



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 31/JAN/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): CB4595/CM459, Mounting Stauff Clamp Body Base.

Presented to:

CLICK BOND, INC
2151 LOCKHEED WAY
United States

Intended Service:

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

Description:

Mounting Stauff Clamp Body Base of Material 316SS Bonded with CB200 or CB420 Acrylic Adhesives. Base dimensions: CB4595 / CM459 1A 1.18" (30.0 mm) x 1.46" (37.0 mm) CB4595 / CM459 2 1.18" (30.0 mm) x 1.65" (42.0 mm) CB4595 / CM459 3 1.18" (30.0 mm) x 1.97" (50.0 mm) CB4595 / CM459 4 1.18" (30.0 mm) x 2.32" (59.0 mm) CB4595 / CM459 5 1.18" (30.0 mm) x 2.90" (71.0 mm) CB4595 / CM459 6 1.18" (30.0 mm) x 3.39" (86.0 mm) CB4595 / CM459 7 1.18" (30.0 mm) x 4.76" (121.0 mm) CB4595 / CM459 8 1.18" (30.0 mm) x 5.79" (147.0 mm)

Ratings:

Maximum Allowable Tension and Shear Force: CB4595 / CM459 1A Tension: 60 Lbs (27.2 Kg), Shear: 40 Lbs (18.1 Kg) CB4595 / CM459 2 Tension: 60 Lbs (27.2 Kg), Shear: 40 Lbs (18.1 Kg) CB4595 / CM459 3 Tension: 60 Lbs (27.2 Kg), Shear: 40 Lbs (18.1 Kg) CB4595 / CM459 4 Tension: 70 Lbs (31.8 Kg), Shear: 40 Lbs (18.1 Kg) CB4595 / CM459 5 Tension: 80 Lbs (36.3 Kg), Shear: 40 Lbs (18.1 Kg) CB4595 / CM459 6 Tension: 100 Lbs (45.4 Kg), Shear: 40 Lbs (18.1 Kg) CB4595 / CM459 7 Tension: 100 Lbs (45.4 Kg), Shear: 40 Lbs (18.1 Kg) CB4595 / CM459 8 Tension: 100 Lbs (45.4 Kg), Shear: 40 Lbs (18.1 Kg)

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. 1. Material to be stored, handled and used in accordance with manufacturer's recommendation. 2. Particular attention need to be given to surface

preparation and cleanliness of the surface to be bonded. 3. Bonding process to be followed per manufacturer's installation instructions (CBPS-244 Process Specification). Special attention should be given if installed on craft classed to the 2016 ABS High Speed Naval Craft Rules where the Naval Technical Authority (NTA) provides requirements for shock. See 4-8-3/5.3.1 of ABS High Speed Naval Craft Rules.

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: 1. Details of Structural Adhesive are to be specified on the Material Data Sheet and on the Construction Plans submitted. 2. Specific Joints, extent of use, and substrates are to be reviewed on a case by case basis. 3. Storage Instructions and Expiration Dates are to be clearly marked on the package.

Notes / Documentation:

Drawing No. CB200 Data Sheet, CB200 acrylic structural adhesive, Revision: 7, Pages: - Drawing No. CB420 Data Sheet, CB420 acrylic structural adhesive, Revision: 3, Pages: - Drawing No. CBPS-244, CBPS-244 process specification, Revision: 1, Pages: 1 Drawing No. CM459, Base, Mounting, Stauff Clamp Body, Revision: 3, Pages: 1 Drawing No. Correspondence, Asbestos Free Declaration, Revision: -, Pages: - Drawing No. Correspondence, Type Approval Application, Revision: -, Pages: - Drawing No. ETR03-057A, Tensile testing of CB9522CR10-10 deckboard mounting studs bonded with CB200 adhesive to 3/8 inch steel plate accelerated aging by 30 day hot/wet exposure, Revision: -, Pages: - Drawing No. ETR14-012, Tensile, longitudinal shear, and 45 degree tensile testing of CM459CRM4-2P, CM459CRM4-5P, and CM459CRM4-6P Stauff® adhesive bonded 316 CRES bases, bonded with CB420 acrylic adhesive to aluminum, Revision: -, Pages: 1 Drawing No. ETR15-018, Baseline testing in tension, offset tension, shear, and 45 degree shear of CM459CRM stauff® adhesive bonded 316 CRES bases, bonded with CB200 and CB420 acrylic adhesives to A36 steel substrates, Revision: -, Pages: - Drawing No. SwRI Project No.: 01.17789.02.026a, FTP Code Part 5 - Flame Spread Final Report (CB420-50 Adhesive), Revision: -, Pages: - Drawing No. SwRI Project No.: 01.17789.02.026b, FTP Code Part 2 - Smoke and Toxicity Final Report (CB420-50 Adhesive), Revision: -, Pages: -

Term of Validity:

This Product Design Assessment (PDA) Certificate 16-HS1472134-1-PDA, dated 01/Feb/2016 remains valid until 31/Jan/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-Appendix 3 & 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-Appendix 3 & 4, 4-6-3/5.9.1(c), 5.9.1(f); 2016 Rules For Building and Classing High-Speed Craft 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, 4-6-3/5.1.4.

- 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-HS1472134-1-PDA | 10/FEB/2016 | 31/JAN/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.