



PROJECT:	Apex Building Products	JOB NO.	17404
		Date	30-Sep-14
		SUBJECT	SPAN TABLES FOR TOPHATS IN DOMESTIC CLASS 10 AND INDUSTRIAL SHED ROOFS
		Sheet	1

TABLE TH - A1 - REGION A 64 and 75 tophats

		Purlin Spacing												
		600			900			1200			1500			
		Maximum Purlin span for purlin configuration												
Section	Region	Terrain	single	double	Lapped	single	double	Lapped	single	double	Lapped	single	double	Lapped
64 X 0.75	A	TC3	1800	3554	3781	2662	3379	3588	1738	3089	3433	1711	2763	3305
64 X 0.75	A	TC2.5	1800	3554	3781	2606	3379	3588	1738	2936	3433	1711	2626	3305
64 X 0.75	A	TC2	1800	3554	3781	2529	3229	3588	1738	2797	3433	1711	2502	3282
64 X 1.0	A	TC3	2053	4013	4267	2959	3801	4033	1975	3544	3849	1941	3170	3697
64 X 1.0	A	TC2.5	2053	4013	4267	2867	3801	4033	1975	3368	3849	1941	3012	3697
64 X 1.0	A	TC2	2053	4013	4267	2783	3705	4033	1975	3208	3849	1941	2870	3612
64 X 1.2	A	TC3	2247	4359	4632	3144	4117	4367	2155	3822	4159	2115	3483	3990
64 X 1.2	A	TC2.5	2247	4359	4632	3047	4077	4367	2155	3700	4159	2115	3310	3954
64 X 1.2	A	TC2	2247	4359	4632	2957	3956	4352	2155	3525	4134	2115	3153	3838
75 x 0.75	A	TC3	2168	4218	4483	3060	3988	4231	2081	3719	4033	2044	3453	3870
75 x 0.75	A	TC2.5	2168	4218	4483	2965	3967	4231	2081	3605	4033	2044	3346	3848
75 x 0.75	A	TC2	2168	4218	4483	2877	3850	4231	2081	3498	4023	2044	3228	3735
75 x 1.0	A	TC3	2471	4755	5051	3367	4479	4749	2363	4093	4514	2316	3800	4323
75 x 1.0	A	TC2.5	2471	4755	5051	3263	4366	4749	2363	3967	4514	2316	3683	4235
75 x 1.0	A	TC2	2471	4755	5051	3167	4237	4661	2363	3850	4427	2316	3574	4110
75 x 1.2	A	TC3	2702	5158	5476	3578	4787	5135	2575	4349	4872	2521	4038	4643
75 x 1.2	A	TC2.5	2702	5158	5476	3467	4639	5103	2575	4215	4847	2521	3913	4500
75 x 1.2	A	TC2	2702	5154	5476	3365	4502	4953	2575	4091	4704	2521	3798	4367


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TABLE TH - A2 - REGION A 96 and 120 tophats

