



# VIKING Evacuation Dual Chute

## Product Guide



VIKING LIFE-SAVING EQUIPMENT A/S

WHEN IT COMES TO **safety**  
THINK VIKING.





**Welcome to the V**





# VIKING advantage

**VIKING is the world-leader in marine evacuation systems with over 1000 systems in operation on passenger vessels all over the globe. Only VIKING can offer chute and slide evacuation systems for all vessels types and sizes.**

The flexibility and depth of our range gives us the expertise to be able to support an extensive network of locally-based servicing technicians for cost-effective and convenient service, where and when our customers need it.

VIKING's advanced marine evacuation systems provide fast and easy evacuation, exceptional stability and are trusted by passengers and crew worldwide.

# VIKING Evacuation Dual Chute VEDC



*The system's flexible capacity can be adapted to suit any vessel requirement.*

## VIKING's evacuation dual chute system is designed for the largest passenger carrying vessels

The evacuation dual chute, or VEDC, is VIKING's highest capacity chute system to date and is combined with 150 person high capacity liferafts for safe, rapid evacuation from large passenger carrying vessels.

This unique design combines the highest evacuation capacity with discreet, compact and self-contained design for maximum safety and relatively little deck disruption.

### Largest capacity chute system available

The unique dual system is constructed from two conjoined chutes. The fully enclosed Kevlar lined chute protects evacuees from environmental hazards, such as severe weather conditions, during descent directly into high capacity liferafts.

The design is based on extensive experience in manufacturing the market's leading evacuation chute systems. Exhaustive trials have proven that the new system provides the stability and passenger protection synonymous with VIKING products.

### Adaptable capacity

Each VEDC system contains two 150 person liferafts. Capacity can be increased to suit the exact ship requirement with additional drop down liferafts.

### Flexible installation

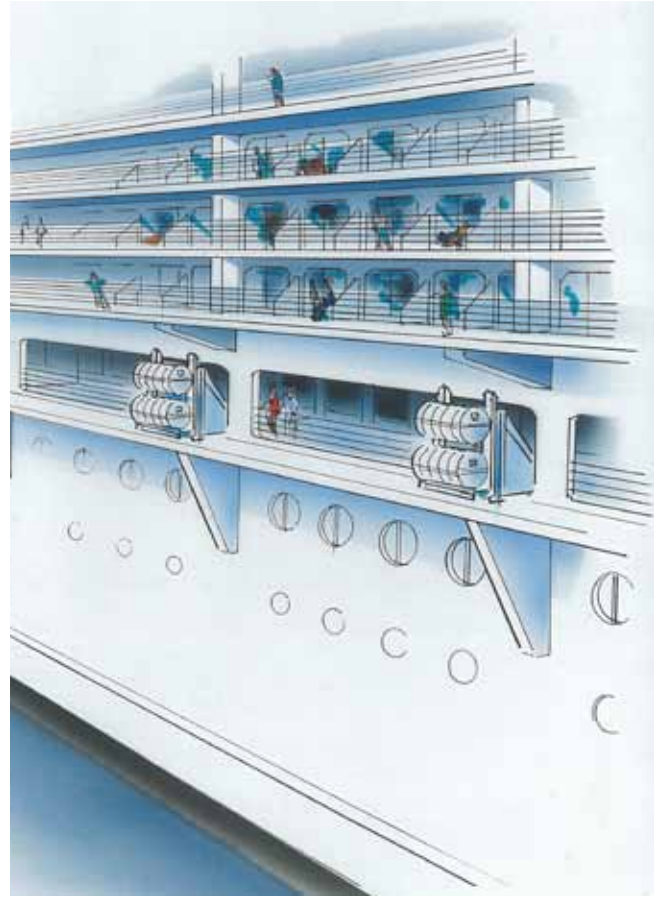
The system is self-contained and compact, which means that it can be installed in a vessel convenient position on deck or built into a suitable open recess.

Additional liferafts can be stowed apart from the system and released by remote release when required.





*The dual chute system is easy to operate and requires few trained crew members.*



*The VEDC system can be fitted in an open recess, on open deck or into the ship's side.*

### Simple to deploy

VIKING's VEDC is simple to operate and is released simply by pulling on the release lever. The descending sledge carrying the liferafts pulls the chute from the chute box. As the sledge descends into the water, the liferafts automatically inflate into position, pulling the chute into place inside the inner liferaft.

This rapid deployment function means that the system takes just minutes to fully deploy and requires few trained crew members.

