

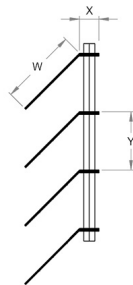
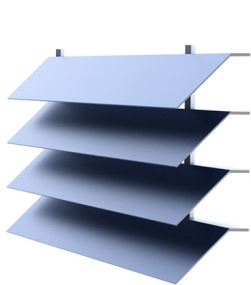
Mirage Series® Span Table

Mirage Series® Span Table

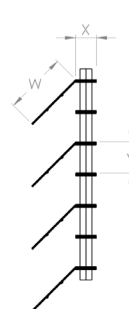
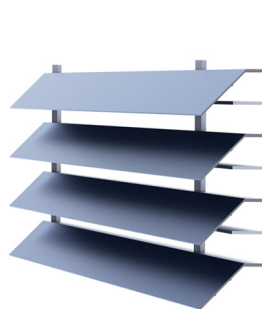
Mirage Series® - Screen Spans based on Location Category, Pressure & Elevation

Screen Type	Swage Bar Centres	Category Elevation in [m] Pressure in [kpa]	N2			N3 / C1			N4 / C2			N5 / C3		
			10m 1.22Kpa [mm]	20m 1.42kpa [mm]	50m 1.69kpa [mm]	10m 1.92Kpa [mm]	20m 2.24kpa [mm]	50m 2.68kpa [mm]	10m 2.61Kpa [mm]	20m 3.34kpa [mm]	50m 4.35kpa [mm]	10m 3.9Kpa [mm]	20m 4.97kpa [mm]	50m 6.48kpa [mm]
MSC-20360/135	100mm		2400	2300	2200	2100	1900	1800	1800	1600	1300	1400	1200	1100
MSG-253-30	100mm		2300	2200	2100	2000	1900	1800	1800	1600	1500	1600	1400	1000
MSG-323-30	100mm		2000	1900	1800	1700	1600	1500	1500	1400	1200	1300	1200	1000
MSG-403-30	100mm		2000	1900	1800	1700	1600	1500	1500	1400	1200	1300	1100	900
MSG-503-30	100mm		2000	1900	1800	1700	1600	1500	1500	1300	1100	1200	1000	800
MSG-603-30	100mm		2100	2100	1800	1700	1500	1400	1400	1100	900	1000	800	700
MSS-20360/135-60	100mm		1700	1600	1500	1400	1300	1200	1200	1000	900	1000	800	700
MSS-20360/135-60	200mm		1700	1500	1400	1300	1200	1100	1100	1000	900	900	800	700
MSS-20360/135-60	100mm		1500	1400	1300	1200	1100	1000	1000	900	800	800	700	700
MSS-20380/135-60	100mm		2200	2100	1900	1800	1700	1500	1500	1000	800	1200	1000	900
MSS-20380/135-60	200mm		1900	1700	1400	1300	1200	1100	1100	1000	800	900	800	700
MSS-32380/135-60	100mm		2400	2300	2200	2100	2000	1800	1800	1600	1400	1500	1300	1100
MSS-32380/135-60	200mm		2400	2300	2200	2100	1900	1700	1800	1600	1400	1500	1300	1100

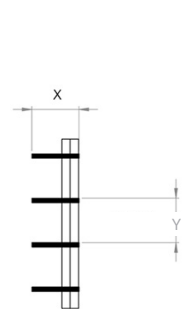
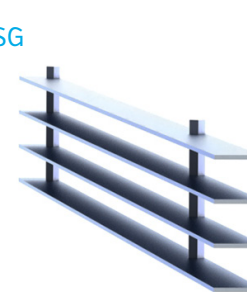
MSS



MSC



MSG



SELECTION PROCESS - 5 STEP GUIDE

To determine the wind classification for your domestic building site you must consider 4 factors: the Region, the Terrain Category, a Shielding Factor and the Topography. This information is to be used as an approximate guide for residential structures only. **This information is based on the Australian Standard AS/NZS4055:2012, The code for wind loads on/for housing. For a detailed analysis refer to Australian standard AS/NZS1170.2:2011.** This approach is only suitable for houses up to 2 storeys high and no wider that 16m and 8.5m high.

1. WIND REGION

Choose your wind region based on the dwelling location.