			Purlin Spacing											
			600			900			1200			1500		
			Maximum Purlin span for purlin configuration											
Section	Region	Terrain	single	double	Lapped	single	double	Lapped	single	double	Lapped	single	double	Lapped
96 x 0.75	A	TC3	2599	4979	5287	3473	4647	4963	2480	4222	4713	2430	3919	4507
96 x 0.75	A	TC2.5	2599	4979	5287	3365	4503	4953	2480	4091	4705	2430	3798	4368
96 x 0.75	A	TC2	2599	4979	5287	3266	4370	4807	2480	3971	4566	2430	3686	4239
96 x 1.0	A	TC3	2963	5607	5951	3822	5114	5564	2814	4646	5269	2751	4313	4960
96 x 1.0	A	TC2.5	2963	5607	5951	3704	4956	5451	2814	4503	5178	2751	4180	4807
96 x 1.0	A	TC2	2963	5505	5951	3594	4809	5290	2814	4370	5025	2751	4057	4665
96 x 1.2	A	TC3	3236	6072	6441	4061	5434	5977	3062	4937	5678	2990	4583	5271
96 x 1.2	A	TC2.5	3236	6028	6441	3936	5266	5793	3062	4785	5502	2990	4442	5108
96 x 1.2	A	TC2	3236	5850	6441	3819	5111	5622	3062	4643	5340	2990	4310	4957
120 x 0.75	A	TC3	3760	6910	7367	4511	6037	6640	3535	5485	6307	3443	5092	5855
120 x 0.75	A	TC2.5	3760	6697	7367	4372	5850	6435	3535	5315	6113	3443	4934	5674
120 x 0.75	A	TC2	3760	6499	7367	4243	5677	6245	3535	5158	5932	3443	4789	5507
120 x 1.0	A	TC3	4276	7605	8261	4965	6644	7308	3997	6036	6942	3885	5604	6444
120 x 1.0	A	TC2.5	4276	7370	8261	4812	6439	7082	3997	5850	6727	3885	5431	6245
120 x 1.0	A	TC2	4276	7153	8226	4670	6249	6873	3997	5677	6529	3885	5270	6061
120 x 1.2	A	TC3	4661	8081	8919	5276	7060	7766	4339	6414	7377	4212	5955	6848
120 x 1.2	A	TC2.5	4661	7832	8919	5113	6842	7526	4339	6216	7149	4212	5771	6636
120 x 1.2	A	TC2	4661	7601	8741	4962	6640	7304	4339	6033	6938	4185	5600	6440

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TABLE TH - B1 - REGION B 64 and 75 tophats

			Purlin Spacing											
			600			900			1200			1500		
			Maximum Purlin span for purlin configuration											
Section	Region	Terrain	single	double	Lapped	single	double	Lapped	single	double	Lapped	single	double	Lapped
64 X 0.75	B	TC3	1800	3289	3781	2252	2686	3315	1738	2326	3149	1711	2080	2923
64 X 0.75	B	TC2.5	1800	3097	3781	2168	2529	3191	1738	2190	3031	1711	1959	2814
64 X 0.75	B	TC2	1800	2927	3683	2091	2390	3077	1738	2070	2923	1711	1851	2714
64 X 1.0	B	TC3	2053	3773	4267	2479	3081	3648	1975	2668	3465	1941	2387	3217
64 X 1.0	B	TC2.5	2053	3553	4202	2386	2901	3511	1975	2513	3335	1941	2247	3096
64 X 1.0	B	TC2	2053	3358	4053	2301	2742	3386	1975	2374	3217	1941	2124	2986
64 X 1.2	B	TC3	2247	4034	4632	2634	3385	3876	2155	2932	3682	2115	2622	3418
64 X 1.2	B	TC2.5	2247	3882	4465	2535	3188	3731	2155	2761	3544	2115	2469	3290
64 X 1.2	B	TC2	2247	3690	4306	2445	3013	3598	2155	2609	3418	2062	2334	3173
75 x 0.75	B	TC3	2168	3925	4483	2563	3429	3772	2081	3002	3583	2044	2685	3326
75 x 0.75	B	TC2.5	2168	3778	4345	2467	3264	3631	2081	2826	3449	2044	2528	3201
75 x 0.75	B	TC2	2168	3644	4191	2379	3084	3502	2081	2671	3326	2007	2389	3088
75 x 1.0	B	TC3	2471	4320	4968	2820	3774	4151	2363	3429	3943	2316	3081	3661
75 x 1.0	B	TC2.5	2471	4158	4782	2715	3632	3996	2363	3243	3795	2290	2901	3523
75 x 1.0	B	TC2	2471	4010	4612	2618	3503	3854	2363	3065	3660	2208	2741	3398
75 x 1.2	B	TC3	2702	4590	5279	2997	4010	4411	2575	3643	4190	2521	3382	3890
75 x 1.2	B	TC2.5	2702	4418	5081	2885	3860	4246	2575	3507	4033	2433	3187	3744
75 x 1.2	B	TC2	2702	4261	4900	2782	3723	4095	2528	3368	3890	2347	3012	3611


