

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. **44 898 - 07 HH**

Company **Rockwool International A/S
Hovedgeden 584
2640 Hedehusene, DENMARK**

Product Description **product group: class A-60 bulkhead, steel**

Product Type **Class A-60 bulkhead**

Approval Standard **- IMO Res.A.754(18)
- IMO Res.MSC.61(67), Annex 1, Part 3, IMO MSC/Circ. 1120.**

Documents **Test report nos: see appendix page 2 to 5

(GL ref.-no.: 12-020855)**

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 **2017-06-06**

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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Germanischer Lloyd


Dr. Dieter Krüger


Hiltraud Möhlmann

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**Product group: A-class division,
class A-60 bulkhead, steel**

Common International Solutions

Trade Name	Product Description	Application / Limitations	Test report
Solution no 1 – A60 BH A-60 Bulkhead Steel “SeaRox SL 620” 60 mm/25 mm	A-60 Bulkhead, SeaRox SL 620. Composed of steel bulkhead insulated with minimum 60 mm mineral wool of type “SeaRox SL 620” of density 100 kg/m ³ 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 / 400 mm, according to drawing.	Approved for use as a Class A-60 bulkhead. General application. Fire against either side.	2004 CS01428/3 dated 2004-03-04, RINA
Solution no 2 – A60 BH A-60 Bulkhead Steel “SeaRox SL 640” 2x 30 mm/30 mm	A-60 Bulkhead, SeaRox SL 640. Composed of steel bulkhead insulated with minimum two layers 30 mm mineral wool of type “SeaRox SL 640” of density 130 kg/m ³ 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, according to drawing.	Approved for use as a Class A-60 bulkhead. General application. Fire against either side.	2010CS01159/1, 25-10-2010, RINA.
Solution no 3– A60 BH A-60 Bulkhead, Steel “SeaRox SL 640” & “SeaRox WM 640” 65 mm/30 mm	A-60 Bulkhead, SeaRox SL 640 & SeaRox WM 640. Composed of steel bulkhead insulated with minimum 65 mm mineral wool of type “SeaRox SL 640 & SeaRox WM 640” of density 130 kg/m ³ between stiffeners, and minimum 30 mm mineral wool of type “SeaRox WM 640” of density 105 kg/m ³ 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, according to drawing.	Approved for use as a Class A-60 bulkhead. General application. Fire against either side.	PG 10842/8061 dated 2001-06-15, DIFT.

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<p>Solution no 4 – A60 BH</p> <p>A-60 Bulkhead Steel</p> <p>“SeaRox WM 620”</p> <p>2x 45 mm/45 mm</p>	<p>A-60 Bulkhead, SeaRox WM 620.</p> <p>Composed of steel bulkhead insulated with minimum two layers 45m mineral wool of type “SeaRox WM 620” of density 90 kg/m³ between stiffeners, and minimum 45 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, according to drawing.</p>	<p>Approved for use as a Class A-60 bulkhead.</p> <p>General application.</p> <p>Fire against either side.</p>	<p>2006CS013889-1 dated 2007-02-07.</p>
<p>Solution no 5 – A60 BH</p> <p>A-60 Bulkhead Steel</p> <p>“SeaRox WM 640”</p> <p>75 mm/35 mm</p>	<p>A-60 Bulkhead, SeaRox WM 640.</p> <p>Composed of steel bulkhead insulated with minimum 75m mineral wool of type “SeaRox WM 640” of density 105 kg/m³ 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, according to drawing.</p>	<p>Approved for use as a Class A-60 bulkhead.</p> <p>General application.</p> <p>Fire against either side.</p>	<p>2006CS013889/2 dated 2007-02-07, RINA.</p>
<p>Solution no 6 – A60 BH</p> <p>A-60 Bulkhead Steel Restricted</p> <p>“SeaRox SL 640”</p> <p>40 mm/40 mm</p>	<p>A-60 Bulkhead Restricted, SeaRox SL 640.</p> <p>Composed of steel bulkhead insulated with minimum 40 mm mineral wool of type “SeaRox SL 640” of density 130 kg/m³ 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, according to drawing.</p>	<p>Approved for use as a Class A-60 bulkhead.</p> <p>Restricted use. Only fire at the insulated side.</p>	<p>2010CS011159/3 dated 25-10-2010, RINA.</p>
<p>Solution no 7 – A60 BH</p> <p>A-60 Bulkhead Steel Restricted</p> <p>“SeaRox SL 620”</p> <p>40 mm/40 mm</p>	<p>A-60 Bulkhead, SeaRox SL 620.</p> <p>Composed of steel bulkhead insulated with minimum 40 mm mineral wool of type “SeaRox SL 630” of density 100 kg/m³ 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 / 400 mm, according to drawing.</p>	<p>Approved for use as a Class A-60 bulkhead.</p> <p>Restricted use. Only fire at the insulated side.</p>	<p>2004 CS014787 dated 2004-12-13, RINA</p>

