

HYNE Beam 18 Source data from Hyne & Son Pty Ltd

Product Name	Section Depth (mm)	Section Width (mm)	Section Weight (kg/m)	Cross Sectional Area (mm <sup>2</sup> )	Shear Area (mm <sup>2</sup> )	Bending Stiffness EI <sub>xx</sub> (kN.m <sup>2</sup> )	Bending Stiffness EI <sub>yy</sub> (kN.m <sup>2</sup> )	Torsional Rigidity GJ (kN.m <sup>2</sup> )	Bending Stress f' <sub>b</sub> (MPa)	Shear Stress f' <sub>s</sub> (MPa)	Tension Stress f' <sub>t</sub> (MPa)	Compr'n Stress f' <sub>c</sub> (MPa)	Selection Ratio
120x65	120	65	5.8	7800	5200	173.2	50.8	8.9	45.0	5.0	25.0	45.0	6
155x65	155	65	7.6	10075	6717	373.2	65.6	12.8	45.0	5.0	25.0	45.0	8
185x65	185	65	9.0	12025	8017	634.5	78.3	16.2	45.0	5.0	25.0	45.0	9
215x65	215	65	10.5	13975	9317	995.9	91.0	19.6	45.0	5.0	25.0	45.0	10
240x65	240	65	11.7	15925	10617	1473.7	103.7	23.0	45.0	5.0	25.0	45.0	12
270x65	270	65	13.2	17550	11700	1972.4	114.3	25.8	45.0	5.0	25.0	45.0	13
300x65	300	65	14.6	19500	13000	2705.6	127.0	29.2	45.0	5.0	25.0	45.0	15
330x65	330	65	16.1	21450	14300	3601.2	139.7	32.5	45.0	5.0	25.0	45.0	16
360x65	360	65	17.6	23400	15600	4675.3	152.4	35.9	45.0	5.0	25.0	45.0	18
390x65	390	65	19.0	25350	16900	5944.3	165.1	39.3	45.0	5.0	25.0	45.0	19
420x65	420	65	20.5	27300	18200	7424.2	177.8	42.7	45.0	5.0	25.0	45.0	20
120x85	120	85	7.7	10200	6800	226.4	113.6	16.7	45.0	5.0	25.0	45.0	8
155x85	155	85	9.9	13175	8783	488.0	146.8	25.5	45.0	5.0	25.0	45.0	10
185x85	185	85	11.8	15725	10483	829.7	175.2	33.1	45.0	5.0	25.0	45.0	12
215x85	215	85	13.7	18275	12183	1302.3	203.6	40.7	45.0	5.0	25.0	45.0	14
240x85	240	85	15.3	20825	13883	1927.1	232.0	48.2	45.0	5.0	25.0	45.0	16
270x85	270	85	17.2	22950	15300	2579.3	255.6	54.5	45.0	5.0	25.0	45.0	17
300x85	300	85	19.1	25500	17000	3538.1	284.0	62.1	45.0	5.0	25.0	45.0	19
330x85	330	85	21.0	28050	18700	4709.2	312.4	69.6	45.0	5.0	25.0	45.0	21
360x85	360	85	22.9	30600	20400	6113.9	340.8	77.2	45.0	5.0	25.0	45.0	23
390x85	390	85	24.9	33150	22100	7773.3	369.2	84.7	45.0	5.0	25.0	45.0	25
420x85	420	85	26.8	35700	23800	9708.6	397.6	92.3	45.0	5.0	25.0	45.0	27
450x85	450	85	28.7	38250	25500	11941.2	426.0	99.8	45.0	5.0	25.0	45.0	29
480x85	480	85	30.6	40800	27200	14492.2	454.5	107.4	45.0	5.0	25.0	45.0	31
510x85	510	85	32.5	43350	28900	17382.8	482.9	114.9	45.0	5.0	25.0	45.0	33
540x85	540	85	34.4	45900	30600	20634.3	511.3	122.5	45.0	5.0	25.0	45.0	34
570x85	570	85	36.3	48450	32300	24268.0	539.7	130.0	45.0	5.0	25.0	45.0	36
600x85	600	85	38.3	51000	34000	28305.0	568.1	137.6	45.0	5.0	25.0	45.0	38
120x130	120	130	11.7	16200	10800	359.6	455.2	35.3	45.0	5.0	25.0	45.0	12
155x130	155	130	15.1	20925	13950	775.0	587.9	70.6	45.0	5.0	25.0	45.0	15
185x130	185	130	18.0	24975	16650	1317.8	701.7	100.8	45.0	5.0	25.0	45.0	18
215x130	215	130	21.0	29025	19350	2068.4	815.5	131.1	45.0	5.0	25.0	45.0	21
240x130	240	130	23.4	33075	22050	3060.7	929.3	161.4	45.0	5.0	25.0	45.0	24
270x130	270	130	26.3	36450	24300	4096.5	1024.1	186.6	45.0	5.0	25.0	45.0	26
300x130	300	130	29.3	40500	27000	5619.4	1137.9	216.8	45.0	5.0	25.0	45.0	29
330x130	330	130	32.2	44550	29700	7479.4	1251.7	247.1	45.0	5.0	25.0	45.0	32
360x130	360	130	35.1	48600	32400	9710.3	1365.5	277.4	45.0	5.0	25.0	45.0	35
390x130	390	130	38.0	52650	35100	12345.8	1479.3	307.6	45.0	5.0	25.0	45.0	38
420x130	420	130	41.0	56700	37800	15419.6	1593.1	337.9	45.0	5.0	25.0	45.0	41
450x130	450	130	43.9	60750	40500	18965.4	1706.9	368.1	45.0	5.0	25.0	45.0	44
480x130	480	130	46.8	64800	43200	23017.0	1820.7	398.4	45.0	5.0	25.0	45.0	47
510x130	510	130	49.7	68850	45900	27608.0	1934.5	428.7	45.0	5.0	25.0	45.0	50
540x130	540	130	52.6	72900	48600	32772.2	2048.3	458.9	45.0	5.0	25.0	45.0	53
570x130	570	130	55.6	76950	51300	38543.3	2162.1	489.2	45.0	5.0	25.0	45.0	56
600x130	600	130	58.5	81000	54000	44955.0	2275.8	519.5	45.0	5.0	25.0	45.0	58

Strength Group	Joint Group	Seasoned	Timber Engineering Properties						Treatment Details			
			Creep Factor j <sub>2</sub>	Durability	Elasticity E (MPa)	Rigidity G (MPa)	Bearing Parallel f' <sub>l</sub> (MPa)	Bearing Perpend'r f' <sub>p</sub> (MPa)	Shear @Joints f' <sub>sj</sub> (MPa)	Tension Perp'r f' <sub>tp</sub> (MPa)	List of Treatments Available	Standard Treatment Level
SD3	JD3	Yes	1.5	4	18500	1230	59.0	19.0	7.3	0.6		None

Product Type	Lamination Thickness (mm)	Camber Radius (m)
HYNE Beam 18	30	600

Note: All engineering properties and structural design values are in accordance with AS1720.1-2010