



# EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:  
**MEDB000005V**  
Revision No:  
**5**

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED), issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Authority. This Certificate is issued by DNV AS under the authority of the Government of Norway.

## This is to certify:

That the A & B Class divisions fire integrity: A class divisions.

with type designation(s)

**Steel Bulkhead A60 with SeaRox FB or FM 6040; stiffeners: SeaRox FM 6040, SeaRox FB or FM 6050**

Issued to

**Rockwool A/S**  
**Hedehusene, Denmark**

is found to comply with the requirements in the following Regulations/Standards:

Regulation (EU) 2021/1158,

item No. MED/3.11a. SOLAS 74 as amended, Regulation II-2/3.2 & II-2/9, IMO 2010 FTP Code, IMO MSC/Circ.1120 and IMO MSC.1/Circ.1434, IMO MSC.1/Circ.1435.

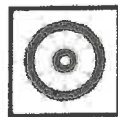
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2025-07-27**.

Issued at **Høvik** on **2022-06-08**

DNV local station:  
**Sweden CMC**

Approval Engineer:  
**Marcin Toblasz**



Notified Body  
No.: **0575**



for DNV AS

Digitally Signed By:  
**Øyvind Hoff**  
Location: DNV Høvik, Norway  
on behalf of

**Sverre Olav Bergli**  
**Head of Notified Body**

A U.S. Coast Guard approval number will be assigned to the equipment when the production module has been completed and will appear on the production module certificate (module D, E or F), as allowed by the "Agreement between the United States of America and the EEA EFTA states on the mutual recognition of Certificates of Conformity for Marine Equipment" signed 17 October 2005, and amended by Decision No 1/2019 dated February 22nd, 2019.

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-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.

This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV AS of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.

Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.



**LEGAL DISCLAIMER:** Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.





Job Id: 344.1-004874-6  
Certificate No: MEDB000005V  
Revision No: 5

## Product description

"Steel Bulkhead A60 with steel plate: SeaRox FB or FM 6040 stiffeners: SeaRox FM 6040, SeaRox FB or FM 6050" composed of steel bulkhead to be insulated with one of the following variants:

1. SeaRox FB or FM 6040 (density 60 kg/m<sup>3</sup>, minimum thickness 70 mm) between the stiffeners and SeaRox FM 6040 (density 60 kg/m<sup>3</sup>, minimum thickness 35 mm) around the stiffener.
2. SeaRox FB or FM 6040 (density 60 kg/m<sup>3</sup>, minimum thickness 1x35 mm) between the stiffeners and SeaRox FM 6040 (density 60 kg/m<sup>3</sup>, minimum thickness 35 mm) between and around the stiffener.
3. SeaRox FB or FM 6040 (density 60 kg/m<sup>3</sup>, minimum thickness 70 mm) between the stiffeners and SeaRox FB or FM 6050 (density 70 kg/m<sup>3</sup>, minimum thickness 30 mm) around the stiffener.

### For all variants:

- The insulation is fixed to the bulkhead by means of standard ø3 mm pins in combination with 30-38 mm diameter steel clips (spring washers).
- Distance between pins on the stiffeners is maximum 300 mm. Distance between pins on the bulkhead (between stiffeners) is maximum 300 mm.

For further details about pin-settings and design see drawings listed under Type Examination documentation below.

## Application/Limitation

Approved for use as a vertical fire retarding division of class A-60.

General application: Fire on either side.

The insulation materials and adhesives used have to be approved according to the Marine Equipment Directive and bear the Mark of Conformity. This requirement may also be applicable for surface materials used, if required by relevant rules and regulations.

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

## Type Examination documentation

Test Report No. PGA10661 dated 4 June 2015 from DBI, Hvidovre, Denmark.  
Test Report No. PGA10770A dated 5 January 2016 from DBI, Hvidovre, Denmark.

### Assessment Report Nos.:

PHD10025A dated 5 July 2021 (valid until 5 July 2026) from DBI, Hvidovre, Denmark.  
PHD10038A dated 27 October 2021 (valid until 5 July 2026) from DBI, Hvidovre, Denmark.  
PHA10631f dated 26 June 2017 (valid until 30 June 2022) from DBI, Hvidovre, Denmark.

