95	1.95	1.95	1.95	68.0	68.8	70.5	71.4	73.9	75.6	78.1	1.16	1.17	1.20	1.22	1.26	1.29	1.33
WT_440/330x25	2.16	2.16	2.16	2.16	2.15	2.15	2.15	63.9	64.7	66.2	67.0	69.3	70.8	73.1	1.09	1.10	1.13	1.14	1.18	1.21	1.25
WT_440/356x25	2.24	2.23	2.23	2.23	2.23	2.23	2.23	66.3	67.0	68.5	69.2	71.5	72.9	75.2	1.13	1.14	1.17	1.18	1.22	1.24	1.28
WT_440/305x32	2.11	2.11	2.11	2.11	2.10	2.10	2.10	75.1	75.9	77.4	78.2	80.6	82.2	84.5	1.28	1.29	1.32	1.33	1.37	1.40	1.44
WT_440/406x25	2.39	2.39	2.39	2.38	2.38	2.38	2.38	70.5	71.2	72.6	73.3	75.4	76.8	78.9	1.20	1.21	1.24	1.25	1.28	1.31	1.34
WT_440/356x32	2.26	2.26	2.26	2.26	2.26	2.25	2.25	81.2	82.0	83.4	84.2	86.4	87.8	90.0	1.38	1.40	1.42	1.43	1.47	1.50	1.53
WT_440/406x32	2.41	2.41	2.41	2.41	2.41	2.41	2.40	86.6	87.3	88.7	89.3	91.4	92.8	94.9	1.47	1.49	1.51	1.52	1.56	1.58	1.62
WT_440/450x32	2.54	2.54	2.54	2.54	2.54	2.54	2.53	90.7	91.3	92.6	93.3	95.3	96.6	98.6	1.54	1.56	1.58	1.59	1.62	1.64	1.68





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Designation	Surface Area (m ²) per metre length less top flange							Metric M/D Ratio (kg/m / m)							Imperial W/D Ratio (lb/ft / in)						
	WTO	WTA	WTB	WTC	WTF	WTH	WTK	WTO	WTA	WTB	WTC	WTF	WTH	WTK	WTO	WTA	WTB	WTC	WTF	WTH	WTK
a	b	c	d	e	Column1	Column2	Column3	f	g	h	i	Column4	Column5	Column6	Column7	Column8	Column9	Column10	Column11	Column12	s
WT_500/127x6	1.62	1.62	1.62	1.62	1.61	1.61	1.61	12.3	13.4	15.7	16.8	20.2	22.5	25.9	0.21	0.23	0.27	0.29	0.34	0.38	0.44
WT_500/152x6	1.70	1.69	1.69	1.69	1.69	1.69	1.69	13.2	14.3	16.5	17.5	20.8	22.9	26.2	0.23	0.24	0.28	0.30	0.35	0.39	0.45
WT_500/152x8	1.70	1.70	1.70	1.70	1.70	1.70	1.69	15.4	16.5	18.6	19.7	22.9	25.1	28.3	0.26	0.28	0.32	0.34	0.39	0.43	0.48
WT_500/152x10	1.71	1.71	1.71	1.71	1.70	1.70	1.70	17.6	18.7	20.8	21.9	25.1	27.2	30.5	0.30	0.32	0.35	0.37	0.43	0.46	0.52
WT_500/178x10	1.78	1.78	1.78	1.78	1.78	1.78	1.78	19.0	20.0	22.0	23.1	26.1	28.2	31.3	0.32	0.34	0.38	0.39	0.45	0.48	0.53
WT_500/152x13	1.72	1.72	1.72	1.72	1.72	1.71	1.71	21.9	22.9	25.1	26.1	29.3	31.5	34.7	0.37	0.39	0.43	0.45	0.50	0.54	0.59
