

ELECTRO PLASTICS

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Tier: 2 - PDA Issued

Product: Heating, Under Deck Heating System

Model: MEP-30-XXW, MEP-23-XXW, MEP-15-XXW, MEP-7-XXW

Intended Service:

Marine & Offshore Application - Icing Prevention and Floor Warming System used for Shipdeck, Bulkhead & Hull in Steel, Aluminum and Sandwich Constructions on Tugs, FRVs, Pilot Vessels, Ferries, Yachts and Cruise Ships.

Description:

Step Marine Icing Prevention & Floor Warming System is a Under-Floor Heating System comprised of a Radiant Heating Panel set System, for indoor or outdoor use. It is intended to be mounted on top of a base, and then covered with an overlay of concrete or poured masonry or covered with a finished floor e.g., tile, wood, laminate or carpet. The flexible heater sheets formed of electrically conductive polyethylene. The system consists of (i) Self-regulating heating element operating on low voltage (less than 30 volts); (ii) Terminal board and (iii) Low-voltage transformer 120V, 240V, 277V AC/24 VAC, NEMA 3R.

Rating:

Supply Voltage: 24 VAC or DC
Max Exposure Temperature: 176°F (80°C)

Hazardous Locations for Models MEP-30-70W, MEP-30-36W, MEP-23-80W, MEP-23-36W, MEP-15-30W & MEP-7-30W:

Class I, Division 2, Group B, C, D, T5

Service Restriction:

Unit Certification is not required for this product. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.

Do not use with Aggressive Construction Glues and Adhesives or with Asphalt or Butyl Sealants/Membranes. Consult with manufacturer or their catalog for instructions.

Comments:

The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product. To be installed in accordance with Manufacturer's Instructions.

Notes/Drawing/Documentation:

Supporting Documents:

Intertek Report No. 102228591DAL-001, Issued 03 August 2015
Intertek Report No. 3115295ATL-001, Issued 09 March 2007 & Revised 28 June 2015
Intertek Test Report No. 100661046ATL-001C, Issued 10 March 2012
TUV Rheinland Test Report No. 2821548001, Dated 29 August 2012
QAS International IS) 9001: 2008 Registration Certificate A1879US, Current Certificate dated 16 September 2015
STEP Marine Deicing Installation Manual, December 2015
STEP Marine Warmfloor Installation Manual, February 2014
STEP Marine Heat Trace Installation Manual, September 2015
Step Marine MEP-xx-xxW-24V Self -Regulating Heating Element Data Sheet

Terms of Validity:

This Product Design Assessment (PDA) Certificate 16-HS1533649-PDA, dated 07/Jul/2016 remains valid until 06/Jul/2021 or until the Rules or specifications used in the assessment are revised (whichever occurs first).

This PDA is intended for a product to be installed on an ABS classed vessel, MODU or facility which is in existence or under contract for construction on the date of the ABS Rules or specifications used to evaluate the Product.

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Use of the Product on an ABS classed vessel, MODU or facility which is contracted after the validity date of the ABS Rules and specifications used to evaluate the Product, will require re-evaluation of the PDA.

Use of the Product for non ABS classed vessels, MODUs or facilities is to be to an agreement between the manufacturer and intended client.

STANDARDS

ABS Rules:

Rules for Conditions of Classification, Part 1 2016 Steel Vessels Rules 1-1-4/7.7, 1-1-A3, 1-1-A4, which covers the following:

2016 Steel Vessel Rules 4-8-2/7.19 & 4-8-2/9.1, 4-8-3/1.7, 4-8-3/13, 4-8-4/27

2016 Steel Vessels Under 90 Meters (295 feet) in Length: 4-6-1/11, 4-6-3/11

2016 Offshore Support Vessels (OSV Rules) 4-8-2/7.19 & 4-8-2/9.1, 4-8-3/1.7, 4-8-3/13, 4-8-4/27

Rules for Conditions of Classification, Part 1 – 2016 Offshore Units and Structures 1-1-4/9.7, 1-1-A2, 1-1-A3, which covers the following:

2016 Mobile Offshore Drilling Units 4-3-1/11, 4-3-3/9

National:

UL1693,2nd Ed 19 July 2002 & Revisions through 14 October 2011

ANSI/UL 823, 9th Ed 31 January 2012

International:

CAN/CSA-C22.2 No. 217;

EN 60335-2-96: 2002 + A1: 2004+A2: 2009

EN 30335-1: 2002 +A1:2004 +A11:2004 +A12: 2006 + A13: 2008

EN 62233:2008

IEC 62233:2005,

Government:

NA

EUMED:

NA

OTHERS:

NA