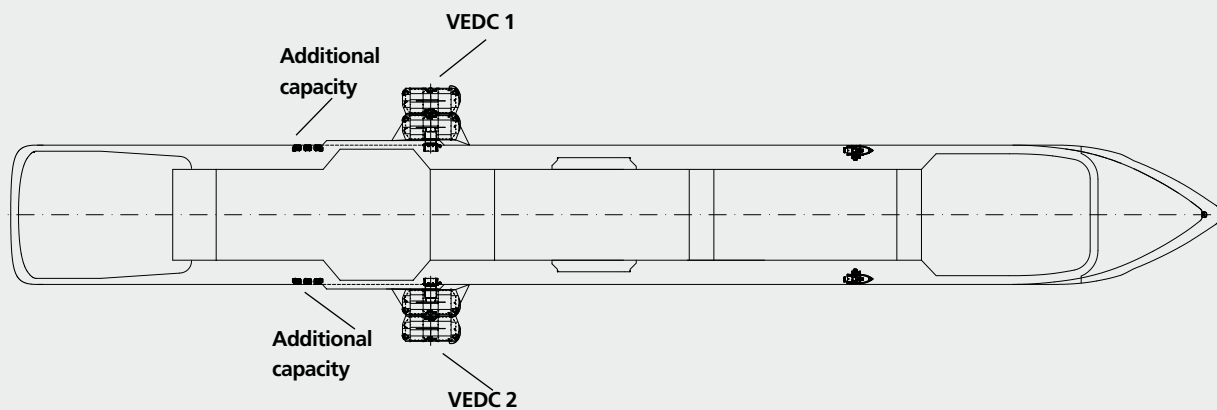
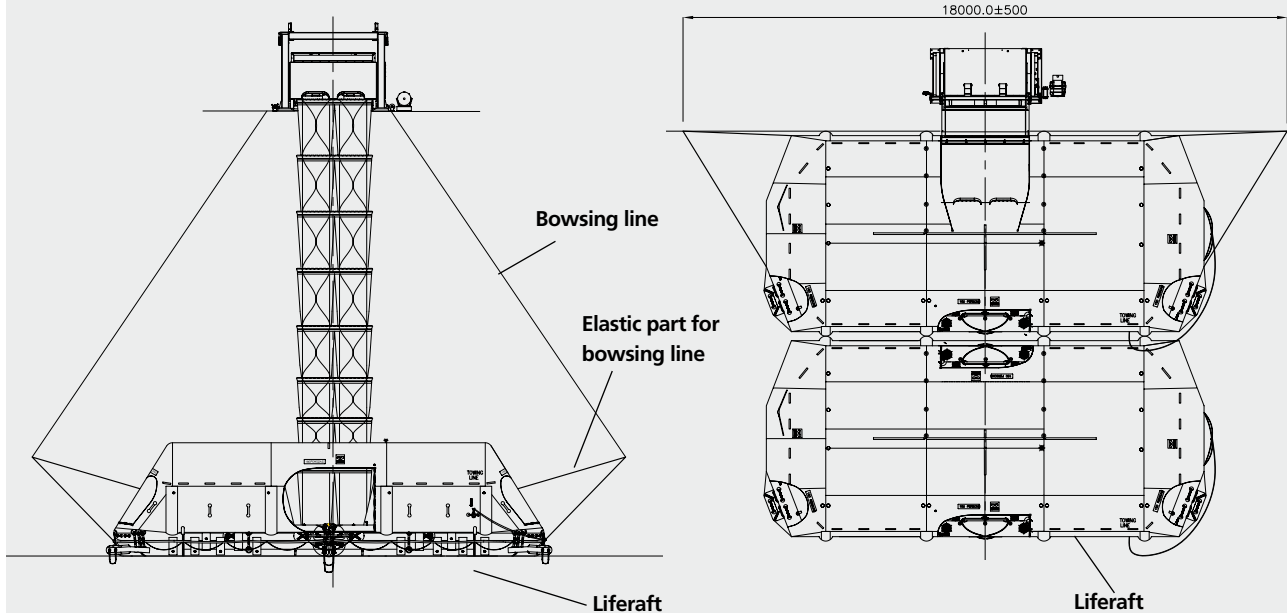
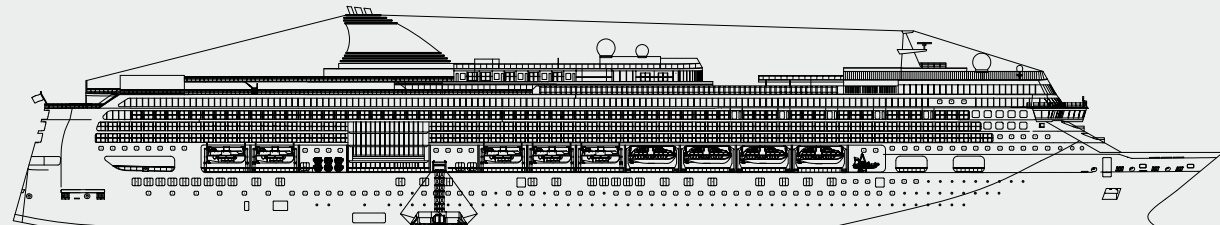
### SOLAS requirements are minimum standards for VIKING

VIKING systems are tried and tested for capacity and stability in conditions at least matching, but often well above, those required for certification.

