



Libra[™]

MARINE DOORS

PROTECTING PEOPLE AND VALUES

5



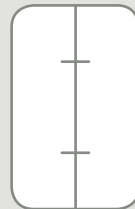
DOORS

19



HATCHES

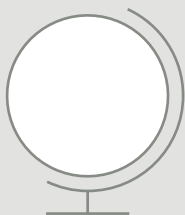
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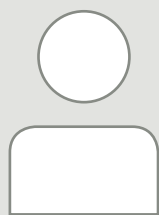
STORAGE

When vessels are battered by ocean storms, ship doors from Libra protect the crew and passengers on board. Only the best quality and the safest solutions are good enough for our doors.

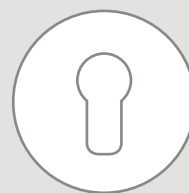
Our vision of 'Protecting people and values' is mirrored in every single detail.



WORLDWIDE



TRUST



ACCESSORIES

23

25

26

Libra on the seven seas

More than 70% of the earth's surface is covered by oceans. These serve as fairways for countless ships and a workplace for millions of people.

WORLD LEADER IN SHIP DOORS

Through innovative products, Libra has remained an important supplier to the world's maritime industry for 60 years.

Ship doors are Libra's primary focus area and the company is a world leader in this sector. Libra supplies all types of vessels with a complete range of IMO-compliant, hinged, external and internal bulkhead doors made of steel, aluminium or composite materials.

All door types are visualized by 3D models and drawings. A complete set of accurate drawings accompanies all quotes.

The high quality and innovative solutions behind Libra ship doors are the result of the close cooperation with our customers.

Ensuring safety and protecting property on board are our most important objectives. 'Libra - protecting people and values' is the motto we live by. As a result, the most advanced/high-tech ships built today are equipped with Libra doors. Our business is based on a long-term, global perspective and we have production facilities on several continents. Our network of agents ensures that we are represented in most shipbuilding markets worldwide and our service team is at hand to assist you whenever necessary.

Feel free to visit our website or contact our head office or an agent near you.





MANUFACTURER : LUBRA-PLAST AS NO
DIN CERTIFICATE : 2-8538 / B-8011 /
CERTIFICATE NO : MED-B-4004
DOOR NO : 12756
TYPE DESIGNATION : LUBRA-PLAST FIRE
FIRE RATING : AD
0575/1

EMERGENCY EXIT
KEEP CLEAR

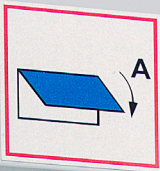


DOORS

Libra doors have been developed over many years and thoroughly tested on board vessels of different types. Feedback from experienced mariners has enabled us to optimize the functionality and design of all of our doors.

LIBRA DOORS - PROTECTING PEOPLE AND VALUES

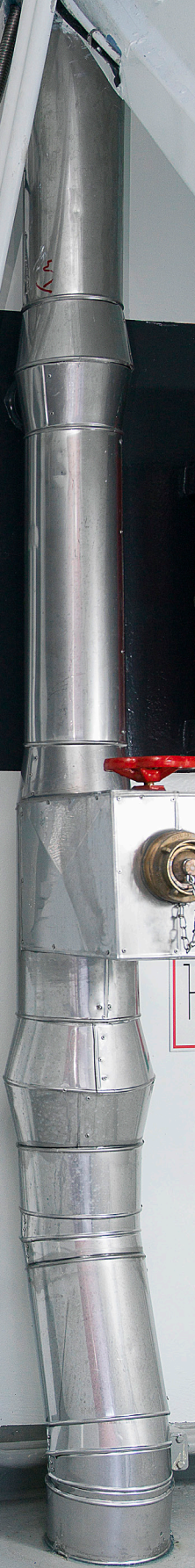




6001 CORRIDOR



TO BE KEPT CLOSED DURING
HANDLING OF FLAMMABLE CARGO



WR/SR DOORS

Doors made of steel, stainless steel or aluminium.
Approved by international classification societies.

