

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

Amendment No. 1

Correction amendment

Publishing and Approval Dates

Council of Standards Australia Approval: 12 April 2023

New Zealand Standards Approval Board Approval: 1 March 2023

Published: 05 May 2023

Summary

This Amendment applies to the following elements:

- Preface
- Clauses 1.1, 1.5, 5.4.3, 6.3, 6.4.1, 6.4.2, 6.4.3, 6.5.1, 6.5.2.1, 6.6.1, 6.6.2, A.3, A.5.2.1, C.3.2, E.2, E.3.2, E.4
- Tables 4.4, 5.1(B), 5.3(A), 5.3(C), 5.6, 6.1, A.1
- Figures 5.3, 6.4, 6.5, 6.6, D.1

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
Preface	1 Fifth paragraph, Item (s), <i>delete</i> "Clause 6.1" and <i>replace</i> with "Clauses 6.1 to 6.3".
	2 Fifth paragraph, Item (u), <i>delete</i> "(Clause 6.3.2.3)" and "(Clause 6.3.3)" and <i>replace</i> with "(Clause 6.5.2.3)" and "(Clause 6.5.3)" respectively.
	3 Fifth paragraph, Item (v), <i>delete</i> "(Clause 6.4.1)" and <i>replace</i> with "(Clause 6.6.1)".
Cl 1.1	NOTE 2, <i>delete</i> "Clause 6.1" and <i>replace</i> with "Clause 6.3".
Cl 1.5	1 In symbol C_c , <i>delete</i> "(Clause 6.3.3.1)" and <i>replace</i> with "(Clause 6.5.3.1)".
	2 In symbol c_1 , c_2 , <i>delete</i> "(Clause 6.3.3.1)" and <i>replace</i> with "(Clause 6.5.3.1)".
	3 In symbol K_a , <i>delete</i> "(Clause 6.3.3.1)" and <i>replace</i> with "(Clause 6.5.3.1)".
	4 After symbol K_v , <i>add</i> the following: K_θ = torsional stiffness (Clause E.4)

Element **Instruction/New text****Tbl 4.4** *Delete table and replace with the following:***Table 4.4 — New Zealand lee zones direction and extent of shadow and outer zones**

Range		Direction	M_{lee}	Shadow km	Outer km
North Island					
1.	Kaimai	E&SE	1.20	0 to 8	8 to 20
2.	Taranaki	Any, taken to be 90° sector from mountain top downwind to location	1.35	0 to 12	12 to 30
3.	Ruapehu	NW and SE	1.35	0 to 12	12 to 30
4.	Tararua	SE	1.20	0 to 8	8 to 20
5.	Tararua and Orongorongo	NW	1.20	0 to 8	8 to 20
6.	Coastal Wairarapa	NW	1.20	0 to 8	8 to 20
South Island					
7.	West Coast North	E and SE	1.20	0 to 8	8 to 20
8.	West Coast Alps	SE	1.35	0 to 12	12 to 30
9.	Awatere	NW	1.35	0 to 12	(shadow zone for Inland Kaikoura)
10.	Inland Kaikoura	NW	1.35	0 to 12	(shadow zone for Southern Alps)
11.	Southern Alps	NW	1.35	0 to 12	12 to 30
12.	Hunter	SW	1.20	0 to 8	8 to 20
13.	Hakataramea	NW	1.20	0 to 8	8 to 20
14.	St Mary's	SW	1.20	0 to 8	8 to 20
15.	Pisa	NW	1.20	0 to 8	8 to 20
16.	Dunstan	NW	1.20	0 to 8	8 to 20
17.	Rock and Pillar	NW	1.20	0 to 8	8 to 20

Tbl 5.1(B) Delete table and replace with the following:

Table 5.1(B) — Internal pressure coefficients ($C_{p,i}$) for buildings with openings greater than 0.5 % of the area of the corresponding wall or roof

Ratio of area of openings on one surface to the sum of the total open area (including permeability) of other wall and roof surfaces	Largest opening on windward wall	Largest opening on leeward wall	Largest opening on side wall	Largest opening on roof
0.5 or less	-0.3, 0.0	-0.3, 0.0	-0.3, 0.0	-0.3, 0.0
1	-0.1, 0.2	-0.3, 0.0	-0.3, 0.0	-0.3, 0.0
2	$0.7 K_a K_\ell C_{p,e}$	$K_a K_\ell C_{p,e}$	$K_a K_\ell C_{p,e}$	$K_a K_\ell C_{p,e}$
3	$0.85 K_a K_\ell C_{p,e}$	$K_a K_\ell C_{p,e}$	$K_a K_\ell C_{p,e}$	$K_a K_\ell C_{p,e}$
6 or more	$K_a K_\ell C_{p,e}$	$K_a K_\ell C_{p,e}$	$K_a K_\ell C_{p,e}$	$K_a K_\ell C_{p,e}$
				

NOTE 1 $C_{p,e}$ is the relevant external pressure coefficient at the location of the largest opening. For example, in Column 2, $C_{p,e}$ means the windward wall pressure coefficient obtained from Table 5.2(A); in Column 3, $C_{p,e}$ means the leeward wall pressure coefficient obtained from Table 5.2(B), in Column 5, $C_{p,e}$ means the roof pressure coefficient for that part of the roof containing the opening.

NOTE 2 K_a is the area reduction factor related to the total area of the opening(s), A , on the surface under consideration treating the “tributary area” as the area of the opening. See Clause 5.4.2.

NOTE 3 K_ℓ is the local pressure factor, based on the area and location of the opening on the surface under consideration, treating the “Area, A ” as the area of the opening. See Clause 5.4.4.