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TABLE TH - B2 - REGION B 96 and 120 tophats

			Purlin Spacing											
			600			900			1200			1500		
			Maximum Purlin span for purlin configuration											
Section	Region	Terrain	single	double	Lapped	single	double	Lapped	single	double	Lapped	single	double	Lapped
96 x 0.75	B	TC3	2599	4456	5124	2909	3892	4282	2480	3536	4067	2430	3283	3775
96 x 0.75	B	TC2.5	2599	4288	4932	2800	3746	4121	2480	3404	3914	2361	3160	3634
96 x 0.75	B	TC2	2599	4136	4756	2700	3613	3975	2453	3283	3775	2278	3044	3505
96 x 1.0	B	TC3	2963	4903	5639	3201	4284	4712	2814	3892	4476	2700	3613	4155
96 x 1.0	B	TC2.5	2963	4720	5427	3081	4123	4535	2800	3746	4308	2599	3477	3999
96 x 1.0	B	TC2	2963	4552	5235	2972	3977	4374	2700	3613	4155	2507	3354	3857
96 x 1.2	B	TC3	3236	5210	5992	3402	4552	5007	3062	4136	4756	2869	3839	4415
96 x 1.2	B	TC2.5	3236	5015	5767	3274	4381	4819	2975	3981	4578	2762	3695	4249
96 x 1.2	B	TC2	3236	4837	5562	3158	4225	4648	2869	3839	4415	2664	3564	4099
120 x 0.75	B	TC3	3760	5788	6657	3779	5057	5562	3434	4594	5284	3188	4219	4905
120 x 0.75	B	TC2.5	3760	5571	6407	3637	4867	5354	3305	4422	5085	3068	3972	4721
120 x 0.75	B	TC2	3760	5373	6179	3508	4694	5164	3187	4197	4905	2959	3754	4553
120 x 1.0	B	TC3	4276	6371	7326	4159	5565	6122	3779	5057	5815	3508	4694	5398
120 x 1.0	B	TC2.5	4276	6132	7051	4003	5357	5892	3637	4867	5597	3377	4518	5196
120 x 1.0	B	TC2	4276	5914	6801	3861	5166	5683	3508	4694	5398	3257	4313	5011
120 x 1.2	B	TC3	4661	6770	7785	4420	5914	6505	4016	5373	6179	3728	4988	5736
120 x 1.2	B	TC2.5	4661	6516	7493	4254	5692	6261	3865	5172	5947	3588	4801	5521
120 x 1.2	B	TC2	4661	6284	7227	4103	5490	6039	3728	4988	5736	3461	4630	5325


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TABLE TH - C1 - REGION C 64 and 75 tophats

