

Mechanical Testing

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IN CONFIDENCE TO THE CLIENT

REPORT NO. MT-19/1064-3000

TESTING OF JAYBRO 3000 SERIES TEMPORARY FENCING PANELS

CLIENT: JAYBRO – MELBOURNE
BUILDING A, 1-7 CYANAMID STREET
LAVERTON NORTH VIC 3026
ATT: CHRIS BROOKER, BRENDAN COOTE

DATE OF TESTING: DECEMBER 2ND – 6TH 2019

DATE OF REPORT: DECEMBER 19TH 2019

TEST SYNOPSIS:

JAYBRO 3000 SERIES temporary fence panels along with upright posts, braces, block footings and clamping fixtures were delivered to the MTS laboratory for testing (see Fig.1).

At the request of the client, tests were to be conducted to determine the performance attributes of individual and assembled fences in accordance with AS 4687 – 2007 TEMPORARY FENCING AND HOARDINGS. The following tests were conducted in accordance with SECTION 4:

CLAUSE 4.2: *Simulated Climbing Test*

CLAUSE 4.3: *Impact Test*

CLAUSE 4.4.2: *Infill Aperture Width Test*

CLAUSE 4.4.3: *Infill Downward Test*

CLAUSE 4.5: *Wind Force Overturning Test*

Upon arrival at the laboratory, the test items were inspected and the nominal fence dimensions were recorded as follows:

Fence Panels: 2.4 m wide × 2.1 m high

Panel Frame: 40 mm OD Steel Circular Hollow Section (CHS), 0.8 mm Wall Thickness

Back Brace A: “F-Frame Brace” 48.3 & 40.3 mm OD Steel CHS (see Fig. C1)

Footplate 400 × 100 × 6 mm Steel Flat Bar

Two (2) Connection Points to Fence Panel

Back Brace B: “Heavy Duty Brace” 41 mm OD CHS (see Fig. C2)

Footplate 300 × 50 × 5 mm Steel Flat Bar

One (1) Connection Point to Fence Panel

Wire Infill: Rectangular Pattern – 155 × 63 × 2.5 mm diameter Steel Wire

Footing Blocks: 15.5 kg – 800 × 290 × 130 mm Polymer Material



FIG. 1
TEMPORARY FENCE PANEL

TEST PREPARATION:

Temporary fence panels were prepared for testing in both single and continuous panel configurations. The temporary fencing was assembled in accordance with the manufacturer's assembly guidelines using the supplied clamping fixtures.

Simulated Climbing Test:

Simulated climbing tests were conducted in accordance with AS 4687 CLAUSE 4.2 on a three (3) panel assembly with the panels inserted into the centre foot block holes, by pulling the top rail of the fence panel vertically downward. A 400mm lever-arm attached to the centre of the fence panel was used to apply the load (see Fig. 2). The downward force was continuously applied until a load of 65kg had been achieved. This test load was maintained for a period of three (3) minutes.

This test was repeated for a second three (3) panel assembly, with the panels positioned at the edge holes of the foot blocks, with one (1) back brace fitted with two (2) foot blocks.

Impact Test:

Impact testing was conducted in accordance with AS 4687 CLAUSE 4.3 by swinging a pendulum mass into the mesh infill of unbraced and braced single fence panels (see Fig. 3). Four (4) test locations, as described in FIGURE 4.3 of AS 4687, were selected and tests were conducted at an impact energy level of 150 joules. A visual inspection for damage to the fence panels, mesh infill, and infill/post connection points was conducted after each impact.

Foothold Tests:

Infill Aperture Width Test:

Aperture width testing was conducted in accordance with AS 4687 CLAUSE 4.4.2 by attempting to pass a 76 × 76 mm test block through the mesh aperture. Measurement of a single mesh aperture was also conducted to determine that the opening was less than the specified dimensional limit of 75 mm.

Infill Downward Load Test:

To test that the infill mesh had sufficient stiffness to resist an attempt to climb the fence, a downward load of 1.0 kN was applied at one of the rectangular shaped openings, as required by AS 4687 CLAUSE 4.4.3 (see Fig. 4). This load was maintained for 60 seconds, at which point the downward deflection of the infill material was recorded.

Simulated Wind Load Test:

Wind load testing was conducted in accordance with AS 4687 CLAUSE 4.5 by applying a lateral overturning load horizontally to the middle of a single fence panel with different bracing and foot block combinations (see Fig. 5). The test load was steadily increased until the foot blocks lifted from the floor and the fence underwent significant angular rotation of the upright posts, rendering the fence unstable. At this point, the applied test load was maintained and the peak test load recorded. Wind load testing was conducted with braced and unbraced panels and varying numbers of footing blocks.

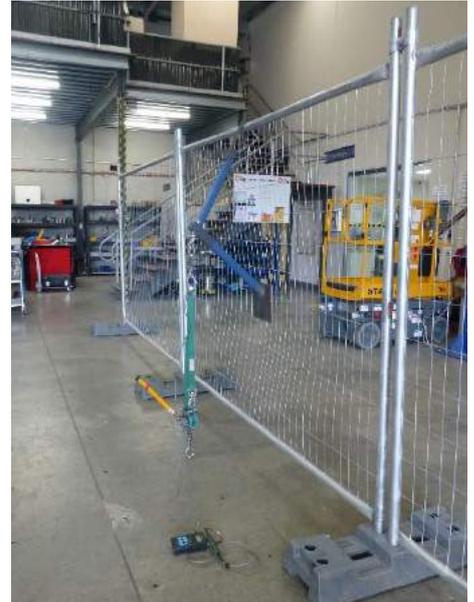


FIG. 2
SIMULATED CLIMBING TEST



FIG. 3
IMPACT TEST

TEST OBSERVATIONS:

Simulated Climbing:

Each temporary fence panel was visually inspected for signs of deformation and failure upon completion of the tests. No visible signs of permanent deformation or structural failure were observed in the panels or mesh upon completion of testing. Each temporary fence panel test assembly successfully supported a 65 kg test load without overturning, as required by CLAUSE 4.2.

Impact Testing:

The Impact Test was conducted under MTS Test Report number MT-17/1016-3000, dated December 13th 2017. A single fence panel assembled without back braces, with the panel positioned in the centre holes of the foot blocks was observed to overturn upon impact collision of 150 joules at the centre of the mesh.

A single fence panel assembled as above with the addition of a single, interlocking back brace and two (2) footing blocks did not overturn after impact. Post-test visual inspection revealed no signs of penetration of the infill, failure between connecting materials and the support frame or cracking or fractures on the panel framework. A maximum dynamic deflection of 210 mm was recorded during testing at the upper middle of the mesh. The fence panel with bracing has therefore met the requirements of CLAUSE 4.3.

Foothold Aperture Tests:

Aperture Width:

The steel wire mesh infill aperture horizontal width was measured to be **63 mm**, which is less than the specified maximum of 75 mm. The test block could not be passed through the rectangular shaped mesh infill, as required by CLAUSE 4.4.2 (see Fig. 5).