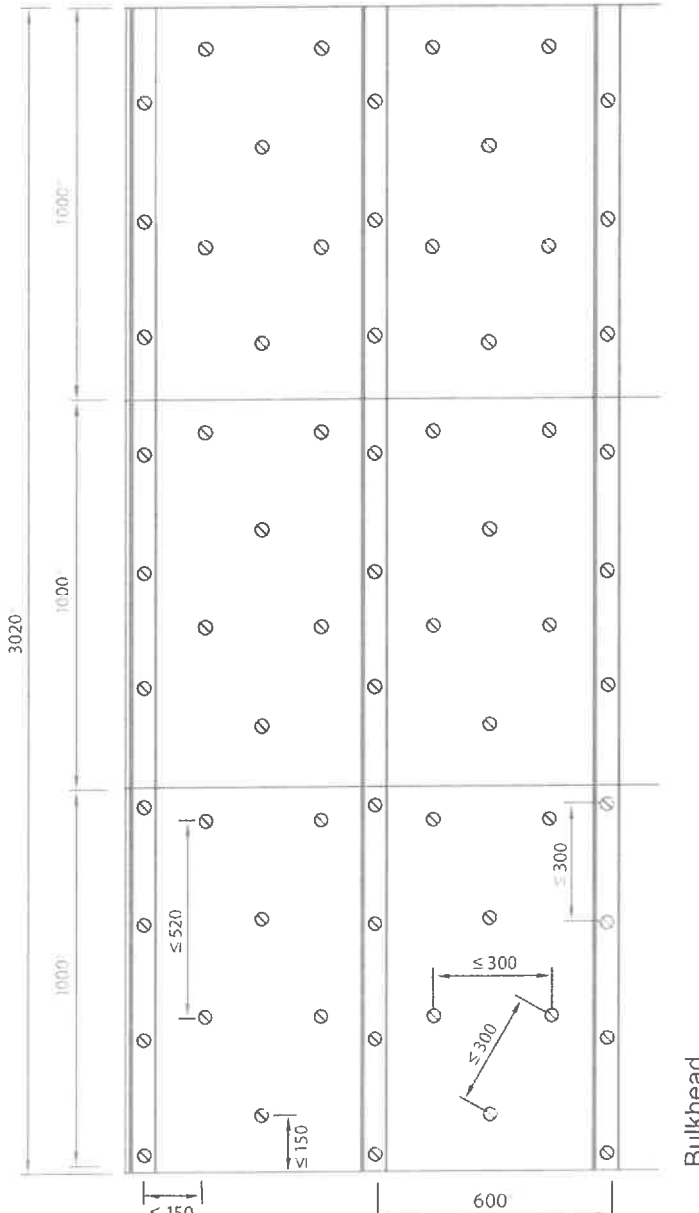
Drawing No. 100-1 dated 2 July 2015 from the manufacturer.  
Drawing No. 100-2 dated 2 July 2015 from the manufacturer.  
Drawing No. 100-3 dated 2 July 2015 from the manufacturer.  
Drawing No. 100-4 dated 2 July 2015 from the manufacturer.  
Drawing No. 100-5 dated 2 July 2015 from the manufacturer.  
Drawing No. 400-1 dated 29 July 2015 from the manufacturer.  
Drawing No. 400-2 dated 29 July 2015 from the manufacturer.  
Drawing No. 400-3 dated 29 July 2015 from the manufacturer.  
Drawing No. 400-4 dated 29 July 2015 from the manufacturer.  
Drawing No. 700-1 Rev.2 dated 25 October 2021 from the manufacturer.  
Drawing No. 700-2 Rev. 2 dated 25 October 2021 from the manufacturer.  
Drawing No. 700-3 Rev. 2 dated 25 October 2021 from the manufacturer.  
Drawing No. 700-4 Rev. 2 dated 25 October 2021 from the manufacturer.

## Tests carried out

Tested according to IMO 2010 FTP Code Part 3.

