

Defender™ staircases

The Defender differences add up to remarkably robust staircases that are easier and safer to use. But don't just take our word for it: Defender brings the assurance of independently certified safety.

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

Defender staircases fully comply with the **National Construction Code, AS 1657, OHS legislation** and **state regulations**.

Most importantly, every Defender staircase 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.

Quick delivery, minimal disruption

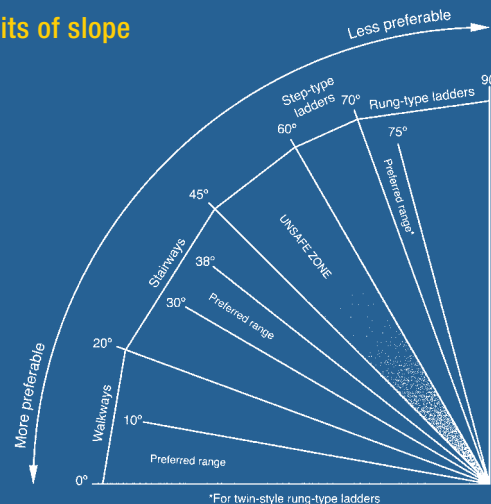
For rapid delivery, Defender staircases are stocked in our warehouse in kit form to suit all standard roof and platform profiles. No welding or grinding is needed on-site so your Defender staircase can be installed with minimal disruption.

CONTACT US TODAY FOR MORE INFORMATION

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 (stabilising brackets, safety-lines, guardrails, hand-rails, cages, intermediate platforms, lockable gates, access hatches, etc.), for a complete and safe height access system.

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

- | | |
|-------------------------|-------------------------------|
| Access Hatches | Rung Ladders |
| Cooling Tower Platforms | Static Lines & Rail Systems |
| Guardrails | Step Type Ladders |
| Landings & Platforms | Walkways |
| 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 being 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.

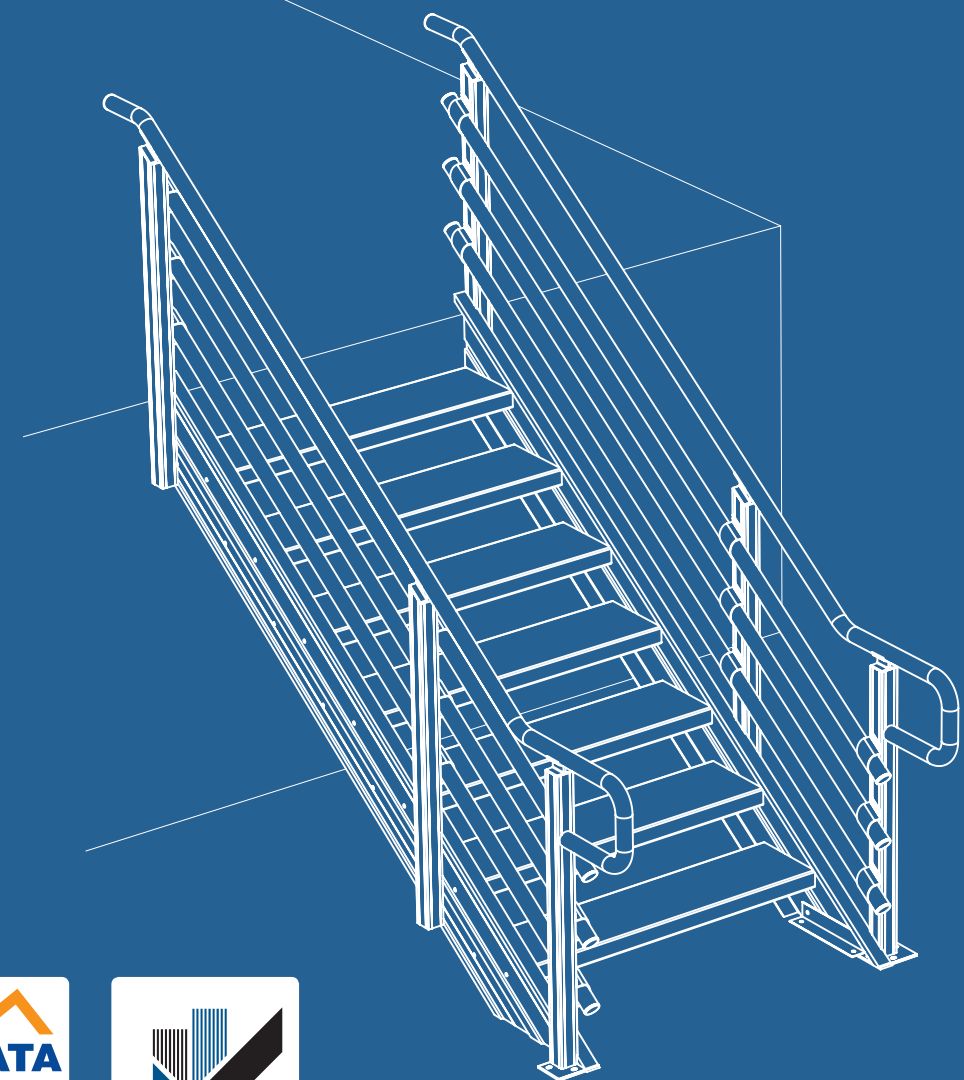
**CALL US TODAY ON 1300 013 794
TO ARRANGE A VISIT FROM A
CERTIFIED DEFENDER™ CONSULTANT**