2. TERRAIN CATEGORY

Determine your terrain category. The terrain category is describes the surface roughness of the surrounding area 500m before the house.

Category 1 – TC1

Exposed open terrain with few or no obstructions. This condition exists only for isolated houses in flat treeless, poorly grassed plains of at least 10km width. eg lake or river

Category 1.5 – TC1.5

Large open water surfaces in all wind regions. eg Applies to sea, ocean water and large unenclosed bays.

Category 2 – TC2

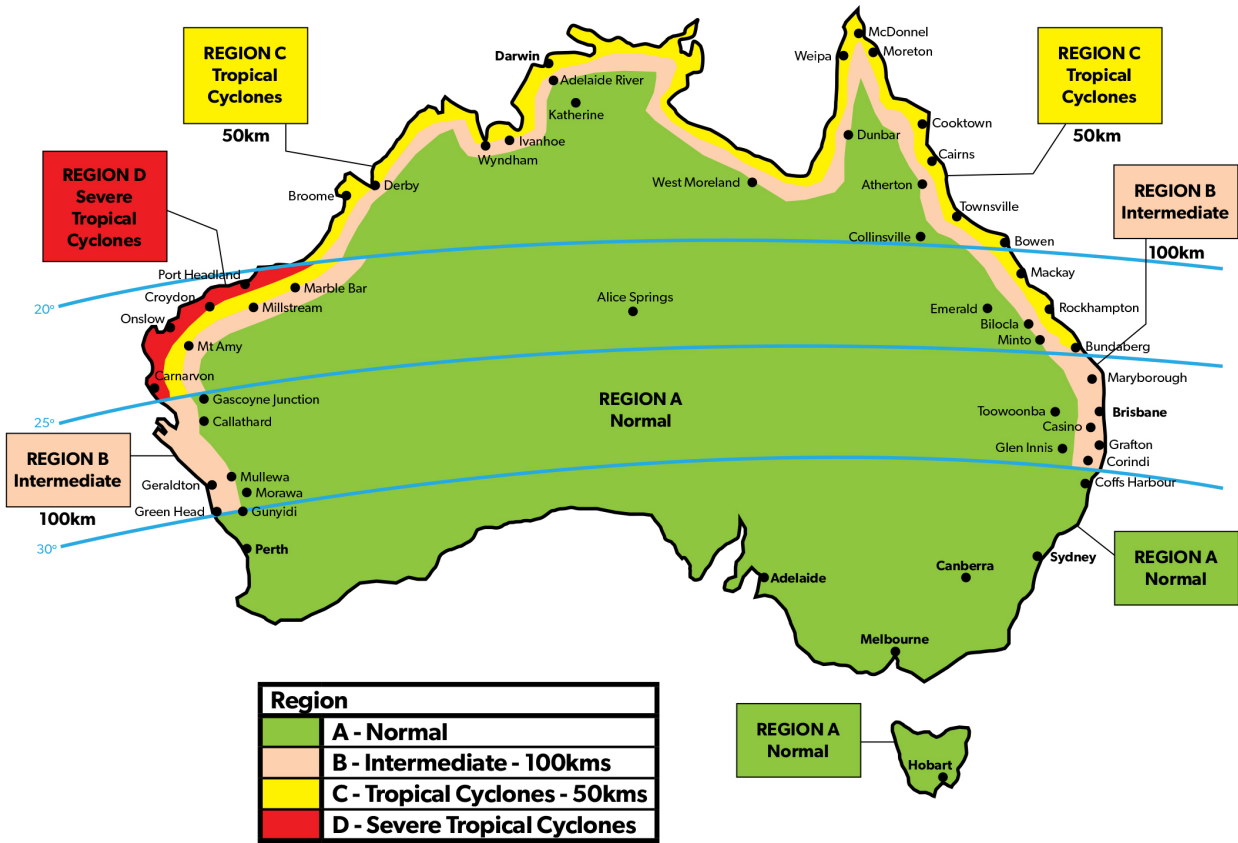
Open terrain including sea coast areas, airfields, grassed with few well-scattered obstructions, such as isolated trees and uncut grass, having heights from 1.5m to 10m.