Infill Downward Load Test:

The infill downward load test resulted in a deflection of **23 mm**, which is less than the permissible maximum of 35 mm specified by CLAUSE 4.4.3. Upon removal of the test load, the infill showed a residual deformation of 8 mm.

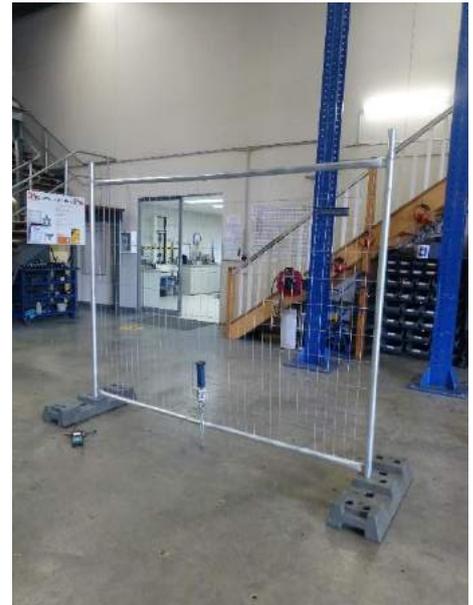


FIG. 4
INFILL DOWNWARD TEST

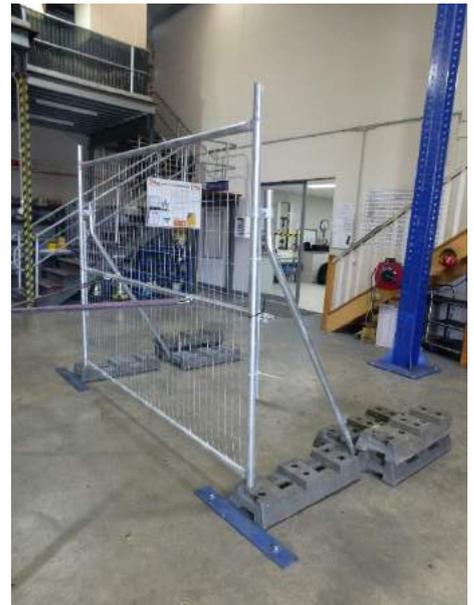


FIG. 5
FOOTHOLD APERTURE
WIDTH TEST

Simulated Wind Load Testing:

Simulated wind load testing was conducted on the following temporary fence panel assembly scenarios:

1. Panels braced with perpendicular “F-Frame” back brace, positioned at the centre holes of the foot blocks (see Tables A1 - A3 and Fig. C3).
2. Panels braced with perpendicular “F-Frame” back brace, positioned at the edge holes of the foot blocks (see Tables A4 – A6 and Fig. C4).
3. Panels braced with perpendicular “Heavy Duty” back brace, positioned at the centre holes of the foot blocks (see Tables A7 – A9 and Fig. C5).
4. Panels braced with perpendicular “Heavy Duty” back brace, positioned at the edge holes of the foot blocks (see Tables A10 - A12 and Fig. C6).
5. Panel braced with angled (65°) “F-Frame” back brace, positioned at the centre holes of the foot blocks (see Table B1 and Fig. C7, C11).
6. Panel braced with angled (65°) “F-Frame” back brace, positioned at the edge holes of the foot blocks (see Table B2 and Fig. C8).
7. Panel braced with angled (45°) “Heavy Duty” back brace, positioned at the centre holes of the foot blocks (see Table B3 and Fig. C9, C12).
8. Panel braced with angled (45°) “Heavy Duty” back brace, positioned at the edge holes of the foot blocks (see Table B4 and Fig. C10).



**FIG. 5
SIMULATED WIND LOAD
TEST SET UP
‘PERPENDICULAR’ BRACING**

The simulated wind overturning test results found that the ‘F-Frame’ back brace provided superior wind overturning resistance to that found for the ‘Heavy Duty’ back brace.

The tested panels resisted the simulated wind loads without failure of the fence’s structural frame work or infill material. Upon release of the test load, the fence panel, bracing members, clamps and footings were observed to be intact and free from severe deleterious damage.

The peak force was recorded for each test and is presented along with the calculated equivalent wind speed for each scenario in Appendix A and Appendix B.

SUMMARY:

Unbraced Panels:

The test results confirm that an unbraced, JAYBRO 3000 SERIES temporary fence panel, as described and reported herein, meets the minimum requirements as specified in SECTION 4 of AS 4687 – 2007 TEMPORARY FENCING AND HOARDINGS for:

CLAUSE 4.2: Simulated Climbing Test

CLAUSE 4.4.2: Infill Aperture Width Test

CLAUSE 4.4.3: Infill Downward Test

A single, unbraced panel with plastic foot blocks overturned upon an impact collision of 150 joules.

Back Braced Panels:

The impact test results confirm that a JAYBRO 3000 SERIES temporary fence panel with recycled plastic footings, one (1) interlocking back brace with one (1) footing meets the impact test requirements as specified in SECTION 4 of AS 4687 – 2007 TEMPORARY FENCING AND HOARDINGS.

As defined by the configuration parameters detailed in Appendix A and B, the simulated wind overturning test results confirm that the JAYBRO 3000 SERIES temporary fence panel with foot blocks meets the minimum wind speed requirement for Regions A - D, for particular assembly scenarios, as specified in SECTION 4 of AS 4687 – 2007 TEMPORARY FENCING AND HOARDINGS.

Notes:

- 1) Melbourne Testing Services Pty Ltd shall not be liable for loss, cost, damages or expenses incurred by the client or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Melbourne Testing Services Pty Ltd be liable for consequential damages including, but not limited to, lost profit, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested.
- 2) This report is specific to the temporary fence panels described herein, in their state at the time of testing at the MTS testing laboratory. It should not be taken as a statement that all similar temporary fence panel assemblies or components of temporary fence panel assemblies in all states of repair, would also perform in a similar manner to items described herein.
- 3) MTS shall take no responsibility for the procurement and authenticity of the temporary fencing as described herein.
- 4) MTS shall take no responsibility for the onsite installation procedures used for the temporary fencing described herein.
- 5) It remains the responsibility of the client to ensure that the temporary fence panels and assembly configuration tested are representative of the entire product batch.
- 6) The test results as reported herein are for a temporary fencing system assembly on a flat, level and hard concrete surface, this report shall not be taken as a statement of compliance for the temporary fencing system in all conditions and footing substrates.
- 7) The test results reported herein are specific to the fence systems performance where the system uses interlocking back braces with three clamps per brace (two at the top of the back brace, one at the bottom of the back brace) which provide a positive connection to the foot blocks and adjoining temporary fence panels. MTS shall take no responsibility for the onsite installation and performance of the temporary fencing system is erected other than as specifically described herein.
- 8) Wind speed calculations based on AS/NZS 1170.2-2002 with an importance level of 1, terrain category of 4 and topographic multiplier of 1. Wind speeds as reported herein for braced fences are specific to wind pressure is acting normal to the panel from the braced side of the fence.



