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PURPOSE

Pull down ladder for access to ceiling/roof spaces and plant/equipment areas in buildings.

TECHNICAL ASSESSMENT 307

July 2003 1, 2

Am-Boss Access Ladder

- 1. July 2006. Revalidated
- 2. March 2009. Revalidated and valid till 31 December 2009.

APPLICANT

Am-Boss Access Ladders Pty Ltd (ACN 007 214 959), 11-13 Maida Avenue, North Sunshine, VIC 3020 (Manufacturer).



TECHNICAL OPINION

In the opinion of CSIRO Appraisals, the Am-Boss Access Ladder is suitable for providing access to ceiling/roof spaces and plant/equipment areas in buildings provided that:

 The ladder is manufactured in compliance with the specifications provided by Am-Boss Access Ladders Pty Ltd and installed in accordance with the installation instructions (10th August 1990).

Note: This is available from Am-Boss Access Ladders Pty Ltd, 11-13 Maida Avenue, North Sunshine, VIC 3020, (Phone 03 9310 8788).

 The cutting of building elements, to form the opening in the ceiling, is to be in accordance with the relevant Australian Standards, building legislation requirements and the relevant Am-Boss Access Ladder installation details.

BUILDING CODE of AUSTRALIA

In the opinion of CSIRO Appraisals, the Am-Boss Access Ladder described in this Technical Assessment and installed under the conditions listed in this Technical Assessment will satisfy the Performance Requirements of clauses DP1 and DP2 (Volume 1 - Class 2 to Class 9 buildings) and P2.5.1 (Volume 2 – Class 1 and 10 buildings) of the Building Code of Australia (2008).

Notes:

- (i) The inclusion of this clause with reference to the BCA is aimed at assisting those involved in the building approval/permit process relate the Appraisal to the relevant regulations.
- (ii) Users of this Technical Assessment must review and determine the impact of any amendments made to the BCA including referenced documents after the date of publication of this Technical Assessment.

RELATED INFORMATION

VALIDITY OF THE ASSESSMENT

Condition:

This Technical Assessment applies only to the use of the Am-Boss Access Ladder as described herein.

Withdrawal:

This Technical Assessment will be withdrawn or amended if CSIRO Appraisals considers that a change in design or manufacturing quality renders the basis of appraisal invalid, or if reported field experience convinces CSIRO Appraisals of unsatisfactory quality or performance.

Term of Validity:

This Technical Assessment is valid until 31 December 2009. Technical Assessments may be amended during the term of validity. Users of this Technical Assessment must verify that it remains valid and is the current version by checking on the CSIRO Appraisals website:

http://www.cmmt.csiro.au/services/appraisals/ or by calling CSIRO Enquiries on 1300 363 400.

RELEVANT DOCUMENTS

Am-Boss Access Ladders Pty Ltd 'Main Specification' (5th April 2002)

Am-Boss Access Ladders Pty Ltd 'Guide to Installation' (10th August 1990)

Am-Boss Access Ladders Pty Ltd 'Maintenance Procedure' (12th October 2001)

Standards Australia, Australian Standard 1657:1992 – 'Fixed platforms, walkways, stairways and ladders - Design, construction and installation'

APPROVED ASSESSMENT EXTRACT

The Am-Boss Access Ladder as supplied by Am-Boss Access Ladders Pty Ltd (ACN 007 214 959), North Sunshine, Victoria is suitable for providing ladder access to ceiling/roof spaces and plant/equipment areas in buildings when the conditions listed in CSIRO Technical Assessment 307 are fulfilled

APPRAISAL

DESCRIPTION

This description is based on information supplied by the applicant.

General:

The Am-Boss Access Ladder is manufactured from welded aluminium and New Zealand pine and is a counter balanced pull-down three section folding access ladder. It is a complete unit fully assembled with concealed hinges, draft seal, counter balancing and metal architrave. The ladder is manufactured to be installed in ceilings/roof spaces where trusses are spaced at least 600 mm centres.

Installation:

General. Installation is in accordance with Am-Boss Access ladders Pty Ltd Guide to Installation (10th August 1990). These include details for preparation, installation and fitting.

Ceiling preparation. Easy access above and below the space for the ladder is essential. A hole of the appropriate dimensions is to be cut and boxed out to take the ladder unit.

Fixing: The ladder unit is pushed into the opening made in the ceiling and screw fixed to the boxed frame.

Maintenance:

The Am-boss Access Ladder has all moving parts prelubricated in the factory. If operation of the unit occurs more than 3-5 times a day then all moving parts are to be lubricated once every two months. The entire unit should be inspected and lubricated once every 12 months.

