

52ST400



PNG POWER LTD

MATERIAL SPECIFICATION

VOCAB. NUMBER.	ITEM DESCRIPTION:
142036	LADDER, TIMBER EXTENSION - 9.0 METERS c/w; HARD GRIP LADDER SHOES Code no. FS22532.

Item Category = A

SPECIFICATION DETAILS.

- 1. General Requirements:** The timber ladder shall be a non-self supporting portable ladder, adjustable in length c/w; Hard Grip ladder shoes affixed as a complete product.
- 2. Scope:** Refer SPECIFICATION FOR TIMBER EXTENSION LADDERS and LADDER SHOES — three (3) pages including two (2) drawings attached
- 3. Quality Standard References:**
 - AS 1892.2 — 1992 "Portable Ladders Timbers"
 - AS 1504 — 1983 "Fiber Rope—Three strand, Hawser Laid"
 - Drawing no. SOB 215 "Ladder Shoes" as in clause 5 of this specification.
- 4. Unit of Measure:** Each

DRAWING REFERENCES: SOB 168 & SOB 215.

Manufacturers Product code:

STANDARDS COMMITTEE APPROVAL

APPROVED BY: (Name) Alex OA SIGNATURE: [Signature] DATE: 4 / 6 / 2015
 Chairman

DATA REVIEW APPROVAL

NAME	SIGNATURE	TITLE	DATE
John Mandali	<u>[Signature]</u>	Manager OHS	03/06/15
G. PENI	<u>[Signature]</u>	TL STANDARDS	25/2/19



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SPECIFICATION FOR TIMBER EXTENSION LADDERS

VOCAB; 142035—6.6M, 142036—9.0M & 142037—11.2M

SPECIFICATION DETAILS

1.0 SCOPE:

This specification covers the manufacture, supply and delivery of timber extension ladders with extended nominal length of 6.6m, 9.0m, and 11.2m to the nominated PNG Power Stores.

2.0 APPLICATION:

The timber extension ladders are intended for use by personnel employed within the Electricity industry for ascending and descending to and from electrical equipment and areas which are removed from the safe reach of persons at ground level.

3.0 STANDARDS:

Reference is made to the following standards.

- AS 1892.2—1992 " Portable Ladders Timber."
- AS 1504—1983 " Fiber Rope—Three Strand, Hawser Laid."

4.0 DESIGN: - LADDERS

4.1 GENERAL.

The timber extension ladders shall be a non-self supporting portable ladder, adjustable in length. They shall consist of two sections with guides or brackets arranged so as to permit length adjustment. The stated sizes are designated in terms of the overall extended length of the ladder measured along the front edge of the stiles. All timber extension ladders shall be of "Industrial" quality. The design and construction shall comply with section 4 " Extension Ladders" of AS 1892.2—1992 and this specification where modified.

4.2 REINFORCEMENT

The timber extension ladders shall be supplied with an extruded glass fiber rod running longitudinally along the tension face of each stile and shall comply with paragraph 4.7.1 to 4.7.4 of AS 1892.2—1992.

4.3 OVERLAP.

An effective stop shall be provided on each timber extension ladder to ensure that the overlap cannot be less than the minimum specified in table 4.1 of AS 1892.2—1992.



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SPECIFICATION DETAILS.

4.4 HEAD SECTION OR BUCKET ASSEMBLY.

Ahead section or bucket assembly shall be fitted on the extension length of each timber extension ladder and shall be manufactured in accordance with drawing SOB 168. Forming part of the head section shall be a 10mm dia. Manila rope, 2000mm in length for lashing in position the timber extension ladder to the means of support. Item 6 on drawing SOB 168 illustrates the requirement.

4.5 ROPES.

All ropes used on the timber extension ladders shall be manufactured from 10mm dia. three strand hawser laid natural fiber manila rope complying with AS 1504.

4.6 LENGTH.

The nominal length of 6.6m, 9.0m or 11.2m shall be nominated at the time of ordering.