Staircases

SPECIFICATIONS GUIDE

DEFENDER™
Independently certified safety



DEFENDER™
Independently certified safety

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

enquiries@workplacedefender.com.au
or call 1300 013 794

www.workplacedefender.com.au

Certified Defender™ Installer:

**workplace
access&safety®**

the fall prevention specialists

Telephone 1300 552 984
www.workplaceaccess.com.au



www.workplacedefender.com.au

Defender™ staircases

Manufacture and installation specifications:

- > The stairway is designed for the dead load of the structure plus a superimposed loading of not less than 2.5kpa uniformly distributed.
- > Treads are designed for a distributed load of not less than 2.2kN per lineal metre of stairway width or a concentrated loading of 1kN, whichever loading produces the more adverse effect.
- > The length and width of the landing shall be not less that the width of the stairway.
- > The landing shall have a minimum vertical head clearance distance of not less than 2000mm.
- > Every access landing shall provide standing space of at least 600mm clear of cross traffic or door swing in accordance with staircase width.
- > A barrier or change in direction shall be provided every 36 risers.
- > The combination of twice the riser plus the going (2R+G) shall not be less than 540mm, and not greater than 700mm. (i.e $540 \leq (2R+G) \leq 700$)
- > The tread width shall not be less than the going and there shall be a minimum overlap of 10mm.
- > Handrail shall be provided on one side for stairways less than 1000mm and on two sides for greater than 1000mm.
- > All risers shall be of uniform dimension within a range of 5mm.
- > Minimum handrail outside diameter shall be 30mm.
- > The nosing of each step shall be highlighted in yellow.
- > The steps shall be tested for slip resistance to a minimum R10 rating in a *NATA™-accredited* laboratory.

Independent certification

- > Independently certified to Australian Standard AS 1657 by *SAI Global™* and/or equivalent JASANZ accredited certification body.

Testing

- > Tested in a *NATA™-accredited* laboratory to meet the seven mandatory AS 1657 tests for stile, rung, fixing, extended stile strength and durability.

Manufacture

- > Manufactured by an independently audited *StandardsMark™* accredited facility, delivering consistent product with full traceability.

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.

Installation

- > Height safety installers demonstrate competency through training delivered by a registered training organisation.
- > Independently accredited installation contractor to install the staircase.

Management Systems

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

Environmental accreditation

- > Manufacture and construction to be conducted by an organisation independently certified to satisfy the ISO 14001 Environmental Management System standard recognising the management of primary environmental issues.

Traceability

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

Design

- > System layout and design to be completed by an RTO-trained designer.
- > Staircases to be designed and installed to suit the specific platform profile and work method, to ensure full compliance to Australian Safety Standards.

Design Certification

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

Labelling

- > Tag/label each staircase 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.

DEFENDER™ STAIRWAYS							
Certified by  Australian Standard AS 1657 SMK40193	 SAIG-CH0000						
Installed by workplace access&safety® 1300 552 984							
Inspection next due date: <table border="1"><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr></table>							
Do not use if damaged							
Job No. <input type="text"/>	Registered design, patent pending www.workplacedefender.com.au						



Figure 2.

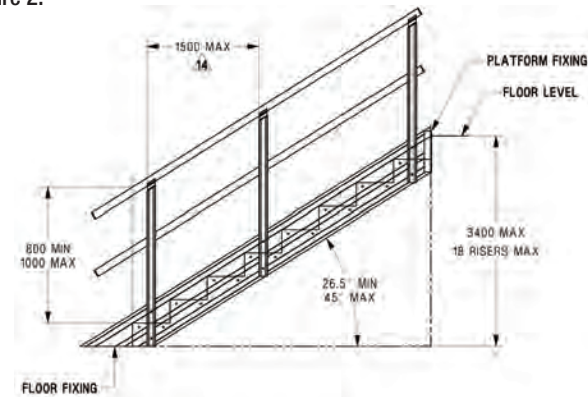


Figure 3.

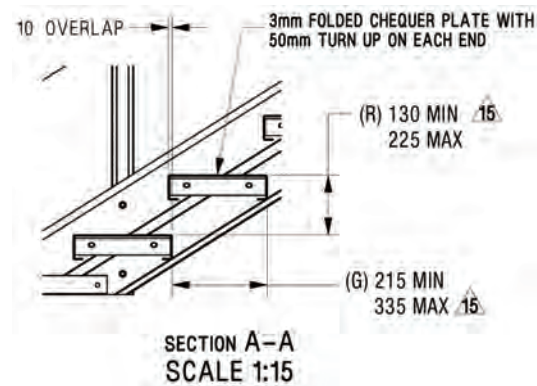


Figure 5.

