

## Defender™ walkways for tiled roofs

Defender walkway systems are always ready, providing safe, swift and easy access to roof-top plant for personnel without any specialised height safety training.

Carrying **StandardsMark™** product certification, Defender access and safety equipment is designed by engineers, tested in a **NATA™-accredited** facility and installed by Certified Defender Installers.

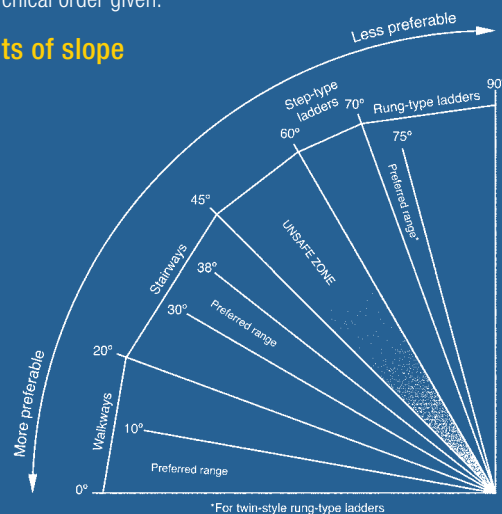
Defender walkways for tiled roofs fully comply with the **National Construction Code, AS 1657, OHS legislation** and **state regulations**.

Most importantly, every Defender walkway system is individually built to suit your site and the way your people work. The result is strong, reliable equipment that delivers fully compliant access and true safety.

### About the AS 1657 Standard

The AS 1657 Standard requires that the means of access shall be selected from the following limits of slope, and considered in the hierarchical order given:

#### Limits of slope



Defender's wide range of equipment includes all the means of access discussed in AS 1657, in addition to all components (stabilizing brackets, safety-lines, guardrails, hand-rails, cages, intermediate platforms/landings & platforms, lockable gates, access hatches, etc.), for a complete and safe height access system.

### Quick delivery, minimal disruption

For rapid delivery, Defender walkway systems are stocked in our warehouse in kit form to suit all standard roof and platform profiles. No welding or grinding is needed on-site so your Defender walkway can be installed with minimal disruption.

### Other Specifications Guides in the **DEFENDER** series:

- |                         |                               |
|-------------------------|-------------------------------|
| Access Hatches          | Rung Ladders                  |
| Cooling Tower Platforms | Staircases                    |
| Guardrails              | Static Lines & Rail Systems   |
| Landings & Platforms    | Step Type Ladders             |
| Roof Anchors            | Internal & Suspended Walkways |



#### AS 1657 Approved

AS 1657 is the Australian Standard for the design, construction and installation of guardrails, fixed platforms, walkways, staircases and ladders. This standard underpins Defender's performance.

#### ISO 9001 Quality

ISO 9001 is the world's most established quality framework, currently used by over 750,000 organisations in 161 countries. This standard assures Defender's quality.

#### NATA™ Accredited Testing

NATA is the authority that provides independent assurance of technical competence through a proven network of best practice industry experts. The criteria for determining a facility's competence are based on the relevant international standard (e.g. ISO/IEC 17025, ISO 15189, ISO/IEC 17020). NATA provides assessment, accreditation and training services to laboratories and technical facilities throughout Australia and internationally.

#### CodeMark™ – National Construction Code Approved

The CodeMark scheme recognises Defender's compliance with the National Construction Code (formerly the BCA).

Get it done right, first time, for less.  
Defender equipment and installation is extraordinarily cost-effective. Why?  
Because smart design shouldn't cost extra.

**CALL US TODAY ON 1300 013 794  
TO ARRANGE A VISIT FROM A  
CERTIFIED DEFENDER™ CONSULTANT**



To order, receive a quote, or for more information contact us today at:

[enquiries@workplacedefender.com.au](mailto:enquiries@workplacedefender.com.au)  
or call 1300 013 794

[www.workplacedefender.com.au](http://www.workplacedefender.com.au)

