

Design Criteria for Steel Sheds & Garages

Importance Levels for Sheds: The BCA defines four Importance levels.

- Level 1 Buildings with a low degree of hazard to life and other property
- Level 2 Default level - Buildings not assigned levels 1, 3 or 4
- Level 3 Buildings designed to contain a large number of people
- Level 4 Buildings essential to post-disaster recovery or associated with hazardous facilities

BUILDING DESCRIPTION	BCA CLASS	FAILURE CONSEQUENCES		IMPORTANCE LEVEL
		HUMAN HAZARD	PUBLIC IMPACT	
Farm Shed	10a	Low	Low	1
Residential shed or garage	10a	Mod	Low	2
Small school shade structure	9b	Mod	Mod	2
Shearing shed	8	Sub	Mod	2
Large commercial storage warehouse	7b	Mod	Sub	3
Large (250+) school assembly shelter	9b	Sub	Sub	3
Shed housing hospital emergency generator	10a	Sub	Ext	4
Emergency vehicle shed	10a	Sub	Ext	4

TERRAIN CATEGORY DESCRIPTIONS	
TC2	Water surfaces, open terrain, grassland with few, well-scattered obstructions having heights generally from 1.5 m to 10 m.
TC2.5	Partially Open Terrain. Terrain with few trees, or close to boundary of suburban terrain.
TC3	Terrain with numerous closely spaced obstructions 3 m to 5 m high such as areas of suburban housing.

SHIELDING





- Shielding is a local development effect. It reduces the design wind speed by taking into account the protection afforded by upwind local buildings.
- A shielding multiplier of 1.0 should be applied outside suburban areas unless a site survey has been conducted to support a lower value.

Choose The Right Shed

Shed Design Criteria Selector

Location:
Wind Regions
For Australia
(AS/NZS 1170:2)

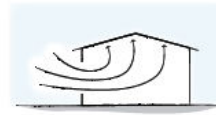


		 50km	 50km	 50km
Wind Region	Region A1 - A5	Region B	Region C	Region D
Regional Wind Speed	45 m/s (metres per second)	57 m/s	69 m/s	88 m/s
Farm Sheds Wind Speed	41 m/s	48 m/s	64 m/s	79 m/s

Extreme Weather Conditions



Snow loading may be required at higher altitudes



Cyclonic designs are required for regions C and D

Building Use



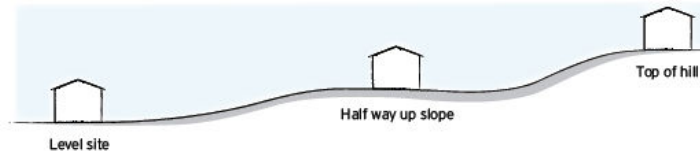
Building Use	Domestic	Farm Shed	Industrial/Commercial	Institutional
Design Importance Level	2	1	2	2 or 3 or 4

Terrain



Site Terrain	Open	Semi-open	Suburban
Terrain Category	TC 2	TC 2.5	TC 3

Topography



AUSTRALIAN STEEL INSTITUTE
STEEL SHED GROUP
It's an Australian Standard

Your Steel Shed Group member can assist with a shed design to comply to current Australian standards

The design criteria is required to be confirmed by your building surveyor or local council