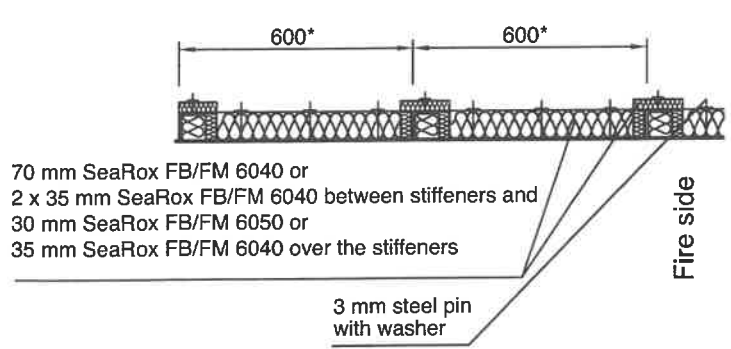
## Marking of product

The product is to be marked with name and address of manufacturer, type designation, fire technical rating, the MED Mark of Conformity and USCG Approval Number if applicable (see first page).



Bulkhead

Dimensions may vary depending on structural design and size of insulation material. All measurements in mm



70 mm SeaRox FB/FM 6040 or  
 2 x 35 mm SeaRox FB/FM 6040 between stiffeners and  
 30 mm SeaRox FB/FM 6050 or  
 35 mm SeaRox FB/FM 6040 over the stiffeners

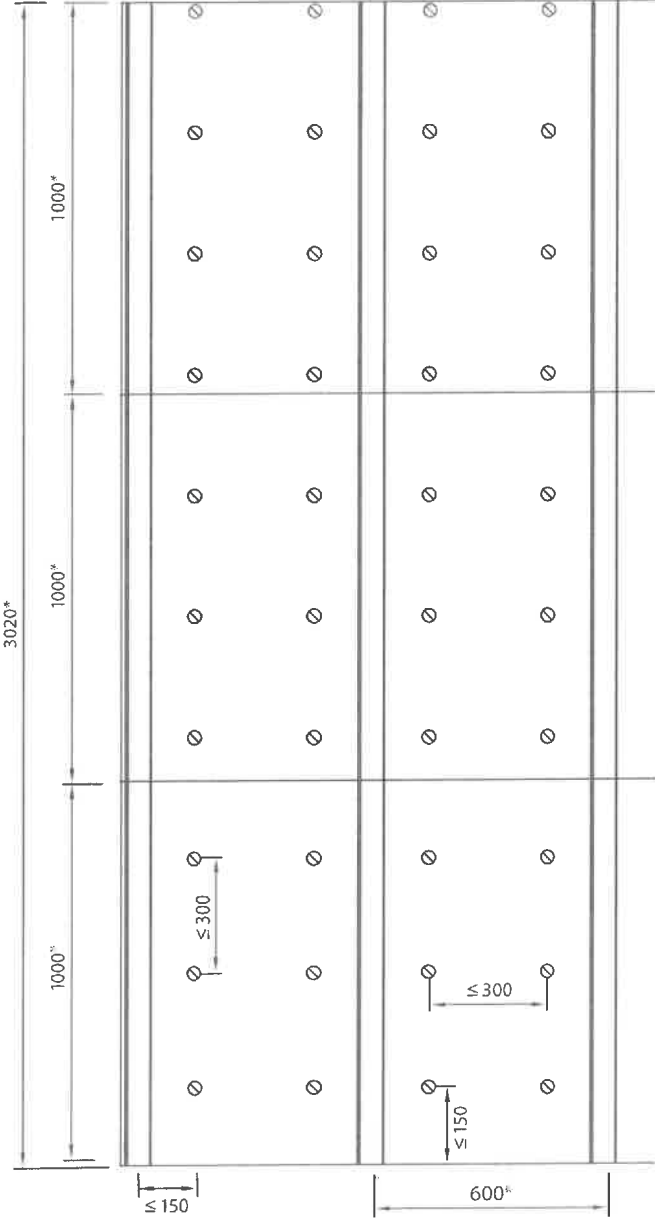
3 mm steel pin  
 with washer

Fire side



**Subject: A-60 Steel Bulkhead**  
**Plate: SeaRox FB/FM 6040**  
**Stiffener: SeaRox FB/FM 6050 or SeaRox FB/FM 6040**





Bulkhead

All measurements in mm

\* Dimensions may vary depending on structural design and size of insulation material.



