
SITE SPECIFIC DESIGN CRITERIA ANALYSIS



Issued:
03/09/2024

Prepared for:
Billy Mcmaugh
92 Angus Dr
Failford NSW 2430

Supplier:
Wide Span Sheds

Assessment Ref:
STX24090028EN

Building Details:

Span: 12
Length: 15
Avg. Height: 5.068

Assesment basis:

NCC 2022
AS/NZS 1170.2:2021
AS/NZS 1170.3:2003
AS1170.4:2007
AS/NZS 3500.3:2021

Certified by:



J. Ronaldson
for and on behalf of
Apex Engineering Group PTY LTD
(ACN 632 588 562)

Member Institution of Engineers (Aust.), CPEng (NER Structural) Regn. No. 5276680
Registered Professional Engineer (Structural) - Queensland: Regn. No. 24223
Registered Professional Engineer (Structural) - Victoria: Regn. No. PE0003848
Registered Building Designer & Professional Engineer (Structural) - Tasmania: Regn. No. 185770492



Site Location:

Geographic coordinates of
-32.09076,152.4526

The address provided for reference purpose only is:
92 Angus Dr Failford NSW 2430

Executive Summary - Site Specific Analysis

The design analysis of the building has not been considered for each of the 4 orthogonal directions. Hence the maximum wind speed in any of the 8 cardinal directions has been used as the design wind speed. This is a conservative approach.

Each cardinal direction has been considered and the results are summarised below

Factor	N	NE	E	SE	S	SW	W	NW
Wind Region	A2							
Importance level (IL)	2							
Distance from Smoothed Coastline	N/A							
Regional Wind Speed (Vr)	45.0							
Climate Change Factor (Mc)	1							
Terrain Category (TC)	2.73	2.61	2.64	2.42	2.49	2.46	2.5	2.6
Terrain Category Multiplier (Mz)	0.85	0.86	0.86	0.88	0.87	0.87	0.87	0.86
Shielding Multiplier (Ms)	1	1	1	1	1	1	1	1
Topographic Multiplier (Mt)	1	1	1	1	1	1	1	1
Wind Direction Multiplier 1 (Md1)	0.85	0.75	0.85	0.95	0.95	0.95	1	0.95
Site specific design wind speed (Vsite1)	32.6	30	32.9	37.5	37.3	37.4	39.2	36.9

Wind Direction Multiplier 2 (Md2)	0.85	0.75	0.85	0.95	0.95	0.95	1	0.95
Site specific design wind speed (Vsite2)	32.6	30	32.9	37.5	37.3	37.4	39.2	36.9

Design Wind Speed (Vsite1)	39.2 m/s	for the resultant forces and overturning moments on the complete building and wind actions on major structural elements.
Design Wind Speed (Vsite2)	39.2 m/s	for cladding and immediate supporting structures (Purlins and Girts)
Snow Load	Nil	
Earthquake	0.08	Hazard Design Factor (Z)
Durability Alert	Yes	It is likely that the building is subject to a Marine Influence and Industrial Influence. You should satisfy yourself that any BlueScope or other warranties specific for your site are satisfactory for your purpose. Amongst other sources, you should contact BlueScope on 1800 800 789.
Rainfall Intensity	232mm/hr	5% AEP
Rainfall Intensity	319mm/hr	1% AEP