			Purlin Spacing											
			600			900			1200			1500		
			Maximum Purlin span for purlin configuration											
Section	Region	Terrain	single	double	Lapped	single	double	Lapped	single	double	Lapped	single	double	Lapped
64 X 0.75	C	TC3	1800	2682	3481	1976	2189	2909	1738	1896	2763	1667	1696	2565
64 X 0.75	C	TC2.5	1800	2527	3350	1902	2064	2800	1728	1787	2659	1598	1598	2469
64 X 0.75	C	TC2	1800	2390	3231	1835	1952	2700	1667	1690	2565	1512	1512	2381
64 X 1.0	C	TC3	2053	3076	3831	2175	2512	3201	1975	2175	3040	1834	1946	2823
64 X 1.0	C	TC2.5	2053	2899	3687	2093	2367	3081	1902	2050	2926	1765	1834	2717
64 X 1.0	C	TC2	2053	2742	3556	2019	2239	2971	1834	1939	2822	1703	1734	2620
64 X 1.2	C	TC3	2247	3380	4070	2311	2760	3401	2100	2390	3231	1949	2138	2999
64 X 1.2	C	TC2.5	2247	3186	3918	2224	2601	3274	2021	2253	3110	1876	2015	2887
64 X 1.2	C	TC2	2247	3013	3779	2145	2460	3157	1949	2130	2999	1809	1906	2784
75 x 0.75	C	TC3	2168	3444	3961	2249	2825	3310	2043	2447	3144	1897	2189	2919
75 x 0.75	C	TC2.5	2168	3262	3813	2164	2663	3186	1967	2306	3026	1826	2063	2809
75 x 0.75	C	TC2	2168	3085	3677	2088	2519	3073	1897	2181	2919	1761	1951	2709
75 x 1.0	C	TC3	2471	3791	4359	2475	3242	3643	2249	2808	3460	2087	2511	3212
75 x 1.0	C	TC2.5	2471	3648	4196	2382	3056	3506	2164	2646	3330	2009	2367	3091
75 x 1.0	C	TC2	2471	3519	4047	2297	2890	3381	2087	2503	3212	1938	2239	2982
75 x 1.2	C	TC3	2702	4028	4632	2630	3519	3871	2389	3085	3677	2218	2759	3413
75 x 1.2	C	TC2.5	2702	3877	4458	2531	3358	3725	2300	2908	3539	2135	2601	3285
75 x 1.2	C	TC2	2702	3739	4300	2441	3175	3593	2218	2750	3413	2059	2460	3168


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TABLE TH - C2 - REGION C 96 and 120 tophats

			Purlin Spacing											
			600			900			1200			1500		
			Maximum Purlin span for purlin configuration											
Section	Region	Terrain	single	double	Lapped	single	double	Lapped	single	double	Lapped	single	double	Lapped
96 x 0.75	C	TC3	2599	4456	5124	2909	3892	4282	2480	3536	4067	2430	3283	3775
96 x 0.75	C	TC2.5	2599	4288	4932	2800	3746	4121	2480	3404	3914	2361	3160	3634
96 x 0.75	C	TC2	2599	4136	4756	2700	3613	3975	2453	3283	3775	2278	3044	3505
96 x 1.0	C	TC3	2963	4303	4948	2809	3759	4135	2552	3415	3927	2369	3170	3646
96 x 1.0	C	TC2.5	2963	4141	4762	2704	3618	3979	2457	3287	3780	2280	3019	3509
96 x 1.0	C	TC2	2963	3994	4593	2608	3489	3838	2369	3170	3646	2199	2855	3384
96 x 1.2	C	TC3	3236	4572	5258	2985	3994	4393	2712	3629	4173	2518	3369	3874
96 x 1.2	C	TC2.5	3236	4400	5061	2873	3844	4229	2610	3493	4017	2423	3242	3729
96 x 1.2	C	TC2	3172	4244	4881	2771	3708	4078	2518	3369	3874	2337	3127	3596
120 x 0.75	C	TC3	3760	5079	5841	3316	4437	4881	3013	3845	4636	2797	3439	4304
120 x 0.75	C	TC2.5	3653	4889	5622	3192	4185	4698	2900	3624	4462	2692	3241	4142
120 x 0.75	C	TC2	3524	4715	5422	3078	3958	4531	2797	3427	4304	2596	3066	3995
120 x 1.0	C	TC3	4178	5590	6428	3650	4883	5372	3316	4417	5102	3078	3951	4737
120 x 1.0	C	TC2.5	4021	5380	6187	3513	4700	5170	3192	4163	4911	2963	3724	4559
120 x 1.0	C	TC2	3878	5189	5968	3388	4533	4987	3078	3937	4737	2858	3522	4397
120 x 1.2	C	TC3	4439	5940	6831	3878	5189	5708	3524	4715	5422	3271	4339	5033
120 x 1.2	C	TC2.5	4273	5717	6575	3733	4995	5494	3391	4538	5219	3148	4090	4845
120 x 1.2	C	TC2	4121	5514	6341	3600	4817	5299	3271	4324	5033	3037	3868	4673


