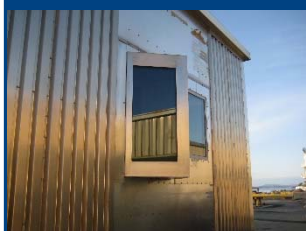
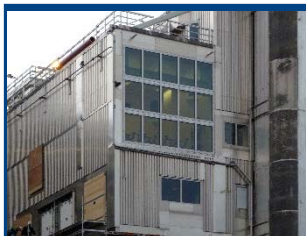




Data sheet and DNV and RMRS certificate

Hinged door type HB-5000/HB-5000DD



External heavy duty (A-60)

HB-5000 HINGED DOOR, SINGLE / HB-5000DD HINGED DOOR, DOUBLE

A door for the harshest environments.
Door leaf with reinforcements.

Door leaf:

Reinforcement plates for hinges, door closer and panic device are provided and welded on the inside of the door leaf.

Door frame:

The profile of the frame is L-shaped mild or stainless steel with adjustable frame for gasket. The door frame is delivered suitable for bolting or welding.

Hinges:

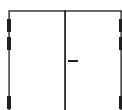
The bottom part of the hinges is welded to the frame and the top part is screwed to the door leaf with 3 screws on each hinge. The hinges are provided with stainless steel washers between the top and bottom parts to reduce friction.



Panic Bar



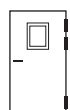
SINGLE DOOR



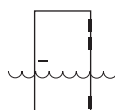
DOUBLE DOOR



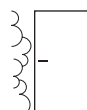
PANIC BAR



VISION PANEL



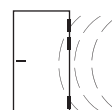
SEMI WATERTIGHT



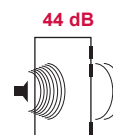
GAS-TIGHT



PNEUMATIC OPER-
ATED HINGE DOOR



BLAST



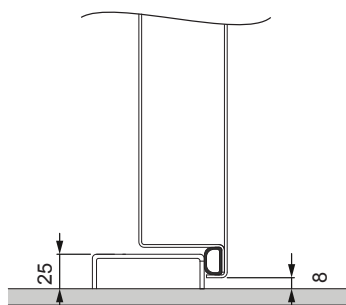
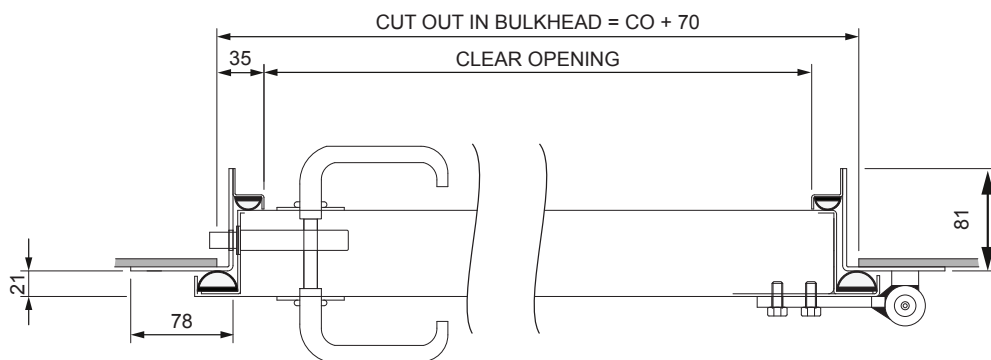
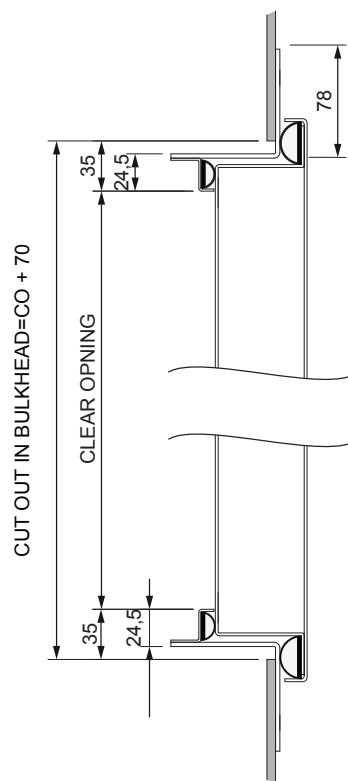
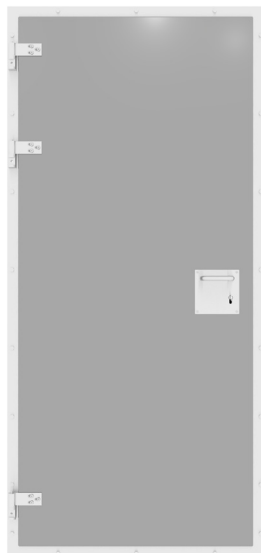
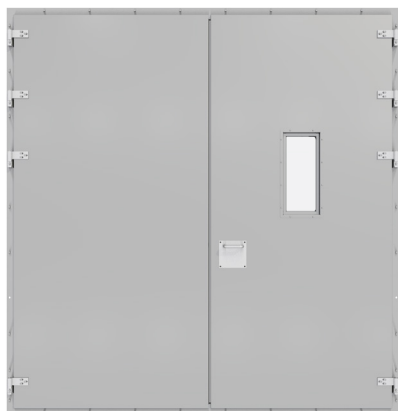
SOUND
REDUCTION

