

## EC Type Examination Certificate Notified Body 0729

This is to certify that ABS Europe Ltd., as a Notified Body under the authorization of UK MCA by Merchant Shipping Regulations 2016, S.I. 2016 Number 1025 and MSN 1874 (M+F), as amended, did undertake the relevant type approval procedures for the equipment identified below and same was found to be in compliance with the provisions of these Regulations and EU Marine Equipment Directive 2014/90/EU of 18<sup>th</sup> September 2016.

ITEM NUMBER: MED/3.26(a), MED/3.26(b)

IMPLEMENTING REGULATIONS (EU) 2018/773

USCG CATEGORY NUMBER: 164.138

CERTIFICATE NUMBER: 11-HG742760-2-EC

USCG MODULE B NUMBER: 164.138/EC0729

APPLICANT: HILTI AKTIENGESELLSCHAFT

APPLICANT'S LOCATION: Feldkircherstr 100, 9494 Schaan, Liechtenstein

PORT OFFICE: Hamburg, Germany

Product Designation: Penetrations through 'A' Class Divisions – electric cable transits, pipe, duct, trunk, etc.

Fire Stop, 'CFS-T SS', 'CFS-T SSF', 'CFS-T RR', 'CFS-T SSR', 'CFS-T SSR/R30',

'CFS-T SSRF/R30', 'CFS-T RRS'

STANDARDS AND REGULATIONS: Regulation II-2/9 of SOLAS 74 as Amended

IMO Resolution MSC.307(88) – 2010 FTP Code as amended

IMO MSC.1/Circ. 1488

THIS CERTIFICATE IS ISSUED IN COMPLIANCE WITH CONFORMITY ASSESSMENT MODULE B OF THE REGULATIONS AND DIRECTIVES LISTED ABOVE.

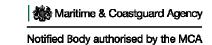
Issue Date: 30 August 2019 Expiration Date: 17 February 2024

SIGNATURE: N. Tvagi

Should the specified regulations or standards be amended during the validity of this certificate, the products are to be re-approved prior to being placed on board vessels to which the amended regulations or standards apply.

This "Mark of Conformity" may only be affixed to the above equipment and a Manufacturer's Declaration of Conformity issued when the production-control phase Module (D, E or F) of Annex II of the Directive is fully complied with and controlled by a written agreement with a Notified Body.

The attached document list forms part of this Certificate.



Certificate No.: 11-HG742760-2-EC

Entry Date: 30 August 2019

Name of Equipment/ HILTI AKTIENGESELLSCHAFT

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**Equipment/Component:** 

Multi cable transit systems for A-60 steel deck and

bulkhead penetrations

Model: Fire stop "CFS-T SSF", "CFS-T RR", "CFS-T SSR",

"CFS-T SSR/R30", "CFS-T SSRF/R30", "CFS-T RRS"

Description:

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

1. Steel deck and bulkhead penetration

Maximum aperture size of the	297x660 mm,	"SS" and "SSF"
penetration	270x584 mm	
	205 mm diameter	"RR"
	103 mm diameter	"RRS"
Maximum combination of transit	Multiple	
Maximum cable size	80 mm diameter	
Degree of filling	Maximum 100% SS, SSF, SSR, SSR/R30, RR, RRS	
Spacing between ducted cables	Min. 4 mm	
Insulation	Paroc Marine Fire Slab 100	
In addition to A-60 Bulkhead	100 mm	RR-50-200, RRS 50-100, SS, SSF, SSR, SSR/R30
insulation		
In addition to A-60 Deck insulation	60/100 mm	SS, SSF, SSR, SSR/R30, RRS 50-100, RR 50-200

Installation are to be in accordance with the test arrangement drawings and as follows: No insulation material between cables is required for installations in accordance with test arrangement drawings contained in test report ZAG P0474/17-530-2 and ZAG P1139/17-530-1 and ZAG P1139/17-530-3 and ZAG P1139/17-530-2 for steel bulkhead and drawings contained in test report ZAG P0605/08/530-2 for steel deck. For deck penetrations of pipes DN50 and copper pipes DN30, additional pipe insulation of 30/60 mm thickness and 300/400 mm length is to be applied on the fire exposed side and the installation is to be in accordance with test arrangement drawing ZAG 0474/17-530-1.

**Intended Service:** 

Sealing of multi cable penetrations in A-60 class steel decks and bulkheads.

Ratings:

Class "A60" bulkhead and deck penetrations. Model SS/SSF 8x1 tested water-tight at a pressure of 4.5 bar and gastight 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.

Standards:

European Union Marine Equipment Directive 2014/90/EU referencing testing requirement of implementing regulations (EU) 2018/773

Regulation II-2/9 of SOLAS 74 as Amended IMO Resolution MSC.307(88) – 2010 FTP Code as amended IMO MSC.1/Circ. 1488

Service Restrictions/Limitations:

Only to be used in tested configuration as under "Description" above.

Not to be used for penetrations of tank boundaries. Bundling of cables is not permitted in watertight bulkheads.

Comments:

the specified regulations or standards be amended during the validity of this certificate, the products are to be reapproved prior to being placed on board vessels to which the amended regulations or standards apply.

This certificate will not be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with the Notified Body named on this certificate.

A Manufacturer's Declaration of Conformity shall be compiled and distributed in line with the requirements of Directive 2014/90/EU Article 16.

The Mark of Conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-control phase module (D, E, or F) of ANNEX B of the Directive is fully complied with and controlled by a written inspection agreement with a notified body.

This product has been assigned a U.S. Coast Guard Module B number 164.138/EC0729 to note type approval to Module B only as it pertains to obtaining US Coast Guard approval as allowed by the "Agreement between the European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment" signed on February 27th, 2004, as amended on Feb 18<sup>th</sup>, 2019.

**Revisions:** 

Certificate N°. 11-HG742760-2-EC dated 30 August 2019 replaces Certificate N°. 11-HG742760-1-EC

## **Drawing Schedule:**

Drawing No	Description	
19-HG1826648-PDA	ABS Product Design Assessment Certificate	
71342881	Atex Certificate	
P474-17-530-2	Test report ZAG 09/05/2017	
P1139-17-530-1	Test Report ZAG 21/11/2017	
P1139-17-530-3	Test report ZAG 21/11/2017	
P1139-17-530-2	Test Report ZAG 21/11/2017	
19039A	Warrington Test Report 21/06/2018	
19040A	Warrington Test Report 21/06/2018	
19210A	Warrington Test Report 07/08/2018	
CFS-T_RR-D_P	Drawings Bulkhead Pipe	
CFS-T_RR_RRS-D	Drawings Deck	
CFS-T_SS_SSF_SSR_SSR-R30	Drawings Bulkhead	
CFS-T_SS_SSF_SSR_SSR-R30	Drawings Deck	
CFS-T_SS_SSF_SSR_SSR-R30	Drawings Deck Pipe	
CFS-T_SS_SSF_SSR_SSR-R30	Drawings Bulkhead Pipe	
P474-17-530-1	Test Report ZAG 09/05/2017	
P1139-17-530-4	Test Report ZAG 21/11/2017	
19041A	Warrington Test Report 28/06/2018	
CFS-T-291018-01	Test Report Water/Gas Tightness 29/10/2018	
CFS-T 8x1_070219	Test Report Water/Gas Tightness 07/02/2019	