

**NORTHERN TERRITORY OF AUSTRALIA
BUILDING ACT
SECTION 40 – CERTIFICATE OF COMPLIANCE – STRUCTURAL DESIGN**

PROPERTY / PROJECT DETAILS	
Owner (if known):	
Lot/Portion Number:	Address:
Location:	Town / Hundred :
Description of works : PROPOSED KIT-FORM SHED, AWNING or CARPORT	

DOCUMENTS ATTACHED (as built drawings or latest amendments)
<p>Drawing Nos: This certificate covers the full range of ABSCO products as outlined on the following drawings:</p> <p>NJA Consulting Pty Ltd Drawings:</p> <p>Carports: Drawings: 06205-003-CP01, CP02A, CP3 to CP06, CP07A, CP08, CP09</p> <p>Awnings Drawings: 06205-003-AW01A, AW02A, AW05</p> <p>Garages Drawings: 06205-003-GR01A, GR02A, GR03B to GR11B, GR12A, GR13B, GR14A, GR15B</p> <p>Connections Drawings: 06205-003-CN01</p>
<p>Other Related Documents:</p> <ol style="list-style-type: none"> 1. Schedule of inspections : see over 2. PI INSURANCE CERTIFICATE (attached)

DESIGN CERTIFICATE CRITERIA
<p>The structural design for the range of ABSCO kit-form buildings has been undertaken in accordance with the following design conditions.</p> <ul style="list-style-type: none"> ➤ NCC - Building Code of Australia (2016) – Volume 2 – Class 1 and Class 10 Buildings ➤ AS1170.0-2002 - Structural design actions Part 0 General Principles ➤ AS1170.1-2002 - Structural design actions Part 1 Permanent, imposed and other actions ➤ AS1170.1-2011 - Structural design actions Part 2 Wind Actions ➤ AS1170.3-2003 - Snow Loads ➤ AS3600 - 2009 - Concrete Structures ➤ AS4100 - 1998 - Steel Structures ➤ AS4055 - 2012 - Wind loads for Housing ➤ AS4600 - 2005 - Cold-formed Steel Structures ➤ AS2870 - 2011 - Residential Slabs and Footings – Construction. ➤ Ramset - Specifiers Resource Book ➤ Buildex Fasteners - Technical Specification ➤ Low-High-Low testing of cyclonic area roof sheeting by University of Adelaide. <p>Class of Building (BCA) : 10a Building Importance Level: (BCA Table B1.2a): 2 Annual Probability of Exceedance for wind: 1 in 500</p>

COMMENTS / EXCLUSIONS (Exclusions to this Certificate must be clearly identified).

- This certificate relates to the structural aspects of the building only.
- The slab and footings nominated on the drawings are suitable for class A, S, M & H site classifications (awnings, garden sheds and carports), class A, S & M site classifications (garages) in accordance with AS2870. The applicant shall seek advice from a local building practitioner should the site classification fall outside of this range ie class H, E and P sites. The founding material shall have a minimum safe bearing capacity of 75kPa.
- The building shall be constructed in accordance with the design drawings and ABSCO assembly manuals. NJA accept no responsibility whatsoever for the performance of structures not constructed strictly in accordance with these documents.
- The structures are designed to sustain the wind loads nominated on the drawing for Group 1, Group 2 and Group 3 wind loadings. The site wind classification shall be derived in accordance with AS4055. Structural wind loads have been derived using AS1170.2-2002.

