

HYNE Beam 21 Source data from Hyne & Son Pty Ltd

Product Name	Section Depth (mm)	Section Width (mm)	Section Weight (kg/m)	Cross Sectional Area (mm ²)	Shear Area (mm ²)	Bending Stiffness EI _{xx} (kN.m ²)	Bending Stiffness EI _{yy} (kN.m ²)	Torsional Rigidity GJ (kN.m ²)	Bending Stress f' _b (MPa)	Shear Stress f' _s (MPa)	Tension Stress f' _t (MPa)	Compr'n Stress f' _c (MPa)	Selection Ratio
120x65	120	65	7.8	7800	5200	196.6	57.7	10.1	50.0	5.0	25.0	50.0	8
155x65	155	65	10.1	10075	6717	423.6	74.5	14.6	50.0	5.0	25.0	50.0	10
185x65	185	65	12.0	12025	8017	720.2	88.9	18.5	50.0	5.0	25.0	50.0	12
215x65	215	65	14.0	13975	9317	1130.5	103.3	22.3	50.0	5.0	25.0	50.0	14
240x65	240	65	15.6	15925	10617	1672.8	117.7	26.2	50.0	5.0	25.0	50.0	16
280x65	280	65	18.2	18200	12133	2497.0	134.6	30.6	50.0	5.0	25.0	50.0	18
300x65	300	65	19.5	19500	13000	3071.3	144.2	33.2	50.0	5.0	25.0	50.0	20
315x65	315	65	20.5	20475	13650	3555.4	151.4	35.1	50.0	5.0	25.0	50.0	20
350x65	350	65	22.8	22750	15167	4877.0	168.2	39.6	50.0	5.0	25.0	50.0	23
380x65	380	65	24.7	24700	16467	6241.7	182.6	43.5	50.0	5.0	25.0	50.0	25
410x65	410	65	26.6	26650	17767	7839.8	197.0	47.3	50.0	5.0	25.0	50.0	27
120x85	120	85	10.2	10200	6800	257.0	129.0	19.0	50.0	5.0	25.0	50.0	10
155x85	155	85	13.2	13175	8783	553.9	166.6	29.1	50.0	5.0	25.0	50.0	13
185x85	185	85	15.7	15725	10483	941.8	198.8	37.7	50.0	5.0	25.0	50.0	16
215x85	215	85	18.3	18275	12183	1478.3	231.1	46.3	50.0	5.0	25.0	50.0	18
240x85	240	85	20.4	20825	13883	2187.5	263.3	54.9	50.0	5.0	25.0	50.0	21
280x85	280	85	23.8	23800	15867	3265.4	300.9	64.9	50.0	5.0	25.0	50.0	24
300x85	300	85	25.5	25500	17000	4016.3	322.4	70.6	50.0	5.0	25.0	50.0	26
315x85	315	85	26.8	26775	17850	4649.3	338.5	74.9	50.0	5.0	25.0	50.0	27
350x85	350	85	29.8	29750	19833	6377.7	376.2	85.0	50.0	5.0	25.0	50.0	30
380x85	380	85	32.3	32300	21533	8162.2	408.4	93.6	50.0	5.0	25.0	50.0	32
410x85	410	85	34.9	34850	23233	10252.0	440.6	102.2	50.0	5.0	25.0	50.0	35
445x85	445	85	37.8	37825	25217	13108.0	478.2	112.2	50.0	5.0	25.0	50.0	38
475x85	475	85	40.4	40375	26917	15941.8	510.5	120.8	50.0	5.0	25.0	50.0	40
505x85	505	85	42.9	42925	28617	19157.2	542.7	129.4	50.0	5.0	25.0	50.0	43
535x85	535	85	45.5	45475	30317	22778.1	575.0	138.0	50.0	5.0	25.0	50.0	45
570x85	570	85	48.5	48450	32300	27547.5	612.6	148.0	50.0	5.0	25.0	50.0	48
600x85	600	85	51.0	51000	34000	32130.0	644.8	156.6	50.0	5.0	25.0	50.0	51

Strength Group	Joint Group	Seasoned	Timber Engineering Properties						Treatment Details			
			Creep Factor j ₂	Durability	Elasticity E (MPa)	Rigidity G (MPa)	Bearing Parallel f' _l (MPa)	Bearing Perpend'r f' _p (MPa)	Shear @Joints f' _s _j (MPa)	Tension Perp'r f' _t _p (MPa)	List of Treatments Levels Available	Standard Treatment Level
SD2	JD2	Yes	1.5	2	21000	1400	67.0	23.0	8.4	0.8		None

Product Type	Lamination Thickness (mm)	Camber Radius (m)
HYNE Beam 21	32	600

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