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:

B & D ROLL-A-SHUTTERS WITH WIND CLIPS FOR USE IN WIND REGION C, TERRAIN CATEGORY 2 AND UP TO A MAXIMUM ALLOWABLE

Test report no. TS914 from the Cyclone Testing Station - School of Engineering and Physical Sciences at James Cook University, Experiments conducted on the 9th April, 2nd May and 6th May 2013, Principles of Mechanics, AS/NZS 1170.2:2011 Structural design actions Part 2: Wind actions, AS4100:1998 Steel structures, AS/NZS 1170.0:2002 Structural design actions Part 0: General principles, AS/NZS 1170.1 Structural design actions Part 1: Permanent imposed and other actions, AS/NZS 4600:2005 Cold formed steel structures, AS3600:2009 Concrete structures, AS 3700:2001 Masonry structures, AS/NZ 4505:2012 Garage doors and other

Engineering Drawing Numbers 2288/S01F, 2288/S02F, 2288/S03F, 2288/S04F, 2288/S05F and 2288/S06F by James Ellis &

OPENING WIDTH (L) AND ULTIMATE WIND PRESSURE RATING AS STIPULATED ON ENGINEERING DRAWINGS.

Town / Hundred:

PROPERTY / PROJECT DETAILS

Owner (if known):

Location:

Drawing Nos:

Other:

Lot/Portion Number:

Description of works

DOCUMENTS ATTACHED

Associates Pty Ltd (attached)

DESIGN BASIS (please list relevant Standards used in the design)

large access doors, Ramset - Specifiers Resource Handbook.

Class of Building	g (BCA): All		Type of Construction (BCA volume 1 §C1.1): N/A (eg. Type A fire-resisting construction)						
Building Importa	nce Level (BCA Ta	ble B1.2a): 2			•		nd (BCA Table 1.2b):	1 in	500
Region: C Regional ultimate wind speed V _R (m/s): 69.3			s): 69.3 m /	/s	Terrain Category:	2	Reference height (m): 10 r	m
M _{z,cat} : 1	M _s : 1	M _t : 1	V _{desθ} Design Wind Speed at reference height (m/s): 69.3m/s				n/s		
Internal Pressur	e Coefficients (C _{p,i}):	•			+0.6, -0.3				
External Pressure Coefficients (C _{p,e}) Walls				-0.65, +0.8					
		Roof	N/A						
Net Pressure Co	pefficients: (C _{p,n})	Roof / Walls		N/A					
Imposed Loads,		Floor / Roof		N/A					
	ign Category, EDC ity of Exceedance for the control (BCA): N/A	or Earthquake Action		able 1.2b		Class of S	Sub-Soil (Section 4):	N	/A
Safe Foundation Bearing Capacity, kPa:			N/A	,	-,-		ification (AS2870): N/A		
	_ same oupdoily,			-		3.10 010001		-	
COMMENTS	EXCLUSIONS /	Exclusions to this	s Certifica	ite must l	oe clearly identified	4)			
		•			be deally identified	<i>a)</i> .			
	ms are excluded ar o which the door i				fied independently	as require	ed by a suitably qualif	ied	
drawings. The k wind pressure r along with alter do not exceed to including all loo	ouilding design eng atings given on en rnative site specifi the values given or	lineer is to ensure gineering drawing c local pressure fa n engineering draw (i.e. corners of bu	that the s is. Alternat ictors may vings. Door	ite specif tive desig be adopt rs may be	ic design wind load n parameters to whe ed provided the cal positioned at any l	ings do not at are spe- culated ul- ocation alo	is stipulated on engine t exceed the ultimate cified on engineering timate design wind pr ong the building enve wind pressures do no	desi draw essu lope	ign vings res
		CERTIFICAT	TION BY	CTDU	STUDAL ENGIN	EED.			
		CERTIFICA	IIONBI	SIRUC	TURAL ENGIN	EEK			
Company Name	e : James Ellis & As	ssociates Pty Ltd			Company NT Regis	tration Nu	mber : 189148ES		
							works as described a ritory Building Regulati	ions.	have
Name : James E	Illis	Individual NT Registration N 47429ES	lumber	Signa	ature		Date : 2 nd June 2	0 14	
		1		1			Page 1 of	2	

SCHEDULE OF STRUCTURAL INSPECTIONS REQUIRED

Ins	pect	ion of construction is required at all stages indicated below.
[]	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.
	No	te: [] 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.

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).

[] 11. Final inspection upon completion of all structural work including fixings of external roof and wall claddings,

- 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.