The following criteria are applicable to structure wind loads:

Structure Importance Level: 2

Annual probability of exceedance: 1:500

Topographic Classification: T1

Internal Pressure Coefficients

N2, N3 garages: +0.2, -0.3 (non-cyclonic)

C1 garages: +0.7, -0.3 (cyclonic)

The structures are rated to meet the wind classifications nominated on the plans. The onus is on the building certifier or local authority to ensure that the wind classification relevant to the intended siting of the ABSCO product does not exceed the product's individual wind rating. The site wind classification shall be determined in accordance with AS4055 Table 1 for topographic classification T1, for the relevant wind region. **NJA Consulting will not be providing site specific wind data as part of this certification. Should the certifier require site specific wind data, then they shall refer the applicant to a suitably qualified local building practitioner.**

- All glazed windows and doors to be designed and certified by window manufacturer. The glazing shall be designed to the Wind Classification System specified above, as defined in AS4055-1992. The glazing manufacturer shall satisfy the requirements of AS2047 for the specified Wind Classification System. The wind classification system has been determined on the basis of the following additional assumptions:-
 - Flat site. Where the site is not generally flat (i.e. average slope steeper than 1:10), advise the certifying engineer for a possible reclassification of the glazing requirements.
- This certificate shall not be construed as relieving any party of their contractual responsibilities and is valid until 8 October 2019. Beyond the date the certification will be carried by another engineering consultant.

CERTIFICATION BY STRUCTURAL ENGINEER

Company Name if certification issued on behalf of a corporation

NJA CONSULTING PTY LTD

Company NT Registration Number: 53639ES

I certify that reasonable care has been taken to ensure that the structural engineering aspects of the works as described above have been designed in accordance with the requirements of the Building Code of Australia and the Northern Territory Building Regulations.

Name (see *below)

Darren John McDonald

**Nominee/Individual
NT Registration Number**

24619ES

Signature

Date

8 October 2018

* Name and registration number of nominee signing on behalf of the company or if no company, name of individual issuing certification.

SCHEDULE OF STRUCTURAL INSPECTIONS (CERTIFIER TO DETERMINE REQUIREMENTS)

- [] 1. Completion of site preparation/site filling/excavations for footings prior to placement of any reinforcement or concrete.
- [] 2. Completion of preparations for placing of concrete strip footings including placement of reinforcement.
- [*] 3. **Completion of preparations for placing concrete slabs including compaction of fill and sand blinding, placement of formwork, reinforcement, starter bars and cast in items.**
- [] 4. Completion of preparations for placing of concrete pier footings including reinforcement (if any).
- [] 5. Starter bars and cast in items after placing of concrete and prior to any covering up work.
- [] 6. Reinforcement to walls completed prior to core filling (inspection holes and cleanout cores to be completed).
- [*] 7. **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.**
- [] 8. Suspended concrete floor slabs with formwork, reinforcement and cast in items completed, prior to placing of concrete.
- [] 9. 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.

Note: [] Prior lodgement of truss manufacturer's drawings, details and certification required.
[] Prior lodgement of windows manufacturer's drawings including fixings and certification required.
- [] 10. Structural wall linings completed and prior to any covering up work.
- [] 11. Final inspection upon completion of all structural work including fixings of external roof and wall claddings, flashings, barges & vents.
- [] 12. Other Inspections

Important Information:

- 1) The above 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 *NT Building Act*, 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.

TK SPECIALTY RISKS PTY LTD
ABN: 21 608 877 783
Representative No: 001237371
Corporate Authorised Representative
Millennium Underwriting Agencies Pty Ltd – AFSL No: 246721

Certificate of Currency

Insured: NJA Consulting Pty Ltd

Professional Services: Consulting Engineers.

Class of Insurance: Professional Indemnity Insurance

Policy Number: TKSCC171006100

Policy Term: From 4pm 8/10/2018 to 4pm 8/10/2019

Limit of Liability: Professional Indemnity: \$3,000,000

Wording: TKSR CCB 2018

Retroactive Date: Unlimited, excluding known claims and/or circumstances

Insurer: 100% Certain Underwriters at Lloyd's

The above is a brief outline of the Policy only, and coverage is at all times subject to the terms and conditions of the Policy.



T Kent
Authorised Officer
Millennium Underwriting Agencies Pty Ltd

Date: 08/10/2018