

Pilot Ladder

(MED/SOLAS Approved)

Model: DMSE-PL

Lengths Available from 2m to 22m

Please Choose Bottom Structure Upon Order Confirmation



(1) Open End Type



(2) Closed End Type

Note: If none is chosen, we will proceed with option 2 (Closed End) which is more common.

Technical Specifications

Please refer to Technical Drawings for pilot ladder's specifications.

Certifications

- **Approval:** DNV, RINA certificates
- **Testing Standards:** IMO Res.A.1045(27), as amended; ISO 799-1:2019
- **Reference Standards:** Reg. V/23 and Reg. X/3 of SOLAS 74 Convention as amended; IMO Res.A.1045(27), IMO MSC/Circ.1428



Manufacturer



Dongtai Martian Ship Equipment Co., Ltd.



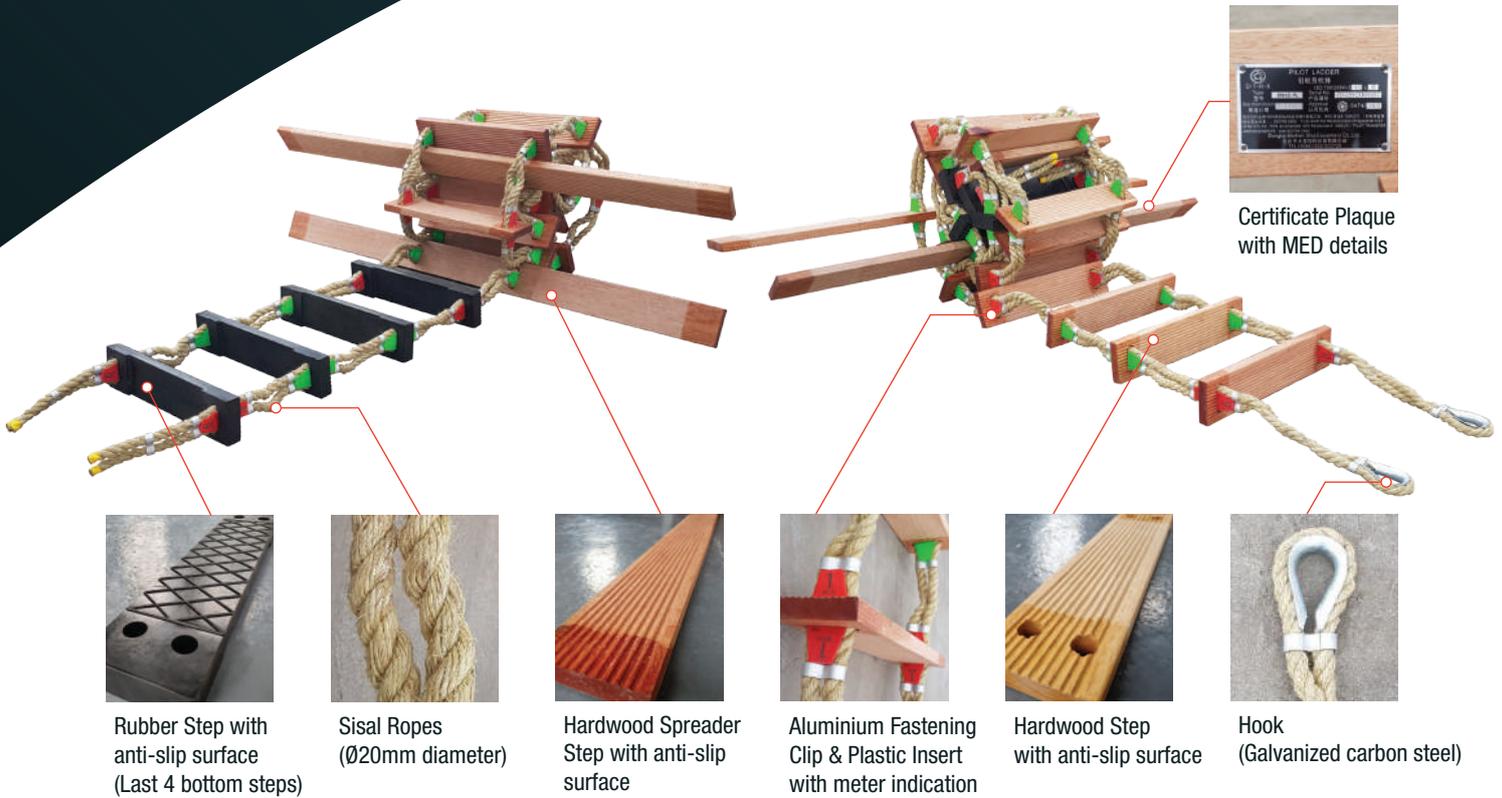
MARINE SAFETY ESSENTIALS

We Offer On-Board Firefighting And Marine Safety Essentials

Disclaimer: Accuracy of all technical data and information are provided to the best knowledge of the manufacturer. Properties, specifications and application parameters are subject to change without notice. The manufacturer does not undertake any liability of any kind whatsoever.

