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

## TABLE 4m 8.A-11deg: 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 |

**11° 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 | 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 |

**Shed Width**

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