WT_500/178x13	1.80	1.80	1.79	1.79	1.79	1.79	1.79	23.8	24.8	26.8	27.8	30.9	33.0	36.0	0.40	0.42	0.46	0.47	0.53	0.56	0.61
WT_500/203x13	1.87	1.87	1.87	1.87	1.87	1.87	1.86	25.5	26.5	28.4	29.4	32.4	34.3	37.3	0.43	0.45	0.48	0.50	0.55	0.58	0.63
WT_500/152x19	1.75	1.75	1.74	1.74	1.74	1.74	1.74	30.3	31.3	33.4	34.5	37.6	39.7	42.9	0.52	0.53	0.57	0.59	0.64	0.68	0.73
WT_500/203x16	1.89	1.89	1.88	1.88	1.88	1.88	1.88	30.7	31.7	33.6	34.6	37.5	39.5	42.4	0.52	0.54	0.57	0.59	0.64	0.67	0.72
WT_500/203x19	1.90	1.90	1.90	1.90	1.89	1.89	1.89	35.8	36.8	38.7	39.7	42.6	44.6	47.5	0.61	0.63	0.66	0.68	0.73	0.76	0.81
WT_500/254x19	2.05	2.05	2.05	2.05	2.05	2.04	2.04	40.6	41.5	43.3	44.2	46.9	48.7	51.4	0.69	0.71	0.74	0.75	0.80	0.83	0.88
WT_500/203x25	1.92	1.92	1.92	1.92	1.92	1.92	1.92	45.9	46.8	48.8	49.7	52.6	54.5	57.4	0.78	0.80	0.83	0.85	0.90	0.93	0.98
WT_500/254x25	2.08	2.08	2.07	2.07	2.07	2.07	2.07	52.3	53.2	54.9	55.8	58.5	60.3	63.0	0.89	0.91	0.94	0.95	1.00	1.03	1.07
WT_500/279x25	2.15	2.15	2.15	2.15	2.15	2.15	2.14	55.1	56.0	57.7	58.6	61.2	62.9	65.5	0.94	0.95	0.98	1.00	1.04	1.07	1.12
WT_500/305x25	2.23	2.23	2.23	2.23	2.22	2.22	2.22	57.8	58.6	60.3	61.1	63.6	65.3	67.8	0.98	1.00	1.03	1.04	1.08	1.11	1.15
WT_500/254x32	2.10	2.10	2.10	2.10	2.10	2.10	2.09	63.7	64.6	66.3	67.2	69.9	71.7	74.3	1.08	1.10	1.13	1.15	1.19	1.22	1.27
WT_500/330x25	2.31	2.30	2.30	2.30	2.30	2.30	2.30	60.3	61.1	62.7	63.5	65.9	67.5	70.0	1.03	1.04	1.07	1.08	1.12	1.15	1.19
WT_500/356x25	2.38	2.38	2.38	2.38	2.38	2.37	2.37	62.6	63.4	64.9	65.7	68.1	69.6	72.0	1.07	1.08	1.11	1.12	1.16	1.19	1.23
WT_500/305x32	2.25	2.25	2.25	2.25	2.25	2.25	2.25	70.6	71.4	73.1	73.9	76.4	78.1	80.6	1.20	1.22	1.24	1.26	1.30	1.33	1.37
WT_500/406x25	2.53	2.53	2.53	2.53	2.53	2.53	2.52	66.8	67.6	69.0	69.8	72.0	73.5	75.7	1.14	1.15	1.18	1.19	1.23	1.25	1.29
WT_500/356x32	2.41	2.41	2.40	2.40	2.40	2.40	2.40	76.7	77.4	79.0	79.8	82.1	83.7	86.0	1.31	1.32	1.35	1.36	1.40	1.43	1.47
WT_500/406x32	2.56	2.56	2.56	2.56	2.55	2.55	2.55	82.0	82.7	84.2	84.9	87.1	88.6	90.8	1.40	1.41	1.43	1.45	1.48	1.51	1.55
WT_500/450x32	2.69	2.69	2.69	2.69	2.68	2.68	2.68	86.1	86.8	88.2	88.9	91.0	92.4	94.5	1.47	1.48	1.50	1.51	1.55	1.57	1.61