CAREY ARTHURSON
Authorised Signatory

APPENDIX A

Infill Type	Number of Panels	Number of Braces Per Panel	Number of Blocks (Per Brace)	Outward Test Load (kN)	Calculated Wind Speed Capacity (m/s)	Australian Wind Region
Welded Wire Mesh 63 x 155mm No Shadecloth or Coverings	1	None	None	0.076	10.2	-
		1	1	0.350	21.8	A, B, C
			2	0.516	26.5	A, B, C, D
			3	0.684	30.5	A, B, C, D
			4	0.882	34.6	A, B, C, D

Infill Type	Number of Panels	Number of Braces Per Panel	Number of Blocks (Per Brace)	Outward Test Load (kN)	Calculated Wind Speed Capacity (m/s)	Australian Wind Region
Welded Wire Mesh 63 x 155 mm 50% Block Shadecloth Cover	1	None	None	0.076	5.6	-
		1	1	0.350	12.1	-
			2	0.516	14.7	-
			3	0.684	16.9	A
			4	0.882	19.2	A, B

Infill Type	Number of Panels	Number of Braces Per Panel	Number of Blocks (Per Brace)	Outward Test Load (kN)	Calculated Wind Speed Capacity (m/s)	Australian Wind Region
Welded Wire Mesh 63 x 155 mm 70% Block Shadecloth Cover	1	None	None	0.076	5.1	-
		1	1	0.350	11.0	-
			2	0.516	13.4	-
			3	0.684	15.4	A
			4	0.882	17.5	A

Infill Type	Number of Panels	Number of Braces Per Panel	Number of Blocks (Per Brace)	Outward Test Load (kN)	Calculated Wind Speed Capacity (m/s)	Australian Wind Region
Welded Wire Mesh 63 x 155 mm 90% Block Shadecloth Cover	1	None	None	0.076	4.9	-
		1	1	0.350	10.5	-
			2	0.516	12.7	-
			3	0.684	14.7	-
			4	0.882	16.7	A

**TABLE A1
WIND LOAD TEST DATA SINGLE PANEL ASSEMBLIES
WITH PERPENDICULAR F-FRAME BACK BRACE
AND FENCE PANEL LOCATED AT THE CENTRE FOOT BLOCK HOLES**

APPENDIX A

Infill Type	Number of Panels	Number of Braces For Every 2 Panels	Number of Blocks (Per Brace)	Outward Test Load (kN)	Calculated Wind Speed Capacity (m/s)	Australian Wind Region
Welded Wire Mesh 63 x 155 mm No Shadecloth or Coverings	2	None	None	0.076	7.2	-
		1	1	0.426	17.1	A
			2	0.592	20.1	A, B
			3	0.760	22.8	A, B, C
			4	0.958	25.6	A, B, C, D

Infill Type	Number of Panels	Number of Braces For Every 2 Panels	Number of Blocks (Per Brace)	Outward Test Load (kN)	Calculated Wind Speed Capacity (m/s)	Australian Wind Region
Welded Wire Mesh 63 x 155 mm 50% Block Shadecloth Cover	2	None	None	0.076	4.0	-
		1	1	0.426	9.5	-
			2	0.592	11.2	-
			3	0.760	12.7	-
			4	0.958	14.2	-

Infill Type	Number of Panels	Number of Braces For Every 2 Panels	Number of Blocks (Per Brace)	Outward Test Load (kN)	Calculated Wind Speed Capacity (m/s)	Australian Wind Region
Welded Wire Mesh 63 x 155 mm 70% Block Shadecloth Cover	2	None	None	0.076	3.7	-
		1	1	0.426	8.6	-
			2	0.592	10.2	-
			3	0.760	11.5	-
			4	0.958	13.0	-

Infill Type	Number of Panels	Number of Braces For Every 2 Panels	Number of Blocks (Per Brace)	Outward Test Load (kN)	Calculated Wind Speed Capacity (m/s)	Australian Wind Region
Welded Wire Mesh 63 x 155 mm 90% Block Shadecloth Cover	2	None	None	0.076	3.5	-
		1	1	0.426	8.2	-
			2	0.592	9.7	-
			3	0.760	11.0	-
			4	0.958	12.3	-

**TABLE A2
WIND LOAD TEST DATA DOUBLE PANEL ASSEMBLIES
WITH PERPENDICULAR F-FRAME BACK BRACE
AND FENCE PANEL LOCATED AT THE CENTRE FOOT BLOCK HOLES**

APPENDIX A

Infill Type	Number of Panels	Number of Braces For Every 3 Panels	Number of Blocks (Per Brace)	Outward Test Load (kN)	Calculated Wind Speed Capacity (m/s)	Australian Wind Region
Welded Wire Mesh 63 x 155 mm No Shadecloth or Coverings	3	None	None	0.076	5.9	-
		1	1	0.502	15.2	A
			2	0.668	17.5	A
			3	0.836	19.6	A, B
			4	1.034	21.8	A, B, C
		2	1	0.782	18.9	A, B
			2	1.160	23.0	A, B, C
			3	1.516	26.4	A, B, C, D
			4	1.878	29.3	A, B, C, D

Infill Type	Number of Panels	Number of Braces For Every 3 Panels	Number of Blocks (Per Brace)	Outward Test Load (kN)	Calculated Wind Speed Capacity (m/s)	Australian Wind Region
Welded Wire Mesh 63 x 155 mm 50% Block Shadecloth Cover	3	None	None	0.076	3.3	-
		1	1	0.502	8.4	-
			2	0.668	9.7	-
			3	0.836	10.9	-
			4	1.034	12.1	-
		2	1	0.782	10.5	-
			2	1.160	12.8	-
			3	1.516	14.6	-
			4	1.878	16.3	A

Infill Type	Number of Panels	Number of Braces For Every 3 Panels	Number of Blocks (Per Brace)	Outward Test Load (kN)	Calculated Wind Speed Capacity (m/s)	Australian Wind Region
Welded Wire Mesh 63 x 155 mm 70% Block Shadecloth Cover	3	None	None	0.076	3.0	-
		1	1	0.502	7.7	-
			2	0.668	8.9	-
			3	0.836	9.9	-
			4	1.034	11.0	-
		2	1	0.782	9.6	-
			2	1.160	11.7	-
			3	1.516	13.3	-
			4	1.878	14.9	-

Infill Type	Number of Panels	Number of Braces For Every 3 Panels	Number of Blocks (Per Brace)	Outward Test Load (kN)	Calculated Wind Speed Capacity (m/s)	Australian Wind Region
Welded Wire Mesh 63 x 155 mm 90% Block Shadecloth Cover	3	None	None	0.076	2.8	-
		1	1	0.502	7.3	-
			2	0.668	8.4	-
			3	0.836	9.4	-
			4	1.034	10.5	-
		2	1	0.782	9.1	-
			2	1.16	11.1	-
			3	1.516	12.7	-
			4	1.878	14.1	-

TABLE A3
WIND LOAD TEST DATA TRIPLE PANEL ASSEMBLIES
WITH PERPENDICULAR F-FRAME BACK BRACE
AND FENCE PANEL LOCATED AT THE CENTRE FOOT BLOCK HOLES

