

Certification Body:



**BUREAU  
VERITAS**

Bureau Veritas Australia Pty Ltd  
3/435 Williamstown Road  
Port Melbourne VIC, 3207  
Ph: 1800 855 190  
www.bureauveritas.com.au

Certificate Holder:



Workplace Defender Pty Ltd  
42 Overseas Drive,  
Noble Park North VIC, 3174  
Ph: 1300 013 794  
www.workplacedefender.com.au

Certificate number: CM70045 Rev1

THIS TO CERTIFY THAT

**Defender**

**Step Type Ladders, Rung Type Ladders, Stairways, Walkways, Platforms and Guardrailing**

**Type and/or use of product:**

Step and rung ladders, stairways, and walkways for access to places normally used by operating, inspection, maintenance, and servicing personnel in buildings.

**Description of product:**

Defender Stairways  
Defender Platforms  
Defender Guardrailing  
Defender Walkways  
Defender Step Type Ladders  
Defender Rung Type Ladders

COMPLIES WITH THE FOLLOWING BCA PROVISIONS AND STATE OR TERRITORY VARIATION(S)

**BCA 2019**

	Volume One		Volume Two
<b>Performance Requirement(s)</b>	BP1.1(a),(b)(ii)(iii)(xi)(x) DP2	<b>Structural reliability</b> Safe movement to and within a building	N/A
<b>Deemed-to-Satisfy Provision(s):</b>	D1.16(b)(iii)(iv)  D1.17(b)(iii) D2.13 D2.16 D2.17 D2.18 H1.6	<b>Plant rooms, lift machine rooms and electricity network substations: concession</b>  Access to lift pits Goings and risers Barriers to prevent falls Handrails Fixed platforms, walkways, stairways and ladders Class 9b buildings	N/A
<b>State or territory variation(s):</b>	NSW D2.13(a)(ix),(x),(xi) NSW Table D2.16a 1 SA D2.16(c) SA D2.18(c) Tas H113.3(d)	Goings and risers Barriers to prevent falls Barriers to prevent falls Fixed platforms, walkways, stairways and ladders Foundries	N/A



Certification Body name and signature



Daniel Darakas - Unrestricted Building Certifier

Date of issue: 22 December 2020

Date of expiry: 15 August 2022



# Certificate of Conformity

**SUBJECT TO THE FOLLOWING LIMITATIONS AND CONDITIONS AND THE PRODUCT TECHNICAL DATA IN APPENDIX A AND EVALUATION STATEMENTS IN APPENDIX B**

**Limitations and conditions:**

1. The choice of ladder, stairway, walkway, platforms and guardrailing shall be in accordance with AS 1657:2018 - Fixed platforms, walkways, stairways and ladders — Design, construction and installation
2. The installation of the Defender Step and Rung Ladders, Stairways, Walkways, Platforms and Guardrailing shall only be undertaken by Workplace Defender Installers or Workplace Defender accredited contractors. Contact Defender Website for list of accredited contractors.
3. The installation of the Defender Step and Rung Ladders, Stairways, Walkways, Platforms and Guardrailing shall be in accordance with AS 1657:2018 - Fixed platforms, walkways, stairways and ladders — Design, construction and installation, and the Product Installation Guide (dated 1 July 2020)
4. The fixing of the Step and Rung Ladders, Stairways, Walkways, Platforms and Guardrailing to the building structure is outside the scope of this assessment. The supporting building structure and fixing for installation shall be assessed for adequacy.

**Building classification/s:**

Class 2 to Class 9 buildings

**Scope of certification:** The CodeMark Scheme is a building product certification scheme. The rules of the Scheme are available at the ABCB website [www.abcb.gov.au](http://www.abcb.gov.au). This Certificate of Conformity is to confirm that the relevant requirements of the Building Code of Australia (BCA) as claimed against have been met. The responsibility for the product performance and its fitness for the intended use remain with the certificate holder. The certification is not transferrable to a manufacturer not listed on Appendix A of this certificate.

**Disclaimer:** The Scheme Owner, Scheme Administrator and Scheme Accreditation Body do not make any representations, warranties or guarantees, and accept no legal liability whatsoever arising from or connected to, the accuracy, reliability, currency or completeness of any material contained within this certificate; and the Scheme Owner, Scheme Administrator and Scheme Accreditation Body disclaim to the extent permitted by law, all liability (including negligence) for claims of losses, expenses, damages and costs arising as a result of the use of the product(s) referred to in this certificate.

## APPENDIX A – PRODUCT TECHNICAL DATA

### A1 Type and intended use of product

Refer to page 1 for intended use of product.

### A2 Description of product

Refer to page 1 for description.

### A3 Product specification

The product specification is available at the Defender website [www.workplacedefender.com.au](http://www.workplacedefender.com.au).