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a	b	c	d	e	Column1	Column2	Column3	f	g	h	i	Column4	Column5	Column6	Column7	Column8	Column9	Column10	Column11	Column12	s
WT_610/127x6	1.89	1.89	1.88	1.88	1.88	1.88	1.88	11.4	12.6	14.9	16.1	19.7	22.0	25.6	0.19	0.21	0.25	0.27	0.33	0.38	0.44
WT_610/152x6	1.96	1.96	1.96	1.96	1.96	1.96	1.95	12.2	13.4	15.6	16.8	20.2	22.5	25.9	0.21	0.23	0.27	0.29	0.34	0.38	0.44
WT_610/152x8	1.97	1.97	1.97	1.97	1.96	1.96	1.96	14.1	15.3	17.5	18.7	22.1	24.3	27.7	0.24	0.26	0.30	0.32	0.38	0.41	0.47
WT_610/152x10	1.97	1.97	1.97	1.97	1.97	1.97	1.97	16.0	17.1	19.4	20.5	23.9	26.2	29.6	0.27	0.29	0.33	0.35	0.41	0.45	0.50
WT_610/178x10	2.05	2.05	2.05	2.05	2.05	2.04	2.04	17.3	18.4	20.5	21.6	24.9	27.1	30.3	0.29	0.31	0.35	0.37	0.42	0.46	0.52
WT_610/152x13	1.99	1.99	1.99	1.98	1.98	1.98	1.98	19.7	20.9	23.1	24.2	27.6	29.8	33.2	0.34	0.36	0.39	0.41	0.47	0.51	0.57
WT_610/178x13	2.06	2.06	2.06	2.06	2.06	2.06	2.05	21.5	22.5	24.7	25.8	29.0	31.2	34.5	0.37	0.38	0.42	0.44	0.49	0.53	0.59
WT_610/203x13	2.14	2.14	2.14	2.14	2.13	2.13	2.13	23.1	24.1	26.2	27.2	30.4	32.5	35.6	0.39	0.41	0.45	0.46	0.52	0.55	0.61
WT_610/152x19	2.01	2.01	2.01	2.01	2.01	2.01	2.00	27.0	28.1	30.4	31.5	34.8	37.0	40.4	0.46	0.48	0.52	0.54	0.59	0.63	0.69
WT_610/203x16	2.15	2.15	2.15	2.15	2.15	2.15	2.14	27.6	28.7	30.7	31.8	34.9	37.0	40.1	0.47	0.49	0.52	0.54	0.59	0.63	0.68
WT_610/203x19	2.17	2.16	2.16	2.16	2.16	2.16	2.16	32.1	33.2	35.2	36.3	39.4	41.5	44.6	0.55	0.57	0.60	0.62	0.67	0.71	0.76
WT_610/254x19	2.32	2.32	2.32	2.31	2.31	2.31	2.31	36.6	37.6	39.5	40.5	43.4	45.3	48.2	0.62	0.64	0.67	0.69	0.74	0.77	0.82
WT_610/203x25	2.19	2.19	2.19	2.19	2.19	2.18	2.18	41.0	42.0	44.1	45.1	48.2	50.3	53.3	0.70	0.72	0.75	0.77	0.82	0.86	0.91
WT_610/254x25	2.34	2.34	2.34	2.34	2.34	2.34	2.33	47.0	48.0	49.9	50.8	53.7	55.6	58.5	0.80	0.82	0.85	0.87	0.91	0.95	1.00
WT_610/279x25	2.42	2.42	2.42	2.42	2.41	2.41	2.41	49.7	50.6	52.5	53.4	56.2	58.1	60.9	0.85	0.86	0.89	0.91	0.96	0.99	1.04
WT_610/305x25	2.50	2.49	2.49	2.49	2.49	2.49	2.49	52.2	53.1	55.0	55.9	58.6	60.4	63.1	0.89	0.91	0.94	0.95	1.00	1.03	1.07
WT_610/254x32	2.37	2.37	2.37	2.37	2.36	2.36	2.36	57.2	58.1	60.0	61.0	63.9	65.8	68.6	0.97	0.99	1.02	1.04	1.09	1.12	1.17
WT_610/330x25	2.57	2.57	2.57	2.57	2.57	2.56	2.56	54.6	55.5	57.3	58.1	60.8	62.5	65.2	0.93	0.95	0.98	0.99	1.04	1.07	1.11
WT_610/356x25	2.65	2.65	2.65	2.64	2.64	2.64	2.64	56.9	57.7	59.4	60.3	62.9	64.6	67.1	0.97	0.98	1.01	1.03	1.07	1.10	1.14
WT_610/305x32	2.52	2.52	2.52	2.52	2.52	2.51	2.51	63.8	64.7	66.5	67.4	70.1	71.9	74.6	1.09	1.10	1.13	1.15	1.19	1.22	1.27
WT_610/406x25	2.80	2.80	2.80	2.80	2.79	2.79	2.79	61.0	61.8	63.4	64.3	66.7	68.3	70.7	1.04	1.05	1.08	1.09	1.14	1.16	1.20
WT_610/356x32	2.67	2.67	2.67	2.67	2.67	2.67	2.66	69.6	70.5	72.2	73.0	75.5	77.2	79.8	1.19	1.20	1.23	1.24	1.29	1.32	1.36
WT_610/406x32	2.83	2.82	2.82	2.82	2.82	2.82	2.82	74.8	75.6	77.2	78.0	80.4	82.1	84.5	1.27	1.29	1.32	1.33	1.37	1.40	1.44
WT_610/450x32	2.96	2.96	2.95	2.95	2.95	2.95	2.95	78.9	79.6	81.2	81.9	84.2	85.8	88.1	1.34	1.36	1.38	1.40	1.43	1.46	1.50





