



Confirmation of Product Type Approval

Please refer to the "Service Restrictions" shown below to determine if Unit Certification is required for this product. This certificate reflects the information on the product in the ABS Records as of the date and time the certificate is printed.

Pursuant to the Rules of the American Bureau of Shipping (ABS), the manufacturer of the below listed product held a valid Manufacturing Assessment (MA) with expiration date of 12/MAY/2020. The continued validity of the Manufacturing Assessment is dependent on completion of satisfactory audits as required by the ABS Rules.

And; a Product Design Assessment (PDA) valid until 08/MAR/2021 subject to continued compliance with the Rules or standards used in the evaluation of the product.

The above entitle the product to be called Product Type Approved.

The Product Design Assessment is valid for products intended for use on ABS classed vessels, MODUs or facilities which are in existence or under contract for construction on the date of the ABS Rules used to evaluate the Product.

ABS makes no representations regarding Type Approval of the Product for use on vessels, MODUs or facilities built after the date of the ABS Rules used for this evaluation.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that; whether the standard is an ABS Rule or a non-ABS Rule, the Client has full responsibility for continued compliance with the standard.

Product Name: Fastener, Bonded
Model Name(s): CS, CN, CB

Presented to:
CLICK BOND, INC
2151 LOCKHEED WAY
United States

Intended Service: Marine & Offshore Application - for Mechanical Attachment Point with Adhesive.

Description: CS125, CN125, CS200, CN200, CB3019, CB3200, CB9120, CB9151, CB9205, CB9522, CS922 & CS120 Fastener Bonded with CB200 or CB420 Adhesives. Adhesive Bonded Studs, Standoffs, Cable Tie Mounts, Brackets, Loop Strap Fasteners & Pins used for Securing Panels, Electrical Cable Trays, Electrical Cable, Electrical Cable Boxes, Junction Boxes, Light Duty Fixtures, Light Hangers, Pipe and Tube Clamps and Furnishing Support Foundation supporting Filing Cabinets, Sleepings Berth, Tables, Chairs, etc.

Ratings: See attached "pdf" for "Recommended Application, Design Service Loads and Restrictions"; "Material Data Sheet" and "Table 1 Fastener Usage."

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. i) Material to be stored, handled and used in accordance with manufacturer's recommendation. ii) Bonding process to be followed per manufacturer's installation instructions (CBPS-233 Process Specification). iii) Click Bond Fasteners manufactured from Non-Anodized Aluminum and Carbon Steel are not suitable for installation. iv) 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. v) Plastic cable straps are not to be used for cable support on High Speed Craft but may be used with a combination of metallic cable straps for retaining cables.

Comments:

The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product. When used on ABS Classed Vessels: i) Storage instructions and expiration dates are to be clearly marked on the package. ii) Click Bond fasteners are not recommended for use in the following applications: a) Locations where the service temperature exceeds that of the specified adhesive, or generally in environments where the continuous service temperatures are in excess of 250 °F (121 °C). b) Applications on thin, unsupported substrate. For fastener with base diameters of greater than 1.25 inches, the substrate thickness must be greater than 0.125 inches (0.32 cm). iii) Extent of use to be reviewed on a case by case basis.

Notes / Documentation:

Dwg. CB3200, Rev. 5 - Stud, Very Large, Adhesive Bonded Dwg. CB9120, Rev. 6 - Mount, Cable Tie Anchor Dwg. CB9151, Rev. 2 - Mount, Cable Tie Anchor, Transverse Base Dwg. CB9205, Rev. 5 - Loop, Strap Fastener Dwg. CB9522, Rev. 9 - Stud, Adhesive Bonded, Self Fixturing Dwg. CN200, Rev. 2 - Standoff, Very Large Base, Adhesive Bonded Dwg. CS120, Rev. 1 - Pin, Insulation Mount Dwg. CS125, Rev. 11 - Stud, Adhesive Bonded Dwg. CS922, Rev. 2 - Stud, Adhesive Bonded, Self Fixturing Dwg. CN125, Rev. 13 - Standoff, Adhesive Bonded Dwg. CS200, Rev. 12 - Stud, Very Large Base, Adhesive Bonded Dwg. CB3019, Rev. 18 - Mount. Cable Tie Test Reports: Single Lap Shear of Click Bond CB200 Adhesive (per MIL-1312) Tested at 75°F and 250 °F Bonded to 7075-T6 Aluminum Substrate, dated 26 December 1996. Data From Salt Water Fluid Immersion Test of CB9522 Studs Bonded with CB200 Adhesive, Report No. 9958 dated 11 September 2007. ETR97-0050 Tension Testing of Click Bond CB3019AA3V750 Cable Tie Mount, dated 18 November 1997. ETR98-0003 Tension and Shear Testing of Click Bond CB3019AA()V750 (Ultem Mount) and CB3019AA()N750 (Nylon Mount) Cable Tie Mounts, dated 23 February 1998. ETR03-041 Tensile, Peel, Modified Shear, and Shear Testing of Click Bond Adhesive Bonded Fastener Bonded to Shipboard Materials with AO420 Adhesive, PR2001 B-1/2 Sealant and RTV Sealant, dated 26 September 2003. ETR03-057A Tensile Testing of CB9522CR10-10 Deckboard Mounting Studs Bonded with CB200 Adhesive to 3/8" inch Steel Plate Hot/Wet Conditioned for 30 days, dated 23 January 2006. ETR04-007 Tensile and Shear Testing of CS125-51618-()CR and CS200-3824-()CR Studs Bonded with CB200 Acrylic Adhesive and CB359 Epoxy Adhesive to Steel Substrate, dated 19 March 2004. ETR08-022 Tensile Testing and 3" Modified Shear Testing of CS200-51618-16CR125 Studs Bonded with CB200 Adhesive to 1/2" Thick Steel Substrate, dated 13 June 2008. ETR08-027 Tensile Testing of CS200-3816-16CR Studs Bonded with CB200 Adhesive to Bare Steel Test Performed at 350 ° F and 400 ° F. ETR10-27 Adhesive Bonded Fastener Certification Test, dated 13 August 2010. SwRI Project No. 01.1648.02.020 IEC60092-101, Electrical Installations Ships - Part 101: Definitions and General Requirements, Flame Retardant Test, dated 17 January 2011.

Term of Validity:

This Product Design Assessment (PDA) Certificate 16-HS1494024-PDA, dated 09/Mar/2016 remains valid until 08/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.

ABS Rules:

2016 Steel Vessels Rules 1-1-4/7.7, 1-1-A3 & 4, 4-8-4/21.9.1, 21.9.3(b); 2016 ABS Rules for Steel Vessels Rules Under 90 Meters (295 feet) in Length 1-1-4/7.7, 1-1-A3 & 4, 4-6-3/5.9.1(c), 5.9.1(f); 2016 Rules For Building and Classing High-Speed Craft 1-1-4/11.9, 1-1-A2, 1-1-A3, 4-6-3/5.9.1 (c), 5.9.1 (f); 2016 ABS High Speed Naval Craft Rules 1-1-4/11.9, 1-1-A2, 1-1-A3, 4-8-3/5.3.1; 2014 (Up-dated July 2015) Guides For Building and Classing Yachts 4-1-1/3.3, 4-1-1/3.3, 4-6-3/5.1.4.

National Standards:
International Standards:

Government Authority:**EUMED:****Others:**

2016 ABS Rules for Building and Classing Steel Vessel Rules for Service on Rivers & Intracoastal Waterways 4-5-3/5.9.1(c), 5.9.1(f); 2016 ABS Rules for Building and Classing Steel Barges 4-1-3/1;

Model Certificate	Model Certificate No	Issue Date	Expiry Date
PDA	16-HS1494024-PDA	10/MAR/2016	08/MAR/2021



ABS Programs

ABS has used due diligence in the preparation of this certificate and it represents the information on the product in the ABS Records as of the date and time the certificate was printed. Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. Limited circumstances may allow only Prototype Testing to satisfy Type Approval. The approvals of Drawings and Products remain valid as long as the ABS Rule, to which they were assessed, remains valid. ABS cautions manufacturers to review and maintain compliance with all other specifications to which the product may have been assessed. Further, unless it is specifically indicated in the description of the product; Type Approval does not necessarily waive witnessed inspection or survey procedures (where otherwise required) for products to be used in a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS. Questions regarding the validity of ABS Rules or the need for supplemental testing or inspection of such products should, in all cases, be addressed to ABS.