



## Confirmation of Product Type Approval

**Company Name:** HILTI AKTIENGESELLSCHAFT

**Address:** FELDKIRCHERSTR. 100 Liechtenstein

**Product:** Fire Stop System

**Model(s):** Hilti Cable Transit System: "CFS-T SS", "CFS-T SSF", "CFS-T RR", "CFS-T RRS", "CFS-T SSR", "CFS-T SSR/R30", "CFS-T SSRF/R30", "CFS-T EX", "CFS-T EMC", "CFS-T RR EMC".

### Endorsements:

Certificate Type	Certificate Number	Issue Date	Expiry Date
Product Design Assessment (PDA)	19-HG1826648-PDA	18-FEB-2019	17-FEB-2024
Manufacturing Assessment (MA)	21-4879051	29-JUL-2021	30-AUG-2026
Product Quality Assurance (PQA)	NA	NA	NA

### Tier

3 - Type Approved, unit certification not required

### Intended Service

Multi cable transit systems for A-60 steel bulkhead and deck penetrations and steel / copper pipe transit systems for A-60 steel deck and bulkhead penetrations.

### Description

Modular cable and pipe transit system consisting of steel or stainless steel frames or plugs in combination with insert blocks, made from halogen-free elastomeric rubber, as well as compression units and anchor plates.

For technical details and data click on link "[View More Details](#)".

### Ratings

Class "A60" steel bulkhead and deck penetrations.

Model SS/SSF 8x1 tested water tight at a pressure of 4.5 bar, and gas tight at a pressure of 3 bar.

Model SS-2x1 tested water tight at a pressure of 11 bar and gas tight at a pressure of 7 bar.

Filler module 60/0 tested for short term chemical resistance to natural gasoline, acc. to ISO 37 and for air tightness (0.5 bar, 10 min.) after storage at -60°C for four days.

Degree of Protection: IP66, IP67, IP69 (TÜV SÜD, TR-46085-19369-02).

Certified safe type: II 2 GD Ex e II IP65 (TUV Sud, 71342881).

**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.

- Only to be used in the tested configurations as under "Description" above.

- Not to be used for penetrations of tank boundaries.

- Bundling of cables is not permitted in watertight bulkheads.

**Comments**

- ATEX certified equipment is not to be installed in hazardous areas on U.S. vessels unless it can be proven to have been tested to the applicable IEC 60079 series standards by an independent laboratory accepted by the U.S. Coast Guard.

- Application and use is to be in accordance with manufacturer's instructions.

- Each particular installation arrangement is to be specifically approved.

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

- This Product Design Assessment is not done on behalf of any government.

**Notes, Drawings and Documentation**

Drawing No. 71342881, ATEX Certificate, TUV Sud, 20/05/2009, Revision: 1, Pages: 4

Drawing No. Bulkhead 1- P 474-17-530-2, Test Report, ZAG, 09/05/2017, Revision: -, Pages: 85

Drawing No. Bulkhead 2- P 1139-17-530-1, Test Report, ZAG, 21/11/2017, Revision: -, Pages: 79

Drawing No. Bulkhead 3- P 1139-17-530-3, Test Report, ZAG, 21/11/2017, Revision: -, Pages: 81

Drawing No. Bulkhead 4- P 1139-17-530-2, Test Report, ZAG, 21/11/2017, Revision: -, Pages: 81

Drawing No. Bulkhead 5- 19039A, Test Report, WarringtonFireGent, 21/06/2018, Revision: -, Pages: 57

Drawing No. Bulkhead 6- 19040A, Test Report, WarringtonFireGent, 21/06/2018, Revision: -, Pages: 56

Drawing No. Bulkhead 7- 19210A, Test Report, WarringtonFireGent, 07/08/2018, Revision: -, Pages: 54

Drawing No. CFS-T\_RR-D\_P, Drawings, Bulkhead, Pipe, Revision: -, Pages: 3

Drawing No. CFS-T\_RR\_RRS, Drawings, Bulkhead, Revision: -, Pages: 10

Drawing No. CFS-T\_RR\_RRS-D, Drawings, Deck, Revision: -, Pages: 16

Drawing No. CFS-T\_SS\_SSF\_SSR\_SSR-R30, Drawings, Bulkhead, Revision: -, Pages: 39

Drawing No. CFS-T\_SS\_SSF\_SSR\_SSR-R30 1, Drawings, Deck, Revision: -, Pages: 54

Drawing No. CFS-T\_SS\_SSF\_SSR\_SSR-R30\_Pipe, Drawings, Deck, Pipe, Revision: -, Pages: 21

Drawing No. CFS-T\_SS\_SSF\_SSR\_SSR-R30\_Pipe\_Bulkhead, Drawings, Bulkhead, Pipe, Revision: -, Pages: 24

Drawing No. Cable\_Transit\_EMC, Brochure, Revision: -, Pages: 1

Drawing No. Cable\_Transit\_EX, Brochure, Revision: -, Pages: 1

Drawing No. Deck 1- P 474-17-530-1, Test Report, ZAG, 09/05/2017, Revision: -, Pages: 87

Drawing No. Deck 2- P 1139-17-530-4, Test Report, ZAG, 21/11/2017, Revision: -, Pages: 80

Drawing No. Deck 3- 19041A, Test Report, WarringtonFireGent, 28/06/2018, Revision: -, Pages: 56

Drawing No. WTGT CFS-T-291018-01, Test Report, Water-/ Gas tightness, Hilti, 29/10/2018, Revision: -, Pages: 4

Drawing No. WT-Test\_CFS-T 8x1\_070219, Test Report, Water-/ Gas tightness, Hilti, 07/02/2019, Revision: -, Pages: 4

### **Term of Validity**

This Product Design Assessment (PDA) Certificate 19-HG1826648-PDA, dated 18/Feb/2019 remains valid until 17/Feb/2024 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**

2019 Marine Vessel Rules, 1-1-4/7.7, 1-1-A3, 1-1-A4, 4-8-4/21.13

### **International Standards**

IMO Resolution MSC.307(88) (FTP Code, Edition 2012), Annex 1 Part 3.

### **EU-MED Standards**

NA

### **National Standards**

NA

### **Government Standards**

NA

### **Other Standards**

NA



A handwritten signature in black ink, appearing to read 'James J. Wilk'.

Corporate ABS Programs

American Bureau of Shipping  
Print Date and Time: 27-Oct-2022 9:56

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 is printed.

If the Rules and/or standards used in the PDA evaluation are revised or if there is a design modification (whichever occurs first), a PDA revalidation may be necessary.

The continued validity of the MA is dependent on completion of satisfactory audits as required by the ABS Rules. The validity of both PDA and MA entitles the product to receive a **Confirmation of Product Type Approval**.

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or prior to the effective date of the ABS Rules and standards applied at the time of PDA issuance. 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.

Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. The manufacturer is responsible to maintain compliance with all specifications applicable to the product design assessment. Unless specifically indicated in the description of the product, certification under type approval does not waive requirements for witnessed inspection or additional survey for product use on a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS.

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.

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.