SPRAYTIGHT / WEATHERTIGHT / WATERTIGHT

- Moving parts made of high quality stainless steel
 - Adjustable moving parts
 - Flat or angle profile frame
- Single-toggle, quick-acting or wheel-operated locking system
 - 100 or 30 mm corner radius
 - Double doors available
 - Size according to request
- Surface treatment on request
- Thermal insulation on request



A WIDE RANGE OF ACCESSORIES AVAILABLE



WR/SR HATCHES AVAILABLE



3020 AC ROOM

WARNING
DO NOT OPEN
DOOR
WHILE
POWERED
ON
ELECTRIC
SHOCK
Hazard
6025142



WR-A0 DOORS

Doors made of steel or stainless steel, fire class A0.
Approved by international classification societies.

SPRAY- / WEATHER- / WATERTIGHT / FIRE CLASS A0

- Moving parts made of high quality stainless steel
 - Adjustable moving parts
 - Flat or angle profile frame
- Quick-acting or wheel-operated locking system
 - 100 or 30 mm corner radius
 - Double doors available
 - Size according to request
- Surface treatment on request
- Thermal insulation on request



A WIDE RANGE OF ACCESSORIES AVAILABLE



WR-A0 HATCHES AVAILABLE



3017 LOCKER ROOM

TO BE KEPT CLOSED DURING
HANDLING OF FLAMMABLE CARGO

WR-A60 DOORS

Doors made of steel or stainless steel, fire class A60.
Approved by international classification societies.

SPRAY- / WEATHER- / WATERTIGHT / FIRE CLASS A60

- Moving parts made of high quality stainless steel
 - Adjustable moving parts
 - Flat or angle profile frame
- Quick- acting or wheel-operated locking system
 - 100 or 30 mm corner radius
 - Double doors available
 - Size according to request
 - Surface treatment on request

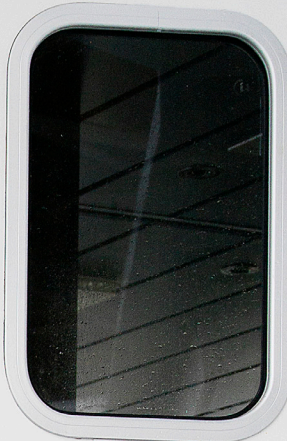


A WIDE RANGE OF ACCESSORIES AVAILABLE



WR-A60 HATCHES AVAILABLE

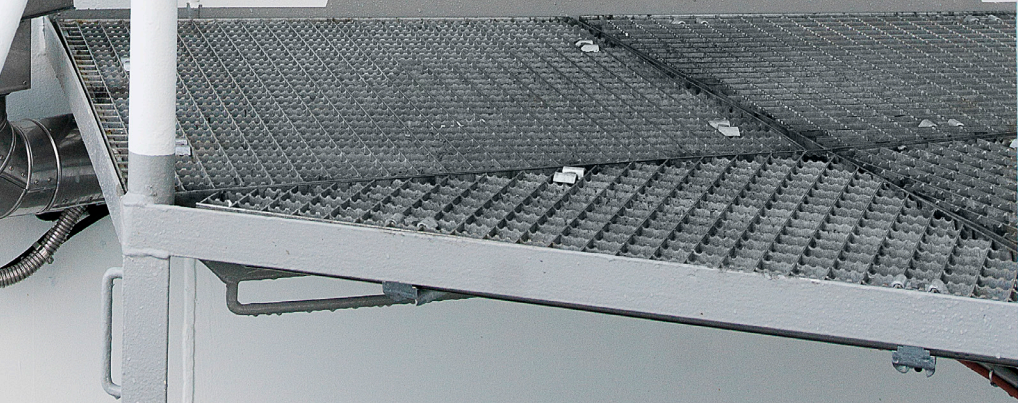
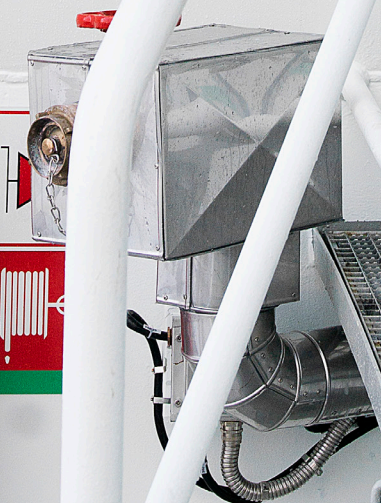
8002 BRIDGE DECK



Restricted area



Authorised personnel only



WTD/ISD DOORS

Doors made of heavy duty, lightweight composite material.
Approved by international classification societies.