### System features:

- Evacuation capacity: 736 people in 30 minutes
- Reinforced Kevlar chute protects against the elements
- Embarkation heights between 10 and 18 metres
- Easy to deploy
- Requires few crew to operate and little specialised training
- Available with 2 high capacity 150 person liferafts
- Supplied with either SOLAS emergency pack A or B
- Complies with all major international regulations

# Flexible installation



# VEDC System



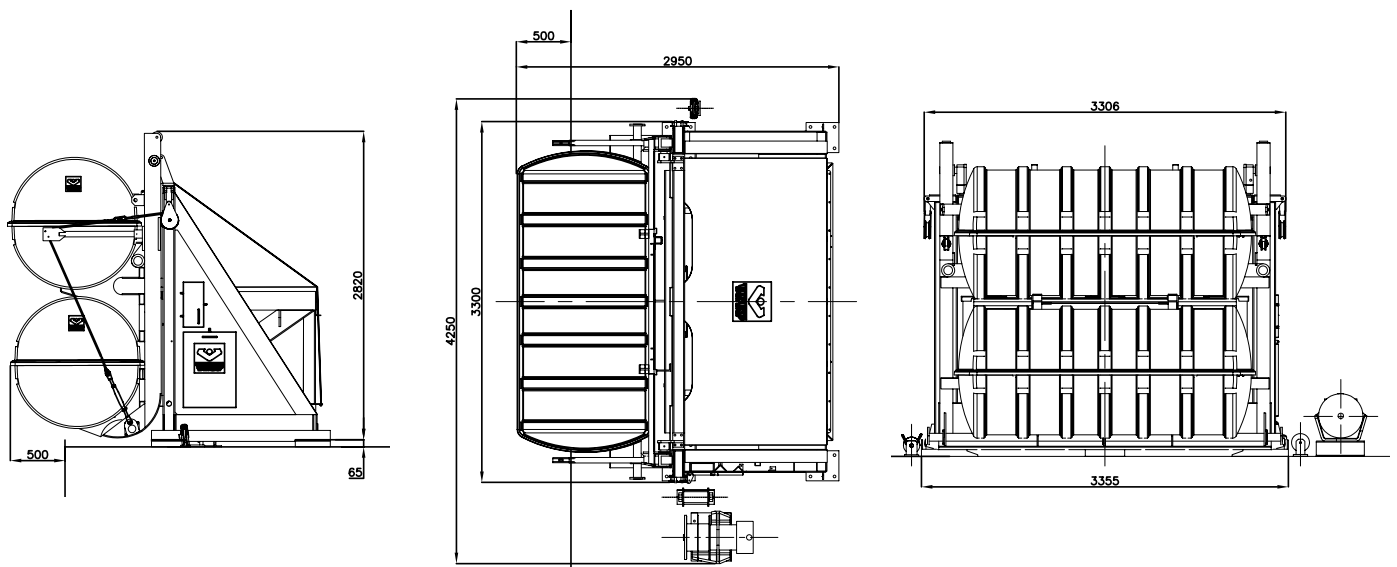
## 1 x 150 person liferaft with emergency A pack or B pack

The system can be built into an open recess on the vessel's side or installed free on deck without any additional covering.

Each system is installed with 2 x 150 person liferafts with SOLAS emergency A or B packs.

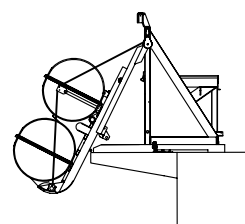
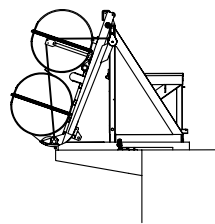
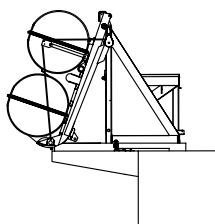
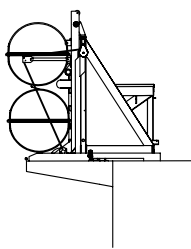
### Dimensions

Length: 3308 mm  
 Height: 2820 mm  
 Depth: 2950 mm  
 Weight: 4600 kg



# Fully deployed within two minutes

The system is activated by pulling on the handle.  
 The chute and liferaft sledge are automatically deployed and the descending sledge pulls the chute box into the correct position for the following deployment steps.





The sledge continues to pull the chute out of the chute box and into position. It sinks in the water, automatically inflating the liferafts. During the final stage, the chute is pulled automatically into the inflated liferaft ready for evacuation to begin. The entire process takes just two minutes.



