


# Certificate of Compliance

## Structural - design

### Section 40 Building Act 1993

Mark N/A to any part that does not apply					
<b>Property/Project Details</b>					
Building permit number (if known)	Unknown		Project reference	DRW-24-0021	
Location code	N/A	LTO number	N/A	Lot number	N/A
Address	Northern Territory				
Description of works (Include all relevant details such as number of storeys, intended use etc)	<b><u>DEEMED TO COMPLY STANDARD FOR B &amp; D SERIES 1 WINDLOCKED ROLL – A – DOOR (V2)</u></b>				
<b>Documents Attached</b>					
Drawing Numbers	<b>DTCM STANDARD S01 TO S05 INCLUSIVE</b>				
Other					
<b>Design Basis</b>					
List all relevant standards and design considerations used in design. (NCC 2022 Schedule 2)					
<b>Test report no. TS1316 dated 8<sup>th</sup> December 2023 from the Cyclone Testing Station – School of Engineering and Physical Sciences at James Cook University, Principles of Mechanics, AS/NZS 1170.2:2021 Structural design actions Part 2: Wind actions, AS4100:2020 Steel structures, AS/NZS 1170.0:2002 Structural design actions Part 0: General principles, AS/NZS 1170.1:2002 Structural design actions Part 1: Permanent imposed and other actions, AS/NZS 4600:2018 Cold formed steel structures, AS/NZS 1664:1997 Aluminium structures Part 1: Limit state design, AS 3700:2018 Masonry structures, AS/NZ 4505:2012 Garage doors and other large access doors, AS 3600:2018 Concrete structures, Ramset – Specifiers Resource Handbook, Buildex Fasteners – Technical specifications.</b>					
Class of building (NCC)	<b>Class 1 and 10</b>		Is an Independent Third Party Review required? (Building Regulation 15AA)	<b>No</b>	
Type of Construction (NCC 2022 Table C2D2)	<b>N/A</b>		Building Importance Level (NCC 2022 Table B1D3a)	<b>2</b>	
Does the design contain a performance solution(s)? NCC 2022 A2G2 Note: The performance-based design brief must accompany this certificate				<b>No</b>	
Annual Probability of Exceedance for Wind (NCC 2022 Table B1D3b)			<b>1 in 500</b>		
Wind Region (AS/NZS1170.2:2021)	<b>C</b>		Regional gust wind speed $V_R$ (m/s)	<b>66m/s</b>	
Terrain category	<b>2.5</b>		Reference height (m)	<b>3m</b>	