Highlight W/D < 0.37 lb/ft / in
 Highlight M/D < 23.00 kg/m / m

SIN Beam M/D for ULC

Surf Area = 3 * W_{Flange} + 4 * T_{Flange} + 2 * D_{Web} * 1.216 - 2 * T_{web}
 The 1.216 factor is to account for the sinusoidal shape of the web

Designation	Surface Area (m ²) per metre length less top flange							Metric M/D Ratio (kg/m / m)							Imperial W/D Ratio (lb/ft / in)						
	WTO	WTA	WTB	WTC	WTF	WTH	WTK	WTO	WTA	WTB	WTC	WTF	WTH	WTK	WTO	WTA	WTB	WTC	WTF	WTH	WTK
a	b	c	d	e	Column1	Column2	Column3	f	g	h	i	Column4	Column5	Column6	Column7	Column8	Column9	Column10	Column11	Column12	s
WT_750/127x6	2.23	2.23	2.23	2.22	2.22	2.22	2.22	10.6	11.8	14.2	15.5	19.2	21.6	25.3	0.18	0.20	0.24	0.26	0.33	0.37	0.43
WT_750/152x6	2.30	2.30	2.30	2.30	2.30	2.30	2.29	11.3	12.5	14.9	16.1	19.6	22.0	25.6	0.19	0.21	0.25	0.27	0.33	0.37	0.44
WT_750/152x8	2.31	2.31	2.31	2.31	2.30	2.30	2.30	12.9	14.1	16.5	17.7	21.2	23.6	27.2	0.22	0.24	0.28	0.30	0.36	0.40	0.46
WT_750/152x10	2.32	2.32	2.31	2.31	2.31	2.31	2.31	14.5	15.7	18.1	19.3	22.8	25.2	28.7	0.25	0.27	0.31	0.33	0.39	0.43	0.49
WT_750/178x10	2.39	2.39	2.39	2.39	2.39	2.39	2.38	15.7	16.8	19.1	20.2	23.7	26.0	29.4	0.27	0.29	0.33	0.34	0.40	0.44	0.50
WT_750/152x13	2.33	2.33	2.33	2.33	2.32	2.32	2.32	17.7	18.9	21.2	22.4	25.9	28.3	31.8	0.30	0.32	0.36	0.38	0.44	0.48	0.54
WT_750/178x13	2.41	2.40	2.40	2.40	2.40	2.40	2.40	19.3	20.4	22.7	23.8	27.2	29.5	32.9	0.33	0.35	0.39	0.41	0.46	0.50	0.56
WT_750/203x13	2.48	2.48	2.48	2.48	2.48	2.47	2.47	20.7	21.8	24.0	25.1	28.4	30.7	34.0	0.35	0.37	0.41	0.43	0.48	0.52	0.58
WT_750/152x19	2.35	2.35	2.35	2.35	2.35	2.35	2.35	24.0	25.1	27.5	28.6	32.1	34.5	38.0	0.41	0.43	0.47	0.49	0.55	0.59	0.65
WT_750/203x16	2.49	2.49	2.49	2.49	2.49	2.49	2.48	24.7	25.8	28.0	29.1	32.4	34.6	37.9	0.42	0.44	0.48	0.49	0.55	0.59	0.65
WT_750/203x19	2.51	2.51	2.50	2.50	2.50	2.50	2.50	28.6	29.7	31.9	33.0	36.2	38.4	41.7	0.49	0.51	0.54	0.56	0.62	0.65	0.71
WT_750/254x19	2.66	2.66	2.66	2.66	2.65	2.65	2.65	32.7	33.7	35.8	36.8	39.9	42.0	45.1	0.56	0.57	0.61	0.63	0.68	0.71	0.77
WT_750/203x25	2.53	2.53	2.53	2.53	2.53	2.53	2.52	36.3	37.4	39.5	40.6	43.9	46.1	49.3	0.62	0.64	0.67	0.69	0.75	0.78	0.84
WT_750/254x25	2.68	2.68	2.68	2.68	2.68	2.68	2.68	41.8	42.8	44.9	45.9	49.0	51.0	54.1	0.71	0.73	0.76	0.78	0.83	0.87	0.92
WT_750/279x25	2.76	2.76	2.76	2.76	2.76	2.75	2.75	44.3	45.3	47.3	48.3	51.3	53.3	56.3	0.75	0.77	0.81	0.82	0.87	0.91	0.96
WT_750/305x25	2.84	2.84	2.83	2.83	2.83	2.83	2.83	46.7	47.6	49.6	50.6	53.5	55.4	58.4	0.80	0.81	0.84	0.86	0.91	0.94	0.99
WT_750/254x32	2.71	2.71	2.71	2.71	2.70	2.70	2.70	50.7	51.7	53.8	54.8	57.9	59.9	63.0	0.86	0.88	0.92	0.93	0.99	1.02	1.07
WT_750/330x25	2.91	2.91	2.91	2.91	2.91	2.91	2.90	48.9	49.9	51.8	52.7	55.6	57.5	60.3	0.83	0.85	0.88	0.90	0.95	0.98	1.03
WT_750/356x25	2.99	2.99	2.99	2.99	2.98	2.98	2.98	51.1	52.0	53.8	54.8	57.5	59.4	62.2	0.87	0.89	0.92	0.93	0.98	1.01	1.06
WT_750/305x32	2.86	2.86	2.86	2.86	2.86	2.86	2.85	56.9	57.8	59.8	60.7	63.6	65.6	68.5	0.97	0.99	1.02	1.03	1.08	1.12	1.17
WT_750/406x25	3.14	3.14	3.14	3.14	3.14	3.13	3.13	55.0	55.9	57.7	58.6	61.2	63.0	65.6	0.94	0.95	0.98	1.00	1.04	1.07	1.12
WT_750/356x32	3.01	3.01	3.01	3.01	3.01	3.01	3.01	62.4	63.3	65.2	66.1	68.8	70.7	73.4	1.06	1.08	1.11	1.13	1.17	1.20	1.25
WT_750/406x32	3.17	3.17	3.16	3.16	3.16	3.16	3.16	67.4	68.3	70.0	70.9	73.5	75.3	77.9	1.15	1.16	1.19	1.21	1.25	1.28	1.33
WT_750/450x32	3.30	3.30	3.30	3.29	3.29	3.29	3.29	71.3	72.2	73.8	74.7	77.2	78.9	81.4	1.21	1.23	1.26	1.27	1.31	1.34	1.39