APPENDIX A

Infill Type	Number of Panels	Number of Braces Per Panel	Number of Blocks (Per Brace)	Outward Test Load (kN)	Calculated Wind Speed Capacity (m/s)	Australian Wind Region
Welded Wire Mesh 63 x 155mm No Shadecloth or Coverings	1	None	None	0.059	9.0	-
		1	1	0.303	20.3	A, B
			2	0.493	25.9	A, B, C, D
			3	0.683	30.5	A, B, C, D
			4	0.873	34.5	A, B, C, D

Infill Type	Number of Panels	Number of Braces Per Panel	Number of Blocks (Per Brace)	Outward Test Load (kN)	Calculated Wind Speed Capacity (m/s)	Australian Wind Region
Welded Wire Mesh 63 x 155 mm 50% Block Shadecloth Cover	1	None	None	0.059	5.0	-
		1	1	0.303	11.3	-
			2	0.493	14.4	-
			3	0.683	16.9	A
			4	0.873	19.1	A, B

Infill Type	Number of Panels	Number of Braces Per Panel	Number of Blocks (Per Brace)	Outward Test Load (kN)	Calculated Wind Speed Capacity (m/s)	Australian Wind Region
Welded Wire Mesh 63 x 155 mm 70% Block Shadecloth Cover	1	None	None	0.059	4.5	-
		1	1	0.303	10.3	-
			2	0.493	13.1	-
			3	0.683	15.4	A
			4	0.873	17.4	A

Infill Type	Number of Panels	Number of Braces Per Panel	Number of Blocks (Per Brace)	Outward Test Load (kN)	Calculated Wind Speed Capacity (m/s)	Australian Wind Region
Welded Wire Mesh 63 x 155 mm 90% Block Shadecloth Cover	1	None	None	0.059	4.3	-
		1	1	0.303	9.8	-
			2	0.493	12.4	-
			3	0.683	14.7	-
			4	0.873	16.6	A

TABLE A4
WIND LOAD TEST DATA SINGLE PANEL ASSEMBLIES
WITH PERPENDICULAR F-FRAME BACK BRACE
AND FENCE PANEL LOCATED AT THE 'EDGE' FOOT BLOCK HOLES

APPENDIX A:

Infill Type	Number of Panels	Number of Braces For Every 2 Panels	Number of Blocks (Per Brace)	Outward Test Load (kN)	Calculated Wind Speed Capacity (m/s)	Australian Wind Region
Welded Wire Mesh 63 x 155 mm No Shadecloth or Coverings	2	None	None	0.059	6.4	-
		1	1	0.360	15.7	A
			2	0.548	19.4	A, B
			3	0.733	22.4	A, B, C
			4	0.910	25.0	A, B, C, D

Infill Type	Number of Panels	Number of Braces For Every 2 Panels	Number of Blocks (Per Brace)	Outward Test Load (kN)	Calculated Wind Speed Capacity (m/s)	Australian Wind Region
Welded Wire Mesh 63 x 155 mm 50% Block Shadecloth Cover	2	None	None	0.059	3.5	-
		1	1	0.360	8.7	-
			2	0.548	10.7	-
			3	0.733	12.4	-
			4	0.910	13.8	-

Infill Type	Number of Panels	Number of Braces For Every 2 Panels	Number of Blocks (Per Brace)	Outward Test Load (kN)	Calculated Wind Speed Capacity (m/s)	Australian Wind Region
Welded Wire Mesh 63 x 155 mm 70% Block Shadecloth Cover	2	None	None	0.059	3.2	-
		1	1	0.360	7.9	-
			2	0.548	9.8	-
			3	0.733	11.3	-
			4	0.910	12.6	-

Infill Type	Number of Panels	Number of Braces For Every 2 Panels	Number of Blocks (Per Brace)	Outward Test Load (kN)	Calculated Wind Speed Capacity (m/s)	Australian Wind Region
Welded Wire Mesh 63 x 155 mm 90% Block Shadecloth Cover	2	None	None	0.059	3.1	-
		1	1	0.360	7.5	-
			2	0.548	9.3	-
			3	0.733	10.8	-
			4	0.910	12.0	-

**TABLE A5
WIND LOAD TEST DATA DOUBLE PANEL ASSEMBLIES
WITH PERPENDICULAR F-FRAME BACK BRACE
AND FENCE PANEL LOCATED AT THE 'EDGE' FOOT BLOCK HOLES**

APPENDIX A:

Infill Type	Number of Panels	Number of Braces For Every 3 Panels	Number of Blocks (Per Brace)	Outward Test Load (kN)	Calculated Wind Speed Capacity (m/s)	Australian Wind Region
Welded Wire Mesh 63 x 155mm No Shadecloth or Coverings	3	None	None	0.059	5.2	-
		1	1	0.421	13.9	-
			2	0.607	16.7	A
			3	0.792	19.0	A, B
			4	0.969	21.1	A, B, C
		2	1	0.661	17.4	A
			2	1.037	21.8	A, B, C
			3	1.407	25.4	A, B, C, D
			4	1.761	28.4	A, B, C, D

Infill Type	Number of Panels	Number of Braces For Every 3 Panels	Number of Blocks (Per Brace)	Outward Test Load (kN)	Calculated Wind Speed Capacity (m/s)	Australian Wind Region
Welded Wire Mesh 63 x 155 mm 50% Block Shadecloth Cover	3	None	None	0.059	2.9	-
		1	1	0.421	7.7	-
			2	0.607	9.3	-
			3	0.792	10.6	-
			4	0.969	11.7	-
		2	1	0.661	9.7	-
			2	1.037	12.1	-
			3	1.407	14.1	-
			4	1.761	15.8	A

Infill Type	Number of Panels	Number of Braces For Every 3 Panels	Number of Blocks (Per Brace)	Outward Test Load (kN)	Calculated Wind Speed Capacity (m/s)	Australian Wind Region
Welded Wire Mesh 63 x 155 mm 70% Block Shadecloth Cover	3	None	None	0.059	2.6	-
		1	1	0.421	7.0	-
			2	0.607	8.4	-
			3	0.792	9.6	-
			4	0.969	10.7	-
		2	1	0.661	8.8	-
			2	1.037	11.0	-
			3	1.407	12.9	-
			4	1.761	14.4	-

Infill Type	Number of Panels	Number of Braces For Every 3 Panels	Number of Blocks (Per Brace)	Outward Test Load (kN)	Calculated Wind Speed Capacity (m/s)	Australian Wind Region
Welded Wire Mesh 62.5 x 155 mm 90% Block Shadecloth Cover	3	None	None	0.059	2.5	-
		1	1	0.421	6.7	-
			2	0.607	8.0	-
			3	0.792	9.2	-
			4	0.969	10.1	-
		2	1	0.661	8.4	-
			2	1.037	10.5	-
			3	1.407	12.2	-
			4	1.761	13.7	-

