

BarForce® Timber Data Sheet



BarForce Nominal Section	Height		Width		Rebar Quantity	Rebar Size		M.O.R. lb/in ²	Flex. Modulus lb/in ²	Flex. Rigidity lb-in ²	Moment Capacity kip-ft	Max. Length ft	Weight lb/ft
	Inch	mm	Inch	mm		Inch	mm						
8x12BF0F00	7.4	188	11.4	289	0			2,750	306,080	2.77E+08	36.1	24.0	33-36
8x12BF4F08	7.4	188	11.4	289	4	1	25	3,900	400,000	3.62E+08	51.2	24.0	34-37
8x12BF4F10	7.4	188	11.4	289	4	1 1/4	32	5,100	490,000	4.43E+08	66.9	24.0	34-37
8x12BF4F11	7.4	188	11.4	289	4	1 3/8	35	5,870	552,000	5.00E+08	77.0	24.0	34-37
8x12BF4F12	7.4	188	11.4	289	4	1 1/2	38	6,800	645,000	5.84E+08	89.2	24.0	35-38
8x12BF4F13	7.4	188	11.4	289	4	1 5/8	41	7,600	725,000	6.56E+08	99.7	24.0	35-38
8x12BF4F14	7.4	188	11.4	289	4	1 3/4	44	N/A	N/A	N/A	N/A	24.0	35-38
12x8BF0F00	11.4	289	7.4	188	0			2,750	128,500	4.92E+07	23.4	24.0	33-36
12x8BF4F08	11.4	289	7.4	188	4	1	25	3,900	280,000	1.07E+08	33.2	24.0	34-37
12x8BF4F10	11.4	289	7.4	188	4	1 1/4	32	4,300	300,000	1.15E+08	36.6	24.0	34-37
12x8BF4F11	11.4	289	7.4	188	4	1 3/8	35	4,892	341,000	1.31E+08	41.6	24.0	34-37
12x8BF4F12	11.4	289	7.4	188	4	1 1/2	38	5,600	390,000	1.49E+08	47.6	24.0	35-38
12x8BF4F13	11.4	289	7.4	188	4	1 5/8	41	6,200	430,000	1.65E+08	52.7	24.0	35-38
12x8BF4F14	11.4	289	7.4	188	4	1 3/4	44	N/A	N/A	N/A	N/A	24.0	35-38
10x10BF0F00	9.8	248	9.8	248	0			2,700	159,000	1.18E+08	34.3	40.0	33-40
10x10BF4F08	9.8	248	9.8	248	4	1	25	3,704	353,100	2.62E+08	47.0	40.0	34-41
10x10BF4F10	9.8	248	9.8	248	4	1 1/4	32	4,872	477,100	3.54E+08	61.8	40.0	34-42
10x10BF4F11	9.8	248	9.8	248	4	1 3/8	35	5,140	495,000	3.67E+08	65.2	40.0	35-42
10x10BF4F12	9.8	248	9.8	248	4	1 1/2	38	5,400	530,000	3.93E+08	68.5	40.0	35-43
10x10BF4F13	9.8	248	9.8	248	4	1 5/8	41	8,810	550,000	4.08E+08	111.8	40.0	36-44
10x10BF4F14	9.8	248	9.8	248	4	1 3/4	44	N/A	N/A	N/A	N/A	40.0	37-45
10x12BF0F00	9.8	248	11.8	298	0			2,750	306,080	4.01E+08	51.1	24.0	41-49
10x12BF4F08	9.8	248	11.8	298	4	1	25	3,500	340,000	4.46E+08	65.1	24.0	42-50
10x12BF4F10	9.8	248	11.8	298	4	1 1/4	32	4,140	405,500	5.32E+08	77.0	24.0	43-51
10x12BF4F13	9.8	248	11.8	298	4	1 5/8	41	4,900	490,000	6.42E+08	91.1	24.0	43-51
12x10BF0F00	11.8	298	9.8	248	0			2,750	211,100	1.91E+08	42.4	24.0	41-49
12x10BF4F08	11.8	298	9.8	248	4	1	25	3,400	330,000	2.98E+08	52.5	24.0	42-50
12x10BF4F10	11.8	298	9.8	248	4	1 1/4	32	3,900	380,000	3.43E+08	60.2	24.0	43-51
12x10BF4F13	11.8	298	9.8	248	4	1 5/8	41	4,500	460,000	4.15E+08	69.4	24.0	43-51
12x12BF0F00	11.8	298	11.8	298	0			2,600	155,000	2.45E+08	58.3	40.0	42-51
12x12BF4F08	11.8	298	11.8	298	4	1	25	2,815	274,000	4.33E+08	63.1	40.0	43-52
12x12BF4F10	11.8	298	11.8	298	4	1 1/4	32	3,702	360,450	5.70E+08	83.0	40.0	44-52
12x12BF4F11	11.8	298	11.8	298	4	1 3/8	35	4,100	375,000	5.93E+08	92.0	40.0	45-53
12x12BF4F12	11.8	298	11.8	298	4	1 1/2	38	4,400	405,000	6.40E+08	98.7	40.0	46-53
12x12BF4F13	11.8	298	11.8	298	4	1 5/8	41	4,900	450,000	7.12E+08	109.9	40.0	46-54

All flexural values are ultimate. Load and resistance factors (LRFD) or safety factors (ASD) must be applied to these values.
 Section dimensions are target values based upon anticipated HDPE compound shrink rates. Dimensions will vary with temperature.
 M.O.R. = modulus of rupture = flexural strength.
 Some values for intermediate configurations have been calculated.
 Some shapes may require a tooling charge to equip molds to accept rebar.