



CERTIFICATE NUMBER
16-LD1499462-PDA

DATE
17 Mar 2016

ABS TECHNICAL OFFICE
London Engineering Department

CERTIFICATE OF DESIGN ASSESSMENT

This is to certify that a representative of this Bureau did, at the request of
CMP PRODUCTS LTD.

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

Product: **Cable, Glands and Accessories**

Model: **Cyclone II; Cyclone III; Sapphire; Conqueror; Sovereign; Patriot, Sabre, Falcon, Valiant and Zenith.**

This Product Design Assessment (PDA) Certificate 16-LD1499462-PDA, dated 17/Mar/2016 remains valid until 16/Mar/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.

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.

AMERICAN BUREAU OF SHIPPING

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by the terms and conditions as contained in ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010).

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Tier: 3 - Type Approved, unit certification not required

TC

Product: Cable, Glands and Accessories**Model:** Cyclone II; Cyclone III; Sapphire; Conqueror; Sovereign; Patriot, Sabre, Falcon, Valiant and Zenith.**Intended Service:**

ABS Classed Vessels and Offshore Installations in accordance with the listed ABS Rules and International Standards.

Description:

Cable cleats for ensuring the security, retention and support of cables.

Cyclone II (SDSTR 2 Loop cleat).

Cyclone III (HDSTR 3 Loop Cleat)

Conqueror (RTSS Cleat)

Sapphire (SDHSS Cleat)

Sovereign (HDSS Cleat)

Patriot (SDSS Cleat)

Falcon (2BC Plastic cleat)

Sabre (1BC Plastic cleat)

Valiant (1BCAL cleat)

Zenith (2BCAL cleat)

Rating:

-Cyclone II & Cyclone III; Conqueror; Sapphire; Sovereign; Patriot : 316L Stainless Steel & LSF Liners, operating temperature -50 C to +60 C degrees

-Sabre/Falcon: Nylon, V0 Nylon & LUL approved polymer, operating temperature -50 C to +60 C degrees.

-Valiant/Zenith: High pressure die cast aluminium, operating temperature -60 C to +150 C degrees.

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.

Product is not to be used on hazardous areas.

Comments:

The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.

Notes/Drawing/Documentation:

Drawing No. 2147982.100, Resistance to electromechanical force (short circuit test) of cable cleats for RTAL/SDSS/SDSTR/HDSTR, Revision: 01, Pages: 56

Drawing No. 2154889.100, Resistance to electromechanical force (short circuit test) of cable cleats for SDSS, SDSTR, HDSTR, Revision: 01, Pages: 69

Drawing No. 2156529.01-INC, resistance to electromechanical force (short-circuit test) of cable cleats for HDSS/RTSS/RTAL/SDSS-A, Revision: -, Pages: 68

Drawing No. 2159449.100, Resistance to electromechanical force (short circuit test) of cable cleats for SDSTR, Revision: 01, Pages: 22

Drawing No. 2160369.100, Resistance to electromechanical force (short circuit test) of cable cleats for RTSS, Revision: 01, Pages: 28

Drawing No. 2162730.01-INC, resistance to electromechanical force (short-circuit test) of cable cleats for HDSS, Revision: -, Pages: 16

Drawing No. 2165081.01-INC, resistance to electromechanical force (short-circuit test) of cable cleats for SD/LDAL/HDSS/RTAL/2BC, Revision: -, Pages: 80

Drawing No. 2165081.02-INC, resistance to electromechanical force (short-circuit test) of cable cleats for 2BC, Revision: -, Pages: 24