**Subject: A-60 Steel Bulkhead**  
 Plate: SeaRox FB/FM 6040  
 Stiffener: SeaRox FB/FM 6050 or SeaRox FB/FM 6040

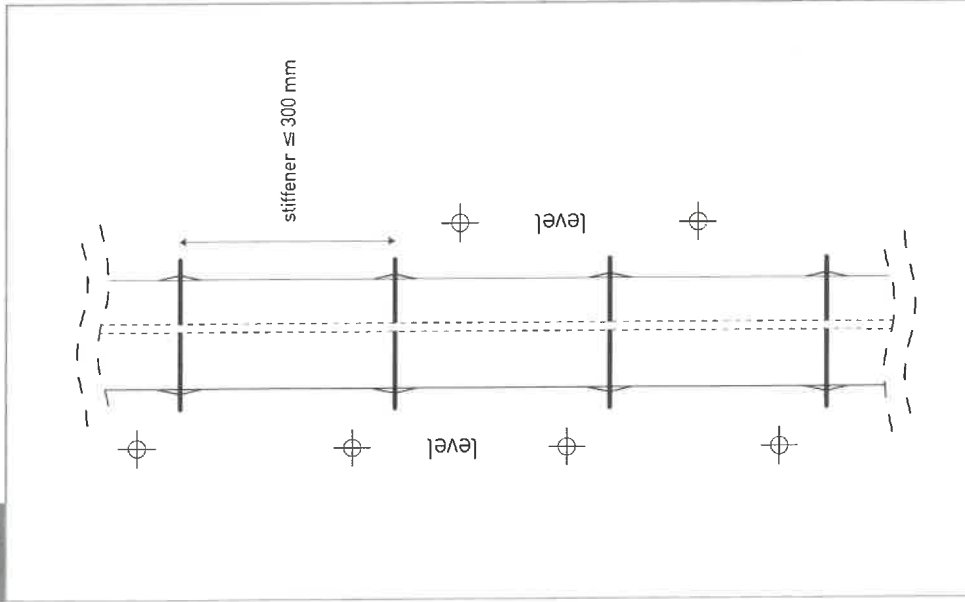
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 30 mm SeaRox FB/FM 6050 or  
 35 mm SeaRox FB/FM 6040 over the stiffeners

3 mm steel pin  
 with washer

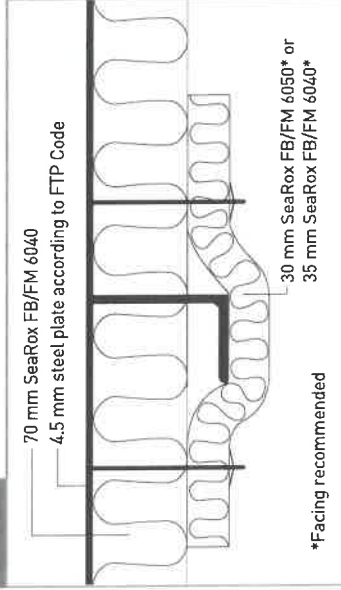
Fire side



TOP VIEW

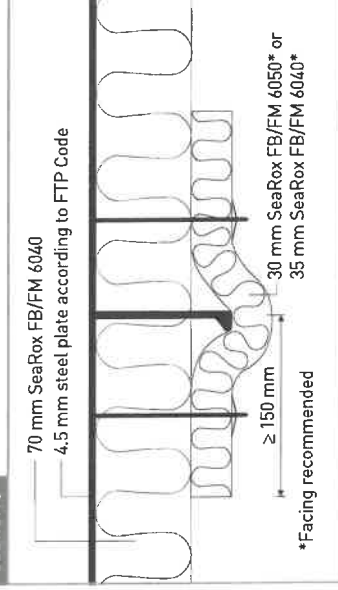


SECTION A



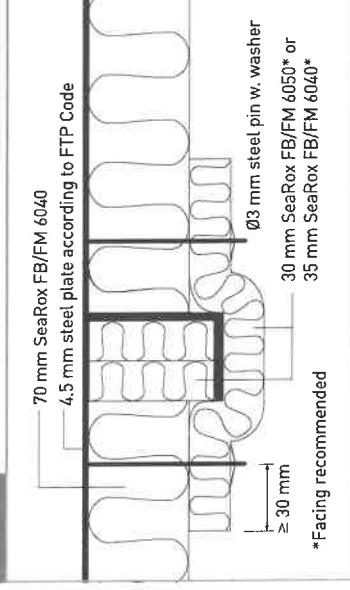
only with pin settings Drawing No. 700-2

