

Defender™ walkways for asbestos roofs

Defender walkways 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 fully comply with the **Australian National Construction Code** (formerly the BCA), **AS 1657** requirements, **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.

No asbestos dust, no disruption

The walkway's support structure sits in the 'super six' asbestos profile, with existing penetrations used for fastenings, rather than drilling extra holes into the asbestos.

Low cost compliance

Correctly installed, the design complies with prevention of falls regulations and Australian Standard AS 1657-2013, while achieving access at a fraction of the cost of roof replacement or the disruption to operations normally associated with work on asbestos surfaces.

Eliminate OHS risks

Brittle roofs – whether due to asbestos or skylights – are all made safe to cross with a Defender walkway. You'll also eliminate slip and trip hazards, while providing a clear, level and safe path to plant.

Site safety

Air is monitored during the entire process to ensure that asbestos fibres are not disturbed during installation.

Installers work in PPE suitable for site conditions and are trained and qualified to work with asbestos.

Working over brittle surfaces poses risk for our installers and people below, so all work processes are taken into account and installers work off temporary roof mounted platforms during the installation.

All safety documentation is covered under our AS/NZS 4801 system, ensuring an incident-free installation.

Suit every pitch

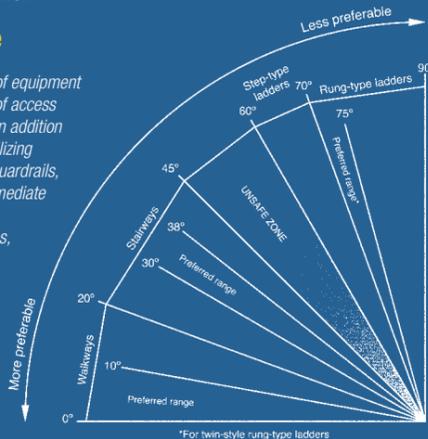
If the pitch of the roof exceeds 7°, walkways are levelled in accordance with AS 1657.

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.



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).

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 |

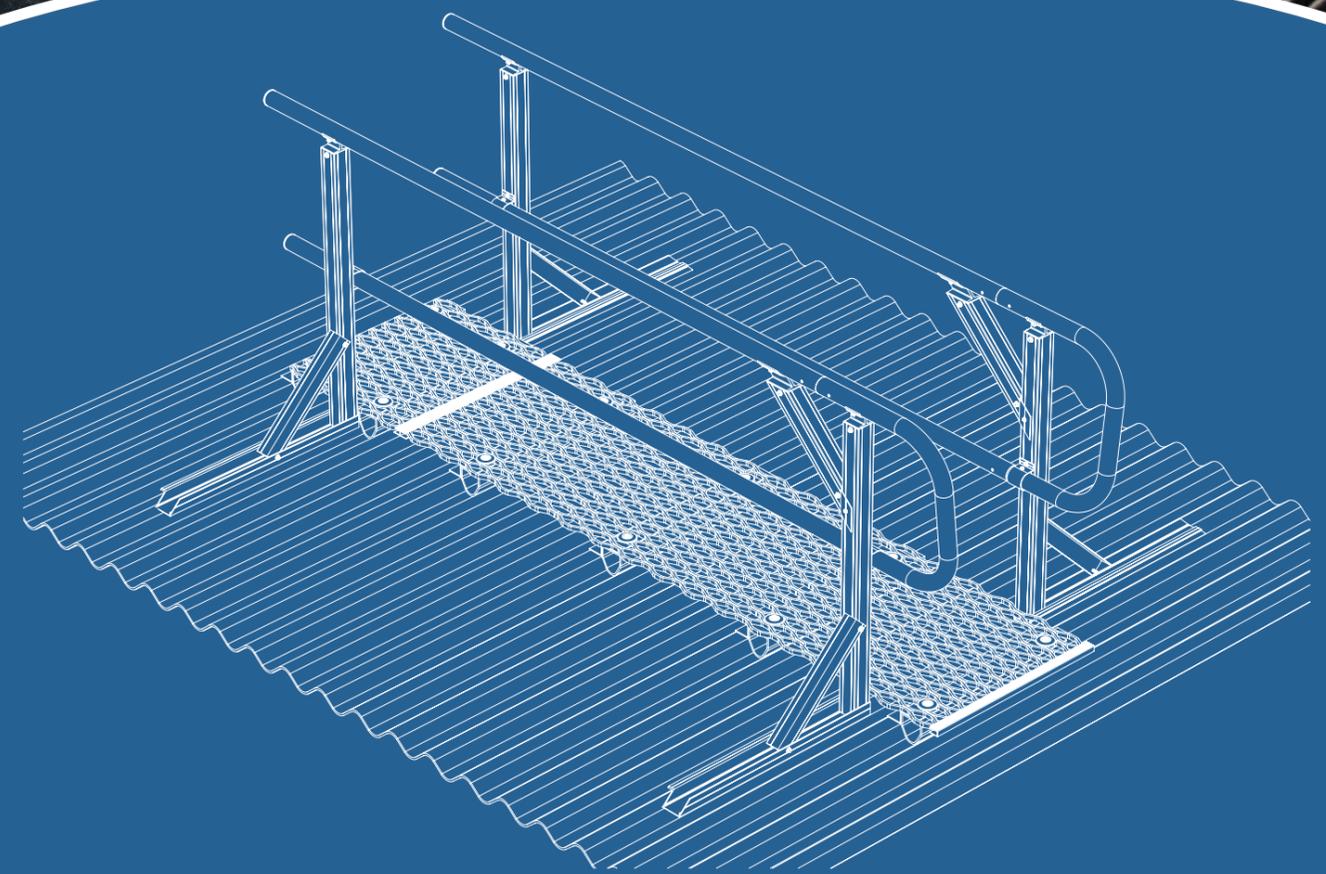
Get it done right, first time, for less. Defender equipment and installation is extraordinarily cost-effective. Why? Because smart design shouldn't cost extra.