**TABLE A6
WIND LOAD TEST DATA TRIPLE PANEL ASSEMBLIES
WITH PERPENDICULAR F-FRAME BACK BRACE
AND FENCE PANEL LOCATED AT THE 'EDGE' FOOT BLOCK HOLES**



APPENDIX A:

Infill Type	Number of Panels	Number of Braces Per Panel	Number of Blocks (Per Brace)	Outward Test Load (kN)	Calculated Wind Speed Capacity (m/s)	Australian Wind Region
Welded Wire Mesh 63 x 155mm No Shadecloth or Coverings	1	None	None	0.076	10.2	-
		1	1	0.264	18.9	A, B
			2	0.422	24.0	A, B, C
			3	0.574	27.9	A, B, C, D
			4	0.770	32.4	A, B, C, D

Infill Type	Number of Panels	Number of Braces Per Panel	Number of Blocks (Per Brace)	Outward Test Load (kN)	Calculated Wind Speed Capacity (m/s)	Australian Wind Region
Welded Wire Mesh 63 x 155 mm 50% Block Shadecloth Cover	1	None	None	0.076	5.6	-
		1	1	0.264	10.5	-
			2	0.422	13.3	-
			3	0.574	15.5	A
			4	0.770	18.0	A

Infill Type	Number of Panels	Number of Braces Per Panel	Number of Blocks (Per Brace)	Outward Test Load (kN)	Calculated Wind Speed Capacity (m/s)	Australian Wind Region
Welded Wire Mesh 63 x 155 mm 70% Block Shadecloth Cover	1	None	None	0.076	5.1	-
		1	1	0.264	9.6	-
			2	0.422	12.1	-
			3	0.574	14.1	-
			4	0.770	16.4	A

Infill Type	Number of Panels	Number of Braces Per Panel	Number of Blocks (Per Brace)	Outward Test Load (kN)	Calculated Wind Speed Capacity (m/s)	Australian Wind Region
Welded Wire Mesh 63 x 155 mm 90% Block Shadecloth Cover	1	None	None	0.076	4.9	-
		1	1	0.264	9.1	-
			2	0.422	11.5	-
			3	0.574	13.4	-
			4	0.770	15.6	A

**TABLE A7
WIND LOAD TEST DATA SINGLE PANEL ASSEMBLIES
WITH PERPENDICULAR ‘HEAVY DUTY’ BACK BRACE
AND FENCE PANEL LOCATED AT THE CENTRE FOOT BLOCK HOLES**

APPENDIX A:

Infill Type	Number of Panels	Number of Braces For Every 2 Panels	Number of Blocks (Per Brace)	Outward Test Load (kN)	Calculated Wind Speed Capacity (m/s)	Australian Wind Region
Welded Wire Mesh 63 x 155 mm No Shadecloth or Coverings	2	None	None	0.076	7.2	-
		1	1	0.340	15.3	A
			2	0.498	18.5	A, B
			3	0.650	21.1	A, B, C
			4	0.846	24.1	A, B, C, D

Infill Type	Number of Panels	Number of Braces For Every 2 Panels	Number of Blocks (Per Brace)	Outward Test Load (kN)	Calculated Wind Speed Capacity (m/s)	Australian Wind Region
Welded Wire Mesh 63 x 155 mm 50% Block Shadecloth Cover	2	None	None	0.076	4.0	-
		1	1	0.340	8.5	-
			2	0.498	10.2	-
			3	0.650	11.7	-
			4	0.846	13.4	-

Infill Type	Number of Panels	Number of Braces For Every 2 Panels	Number of Blocks (Per Brace)	Outward Test Load (kN)	Calculated Wind Speed Capacity (m/s)	Australian Wind Region
Welded Wire Mesh 63 x 155 mm 70% Block Shadecloth Cover	2	None	None	0.076	3.7	-
		1	1	0.340	7.7	-
			2	0.498	9.3	-
			3	0.650	10.7	-
			4	0.846	12.2	-

Infill Type	Number of Panels	Number of Braces For Every 2 Panels	Number of Blocks (Per Brace)	Outward Test Load (kN)	Calculated Wind Speed Capacity (m/s)	Australian Wind Region
Welded Wire Mesh 63 x 155 mm 90% Block Shadecloth Cover	2	None	None	0.076	3.5	-
		1	1	0.340	7.3	-
			2	0.498	8.9	-
			3	0.650	10.1	-
			4	0.846	11.6	-

**TABLE A8
WIND LOAD TEST DATA DOUBLE PANEL ASSEMBLIES
WITH PERPENDICULAR 'HEAVY DUTY' BACK BRACE
AND FENCE PANEL LOCATED AT THE CENTRE FOOT BLOCK HOLES**

APPENDIX A:

Infill Type	Number of Panels	Number of Braces For Every 3 Panels	Number of Blocks (Per Brace)	Outward Test Load (kN)	Calculated Wind Speed Capacity (m/s)	Australian Wind Region
Welded Wire Mesh 63 x 155 mm No Shadecloth or Coverings	3	None	None	0.076	5.9	-
		1	1	0.416	13.8	-
			2	0.574	16.2	A
			3	0.726	18.2	A, B
			4	0.922	20.5	A, B
		2	1	0.624	16.9	A
			2	0.962	21.0	A, B, C
			3	1.262	24.0	A, B, C, D
			4	1.656	27.5	A, B, C, D

Infill Type	Number of Panels	Number of Braces For Every 3 Panels	Number of Blocks (Per Brace)	Outward Test Load (kN)	Calculated Wind Speed Capacity (m/s)	Australian Wind Region
Welded Wire Mesh 63 x 155 mm 50% Block Shadecloth Cover	3	None	None	0.076	3.3	-
		1	1	0.416	7.7	-
			2	0.574	9.0	-
			3	0.726	10.1	-
			4	0.922	11.4	-
		2	1	0.624	9.4	-
			2	0.962	11.6	-
			3	1.262	13.3	-
			4	1.656	15.3	A

Infill Type	Number of Panels	Number of Braces For Every 3 Panels	Number of Blocks (Per Brace)	Outward Test Load (kN)	Calculated Wind Speed Capacity (m/s)	Australian Wind Region
Welded Wire Mesh 63 x 155 mm 70% Block Shadecloth Cover	3	None	None	0.076	3.0	-
		1	1	0.416	7.0	-
			2	0.574	8.2	-
			3	0.726	9.2	-
			4	0.922	10.4	-
		2	1	0.624	8.6	-
			2	0.962	10.6	-
			3	1.262	12.2	-
			4	1.656	13.9	-

Infill Type	Number of Panels	Number of Braces For Every 3 Panels	Number of Blocks (Per Brace)	Outward Test Load (kN)	Calculated Wind Speed Capacity (m/s)	Australian Wind Region
Welded Wire Mesh 63 x 155 mm 90% Block Shadecloth Cover	3	None	None	0.076	2.8	-
		1	1	0.416	6.6	-
			2	0.574	7.8	-
			3	0.726	8.8	-
			4	0.922	9.9	-
		2	1	0.624	8.1	-
			2	0.962	10.1	-
			3	1.262	11.6	-
			4	1.656	13.2	-

