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

All sections must be completed – mark N/A to any question that does not apply

Address:

Description of works:

B & D WINDPANEL™ REINFORCED SECTIONAL DOOR WITH VERTICAL BRACES AND TRACKLOCK - 2.64m HIGH X 6.15m WIDE MAXIMUM FOR USE IN WIND REGION C, TERRAIN CATEGORY 2 AND UP TO A MAXIMUM ULTIMATE WIND PRESSURE RATING AS STIPULATED ON

Town / Hundred:

PROPERTY / PROJECT DETAILS

ENGINEERING DRAWINGS (attached)

DOCUMENTS ATTACHED

Owner (if known):

Location:

Drawing Nos:

Lot/Portion Number:

Engineering Dr	awing Numbers 21	191/S01J, 2191/S0)2J, 2191	/\$03J and 2	2191/S04J by James E	Ilis & Assoc	iates Pty Ltd (attached)	
Other:								
Test report no James Cook Un Steel structure Part 1: Perman Part 1: Design AS4505:2012 G	s. TS917 and TS8 liversity, Principle s, AS/NZS 1170.0: lent imposed and of methods, AS/NZS Garage doors and c	es of Mechanics, AS 2002 Structural do other actions, AS/I 1664:1997 Alumin	om the Cy S/NZS 117 esign acti NZS 4600 iium struc doors, AS	clone Testi 70.2:2011 S ons Part 0: :2005 Cold ctures Part	structural design actio General principles, A formed steel structur	ons Part 2: \ S/NZS 1170 es, AS1720 AS3700:20	g and Physical Sciences at Wind actions, AS4100:1998 0.1 Structural design actions 0.1:2010 Timber structures 11 Masonry Structures, pecifiers Resource	
Class of Building (BCA): As per NCC				Type of Construction (BCA volume 1 §C1.1): N/A (eg. Type A fire-resisting construction)				
Building Importa	ance Level (BCA Ta	able B1.2a): 2		Annual Probability of Exceedance for Wind (BCA Table 1.2b): 1 in 500				
Region: C	Regional ultimat	e wind speed V _R (m	nd speed V _R (m/s): 69.3 m		Terrain Category:	2 F	Reference height (m): 2.64m	
M _{z,cat} : 0.91	M _s : 1	M _t : 1			V _{desθ} Design Wind Sp	n Wind Speed at reference height (m/s): 63.06m/s		
Internal Pressur	e Coefficients (C _{p,i}):	II		+0.6, -0.3			
	re Coefficients (C_p)		3		-0.65	, +0.8		
		Roof	_	N/A				
Net Pressure Co Imposed Loads	oefficients: (C _{p,n})	Roof / Walls Floor / Roof				/A /A		
Annual Probability of Exceedance for Earthquake Actions (BCA Table 1.2b): 1 in N/A Importance Level (BCA): N/A Hazard Factor, Z (Section 3): N/A Class of Sub-Soil (Section 4): Safe Foundation Bearing Capacity, kPa: N/A Site classification (AS2870): N/A COMMENTS / EXCLUSIONS (Exclusions to this Certificate must be clearly identified).								
		•			·		had including lighted bands	
					ied independently as		hed including lintel heads, y a suitably qualified	
drawings. The exceed the ulti specified on en calculated ultin positioned at a	building certifier of imate design wind ngineering drawing mate design wind ny location along	or project enginee pressure ratings g gs along with alter pressures do not e the building envel	er is to en given on e native sit exceed the lope inclu	sure that t engineering e specific l e pressure ding all loo	he site specific ultima drawings. Alternativo ocal pressure factors ratings given on engir	ite design we design pa may be ado neering dra . corners of	wings. Doors may be f buildings) provided the	
		CERTIFICA	TION B	Y STRUC	TURAL ENGINE	<u> </u>		
Company Nam	e : James Ellis & F	Associates Pty Ltd			Company NT Registra	ation Numb	er : 189148ES	
							orks as described above have by Building Regulations.	
Name : James		l NT ion Number : 4742	29ES	Sign	ature		Date: 16 th June 2014	
							Page 1 of 2	

SCHEDULE OF STRUCTURAL INSPECTIONS REQUIRED

Inspection of construction is required at all stages indicated below.

[] 1.	Completion of site preparation/site	filling/excavations for foo	otings prior to placem	nent of any rei	nforcement 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. Reinforcement to walls completed prior to core filling (inspection holes and cleanout cores to be completed). []6 [] 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. [] Prior lodgement of truss manufacturer's drawings, details and certification required. Note: [] 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,

Important Information:

flashings, barges & vents.

[] 12. Other Inspections as required by the building permit

- 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 a Permit to Occupy (refer to building certifier for requirements).
- 4) Failure to obtain inspections may prevent the issue of a Permit to Occupy upon completion of the building works.