Highlight W/D < 0.37 lb/ft / in
 Highlight M/D < 23.00 kg/m / m

SIN Beam M/D for ULC

Surf Area = 3 * W_{Flange} + 4 * T_{Flange} + 2 * D_{Web} * 1.216 - 2 * T_{web}
 The 1.216 factor is to account for the sinusoidal shape of the web

Designation	Surface Area (m ²) per metre length less top flange							Metric M/D Ratio (kg/m / m)							Imperial W/D Ratio (lb/ft / in)						
	WTO	WTA	WTB	WTC	WTF	WTH	WTK	WTO	WTA	WTB	WTC	WTF	WTH	WTK	WTO	WTA	WTB	WTC	WTF	WTH	WTK
a	b	c	d	e	Column1	Column2	Column3	f	g	h	i	Column4	Column5	Column6	Column7	Column8	Column9	Column10	Column11	Column12	s
WT_900/127x6	2.59	2.59	2.59	2.59	2.59	2.59	2.58	9.9	11.2	13.7	15.0	18.8	21.3	25.1	0.17	0.19	0.23	0.25	0.32	0.36	0.43
WT_900/152x6	2.67	2.67	2.67	2.67	2.66	2.66	2.66	10.6	11.8	14.3	15.5	19.2	21.6	25.3	0.18	0.20	0.24	0.26	0.33	0.37	0.43
WT_900/152x8	2.67	2.67	2.67	2.67	2.67	2.67	2.67	12.0	13.2	15.6	16.9	20.6	23.0	26.7	0.20	0.22	0.27	0.29	0.35	0.39	0.45
WT_900/152x10	2.68	2.68	2.68	2.68	2.68	2.67	2.67	13.4	14.6	17.0	18.3	21.9	24.4	28.1	0.23	0.25	0.29	0.31	0.37	0.42	0.48
WT_900/178x10	2.76	2.76	2.75	2.75	2.75	2.75	2.75	14.4	15.6	17.9	19.1	22.7	25.1	28.7	0.24	0.27	0.31	0.33	0.39	0.43	0.49
WT_900/152x13	2.69	2.69	2.69	2.69	2.69	2.69	2.68	16.1	17.3	19.8	21.0	24.6	27.1	30.8	0.27	0.30	0.34	0.36	0.42	0.46	0.52
WT_900/178x13	2.77	2.77	2.77	2.77	2.76	2.76	2.76	17.5	18.7	21.1	22.2	25.8	28.2	31.7	0.30	0.32	0.36	0.38	0.44	0.48	0.54
WT_900/203x13	2.85	2.85	2.84	2.84	2.84	2.84	2.84	18.8	20.0	22.3	23.4	26.9	29.2	32.7	0.32	0.34	0.38	0.40	0.46	0.50	0.56
WT_900/152x19	2.72	2.72	2.72	2.72	2.71	2.71	2.71	21.6	22.8	25.2	26.4	30.0	32.4	36.1	0.37	0.39	0.43	0.45	0.51	0.55	0.61
WT_900/203x16	2.86	2.86	2.86	2.86	2.85	2.85	2.85	22.3	23.4	25.7	26.9	30.3	32.6	36.1	0.38	0.40	0.44	0.46	0.52	0.56	0.61
WT_900/203x19	2.87	2.87	2.87	2.87	2.87	2.86	2.86	25.7	26.8	29.1	30.3	33.7	36.0	39.5	0.44	0.46	0.50	0.52	0.57	0.61	0.67
WT_900/254x19	3.02	3.02	3.02	3.02	3.02	3.02	3.01	29.4	30.5	32.7	33.8	37.1	39.2	42.5	0.50	0.52	0.56	0.58	0.63	0.67	0.72
WT_900/203x25	2.90	2.90	2.89	2.89	2.89	2.89	2.89	32.5	33.6	35.9	37.0	40.4	42.7	46.1	0.55	0.57	0.61	0.63	0.69	0.73	0.79
WT_900/254x25	3.05	3.05	3.05	3.05	3.04	3.04	3.04	37.5	38.6	40.7	41.8	45.1	47.2	50.5	0.64	0.66	0.69	0.71	0.77	0.80	0.86
WT_900/279x25	3.13	3.12	3.12	3.12	3.12	3.12	3.12	39.8	40.9	43.0	44.0	47.2	49.3	52.5	0.68	0.70	0.73	0.75	0.80	0.84	0.89
WT_900/305x25	3.20	3.20	3.20	3.20	3.20	3.19	3.19	42.0	43.1	45.1	46.2	49.2	51.3	54.4	0.72	0.73	0.77	0.79	0.84	0.87	0.93
WT_900/254x32	3.07	3.07	3.07	3.07	3.07	3.07	3.07	45.4	46.5	48.6	49.7	52.9	55.1	58.3	0.77	0.79	0.83	0.85	0.90	0.94	0.99
WT_900/330x25	3.28	3.28	3.28	3.27	3.27	3.27	3.27	44.2	45.2	47.2	48.2	51.2	53.2	56.2	0.75	0.77	0.80	0.82	0.87	0.91	0.96
WT_900/356x25	3.35	3.35	3.35	3.35	3.35	3.35	3.35	46.2	47.1	49.1	50.1	53.1	55.0	58.0	0.79	0.80	0.84	0.85	0.90	0.94	0.99
WT_900/305x32	3.23	3.23	3.22	3.22	3.22	3.22	3.22	51.1	52.1	54.2	55.2	58.3	60.3	63.4	0.87	0.89	0.92	0.94	0.99	1.03	1.08
WT_900/406x25	3.51	3.51	3.50	3.50	3.50	3.50	3.50	49.9	50.9	52.8	53.7	56.5	58.4	61.3	0.85	0.87	0.90	0.91	0.96	1.00	1.04
WT_900/356x32	3.38	3.38	3.38	3.38	3.37	3.37	3.37	56.3	57.3	59.2	60.2	63.2	65.1	68.1	0.96	0.98	1.01	1.03	1.08	1.11	1.16
WT_900/406x32	3.53	3.53	3.53	3.53	3.53	3.53	3.52	61.1	62.0	63.9	64.8	67.6	69.5	72.3	1.04	1.06	1.09	1.10	1.15	1.18	1.23
WT_900/450x32	3.66	3.66	3.66	3.66	3.66	3.66	3.65	64.8	65.7	67.5	68.4	71.1	73.0	75.7	1.10	1.12	1.15	1.17	1.21	1.24	1.29





Highlight W/D < 0.37 lb/ft / in
 Highlight M/D < 23.00 kg/m / m

SIN Beam M/D for ULC

Surf Area = 3 * W_{Flange} + 4 * T_{Flange} + 2 * D_{Web} * 1.216 - 2 * T_{web}
 The 1.216 factor is to account for the sinusoidal shape of the web

