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

## TABLE 4m 8.A-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 |
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| 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 | | |

**5° Bracket Set, Wall Height in mm**

| Shed Apex Height | Shed Width | | | | |