Mars Safety International Pte Ltd is the Singapore Overseas Branch of Dongtai Martian Ship Equipment Co., Ltd.

No.1 Tuas Link 1, Singapore 638583 Tel.: +65 6862 1212 Fax: +65 6897 9959 For Orders, please send enquiry to Sales@mars-safety.com



Certificate Plaque with MED details



Rubber Step with anti-slip surface (Last 4 bottom steps)



Sisal Ropes (Ø20mm diameter)



Hardwood Spreader Step with anti-slip surface



Aluminium Fastening Clip & Plastic Insert with meter indication



Hardwood Step with anti-slip surface



Hook (Galvanized carbon steel)



We Can Fabricate Lengths from 2m to 22m
Please Send Enquiry To Sales@mars-safety.com

Order your custom-length pilot ladder today and elevate your safety standards! For additional customization, consult with our experts; we tailor to your specifications.

Product Features

- MED/SOLAS approved, met the required standards (ISO 799-1:2019).
- Used every day by maritime pilots around the world to board and disembark ships.
- Steps have non-skid surfaces, secured with sea water resistant aluminium clamps.
- Ropes are not painted, coated or covered, thimbles will be provided.
- Ropes are spliced to top on the ladder.
- All steps are made from hardwood, only bottom 4 steps are made from rubber.

Add-On Accessories/Spare Parts (Separate Order)



Holding Magnet
Model: HX-300



Hardwood Replacement Steps



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Pilot Ladder

Drawing No.: DMSE-PL20180831

Weight:

Proportion:
1:50

Product Model: DMSE-PL

Version No.: B

Page 1 of 1

The production requirements of the ladders are implemented according to the standards:

- 1) Regulation 23, Chapter V of SOLAS 1974, as amended.
- 2) ISO 799-1:2019 Ship and marine technology - Pilot ladders - Part 1: Design and specification
- 3) IMO.A. 1045(27) Pilot transfer arrangements.
- 4) CB/T3142-94 Pilot ladder.