Category 2.5 – TC2.5

Terrain with few trees, isolated obstructions, such as agriculture Land, canefields or long grass, up to 600mm high. This terrain is intermediate between TC2 and TC3 and represents the terrain in developing outer urban areas.

Category 3 – TC3

Terrain with numerous closely spaced obstructions having the size of houses. The minimum density of houses and trees, except for regions C & D, shall be equivalent of 10 house size obstructions per hectare. Substantial well established trees shall be considered as obstructions except in regions C & D where a maximum of TC 2.5 applies for the equivalent 10 house size obstructions per hectare.



3. SHIELDING FACTOR

Determine your shielding factor.

Full Shielding – FS

Full shielding where at least two rows of houses or similar size permanent obstructions surround the house being considered. In Regions A & B, heavily wooded areas provide full shielding. The effects of roads or other open areas with less than 100m measured in any direction shall be ignored. Full shielding is for typical suburban development greater than 10 houses per hectare.

Partial Shielding – PS

Partially shielded where there are a least 25 houses, trees or sheds per hectare such as acreage type suburban development or wooden parkland. In Regions C & D heavily wooded shall be considered to have partial shielding. The second row of houses are classified as partially shielded.





































No Shielding – NS

No shielding where there are no permanent obstructions or where there are less than 2.5 obstructions per hectare, such as the first two rows of houses abutting open parklands, water or airfields.

4. TOPOGRAPHIC EFFECT

The topographic classification is determined by the effect the wind has on the dwelling due to its position on the hill.

The bottom of the hill is considered very flat, if the slope is less than a 1 in 20 rise a minimal slope would be classed as T0. The maximum slope is measured at the steepest part of the hill regardless of where the dwelling is positioned. A cliff is a slope of greater than 1 in 3 and had the maximum of T5 at the top.

Maximum Slopes	Location On Hill (Zone) >>>					
	Lower Third	Mid Third	Top Third			Over Top
			<10M	Height	>30M	
<= 1:20 Very Flat	T0 	T0 	T0 	T0 	T0 	T0 
<= 1:10 Flat	T0 	T0 	T1 	T1 	T1 	T0 
<= 1:7.5 Small Hill	T0 	T1 	T1 	T2 	T2 	T0 
<= 1:5 Medium Hill	T0 	T1 	T2 	T2 	T3 	T1 
<= 1:3 Big Hill	T0 	T2 	T2 	T3 	T4 	T2 
>= 1:3 Cliff	T0 	T2 	T3 	T4 	T5 	T3 

5. WIND CLASSIFICATION

- 1) Choose your Wind Region based on your dwelling location.
- 2) Determine the appropriate Terrain Category.
- 3) Select the type of shielding your site has.
- 4) Establish the Topography of your area.

Look up your wind classification in the table below.

Place	Region	Terrain Category	Shielding	Topography	Wind Class	Common Notation
House in the Suburbs - flat	A	TC3	FS	T1	N1	W28
	B				N2	W33
	C				C1	C41
	D				C2	C50
1 Sydney in the suburbs - flat	A	TC3	FS	T1	N1	W28
		TC2.5	NS	T1	N2	W33
		TC1.5	NS	T5	N5	W60
2 Melbourne, Hobart, Adelaide & Perth in the suburbs	A	TC3	FS	T1	N1	W28
			NS	T3	N3	W41
3 Brisbane in the suburbs	B	TC3	FS	T1	N2	W33
		TC3	NS	T5	N5	W60
4 Hervey Bay, Cairns & Darwin in the suburbs	C	TC3	FS	T1	C1	C41
		TC2.5	NS	T1	C2	C50
5 Broome, WA in suburbs - flat	C	TC1.5	FS	T1	C2	C50
6 Karratha, Dampier, Carnarvon WA in suburbs	D	TC1.5	FS	T0	C3	C60
		TC1.5	NS		C4	C70