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CERTIFIED DEFENDER™ CONSULTANT**

Walkways For Asbestos Roofs

SPECIFICATIONS GUIDE

DEFENDER™
Independently certified safety



DEFENDER™
Independently certified safety

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or call 1300 013 794

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the fall prevention specialists

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Defender™ walkways for asbestos roofs

Manufacture and installation specifications:

- > Asbestos cement roofing material (commonly known as 'Super Six') is a brittle surface, which presents a fall hazard. Control measures are to be provided as detailed in this document to ensure that team members and contractors do not fall through the material and do not injure themselves, the public or other team members.
- > Lay the walkway over extrusion, which is to fit into Super Six profile. (See Figure 5.)
- > The clear width of the walkway shall be at least 600mm.
- > Walkways shall be designed for the dead load of the designed structure plus a minimum superimposed live loading of 2.5kPa, uniformly distributed.
- > Install aluminium walkway system (13mm or 22mm only).
- > Intermediate support spans to be 650mm for 13mm walkway and 900mm for 22mm walkway.
- > All works to be in accordance with:
 - National Code of Practice – How to manage and control asbestos in the workplace.
 - National Code of Practice – How to safely remove asbestos.
- > Control measures to comply with AS 1657.
- > A toe board shall be provided at the edge of a walkway where an object could fall more than 2000mm.
- > Walkways are to be installed to provide access to any equipment that requires routine maintenance access every 12 months or less. This includes air conditioners, refrigeration, extraction for cooking areas, extraction over offices, satellite dishes, telecommunications equipment, fans, etc.

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

- > When traversing inclines ranging from 7 to 20 degrees, walkways are to be levelled over the flat roof surface. Provide guardrail on both sides to prevent stepping or falls onto brittle surface. (See Figure 2.)
- > 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. Install guardrail on both sides. (See Figure 4.)
- > 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.

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



AS 1657
Approved
SMK40193



Quality
ISO 9001
QMS40263

Testing

- > Tested in a NATA™-accredited laboratory to meet the mandatory AS 1657 tests for fixing, strength and durability and R10 slip resistance.



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.

- > Air quality to be monitored and tested daily during installation.

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.
- > Provide installation certificate to format provided stating designer, fabricator, installer and certifier with each installation.

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.)

Guardrail

- > Guardrail to be tested in a NATA™-accredited laboratory to comply with AS 1657 Appendices B. (Testing of guardrail for posts and testing of guardrails).
- > All components are to be mechanically fixed and based on a guardrail height of 1000mm and a post spacing of 2000mm.
- > Mark each guardrail 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 3.)

Figure 1.



