



Germanischer Lloyd

# Approval Certificate

This is to certify, that the product identified below has been tested in accordance with the relevant procedures as contained in the Fire Test Procedure Code (IMO-Res. MSC.61(67)) and was found in compliance with the applicable performance criteria contained in the specified standard.

Certificate No. **44 896 - 07 HH**

Company **ROCKWOOL A/S  
Hovedgaden 584  
2640 Hedehusene, DENMARK**

Product Description **product group: class A-30 bulkhead, steel**

Product Type **Class A-30 bulkhead**

Approval Standard **- IMO Res.A.754(18)  
- IMO Res.MSC.61(67), Annex 1, Part 3**

Documents **Test report nos: see appendix page 2 and 3**

Application **The above product may be applied on ships classed with Germanischer Lloyd and on ships for which the Society is responsible for the issue of the relevant certificate required by the "International Convention for the Safety of Life at Sea, 1974" including amendments as authorized by contracting governments.**

Remarks **None**

Valid until **2012-08-07**


**The company must inform Germanischer Lloyd of any modification or changes to approved product in order to obtain a valid certificate.**

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**Hamburg, 2007-08-08**

**Germanischer Lloyd**

  
Dr. Dieter Krüger

  
Hiltraud Möhlmann

The latest edition of the General Terms and Conditions of Germanischer Lloyd is applicable.  
German law applies.

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**Product group: A-class division,  
class A-30 bulkhead, steel**

## Common International Solution:

Trade Name	Product Description	Application / Limitations	Test report
<b>Solution no 1 – A30 BH</b>  A-30 Bulkhead Steel  “Rockwool Marine Batts 45”  50 mm/25 mm	A-30 Bulkhead, Rockwool Marine Batts 45  Composed of steel bulkhead insulated on surface with minimum 50 mm mineral wool of type “Rockwool Marine Batts 45” of density 45 kg/m <sup>3</sup> between stiffeners, and minimum 25 mm around stiffeners. The bulkhead insulation is mounted with standard 3 mm steel pins and 38 mm steel clips (spring washers) at intervals of approx 300 mm.	Approved for use as a Class A-30 bulkhead.  General application.  Fire against either side.	G001148 dated 1996-09-05, DIFT
<b>Solution no 2 – A30 BH</b>  A-30 Bulkhead Steel  “Rockwool Marine Wired Mat 90”  50 mm/30 mm	A-30 Bulkhead, Rockwool Marine Wired Mat 90  Composed of steel bulkhead insulated on surface with minimum 50 mm mineral wool of type “Rockwool Marine Wired Mat 90” of density 90 kg/m <sup>3</sup> between stiffeners, and minimum 30 mm around stiffeners. The bulkhead insulation is mounted with standard 3 mm steel pins and 38 mm steel clips (spring washers) at intervals of approx 300 mm.	Approved for use as a Class A-30 bulkhead.  General application.  Fire against either side.	GV95.33.1 dated 1995-10-26, Brandversuchshaus Hamburg, Germany

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## Local National Solutions:

Trade Name	Product Description	Application / Limitations	Test report	National Country
<b>Solution no A – A30 BH</b>  A-30 Bulkhead Steel  “Rockwool Marine Firebatts 120”  50 mm/30 mm	A-30 Bulkhead, Rockwool Marine Firebatts 120  Composed of steel bulkhead insulated on surface with minimum 50 mm mineral wool of type “Rockwool Marine Firebatts 120” of density 120 kg/m <sup>3</sup> between stiffeners, and minimum 30 mm around stiffeners. The bulkhead insulation is mounted with standard 3 mm steel pins and 38 mm steel clips (spring washers) at intervals of approx 300 mm.	Approved for use as a Class A-30 bulkhead.  General application.  Fire against either side.	846002.08 dated 1997-11-27, SINTEF	Norwegian solution.  Trade name “Brannplate 110”
<b>Solution no B – A30 BH</b>  A-30 Bulkhead Steel  “Rockwool Marine Firebatts 100”  40 mm/25 mm	A-30 Bulkhead, Rockwool Marine Firebatts 100  Composed of steel bulkhead insulated on surface with minimum 40 mm mineral wool of type “Rockwool Marine Firebatts 100” of density 100 kg/m <sup>3</sup> between stiffeners, and minimum 25 mm around stiffeners. The bulkhead insulation is mounted with standard 3 mm steel pins and 38 mm steel clips (spring washers) at intervals of approx 300 mm.	Approved for use as a Class A-30 bulkhead.  General application.  Fire against either side.	96-DG-813-TO/1 dated 1997-02-24, RINA	UK, Benelux, France solution.  Trade names: “Marine Firebatt 2000”, “Marine Slab 758” and “Marine Slab 759”
<b>Solution no C – A30 BH</b>  A-30 Bulkhead Steel  “Rockwool Marine Firebatts 100”  50 mm/40 mm	A-30 Bulkhead, Rockwool Marine Firebatts 100  Composed of steel bulkhead insulated on surface with minimum 50 mm mineral wool of type “Rockwool Marine Firebatts 100” of density 100 kg/m <sup>3</sup> between stiffeners, and minimum 40 mm around stiffeners. The bulkhead insulation is mounted with standard 3 mm steel pins and 38 mm steel clips (spring washers) at intervals of approx 300 mm.  The tested bulkhead is of U-shaped boxes, 150 x 110 mm, 40 mm thick around stiffeners. Cavities inside stiffeners also filled with same mineral wool. 50 mm thick panels between boxes.	Approved for use as a Class A-30 bulkhead.  General application.  Fire against either side.  All as per the testing description. Refer to the related drawings.	G10387/6801 dated 1998-03-11, DIFT	France solution.  Trade name: “Marine Slab 759”

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**Hamburg, 2007-08-08**