WIND CLASSIFICATION 6

Examples of the Wind Classification for cities around Australia

			NORMAL WIND Topography - Slope of Hill																				
NORMAL	Wind Region	Terrain Category	T0			T1			T2			T3		T4	T5	< Shielding							
			FS	PS	NS	FS	PS	NS	FS	PS	NS	PS	NS	NS	NS								
Coffs Harbour & South below 30 degs S 0km inland. Above 30 degs >100km	A	TC 3	W28	W28	W28	W28	W33	W33	W33	W33	W33	W33	W41	W41	W41	W50	suburban						
		TC 2.5	W28	W28	W33	W28	W33	W33	W33	W41	W41	W41	W41	W41	W50	W50	few trees, long grass						
		TC 2	W28	W33	W33	W33	W33	W41	W41	W41	W41	W41	W41	W41	W50	W50	open grass						
		TC 1.5	W33	W33	W33	W33	W41	W41	W41	W41	W41	W41	W41	W50	W50	W60	water, ocean						
		TC 1	W33	W41	W41	W33	W41	W41	W41	W41	W41	W50	W50	W50	W50	W60	lake, open terrain						
North of Coffs Harbour NSW, Gascoyne Junction WA. Above 30 degs S >750km inland	B	TC 3	W33	W33	W41	W33	W41	W41	W41	W41	W50	W50	W50	W50	W60	suburban							
		TC 2.5	W33	W41	W41	W41	W41	W41	W41	W50	W50	W50	W50	W60	W60	few trees, long grass							
		TC 2	W33	W41	W41	W41	W41	W50	W41	W50	W50	W50	W60	W60	W70	open grass							
		TC 1.5	W41	W41	W50	W41	W50	W50	W50	W50	W50	W60	W60	W60	W70	water, ocean							
		TC 1	W41	W50	W50	W50	W50	W50	W50	W60	W60	W60	W60	W70	W70	lake, open terrain							
CYCLONIC			CYCLONIC WIND																				
Bundaberg, Hervey Bay, QLD, NT <50km inland North of 25 degs S & parts of WA	C	TC 3	C41	C41	C50	C41	C50	C50	C50	C50	C60	C60	C60	C60	C60	C70	suburban						
		TC 2.5	C41	C50	C50	C50	C50	C50	C50	C60	C60	C60	C60	C60	C70	N/A	few trees, long grass						
		TC 2	C41	C50	C50	C50	C50	C60	C50	C60	C60	C60	C60	C70	C70	N/A	open grass						
		TC 1.5	C50	C50	C60	C50	C60	C60	C60	C60	C70	C70	C70	C70	N/A	N/A	water, ocean						
		TC 1	C50	C60	C60	C60	C60	C60	C60	C60	C70	C70	C70	N/A	N/A	N/A	lake, open terrain						
Port Headland to Carnarvon WA <50km inland	D	TC 3	C50	C60	C60	C50	C60	C60	C60	C70	C70	C70	C70	C70	N/A	N/A	suburban						
		TC 2.5	C50	C60	C60	C60	C60	C70	C60	C70	C70	C70	N/A	N/A	N/A	N/A	few trees, long grass						
		TC 2	C60	C60	C70	C60	C70	C70	C70	C70	C70	N/A	N/A	N/A	N/A	N/A	open grass						
		TC 1.5	C60	C70	C70	C70	C70	N/A	C70	N/A	N/A	N/A	N/A	N/A	N/A	N/A	water, ocean						
		TC 1	C60	C70	C70	C70	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	lake, open terrain						
Definition > See AS4055 Table 2.3			Topographic Slope Slope in degrees >			< 1:20 very flat < 2.9			< 1:10 flat < 5.7			< 1:7.5 small hill < 7.6			< 1:5 medium hill < 11.3			< 1:3 steep hill < 18.4			< 1:3 cliff < 18.4		

Legend: Wind Speed, Classification & Colour						
Permissible Stress notation (previous usage) ->	W28N	W33N	W41N	W50N	W60N	W70N
Abbreviated notation in table ->	W28	W33	W41	W50	W60	W70
BCA Notation ->	N1	N2	N3	N4	N5	N6
Permissible Stress notation (previous usage) ->			W41C	W50C	W60C	W70C
Abbreviated notation in table ->			C41	C50	C60	C70
BCA Notation ->			C1	C2	C3	C4

Note: Definitions and notations come from the AS4055 code

FS - Full shielding - surrounded by at least 2 rows of housing

PS - Partial shielding - surrounded by at least 1 row of housing

NS - No shielding - house facing open park area

N/A - Not applicable - use Wind Code AS1170.2

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