Figure 3.



Figure 2.

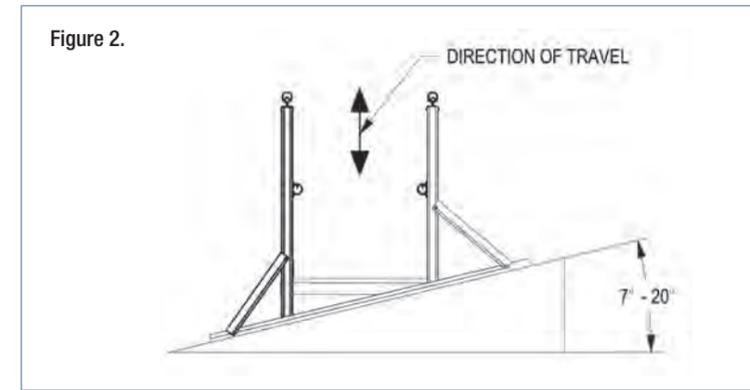


Figure 4.

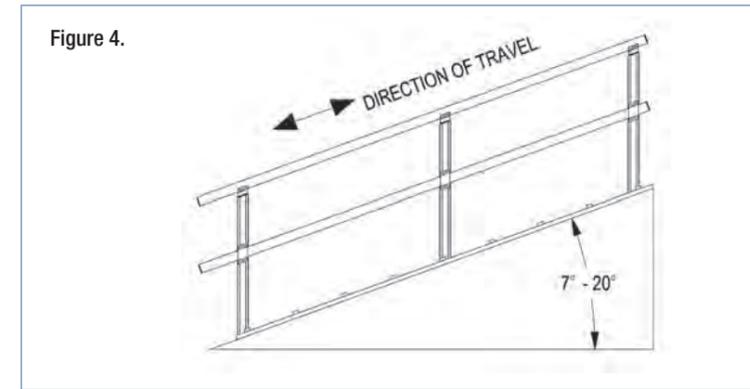


Figure 5.

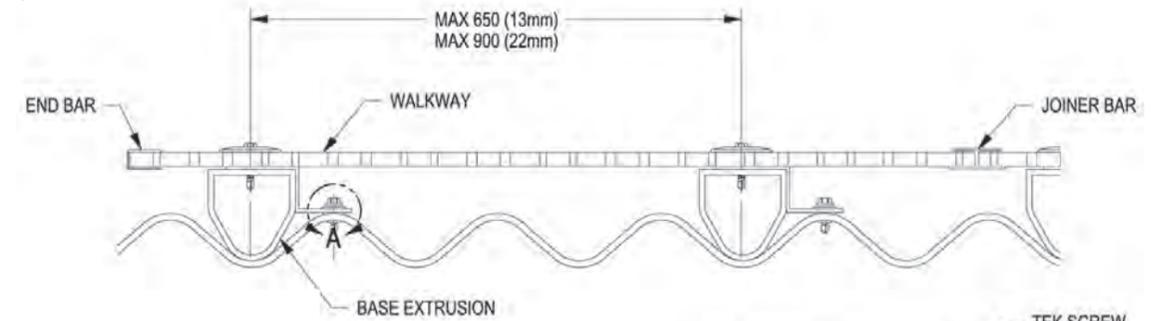
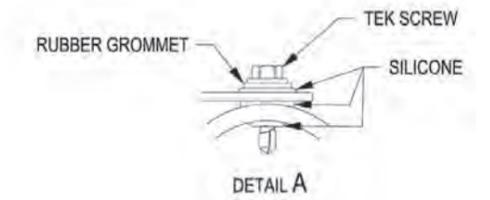


Figure 6.



Recommended designer, manufacturer, installer and certifier:



Telephone 1300 552 984
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DRAWN: MGB 30/07/13		TOLERANCES U.N.O.		TITLE: DEFENDER™ – WALKWAYS FOR ASBESTOS ROOFS	
CHECKED: MGB 30/07/13		FABRICATION 0-1000: 1.0 >1000: 2.0		DWG. No. 143-000	
APPROVED: - 30/07/13		MACHINING : 0.2		SIZE A3	
DO NOT SCALE		MACHINE SURFACES		SHEET 1 OF 3	
HOLE POSITION		ALL DIMENSIONS IN mm		SCALE: 1:15	

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