SECTION B



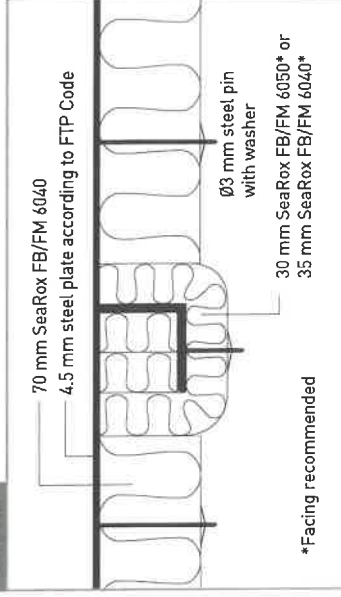
only with pin settings Drawing No. 700-2

SECTION C

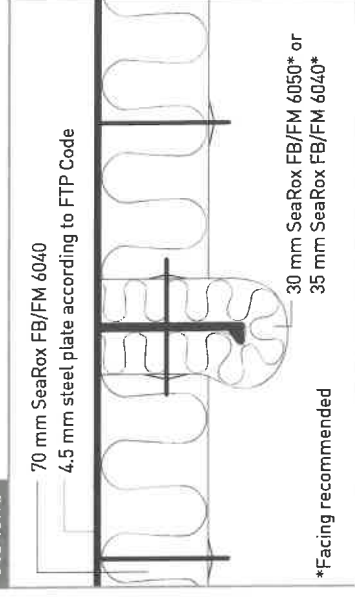


only with pin settings Drawing No. 700-2

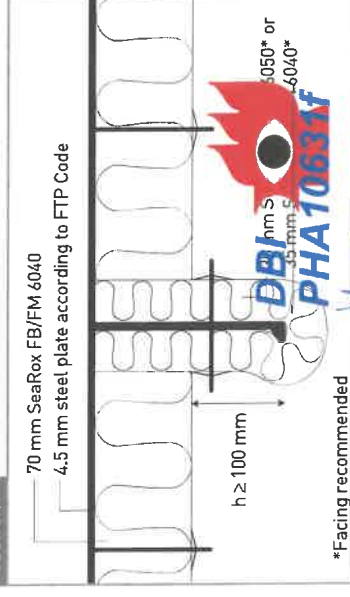
SECTION D



SECTION E



SECTION F



*Handwritten signature*



**Subject: A-60 Steel Bulkhead**  
**Plate: SeaRox FB/FM 6040**  
**Stiffener: SeaRox FB/FM 6050 or SeaRox FB/FM 6040**

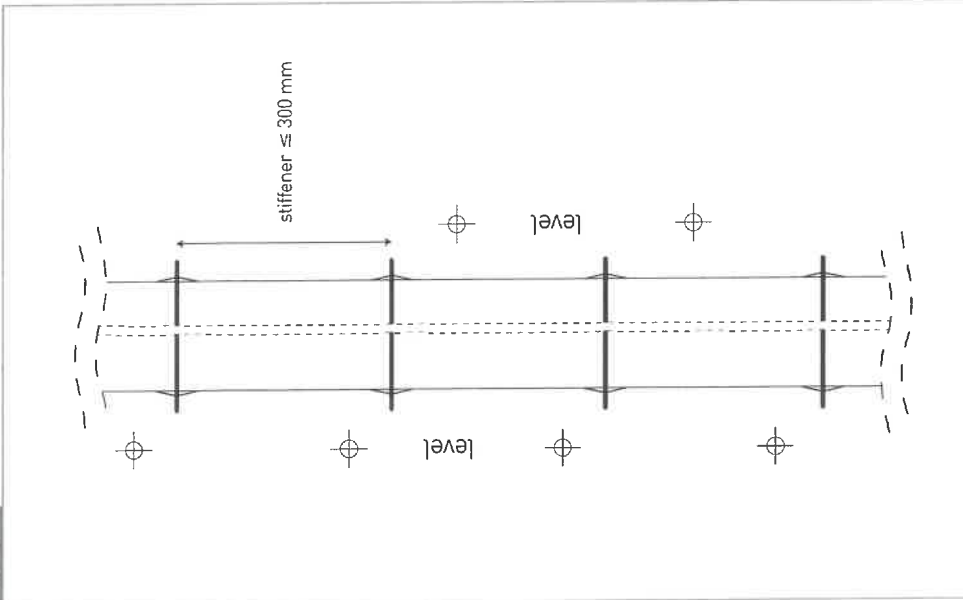
TECHNICAL INSULATION