**5** The weight of the sledge pulls the chute out of the box.



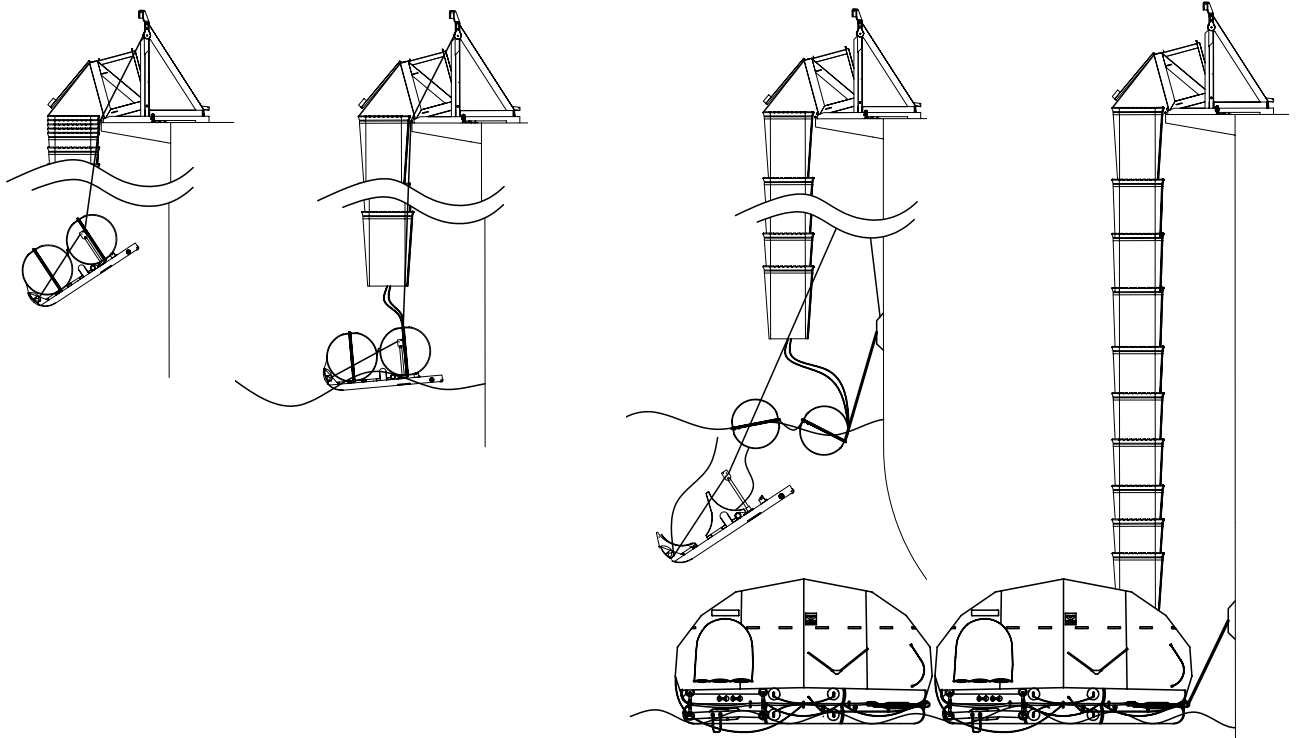
**6** The sledge and the liferafts reach the water.