SPRAY- / WEATHERTIGHT / LIGHTWEIGHT

- Door panel of sandwiched GRP – insulated
- White coating – custom colour on request
 - Flat, angle or T-shape frame
- Frame of steel, stainless steel or aluminium
 - A wide range of suitable sizes available
 - Tailored sizes possible
- Moving parts made of high quality stainless steel
 - Adjustable moving parts
 - Double doors available
- Single-toggle or quick-acting locking system
 - 100 or 30 mm corner radius



A WIDE RANGE OF ACCESSORIES AVAILABLE



GRP HATCHES AVAILABLE



HSC DOORS

Doors made of lightweight composite material.
Approved by international classification societies.

SPRAY- / WEATHERTIGHT / LIGHTWEIGHT

- Door panel of sandwiched GRP or aluminium – insulated
 - White coating – custom colour on request
 - Frame of steel, stainless steel or aluminium
- Moving parts made of high quality stainless steel
 - Double doors available
- Single-toggle or quick-acting locking system
 - Rounded or angled corners
 - Size according to request
- Long service life and low maintenance



A WIDE RANGE OF ACCESSORIES AVAILABLE



HSC HATCHES AVAILABLE



AC DOORS

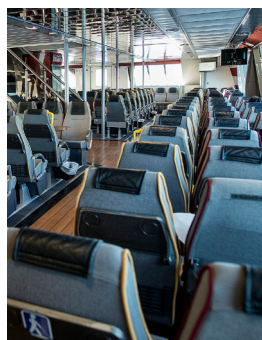
Lightweight accommodation doors.

