

## Defender™ cooling tower platforms

Defender Cooling Tower Platforms are the safe and choice for accessing cooling towers, elevated areas and mechanical plant. The robust and reliable platform systems prevent damage to your cooling tower and roof while providing access for workers, even without specialist height safety skills.

Designed and tested in our **NATA™-accredited** fall prevention laboratory, Defender cooling tower platforms fully comply with the **Australian National Construction Code** (formerly the BCA), **AS 1657** requirements, **OHS legislation** and **state regulations**.

## Defender™ ... independently certified safety

Accredited with **StandardsMark™** and **CodeMark™** quality certification, Defender access and safety equipment provides superior strength and reliability – every time.

And because a platform is only as good as its configuration and installation, Defender is tailor-made to suit your site and installed only by Certified Defender Installers.

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.



### 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™ HEIGHT SAFETY CONSULTANT**

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

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



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:

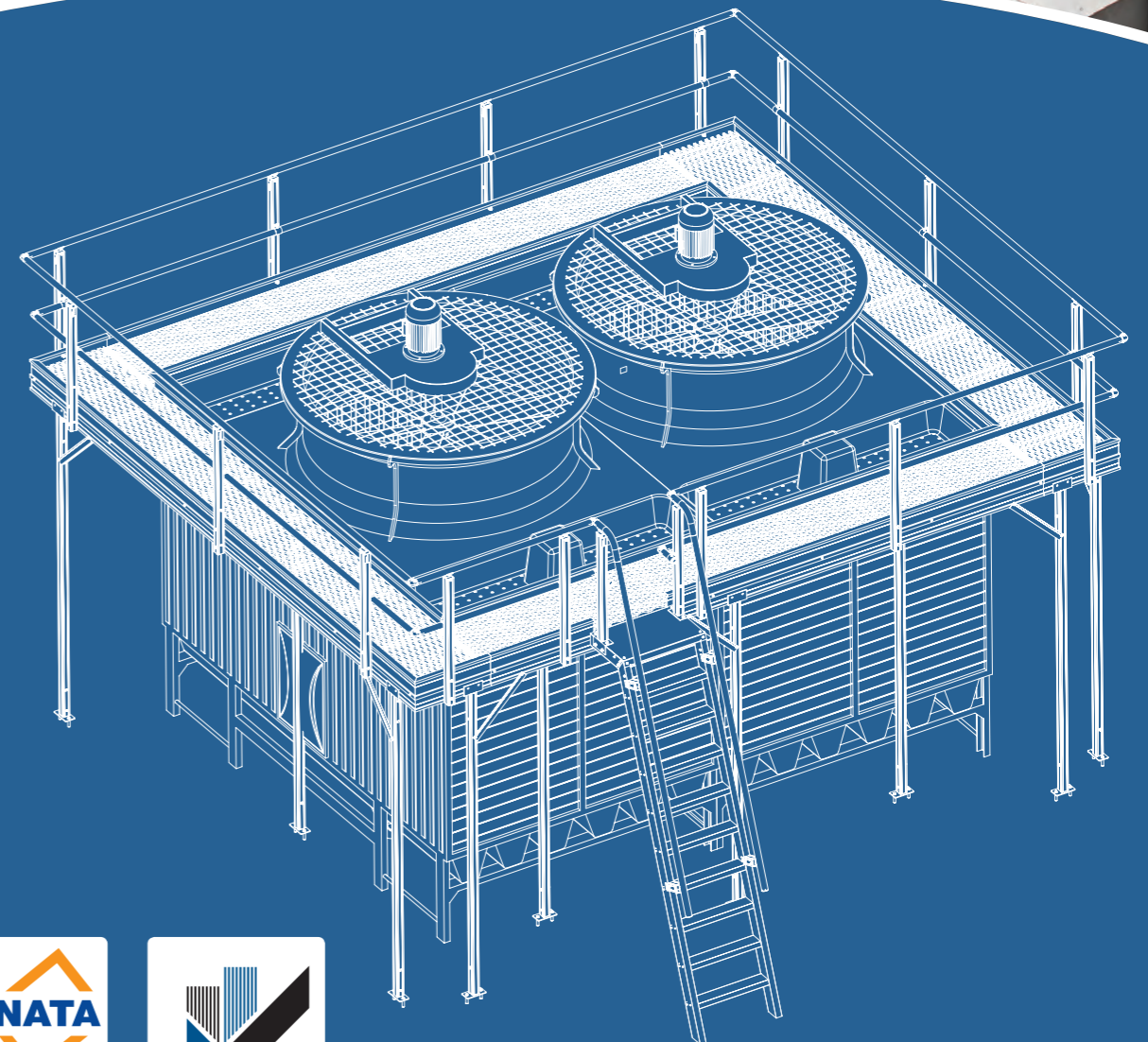
**workplace  
access&safety®**

the fall prevention specialists

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

# Cooling Tower Platforms

## SPECIFICATIONS GUIDE



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

# Defender™ cooling tower platforms

## Manufacture and installation specifications:

- > Platforms shall be nominally horizontal. Where drainage is required, the slope shall not exceed 1 in 35.
- > Where the level of a platform above an adjacent platform or floor is not more than 300mm, access from one level to the other may be gained without the provision of an intermediate step. Where the change of level is greater than 300mm but does not exceed 450mm, one intermediate step shall be provided. Access between adjacent levels where the difference exceeds 450mm shall be in accordance with the requirements of Section 4 or Section 5 or by a sloping walkway in accordance with Clause 3.1.2.
- > Minimum vertical clearance - The vertical clearance above platforms and walkways shall be not less than 2000mm.
- > Width - The clear width of every platform shall be not less than 600mm.
- > The platform shall be designed for the dead-load of the designed structure, plus a minimum superimposed live load of 2.5kpa uniformly distributed.