44 dB

Description	HB-5000	HB-5000DD (double)
Fire Class	A-60	A-0/A-30/A-60
Door leaf	2 mm (alt. 3 mm) painted mild steel or stainless steel	2 mm (alt. 3 mm) painted mild steel or stainless steel
Frame	3 mm (alt. 4 or 5 mm) L-shaped painted steel or stainless steel	3 mm (alt. 4 or 5 mm) L-shaped painted steel or stainless steel
Thickness of door leaf	64 mm	64 mm
Hinges	3ea special design stainl. steel with grease nipples	3ea special design stainl. steel with grease nipples
Core material	ceramic fibre	A-60 ceramic fibre
Weight (800x2000 mm)	120 kg	Weight depends on size
Sound reduction	RW = 44 dB	RW = 40 dB (with gasket)
Air and gas tightness	0.4 m3/hm2 at 50 Pa	0.2 m3/hm2 at 50 Pa
Water column	2 m without reinforcement	
from hinge side	4.5 m with reinforcement	
Application	Internal/External A-doors	Internal/external
Options	Heating cable, pirate lock, horisontal or vertical panic bar. Automatic 3 point lock for passive leaf (double door)	

HB-5000 A-60

TECHNICAL DETAILS



15.04.15

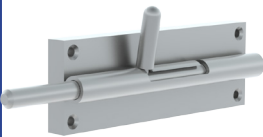
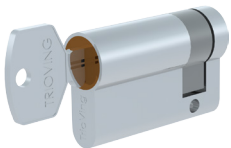

With reservation for errors and with rights to make technical changes.
Dimensions as guidelines only! For project specific information, always refer to project drawings and not the dimensions in this manual.



0575

Parts for HB-5000 hinged doors

	Part. No. 18009	Description Gasket in sill Material: SILICON Manufacturer: Information: 18x24		Part. No. 40054/ 40055	Description Lock case Material: Manufacturer: MSL 1951 Information:
	Part. No. 18001	Description Gasket Material: SILICON Manufacturer: Information: 14x20		Part. No. 40050/ 40051 + 40056/ 40057	Description 3 point lock cases Material: SS Manufacturer: MSL 1953/ 1951-1953 Information: Option Center + Upper + lower
	Part. No. 18002	Description Gasket Material: SILICON Manufacturer: Information: 18x30		Part. No. 40351	Description Automatic doorcloser Material: Mix Manufacturer: Dorma ED 250 LE Information: Option. Without cover
	Part. No. 40339	Description Door closer Material: Manufacturer: DORMA TS83/EN7 Information: 293x47.5x60MM		Part. No. 26112	Description Hinge Material: SS Manufacturer: NORAC Baggerød Information:
	Part. No. 40122/ 40123	Description Handle with escutcheon Material: SS Manufacturer: TV/GLUTZ 5064 Information: 180 x 180 x 89mm		Part. No. 40126	Description Handle with escutcheon, blind Material: SS Manufacturer: TV/GLUTZ 5064 Blind Information: 180 x 180 x 89mm

	Part. No.	Description
	41002	Shoot bolt Material: SS Manufacturer: Information: 180x60x5mm Double doors
	40059	Cylinder Material: SS Manufacturer: TV-5506, 39mm Information: Option
	40068	Cyl. / Thumb turn Material: SS Manufacturer: TV-5511, 88mm Information: Option
	41014	Pirate lock Material: Manufacturer: Information: Option
	59220/ 59221	Panic bar Material: SS Manufacturer: Information: Option
	59504	Wind chain kit Material: SS Manufacturer: Baggerod as Information: Option

