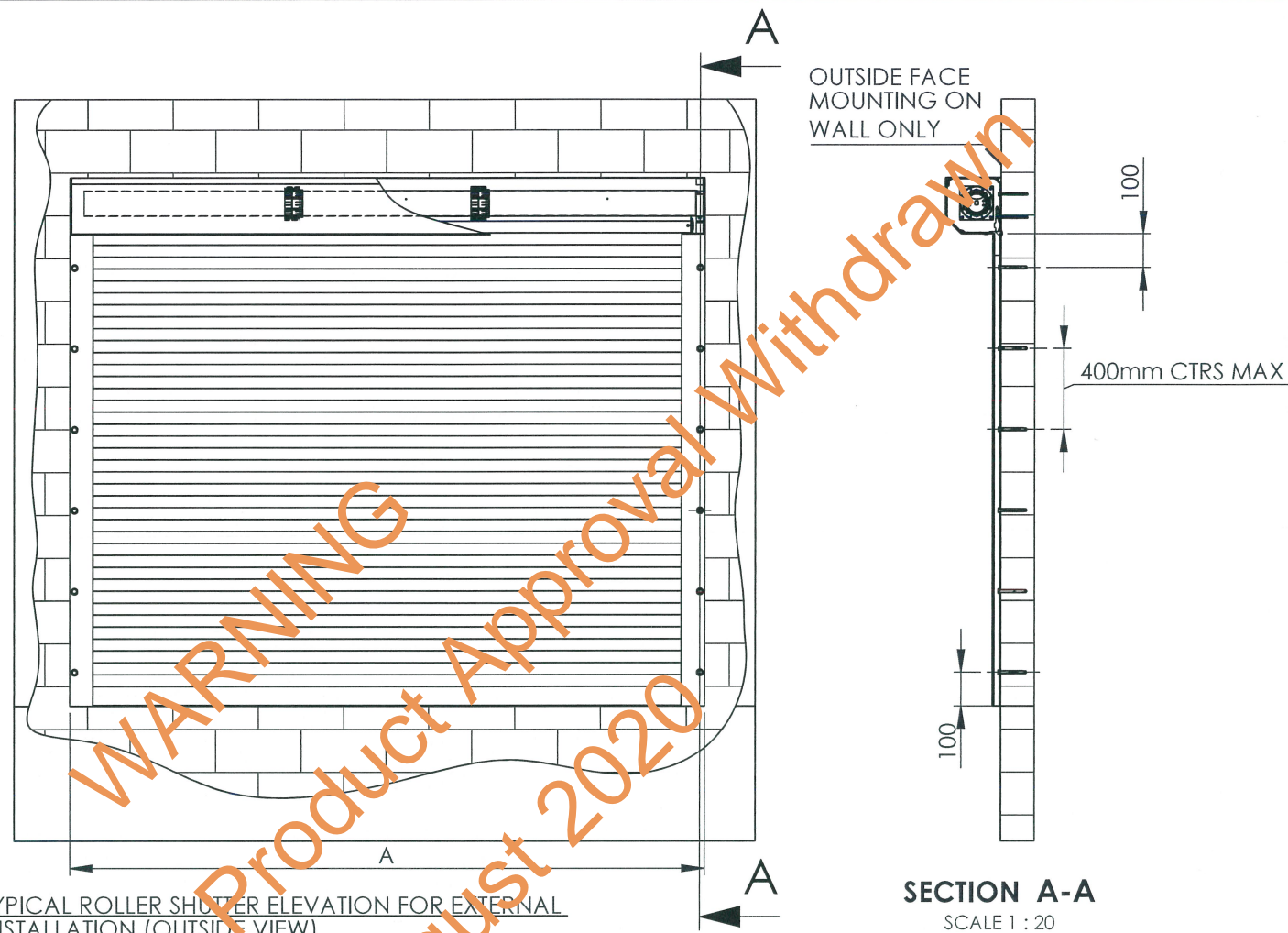


IN ACCORDANCE WITH NCC VOLUME 2 (SECTION P3.10.1). THIS PRODUCT SATISFIES PERFORMANCE REQUIREMENT P2.1.1 FOR CONSTRUCTION IN A HIGH WIND AREA