### A4 Manufacturer and manufacturing plant(s)

42 Overseas Drive, Noble Park North VIC 3174, Australia

### A5 Installation requirements

The installation of the Defender Step and Rung Ladders, Stairways, Walkways, Platforms and Guardrailing shall be in accordance with AS 1657:2018 - Fixed platforms, walkways, stairways and ladders — Design, construction and installation, the Product Installation Guide (dated 1 July 2020), and the following standard design drawings:

- Stairway and Landing Standard Drawings SM-001 Sheet 1 of 2 and 2 of 2 (Rev B). (Dated 9-10-14),
- Platforms Standard Drawings SM-002 Sheet 1 of 2 (Rev A) and 2 of 2 (Rev A). (Dated 2-4-13),
- Guard Rail Post Assembly Standard Drawings SM-003 Sheet 1 of 2 (Rev A) and 2 of 2 (Rev A). (Dated 2-4-13),
- Walkways Standard Drawings SM-004 Sheet 1 of 3 (Rev A), 2 of 3 (Rev A) and 3 of 3 (Rev A). (Dated 5-3-13),
- Ladders Standard Drawings SM-005 Sheet 1 of 7, 2 of 7, 3 of 7, 4 of 7, 5 of 7, 6 of 7 and 7 of 7 (Rev B). (Dated 9-10-14).

### A6 Other relevant technical data

The following additional tests are available from Workplace Defender Pty Ltd. They were not used in this assessment.

Reference	Test Body	Item	Date
13/7475.4	Attar/NATA	Oil wet inclining platform slip resistance test, Defender Walkway	28/11/2013
MT13/742-A.1	M.T.S./NATA	Defender Rung Ladder, rung tread strength test	12/12/2013
MT13/742-A.2	M.T.S./NATA	Defender Rung Ladder, rung tread shear strength test	12/12/2013
MT13/742-A.3	M.T.S./NATA	Defender Rung Ladder, stile deflection test	12/12/2013
MT13/742-A.4	M.T.S./NATA	Defender Rung Ladder, stile strength test	12/12/2013

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MT13/742-A.5	M.T.S./NATA	Defender Rung Ladder, stile side sway test	12/12/2013
MT13/742-A.6	M.T.S./NATA	Defender Rung Ladder, stile extension deflection test	12/12/2013
MT13/742-A.7	M.T.S./NATA	Defender Rung Ladder, stile extension lateral deflection test	12/12/2013
MT13/742-B.1	M.T.S./NATA	Defender Step Type Ladder, rung tread strength test	12/12/2013
MT13/742-B.2	M.T.S./NATA	Defender Step Type Ladder, rung tread shear strength test	12/12/2013
MT13/742-B.3	M.T.S./NATA	Defender Step Type Ladder, stile deflection test	12/12/2013
MT13/742-B.4	M.T.S./NATA	Defender Step Type Ladder, stile strength test	12/12/2013
MT13/742-B.5	M.T.S./NATA	Defender Step Type Ladder, stile side sway test	12/12/2013
MT13/742-C.1	M.T.S./NATA	Defender, Guardrailing strength test	12/12/2013
MT13/742-B.7	M.T.S./NATA	Defender, Guardrailing deflection test	12/12/2013
165	Workplace Access /NATA	Defender, Guardrailing test - rail	16/08/2016
1	Workplace Access /NATA	Defender, Guardrailing test - rail	27/02/2013
2	Workplace Access /NATA	Defender, Guardrailing test - rail	27/02/2013
3	Workplace Access /NATA	Defender, Guardrailing test - post assembly	19/03/2013
7	Workplace Access /NATA	Defender, Guardrailing test - 3m span	5/08/2013
8	Workplace Access /NATA	Defender, Guardrailing test - 2m span	5/08/2013
9	Workplace Access /NATA	Defender, Guardrailing test - 3m span	5/08/2013
15/8944.1	Attar/NATA	Oil wet inclining platform slip resistance test, Defender Step Type Ladder top step 400	14/04/2015
15/8944.2	Attar/NATA	Oil wet inclining platform slip resistance test, Defender Step Type Ladder top step 230	14/04/2015
15/8944.3	Attar/NATA	Oil wet inclining platform slip resistance test, Defender Platform floor	14/04/2015
13/7475.1	Attar/NATA	Oil wet inclining platform slip resistance test, Defender aluminium walkway	28/11/2013
13/7475.2	Attar/NATA	Oil wet inclining platform slip resistance test, Defender rung	28/11/2013
13/7475.3	Attar/NATA	Oil wet inclining platform slip resistance test, Defender Step Type Ladder tread and Defender Stairway step	28/11/2013
68	Workplace Access /NATA	Defender, Guardrailing test - post assembly test	7/08/2014
69	Workplace Access /NATA	Defender, Guardrailing test - post assembly test	8/08/2014
70	Workplace Access /NATA	Defender, Guardrailing test - post assembly test	8/08/2014
75	Workplace Access /NATA	Defender, Guardrailing test - post assembly test	12/08/2014
94	Workplace Access /NATA	Defender, Rung Ladder - deflection test	28/08/2014
95	Workplace Access /NATA	Defender, Guardrail post test	29/09/2014
96	Workplace Access /NATA	Defender, toeboard deflection test	14/10/2014
102	Workplace Access /NATA	Defender Rung Ladder test - 3.1m	4/12/2014
103	Workplace Access /NATA	Defender Step Type Ladder test - 5.5m	8/12/2014
104	Workplace Access /NATA	Defender Stairway test - 5.8m	2/02/2015
161	Workplace Access /NATA	Defender, Guardrail post test	22/07/2016
162	Workplace Access /NATA	Defender Guardrail - rail test	25/07/2016
165	Workplace Access /NATA	Defender Guardrail - rail test	16/08/2016
174	Workplace Access /NATA	Defender Guardrail - rail test	3/07/2019