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Drawing No. 2172636.01-INC, resistance to electromechanical force (short-circuit test) of cable cleats for HDSS/SDSS/RTSS, Revision: -, Pages: 104
Drawing No. 2175522.01-INC, resistance to electromechanical force (short-circuit test) of cable cleats RTSS/SDSTR/SDSS/HDSS, Revision: -, Pages: 87
Drawing No. 2181682.03-INC, Resistance to electromechanical force (short circuit test) of cable cleats for sapphire, Revision: -, Pages: 2
Drawing No. 2190901.04-INC, Resistance to electromechanical force (short circuit test) of cable cleats, Revision: -, Pages: 2
Drawing No. 2190901.05-INC, Resistance to electromechanical force (short circuit test) of cable cleats for valiant & Sabre, Revision: -, Pages: 2
Drawing No. 345390, IEC 60695-11-5:204-12 compliance, Revision: 1, Pages: 7
Drawing No. 345394, IEC 60695-11-5:204-12 compliance 2, Revision: 1, Pages: 7
Drawing No. Cleats datasheet, Cleats datasheet, Revision: -, Pages: 4
Drawing No. Conqueror, Conqueror IEC 61914:2009 clauses 9.2 - impact, 9.3 - lateral retention & 9.4 axial retention, Revision: 2, Pages: 6
Drawing No. Conqueror test report, Conqueror test report, Revision: -, Pages: 5
Drawing No. Cyclone II, Cyclone II IEC 61914:2009 clauses 9.2 - impact, 9.3 - lateral retention & 9.4 axial retention, Revision: 1, Pages: 6
Drawing No. Cyclone II test report, Cyclone II test report, Revision: -, Pages: 5
Drawing No. Cyclone III, Cyclone III IEC 61914:2009 clauses 9.2 - impact, 9.3 - lateral retention & 9.4 axial retention, Revision: 1, Pages: 6
Drawing No. Cyclone III test report, Cyclone III test report, Revision: -, Pages: 5
Drawing No. D10533-1, 192hr. Neutral Salt Spray Testing of Cleats in Accordance with ISO 9227/IEC 61914, Revision: -, Pages: 7
Drawing No. Falcon, Falcon IEC 61914:2009 clauses 9.2 - impact, 9.3 - lateral retention & 9.4 axial retention, Revision: 2, Pages: 6
Drawing No. Falcon test report, Falcon test report, Revision: -, Pages: 4
Drawing No. ICL/H14/4050, fire hazard testing IEC 60695-11-5:2005, Revision: -, Pages: 6
Drawing No. ICL/H14/4189, fire hazard testing IEC 60695-11-5:2005, Revision: -, Pages: 6
Drawing No. Patriot, Patriot IEC 61914:2009 clauses 9.2 - impact, 9.3 - lateral retention & 9.4 axial retention, Revision: 2, Pages: 6
Drawing No. Patriot test report, Patriot test report, Revision: -, Pages: 5
Drawing No. Sabre, Sabre IEC 61914:2009 clauses 9.2 - impact, 9.3 - lateral retention & 9.4 axial retention, Revision: 1, Pages: 6
Drawing No. Sabre test report, Sabre test report, Revision: -, Pages: 3
Drawing No. Sapphire, Sapphire IEC 61914:2009 clauses 9.2 - impact, 9.3 - lateral retention & 9.4 axial retention, Revision: 1, Pages: 6
Drawing No. Sapphire test report, Sapphire test report, Revision: -, Pages: 4
Drawing No. Sovereign, Sovereign IEC 61914:2009 clauses 9.2 - impact, 9.3 - lateral retention & 9.4 axial retention, Revision: 1, Pages: 6
Drawing No. Sovereign test report, Sovereign test report, Revision: -, Pages: 5
Drawing No. TREFOIL, STRAP CLEAT DATA SHEETS, Cyclone I - STR Cleat 2 Loop Data Sheets, Revision: -, Pages: 14
Drawing No. UV report - D6355-1, Accelerated Weathering Testing on Cable Cleats Performed in Accordance with IEC 61914 2009, Revision: -, Pages: 7
Drawing No. UV report - F3079, Accelerated Weathering Testing on Cable Cleats Performed in Accordance with IEC 61914 2009, Revision: -, Pages: 7
Drawing No. Valiant, Valiant IEC 61914:2009 clauses 9.2 - impact, 9.3 - lateral retention & 9.4 axial retention, Revision: 1, Pages: 6
Drawing No. Valiant test report, Valiant test report, Revision: -, Pages: 4
Drawing No. Zenith, Zenith IEC 61914:2009 clauses 9.2 - impact, 9.3 - lateral retention & 9.4 axial retention, Revision: 2, Pages: 6

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Drawing No. Zenith test report, Zenith test report, Revision: -, Pages: 5

Terms of Validity:

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STANDARDS**ABS Rules:**

- Steel Vessel Rules (2016): 1-1-4/7.7, 1-1-A3&A4.
- Steel Vessels Under 90 Meters (295 Feet) in Length (2016): 1-1-4/7.7, 1-1-A3&A4.
- Facilities on Offshore Installations (2016): 1-1-4/9.7, 1-1-A2&A3.
- Offshore Support Vessels (2016): 1-1-4/7.7, 1-1-A3&A4.
- Mobile Offshore Drilling Units (2016): 1-1-4/9.7, 1-1-A2&A3.
- Steel Vessels for Service on Rivers and Intracoastal Waterways (2016): 1-1-4/7.7, 1-1-A3&A4.
- High Speed Crafts (2016): 1-1-4/11.9, 1-1-A2&A3.
- Steel Barge Rules (2016): 1-1-4/7.9, 1-1-A3&A4.

National:

NA

International:

IEC 61914 Ed. 1.0 b:2009; IEC 60695-11-5 Ed. 1.0 B:2004

Government:

NA

EUMED:

NA

OTHERS: TC

NA