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TABLE TH - D1 - REGION D 64 and 75 tophats

			Purlin Spacing											
			600			900			1200			1500		
			Maximum Purlin span for purlin configuration											
Section	Region	Terrain	single	double	Lapped	single	double	Lapped	single	double	Lapped	single	double	Lapped
64 X 0.75	C	TC3	1800	2091	2962	1682	1708	2475	1479	1479	2351	1323	1323	2183
64 X 0.75	C	TC2.5	1800	1973	2851	1611	1611	2382	1395	1395	2263	1248	1248	2101
64 X 0.75	C	TC2	1787	1867	2750	1524	1524	2298	1320	1320	2183	1181	1181	2026
64 X 1.0	C	TC3	2053	2399	3260	1851	1959	2724	1681	1696	2587	1517	1517	2402
64 X 1.0	C	TC2.5	2039	2263	3137	1781	1848	2622	1600	1600	2490	1431	1431	2312
64 X 1.0	C	TC2	1967	2141	3026	1718	1748	2529	1514	1514	2402	1354	1354	2230
64 X 1.2	C	TC3	2247	2636	3464	1966	2152	2894	1787	1864	2749	1659	1667	2552
64 X 1.2	C	TC2.5	2166	2486	3334	1893	2030	2786	1720	1758	2646	1573	1573	2456
64 X 1.2	C	TC2	2090	2353	3215	1825	1921	2687	1659	1664	2552	1488	1488	2369
75 x 0.75	C	TC3	2168	2699	3371	1914	2204	2817	1739	1908	2675	1614	1707	2484
75 x 0.75	C	TC2.5	2108	2546	3244	1842	2078	2711	1673	1800	2575	1553	1610	2390
75 x 0.75	C	TC2	2033	2409	3129	1776	1967	2615	1614	1703	2484	1498	1524	2306
75 x 1.0	C	TC3	2411	3097	3709	2106	2529	3100	1913	2190	2944	1776	1959	2733
75 x 1.0	C	TC2.5	2320	2921	3570	2027	2385	2983	1842	2065	2834	1710	1847	2631
75 x 1.0	C	TC2	2238	2764	3443	1955	2257	2877	1776	1955	2733	1649	1748	2537
75 x 1.2	C	TC3	2562	3403	3942	2238	2778	3294	2033	2406	3129	1887	2152	2904
75 x 1.2	C	TC2.5	2465	3209	3794	2154	2620	3170	1957	2269	3011	1817	2030	2795
75 x 1.2	C	TC2	2378	3037	3659	2077	2480	3058	1887	2148	2904	1752	1921	2696


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TABLE TH - D2 - REGION D 96 and 120 tophats