Staircase for platform

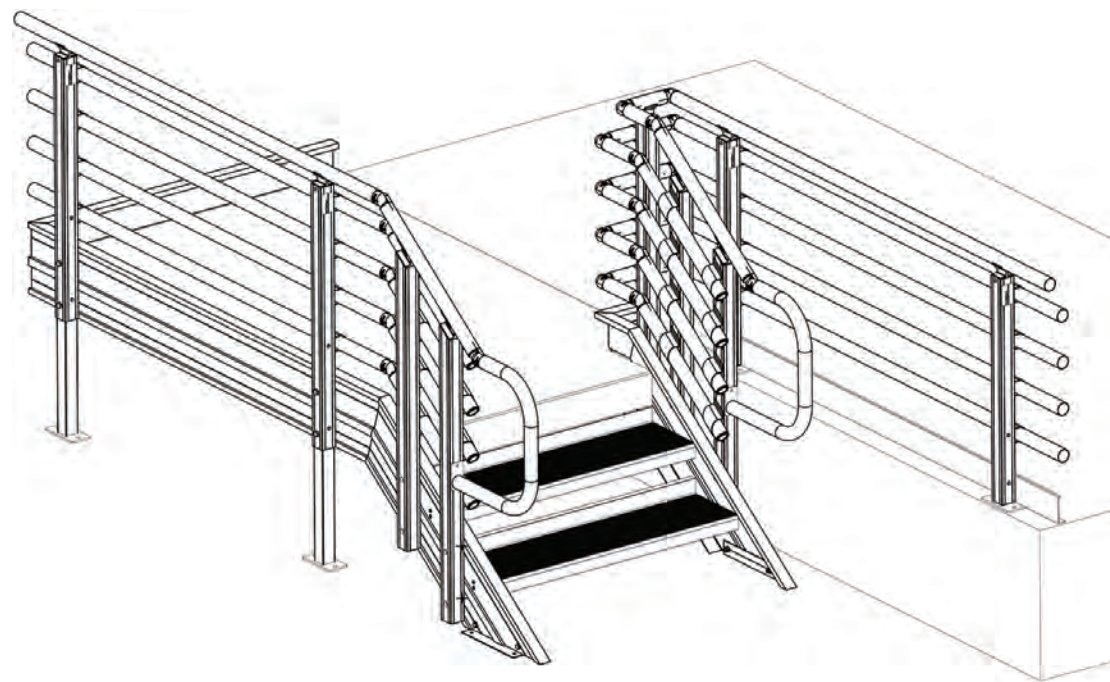
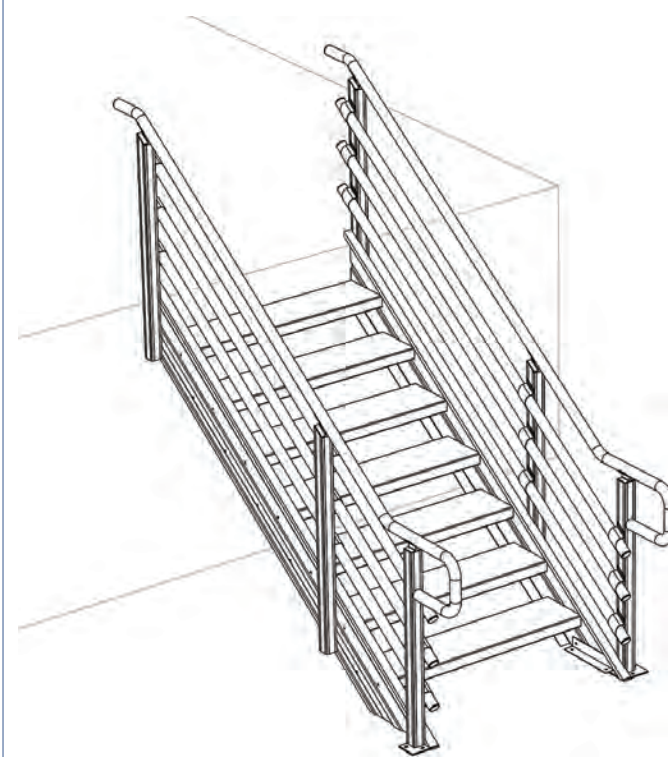


Figure 4. Staircase for loading dock



Recommended designer, manufacturer, installer and certifier:

workplace access&safety®

Telephone 1300 552 984
www.workplaceaccess.com.au

DEFENDER™

DRAWN:	MGB	02/04/13
CHECKED:	MGB	02/04/13
APPROVED:	-	02/04/13
DO NOT SCALE		

TOLERANCES U.N.O.
FABRICATION 0-1000 ± 1.0
>1000 ± 2.0
MACHINING ± 0.2
MACHINE SURFACES
HOLE POSITION
ALL DIMENSIONS IN mm

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TITLE: DEFENDER™ – STAIRCASES

DWG. No. SM-001

REV C

SHEET 1 OF 1

SCALE: NONE

SIZE
A3