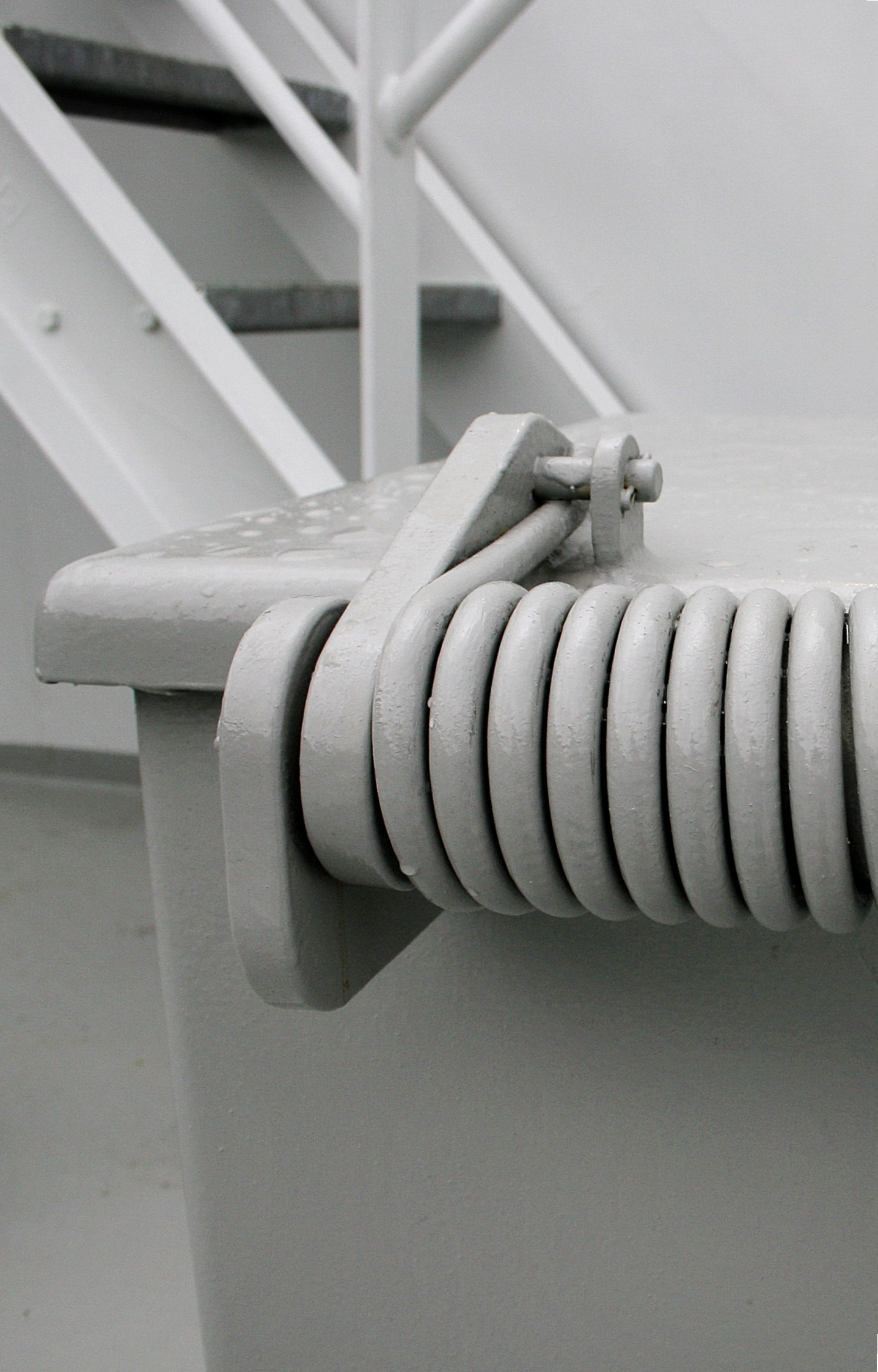
ACCOMMODATION / LIGHTWEIGHT

- Noncombustible
- Aluminium frame
- Rounded or angled corners
 - Sill or no sill
- Colour on request
- Double doors available
- Size according to request



A WIDE RANGE OF ACCESSORIES AVAILABLE







HATCHES

The safety of seafarers is our most important concern.
We therefore supply a wide range of hatches based on the same specifications as our WR/SR, ISD/WTB and HSC doors. We offer our own series of escape hatches, flush hatches and manholes as well as many different customized products manufactured on request.
With our motto of 'Protecting people and values', it comes as no surprise that the quality is in the details.

A WIDE RANGE OF LOCKING SYSTEMS AND SIZES

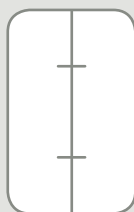


A WIDE RANGE OF ACCESSORIES AVAILABLE



FOR FURTHER INFORMATION, GO TO WWW.LIBRA.NO





STORAGE

Safe storage means better all-round safety. We supply a broad range of GRP-sandwich cabinets and containers that can be used for storing survival suits, lifejackets, fire hoses, fire extinguishers, fire-fighter equipment, first-aid equipment, stretchers, etc. Each unit is specifically adapted to whatever needs to be stored. In addition we can also supply the units with Ex-approved electric lighting and heating specially suited to ship and offshore purposes. Tell us what you need and we will help you to select a solution to cover your requirements.