5.0 **LADDER SHOES:**

Supplied and fitted in accordance with Drawing no. SOB.215 using Hard grip contact pads, non slip black neoprene sole. The shoes shall be of Hard Grip Ladder Shoes code no. FS22532 or equivalent to Protector brand Ladder Feet model MFL 14.

6.0 **GRADING: - TIMBER EXTENSION LADDERS.**

Visual inspection grading shall be acceptable and shall be carried out in accordance with paragraph 2.3.3. of AS 1892.2—1992.

7.0 **MARKING:**

All timber extension ladders shall have the following information legibly and indelibly marked on the outer face of the stiles.

- (1) The name of the manufacturer.
- (2) The closed and extended length.
- (3) The letter "V" to denote that the stiles have been visually graded.
- (4) The duty rating "Industrial"
- (5) The word "PNG POWER LTD" in 10mm thick blue lettering at the base of the fixed length.
- (6) The ladder shall be painted Blue and White - PPL colour for identification purposes.

8.0 **PACKING:**

The timber extension ladders shall be packed to avoid chafing and if necessary shall be separated by buffering material.



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SPECIFICATION DETAILS

9.0 DEPARTURES:

Details of any departures from AS 1892.2—1992 and this specification shall be supplied at the time of an offer is made; otherwise all timber extension ladders delivered shall be inspected to ensure conformity with AS 1992.2—1992 and this specification.

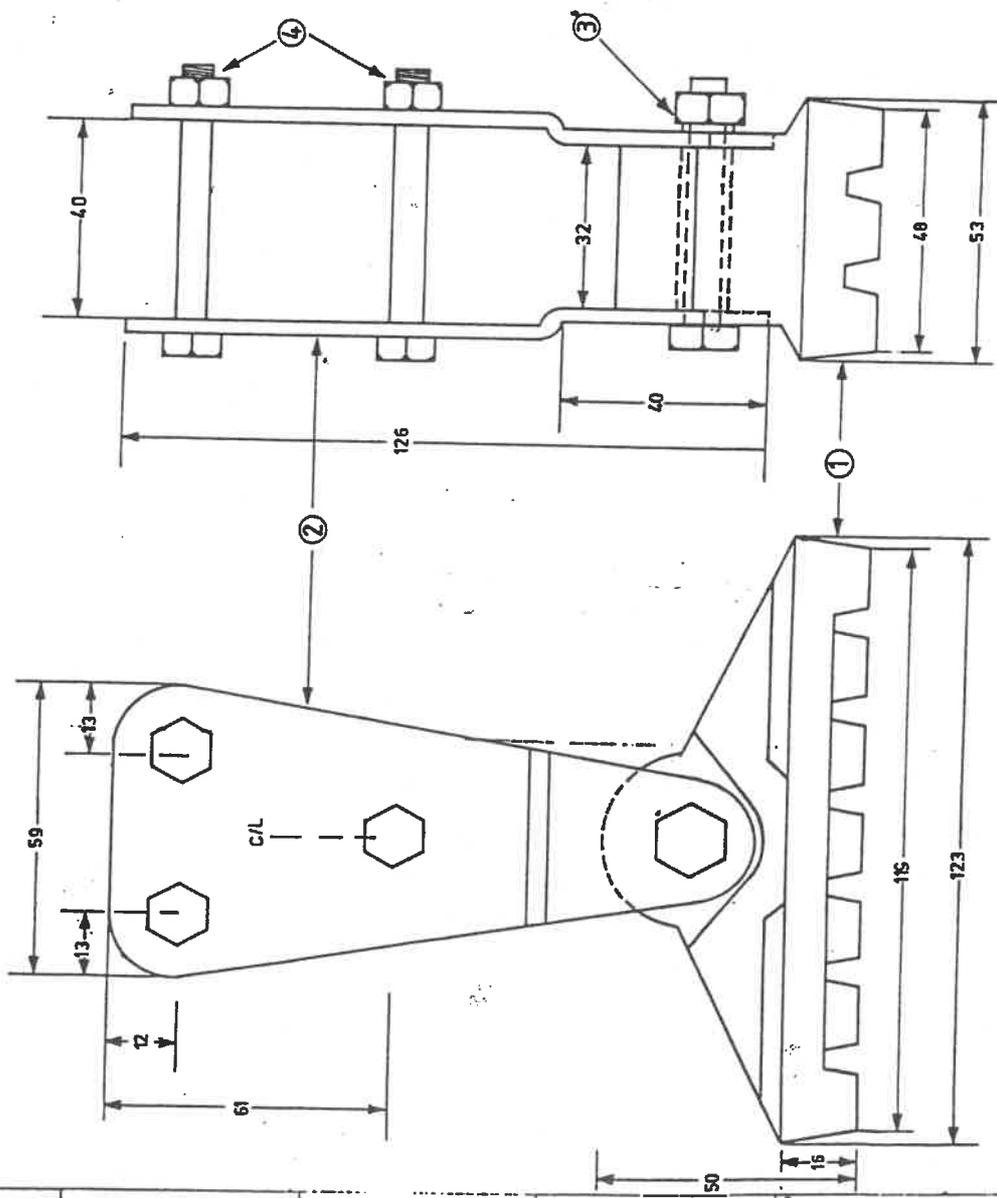
10.0 INFORMATION TO BE SUPPLIED WITH TENDER:

Tenderers shall submit with their quotation the following;

- 9.1 The species of timber offered for the manufacturer of stiles and rungs.
- 9.2 The closed and extended lengths.
- 9.3 The finished width.
- 9.4 The marking shall comply with clause 6.0 of this specification.
- 9.5 If the manufacturer is licensed to use the S.A.A. certification mark.
- 9.6 Any departures from AS 1892.2—1992 and this specification.
- 9.7 The name of the manufacturer brand name and place of manufacture of the timber extension ladders offered.
- 9.8 The Ladder Shoes and the brand.

11.0 ACCEPTANCE:

- (a) Before acceptance into PNG Power Stores the timber extension ladders shall be inspected by a responsible PNG Power staff to ensure compliance with this specification and any agreed departures in clause 8.0
 PNG Power Ltd, reserves all rights to reject whole or part of the order not complying with this Specification and is not liable for any cost or loss with the return of rejects to the Supplier. Facilitation of invoice credit must commence between the supplier and PNG Power Ltd through the process of PNG Power Ltd Discrepancy Report provisions.
- (b) Any timber extension ladder not complying with this specification and agreed departures shall be returned to the contractor for rectification or replacement at no cost to PG Power Ltd



ITEM	QUANTITY FOR ONE PAIR	DESCRIPTION
1	2	SOLE, NON SLIP BLACK NEOPRENE C/W 21 CONTACT GRIP PADS
2	4	SIDE PLATE, 2.6mm MILD STEEL COATED BLACK AND DRILLED
3	2	TUBES, PIVOT ALUMINIUM 33.5mm x 12mm OUTSIDE DIAMETER x 10mm INSIDE DIAMETER C/W PLATED BOLT m6 x 50mm SPRING WASHER AND NUT
4	6	BOLT SECUF V8, PLATED m6 x 50mm C/W WASHER AND NUT

ALL MEASUREMENTS IN MILLIMETRES



Drawn	W. A. LAUST.	Draftsman
Checked	<i>[Signature]</i>	Sup. D'man
Checked	<i>[Signature]</i>	Proj. Eng.
Checked	<i>[Signature]</i>	Chief D'man
Rec. by	<i>[Signature]</i>	Design Eng.
App. for Iss.	<i>[Signature]</i>	Princ. Eng.
Date	24TH MAY, 1988	

LADDER SHOES, HARD GRIP
 1 PAIR PER CARTON
 VOCAB 181091
 A3 Drawing Number
 SOB 215 Revision

1:5
 1:5