**7** The sledge sinks away, automatically releasing the liferafts by pulling the lines.

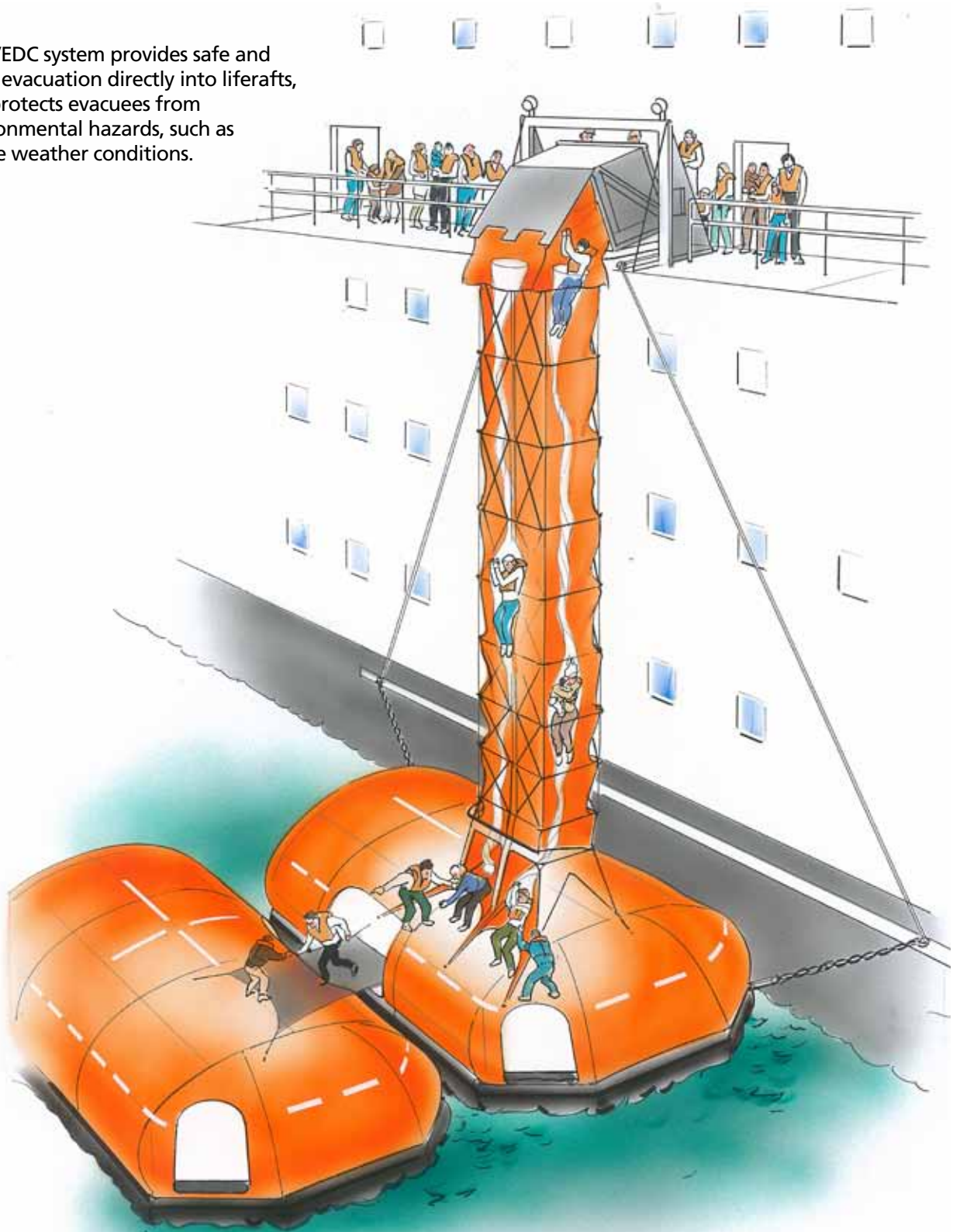


**8** The chute is automatically pulled into the inflated liferaft.



# VIKING Evacuation Dual Chute System in action

The VEDC system provides safe and rapid evacuation directly into liferafts, and protects evacuees from environmental hazards, such as severe weather conditions.

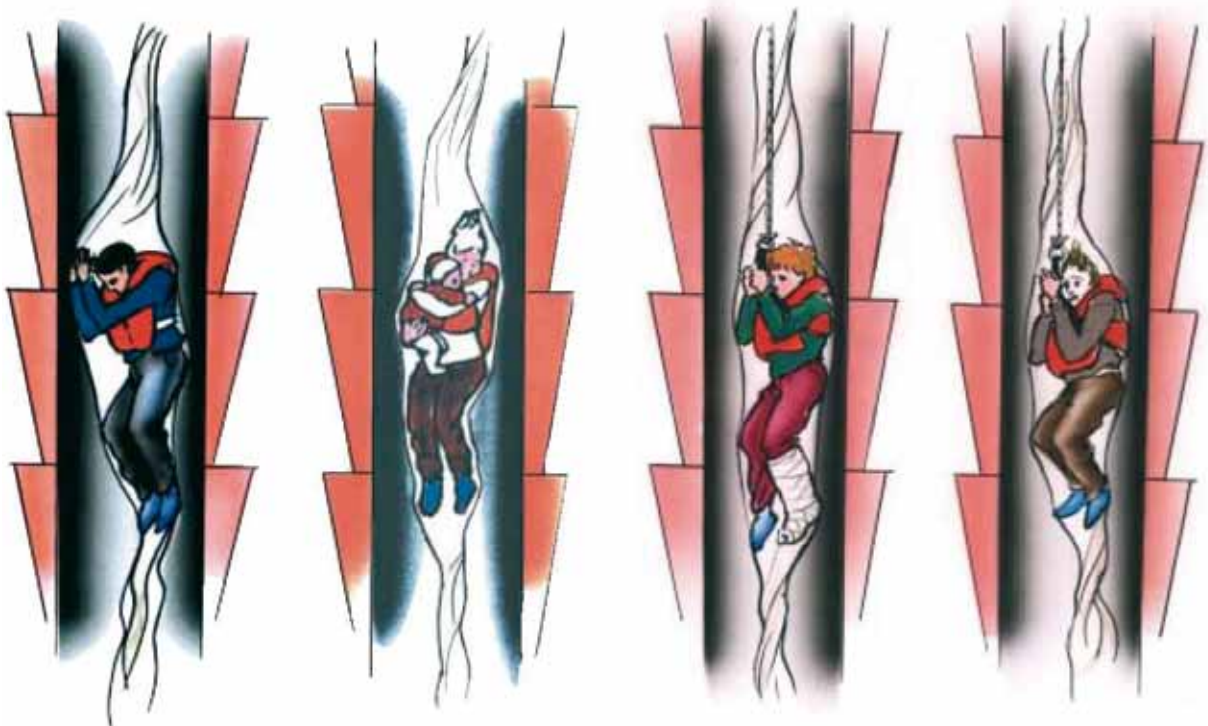




# Controlled descent



*Access through the chute stowage box.*



*Controlled and protected descent to the liferafts.  
The passive descent technique does not require special training of crew or passengers.*

