TABLE 5m Portal Frame Spacings, C200mm "C" Section

TABLE 5m 8.B-5deg: Wind Region B, TC2, TC3 & TC4, Maximum Wind Speed = 51.90 m/s

Note: 5m 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 C20019
Mullions	C20019
Top Hat Roof Battens & Wall Girts	2x TH75120 or 1x TH120075
Bracing/Header	2x C10019, Apex Brace: 3100mm / Haunch Brace: 1600mm
Max Portal Spacing	5000mm
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	900mm 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 C20024
Mullions	C20024
Top Hat Roof Battens & Wall Girts	2x TH75120 or 1x TH120075
Bracing/Header	2x C10019, Apex Brace: 3100mm / Haunch Brace: 1600mm
Max Portal Spacing	5000mm
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	900mm 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 Ŧ 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

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	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	6119	6108	6097	6086	6075	6064	6053	6042	6031	6020	6009	5998	5988	5977	5966	5955	5944	5933	5922	5911	5900	5889	5878	5867	5856	5845	5834	5823	5813	5802	5791	5780	5769	5758	5747	5736	5725	5714	5703	5692	5681	5670	5659	5649
6000	5869	5858	5847	5836	5825	5814	5803	5792	5781	5770	5759	5748	5738	5727	5716	5705	5694	5683	5672	5661	5650	5639	5628	5617	5606	5595	5584	5573	5563	5552	5541	5530	5519	5508	5497	5486	5475	5464	5453	5442	5431	5420	5409	5399
5750	5619	5608	5597	5586	5575	5564	5553	5542	5531	5520	5509	5498	5488	5477	5466	5455	5444	5433	5422	5411	5400	5389	5378	5367	5356	5345	5334	5323	5313	5302	5291	5280	5269	5258	5247	5236	5225	5214	5203	5192	5181	5170	5159	5149
5500	5369	5358	5347	5336	5325	5314	5303	5292	5281	5270	5259	5248	5238	5227	5216	5205	5194	5183	5172	5161	5150	5139	5128	5117	5106	5095	5084	5073	5063	5052	5041	5030	5019	5008	4997	4986	4975	4964	4953	4942	4931	4920	4909	4899
5250	5119	5108	5097	5086	5075	5064	5053	5042	5031	5020	5009	4998	4988	4977	4966	4955	4944	4933	4922	4911	4900	4889	4878	4867	4856	4845	4834	4823	4813	4802	4791	4780	4769	4758	4747	4736	4725	4714	4703	4692	4681	4670	4659	4649
5000	4869	4858	4847	4836	4825	4814	4803	4792	4781	4770	4759	4748	4738	4727	4716	4705	4694	4683	4672	4661	4650	4639	4628	4617	4606	4595	4584	4573	4563	4552	4541	4530	4519	4508	4497	4486	4475	4464	4453	4442	4431	4420	4409	4399
4750	4619	4608	4597	4586	4575	4564	4553	4542	4531	4520	4509	4498	4488	4477	4466	4455	4444	4433	4422	4411	4400	4389	4378	4367	4356	4345	4334	4323	4313	4302	4291	4280	4269	4258	4247	4236	4225	4214	4203	4192	4181	4170	4159	4149
4500	4369	4358	4347	4336	4325	4314	4303	4292	4281	4270	4259	4248	4238	4227	4216	4205	4194	4183	4172	4161	4150	4139	4128	4117	4106	4095	4084	4073	4063	4052	4041	4030	4019	4008	3997	3986	3975	3964	3953	3942	3931	3920	3909	3899
4250	4119	4108	4097	4086	4075	4064	4053	4042	4031	4020	4009	3998	3988	3977	3966	3955	3944	3933	3922	3911	3900	3889	3878	3867	3856	3845	3834	3823	3813	3802	3791	3780	3769	3758	3747	3736	3725	3714	3703	3692	3681	3670	3659	3649
4000	3869	3858	3847	3836	3825	3814	3803	3792	3781	3770	3759	3748	3738	3727	3716	3705	3694	3683	3672	3661	3650	3639	3628	3617	3606	3595	3584	3573	3563	3552	3541	3530	3519	3508	3497	3486	3475	3464	3453	3442	3431	3420	3409	3399
3750	3619	3608	3597	3586	3575	3564	3553	3542	3531	3520	3509	3498	3488	3477	3466	3455	3444	3433	3422	3411	3400	3389	3378	3367	3356	3345	3334	3323	3313	3302	3291	3280	3269	3258	3247	3236	3225	3214	3203	3192	3181	3170	3159	3149
3500	3369	3358	3347	3336	3325	3314	3303	3292	3281	3270	3259	3248	3238	3227	3216	3205	3194	3183	3172	3161	3150	3139	3128	3117	3106	3095	3084	3073	3063	3052	3041	3030	3019	3008	2997	2986	2975	2964	2953	2942	2931	2920	2909	2899
3250	3119	3108	3097	3086	3075	3064	3053	3042	3031	3020	3009	2998	2988	2977	2966	2955	2944	2933	2922	2911	2900	2889	2878	2867	2856	2845	2834	2823	2813	2802	2791	2780	2769	2758	2747	2736	2725	2714	2703	2692	2681	2670	2659	2649
3000	2869	2858	2847	2836	2825	2814	2803	2792	2781	2770	2759	2748	2738	2727	2716	2705	2694	2683	2672	2661	2650	2639	2628	2617	2606	2595	2584	2573	2563	2552	2541	2530	2519	2508	2497	2486	2475	2464	2453	2442	2431	2420	2409	2399
2750	2619	2608	2597	2586	2575	2564	2553	2542	2531	2520	2509	2498	2488	2477	2466	2455	2444	2433	2422	2411	2400	2389	2378	2367	2356	2345	2334	2323	2313	2302	2291	2280	2269	2258	2247	2236	2225	2214	2203	2192	2181	2170	2159	2149
2500	2369	2358	2347	2336	2325	2314	2303	2292	2281	2270	2259	2248	2238	2227	2216	2205	2194	2183	2172	2161	2150	2139	2128	2117	2106	2095	2084	2073	2063	2052	2041	2030	2019	2008	1997	1986	1975	1964	1953	1942	1931	1920	1909	1899
2250	2119	2108	2097	2086	2075	2064	2053	2042	2031	2020	2009	1998	1988	1977	1966	1955	1944	1933	1922	1911	1900	1889	1878	1867	1856	1845	1834	1823	1813	1802	1791	1780	1769	1758	1747	1736	1725	1714	1703	1692	1681	1670	1659	1649
2000	1869	1858	1847	1836	1825	1814	1803	1792	1781	1770	1759	1748	1738	1727	1716	1705	1694	1683	1672	1661	1650	1639	1628	1617	1606	1595	1584	1573	1563	1552	1541	1530	1519	1508	1497	1486	1475	1464	1453	1442	1431	1420	1409	1399

Shed Width

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