TABLE 3.5m Portal Frame Spacings, C200mm & C250mm "C" Section

TABLE 8.A-15deg: Wind Region A, TC2, TC3 & TC4, Maximum Wind Speed = 40.95 m/s

Note: 3.5m portal frame spacings require 4mm thick brackets.

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	8" (200mm), 4mm thick.
C Section	C20024
Mullions	C20024
Top Hat Roof Battens & Wall Girts	TH75100
Bracing/Header	C10019, Apex Brace: 3100mm / Haunch Brace: 1600mm
Max Portal Spacing	3500mm
Minimum Shed Length	6000mm (3 portal Frames)
Max Mullion Spacing	5000mm
Top Hat Batten Spacing	1200mm internal, 900mm ends, maximum centres
Wall Girt Spacing	1500mm, maximum centres
Slab/Strip Footing	400mm wide x 400mm deep 25 Mpa, L8TM4 T&B
Pad Footing	600mm diameter, 850mm deep 25MPa, SL82 T&B
Mullion Footing	600mm diameter, 350mm deep 25MPa, SL82 T&B

Bracket Set	8" (200mm), 4mm thick.
C Section	C25024
Mullions	C25024
Top Hat Roof Battens & Wall Girts	TH75100
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Slab/Strip Footing	400mm wide x 400mm deep 25 Mpa, L8TM4 T&B
Pad Footing	600mm diameter, 850mm deep 25MPa, SL82 T&B
Mullion Footing	600mm diameter, 350mm deep 25MPa, SL82 T&B

Common Variables:

Wind Bracing	M12 4.6/s ϒ 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 girt		

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

15° Bracket Set, Wall Height in mm

Shed Apex Height	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
	6250	5848	5815	5781	5748	5714	5681	5647	5614	5580	5547	5513	5480	5446	5413	5379	5346	5312	5279	5245	5212	5178	5145	5111	5078	5044	5011	4977	4944	4910	4877	4843	4810	4776	4743	4709	4676	4642	4609	4575	4542	4508	4475	4441	4408
	6000	5598	5565	5531	5498	5464	5431	5397	5364	5330	5297	5263	5230	5196	5163	5129	5096	5062	5029	4995	4962	4928	4895	4861	4828	4794	4761	4727	4694	4660	4627	4593	4560	4526	4493	4459	4426	4392	4359	4325	4292	4258	4225	4191	4158
	5750	5348	5315	5281	5248	5214	5181	5147	5114	5080	5047	5013	4980	4946	4913	4879	4846	4812	4779	4745	4712	4678	4645	4611	4578	4544	4511	4477	4444	4410	4377	4343	4310	4276	4243	4209	4176	4142	4109	4075	4042	4008	3975	3941	3908
	5500	5098	5065	5031	4998	4964	4931	4897	4864	4830	4797	4763	4730	4696	4663	4629	4596	4562	4529	4495	4462	4428	4395	4361	4328	4294	4261	4227	4194	4160	4127	4093	4060	4026	3993	3959	3926	3892	3859	3825	3792	3758	3725	3691	3658
	5250	4848	4815	4781	4748	4714	4681	4647	4614	4580	4547	4513	4480	4446	4413	4379	4346	4312	4279	4245	4212	4178	4145	4111	4078	4044	4011	3977	3944	3910	3877	3843	3810	3776	3743	3709	3676	3642	3609	3575	3542	3508	3475	3441	3408
	5000	4598	4565	4531	4498	4464	4431	4397	4364	4330	4297	4263	4230	4196	4163	4129	4096	4062	4029	3995	3962	3928	3895	3861	3828	3794	3761	3727	3694	3660	3627	3593	3560	3526	3493	3459	3426	3392	3359	3325	3292	3258	3225	3191	3158
	4750	4348	4315	4281	4248	4214	4181	4147	4114	4080	4047	4013	3980	3946	3913	3879	3846	3812	3779	3745	3712	3678	3645	3611	3578	3544	3511	3477	3444	3410	3377	3343	3310	3276	3243	3209	3176	3142	3109	3075	3042	3008	2975	2941	2908
	4500	4098	4065	4031	3998	3964	3931	3897	3864	3830	3797	3763	3730	3696	3663	3629	3596	3562	3529	3495	3462	3428	3395	3361	3328	3294	3261	3227	3194	3160	3127	3093	3060	3026	2993	2959	2926	2892	2859	2825	2792	2758	2725	2691	2658
	4250	3848	3815	3781	3748	3714	3681	3647	3614	3580	3547	3513	3480	3446	3413	3379	3346	3312	3279	3245	3212	3178	3145	3111	3078	3044	3011	2977	2944	2910	2877	2843	2810	2776	2743	2709	2676	2642	2609	2575	2542	2508	2475	2441	2408
	4000	3598	3565	3531	3498	3464	3431	3397	3364	3330	3297	3263	3230	3196	3163	3129	3096	3062	3029	2995	2962	2928	2895	2861	2828	2794	2761	2727	2694	2660	2627	2593	2560	2526	2493	2459	2426	2392	2359	2325	2292	2258	2225	2191	2158
	3750	3348	3315	3281	3248	3214	3181	3147	3114	3080	3047	3013	2980	2946	2913	2879	2846	2812	2779	2745	2712	2678	2645	2611	2578	2544	2511	2477	2444	2410	2377	2343	2310	2276	2243	2209	2176	2142	2109	2075	2042	2008	1975	1941	1908
	3500	3098	3065	3031	2998	2964	2931	2897	2864	2830	2797	2763	2730	2696	2663	2629	2596	2562	2529	2495	2462	2428	2395	2361	2328	2294	2261	2227	2194	2160	2127	2093	2060	2026	1993	1959	1926	1892	1859	1825	1792	1758	1725	1691	1658
	3250	2848	2815	2781	2748	2714	2681	2647	2614	2580	2547	2513	2480	2446	2413	2379	2346	2312	2279	2245	2212	2178	2145	2111	2078	2044	2011	1977	1944	1910	1877	1843	1810	1776	1743	1709	1676	1642	1609	1575	1542	1508	1475	1441	1408
	3000	2598	2565	2531	2498	2464	2431	2397	2364	2330	2297	2263	2230	2196	2163	2129	2096	2062	2029	1995	1962	1928	1895	1861	1828	1794	1761	1727	1694	1660	1627	1593	1560	1526	1493	1459	1426	1392	1359	1325	1292	1258	1225	1191	1158
	2750	2348	2315	2281	2248	2214	2181	2147	2114	2080	2047	2013	1980	1946	1913	1879	1846	1812	1779	1745	1712	1678	1645	1611	1578	1544	1511	1477	1444	1410	1377	1343	1310	1276	1243	1209	1176	1142	1109	1075	1042	1008	975	941	908
	2500	2098	2065	2031	1998	1964	1931	1897	1864	1830	1797	1763	1730	1696	1663	1629	1596	1562	1529	1495	1462	1428	1395	1361	1328	1294	1261	1227	1194	1160	1127	1093	1060	1026	993	959	926	892	859	825	792	758	725	691	658
	2250	1848	1815	1781	1748	1714	1681	1647	1614	1580	1547	1513	1480	1446	1413	1379	1346	1312	1279	1245	1212	1178	1145	1111	1078	1044	1011	977	944	910	877	843	810	776	743	709	676	642	609	575	542	508	475	441	408
	2000	1598	1565	1531	1498	1464	1431	1397	1364	1330	1297	1263	1230	1196	1163	1129	1096	1062	1029	995	962	928	895	861	828	794	761	727	694	660	627	593	560	526	493	459	426	392	359	325	292	258	225	191	158

Shed Width

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