**TABLE A9
WIND LOAD TEST DATA TRIPLE PANEL ASSEMBLIES
WITH PERPENDICULAR 'HEAVY DUTY' BACK BRACE
AND FENCE PANEL LOCATED AT THE CENTRE FOOT BLOCK HOLES**



APPENDIX A:

Infill Type	Number of Panels	Number of Braces Per Panel	Number of Blocks (Per Brace)	Outward Test Load (kN)	Calculated Wind Speed Capacity (m/s)	Australian Wind Region
Welded Wire Mesh 63 x 155mm No Shadecloth or Coverings	1	None	None	0.059	9.0	-
		1	1	0.231	17.7	A
			2	0.407	23.5	A, B, C
			3	0.518	26.5	A, B, C, D
			4	0.721	31.3	A, B, C, D

Infill Type	Number of Panels	Number of Braces Per Panel	Number of Blocks (Per Brace)	Outward Test Load (kN)	Calculated Wind Speed Capacity (m/s)	Australian Wind Region
Welded Wire Mesh 63 x 155 mm 50% Block Shadecloth Cover	1	None	None	0.059	5.0	-
		1	1	0.231	9.8	-
			2	0.407	13.1	-
			3	0.518	14.7	-
			4	0.721	17.4	A

Infill Type	Number of Panels	Number of Braces Per Panel	Number of Blocks (Per Brace)	Outward Test Load (kN)	Calculated Wind Speed Capacity (m/s)	Australian Wind Region
Welded Wire Mesh 63 x 155 mm 70% Block Shadecloth Cover	1	None	None	0.059	4.5	-
		1	1	0.231	9.0	-
			2	0.407	11.9	-
			3	0.518	13.4	-
			4	0.721	15.9	A

Infill Type	Number of Panels	Number of Braces Per Panel	Number of Blocks (Per Brace)	Outward Test Load (kN)	Calculated Wind Speed Capacity (m/s)	Australian Wind Region
Welded Wire Mesh 63 x 155 mm 90% Block Shadecloth Cover	1	None	None	0.059	4.3	-
		1	1	0.231	8.5	-
			2	0.407	11.3	-
			3	0.518	12.8	-
			4	0.721	15.1	A

TABLE A10
WIND LOAD TEST DATA SINGLE PANEL ASSEMBLIES
WITH PERPENDICULAR 'HEAVY DUTY' BACK BRACE
AND FENCE PANEL LOCATED AT THE EDGE FOOT BLOCK HOLES

APPENDIX A:

Infill Type	Number of Panels	Number of Braces For Every 2 Panels	Number of Blocks (Per Brace)	Outward Test Load (kN)	Calculated Wind Speed Capacity (m/s)	Australian Wind Region
Welded Wire Mesh 63 x 155 mm No Shadecloth or Coverings	2	None	None	0.059	6.4	-
		1	1	0.290	14.1	-
			2	0.466	17.9	A
			3	0.577	19.9	A, B
			4	0.780	23.1	A, B, C

Infill Type	Number of Panels	Number of Braces For Every 2 Panels	Number of Blocks (Per Brace)	Outward Test Load (kN)	Calculated Wind Speed Capacity (m/s)	Australian Wind Region
Welded Wire Mesh 63 x 155 mm 50% Block Shadecloth Cover	2	None	None	0.059	3.5	-
		1	1	0.290	7.8	-
			2	0.466	9.9	-
			3	0.577	11.0	-
			4	0.780	12.8	-

Infill Type	Number of Panels	Number of Braces For Every 2 Panels	Number of Blocks (Per Brace)	Outward Test Load (kN)	Calculated Wind Speed Capacity (m/s)	Australian Wind Region
Welded Wire Mesh 63 x 155 mm 70% Block Shadecloth Cover	2	None	None	0.059	3.2	-
		1	1	0.290	7.1	-
			2	0.466	9.0	-
			3	0.577	10.1	-
			4	0.780	11.7	-

Infill Type	Number of Panels	Number of Braces For Every 2 Panels	Number of Blocks (Per Brace)	Outward Test Load (kN)	Calculated Wind Speed Capacity (m/s)	Australian Wind Region
Welded Wire Mesh 63 x 155 mm 90% Block Shadecloth Cover	2	None	None	0.059	3.1	-
		1	1	0.290	6.8	-
			2	0.466	8.6	-
			3	0.577	9.6	-
			4	0.780	11.1	-

TABLE A11
WIND LOAD TEST DATA DOUBLE PANEL ASSEMBLIES
WITH PERPENDICULAR 'HEAVY DUTY' BACK BRACE
AND FENCE PANEL LOCATED AT THE EDGE FOOT BLOCK HOLES

APPENDIX A:

Infill Type	Number of Panels	Number of Braces For Every 3 Panels	Number of Blocks (Per Brace)	Outward Test Load (kN)	Calculated Wind Speed Capacity (m/s)	Australian Wind Region
Welded Wire Mesh 63 x 155 mm No Shadecloth or Coverings	3	None	None	0.059	5.2	-
		1	1	0.349	12.6	-
			2	0.525	15.5	A
			3	0.636	17.1	A
			4	0.839	19.6	A, B
		2	1	0.529	15.6	A
			2	0.883	20.1	A, B
			3	1.179	23.2	A, B, C
4	1.565		26.8	A, B, C, D		

Infill Type	Number of Panels	Number of Braces For Every 3 Panels	Number of Blocks (Per Brace)	Outward Test Load (kN)	Calculated Wind Speed Capacity (m/s)	Australian Wind Region
Welded Wire Mesh 63 x 155 mm 50% Block Shadecloth Cover	3	None	None	0.059	2.9	-
		1	1	0.349	7.0	-
			2	0.525	8.6	-
			3	0.636	9.5	-
			4	0.839	10.9	-
		2	1	0.529	8.6	-
			2	0.883	11.2	-
			3	1.179	12.9	-
4	1.565		14.9	-		

Infill Type	Number of Panels	Number of Braces For Every 3 Panels	Number of Blocks (Per Brace)	Outward Test Load (kN)	Calculated Wind Speed Capacity (m/s)	Australian Wind Region
Welded Wire Mesh 63 x 155 mm 70% Block Shadecloth Cover	3	None	None	0.059	2.6	-
		1	1	0.349	6.4	-
			2	0.525	7.9	-
			3	0.636	8.6	-
			4	0.839	9.9	-
		2	1	0.529	7.9	-
			2	0.883	10.2	-
			3	1.179	11.8	-
4	1.565		13.6	-		

Infill Type	Number of Panels	Number of Braces For Every 3 Panels	Number of Blocks (Per Brace)	Outward Test Load (kN)	Calculated Wind Speed Capacity (m/s)	Australian Wind Region
Welded Wire Mesh 63 x 155 mm 90% Block Shadecloth Cover	3	None	None	0.059	2.5	-
		1	1	0.349	6.1	-
			2	0.525	7.5	-
			3	0.636	8.2	-
			4	0.839	9.4	-
		2	1	0.529	7.5	-
			2	0.883	9.7	-
			3	1.179	11.2	-
4	1.565		12.9	-		