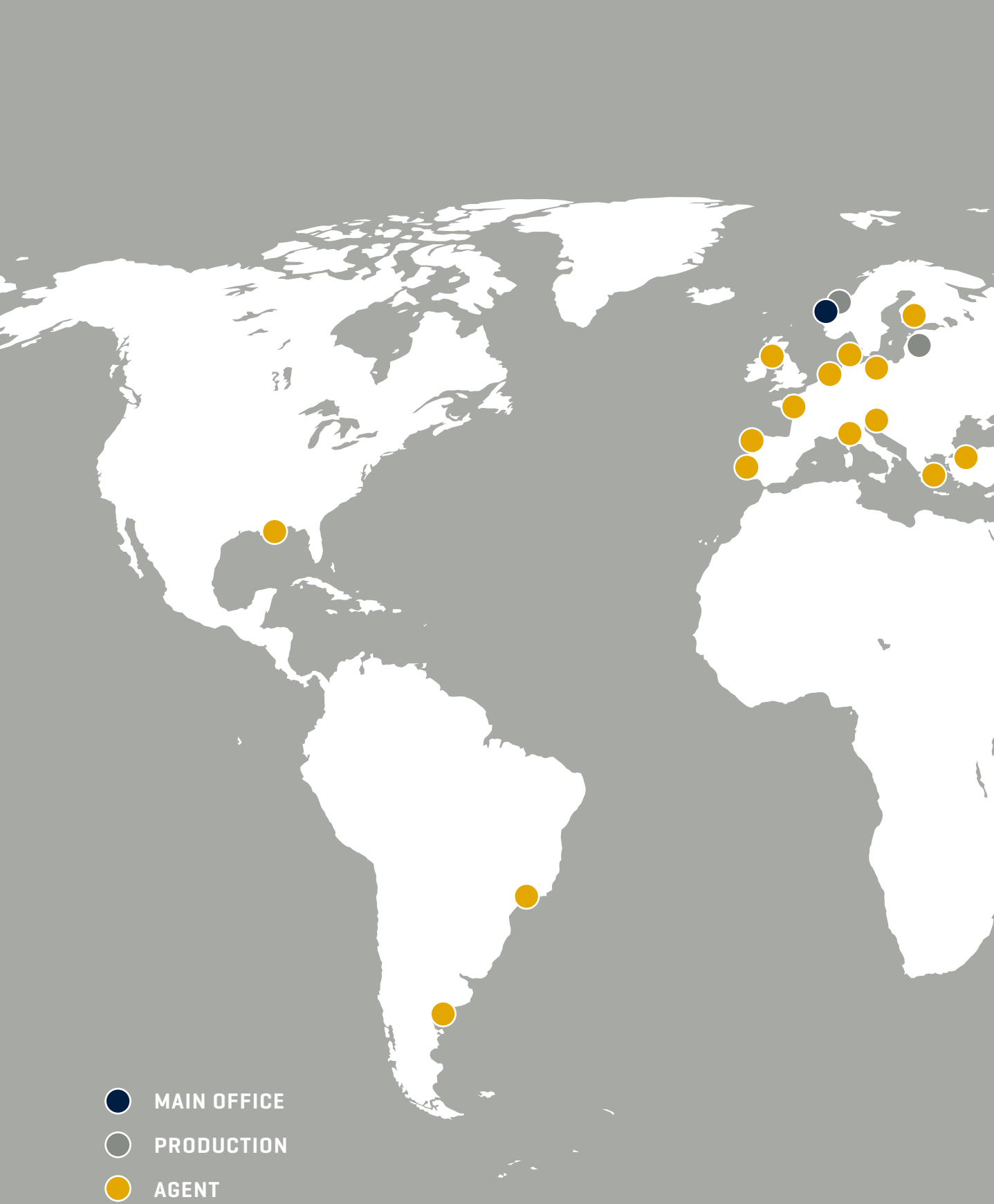
LIGHTWEIGHT, LONG SERVICE LIFE, LOW MAINTENANCE



A WIDE RANGE OF ACCESSORIES AVAILABLE



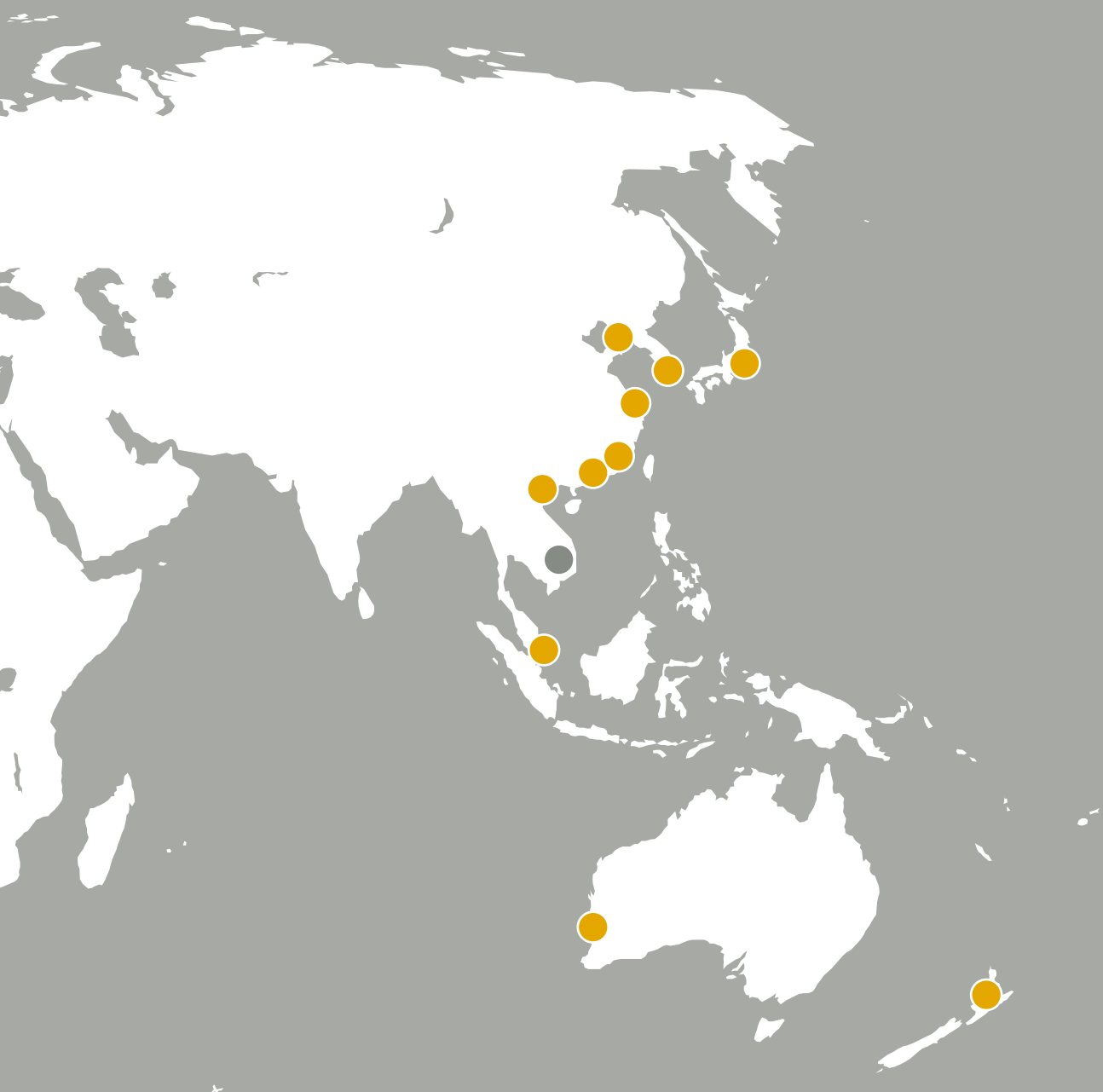
FOR FURTHER INFORMATION, GO TO WWW.LIBRA.NO



'Libra' is a globally known and highly esteemed brand name in maritime circles. Libra ship doors and hatches have been used by shipbuilders in Norway and abroad since the 1970's. Vessels still in service from those years still have their quality doors and hatches from Libra intact.

Today, Libra is globally represented in all major seafaring nations.

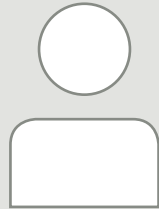
See our website for contact information: www.libra.no.