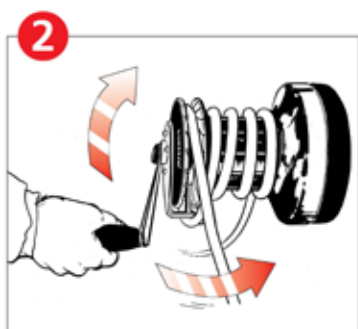
## Bowsing winches



**Bowsing winches are used to bouse the chute liferafts into position in relation to the ship's side.**

The winch and bowsing line ensure that the liferafts remain stable alongside the ship and are not moved out of position by the movement of the waves.

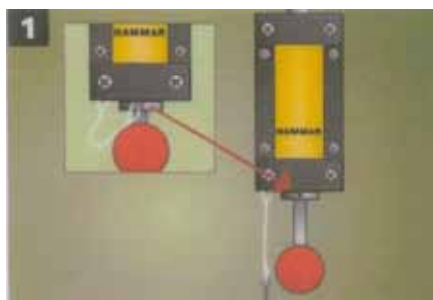
VIKING systems use Andersen Winches. In situations where every second counts, these lightweight stainless steel winches allow for rapid pay in of the line. Vertical ribs on the drum provide extra grip on the bowsing line, meaning that the winch needs turning fewer times.



The highly polished surface minimises the risk of jamming. The bowsing line slides easily up the self tailing drum, constantly pushed up by the following rope wind.

The spring loaded locking system in the handle means that the winch can be easily operated with one hand.

## Remote liferaft release




**Remote release systems allow liferaft containers to be stored far away from the MES system.**

They can be stored on racks anywhere on deck, in otherwise inaccessible locations, for example. The liferafts can be remotely released when required and are immediately ready to operate. VIKING systems use Hammar Manual Remote Release Systems (MRRS) to remotely release the liferafts for connection to the slide platform.

Pumping on the release system pump creates a vacuum which in turn activates the hydrostatic release unit. A sharp stainless steel knife within the unit cuts through the rope that holds the liferaft in place. The MRRS system is an effective and reliable method of releasing liferafts from their storage rack.



# Certificates



**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 2002/75/EC, 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-4558**  
This Certificate consists of 3 pages

*This is to certify that the*  
**Automatically self-righting liferafts**


*with type designation/s*  
**150 DKS**

*Manufacturer*  
**Viking Life-Saving Equ**  
Esbjerg V, Denmark

*is found to comply with the requirements in the foll*  
Annex A.1, item No. A.1/1.14 and Annex B, Module I  
amended, Regulation III/4, III/26.2.4, III/34 & X/3, LSA C  
2000 HSC Code 8.1, 8.5, 8.6, 8.

*Further details of the product and conditions for ce*

*Place and date*  
Høvik, 2008-04-18  
for DET NORSKE VERITAS AS



*Notified Body No. 0575*

*DNV local office:*  
DNV Fredericia

*Signature of Kristen Ulveseter*  
Kristen Ulveseter  
Manager, MTPN0370  
Department Systems & Components

*Notice: The certificate is subject to terms and conditions overleaf. Any significant changes in Directive or Standards referenced above may render this certificate invalid. The product that accords with Council Directive 96/98/EC, as amended. The Mark of Conformity may only be affixed to the product and a Declaration of Conformity module referred to in the council directive, is fully complied with.*

If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas, its compensation shall not exceed an amount equal to the fees charged for the services in question, provided that the requirements set down in the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas are fully complied with.

DET NORSKE VERITAS AS      VERITASVEIEN 1, 1322 HØVIK, NORWAY

EC Type examination certificate  
101 person liferaft



**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 2002/75/EC, 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-4716**  
This Certificate consists of 3 pages

*This is to certify that the*  
**Marine evacuation systems**

*with type designation(s)*  
**VIKING Evacuation Dual Chute, VEDC 2.1**

*Manufacturer*  
**Viking Life-Saving Equipment A/S**  
Esbjerg V, Denmark

*is found to comply with the requirements in the following Regulations/Standards:*  
Annex A.1, item No. A.1/1.27 and Annex B, Module B in the Directive, SOLAS 74 as  
amended, Regulation III/4, III/15, III/26.2.1, III/34 & X/3, LSA Code and 2000 HSC Code 8.1,  
8.7 & 8.10.