Date: 2021/10/25

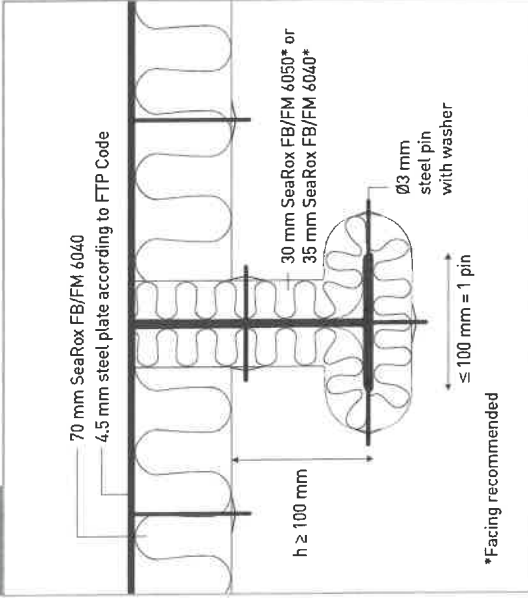
Designer: DG

Drawing No. 700-3 / Rev 2

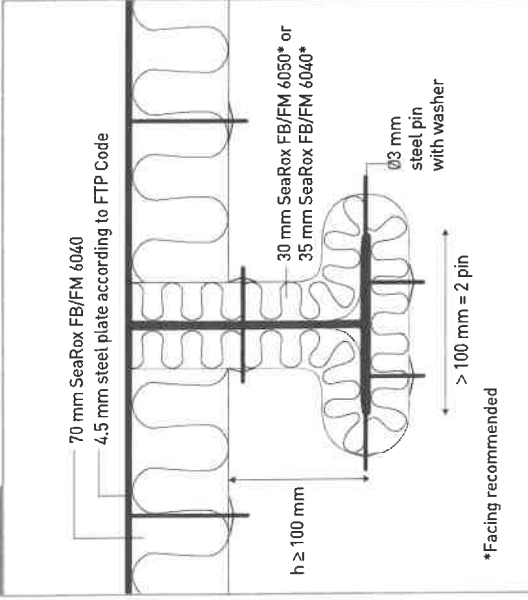
TOP VIEW



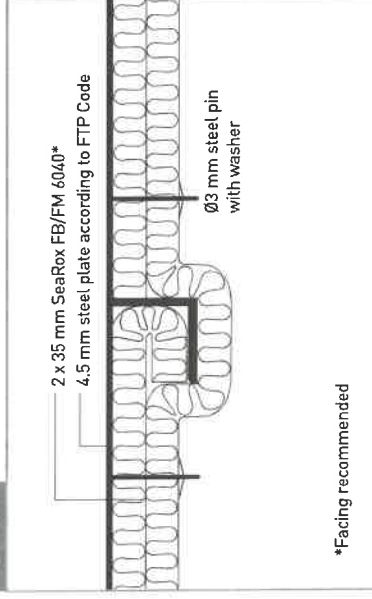
SECTION G



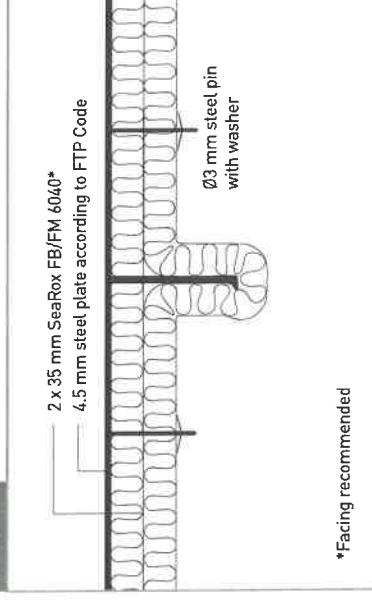
SECTION H



SECTION I



SECTION J



TECHNICAL INSULATION



**Subject: A-60 Steel Bulkhead**  
**Plate: SeaRox FB/FM 6040**  
**Stiffener: SeaRox FB/FM 6050 or SeaRox FB/FM 6040**

Date: 2021/10/25

Designer: DG

Drawing No. 700-4 / Rev 2