ROLLER SHUTTER MATERIAL TABLE					
SHUTTER WIDTH A (mm)	AS4055 cat	SITE WIND SPEED v (m/s)	ULTIMATE WIND PRESSURE RATING AS 4055 p (KPa)	JAMB FORCE Fx (KN/m)	JAMB FORCE Fy (KN/m)
1500	MAX C4	83	6.30	10.5	4.7
1500	C3	74	4.96	6.9	3.7
1500	C3	66	3.95	3.9	3.0
1500	C2	61	3.37	2.1	2.5
1500	C2	56	2.84	0.5	2.1
1800	MAX C3	70	4.50	11.2	4.1
1800	C3	66	3.95	9.5	3.6
1800	C2	61	3.37	7.4	3.0
1800	C2	56	2.84	5.4	2.6
2100	MAX C3	63	3.54	12.0	3.7
2100	C2	61	3.37	11.4	3.5
2100	C2	56	2.84	9.1	3.0
2400	MAX C2	58	3.0	12.8	3.6
2400	C2	56	2.84	12.1	3.4

Product Name
CycloneSafe ROLLER SHUTTER

Product Description
EXTERNALLY MOUNTED ROLLER SHUTTER

Manufacturer's Name
CW PRODUCTS PTY LTD
PH: +61 8 8341 0120

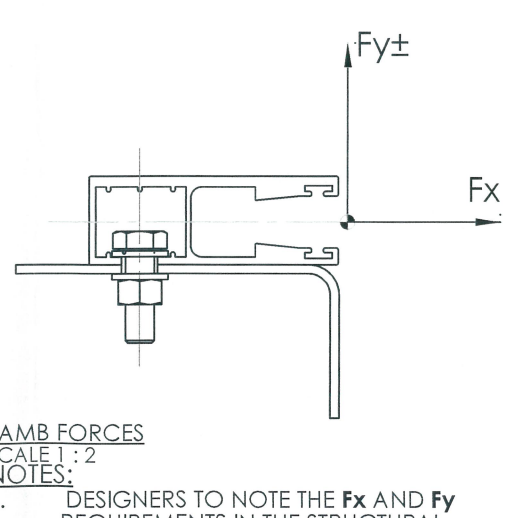
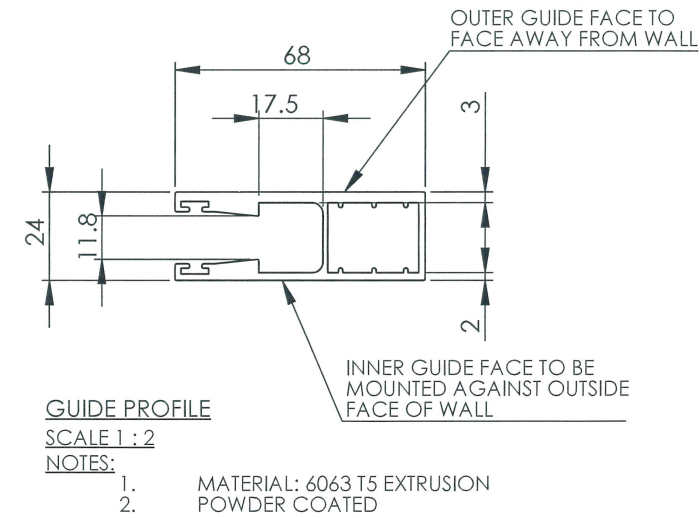
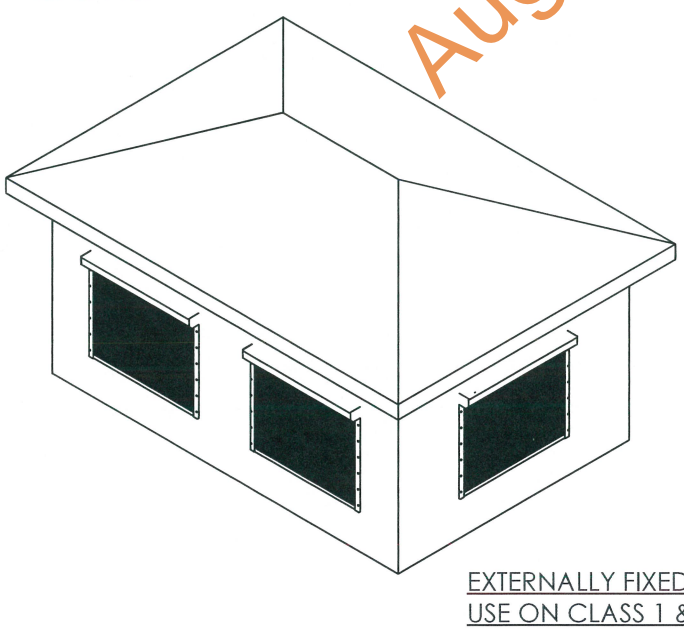
Design Criteria