Libra worldwide

PROTECTING PEOPLE AND VALUES





TRUST

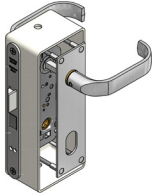

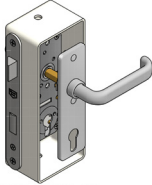
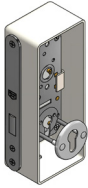
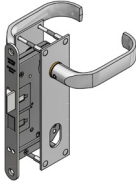

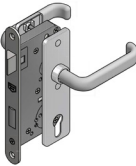
Years of experience is a testimony to our unique knowledge and expertise. We act as your partner and provide first-rate support before, during and after the commissioning of a project. Our service team is at hand to assist you – worldwide – whenever necessary.


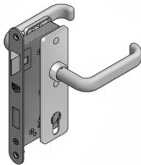
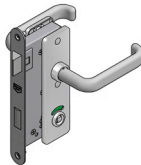
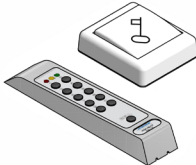
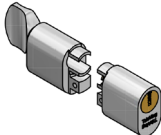
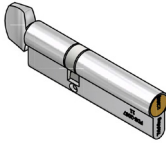





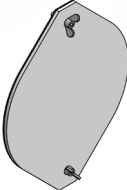
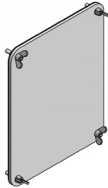
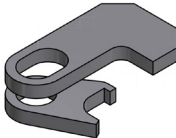
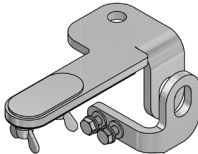

ACCESSORIES

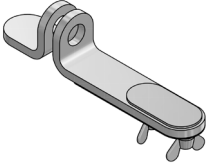

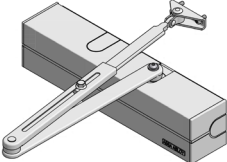
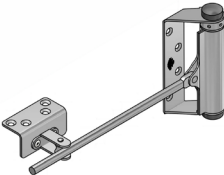
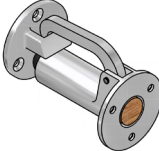
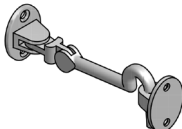
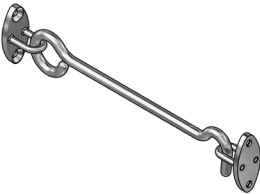
All Libra doors come with accessories that are based on years of use at sea.

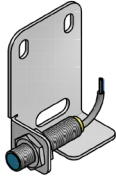
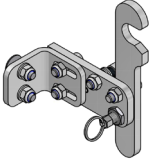
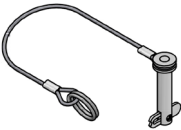

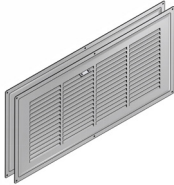
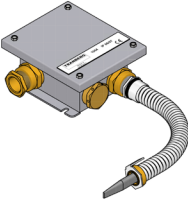
CARE IN EVERY DETAIL

ITEM	WR/SR	WR-A0	WR-A60	WTD/ISD	HSC	AC
 <p>TV 5312 Lock w. Cassette</p>	X			X		
 <p>TV 5341 Lock w. Cassette</p>	X	X	X	X		
 <p>GSV 3801 Z Lock w. Cassette</p>	X			X		
 <p>GSV 3801 ZR Lock w. Cassette</p>	X	X	X	X		
 <p>TV 5312 Lock</p>					X	
 <p>TV 5341 Lock</p>					X	
 <p>GSV 3801 Z Lock</p>					X	

ITEM	WR/SR	WR-A0	WR-A60	WTD/ISD	HSC	AC
 <p>GSV 3801 ZR Lock</p>					X	
 <p>GSV 5696 Z Lock</p>						X
 <p>GSV 5696 WC Lock</p>						X
 <p>Electronic Lock</p>	X	X	X	X	X	
 <p>Cylinder & Thumb Turn for TV Locks</p>	X	X	X	X	X	
 <p>Cylinder & Thumb Turn for GSV Locks</p>	X	X	X	X	X	X
 <p>Cylinder Cap for Gas & Watertight Doors</p>	X	X	X	X	X	

