

TABLE 5m Portal Frame Spacings, C200mm "C" Section
TABLE 5m 8.A-22.5deg: Wind Region A, TC2, TC3 & TC4, Maximum Wind Speed = 40.95 m/s

Note: 5m portal frame spacings require back to back C section portal frames.

Importance Level: 2 Exceedance Probability: 1:500 Regional Wind Speed:45 m/s Wind Direction Multiplier:1.0 Terrain Height Multiplier:0.91 Shielding Multiplier:1.0 Topography Multiplier:1.0 Snow Load: NA

Unique Variables:

Bracket Set	Back to back portal frames require 2 sets of: 8" (200mm)	Bracket Set	Back to back portal frames require 2 sets of: 8" (200mm)
C Section	2x C20019	C Section	2x C20024
Mullions	C20019	Mullions	C20024
Top Hat Roof Battens & Wall Girts	2x TH75120 or 1x TH120075	Top Hat Roof Battens & Wall Girts	2x TH75120 or 1x TH120075
Bracing/Header	2x C10019, Apex Brace: 3100mm / Haunch Brace: 1600mm	Bracing/Header	2x C10019, Apex Brace: 3100mm / Haunch Brace: 1600mm
Max Portal Spacing	5000mm	Max Portal Spacing	5000mm
Minimum Shed Length	6000mm (3 portal Frames)	Minimum Shed Length	6000mm (3 portal Frames)
Max Mullion Spacing	5000mm	Max Mullion Spacing	5000mm
Top Hat Batten Spacing	1200mm internal, 900mm ends, maximum centres	Top Hat Batten Spacing	1200mm internal, 900mm ends, maximum centres
Wall Girt Spacing	1500mm, maximum centres	Wall Girt Spacing	1500mm, maximum centres
Slab/Strip Footing	400mm wide x 400mm deep 25 Mpa, L8TM4 T&B	Slab/Strip Footing	400mm wide x 400mm deep 25 Mpa, L8TM4 T&B
Pad Footing	900mm diameter, 800mm deep 25MPa, SL82 T&B	Pad Footing	900mm diameter, 800mm deep 25MPa, SL82 T&B
Mullion Footing	600mm diameter, 350mm deep 25MPa, SL82 T&B	Mullion Footing	600mm diameter, 350mm deep 25MPa, SL82 T&B

Common Variables:

Wind Bracing	M12 4.6/s Y BRACING ROD Or 2 Nos. 32x1.2mm G300 STEEL GRADE STRAP BRACE	Bracing/Structural Laps	14g-10x25mm Hex Head SDS Class 4 qty:4 per lap	Bracket Assembly Bolts	M16x40mm 8.8 grade structural bolt assembly, galvanised
Roof Cladding	Custom Orb BMT=0.42	Top Hat and Girts	14g-10x25mm Hex Head SDS Class 4 qty:4 per join	Bracing/Header Bolts	M12x30mm 8.8 grade structural bolt assembly, galvanised
Wall Cladding	Trimdeck BMT=0.42	Roof Cladding	12g-14x45mm Roof Screw Class 4 qty:4 per sheet per batten	Footing Plate Bolts	M16x105mm Claw Wedge Masonary Anchor, galvanised
		Wall Cladding	14g-10x25mm Hex Head Needle Point Class 4 qty:4 per sheet per girl		

Governing Factors:

Minimum wall height	1800mm	Note 1	All dimensions in mm
Maximum average height	5000mm	Note 2	T&B = Top and Bottom
Maximum shed length	99000mm	Note 3	Suitable for lesser wind speeds

Conditions:

- 1 Does not apply for construction to withstand snow load.
- 2 Does not apply for construction on the edge of a water body
- 3 Does not apply for construction on the peak of a hill
- 4 Does not apply for construction of higher importance level
- 5 The site wind speed should not exceed the specified wind speed in the table.
- 6 30% of walls must have wind bracing
- 7 30% of roof must have wind bracing