M <sub>z cat</sub>	<b>0.87</b>	M <sub>s</sub>	<b>1</b>	M <sub>t</sub>	<b>1</b>	M <sub>c</sub>	<b>1.05</b>	M <sub>d</sub>	<b>1</b>
Design Wind Speed at reference height V <sub>des0</sub> (m/s)				<b>60.3m/s</b>					
Internal pressure coefficients (C <sub>p,i</sub> ) Provide justification in comments section below for the use of other than full internal pressures in Regions B2 and C.				<b>+0.7, -0.65</b>					
External pressure coefficients (C <sub>p,e</sub> )				<b>Walls -0.65, +0.8</b>					
				<b>Roof N/A</b>					
Net pressure coefficients (C <sub>p,n</sub> ) (AS/NZS1170.2 Appendix B)				<b>Roof / Walls N/A</b>					
Imposed Loads, kPa (AS/NZS1170.1)				<b>Floor / Roof N/A</b>					
Earthquake design category EDC (table 2.1 of AS/NZS1170.4)				<b>N/A</b>					
Hazard design factor (Z) (AS/NZS1170.4 Section 3)				<b>N/A</b>					
Class of sub-soil (AS/NZS1170.4 Section 4)				<b>N/A</b>					
Annual Probability of Exceedance for Earthquake Actions (NCC2022 Table B1D3b)				<b>N/A</b>					
Design Bearing Capacity kPa				<b>N/A</b>					
Site classification (AS2870)				<b>N/A</b>					
<b>Comments / Exclusions (Exclusions to this certificate must be clearly identified)</b>									
<b>The structure to which the door is attached shall be assessed and certified independently as required by a suitably qualified structural engineer.</b>									
<b>Comments</b>									
The subject doors are rated up to an ultimate design wind pressure of 3.2KPa (Inward direction) and 3.4KPa (Outward direction). The above wind ratings apply to a maximum allowable opening width of 3040mm. The building design engineer is to ensure that the site-specific design wind loadings do not exceed the ultimate design wind pressure ratings given in the design criteria on engineering drawings. Alternative design parameters to what are specified on engineering drawings along with alternative site-specific local pressure factors shall be adopted if needed provided the calculated ultimate design wind pressure ratings do not exceed the limits given on engineering drawings. Doors may be positioned at any location along the building envelope including all local pressure zones (i.e. corners of buildings) provided the calculated ultimate design wind pressures do not exceed the wind pressure ratings specified on engineering drawings. Designers shall take into account high local pressure areas when verifying the door ultimate design wind pressure loadings. This certificate is valid for five (5) years.									
<b>Certification by structural engineer</b>									
I certify that reasonable care has been taken to ensure that structural engineering aspects of the works described above have been designed in accordance with the requirements of the Northern Territory <i>Building Act and Regulations 1993</i> .									
Signature					Date	<b>30/04/2025</b>			
Name / nominee <sup>1</sup>	<b>Michael Hatton</b>				Individual NT BPB registration number	<b>14704ES</b>			
Registered company name (if certification is on behalf of a registered company)				<b>Focus Building Approvals Pty Ltd</b>					
Company NT BPB registration number				<b>255591ES</b>					

### Schedule of structural inspections required

- 1) Inspections are required to be carried out by either the certifying engineer or the building certifier who issued the building permit for the work. (If no inspections are indicated refer to the certifying engineer for advice).
- 2) Where works are prescribed building works under the *Building Act 1993*, the building certifier must be provided with a copy of the inspection record and no further works must be carried out by the builder until the building certifier issues a release to proceed with further works.
- 3) Additional non-structural inspections may be required during the course of construction before the issue of an occupancy permit (refer to building certifier for requirements).
- 4) Failure to obtain inspections may prevent the issue of an occupancy permit upon completion of the building works.

### Schedule of structural inspections for works covered by this certificate

Completion of site preparation/site filling/excavations for footings prior to placement of any reinforcement or concrete.	No
Completion of preparations for placing of concrete strip footings including placement of reinforcement.	No
Completion of preparations for placing concrete slabs including compaction of fill and sand blinding, placement of formwork, reinforcement, starter bars and cast in items.	No
Completion of preparations for placing of concrete pier footings including reinforcement (if any).	No
Starter bars and cast in items after placing of concrete and prior to any covering up work.	No
Reinforcement to walls completed prior to core filling (inspection holes and cleanout cores to be completed).	No
Structural steelwork and cold formed steelwork completed and prior to any covering up work. Floor framing system completed before floors are laid or underside is lined.	No
Suspended concrete floor slabs with formwork, reinforcement and cast in items completed, prior to placing of concrete.	No
Wall framing or blockwork wall core filling completed (with windows fixed in place) and roof framing with connections completed and prior to sheeting or lining.	No
<ul style="list-style-type: none"> <li>• Prior lodgement of truss manufacturer's drawings, details and certification required</li> </ul>	No
<ul style="list-style-type: none"> <li>• Prior lodgement of windows manufacturer's drawings including fixings and certification required</li> </ul>	No
Structural wall linings completed and prior to any covering up work.	No
Final inspection upon completion of all structural work including fixings of external roof and wall claddings, flashings, barges and vents.	Yes
Other inspections	No
If other, please specify	