## APPENDIX B – EVALUATION STATEMENTS

### B1 Evaluation methods

- Structural Assessment – Volume 1 – A2.2(2)(a)/A5.2(1)(d) – A report from an accredited testing facility – Melbourne Testing Services, and A2.2(2)(a)/A5.2(1)(e) – A report from a professional engineer – Howard Morley & Associates
- Access Assessment – Volume 1 – A2.2(2)(a)/A5.2(1)(e) – A report from a professional engineer – Howard Morley & Associates, and A2.3(2)(a)/A5.2(1)(e) – A report from a professional engineer – Howard Morley & Associates

### B2 Reports

#### 1. Certification Standard Stair Assembly by Howard Morley & Associates (dated 13-10-2014 and 20-2-2017)

This certificate provides certification of the Stairway and Landing Standard Drawings to BCA Volume One clauses D2.18, H1.6, D1.17, AS/NZS4100, AS/NZS1170, AS 1657 and AS/NZS1664.

#### 2. Certification Standard Guardrail Assembly and Rail Assembly by Howard Morley & Associates (dated 13-10-2014 and 20-2-2017)

This certificate provides certification of the Guard Rail Post Assembly Standard Drawings to BCA Volume One clauses D2.18, AS/NZS1170, AS 1657 and AS/NZS1664.

#### 3. Certification Standard Roof Mounted Walkways by Howard Morley & Associates (dated 13-10-2014 and 20-2-2017)

This certificate provides certification of the Walkways Standard Drawings to BCA Volume One clauses D2.18, AS/NZS1170, AS 1657 and AS/NZS1664.

#### 4. Certification Standard Rung Type Ladder by Howard Morley & Associates (dated 13-10-2014)

This certificate provides certification of the Ladder Standard Drawings for figures 2, 3, 4, 10 and 11 on drawings Sheet 2 of 7 (Rev A) , 3 of 7 (Rev A) , 4 of 7 (Rev A) , 5 of 7 (Rev A) to BCA Volume One clauses D2.18, D1.16(b)(iii and (iv), AS/NZS1170, AS 1657 and AS/NZS1664.

#### 5. Certification Standard Step Type Ladder by Howard Morley & Associates (dated 13-10-2014 and 20-2-17)

This certificate provides certification of the Ladder Standard Drawings for figures 7 and 8 on drawings 6 of 7 (Rev A) and 7 of 7 (Rev A) to BCA Volume One clauses D2.18, D1.16(b)(iii) and (iv), AS/NZS1170, AS 1657 and AS/NZS1664.

#### 6. Report #3 prepared by Workplace Access and Safety (dated 19-3-2013)

This report contains the results of testing the guardrail post in accordance with AS 1657:1992, Appendix B.

#### 7. Report #4 prepared by Workplace Access and Safety (dated 19-3-2013)

This report contains the results of testing the guardrail in accordance with AS 1657:1992, Appendix C.

#### 8. Fall Prevention Test Certificate prepared by Workplace Access and Safety – Certificate Number 8776/1 (dated 14th October 2014)

This report contains the results of testing the toeboard in against the static performance requirements as specified in AS 1657:2013 Clause 6.1.2.

#### 9. Test Certificate and report No. 8383 prepared by Workplace Access and Safety (dated 9-10-2014)

This report contains the results of testing the guardrail posts in accordance with AS 1657:2013, Appendix B.

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**10. Computations 3768-1 prepared by Howard Morley and Associates (dated August 2012)**

This set of computations relates to the design of the handrail for Region D cyclone conditions.