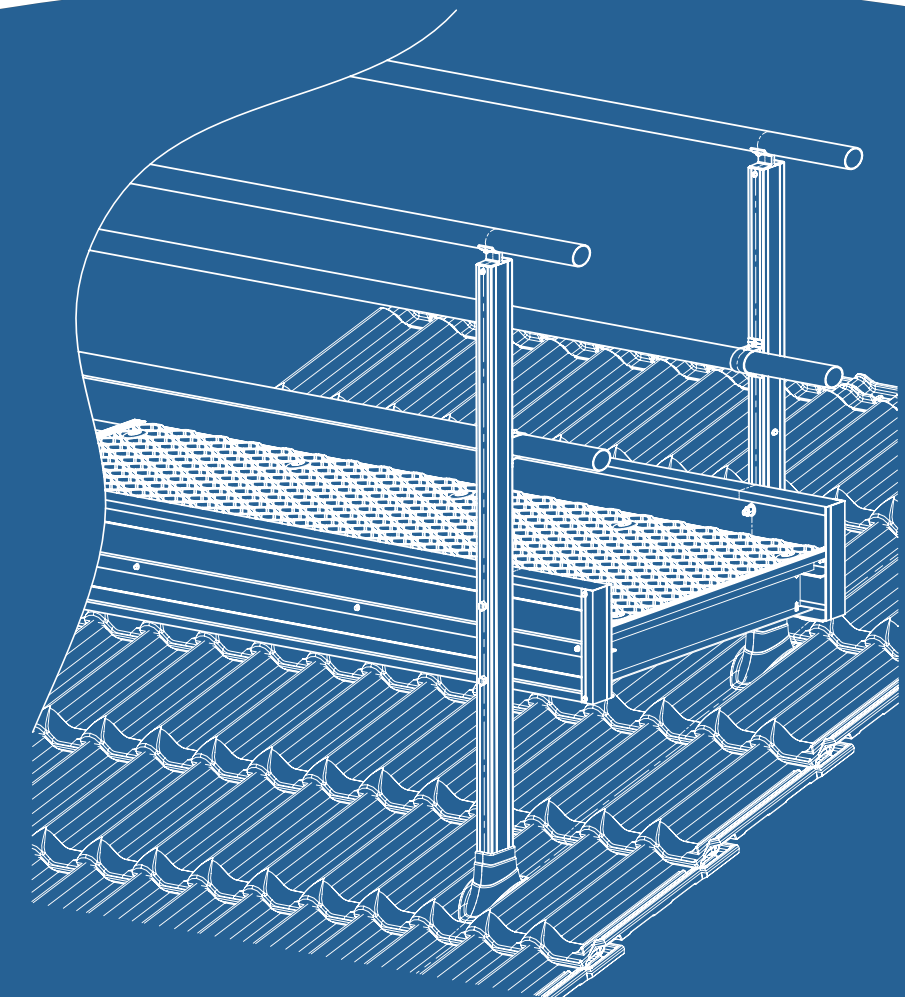
Certified Defender™ Installer:

**workplace  
access&safety®**

the fall prevention specialists

Telephone 1300 552 984  
[www.workplaceaccess.com.au](http://www.workplaceaccess.com.au)

# Walkways For Tiled Roofs SPECIFICATIONS GUIDE



[www.workplacedefender.com.au](http://www.workplacedefender.com.au)



Defender™ walkways for tiled roofs

Walk along a Defender walkway and we guarantee you'll sense its inherent stability. There's no bouncing, no contact with the roof sheeting and a grip that offers real security.

Tough, yet extraordinarily gentle on roofs, Defender sets the benchmark in safety and durability but the secret to its performance lies in a thousand details. Little things like fewer roof penetrations, extra bearers, lab-tested slip-resistance, seamless joins, coloured compliance plates that withstand the Australian weather, and independently certified quality control.

It all adds up to safe, manageable access across a leak-free roof. Not just now but for years to come.

Manufacture and installation specifications:

- > The clear width of the walkway shall be at least 600mm.
- > Any gap between adjacent made-up sections of grated floors shall not exceed 10mm.
- > A toe board shall be provided at the edge of a walkway where an object could fall more than 2000mm.
- > Walkways shall be designed for the dead load of the designed structure plus a minimum superimposed live loading of 2.5kPa uniformly distributed.
- > All penetrations to be sealed with Decktite fittings. (See Figure 2.)

Trip hazards controlled at terminations and joins - installation with end bar and joiner bar

- > Joiner cap to be fitted where any walkway module adjoins another walkway section.
- > End cap to be fitted where walkway terminates.

Walkways for inclines

- > From 0-7 degrees, walkways are to be fixed on the flat roof surface. (See Figure 3.)
- > When ascending the areas with gradients ranging from 7 to 20 degrees, install cleats to the walkway at intervals prescribed in AS 1657 to allow pedestrians to walk up the incline without slipping. (See Figure 4.)
- > When traversing inclines ranging from 7 to 20 degrees, walkways are to be levelled over the flat roof surface. Provide guardrail at the lower side, to exposed edge. (See Figure 5.)
- > Where guardrails are provided on both sides of a walkway, the clear width of the walkway measured between the innermost guardrails shall not be less than 550mm. (See Figure 2.)

Independent certification to Australian Standards

- > Walkway system shall be independently certified to AS 1657 by a member of the Association of Accredited Certification Bodies (SAI Global™).



- > ISO 9001 design certification to ensure consistent delivery of walkway systems that meet OHS requirements and minimise the incidence of roof leaks.



Testing

- > Tested and certified to meet AS/NZS 4568 by wet pendulum test to minimum R10 by NATA™-accredited laboratory.



Corrosion resistance

- > Manufactured from non-corrosive Grade 6063 aluminium and hot-dipped galvanised components.

Demonstrably competent installers

- > Height safety installers to demonstrate competency through training delivered by a registered training organisation.



- > Independent certification to show the walkway system meets the requirements of the National Construction Code (formerly the BCA) by the CodeMark™ Building Certification Scheme or an independent registered building certifier.



- > Installation performed by organization independently certified to AS/NZS 4801 Standard for Health and Safety Management Systems.