**TABLE A12
WIND LOAD TEST DATA TRIPLE PANEL ASSEMBLIES
WITH PERPENDICULAR ‘HEAVY DUTY’ BACK BRACE
AND FENCE PANEL LOCATED AT THE EDGE FOOT BLOCK HOLES**



APPENDIX B:

Infill Type	Number of Panels	Number of Braces Per Panel	Number of Blocks (Per Brace)	Outward Test Load (kN)	Calculated Wind Speed Capacity (m/s)	Australian Wind Region
Welded Wire Mesh 63 x 155mm No Shadecloth or Coverings	1	None	None	0.076	10.2	-
		2	1	0.590	28.3	A, B, C, D
			2	0.854	34.1	A, B, C, D
			3	1.194	40.3	A, B, C, D
			4	1.484	44.9	A, B, C, D

Infill Type	Number of Panels	Number of Braces Per Panel	Number of Blocks (Per Brace)	Outward Test Load (kN)	Calculated Wind Speed Capacity (m/s)	Australian Wind Region
Welded Wire Mesh 63 x 155 mm 50% Block Shadecloth Cover	1	None	None	0.076	5.6	-
		2	1	0.590	15.7	A
			2	0.854	18.9	A, B
			3	1.194	22.4	A, B, C
			4	1.484	24.9	A, B, C, D

Infill Type	Number of Panels	Number of Braces Per Panel	Number of Blocks (Per Brace)	Outward Test Load (kN)	Calculated Wind Speed Capacity (m/s)	Australian Wind Region
Welded Wire Mesh 63 x 155 mm 70% Block Shadecloth Cover	1	None	None	0.076	5.1	-
		2	1	0.590	14.3	-
			2	0.854	17.3	A
			3	1.194	20.4	A, B
			4	1.484	22.7	A, B, C

Infill Type	Number of Panels	Number of Braces Per Panel	Number of Blocks (Per Brace)	Outward Test Load (kN)	Calculated Wind Speed Capacity (m/s)	Australian Wind Region
Welded Wire Mesh 63 x 155 mm 90% Block Shadecloth Cover	1	None	None	0.076	4.9	-
		2	1	0.590	13.6	-
			2	0.854	16.4	A
			3	1.194	19.4	A, B
			4	1.484	21.6	A, B, C

TABLE B1
WIND LOAD TEST DATA SINGLE PANEL ASSEMBLIES
WITH ANGLED F-FRAME BACK BRACE
AND FENCE PANEL LOCATED AT THE CENTRE FOOT BLOCK HOLES

APPENDIX B:

Infill Type	Number of Panels	Number of Braces Per Panel	Number of Blocks (Per Brace)	Outward Test Load (kN)	Calculated Wind Speed Capacity (m/s)	Australian Wind Region
Welded Wire Mesh 63 x 155mm No Shadecloth or Coverings	1	None	None	0.059	9.0	-
		2	1	0.526	26.7	A, B, C, D
			2	0.844	33.9	A, B, C, D
			3	1.183	40.1	A, B, C, D
			4	1.391	43.5	A, B, C, D

Infill Type	Number of Panels	Number of Braces Per Panel	Number of Blocks (Per Brace)	Outward Test Load (kN)	Calculated Wind Speed Capacity (m/s)	Australian Wind Region
Welded Wire Mesh 63 x 155 mm 50% Block Shadecloth Cover	1	None	None	0.059	5.0	-
		2	1	0.526	14.8	-
			2	0.844	18.8	A, B
			3	1.183	22.3	A, B, C
			4	1.391	24.1	A, B, C, D

Infill Type	Number of Panels	Number of Braces Per Panel	Number of Blocks (Per Brace)	Outward Test Load (kN)	Calculated Wind Speed Capacity (m/s)	Australian Wind Region
Welded Wire Mesh 63 x 155 mm 70% Block Shadecloth Cover	1	None	None	0.059	4.5	-
		2	1	0.526	13.5	-
			2	0.844	17.2	A
			3	1.183	20.3	A, B
			4	1.391	22.0	A, B, C

Infill Type	Number of Panels	Number of Braces Per Panel	Number of Blocks (Per Brace)	Outward Test Load (kN)	Calculated Wind Speed Capacity (m/s)	Australian Wind Region
Welded Wire Mesh 63 x 155 mm 90% Block Shadecloth Cover	1	None	None	0.059	4.3	-
		2	1	0.526	12.9	-
			2	0.844	16.3	A
			3	1.183	19.3	A, B
			4	1.391	20.9	A, B

TABLE B2
WIND LOAD TEST DATA SINGLE PANEL ASSEMBLIES
WITH ANGLED F-FRAME BACK BRACE
AND FENCE PANEL LOCATED AT THE EDGE FOOT BLOCK HOLES

APPENDIX B:

Infill Type	Number of Panels	Number of Braces Per Panel	Number of Blocks (Per Brace)	Outward Test Load (kN)	Calculated Wind Speed Capacity (m/s)	Australian Wind Region
Welded Wire Mesh 63 x 155mm No Shadecloth or Coverings	1	None	None	0.076	10.2	-
		2	1	0.442	24.5	A, B, C, D
			2	0.728	31.5	A, B, C, D
			3	0.960	36.1	A, B, C, D
			4	1.178	40.0	A, B, C, D

Infill Type	Number of Panels	Number of Braces Per Panel	Number of Blocks (Per Brace)	Outward Test Load (kN)	Calculated Wind Speed Capacity (m/s)	Australian Wind Region
Welded Wire Mesh 63 x 155 mm 50% Block Shadecloth Cover	1	None	None	0.076	5.6	-
		2	1	0.442	13.6	-
			2	0.728	17.5	A
			3	0.960	20.0	A, B
			4	1.178	22.2	A, B, C

Infill Type	Number of Panels	Number of Braces Per Panel	Number of Blocks (Per Brace)	Outward Test Load (kN)	Calculated Wind Speed Capacity (m/s)	Australian Wind Region
Welded Wire Mesh 63 x 155 mm 70% Block Shadecloth Cover	1	None	None	0.076	5.1	-
		2	1	0.442	12.4	-
			2	0.728	15.9	A
			3	0.960	18.3	A, B
			4	1.178	20.3	A, B

Infill Type	Number of Panels	Number of Braces Per Panel	Number of Blocks (Per Brace)	Outward Test Load (kN)	Calculated Wind Speed Capacity (m/s)	Australian Wind Region
Welded Wire Mesh 63 x 155 mm 90% Block Shadecloth Cover	1	None	None	0.076	4.9	-
		2	1	0.442	11.8	-
			2	0.728	15.1	A
			3	0.960	17.4	A
			4	1.178	19.2	A, B

TABLE B3
WIND LOAD TEST DATA SINGLE PANEL ASSEMBLIES
WITH ANGLED ‘HEAVY DUTY’ BACK BRACE
AND FENCE PANEL LOCATED AT THE CENTRE FOOT BLOCK HOLES

APPENDIX B:

Infill Type	Number of Panels	Number of Braces Per Panel	Number of Blocks (Per Brace)	Outward Test Load (kN)	Calculated Wind Speed Capacity (m/s)	Australian Wind Region
Welded Wire Mesh 63 x 155mm No Shadecloth or Coverings	1	None	None	0.059	9.0	-
		2	1	0.323	21.0	A, B, C
			2	0.469	25.3	A, B, C, D
			3	0.841	33.8	A, B, C, D
			4	0.921	35.4	A, B, C, D

Infill Type	Number of Panels	Number of Braces Per Panel	Number of Blocks (Per Brace)	Outward Test Load (kN)	Calculated Wind Speed Capacity (m/s)	Australian Wind Region
Welded Wire Mesh 63 x 155 mm 50% Block Shadecloth Cover	1	None	None	0.059	5.0	-
		2	1	0.323	11.6	-
			2	0.469	14.0	-
			3	0.841	18.8	A, B
			4	0.921	19.6	A, B

Infill Type	Number of Panels	Number of Braces Per Panel	Number of Blocks (Per Brace)	Outward Test Load (kN)	Calculated Wind Speed Capacity (m/s)	Australian Wind Region
Welded Wire Mesh 63 x 155 mm 70% Block Shadecloth Cover	1	None	None	0.059	4.5	-
		2	1	0.323	10.6	-
			2	0.469	12.8	-
			3	0.841	17.1	A
			4	0.921	17.9	A

Infill Type	Number of Panels	Number of Braces Per Panel	Number of Blocks (Per Brace)	Outward Test Load (kN)	Calculated Wind Speed Capacity (m/s)	Australian Wind Region
Welded Wire Mesh 63 x 155 mm 90% Block Shadecloth Cover	1	None	None	0.059	4.3	-
		2	1	0.323	10.1	-
			2	0.469	12.1	-
			3	0.841	16.3	A
			4	0.921	17.0	A

TABLE B4
WIND LOAD TEST DATA SINGLE PANEL ASSEMBLIES
WITH ANGLED ‘HEAVY DUTY’ BACK BRACE
AND FENCE PANEL LOCATED AT THE EDGE FOOT BLOCK HOLES

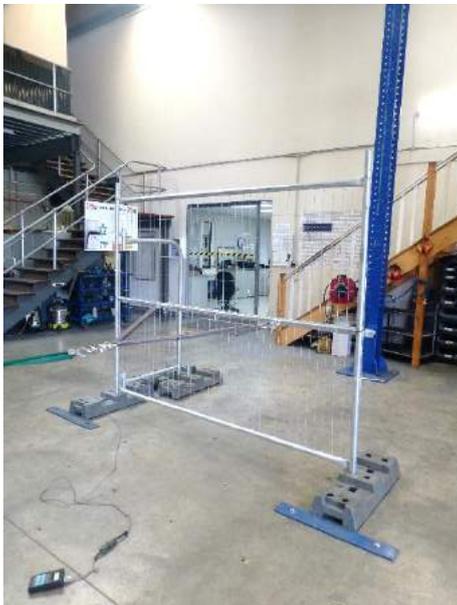
APPENDIX C:



**FIG. C1
'F-FRAME' BACK BRACE**



**FIG. C2
'HEAVY DUTY' BACK BRACE**



**FIG. C3
WIND LOAD TEST SET UP
PERPENDICULAR F-FRAME BACK BRACE
AND FENCE PANEL LOCATED AT THE CENTRE
FOOT BLOCK HOLES**



**FIG. C4
WIND LOAD TEST SET UP
PERPENDICULAR F-FRAME BACK BRACE
AND FENCE PANEL LOCATED AT THE EDGE
FOOT BLOCK HOLES**

APPENDIX C:



FIG. C5
WIND LOAD TEST SET UP
PERPENDICULAR 'HEAVY DUTY' BACK BRACE
AND FENCE PANEL LOCATED AT THE CENTRE
FOOT BLOCK HOLES



FIG. C6
WIND LOAD TEST SET UP
PERPENDICULAR 'HEAVY DUTY' BACK BRACE
AND FENCE PANEL LOCATED AT THE EDGE
FOOT BLOCK HOLES



FIG. C7
WIND LOAD TEST SET UP
ANGLED 'F-BRACE' BACK BRACE
AND FENCE PANEL LOCATED AT THE CENTRE
FOOT BLOCK HOLES



FIG. C8
WIND LOAD TEST SET UP
ANGLED 'F-BRACE' BACK BRACE
AND FENCE PANEL LOCATED AT THE EDGE
FOOT BLOCK HOLES

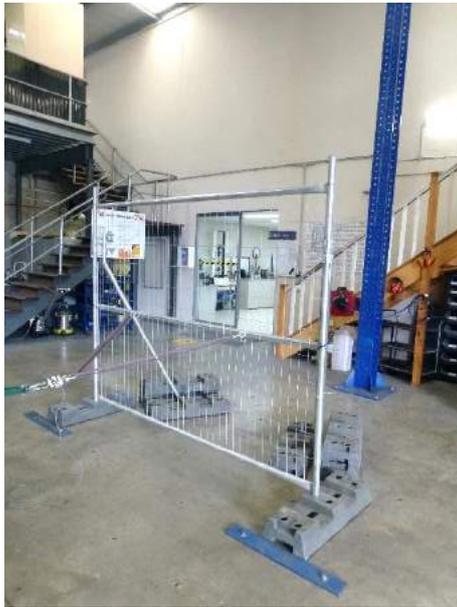


FIG. C9
WIND LOAD TEST SET UP
ANGLED 'HEAVY DUTY' BACK BRACE
AND FENCE PANEL LOCATED AT THE CENTRE
FOOT BLOCK HOLES

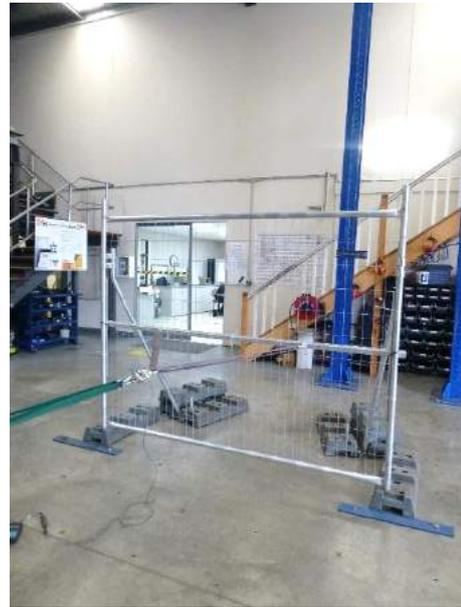


FIG. C10
WIND LOAD TEST SET UP
ANGLED 'HEAVY DUTY' BACK BRACE
AND FENCE PANEL LOCATED AT THE EDGE
FOOT BLOCK HOLES



FIG. C11
'F-FRAME' ANGLED BACK BRACE SET-UP
APPROX. 65°



FIG. C12
'HEAVY DUTY' ANGLED BACK BRACE SET-UP
APPROX. 45°