DESIGN INFORMATION

General:

Based on information from the applicant, the Am-Boss Access Ladder is designed for use in areas of low frequency use such as ceiling/roof spaces and plant/equipment areas in buildings.

Durability:

In the opinion of CSIRO Appraisals the life expectancy of the Am-Boss Access Ladder would be not less than the service life of the ceiling provided that it is installed in accordance with the requirements of this appraisal.

BASIS OF APPRAISAL

CSIRO Appraisals has assessed the following aspects in undertaking this appraisal:

- (a) the applicant's installation instructions.
- (b) the physical properties of the material.
- (c) the load capacity of the unit.

The following documents and inspections were used in carrying out the appraisal.

Manufacturer's Information:

 Am-Boss Access Ladders Pty Ltd (ACN 007 214 959),
 Maida Avenue, North Sunshine, VIC 3020 (Manufacturer):

Main Specification (Document PR5) (5th April 2002)

 Am-Boss Access Ladders Pty Ltd (ACN 007 214 959),
 Maida Avenue, North Sunshine, VIC 3020 (Manufacturer):

Guide to Installation (10th August 1990)

 Am-Boss Access Ladders Pty Ltd (ACN 007 214 959),
 Maida Avenue, North Sunshine, VIC 3020 (Manufacturer):

Maintenance Procedure (Document MA1) (12th October 2001)

 Am-Boss Access Ladders Pty Ltd (ACN 007 214 959),
 Maida Avenue, North Sunshine, VIC 3020 (Manufacturer):

Australian standards on Pull Down Access Ladders (Document AS3) (16th April 2002)

 Am-Boss Access Ladders Pty Ltd (ACN 007 214 959),
 Maida Avenue, North Sunshine, VIC 3020 (Manufacturer):

Document PR4 (12th December 2002)

Am-Boss Access Ladders Pty Ltd (ACN 007 214 959),
 Maida Avenue, North Sunshine, VIC 3020 (Manufacturer):

Document PR1 00 (12th December 2002)

 Am-Boss Access Ladders Pty Ltd (ACN 007 214 959),
 Maida Avenue, North Sunshine, VIC 3020 (Manufacturer):

Heavy Duty Version (Modifications if Required) (17th June 2002)

Am-Boss Access Ladders Pty Ltd (ACN 007 214 959),
 Maida Avenue, North Sunshine, VIC 3020 (Manufacturer):

Drawings -

- (i) AMBOSS-LAD/SPEC.DWG (Rev 0) (21st April 1995)
- (ii) AMBOSS-LAD/SPEC.DWG (Rev 1) (21st April 1995)
- (iii) Ladder (Attic Rung) (23rd March 1998).
- (iv) AM/AL AP01.DWG (Rev 0) (10th October 1995)
- (v) AM/AL AR01.DWG (Rev 0) (10th October 1995)
- (vi) AM/AL AR01 D1.DWG (Rev 0) (10th October 1995)
- (vii) $\begin{array}{l} \text{AM/AL} \text{AR01} \text{D2.DWG (Rev 0)} \\ \text{(10}^{\text{th}} \text{ October 1995)} \end{array}$
- (viii) AM/AL CH01.DWG (Rev 0) (10th October 1995)
- (ix) AM/AL FC01.DWG (Rev 0) (10th October 1995)
- (x) AM/AL -HR01.DWG (Rev 0) (10th October 1995)
- (xi) AM/AL HR01 D1.DWG (Rev 0) (10th October 1995)
- (xii) AM/AL HR01 D2.DWG (Rev 0) (10th October 1995)
- (xiii) AM/AL LA01.DWG (Rev 0) (10th October 1995)
- (xiv) AM/AL LA01 D1.DWG (Rev 0) (10th October 1995)
- (xv) AM/AL LA01 D2.DWG (Rev 0) (10th October 1995)
- (xvi) AM/AL LA01 D3.DWG (Rev 0) (10th October 1995)
- (xvii) AM/AL LA01 D4.DWG (Rev 0) (10th October 1995)
- (xviii) AM/AL LA01 D5.DWG (Rev 0)(10^{th} October 1995)

(xix)	AM/AL - LA01 - D6.DWG (Rev 0)
` '	(10 th October 1995)