22.5° Bracket Set, Wall Height in mm

Shed Apex Height	6250	5629	5577	5525	5473	5422	5370	5318	5266	5214	5163	5111	5059	5007	4956	4904	4852	4800	4748	4697	4645	4593	4541	4490	4438	4386	4334	4282	4231	4179	4127	4075	4024	3972	3920	3868	3816	3765	3713	3661	3609	3558	3506	3454	3402
	6000	5379	5327	5275	5223	5172	5120	5068	5016	4964	4913	4861	4809	4757	4706	4654	4602	4550	4498	4447	4395	4343	4291	4240	4188	4136	4084	4032	3981	3929	3877	3825	3774	3722	3670	3618	3566	3515	3463	3411	3359	3308	3256	3204	3152
	5750	5129	5077	5025	4973	4922	4870	4818	4766	4714	4663	4611	4559	4507	4456	4404	4352	4300	4248	4197	4145	4093	4041	3990	3938	3886	3834	3782	3731	3679	3627	3575	3524	3472	3420	3368	3316	3265	3213	3161	3109	3058	3006	2954	2902
	5500	4879	4827	4775	4723	4672	4620	4568	4516	4464	4413	4361	4309	4257	4206	4154	4102	4050	3998	3947	3895	3843	3791	3740	3688	3636	3584	3532	3481	3429	3377	3325	3274	3222	3170	3118	3066	3015	2963	2911	2859	2808	2756	2704	2652
	5250	4629	4577	4525	4473	4422	4370	4318	4266	4214	4163	4111	4059	4007	3956	3904	3852	3800	3748	3697	3645	3593	3541	3490	3438	3386	3334	3282	3231	3179	3127	3075	3024	2972	2920	2868	2816	2765	2713	2661	2609	2558	2506	2454	2402
	5000	4379	4327	4275	4223	4172	4120	4068	4016	3964	3913	3861	3809	3757	3706	3654	3602	3550	3498	3447	3395	3343	3291	3240	3188	3136	3084	3032	2981	2929	2877	2825	2774	2722	2670	2618	2566	2515	2463	2411	2359	2308	2256	2204	2152
	4750	4129	4077	4025	3973	3922	3870	3818	3766	3714	3663	3611	3559	3507	3456	3404	3352	3300	3248	3197	3145	3093	3041	2990	2938	2886	2834	2782	2731	2679	2627	2575	2524	2472	2420	2368	2316	2265	2213	2161	2109	2058	2006	1954	1902
	4500	3879	3827	3775	3723	3672	3620	3568	3516	3464	3413	3361	3309	3257	3206	3154	3102	3050	2998	2947	2895	2843	2791	2740	2688	2636	2584	2532	2481	2429	2377	2325	2274	2222	2170	2118	2066	2015	1963	1911	1859	1808	1756	1704	1652
	4250	3629	3577	3525	3473	3422	3370	3318	3266	3214	3163	3111	3059	3007	2956	2904	2852	2800	2748	2697	2645	2593	2541	2490	2438	2386	2334	2282	2231	2179	2127	2075	2024	1972	1920	1868	1816	1765	1713	1661	1609	1558	1506	1454	1402
	4000	3379	3327	3275	3223	3172	3120	3068	3016	2964	2913	2861	2809	2757	2706	2654	2602	2550	2498	2447	2395	2343	2291	2240	2188	2136	2084	2032	1981	1929	1877	1825	1774	1722	1670	1618	1566	1515	1463	1411	1359	1308	1256	1204	1152
	3750	3129	3077	3025	2973	2922	2870	2818	2766	2714	2663	2611	2559	2507	2456	2404	2352	2300	2248	2197	2145	2093	2041	1990	1938	1886	1834	1782	1731	1679	1627	1575	1524	1472	1420	1368	1316	1265	1213	1161	1109	1058	1006	954	902
	3500	2879	2827	2775	2723	2672	2620	2568	2516	2464	2413	2361	2309	2257	2206	2154	2102	2050	1998	1947	1895	1843	1791	1740	1688	1636	1584	1532	1481	1429	1377	1325	1274	1222	1170	1118	1066	1015	963	911	859	808	756	704	652
	3250	2629	2577	2525	2473	2422	2370	2318	2266	2214	2163	2111	2059	2007	1956	1904	1852	1800	1748	1697	1645	1593	1541	1490	1438	1386	1334	1282	1231	1179	1127	1075	1024	972	920	868	816	765	713	661	609	558	506	454	402
	3000	2379	2327	2275	2223	2172	2120	2068	2016	1964	1913	1861	1809	1757	1706	1654	1602	1550	1498	1447	1395	1343	1291	1240	1188	1136	1084	1032	981	929	877	825	774	722	670	618	566	515	463	411	359	308	256	204	152
	2750	2129	2077	2025	1973	1922	1870	1818	1766	1714	1663	1611	1559	1507	1456	1404	1352	1300	1248	1197	1145	1093	1041	990	938	886	834	782	731	679	627	575	524	472	420	368	316	265	213	161	109	58	6	-46	-98
	2500	1879	1827	1775	1723	1672	1620	1568	1516	1464	1413	1361	1309	1257	1206	1154	1102	1050	998	947	895	843	791	740	688	636	584	532	481	429	377	325	274	222	170	118	66	15	-37	-89	-141	-192	-244	-296	-348
2250	1629	1577	1525	1473	1422	1370	1318	1266	1214	1163	1111	1059	1007	956	904	852	800	748	697	645	593	541	490	438	386	334	282	231	179	127	75	24	-28	-80	-132	-184	-235	-287	-339	-391	-442	-494	-546	-598	
2000	1379	1327	1275	1223	1172	1120	1068	1016	964	913	861	809	757	706	654	602	550	498	447	395	343	291	240	188	136	84	32	-19	-71	-123	-175	-226	-278	-330	-382	-434	-485	-537	-589	-641	-692	-744	-796	-848	
0	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	6000	6250	6500	6750	7000	7250	7500	7750	8000	8250	8500	8750	9000	9250	9500	9750	10000	10250	10500	10750	11000	11250	11500	11750	12000	12250	12500	12750	13000	13250	13500	13750	