

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Class H Penetration

with type designation(s)

Roxtec Sealing System, H-seals, for copper busway systems

Issued to

Roxtec International AB
KARLSKRONA, Sweden

is found to comply with

DNV GL offshore standards

Application :

Approved as copper busway penetration systems in class H-60 decks and bulkheads.
Restricted application, see page 2.

This Certificate is valid until **2021-11-27**.

Issued at **Høvik** on **2016-11-28**

DNV GL local station: **Malmö**

Approval Engineer: **Fryderyk Hoga**

for **DNV GL**

Petter Langnes
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.

Job Id: **262.1-001101-16**
Certificate No: **TAF00000H2**

Product description

"Roxtec sealing system, H seals, for copper busways systems"
consisting of Roxtec H-seals made from halogen free rubber compound together with stainless steel fittings, installed in square steel frames.

The penetrations are to be insulated with ceramic fibre insulation (FireMaster 607 blanket) with density of 96 kg/m³ according to the approved drawing S1014521 mentioned in the Type Approval documentation below.

For further details see drawing listed under Type Approval documentation.

Application/Limitation

Restricted application is given for penetration of bulkheads. Fire from insulated side only.

Copper busway of type Eta-com Betobar-r, or similar, with dimensions ranging from 138 x 80 mm to 168 x 200 mm.

The penetration system is not to be used for penetrating boundaries of tanks.

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

Type Approval documentation

Certification in accordance with Class Programme DNVGL-CP-0338, October 2015.

Test Reports No. P601739 (H-60 bulkhead) and P601740 (H-60 deck) both dated 28 June 2006 from SP, Sweden.

Insulation drawing no. S1014521 dated 12 August 2008 from Roxtec.

Tests carried out

Tested according to IMO FTPC Part 3 (IMO Res. A.754(18)) and NPD HC fire load/temperature curve.

Marking of product

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

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.