Ladder's Parts

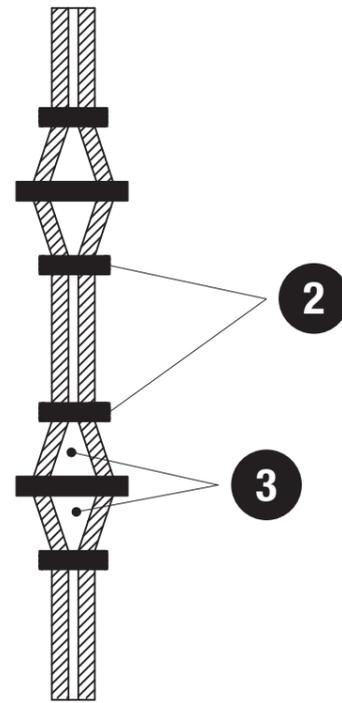
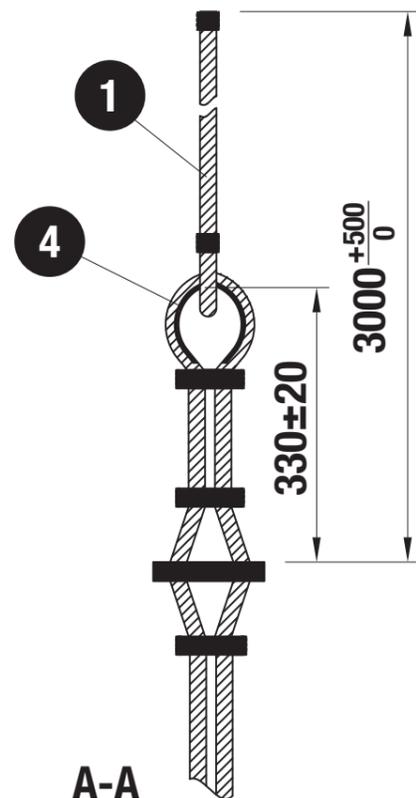
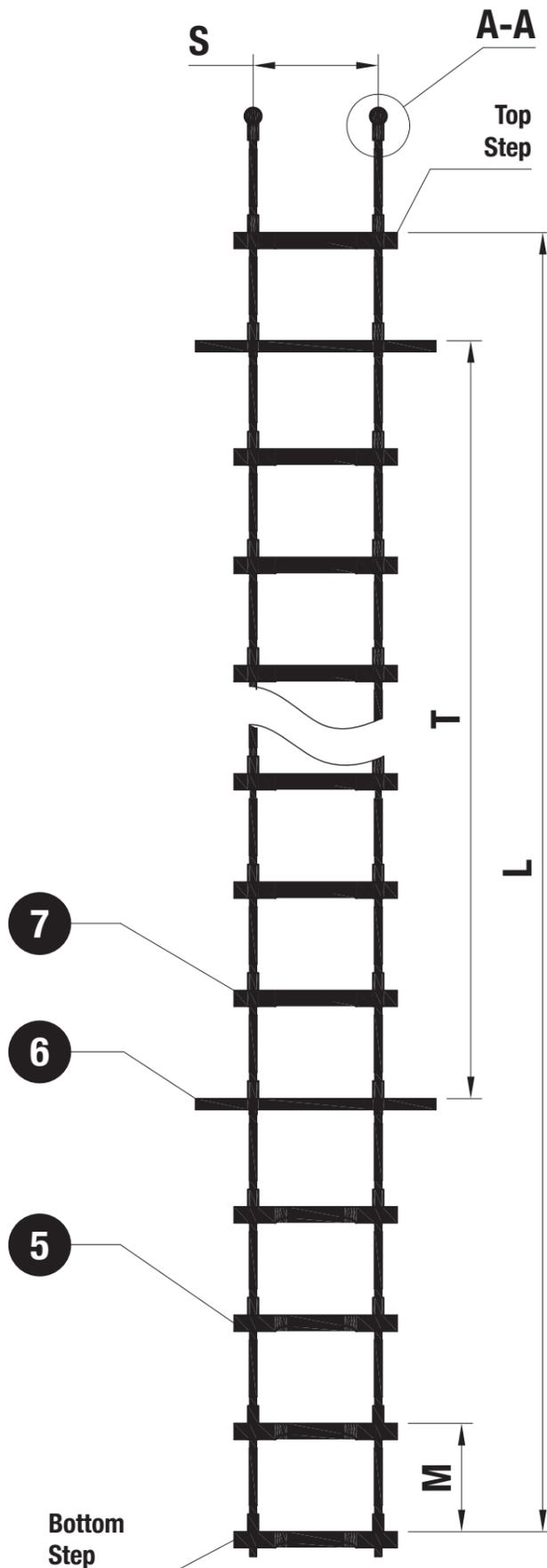
Part No.	Name	Size(mm)	Material
1	Rope	Ø20	Sisal Rope
2	Aluminium Fastening Clip	54 X 48 X 3	Aluminium
3	Plastic Insert	30 X 53 X 47	Polypropylene
4	Hook	116 X 73	Galvanized Carbon Steel
5	Rubber Step	525 X 115 X 40	Rubber
6	Spreader Step	1800 X 115 X 28	Wood
7	Wooden Step	525 X 115 X 28	Wood

Number Of Steps On Ladder/Positions Of Spreader Steps

Ladder Length(m)	No.Of Steps	Positions Of Spreader Steps	Ladder Length(m)	No.Of Steps	Positions Of Spreader Steps
2	7	5	13	40	5, 14, 23, 32
3	10	5	14	43	5, 14, 23, 32, 41
4	13	5	15	46	5, 14, 23, 32, 41
5	16	5, 14	16	49	5, 14, 23, 32, 41
6	19	5, 14	17	52	5, 14, 23, 32, 41, 50
7	22	5, 14	18	55	5, 14, 23, 32, 41, 50
8	25	5, 14, 23	19	58	5, 14, 23, 32, 41, 50
9	28	5, 14, 23	20	61	5, 14, 23, 32, 41, 59
10	31	5, 14, 23	21	64	5, 14, 23, 32, 41, 59
11	34	5, 14, 23, 32	22	67	5, 14, 23, 32, 41, 59
12	37	5, 14, 23, 32			

Notes:

- 1) The lowest four steps of the ladder are made of rubber, while the remaining steps are constructed from wood.
- 2) Along the length of the ladder, beginning from the bottom, a red plastic insert is placed at every 1-meter interval, with green plastic inserts used in the remaining positions to secure the ladder rigging at the desired height.
- 3) The breaking force of the side rope shall not be less than 28kN.