Designation	Surface Area (m ²) per metre length less top flange							Metric M/D Ratio (kg/m / m)							Imperial W/D Ratio (lb/ft / in)						
	WTO	WTA	WTB	WTC	WTF	WTH	WTK	WTO	WTA	WTB	WTC	WTF	WTH	WTK	WTO	WTA	WTB	WTC	WTF	WTH	WTK
a	b	c	d	e	Column1	Column2	Column3	f	g	h	i	Column4	Column5	Column6	Column7	Column8	Column9	Column10	Column11	Column12	s
WT_1000/127x6	2.84	2.83	2.83	2.83	2.83	2.83	2.83	9.6	10.9	13.4	14.7	18.6	21.1	25.0	0.16	0.18	0.23	0.25	0.32	0.36	0.43
WT_1000/152x6	2.91	2.91	2.91	2.91	2.91	2.90	2.90	10.2	11.4	13.9	15.2	18.9	21.4	25.2	0.17	0.19	0.24	0.26	0.32	0.37	0.43
WT_1000/152x8	2.92	2.92	2.92	2.91	2.91	2.91	2.91	11.5	12.7	15.2	16.5	20.2	22.7	26.5	0.20	0.22	0.26	0.28	0.34	0.39	0.45
WT_1000/152x10	2.92	2.92	2.92	2.92	2.92	2.92	2.92	12.8	14.0	16.5	17.7	21.5	24.0	27.7	0.22	0.24	0.28	0.30	0.37	0.41	0.47
WT_1000/178x10	3.00	3.00	3.00	3.00	3.00	2.99	2.99	13.7	14.9	17.3	18.5	22.2	24.6	28.3	0.23	0.25	0.30	0.32	0.38	0.42	0.48
WT_1000/152x13	2.94	2.94	2.93	2.93	2.93	2.93	2.93	15.3	16.5	19.0	20.2	24.0	26.4	30.2	0.26	0.28	0.32	0.34	0.41	0.45	0.51
WT_1000/178x13	3.01	3.01	3.01	3.01	3.01	3.01	3.00	16.6	17.8	20.2	21.4	25.0	27.5	31.1	0.28	0.30	0.34	0.36	0.43	0.47	0.53
WT_1000/203x13	3.09	3.09	3.09	3.09	3.08	3.08	3.08	17.8	19.0	21.3	22.5	26.1	28.4	32.0	0.30	0.32	0.36	0.38	0.44	0.48	0.54
WT_1000/152x19	2.96	2.96	2.96	2.96	2.96	2.96	2.95	20.3	21.5	24.0	25.2	28.9	31.4	35.1	0.35	0.37	0.41	0.43	0.49	0.53	0.60
WT_1000/203x16	3.10	3.10	3.10	3.10	3.10	3.10	3.09	21.0	22.2	24.5	25.7	29.2	31.6	35.1	0.36	0.38	0.42	0.44	0.50	0.54	0.60
WT_1000/203x19	3.11	3.11	3.11	3.11	3.11	3.11	3.11	24.2	25.3	27.7	28.8	32.4	34.7	38.2	0.41	0.43	0.47	0.49	0.55	0.59	0.65
WT_1000/254x19	3.27	3.27	3.26	3.26	3.26	3.26	3.26	27.7	28.8	31.0	32.2	35.5	37.7	41.1	0.47	0.49	0.53	0.55	0.60	0.64	0.70
WT_1000/203x25	3.14	3.14	3.14	3.14	3.13	3.13	3.13	30.4	31.6	33.9	35.1	38.6	40.9	44.4	0.52	0.54	0.58	0.60	0.66	0.70	0.76
WT_1000/254x25	3.29	3.29	3.29	3.29	3.29	3.29	3.28	35.2	36.3	38.5	39.6	42.9	45.2	48.5	0.60	0.62	0.66	0.67	0.73	0.77	0.83
WT_1000/279x25	3.37	3.37	3.37	3.37	3.36	3.36	3.36	37.4	38.5	40.6	41.7	45.0	47.2	50.4	0.64	0.66	0.69	0.71	0.77	0.80	0.86
WT_1000/305x25	3.44	3.44	3.44	3.44	3.44	3.44	3.44	39.5	40.5	42.7	43.7	46.9	49.1	52.2	0.67	0.69	0.73	0.74	0.80	0.84	0.89
WT_1000/254x32	3.32	3.32	3.32	3.31	3.31	3.31	3.31	42.5	43.6	45.8	46.9	50.3	52.5	55.8	0.72	0.74	0.78	0.80	0.86	0.89	0.95
WT_1000/330x25	3.52	3.52	3.52	3.52	3.52	3.51	3.51	41.5	42.5	44.6	45.7	48.8	50.9	54.0	0.71	0.72	0.76	0.78	0.83	0.87	0.92
WT_1000/356x25	3.60	3.60	3.60	3.59	3.59	3.59	3.59	43.4	44.5	46.5	47.5	50.6	52.6	55.7	0.74	0.76	0.79	0.81	0.86	0.90	0.95
WT_1000/305x32	3.47	3.47	3.47	3.47	3.47	3.46	3.46	48.0	49.0	51.1	52.2	55.4	57.5	60.6	0.82	0.83	0.87	0.89	0.94	0.98	1.03
WT_1000/406x25	3.75	3.75	3.75	3.75	3.74	3.74	3.74	47.1	48.1	50.0	51.0	53.9	55.9	58.8	0.80	0.82	0.85	0.87	0.92	0.95	1.00
WT_1000/356x32	3.62	3.62	3.62	3.62	3.62	3.62	3.61	52.9	53.9	56.0	57.0	60.0	62.0	65.1	0.90	0.92	0.95	0.97	1.02	1.06	1.11
WT_1000/406x32	3.78	3.77	3.77	3.77	3.77	3.77	3.77	57.5	58.5	60.4	61.4	64.3	66.3	69.2	0.98	1.00	1.03	1.05	1.10	1.13	1.18
WT_1000/450x32	3.91	3.91	3.90	3.90	3.90	3.90	3.90	61.1	62.1	64.0	64.9	67.7	69.6	72.4	1.04	1.06	1.09	1.11	1.15	1.19	1.23





Highlight W/D < 0.37 lb/ft / in
 Highlight M/D < 23.00 kg/m / m

SIN Beam M/D for ULC

Surf Area = 3 * W_{Flange} + 4 * T_{Flange} + 2 * D_{Web} * 1.216 - 2 * T_{web}
 The 1.216 factor is to account for the sinusoidal shape of the web

