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

TABLE 4m 8.A-22.5deg: Wind Region A, TC2, TC3 & TC4, Maximum Wind Speed = 40.95 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: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)
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.
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	0	250	500	750	1000	1250	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	6000	6250
6250	3402	3454	3506	3558	3609	3661	3713	3765	3816	3868	3920	3972	4024	4075	4127	4179	4231	4282	4334	4386	4436	4488	4540	4592	4644	4696
6000	3152	3204	3256	3308	3359	3411	3463	3515	3566	3618	3670	3722	3774	3825	3877	3929	3981	4032	4084	4136	4188	4240	4292	4344	4396	4448
5750	2902	2954	3006	3058	3109	3161	3213	3265	3316	3368	3420	3472	3524	3575	3627	3679	3731	3782	3834	3886	3938	3990	4042	4094	4146	4198
5500	2652	2704	2756	2808	2859	2911	2963	3015	3066	3118	3170	3222	3274	3325	3377	3429	3481	3532	3584	3636	3688	3740	3792	3844	3896	3948
5250	2402	2454	2506	2558	2609	2661	2713	2765	2816	2868	2920	2972	3024	3075	3127	3179	3231	3282	3334	3386	3438	3490	3542	3594	3646	3698
5000	2152	2204	2256	2308	2359	2411	2463	2515	2566	2618	2670	2722	2774	2825	2877	2929	2981	3032	3084	3136	3188	3240	3292	3344	3396	3448
4750	1902	1954	2006	2058	2109	2161	2213	2265	2316	2368	2420	2472	2524	2575	2627	2679	2731	2782	2834	2886	2938	2990	3042	3094	3146	3198
4500	1652	1704	1756	1808	1859	1911	1963	2015	2066	2118	2170	2222	2274	2325	2377	2429	2481	2532	2584	2636	2688	2740	2792	2844	2896	2948
4250	1402	1454	1506	1558	1609	1661	1713	1765	1816	1868	1920	1972	2024	2075	2127	2179	2231	2282	2334	2386	2438	2490	2542	2594	2646	2698
4000	1152	1204	1256	1308	1359	1411	1463	1515	1566	1618	1670	1722	1774	1825	1877	1929	1981	2032	2084	2136	2188	2240	2292	2344	2396	2448
3750	902	954	1006	1058	1109	1161	1213	1265	1316	1368	1420	1472	1524	1575	1627	1679	1731	1782	1834	1886	1938	1990	2042	2094	2146	2198
3500	652	704	756	808	859	911	963	1015	1066	1118	1170	1222	1274	1325	1377	1429	1481	1532	1584	1636	1688	1740	1792	1844	1896	1948
3250	402	454	506	558	609	661	713	765	816	868	920	972	1024	1075	1127	1179	1231	1282	1334	1386	1438	1490	1542	1594	1646	1698
3000	152	204	256	308	359	411	463	515	566	618	670	722	774	825	877	929	981	1032	1084	1136	1188	1240	1292	1344	1396	1448
2750	-98	-46	6	58	109	161	213	265	316	368	420	472	524	575	627	679	731	782	834	886	938	990	1042	1094	1146	1198
2500	-348	-296	-244	-192	-141	-89	-37	15	66	118	170	222	274	325	377	429	481	532	584	636	688	740	792	844	896	948
2250	-598	-546	-494	-442	-391	-339	-287	-235	-184	-132	-80	-28	24	75	127	179	231	282	334	386	438	490	542	594	646	698
2000	-848	-796	-744	-692	-641	-589	-537	-485	-434	-382	-330	-278	-226	-175	-123	-71	-19	32	84	136	188	240	292	344	396	448
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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