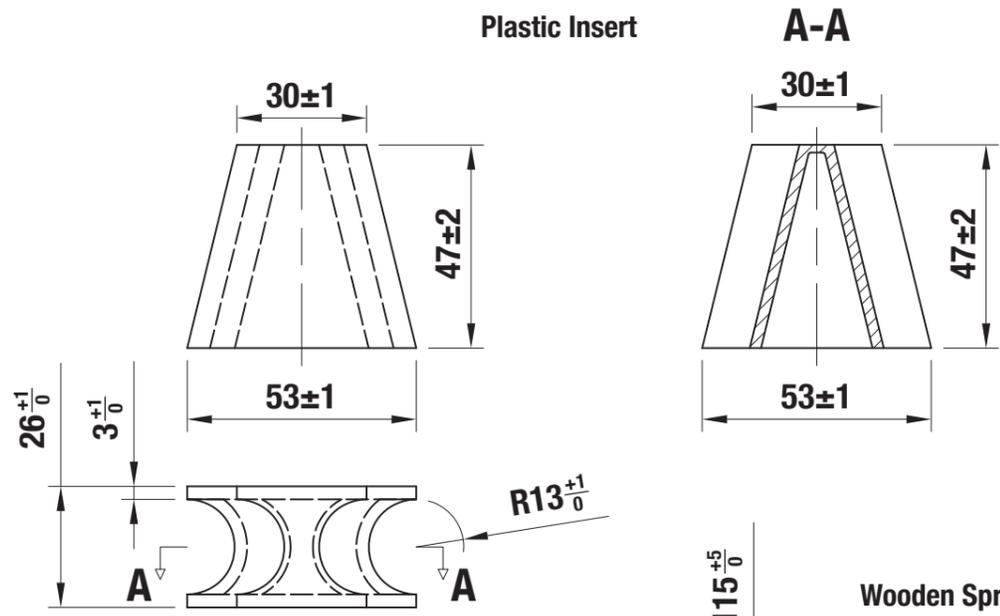
A-A
Ladder top auxiliary cable

Aluminium fastening clip and Plastic inserts

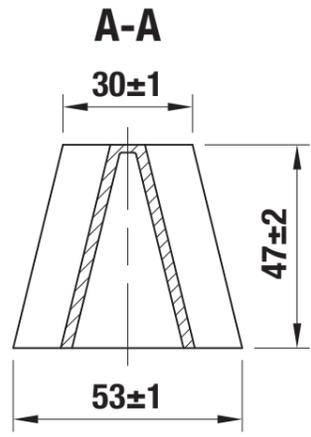
Ladder's Dimensions

Code	Description	Numerical Value
S	Center distance between ropes on both sides	425mm
T	Number of steps between two spreader steps	<9
M	Distance between each adjacent steps	330±20mm
L	Actual length of the ladder	See ladder specification sheet

Plastic Insert



A-A



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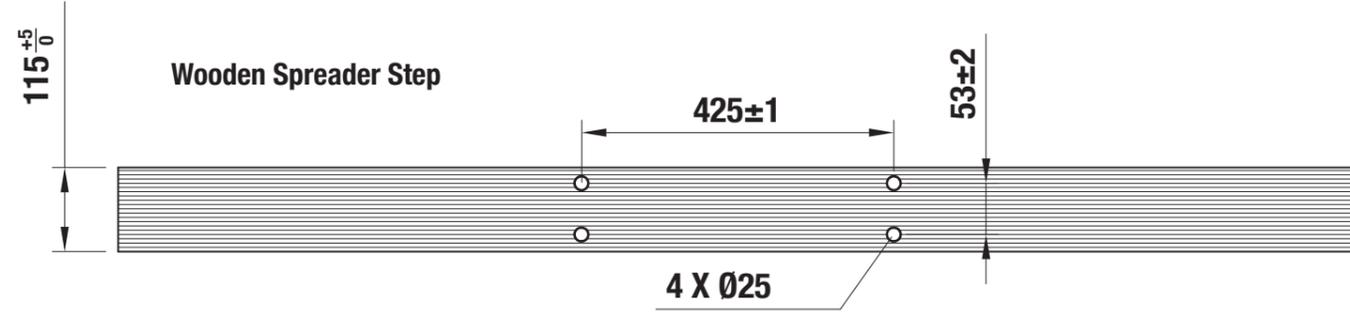
**Pilot Ladder
(Parts)**

Drawing No.: DMSE-PL2018083101	Weight:	Proportion:
Product Model: DMSE-PL		1:50
Version No.: B	Page 1 of 1	