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

*Place and date*  
Høvik, 2008-04-18  
for DET NORSKE VERITAS AS



*Notified Body No. 0575*

*DNV local office:*  
DNV Fredericia

*Signature of Kristen Ulveseter*  
Kristen Ulveseter  
Manager, MTPN0370  
Department Systems & Components

*Signature of Frode Brattum*  
Frode Brattum  
Surveyor

*This Certificate is valid until*  
2013-04-18

*Notice: 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 product conforms to the requirements referred to in the council directive, is fully complied with.*

If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas, its compensation shall not exceed an amount equal to the fees charged for the services in question, provided that the requirements set down in the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas are fully complied with.

DET NORSKE VERITAS AS      VERITASVEIEN 1, 1322 HØVIK, NORWAY      TEL: (+45) 87 57 80 00      FAX: (+45) 87 57 80 11  
Page: 1 of 3

EC Type examination certificate  
MES Chute (VEC)



*VIKING's advanced evacuation systems provide fast and easy evacuation, exceptional stability and are trusted by passengers and crew worldwide.*

# Marine Evacuation Systems by VIKING

**VIKING marine evacuation systems (MES) are designed to evacuate passengers and crew as quickly and as safely as possible.**

VIKING can provide tailor made or standard mass evacuation to suit the individual customer requirement. The wide range of evacuation chutes, mini chutes and slides means that VIKING is unique in providing evacuation systems to suit every type and size of vessel.



## **Direct boarding liferafts (DKS, DKR)**

Direct boarding liferafts are typically used on board small passenger ferries. They are available either as open reversible large capacity liferafts or as self-righting canopied liferafts.

Both types are available in 25, 51, 101, and 150 person sizes.

They are mounted on racks on board ship and normally released from their cradles with a remote release system. They are then bowsed to the ship for direct evacuation from the deck to the liferaft.



## **Davit launched liferafts (DKF, DKFS)**

Davit launched liferafts are designed to be inflated and boarded at deck level, and then lowered into the water. They are available as self-righting canopied liferafts or standard canopied liferafts.

They are designed to carry 12, 25, 35 or 39 people and are an effective means of dry shod evacuation and can be either an alternative to chute or slide systems or a supplement.





### The VIKING Evacuation Chute (VEC)

The telescopic nature of the reinforced kevlar evacuation chute ensures a safe descent path and compensates for ship and sea movements so that evacuation is not obstructed. This system has the additional advantage of protecting evacuees from environmental hazards such as severe weather conditions during evacuation and is fitted with a protective cover.

The system has 2 or 3 pre-incorporated 101 person liferafts for ease of operation. It is designed for installation heights of 5-20 m and has an evacuation capacity of 582 people in 30 minutes.



### The VIKING Evacuation Slide (VES)

The slide is a stable, efficient dry shod evacuation system that can evacuate over 657 people in 30 minutes. It can be tailor made to suit all types of vessels and is available with self-righting 25, 51 or 101 person liferaft combinations.

The 30° angle between slide and ship absorbs the movement of the sea and means that the system can be installed at extreme forward and aft positions. The slide is fitted with ropes that allow for access up the slide, making it also a means of rescue.



### The VIKING Evacuation Liferaft System (VELS+SMS)

This latest MiniSlide system is designed for middle and low embarkation vessels with independent slide and liferaft for increased capacity and installation flexibility.

The system requires only one crew member to operate and oversee evacuation. The new brake cushion system (patent pending) gives evacuees a clear stopping point at the bottom of the slide and a soft stop. The new MiniSlide system has a 150 person liferaft, available with or without canopy to suit both open sea and protected waters.



### Throw overboard liferafts

Throw-overboard liferafts are designed to be dropped overboard in their container and inflated in the water.

Self-righting canopied rafts are available in four sizes; for 25, 51, 101 and 150 people. Standard canopied rafts are available in nine sizes; 6, 8, 10, 12, 16, 20, 25, 35 and 51 people. Open reversible liferafts, for use in sheltered waters are available for: 6, 12, 20, 25, 51, 101 and 150 people.

Liferafts with capacities of 25 and above can be used as supplementary liferafts to all VIKING mass evacuation systems.



### The VIKING Evacuation MiniChute (VEMC)

This system can be used by vessels with embarkation heights from 5-20m. Although it was originally designed for small and medium sized vessels, its flexible design means that it can also be used for larger vessels.

The MiniChute has a pre-incorporated 101 person liferaft and can evacuate 582 people in 30 minutes.



### The VIKING Evacuation MiniSlide (VEMS)

This system is designed for small vessels operating in any sea condition. It is available with either a 101 man open reversible liferaft for vessels operating in sheltered waters or a SOLAS compliant 101 man self-righting canopied liferaft for vessels operating at sea.