	Description										
	40341 Earth wire Material: Manufacturer: Information: Option										
	40234 Pushpad Material: Manufacturer: Information: Option (Glutz)										
	42117 Automatic flush (Lock) bolt Material: AISI 316L Manufacturer: Information: Option, double doors										
	Vision panel (Option) Pilkington Pyrostop® Type 60-201 For external application (meets 60 minutes insulation and integrity) Multilaminated fire resistant glass of Pilkington Optiwhite™ with intumescent layers and safety interlayer <table> <tr> <td>Thickness</td><td>appr. 27mm (+/-2mm)</td></tr> <tr> <td>Weight</td><td>appr. 63kg/m²</td></tr> <tr> <td>Light transmittance</td><td>appr. 86%</td></tr> <tr> <td>Sound reduction-index $R_w(c/c_{tr})$</td><td>appr. 41(-1/-3) dB</td></tr> <tr> <td>U_g – value</td><td>appr. 4,8W/m²K</td></tr> </table>	Thickness	appr. 27mm (+/-2mm)	Weight	appr. 63kg/m²	Light transmittance	appr. 86%	Sound reduction-index $R_w(c/c_{tr})$	appr. 41(-1/-3) dB	U_g – value	appr. 4,8W/m²K
Thickness	appr. 27mm (+/-2mm)										
Weight	appr. 63kg/m²										
Light transmittance	appr. 86%										
Sound reduction-index $R_w(c/c_{tr})$	appr. 41(-1/-3) dB										
U_g – value	appr. 4,8W/m²K										
	Insulation: FireMaster® 607® FireMaster 607 Blanket is a flexible high temperature insulating fiber blanket made using Thermal Ceramics patented low biopersistent fiber Superwool 607 chemistry. FireMaster 607 Blanket is monitored by Underwriters Laboratories Follow-Up Service providing reassurance that materials supplied to job sites meet the same exacting standards as those supplied for critical fire testing. FireMaster 607 Blanket is tested and listed by UL, Factory Mutual, and other third party labs for hydrocarbon fire (ASTM E1529) and cellulous fire (ASTM E119) For more info see separat Infosheet.										



DET NORSKE VERITAS

EC TYPE EXAMINATION CERTIFICATE

Application of: Council Directive 96/98/EC of 20 December 1996 on Marine Equipment as amended by directive 2012/32/EU, issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Directorate. This Certificate is issued by Det Norske Veritas under the authority of the Government of the Kingdom of Norway.

CERTIFICATE NO. **MED-B-8873**

This is to certify that the
Fire Doors

with type designation(s)
A-60 Hinged Door, Type HB-5000

Issued to
NORAC Baggerød AS
HORTEN, Norway

is found to comply with the requirements in the following Regulations/Standards:
Annex A.1, item No. A.1/3.16 and Annex B, Module B in the Directive. SOLAS 74 as amended, Regulation II-2/and IMO FTP Code

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

Høvik, 2014-03-03
for **Det Norske Veritas AS**




This Certificate is valid until
2019-03-03


Marianne Strand Valderhaug
Head of Department

Notified Body No.: **0575**

DNV local office:
Sandefjord


Rolf Emilsen
Surveyor



The Certificate is subject to terms and conditions overleaf. Any significant changes in design or construction of the product, or amendments to the Directive or Standards referenced above may render this Certificate invalid. The product liability rests with the manufacturer or his representative in accordance with Council Directive 96/98/EC, as amended. The Mark of Conformity may only be affixed to the product and a Declaration of Conformity may only be issued when the production/product assessment module referred to in the council directive, is fully complied with.



Certificate No.: MED-B-8873
Item No.: A.1/3.16
Job Id.: 344.1-004265-1

Product description

"A-60 Hinged Door, Type HB-5000"

Single leafed hinged door with doorblades made of 2,0 mm steel sheets and an insulating core of 38+25 mm "Firemaster 607" of nominal density 96 kg/m³, and reinforced inside vertically with two stiffeners (40 x 20 x 2 mm).

Total doorblade thickness 64 mm.

The door frame is composed of 3 mm steel profile and may bolted, M8 x 30 c/c 300mm, or welded to the bulkhead.

The door is fitted with four hinges and a 3-point lock system.

For further details see test report and drawing mentioned under Type Examination documentation below.

Application/Limitation

The door is approved for installation in steel bulkheads of class A-60. Installation of the door in bulkheads made of other materials (aluminium, FRP, etc.) are subject to case-by-case approval.

Max. clear opening: 1100 x 2500 mm (W x H).

