

AS/NZS 1170.2:2021 Structural design actions Part 2: Wind actions

Amendment No. 2

Revised text amendment

Publishing and Approval Dates

Council of Standards Australia Approval: 5 June 2024

New Zealand Standards Approval Board Approval: 5 June 2024

Published: 28 June 2024

Summary

This Amendment applies to the following elements:

- Clauses 1.4.42, 1.5, 2.5.5, 2.5.6, 4.4.2, 5.3.1.1, 5.3.1.2, 5.3.1.3, 5.3.2.1, 5.3.2.2, 5.3.2.3, 6.4.3, B.6.1, B.6.3, E.4
- Figures 3.1(A), 4.2, B.13, C.2
- Tables 3.1(A), 6.2
- Bibliography

Amendment Details

AS/NZS 1170.2:2021 is amended as follows. The amendments should be inserted in the locations as instructed.

Element	Instruction/New text
CI 1.4.42	Delete term entry and <i>replace</i> with the following: ridge two-dimensional crest of a topographic feature or chain of hills with sloping faces on either side of the crest, or the intersection of two surfaces of a pitched roof
CI 1.5	Delete notation entry “w” and <i>replace</i> with the following: w = width of a tower; or = shortest horizontal dimension of the building; or = span width of a horizontal structure such as an elevated pipeline or gantry
CI 2.5.5	NOTE 3, second line, after “Regions”, add “B2,”.
CI 2.5.6	First line, after “Regions”, add “B2,”.

Element **Instruction/New text****Tbl 3.1(A)** *Delete table and replace with the following:***Table 3.1(A) — Regional wind speeds — Australia**

Regional wind speed (m/s)	Regions				
	Non-cyclonic		Cyclonic		
	A (0 to 5)	B1	B2	C (maximum)	D (maximum)
V_1	30	26	26	23	23
V_5	32	28	28	33	35
V_{10}	34	33	33	39	43
V_{20}	37	38	38	45	51
V_{25}	37	39	39	47	53
V_{50}	39	44	44	52	60
V_{100}	41	48	48	56	66
V_{200}	43	52	52	61	72
V_{250}	43	53	53	62	74
V_{500}	45	57	57	66	80
V_{1000}	46	60	60	70	85
V_{2000}	48	63	63	73	90
V_{2500}	48	64	64	74	91
V_{5000}	50	67	67	78	95
V_{10000}	51	69	69	81	99
V_R ($R \geq 5$ years)	$67-41R^{-0.1}$	$106-92R^{-0.1}$	$106-92R^{-0.1}$	$122-104R^{-0.1}$	$156-142R^{-0.1}$

NOTE 1 The peak gust has an equivalent moving average time of approximately 0.2 s (Holmes and Ginger, 2012).

NOTE 2 Values for V_1 have not been calculated by the formula for V_R in the Australian regions.

NOTE 3 For ultimate or serviceability limit states, refer to the National Construction Code (Australia) or AS/NZS 1170.0 for information on values of importance level and annual probability of exceedance appropriate for the design of structures. For buildings in townships in cyclonic regions, users should consider overall risk to a community when selecting importance levels.

NOTE 4 For Regions C and D, only the maximum values for the region are tabulated. Lower values of V_R may apply in those regions, depending on the distance of the site from the smooth coastline.

NOTE 5 The classification of cyclonic and non-cyclonic regions in this table reflects the type of wind event expected to govern the ultimate limit state design conditions for most buildings. Low average recurrence interval wind gusts in all regions are generally associated with non-cyclonic events, and it is possible for very high average recurrence interval events in parts of region A0 or B1 to be associated with tropical cyclones.

Fig 3.1(A) *Delete figure and replace with the following:*

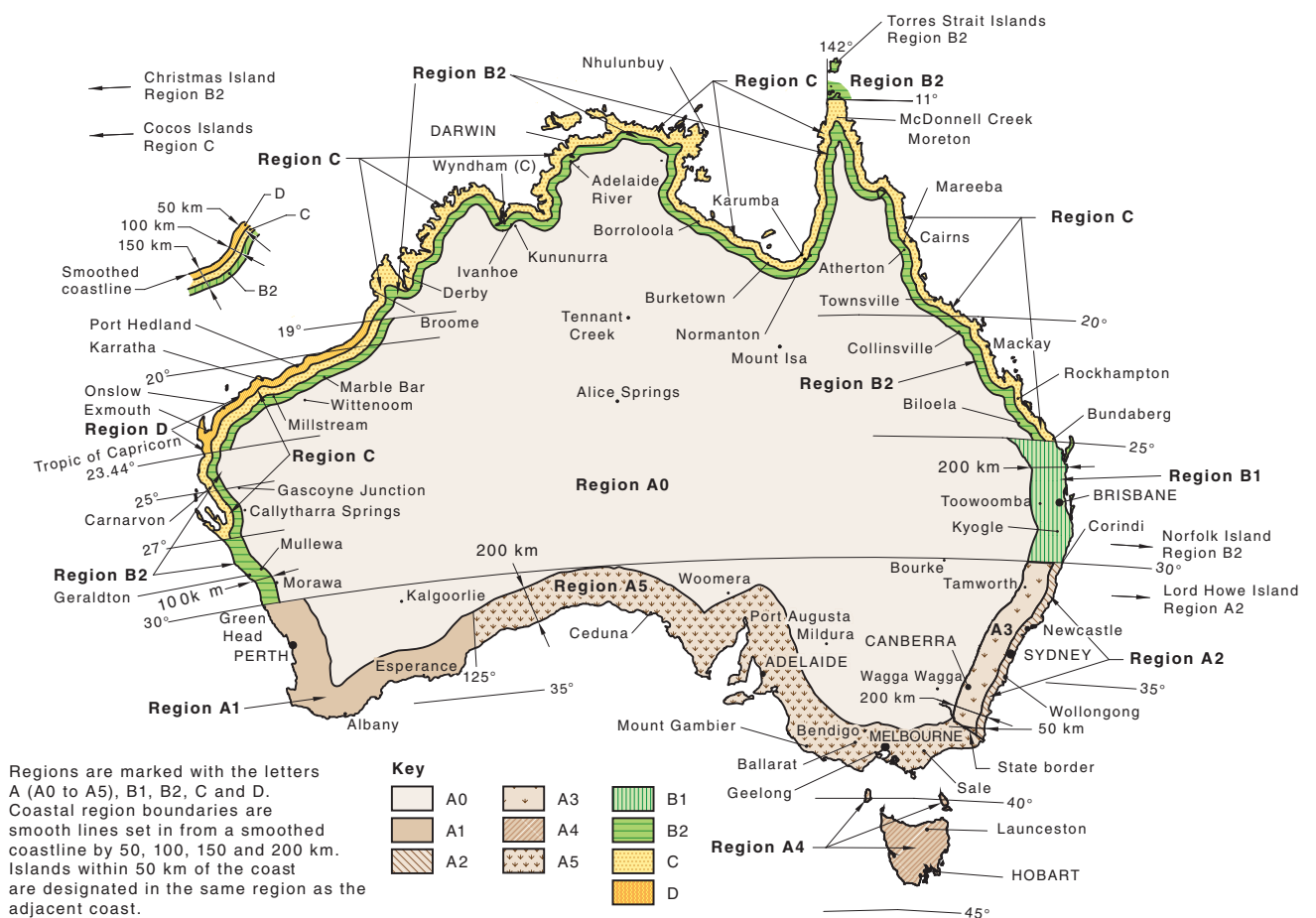


Figure 3.1 — (A) — Wind Regions — Australia