It is compact, packed in a container the size of a standard liferaft container, simple to operate and fully operational within 2 minutes. The VEMS can evacuate 303 people in 17 minutes and 40 seconds.



# Liferafts by VIKING

**VIKING's throw-overboard and davit launchable liferafts are available in a standard version and a top of the line automatically self-righting version.**

The proven self-righting liferafts ensure that no matter how the liferaft lands in the water it will always right itself ready for boarding. Liferafts can be equipped with a hydrostatic release unit to ensure that it inflates automatically if they have not been released manually.

Liferafts are subjected to rough sea trials, wind velocity tests at forces of 30 metres per second and deployed at extremely low temperatures. Self-righting liferafts are also tested for automatic self-righting.





## VIKING's liferafts are found all over the globe - from the arctic to the tropics.

VIKING's liferafts are available in a standard version and a top of the line automatically self-righting version.

VIKING's proven self-righting liferafts ensure that no matter how the liferaft lands in the water it will always right itself ready for boarding.

All liferafts are equipped with a hydrostatic release unit that makes it release and inflate automatically under water if it has not been released manually.

Liferafts are subjected to rough sea trials and deployed at extremely low temperatures. Self-righting liferafts are also tested for automatic self-righting.

### Suitable liferafts include:

- 25 and 51 person canopied liferafts
- 25, 51 and 101 person self-righting liferafts
- 25, 51 and 101 person open reversible liferafts

### Standard features

- Equipped with emergency packs and additional liferaft equipment according to SOLAS requirements
- Provided with at least two individual buoyancy compartments. If one of the compartments is damaged, there will be sufficient buoyancy to carry the specified number of passengers
- Stored in a rigid fibreglass container for durability
- Installed onboard either on cradles and racks, or stacked on top of each other
- Average lifespan is 18-20 years





# About VIKING

**VIKING is a global leader in maritime safety, providing and servicing essential safety equipment for passenger and cargo vessels, offshore installations, defence and fire fighting, fishing and yachting vessels.**

VIKING offers a choice of product packages and systems that are standard or tailor made, and certified to the latest requirements.

The VIKING headquarters are located in Denmark. Our liferafts, marine evacuation systems and protective clothing are manufactured at production facilities in Denmark, Norway and Thailand.

The unique VIKING network of global locations, agents and 270 certified servicing stations makes us a truly global provider offering cost-effective and convenient service when and where you need it.





## Global service network

**An important consideration when investing in safety equipment is servicing in the long term.**

VIKING is a global all-in-one service provider offering consolidated servicing of safety equipment on board. We offer total concept service packages including global competitive pricing, handling specifications and service certificates.

Our unique network of 270 certified servicing stations follows strict guidelines for servicing VIKING's products.

The network is supported by certified educational programmes, spare parts supply and continually updated online information and manuals.

All products delivered for servicing are subjected to thorough and comprehensive tests for total quality assurance.

Authorised servicing stations have the appropriate tools and spare parts available as turnaround time is important to our customers.

Service can be booked by contacting any of our offices in our global network.

Contact your local office for the nearest VIKING approved servicing station or see our website at [www.viking-life.com](http://www.viking-life.com)



# Dedicated global production

**Life-saving equipment is manufactured using combination of modern technology and skilled manual labour.**



*All our production facilities follow uniform guidelines and have identical systems and procedures.*

Our commitment to quality and safety and our loyal and experienced employees mean that our working atmosphere is quite exceptional.

VIKING practices integrated production with joint global planning. Particular speciality competences or special know how are concentrated at individual production units.

All our production facilities follow uniform guidelines and have identical systems and procedures. ISO 9001:2000 standard assures a consistent and standardised quality in accordance with specifications.



# Global logistics

**Our logistics network acts as one global unit with specialised systems for handling and tracking stock and delivery.**



*We are experienced in customising logistics for customers with centralised stock or several delivery points.*

VIKING's logistics specialists have the necessary certifications for optimising handling of products covered by the Dangerous Goods Act such as lifejackets and liferafts.

VIKING's worldwide stock points are geared to carry the appropriate stock for each market to ensure that our customers benefit from optimal delivery and pricing at appropriate locations.

# Shipowner Agreement - the flexibility you need

## How VIKING can help you protect your business

A VIKING Shipowner Agreement is a uniquely customizable concept that incorporates safety products, global servicing, single-source management, and financing in a variety of fixed price structures.

**One safety solution.**

**One global partner.**

This exciting new concept is designed to help you focus on your business. You can choose among its many options to free your mind from worries about service due dates, multiple vendor planning, fluctuating servicing costs and other administrative tasks. And get added peace of mind with a single point of contact for your servicing needs across the globe.



**Protective clothing**



**Liferafts**



**Lifeboats, hooks & davits**



**LSA**



**Marine fire equipment**





# VIKING global network

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