Max size of door leaf: 1140 x 2540 mm (W x H).

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.PGA10366 Serial No. 14298 dated 7 January 2014 from DIFT, Copenhagen, Denmark.

Drawing: 18410-001, Rev. 2 from manufacturer.

Tests carried out

Tested according to IMO 2010 FTP Code part 3.

Marking of product

The product is to be marked with name of manufacturer, type designation and fire-technical rating, Mark of Conformity and USCG approval (see below).

Mark of Conformity

The manufacturer is allowed to affix the Mark of Conformity according to Article 11 in the Council Directive 96/98/EC on Marine Equipment and shall issue a Declaration of Conformity, only when the module D or E or F of Annex B in the same directive is fully complied with.

Module D: The quality system for production and testing shall be approved by the Notified Body.

Module E: The quality system for inspection and testing shall be approved by the Notified Body.

Module F: Compliance of the products to type as described in this EC Type-Examination Certificate must be verified by the Notified Body who also shall issue a of Certificate Conformity.

USCG Approval

An 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.



Certificate No:
MED-B-9472
Item No:
A.1/3.16
Job Id:
344.1-002260-3

EC TYPE EXAMINATION CERTIFICATE

Application of: Council Directive 96/98/EC of 20 December 1996 on Marine Equipment as amended by directive 2012/32/EU, issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Directorate. This Certificate is issued by DNV GL under the authority of the Government of the Kingdom of Norway.

This is to certify:

That the Fire Doors

with type designation(s)
A-60 Double Leaf Hinged Door, Type HB5000 DD

Issued to

NORAC Baggerød AS
HORTEN, Norway

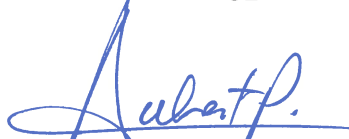
is found to comply with the requirements in the following Regulations/Standards:
Annex A.1, item No. A.1/3.16 and Annex B, Module B in the Directive. SOLAS 74 as amended, Regulation II-2/and IMO FTP Code

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

Høvik, 2014-11-14
for DNV GL




This Certificate is valid until
2019-11-14

for 
Marianne Strand Valderhaug
Head of Department

Notified Body No.: **0575**

DNV GL local office:
Sandefjord


Martin Gjølstad
Surveyor



The Certificate is subject to terms and conditions overleaf. Any significant changes in design or construction of the product, or amendments to the Directive or Standards referenced above may render this Certificate invalid. The product liability rests with the manufacturer or his representative in accordance with Council Directive 96/98/EC, as amended. The Mark of Conformity may only be affixed to the product and a Declaration of Conformity may only be issued when the production/product assessment module referred to in the council directive, is fully complied with.

Certificate No: **MED-B-9472**
Item No: **A.1/3.16**
Job Id: **344.1-002260-3**

Product description

"A-60 Double Leaf Hinged Door, Type HB5000 DD"
double leafed hinged door with doorblade composed of 2,0 mm steel sheets and an insulating core of 38+25 mm "Firemaster Blanket 607" of nominal density 96 kg/m³.

Total doorblade thickness 64 mm.

The door frame is composed of 3 mm steel profile and may bolted, M8 x 30 c/c 300mm, or welded to the bulkhead.

Each door leaf is fitted with four hinges. The active door leaf is fitted with a three point lock, while the non active door leaf is fitted with two bolt locks.

For further details see drawing in test report mentioned under Type Examination documentation.

Application/Limitation

The door is approved for installation in steel bulkheads of class A-60. Installation of the door in bulkheads made of other materials (aluminium, FRP, etc.) are subject to case-by-case approval.

Max. clear opening 2500 x 2800 mm (W x H).

The door leaf sizes: Active door: 1350 x 2900 mm (W x H).
Non active door: 1240 x 2900 mm (W x H).

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.PG 12118 Serial No. 12244 dated 13 December 2009 from DIFT, Copenhagen, Denmark.

Tests carried out

Tested according to IMO FTPC Part 3 and in compliance with IMO 2010 FTP Code Ch. 8.

Marking of product

The product is to be marked with name of manufacturer, type designation and fire-technical rating, Mark of Conformity and USCG approval (see below).

Mark of Conformity

The manufacturer is allowed to affix the Mark of Conformity according to Article 11 in the Council Directive 96/98/EC on Marine Equipment and shall issue a Declaration of Conformity, only when the module D or E or F of Annex B in the same directive is fully complied with.

Module D: The quality system for production and testing shall be approved by the Notified Body.

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mamo