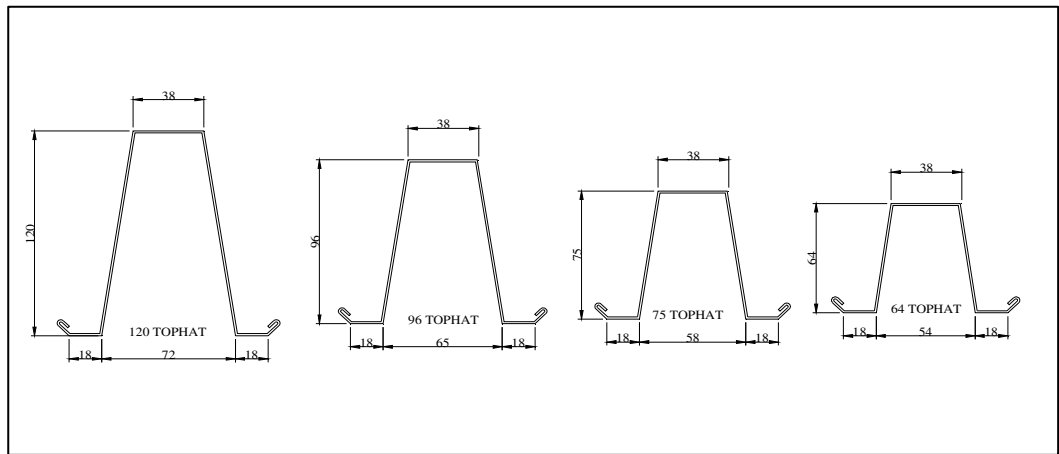
			Purlin Spacing											
			600			900			1200			1500		
			Maximum Purlin span for purlin configuration											
Section	Region	Terrain	single	double	Lapped	single	double	Lapped	single	double	Lapped	single	double	Lapped
96 x 0.75	C	TC3	2486	3327	3826	2172	2808	3197	1973	2432	3037	1832	2175	2819
96 x 0.75	C	TC2.5	2393	3202	3682	2091	2648	3077	1899	2293	2923	1763	2051	2713
96 x 0.75	C	TC2	2308	3069	3551	2016	2506	2968	1832	2170	2819	1701	1941	2617
96 x 1.0	C	TC3	2736	3661	4210	2390	3198	3518	2172	2793	3342	2016	2498	3102
96 x 1.0	C	TC2.5	2634	3524	4052	2301	3042	3386	2090	2634	3217	1941	2356	2986
96 x 1.0	C	TC2	2540	3399	3909	2219	2878	3266	2016	2493	3102	1872	2230	2880
96 x 1.2	C	TC3	2908	3890	4474	2540	3399	3739	2308	3067	3551	2142	2743	3297
96 x 1.2	C	TC2.5	2798	3745	4306	2445	3271	3598	2221	2893	3418	2062	2588	3173
96 x 1.2	C	TC2	2699	3612	4153	2358	3155	3471	2142	2738	3297	1989	2449	3060
120 x 0.75	C	TC3	3230	4241	4970	2822	3463	4153	2564	2999	3945	2380	2682	3662
120 x 0.75	C	TC2.5	3109	4000	4784	2716	3266	3997	2468	2828	3797	2291	2530	3525
120 x 0.75	C	TC2	2998	3785	4614	2619	3091	3855	2380	2677	3662	2209	2394	3400
120 x 1.0	C	TC3	3555	4757	5470	3106	3978	4571	2822	3445	4342	2619	3081	4031
120 x 1.0	C	TC2.5	3422	4578	5265	2989	3752	4400	2716	3249	4179	2521	2906	3879
120 x 1.0	C	TC2	3300	4348	5078	2883	3550	4243	2619	3075	4031	2432	2750	3742
120 x 1.2	C	TC3	3778	5055	5813	3300	4369	4857	2998	3783	4614	2783	3384	4283
120 x 1.2	C	TC2.5	3636	4865	5595	3176	4120	4675	2886	3568	4441	2679	3192	4122
120 x 1.2	C	TC2	3507	4692	5396	3064	3899	4509	2783	3377	4283	2584	3020	3976