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Local National Solutions:

Trade Name	Product Description	Application / Limitations	Test report	National Country
Solution no A – A60 BH A-60 Bulkhead, Steel “SeaRox SL 630” 80 mm/30 mm	A-60 Bulkhead, SeaRox SL 630. Composed of steel bulkhead insulated with minimum 80 mm mineral wool of type “SeaRox SL 630” of density 120 kg/m ³ between stiffeners, and minimum 30 mm around stiffeners. The insulation to be covered by galvanized wire mesh ¾ “. The bulkhead insulation is mounted with standard 3 mm steel pins and 38 mm steel clips (spring washers) at intervals of approx 300 mm, according to drawing.	Approved for use as a Class A-60 bulkhead. General application. Fire against either side.	250000.42/95.233 dated 1995-07-13 and 846000.07/97.124 dated 1997-03-07, SINTEF	Norway
Solution no B – A60 BH A-60 Bulkhead, Steel “SeaRox SL 630” & “SeaRox WM 650” 50 + 40 mm/40 mm	A-60 Bulkhead, SeaRox SL 630 & SeaRox WM 650. Composed of steel bulkhead insulated on surface with minimum 50 mm mineral wool of type “SeaRox SL 630” of density 120 kg/m ³ , and minimum 40 mm mineral wool of type “SeaRox WM 650” of density 125 kg/m ³ between stiffeners and 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-60 bulkhead. General application. Fire against either side.	22N002.40 dated 2000-12-04, SINTEF	Norway
Solution no C – A60 BH A-60 Bulkhead Steel “SeaRox SL 630” 80 mm/30 mm	A-60 Bulkhead, SeaRox SL 630. Composed of steel bulkhead insulated on surface with minimum 80 mm mineral wool of type “SeaRox SL 630” of density 120 kg/m ³ between stiffeners, and minimum 30 mm around stiffeners. The insulation is covered with 0.2 mm aluminum foil. The bulkhead insulation is mounted with standard 3 mm steel pins and 31/38 mm steel clips (spring washers) at intervals of approx 300 mm, according to drawing.	Approved for use as a Class A-30 bulkhead. General application. Fire against either side.	250000.49/95.233 dated 1995-07-17, SINTEF	Norway

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Local National Solutions:

Trade Name	Product Description	Application / Limitations	Test report	National Country
Solution no D – A60 BH A-60 Bulkhead, Steel Restricted “SeaRox WM 650” 60 mm/60 mm	A-60 Bulkhead, SeaRox WM 650. Composed of steel bulkhead insulated with minimum 60 mm mineral wool of type “SeaRox WM 650” of density 125 kg/m ³ between stiffeners, and minimum 60 mm above 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, according to drawing.	Approved for use as a Class A-60 bulkhead. Restricted use. Only fire at the insulated side.	22N002.07 dated 1998-10-12, SINTEF	Norway
Solution no E – A60 BH A-60 Bulkhead, Steel “SeaRox SL 620” 75 mm/25 mm	A-60 Bulkhead, SeaRox SL 620. Composed of steel bulkhead insulated with minimum 75 mm mineral wool of type “SeaRox SL 620” of density 100 kg/m ³ 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 250 mm, according to drawing.	Approved for use as a Class A-60 bulkhead. General application. Fire against either side.	96.DG.813.TO dated 1997-02-24, RINA	France Benelux
Solution no F – A60 BH A-60 Bulkhead, Steel “SeaRox WM 620” 90 mm/30 mm	A-60 Bulkhead, SeaRox WM 620. Composed of steel bulkhead insulated with minimum 90 mm mineral wool of type “SeaRox WM 620” of density 90 kg/m ³ 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, according to drawing.	Approved for use as a Class A-60 bulkhead. General application. Fire against either side.	GV95.34.1 dated 1995-10-26 Brandversuchshaus Hamburg, Germany	Germany

Previous trade names:

Rockwool Marine Batts 27 - 55
 Rockwool Marine Slabs 55 – 300
 Rockwool Marine Firebatts 100 - 150
 Rockwool Marine Wired Mats 35 – 150
 Rockwool Marine Lamella Mats 32 – 45
 Rockwool Pipe Sections

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