Designation	Surface Area (m ²) per metre length less top flange							Metric M/D Ratio (kg/m / m)							Imperial W/D Ratio (lb/ft / in)						
	WTO	WTA	WTB	WTC	WTF	WTH	WTK	WTO	WTA	WTB	WTC	WTF	WTH	WTK	WTO	WTA	WTB	WTC	WTF	WTH	WTK
a	b	c	d	e	Column1	Column2	Column3	f	g	h	i	Column4	Column5	Column6	Column7	Column8	Column9	Column10	Column11	Column12	s
WT_1219/127x6	3.37	3.37	3.37	3.37	3.36	3.36	3.36	9.0	10.3	12.9	14.3	18.2	20.9	24.8	0.15	0.18	0.22	0.24	0.31	0.36	0.42
WT_1219/152x6	3.44	3.44	3.44	3.44	3.44	3.44	3.44	9.5	10.8	13.4	14.7	18.5	21.1	25.0	0.16	0.18	0.23	0.25	0.32	0.36	0.43
WT_1219/152x8	3.45	3.45	3.45	3.45	3.45	3.44	3.44	10.6	11.9	14.5	15.8	19.6	22.2	26.1	0.18	0.20	0.25	0.27	0.33	0.38	0.44
WT_1219/152x10	3.46	3.46	3.46	3.45	3.45	3.45	3.45	11.7	13.0	15.5	16.8	20.7	23.3	27.1	0.20	0.22	0.26	0.29	0.35	0.40	0.46
WT_1219/178x10	3.53	3.53	3.53	3.53	3.53	3.53	3.52	12.5	13.8	16.3	17.5	21.3	23.8	27.6	0.21	0.23	0.28	0.30	0.36	0.41	0.47
WT_1219/152x13	3.47	3.47	3.47	3.47	3.46	3.46	3.46	13.9	15.1	17.7	19.0	22.8	25.4	29.2	0.24	0.26	0.30	0.32	0.39	0.43	0.50
WT_1219/178x13	3.55	3.55	3.54	3.54	3.54	3.54	3.54	15.0	16.2	18.7	20.0	23.7	26.2	30.0	0.26	0.28	0.32	0.34	0.40	0.45	0.51
WT_1219/203x13	3.62	3.62	3.62	3.62	3.62	3.62	3.61	16.1	17.3	19.7	21.0	24.6	27.1	30.8	0.27	0.29	0.34	0.36	0.42	0.46	0.52
WT_1219/152x19	3.50	3.49	3.49	3.49	3.49	3.49	3.49	18.1	19.4	21.9	23.2	27.0	29.5	33.3	0.31	0.33	0.37	0.39	0.46	0.50	0.57
WT_1219/203x16	3.64	3.63	3.63	3.63	3.63	3.63	3.63	18.8	20.0	22.5	23.7	27.3	29.8	33.5	0.32	0.34	0.38	0.40	0.47	0.51	0.57
WT_1219/203x19	3.65	3.65	3.65	3.64	3.64	3.64	3.64	21.5	22.7	25.2	26.4	30.0	32.5	36.1	0.37	0.39	0.43	0.45	0.51	0.55	0.62
WT_1219/254x19	3.80	3.80	3.80	3.80	3.79	3.79	3.79	24.6	25.8	28.1	29.3	32.8	35.2	38.7	0.42	0.44	0.48	0.50	0.56	0.60	0.66
WT_1219/203x25	3.67	3.67	3.67	3.67	3.67	3.67	3.66	26.9	28.1	30.5	31.7	35.3	37.8	41.4	0.46	0.48	0.52	0.54	0.60	0.64	0.71
WT_1219/254x25	3.83	3.82	3.82	3.82	3.82	3.82	3.82	31.1	32.3	34.6	35.7	39.2	41.6	45.1	0.53	0.55	0.59	0.61	0.67	0.71	0.77
WT_1219/279x25	3.90	3.90	3.90	3.90	3.90	3.90	3.89	33.1	34.2	36.5	37.6	41.1	43.4	46.8	0.56	0.58	0.62	0.64	0.70	0.74	0.80
WT_1219/305x25	3.98	3.98	3.98	3.98	3.97	3.97	3.97	35.0	36.1	38.3	39.5	42.8	45.1	48.4	0.60	0.62	0.65	0.67	0.73	0.77	0.82
WT_1219/254x32	3.85	3.85	3.85	3.85	3.85	3.84	3.84	37.5	38.6	40.9	42.1	45.6	47.9	51.4	0.64	0.66	0.70	0.72	0.78	0.82	0.87
WT_1219/330x25	4.05	4.05	4.05	4.05	4.05	4.05	4.05	36.8	37.9	40.1	41.2	44.5	46.7	50.0	0.63	0.65	0.68	0.70	0.76	0.80	0.85
WT_1219/356x25	4.13	4.13	4.13	4.13	4.13	4.12	4.12	38.6	39.7	41.8	42.9	46.2	48.3	51.6	0.66	0.68	0.71	0.73	0.79	0.82	0.88
WT_1219/305x32	4.00	4.00	4.00	4.00	4.00	4.00	3.99	42.4	43.5	45.7	46.8	50.2	52.4	55.7	0.72	0.74	0.78	0.80	0.85	0.89	0.95
WT_1219/406x25	4.28	4.28	4.28	4.28	4.28	4.28	4.27	42.0	43.0	45.1	46.1	49.2	51.3	54.5	0.71	0.73	0.77	0.79	0.84	0.87	0.93
WT_1219/356x32	4.16	4.16	4.15	4.15	4.15	4.15	4.15	46.9	48.0	50.1	51.2	54.4	56.6	59.8	0.80	0.82	0.85	0.87	0.93	0.96	1.02
WT_1219/406x32	4.31	4.31	4.31	4.31	4.30	4.30	4.30	51.1	52.2	54.2	55.3	58.4	60.4	63.6	0.87	0.89	0.92	0.94	0.99	1.03	1.08
WT_1219/450x32	4.44	4.44	4.44	4.44	4.43	4.43	4.43	54.5	55.5	57.5	58.5	61.6	63.6	66.6	0.93	0.95	0.98	1.00	1.05	1.08	1.13





Highlight W/D < 0.37 lb/ft / in
 Highlight M/D < 23.00 kg/m / m

SIN Beam M/D for ULC

Surf Area = 3 * W_{Flange} + 4 * T_{Flange} + 2 * D_{Web} * 1.216 - 2 * T_{web}
 The 1.216 factor is to account for the sinusoidal shape of the web