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Parameter	Section	64 X 0.75	64 X 1.0	64 X 1.2	75 x 0.75	75 x 1.0	75 x 1.2	96 x 0.75	96 x 1.0	96 x 1.2	120 x 0.75	120 x 1.0	120 x 1.2	Parameter
Feed		231	231	231	260	260	260	297	297	297	345	345	345	Feed
BMT		0.75	1	1.2	0.75	1	1.2	0.75	1	1.2	0.75	1	1.2	BMT
Area		173.25	231	277.2	191.25	255	306	222.75	297	356.4	258.75	345	414	Area
Wt/m	(kg/m)	1.35	1.80	2.16	1.49	1.99	2.39	1.74	2.32	2.78	2.02	2.69	3.23	Wt/m
I _{xx}	(mm ⁴)	99849	133061	159634	147120	196089	235268	215130	286769	344084	471764	628948	754699	I _{xx}
I _{xx} (Eff)	(mm ⁴)	98727	129923	156866	145516	191602	231309	213106	281106	339088	467450	616879	744051	I _{xx} (Eff)
Z _x top	(mm ³)	2113	2816	3378	3518	4688	5625	5702	7601	9120	22914	30549	36656	Z _x top
Z _x (Eff)	(mm ³)	2089	2749	3320	3479	4581	5531	5649	7451	8988	22705	29962	36139	Z _x (Eff)
Z _x bot.	(mm ³)	3599	4796	5754	4434	5910	7091	5772	7694	9232	8670	11559	13870	Z _x bot.
Z _x (Eff)	(mm ³)	3558	4683	5654	4386	5775	6972	5717	7542	9097	8591	11337	13674	Z _x (Eff)
I _{yy}	(mm ⁴)	144433	192505	230965	167955	223868	268602	217032	289306	347129	280172	373494	448157	I _{yy}
Z _{yy}	(mm ³)	2889	3850	4619	3230	4305	5165	3876	5166	6199	4670	6225	7469	Z _{yy}
r _x	mm	24.01	24.00	24.00	27.74	27.73	27.73	31.08	31.07	31.07	42.70	42.70	42.70	r _x
r _y	mm	28.87	28.87	28.87	29.63	29.63	29.63	31.21	31.21	31.21	32.91	32.90	32.90	r _y
J	(mm ³)	32.48	77.00	133.06	35.86	85.00	146.88	41.77	99.00	171.07	48.52	115.00	198.72	J
I _w	(mm ⁶)	1.905E+09	2.539E+09	3.047E+09	1.916E+09	2.555E+09	3.066E+09	1.932E+09	2.576E+09	3.092E+09	1.945E+09	2.593E+09	3.112E+09	I _w
Y _o	mm	74.66	65.07	60.27	62.46	62.47	62.47	74.70	70.71	68.71	85.39	80.44	77.97	Y _o

Section Profiles



Parameters in Blue Gross section properties

Parameters in Blue Effective section properties



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DESIGN CRITERIA	CODES	SECTIONS
NCC VOL 1 PART B, VOL. 2 PART	AS 1170.0 LOADING CODE	AS PER DETAIL PROFILES FROM APEX SHEDS
IMPORTANCE LEVEL 2	AS1170.1 LOADING CODE - DEAD AND LIVE	LAPS AS PER DETAIL ATTACHED
WIND REGION A	AS1170.2 LOADING CODE - WIND FORCES	Screw fasteners - min 2 12g series 500 teks at each rafter
	AS4600 COLD FORMED STEEL STRUCTURES	

Dead Loads Weights of materials and permanent fittings 0.15 kPa
 Live Loads Area based load = $1.8/A + 0.12$ Minimum 0.25 kPa
 A = Contributing area

Wind Loads Based on regional velocities converted to dynamic pressure and modified for terrain and height
 Nominal Height used in Tables 6.00 Metres
 External Pressure co-efficients Varies according to geometry and wind direction
 Internal Pressure co-efficient based on all equal of permeability $C_{pi} = 0.2$

Wind region definitions
 Reproduced from AS 1170.2

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WIND REGION DEFINITIONS

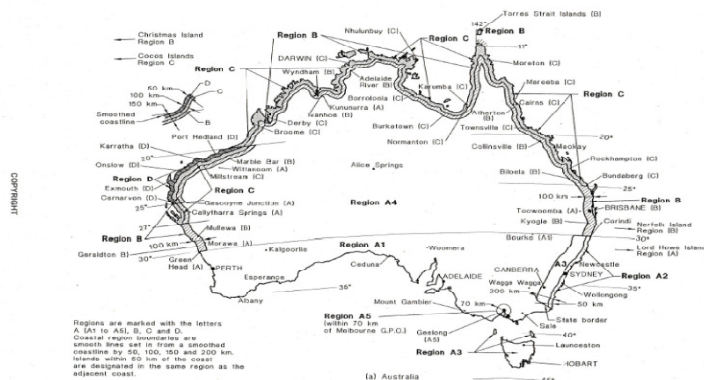


FIGURE 3.1(A) WIND REGIONS