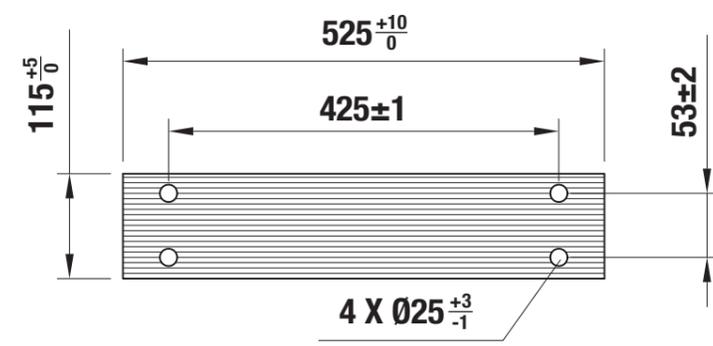
Technical Requirements:

- 1) The size and tolerance of the product should meet the requirements of the drawings.
- 2) The product's surface is free from defects like burrs or cracks that could impact its functional properties.
- 3) The surface of the hook should be treated with hot dip galvanizing, and all parts of the surface should be covered.
- 4) The upper surface of the pedal should be embossed or textured to prevent slipping.
- 5) The corners of the product should be polished.

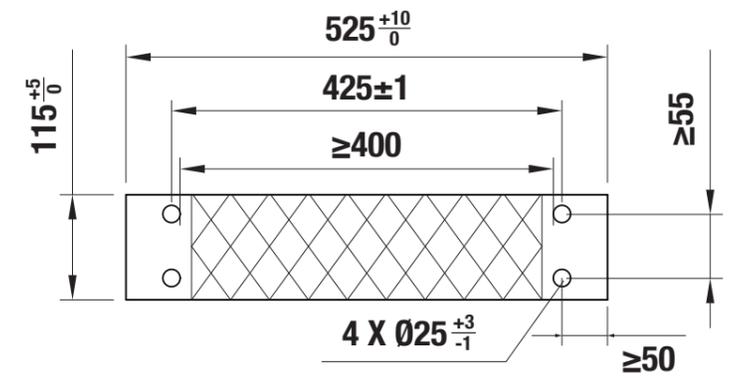
Wooden Spreader Step



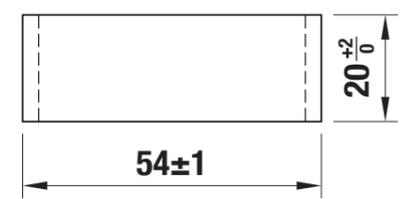
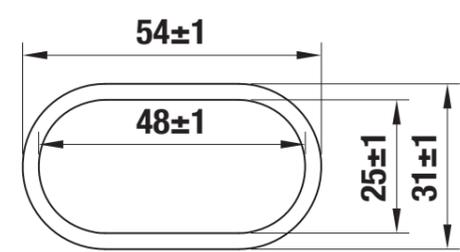
Wooden Step



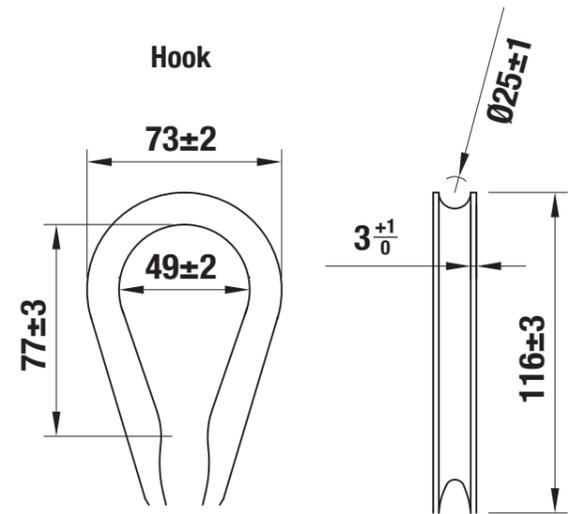
Rubber Step



Aluminium Fastening Clip



Hook



Unit Of Measurement: MM



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Pilot Ladder (Part-Plastic Insert)	Drawing No.: DMSE-PL2018083102	Weight:	Proportion: 1:50
	Product Model: DMSE-PL		
	Version No.: B	Page 1 of 1	

Technical Requirements:

- 1) The size and tolerance of the product should meet the requirements of the drawings.
- 2) The product's surface is free from defects like burrs or cracks that could impact its functional properties.
- 3) The surface of the hook should be treated with hot dip galvanizing, and all parts of the surface should be covered.
- 4) The upper surface of the pedal should be embossed or textured to prevent slipping.
- 5) The corners of the product should be polished.

Plastic Insert (With Meters Indication)

