DNV·GL

Certificate No:
TAF0000177

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Class A and B Penetration

with type designation(s)
STI EZ-PATH 150 Marine Fire Rated Pathway

Issued to
Specified Technologies Inc.
Somerville, NJ, USA

is found to comply with
DNV GL offshore standards
DNV GL rules for classification – Ships
DNV GL statutory interpretations DNVGL-SI-0364 – SOLAS interpretations

Application :

Approved as A-60 cable penetration in steel bulkheads and decks.

This certificate is recognized by Transport Canada.

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.

Issued at **Høvik** on **2019-05-13**
This Certificate is valid until **2024-05-12**.
DNV GL local station: **Certification & Inspection Services**

Approval Engineer: **Tessa Biever**

for **DNV GL**

Mårten Schei-Nilsson
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

Product description

"STI EZ-PATH 150 Marine Fire Rated Pathway"
consisting of a minimum 150 mm long steel sleeve, rectangular shaped with maximum dimensions of 150x75 mm (width x height). The thickness of the steel sleeve is minimum 1,6 mm.

The penetration system may also be installed as a grid of sleeves with two or four (2x2) sleeves together, the sleeves are fastened to each other.

Intumescent pads are fitted inside the steel sleeve, one on top of the other and fastened to the steel sleeve by steel lock tabs.

The steel sleeve is connected to a mounting plate made of steel, minimum thickness 4,8 mm, which is welded to the bulkhead/deck.

A fiberglass fabric with zipper is fastened with steel strips to the outside of the steel sleeve, thickness minimum 3 mm and length minimum 60 mm, strapped tight around the cables. The fabric is to be installed on the exposed side of the penetration.

Insulation details for deck:
The penetration is insulated on top (unexposed) side by two layers of 280x355x75 mm (360x510x75 mm for 2x2 sleeve grid). The insulation is fitted tight to the cables. The bottom (exposed) side of the penetration is insulated with one layer of 280x355x50 mm (in addition to deck insulation).

Insulation details for bulkhead:
The penetration is insulated on insulated (unexposed) side with 380x355x100 mm (460x510x100 for 2x2 sleeve grid). The insulation is fitted tight to the cables.

The insulation is made of mineral wool, A-60 approved type with minimum density 96 kg/m^3.

The insulation blocks are pinned to the bulkhead or deck.

For further details see drawings listed under Type Approval documentation below.

Application/Limitation

Approved as A-60 cable penetration in steel bulkheads and decks. Other applications are subject for case-by-case approval. Class A-0, A-15 and A-30 shall be insulated as class A-60 and in addition the division is to be insulated at least 200 mm around the penetration.

Cable filling rate: 0-100% visual cable fill or 0-52 % ("cross section of cables" per "clear opening area of sleeve").

Each product is to be supplied with its manual for installation and maintenance.

Type Approval documentation

Certification in accordance with Class Programme DNVGL-CP-0338, September 2018.

Test Report Nos.:
- 4786049246.1.1 (deck test) dated 2013-09-10
- 4786299801 (bulkhead test) dated 2014-01-30

Both from UL LCC, Northbrook, USA.

Test Report Nos.:
- 336038 and 336039 (test with fabric) both dated 2014-04-04
- 331861 Issue 3 (bulkhead test for 2x2 grid of sleeves) dated 2013-11-11

All from Exova Warringtonfire, United Kingdom.

Assessment Report No. 4786311411 dated 2014-02-18 from Exova Waringtonfire, United Kingdom.

Drawing No. MP0034 dated 2019-05-03 from manufacturer.

Tests carried out
Tested according to IMO 2010 FTP Code part 3.

Marking of product
The product or packing is to be marked with name of manufacturer, type designation and fire-technical rating.

Transport Canada Approval
Based on the procedures laid down in the Transport Canada Publication entitled "Approval Procedures for, Life Saving Equipment and Structural Fire Protection Products (TP 14612)", DNV GL confirms that the product/s listed in this certificate is/are in accordance with Transport Canada's requirements.

Periodical assessment
DNV GL's surveyor is to be given permission to perform Periodical Assessments at any time during the validity of this certificate and at least every second year. The arrangement is to be in accordance with procedure described in Class Programme DNVGL-CP-0338, Section 4.