

# EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

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 GL AS under the authority of the Government of Norway.

**This is to certify:**

**That the "A" Class divisions, fire integrity**

with type designation(s)  
**Sika Marine A30 Class bulkhead with Visco-elastic system**

Issued to  
**Sika Services AG**  
**Zürich, ZH, Switzerland**

is found to comply with the requirements in the following Regulations/Standards:  
Regulation **(EU) 2019/1397,**  
**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.**

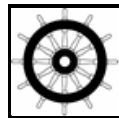
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2025-05-11.**

Issued at **Høvik** on **2020-05-12**

DNV GL local station:  
**Augsburg**

Approval Engineer:  
**Tessa Bieber**



Notified Body  
No.: **0575**

for **DNV GL AS**

**Roald Vårheim**  
**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 GL 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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 GL AS, its parent companies and subsidiaries as well as their officers, directors and employees ("DNV GL") 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: **344.1-010180-1**  
Certificate No: **MEDB000069C**

## Product description

'Sikafloor marine A30 Class bulkhead with Visco-elastic system'

Composed of a structural steel bulkhead covered with a first layer PU Red Visco-elastic adhesive (manufactured by Sika Services AG, applied amount 697 g/m<sup>2</sup>) between the stiffeners.

On this first adhesive layer steel tiles with dimensions 310/245 mm x 150 mm x 1.5 mm (w x h x thickness) were glued by another layer PU Red Visco-elastic adhesive (manufactured by Sika Services AG, applied amount 1774 g/m<sup>2</sup>) between the stiffeners. The distance between the tiles is 10 mm.

After installing the steel tiles the stiffeners are insulated with a 30 mm layer of mineral wool of type SeaRox SL620 (manufactured by Rockwool with density 100kg/m<sup>3</sup>). Between the stiffeners a layer of 50 mm of the same insulation is applied. The total cavity inside the stiffeners is insulated with 2 layers of 30 mm of the same insulation material.

The insulation material is fastened to the bulkhead with Ø3 mm steel pins with Ø38 mm washers welded to the bulkhead surface at a distance of max. c/c 160 mm lengthwise and max. c/c 290 mm across as well as along the stiffeners at max. c/c 300 mm lengthwise.

For further details see documentation listed under Type Examination documentation.

## Application/Limitation

Approved as vertical fire retardant division of Class A-30.

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 PGA14029 dated 2014-11-14 from DBI, Hvidovre, Denmark

## 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 and MED Mark of Conformity and USCG number if applicable (see first page).