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16 July, 2013

To whom it may concern

This certification is done in accordance with the purchaser of the building's advice that they have sought and obtained independent confirmation that the design criteria nominated below is appropriate for the site. Any approving authority should also confirm that the design criteria nominated below is appropriate for the site.

The structural design of the steel building (as detailed in drawing SSWZ130064, see index below) for Jadco Homes to be built at 55 Chain o ponds Road MULGOA NSW Australia 2745 has been carried out by me using the Multiframe Structural Engineering Analysis Program.

The design has been done in accordance with the BCA:2013, AS/NZS 4600:2005, AS/NZS 1170.1:2002, AS/NZS 1170.2:2011, AS 4055:2006, AS 4100:1998, AS 2870:2011 and AS 3600:2009.

Design Criteria: Wind Region - A1; Building Class - 10; Importance Level of 2; Terrain Category of 2.5; Topographic Factor of 1; Shielding: None (1.0); Wind Directional Multiplier (Md) of 1.0; No allowance has been made for earthquake loading. No allowance has been made for snowload. Refer to attached Design Information Sheet for more details.

Drawing Number	Date	Description
Job SSWZ130064 - 2	16/07/2013	General Notes
Job SSWZ130064 - 3	16/07/2013	Layout
Job SSWZ130064 - 4	16/07/2013	Specification Sheet
Job SSWZ130064 - 5	16/07/2013	Bracing
Job SSWZ130064 - 6	16/07/2013	Concrete Piers
Job SSWZ130064 - 7	16/07/2013	Slab
Job SSWZ130064 - 8	16/07/2013	Connection Details
Job SSWZ130064 - 9	16/07/2013	Flashing Fixing Details

Signed

R. J. Showers
for and on behalf of
SHOWERS ENGINEERING PTY LTD
(ACN 075 007 144)

Design Information Sheet

Building Details

Item	Design Value		
Building Description	Portal Design Steel Frame and Steel Clad Building		
Job Reference #	130064		
Site Address	55 Chaulie ponds Road MULGOA NSW 2745		
Building Classification	Class 10		
Effective Design Height	4.93m		
	Main Building	Left Leanto	Right Leanto
Length	20m	NA	NA
Bay size	5 evenly spaced	NA	NA
Span	10m	NA	NA
Roof Pitch	12 degrees	NA	NA

Pressure Coefficients

Item	Design Value	Reference
Internal Pressure coefficient (C _{pi})	0, -0.3	AS NZS 1170.2 Clause 5.3
Windward Wall (External Across)	0.7	AS NZS 1170.2 Table 5.2 (A)
Windward Rafter (External Across)	-0.81, -0.36	AS NZS 1170.2 Table 5.3 (B)
Leeward Rafter (External Across)	-0.5	AS NZS 1170.2 Table 5.3 (C)
Leeward Wall (External Across)	-0.3	AS NZS 1170.2 Table 5.2 (B)
Side Wall (External Along)	-0.65	AS NZS 1170.2 Table 5.2 (C)
Rafters (External Along)	-0.9, -0.4	AS NZS 1170.2 Table 5.3 (A)
Local Pressures Applied	Yes	AS NZS 1170.2 Table 5.6

Site Classification

Item	Design Value	Reference
Wind Region	A1	AS NZS 1170.2:2011 Fig 3.1 (A)
Importance Level	2	B,C,A
Annual Probability of Exceedance for Wind	1 in 500	B,C,A
Regional Wind Speed	45 m/s	AS NZS 1170.2 Table 3.1
Wind Direction Multiplier (M _d)	1	AS NZS 1170.2 Clause 3.3
Terrain Category	2.5	AS NZS 1170.2 Clause 4.2.1
Terrain Height Multiplier (M _z)	0.87	AS NZS 1170.2:2011 Table 4.1 (A)
Shielding Multiplier (M _s)	1	AS NZS 1170.2 Table 4.3
Topographic Multiplier (M _t)	1	AS NZS 1170.2 Clause 4.4
Design Wind Speed	39.2 m/s	AS NZS 1170.2 Clause 2.2
Regional Factor	NA	AS NZS 1170.2 Clause 3.4
Snow Load Factor	Nil	AS NZS 1170.3
Seismic Factor (Z)	0	AS NZS 1170.4:2007