Designation	Surface Area (m ²) per metre length less top flange							Metric M/D Ratio (kg/m / m)							Imperial W/D Ratio (lb/ft / in)						
	WTO	WTA	WTB	WTC	WTF	WTH	WTK	WTO	WTA	WTB	WTC	WTF	WTH	WTK	WTO	WTA	WTB	WTC	WTF	WTH	WTK
a	b	c	d	e	Column1	Column2	Column3	f	g	h	i	Column4	Column5	Column6	Column7	Column8	Column9	Column10	Column11	Column12	s
WT_1500/127x6	4.05	4.05	4.05	4.05	4.05	4.04	4.04	8.5	9.8	12.5	13.9	17.9	20.6	24.6	0.14	0.17	0.21	0.24	0.30	0.35	0.42
WT_1500/152x6	4.13	4.13	4.13	4.12	4.12	4.12	4.12	9.0	10.3	12.9	14.2	18.2	20.8	24.8	0.15	0.17	0.22	0.24	0.31	0.35	0.42
WT_1500/152x8	4.13	4.13	4.13	4.13	4.13	4.13	4.12	9.9	11.2	13.8	15.1	19.1	21.7	25.7	0.17	0.19	0.24	0.26	0.33	0.37	0.44
WT_1500/152x10	4.14	4.14	4.14	4.14	4.13	4.13	4.13	10.8	12.1	14.7	16.0	20.0	22.6	26.6	0.18	0.21	0.25	0.27	0.34	0.39	0.45
WT_1500/178x10	4.22	4.22	4.21	4.21	4.21	4.21	4.21	11.5	12.8	15.3	16.6	20.5	23.1	27.0	0.20	0.22	0.26	0.28	0.35	0.39	0.46
WT_1500/152x13	4.15	4.15	4.15	4.15	4.15	4.15	4.14	12.6	13.9	16.5	17.8	21.7	24.4	28.3	0.21	0.24	0.28	0.30	0.37	0.42	0.48
WT_1500/178x13	4.23	4.23	4.23	4.23	4.22	4.22	4.22	13.5	14.8	17.4	18.7	22.5	25.1	29.0	0.23	0.25	0.30	0.32	0.38	0.43	0.49
WT_1500/203x13	4.31	4.30	4.30	4.30	4.30	4.30	4.30	14.5	15.7	18.3	19.5	23.3	25.9	29.7	0.25	0.27	0.31	0.33	0.40	0.44	0.51
WT_1500/152x19	4.18	4.18	4.18	4.18	4.17	4.17	4.17	16.1	17.4	20.0	21.3	25.3	27.9	31.8	0.27	0.30	0.34	0.36	0.43	0.47	0.54
WT_1500/203x16	4.32	4.32	4.32	4.32	4.31	4.31	4.31	16.8	18.0	20.5	21.8	25.6	28.1	31.9	0.29	0.31	0.35	0.37	0.44	0.48	0.54
WT_1500/203x19	4.33	4.33	4.33	4.33	4.33	4.32	4.32	19.1	20.3	22.8	24.1	27.9	30.4	34.2	0.32	0.35	0.39	0.41	0.47	0.52	0.58
WT_1500/254x19	4.48	4.48	4.48	4.48	4.48	4.48	4.47	21.8	23.0	25.4	26.7	30.3	32.8	36.4	0.37	0.39	0.43	0.45	0.52	0.56	0.62
WT_1500/203x25	4.36	4.36	4.35	4.35	4.35	4.35	4.35	23.6	24.8	27.3	28.6	32.4	34.9	38.6	0.40	0.42	0.47	0.49	0.55	0.59	0.66
WT_1500/254x25	4.51	4.51	4.51	4.51	4.50	4.50	4.50	27.3	28.5	30.9	32.1	35.8	38.2	41.8	0.46	0.49	0.53	0.55	0.61	0.65	0.71
WT_1500/279x25	4.58	4.58	4.58	4.58	4.58	4.58	4.58	29.0	30.2	32.6	33.8	37.4	39.8	43.4	0.49	0.51	0.56	0.58	0.64	0.68	0.74
WT_1500/305x25	4.66	4.66	4.66	4.66	4.66	4.65	4.65	30.7	31.9	34.3	35.4	39.0	41.3	44.8	0.52	0.54	0.58	0.60	0.66	0.70	0.76
WT_1500/254x32	4.53	4.53	4.53	4.53	4.53	4.53	4.52	32.7	33.9	36.3	37.5	41.2	43.6	47.2	0.56	0.58	0.62	0.64	0.70	0.74	0.80
WT_1500/330x25	4.74	4.74	4.73	4.73	4.73	4.73	4.73	32.4	33.5	35.8	37.0	40.5	42.8	46.2	0.55	0.57	0.61	0.63	0.69	0.73	0.79
WT_1500/356x25	4.81	4.81	4.81	4.81	4.81	4.81	4.80	34.0	35.1	37.4	38.5	41.9	44.2	47.6	0.58	0.60	0.64	0.66	0.71	0.75	0.81
WT_1500/305x32	4.69	4.69	4.68	4.68	4.68	4.68	4.68	37.1	38.2	40.6	41.7	45.2	47.6	51.1	0.63	0.65	0.69	0.71	0.77	0.81	0.87
WT_1500/406x25	4.97	4.97	4.96	4.96	4.96	4.96	4.96	37.0	38.1	40.3	41.4	44.7	46.9	50.2	0.63	0.65	0.69	0.71	0.76	0.80	0.86
WT_1500/356x32	4.84	4.84	4.84	4.84	4.83	4.83	4.83	41.1	42.3	44.5	45.7	49.0	51.3	54.7	0.70	0.72	0.76	0.78	0.84	0.87	0.93
WT_1500/406x32	4.99	4.99	4.99	4.99	4.99	4.98	4.98	44.9	46.0	48.2	49.3	52.6	54.8	58.1	0.77	0.78	0.82	0.84	0.90	0.93	0.99
WT_1500/450x32	5.12	5.12	5.12	5.12	5.12	5.12	5.11	48.0	49.1	51.2	52.3	55.5	57.7	60.9	0.82	0.84	0.87	0.89	0.95	0.98	1.04

