TABLE 4m Portal Frame Spacings, C200mm "C" Section

TABLE 4m 8.B-11deg: Wind Region B, TC2, TC3 & TC4, Maximum Wind Speed = 51.90 m/s

Note: 4m portal frame spacings require back to back C section portal frames.

Importance Level: 2	Exceedance Probability: 1:500	Regional Wind Speed:57 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)
C Section	2x C20015
Mullions	C20019
Top Hat	TH75120
Bracing/Header	2x C10019, Apex Brace: 3100mm / Haunch Brace: 1600mm
Max Portal Spacing	4000mm
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	750mm diameter, 800mm deep 25MPa, SL82 T&B
Mullion Footing	600mm diameter, 350mm deep 25MPa, SL82 T&B

Bracket Set	Back to back portal frames require 2 sets of: 8" (200mm)
C Section	2x C20019
Mullions	C20024
Top Hat	TH75120
Bracing/Header	2x C10019, Apex Brace: 3100mm / Haunch Brace: 1600mm
Max Portal Spacing	4000mm
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	750mm diameter, 800mm 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.	5	The site wind speed should not exceed the specified wind speed in the table.
2	Does not apply for construction on the edge of a water body	6	30% of walls must have wind bracing
3	Does not apply for construction on the peak of a hill	7	30% of roof must have wind bracing
4	Does not apply for construction of higher importance level		

11° Bracket Set, Wall Height in mm

Shed Apex Height	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	5958	5934	5910	5886	5861	5837	5813	5788	5764	5740	5715	5691	5667	5643	5618	5594	5570	5545	5521	5497	5472	5448	5424	5400	5375	5351	5327	5302	5278	5254	5230	5205	5181	5157	5132	5108	5084	5059	5035	5011	4987	4962	4938	4914
6000	5708	5684	5660	5636	5611	5587	5563	5538	5514	5490	5465	5441	5417	5393	5368	5344	5320	5295	5271	5247	5222	5198	5174	5150	5125	5101	5077	5052	5028	5004	4980	4955	4931	4907	4882	4858	4834	4809	4785	4761	4737	4712	4688	4664
5750	5458	5434	5410	5386	5361	5337	5313	5288	5264	5240	5215	5191	5167	5143	5118	5094	5070	5045	5021	4997	4972	4948	4924	4900	4875	4851	4827	4802	4778	4754	4730	4705	4681	4657	4632	4608	4584	4559	4535	4511	4487	4462	4438	4414
5500	5208	5184	5160	5136	5111	5087	5063	5038	5014	4990	4965	4941	4917	4893	4868	4844	4820	4795	4771	4747	4722	4698	4674	4650	4625	4601	4577	4552	4528	4504	4480	4455	4431	4407	4382	4358	4334	4309	4285	4261	4237	4212	4188	4164
5250	4958	4934	4910	4886	4861	4837	4813	4788	4764	4740	4715	4691	4667	4643	4618	4594	4570	4545	4521	4497	4472	4448	4424	4400	4375	4351	4327	4302	4278	4254	4230	4205	4181	4157	4132	4108	4084	4059	4035	4011	3987	3962	3938	3914
5000	4708	4684	4660	4636	4611	4587	4563	4538	4514	4490	4465	4441	4417	4393	4368	4344	4320	4295	4271	4247	4222	4198	4174	4150	4125	4101	4077	4052	4028	4004	3980	3955	3931	3907	3882	3858	3834	3809	3785	3761	3737	3712	3688	3664
4750	4458	4434	4410	4386	4361	4337	4313	4288	4264	4240	4215	4191	4167	4143	4118	4094	4070	4045	4021	3997	3972	3948	3924	3900	3875	3851	3827	3802	3778	3754	3730	3705	3681	3657	3632	3608	3584	3559	3535	3511	3487	3462	3438	3414
4500	4208	4184	4160	4136	4111	4087	4063	4038	4014	3990	3965	3941	3917	3893	3868	3844	3820	3795	3771	3747	3722	3698	3674	3650	3625	3601	3577	3552	3528	3504	3480	3455	3431	3407	3382	3358	3334	3309	3285	3261	3237	3212	3188	3164
4250	3958	3934	3910	3886	3861	3837	3813	3788	3764	3740	3715	3691	3667	3643	3618	3594	3570	3545	3521	3497	3472	3448	3424	3400	3375	3351	3327	3302	3278	3254	3230	3205	3181	3157	3132	3108	3084	3059	3035	3011	2987	2962	2938	2914
4000	3708	3684	3660	3636	3611	3587	3563	3538	3514	3490	3465	3441	3417	3393	3368	3344	3320	3295	3271	3247	3222	3198	3174	3150	3125	3101	3077	3052	3028	3004	2980	2955	2931	2907	2882	2858	2834	2809	2785	2761	2737	2712	2688	2664
3750	3458	3434	3410	3386	3361	3337	3313	3288	3264	3240	3215	3191	3167	3143	3118	3094	3070	3045	3021	2997	2972	2948	2924	2900	2875	2851	2827	2802	2778	2754	2730	2705	2681	2657	2632	2608	2584	2559	2535	2511	2487	2462	2438	2414
3500	3208	3184	3160	3136	3111	3087	3063	3038	3014	2990	2965	2941	2917	2893	2868	2844	2820	2795	2771	2747	2722	2698	2674	2650	2625	2601	2577	2552	2528	2504	2480	2455	2431	2407	2382	2358	2334	2309	2285	2261	2237	2212	2188	2164
3250	2958	2934	2910	2886	2861	2837	2813	2788	2764	2740	2715	2691	2667	2643	2618	2594	2570	2545	2521	2497	2472	2448	2424	2400	2375	2351	2327	2302	2278	2254	2230	2205	2181	2157	2132	2108	2084	2059	2035	2011	1987	1962	1938	1914
3000	2708	2684	2660	2636	2611	2587	2563	2538	2514	2490	2465	2441	2417	2393	2368	2344	2320	2295	2271	2247	2222	2198	2174	2150	2125	2101	2077	2052	2028	2004	1980	1955	1931	1907	1882	1858	1834	1809	1785	1761	1737	1712	1688	1664
2750	2458	2434	2410	2386	2361	2337	2313	2288	2264	2240	2215	2191	2167	2143	2118	2094	2070	2045	2021	1997	1972	1948	1924	1900	1875	1851	1827	1802	1778	1754	1730	1705	1681	1657	1632	1608	1584	1559	1535	1511	1487	1462	1438	1414
2500	2208	2184	2160	2136	2111	2087	2063	2038	2014	1990	1965	1941	1917	1893	1868	1844	1820	1795	1771	1747	1722	1698	1674	1650	1625	1601	1577	1552	1528	1504	1480	1455	1431	1407	1382	1358	1334	1309	1285	1261	1237	1212	1188	1164
2250	1958	1934	1910	1886	1861	1837	1813	1788	1764	1740	1715	1691	1667	1643	1618	1594	1570	1545	1521	1497	1472	1448	1424	1400	1375	1351	1327	1302	1278	1254	1230	1205	1181	1157	1132	1108	1084	1059	1035	1011	987	962	938	914
2000	1708	1684	1660	1636	1611	1587	1563	1538	1514	1490	1465	1441	1417	1393	1368	1344	1320	1295	1271	1247	1222	1198	1174	1150	1125	1101	1077	1052	1028	1004	980	955	931	907	882	858	834	809	785	761	737	712	688	664
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

Shed Width

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