AS/NZS 1170.3:2003 (R2016) Structural Design Actions - Snow and ice actions

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Abbreviation
AS/NZS 1170.3:2003
Amendment
Amendments 1, 2 - incorporated.
Version
Reconfirmed in 2016
Valid from
15/01/2003

Information provider
Standards New Zealand
Author
Standards New Zealand, Standards Australia
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New Zealand Standard
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Cited By
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Description

This Standard provides design values of snow and ice actions for use in structural design.

It is intended to be used in conjunction with AS/NZS 1170.0,which gives the procedure for structural design. Snow regions are defined and ground snow loads are provided for a range of annual probabilities of exceedance.

Other factors cover the environment around the structure, the geometry of the structure and the effect of winds on snow distribution.

Scope

This Standard sets out procedures for determining snow actions on roofs and ice actions to be used in the structural design of structures. This Standard is to be read in conjunction with AS/NZS 1170.0. The principles given in this Standard are generally applicable to all structures. This Standard does not cover the following:

- (a) Impact resulting from snow or ice sliding off or falling from a higher roof;
- (b) Action that could occur if snow and ice block drainage systems;
- (c) Actions resulting from snow and ice on bridges;
- (d) The additional wind loads which could result from changes in shape or size of the building structure due to the presence of snow or the accretion of ice;
- (e) Sites where snow is present all the year or at altitudes above 1800 m in New Zealand;
- (f) Lateral loading on structures due to snow on the ground (e.g. lateral loads exerted by drifts);
- (g) Vulnerability of a site to avalanche, avalanche blast and landslide;
- (h) Increase in load due to heavy rain falling on snow; and
- (i) Possible changes to snow loads due to future climatic changes.

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