- Site Wind Speed to be determined in accordance with AS/NZ1170.2:2011, Amdt 3, Part 2:Wind Loads,
- Design wind loads in accordance with AS4505:2012 Garage Doors and Other Large Access Doors
- Cpn = 1.31 (inwards) & 1.51 (outward)
- The supporting jambs of the roller shutter shall be designed for the Fx and Fy loads as indicated in the table.
- Reaction Loads Fx and Fy are conservatively based on rigid supports.
- Linear Interpolation between adjacent tabled shutter widths and wind pressures is permitted.
- No extrapolation of any tabled results is permitted.
- For application on the external face of wall openings.

Limitations

- Impact resistance not assumed in calculations
- Roller shutter guides must be installed with the gap as nominated.
- Proprietary masonry anchors must be installed in accordance with the manufacturers instructions
- Roller Shutter height not greater than 3m
- Roller Shutters limited to fixing on external faces of the walls
- For installation on Class 1 & 10a buildings only

Accepted for inclusion
DTCM ref: M/428/01



Notes covering basis of DTC (relevant test reports etc)

The above specification is based on test reports

- No TS878 by JCU Cyclone Testing Station (14/02/2013)
- No 183 by Blanmore Test Laboratories (08/09/2014)

Checking Engineers Certification

Name: Phil Low
RPEQ No: 6307
Date: 25/08/2015
Signature:

**Certifying Engineers Certification

Name: John L Towler
NT Rego Number: 24642ES
Date: 25/08/2015
Signature:

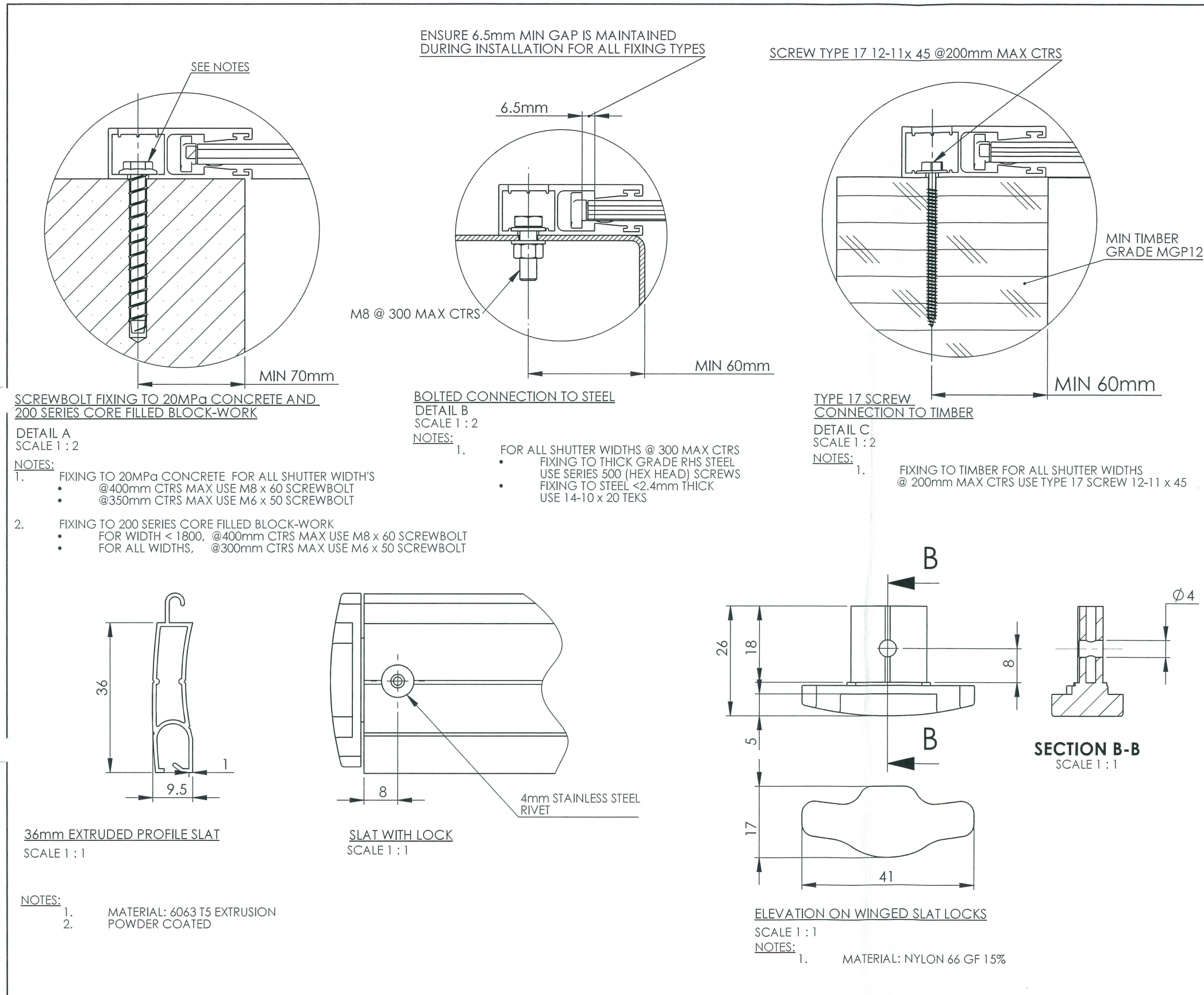
**registered as a structural engineer in Northern Territory

