



CERTIFICATE NUMBER

10-HS630287-PDA

DATE

08 October 2010

ABS TECHNICAL OFFICE

Houston SED - Ship Equipment

# CERTIFICATE OF DESIGN ASSESSMENT

This is to Certify that a representative of this Bureau did, at the request of  
**CMP PRODUCTS - NEWCASTLE UPON TYNE**

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. It will remain valid as noted below or until the Rules or specifications used in the assessment are revised (whichever occurs first).


PRODUCT: Cable, Glands and Accessories

MODEL: TC, TMC2, TMC2X

ABS RULE: 2010 Steel Vessels Rules 1-1-4/7.7, 1-1-Appendix 3, 4-8-3/1.7, 4-8-3/13, 4-8-4/27.5.

OTHER STANDARD: UL514B, UL2225; CSA File 101909-0-000 (Class 4418-05 & 4418-85)  
Sira Certificate No: IECEX SIR 09.0042X for TC Cable Glands  
Sira Certificate No: IECEX SIR 09.0068X for TMC2 Cable Glands  
Sira Certificate No: IECEX SIR 09.0069X for TMC2X Cable Glands  
BS 6121 Part 1:1989  
CSA 22.2, IEC/EN 60079-0, 60079-1, 60079-7, 61241-1; None;

AMERICAN BUREAU OF SHIPPING

  
Tim Kimble

Engineering Type Approval Co-ordinator

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).

## **CMP PRODUCTS**

GLASSHOUSE STREET  
ST PETERS  
NEWCASTLE UPON TYNE  
ENGLAND NE6 1BE  
United Kingdom  
Telephone: +44-191 265 7411  
Fax: +44-191 265 0581

**MA Certificate No.** 07-NC862331

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**Product:** Cable, Glands and Accessories

**Model:** TC, TMC2, TMC2X

**Intended Service:**

Use with various types of cables in hazardous locations on Ship & Offshore Units

**Description:**

Cable Glands Certified for Increased Safety & Dust

Model TC: The devices are designed to be threaded into suitably certified enclosures to permit the entry of unarmored cables.

Model TMC2: The devices are designed to be threaded into suitably certified enclosures to permit the entry of metal clad (MC) cables.

Model TMC2X: The devices are designed to be threaded into suitably certified enclosures to permit the entry of metal clad (MC) cables.

**Ratings:**

Sizes : ½" to 4"

Continuous Operating Temperature: -60°C to +110°C;

Hazardous Area: CSA: Class I, Div.2, ABCD; Class II, Div.2, EFG; Class III; Class I, Zone 2, A Ex d IIC, IIB, IIA;

ATEX/IECEx: Ex d IIC, Ex e IIC Gb, Ex ta III da

Ingress Protection: Nema 4X & IP 66/67/68;

See attached "pdf" for additional details.

**Service Restrictions:**

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.

**Comments:**

TC Range of Products - Sira Assessment Report R51L17461B

TMC2 & TMC2X Range of Products - Sira Assessment Report R51L17461B

**Notes / Drawings / Documentation:**

Supporting Documentation: CMP American Product Specification Sheet TPC185 to TPC187 issue 1 dated Oct. 2009,

**Term of Validity:**

This Product Design Assessment (PDA) Certificate 10-HS630287-PDA, dated 08/Oct/2010 remains valid until 07/Oct/2015 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.

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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:**

2010 Steel Vessels Rules 1-1-4/7.7, 1-1-Appendix 3, 4-8-3/1.7, 4-8-3/13, 4-8-4/27.5.

**National:**

UL514B, UL2225

**International:**

CSA File 101909-0-000 (Class 4418-05 & 4418-85)  
Sira Certificate No: IECEx SIR 09.0042X for TC Cable Glands  
Sira Certificate No: IECEx SIR 09.0068X for TMC2 Cable Glands  
Sira Certificate No: IECEx SIR 09.0069X for TMC2X Cable Glands  
BS 6121 Part 1:1989  
CSA 22.2, IEC/EN 60079-0, 60079-1, 60079-7, 61241-1

**Government Authority:**

NA

**EUMED:**

NA

**Others:**

None