## Platform

- > Where guardrailing is provided on sides of a platform, the clear width of the platform measured between the inner-edge of the guardrails shall be not less than 550mm. Where there is a fixed structure not more than 100mm away from one side of a platform, the clear width of the platform measured between the structure and the inner edge of the guardrail shall be not less than 600mm. (See Figure 2.)
- > Where there is a fixed structure not more than 100mm away from both sides of a platform, the clear width of the platform measured between the two structures shall be not less than 600mm.
- > Grated floors shall be a slip resistant surface (rated to R10), of minimum size 5000mm², with the smaller dimension not exceeding 40mm, rated to R10. (See Figure 3.)

## Protection at sides, ends, edges, and openings

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

## Guardrailing

- > Continuous guard-railing complying with Clause 3.4 shall be provided on the sides and ends of all platforms and walkways, except at points of access from a stairway or ladder, or where there is a permanent structure not more than 100mm away from the edge of the platform or walkway which will give protection equal to or greater than that prescribed in Clause 3.4. (See Figure 4.)
- > Guardrailing may need to be provided on the sides and ends of a platform that is more than 300mm above that of an adjacent platform or floor.

## Toe-boards and Chequer plates

- > A toe-board complying with Clause 3.4.3 shall be provided at the edge of a platform, walkway, or landing, which is greater than 10 mm distant from a permanent structure and where an object could fall more than 2000 mm. A toe board shall be provided at the edge of a structure that is further than 10mm from a permanent structure and where an object could fall more than 2000mm, and shall be attached to the floor or posts.
- > Where persons may frequently be required to work underneath a platform, the floor of such a platform shall be provided with protection, so as to prevent objects falling through it to the area below. This shall take the form of chequer plate for outdoor use or timber for indoor use.

## Independent certification

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

## Testing

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

## Manufacture

- > Manufactured by an independently audited ISO 9001 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 Australian Standards safety requirements.

## Installation

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

## Management Systems

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

## Environmental accreditation

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

## Traceability

- > Provide full traceability 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

- > Tag/label each cooling tower platform 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.

