



CERTIFICATE NUMBER
15-VC1381414-PDA

DATE
04 Sep 2015

ABS TECHNICAL OFFICE
TIV-MEX-Veracruz Engineering
Services

CERTIFICATE OF DESIGN ASSESSMENT

This is to certify that a representative of this Bureau did, at the request of
ASSOCIATED TECHNOLOGIES

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: **Fastener, Bonded**

Model: **AT-3, AT-5 & AT-113**

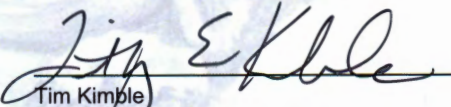
This Product Design Assessment (PDA) Certificate 15-VC1381414-PDA, dated 04/Sep/2015 remains valid until 03/Sep/2020 or until the Rules or specifications used in the assessment are revised (whichever occurs first).

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


Tim Kimble
Engineer

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).

ASSOCIATED TECHNOLOGIES

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DURHAM CT

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Tier: 2 - PDA Issued

Product: Fastener, Bonded

Model: AT-3, AT-5 & AT-113

Intended Service:

Marine and Offshore Application - for Mechanical Attachment Point with Adhesive bond for use of electrical wires and hoses.

Description:

Wire Tie Mounts AT-3, AT-5 and AT-113 manufactured with nylon 6/6, strap bonded with AT-8040 Acrylic Adhesive.

Rating:

AT-3 maximum load: 50 lbs.

AT-5 maximum load: 50 lbs.

AT-113 maximum load: 150 lbs.

AT-8040 service temperature range: -65 °F to 225 °F

See Attached "PDF" "Weld Mount ABS Part Categories" for Weld Mount Part Description - Fastener Usage (Recommended Application and Restriction).

Service Restriction:

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

i) Bonding process to be followed per manufacturer's installation instructions.

ii) Not suitable for use as Cable Ties, unless a flame retardant test is provided in accordance with IEC 60092-101as indicated in Steel Vessel Rules 4-8-4/21.9.3. b)

iv) Material to be stored, handled and used in accordance with manufacturer's recommendation.

v) When used for cables not laid on top of horizontal cable trays or similar, suitable metal clips or straps are to be added at regular intervals not exceeding 2 m (6.5 ft) in order to prevent the release of cables during a fire. This requirement, however, need not apply to one or up to a few small diameter cables connecting to lights, alarm transducers, etc.

vi) Bonding process to be followed per manufacturer's installation instructions.

Comments:

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

i) Storage instructions and expiration dates are to be clearly marked on the package.

ii) Fastener are not recommendable for use in the locations where the service temperature exceeds that of the specified adhesive.

iii) Extent of use to be reviewed on a case by case basis.

iv) Particular attention need to be given to surface preparation and cleanliness of the surface to be bonded.

Notes/Drawing/Documentation:

Drawing AT-3 Rev. A Plastic Tie Mount.

Drawing AT-5 Rev. - Plastic Tie Mount.

Drawing AT-113 Rev. - Plastic Tie Mount.

AT-8040 Structural Acrylic Adhesive Datasheet Description.

Installation Procedure AT-8040

Instructions for using AT-8040

Project No. 2013-1125, Appendix #10 Progressive Engineering Inc. ASTM B117 Salt Fog Test.

Pull Test Report Appendix #1 Weld Mount AT-5 Wire Tie Mount.

Weld Mount ABS Part Categories Part Description - Fastener Usage.

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Terms of Validity:

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STANDARDS

ABS Rules:

The Rules for Conditions of Classification, Part 1 2015 Steel Vessels Rules 1-1-4/7.7, 1-1-A3, 1-1-A4, which covers the following:

2015 Steel Vessel , 4-8-4/21.9.1.

The Rules for Conditions of Classification, Part 1 - 2015 Offshore Units and Structures 1-1-4/9.7, 1-1-A2, 1-1-A3 which covers the following:

2015 Mobile Offshore Drilling Units 4-3-3/5.9.1., 7-1-5/5.9.1.

National:

ASTM B117 Standard Practice for Operating Salt Spray (Fog) Apparatus. (2011)

International:

NA

Government:

NA

EUMED:

NA

OTHERS:

NA