ITEM	WR/SR	WR-A0	WR-A60	WTD/ISD	HSC	AC
 <p>Porthole</p>	X	X	X	X	X	X
 <p>Window</p>	X	X	X	X	X	X
 <p>Blind Cover for Porthole</p>	X	X	X	X	X	
 <p>Blind Cover for Window</p>	X	X	X	X	X	
 <p>Padlock Bracket - welded</p>	X	X	X			
 <p>Padlock Bracket - removable</p>	X	X	X	X		
 <p>Padlock Bracket - welded for Double Doors</p>	X	X	X			

ITEM	WR/SR	WR-A0	WR-A60	WTD/ISD	HSC	AC
 <p>Padlock Bracket - removable for Double Doors</p>	X	X	X	X		
 <p>Padlock Bracket</p>					X	
 <p>Door Closer</p>	X	X	X	X	X	X
 <p>Door Closer w. Spring</p>						X
 <p>Door Hook w. stop DIN 81406A</p>	X	X	X	X	X	X
 <p>Door Hasp L=127 mm</p>	X			X	X	X
 <p>Door Hasp L=200 mm</p>	X			X	X	X

ITEM	WR/SR	WR-A0	WR-A60	WTD/ISD	HSC	AC
 <p>Inductive Sensor</p>	X	X	X	X	X	
 <p>Anti-Piracy Look for Single Toggle Doors</p>	X			X		
 <p>Anti-Piracy Look for Quick Acting Doors</p>	X	X	X	X		
 <p>Smoke Seal</p>						X
 <p>Ventilation Grate</p>						X
 <p>De-Ice System</p>	X	X	X	X		



This is a typical selection of accessories for doors and hatches.
Other equipment is customized to meet our customers’ requirements.
High quality in every detail.



The polar vessels *Isflora* and *Polaris* on an expedition to Arctic waters in 1951.



Offshore vessels riding out a winter storm in the North Atlantic Ocean.



Libra's history

While his friends chose fishing boats and the freedom of life at sea, entrepreneur Albert Lillebø wanted to do something about safety on board.

PROTECTING PEOPLE AND VALUES SINCE 1954

Libra-Plast was founded on Norway's west coast in 1954. Rough weather conditions in the stormy North Atlantic Ocean made life at sea extremely dangerous. Dramatic shipwrecks and accidents and resulting loss of life were a fairly regular occurrence in towns and villages up and down the coast. Such tragic experiences awakened an interest in developing products that could improve safety at sea.

As one of the first companies in Norway, Libra started working with GRP composite materials already in 1957. From 1960 to 1990, Libra manufactured various GRP-composite products for the maritime industry. During that period, it also built more than 200 fishing and

leisure craft – all of them recognised for their high quality and seaworthiness.

Libra became an expert in the use of the new composite materials and developed a series of ship doors that quickly became market leaders. In 1971, Libra was the first company in the world to receive Type Approval from Det Norske Veritas [DNV] for their sandwich-composite weathertight doors.

Libra provides all types of vessels with a complete range of IMO-compliant, hinged, external and internal bulkhead doors made of steel, aluminium or composite materials. When Albert Lillebø founded Libra in 1954, safety at sea was the primary focus. It still is.

Libra is part of the maritime cluster on Norway's west coast – and a contributor to innovative maritime technology.

Notes

Feel free to contact us if you require more information about our quality doors.
On our website you will find contact information about an agent near you.

www.libra.no

[illegible]



Design: Tegreien Reklamestudio AS
Photo: Tony Hall, Getty Images, Ishavsmuseet Aarvik, Brodrene AA,
Marius Beck Dahle/Ulstein Group, Bjørn Ottosen/Bergen Group,
Jon Fjeldstad/Fotoarkivet and PGS



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