Chairman's Signature: *P. Russell*

Chairman's Name: P. Russell

Date of Approval: 27.8.15 Expiry Date: 27.8.20

IN ACCORDANCE WITH NCC VOLUME 2 (SECTION P3.10.1). THIS PRODUCT SATISFIES PERFORMANCE REQUIREMENT P2.1.1 FOR CONSTRUCTION IN A HIGH WIND AREA



Product Name	CycloneSafe ROLLER SHUTTER
Product Description	EXTERNALLY MOUNTED ROLLER SHUTTER
Manufacturer's Name	CW PRODUCTS PTY LTD PH: +61 8 8341 0120
Design Criteria	<ul style="list-style-type: none"> • Site Wind Speed to be determined in accordance with AS/NZ1170.2-2011, Amdt 3, Part 2:Wind Loads, • Design wind loads in accordance with AS4505:2012 Garage Doors and Other Large Access Doors • Cpn = 1.31 (inwards) & 1.51 (outward) • The supporting jambs of the roller shutter shall be designed for the Fx and Fy loads as indicated in the table. • Reaction Loads Fx and Fy are conservatively based on rigid supports. • Linear Interpolation between adjacent tabled shutter widths and wind pressures is permitted. • No extrapolation of any tabled results is permitted. • For application on the external face of wall openings.
Limitations	<ul style="list-style-type: none"> • Impact resistance not assumed in calculations • Roller shutter guides must be installed with the gap as nominated. • Proprietary masonry anchors must be installed in accordance with the manufacturers instructions • Roller Shutter height not greater than 3m • Roller Shutters limited to fixing on external faces of the walls • For installation on Class 1 & 10a buildings only
Accepted for Inclusion	
DTCM ref:	M/428/02

Notes covering basis of DTC (relevant test reports etc)	Checking Engineers Certification	**Certifying Engineers Certification
	Name: Phil Low	Name: John L Towler
The above specification is based on test reports	RPEQ No: 6307	NT Rego Number: 24642ES
	Date: 25/08/2015	Date: 25/08/2015
<ul style="list-style-type: none"> • No TS878 by JCU Cyclone Testing Station (14/02/2013) • No 183 by Blanmore Test Laboratories (08/09/2014) 	Signature:	Signature:
		**registered as a structural engineer in Northern Territory

Chairman's Signature:	<i>P. Russell</i>
Chairman's Name:	P. Russell
Date of Approval:	27.8.15
Expiry Date:	27.08.20