**11. Computations 3521-1 prepared by Howard Morley and Associates (dated October 2010)**

This set of computations relates to the design of the standard step type ladder components.

**12. Computations 3521-5 prepared by Howard Morley and Associates (dated October 2010)**

This set of computations relates to the design of the standard rung type ladder components.

**13. Computations 3581-6 prepared by Howard Morley and Associates (dated October 2010)**

This set of computations relates to the design of the standard rung type ladder components.

**14. Computations 3521-6 prepared by Howard Morley and Associates (dated October 2010)**

This set of computations relates to the design of the standard step type ladder components.

**15. Computations 3811-1 to 3 prepared by Howard Morley and Associates (dated December 2012)**

This set of computations relates to the design of the standard platform components.

**16. Computations 3672-1A,2A prepared by Howard Morley and Associates (dated January 2012)**

This set of computations relates to the design of the standard stair assembly components.

**17. Computations 3788-4 prepared by Howard Morley and Associates (dated November 2012)**

This set of computations relates to the design of the standard roof mounted walkways components.

**18. Computations 3788-1A, 2A prepared by Howard Morley and Associates (dated October 2012)**

This set of computations relates to the guardrail and handrail and platform components.

**19. Computations 3963-1 to 6 prepared by Howard Morley and Associates (dated 25 June 2013)**

This set of computations relates to the guardrail and handrail and platform components.

**20. Computations 4021 prepared by Howard Morley and Associates (dated May 2014)**

This set of computations relates to the guardrail and handrail and platform components.

**21. Typical support details 3811-WD1 prepared by Howard Morley and Associates (dated December 2012)**

These details relate to the standard roof mounted walkway.

**22. Letter of Certification, fixing of standard walkway to roofing to suit Cat D cyclone area by Howard Morley & Associates (dated 20-2-2017)**

This provides certification of the fixing of standard walkway to roofing to suit Cat D cyclone area to AS/NZS1170, AS 1657.

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**23. Letter of Certification, Standard Aluminium Stair Tread by Howard Morley & Associates (dated 20-2-2017)**

This provides certification of the standard aluminium stair tread to AS/NZS1170, AS 1664.

**24. Letter of Certification, standard handrail post to withstand Region D cyclone loading compared to AS 1657 (roof fixing by others) by Howard Morley & Associates (dated 20-2-2017)**

This provides certification of the of standard handrail post to withstand Region D cyclone loading compared to AS 1657 (roof fixing by others) to AS/NZS1170, AS 1657.

**25. Letter of Certification, stand stair assembly (upper support by others) by Howard Morley & Associates (dated 20-2-2017)**

This provides certification of stand stair assembly (upper support by others) to AS 1657, AS 1664.

**26. Letter of Certification, standard intermediate landing and access ladders by Howard Morley & Associates (dated 20-2-2017)**

This provides certification of standard intermediate landing and access ladders to AS/NZS 1170, AS 1657, AS 1664.

**27. Letter of Certification, Checking suitability of Wonderglass GC, 2400gsm Spandek profile to span 1.6m in Region D cyclone area (to be installed with fixing to every rib) by Howard Morley & Associates (dated 20-2-2017)**

This provides certification of the suitability of Wonderglass GC, 2400gsm Spandek profile to span 1.6m in Region D cyclone area (to be installed with fixing to every rib) to AS/NZS 1170.

**28. Mechanical Testing, Melbourne Testing Services, Testing of a Fixed Aluminium Ladder, Report No: MT-13/742-A (dated 12th December 2013)**

This test report provides results of various test methods in accordance with AS1657-2013 Appendix F, including Rung/Tread strength test, Rung/tread shear strength test, ladder stile deflection test, ladder stile strength test, ladder stile side sway test, ladder stile extension deflection test, and ladder stile extension lateral deflection test.

**29. Mechanical Testing, Melbourne Testing Services, Testing of a Fixed Aluminium Ladder, Report No: MT-13/742-B (dated 12th December 2013)**

This test report provides results of various test methods in accordance with AS1657-2013 Appendix F, including Rung/Tread strength test, Rung/tread shear strength test, ladder stile deflection test, ladder stile strength test, ladder stile side sway test, ladder stile extension deflection test, and ladder stile extension lateral deflection test.

**30. Mechanical Testing, Melbourne Testing Services, Testing of Aluminium Tube Sections, Report No: MT-13/742-C (dated 12th December 2013)**

This report provides results of load testing to aluminium tube sections to Clauses C4.6 and B4.8 as AS1657.

**31. Report on the Testing of a Guardrail Post on a 100mm Insulated sandwich panel, by Howard Morley & Associates Pty Ltd (dated 11 December 2011)**

This report provides results to testing to guardrail requirements of AS/NZS1657-1993 and confirms that the product meet the requirements resistance of a force up to 550N in accordance with the standard.