- (xx) AM/AL LF01.DWG (Rev 0) (10th October 1995)
- (xxi) AM/AL LF01 D1.DWG (Rev 0) (10th October 1995)
- (xxii) AM/AL LF01 D2.DWG (Rev 0) (10th October 1995)
- (xxiii) AM/AL LH01.DWG (Rev 0) (10th October 1995)
- (xxiv) AM/AL LH01 D1.DWG (Rev 0) (10th October 1995)
- (xxv) AM/AL LH01 D2.DWG (Rev 0) (10th October 1995)
- (xxvi) AM/AL LK01.DWG (Rev 0) (10th October 1995)
- (xxvii) AM/AL LK01 D1.DWG (Rev 0) (10th October 1995)
- (xxviii) AM/AL LK01 D2.DWG (Rev 0) (10th October 1995)
- (xxix) AM/AL LL01.DWG (Rev 0) (10th October 1995)
- (xxx) AM/AL LL01 D1.DWG (Rev 0) (10th October 1995)
- (xxxi) AM/AL LL01 D2.DWG (Rev 0) (10th October 1995)
- (xxxii) AM/AL LL01 D3.DWG (Rev 0) (10th October 1995)
- (xxxiii) AM/AL LL01 D4.DWG (Rev 0) (10th October 1995)
- (xxxiv) AM/AL LR01.DWG (Rev 0) (10th October 1995)
- (xxxv) AM/AL LS01.DWG (Rev 0) (10th October 1995)
- (xxxvi) AM/AL MB01.DWG (Rev 0) (10th October 1995)
- (xxxvii) AM/AL PH01.DWG (Rev 0) (10th October 1995)
- (xxxviii) AM/AL PL01.DWG (Rev 0) (10th October 1995)
- (xxxix) AM/AL PL01 -D1.DWG (Rev 0) (10th October 1995)
- (xI) AM/AL PL01 –D2.DWG (Rev 0) (10th October 1995)

- (xli) AM/AL PS01.DWG (Rev 0) (10th October 1995)
- (xlii) AM/AL RF01.DWG (Rev 0) (10th October 1995)
- (xliii) AM/AL SG01.DWG (Rev 0) (10th October 1995)
- (xliv) AM/AL SL01 D1.DWG (Rev 0) (10th October 1995)
- (xlv) AM/AL SL01 D2.DWG (Rev 0) (10th October 1995)
- (xlvi) AM/AL SP01.DWG (Rev 0) (10th October 1995)
- (xlvii) AM/AL TL01.DWG (Rev 0) (10th October 1995)
- (xlviii) AM/AL TL01 D1.DWG (Rev 0) (10th October 1995)
- (xlix) AM/AL TL01 D2.DWG (Rev 0) (10th October 1995)

Test Reports:

 METLABS 294 Arden St, North Melbourne, Correlation/Report No. 960707/1 (7th August 1996): This report provides results of load testing the Am-Boss Access Ladder. The results show that it has a maximum load rating of 150 kg.

Inspections:

CSIRO Appraisals have inspected an installation of the system and found it to be satisfactory. In CSIRO's opinion the system is capable of being installed in accordance with the specifications contained in Am-Boss Access Ladders Pty Ltd 'Guide to Installation' (10th August 1990).

Ken Lofhelm

General Manager: CSIRO Appraisals





CSIRO Appraisals is a project of CSIRO Materials Science & Engineering.

From 1978, under the auspices of the Australian Building Systems Appraisal Council (ABSAC), CSIRO ran an appraisal service in conjunction with the Australian Institute of Building Surveyors, the Housing Industry Association, the Insurance Council of Australia and the Master Builders Association. In 1999, CSIRO Appraisals was formed to continue the business of ABSAC under the sole patronage of CSIRO.

Technical Assessments are intended to help all those concerned with the approval, specification and use of new products or systems. They are assessments of the product, system or material but are not approvals or endorsements. They may be submitted to approval authorities as part of the justification process required to obtain approval.

Each Technical Assessment has been prepared by CSIRO Appraisals and then reviewed by the Technical Advisory Committee (TAC), detailed below.

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This Technical Assessment has been given a term of validity until 31 December 2009. Users of this Technical Assessment must review and determine the impact of any amendments to the BCA including referenced documents after the date of publication of this Technical Assessment. Users of this Technical Assessment must verify that it remains valid and is the current version by checking on the CSIRO Appraisals website or by contacting CSIRO Enquiries on: http://www.cmmt.csiro.au/services/appraisals/.

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12. SUPPLEMENTARY NOTES H	I. RELATED DOCUMENTS
	. OTHER/OPTIONAL
access ladder; ceiling; commercial; CSIRO Appraisals; plantroom; residential	NFORMATION

suitable for providing ladder access to c Technical Assessment 307 are fulfilled.