Documentation and labelling

- > Comprehensive handover documentation allows the system to be properly managed by the workplace controller.
- > Provides all of the user information, layouts and compliance labelling to meet AS 1657 safety requirements.

Traceability

- > Mark all walkways to provide full traceability through to material batches.

Design

- > System layout and design to be completed by an RTO-trained designer.

Design Certification

- > Issue a design certificate guaranteeing the system meets the requirements of the Code of Practice (Safe Design of Structures 2012).

Labelling

- > Mark each walkway individually with a unique ID number specifying the manufacturer, installer, certifier and next inspection due date on a label that is capable of withstanding at least 12 months of weather exposure. (See Figure 1.)

Figure 1.



Figure 2.

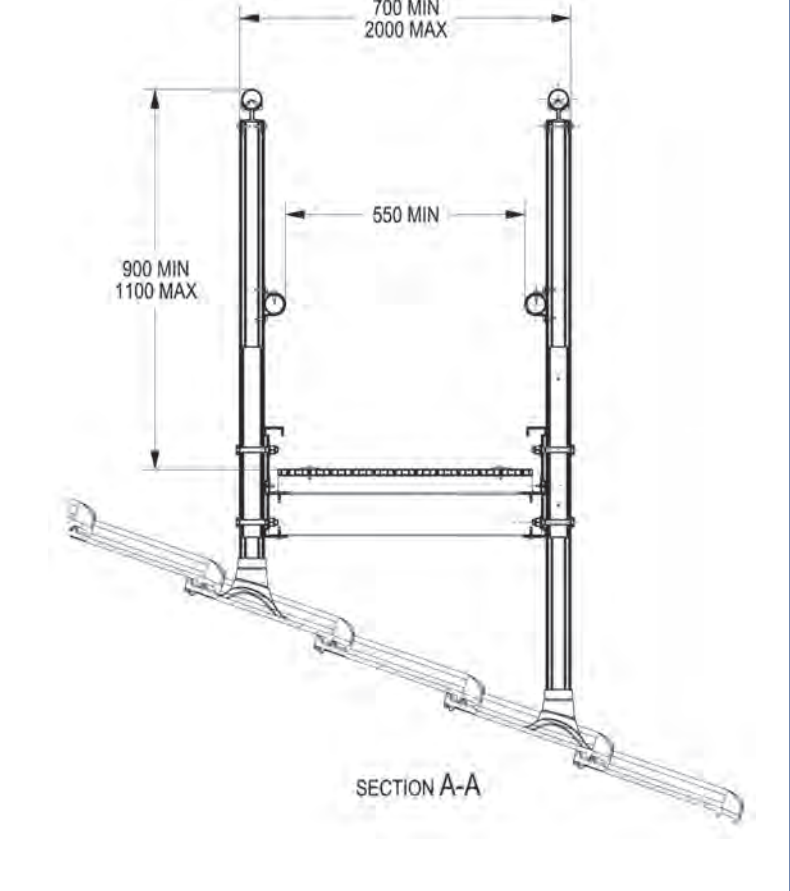


Figure 3. Walkway

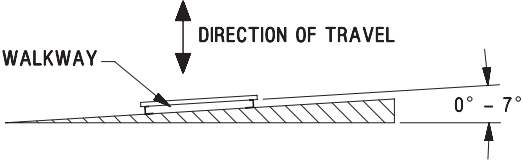


Figure 4. Walkway with Cleats

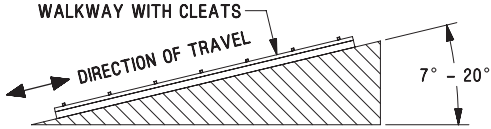


Figure 5. Levelled Walkway

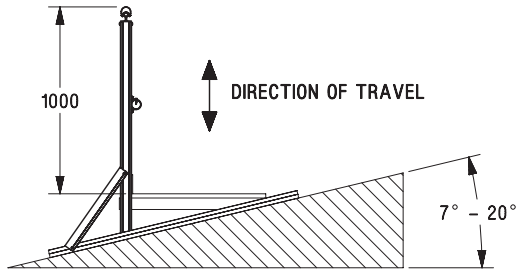
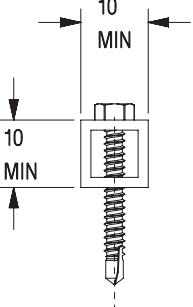


Figure 6. Cleats




Recommended designer, manufacturer, installer and certifier:

workplace access&safety®

Telephone 1300 552 984  
www.workplaceaccess.com.au



			TOLERANCES U.N.O.		TITLE: DEFENDER™ – WALKWAYS FOR TILED ROOFS		SIZE <b>A3</b>
DRAWN:	MGB	30/07/13	FABRICATION 0-1000: 1.0 >1000: 2.0	DWG. No. <b>143-000</b>			
CHECKED:	MGB	30/07/13	MACHINING ± 0.2				
APPROVED:	-	30/07/13	MACHINE SURFACES	-			
 DO NOT SCALE			HOLE POSITION	SHEET 1 OF 3			
			ALL DIMENSIONS IN mm				

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