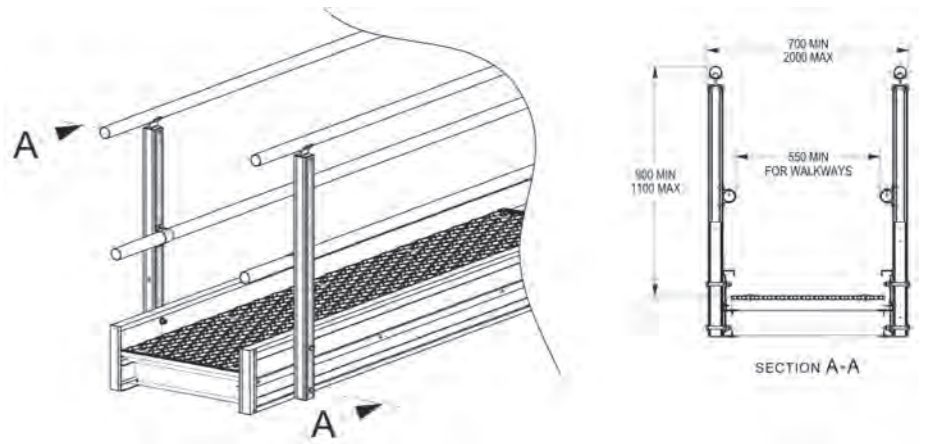


Figure 3.

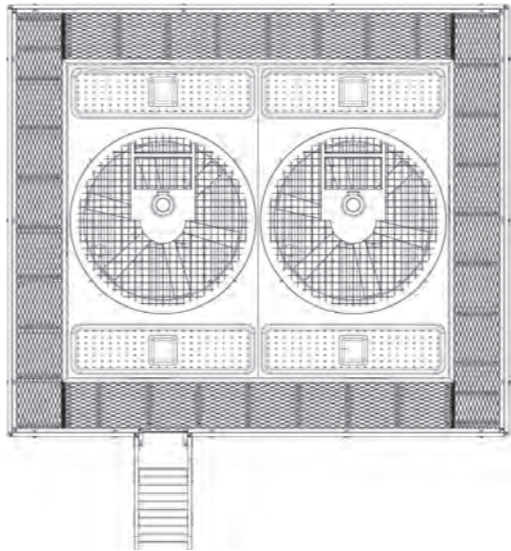
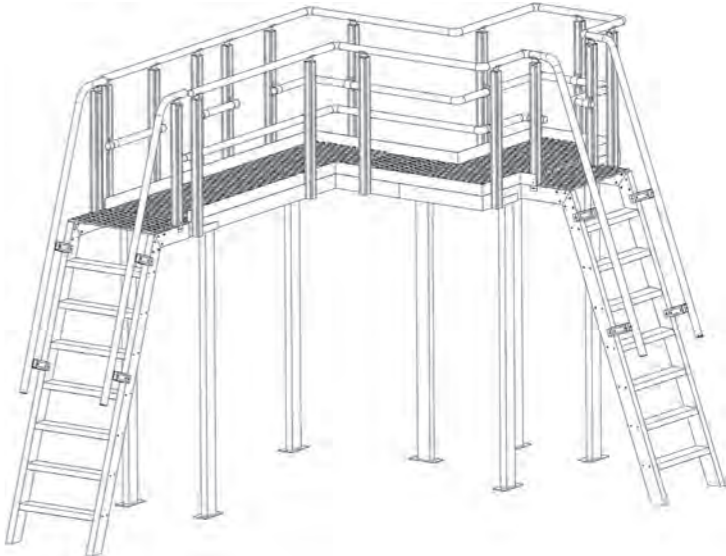


Figure 4.



Recommended designer, manufacturer, installer and certifier:

**workplace access&safety®**

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

**DEFENDER™**

© Copyright Workplace Access & Safety Pty Ltd. This material is subject to copyright and is provided to you subject to the strict condition that it must not be reproduced or communicated to the public in whole or substantial part without the prior written permission of the copyright owner. If and when such permission is granted, this material may only be reproduced in its entirety, without deletions, omissions, amendments or variations, unless express written permission otherwise has been granted by the copyright owner.

TITLE: DEFENDER™ – COOLING TOWER PLATFORM

DWG. No. 090-000.001

SHEET 1 OF 1 SCALE: 1:30

SIZE A3