



VIKING Offshore

Offshore Evacuation Systems



VIKING SES-2B 2007 Offshore evacuation system



SPECIAL FEATURES

Compact and lightweight system features a high capacity transfer of 140 persons within 10 minutes. Suitable for floating and fixed installations with integrated liferafts. Suitable for installation on living quarter areas of the platform. It can be installed at evacuation heights of 50 meters and under operating temperatures from -20°C to +65°C.

The system is designed to stay stable and provide evacuation under conditions of heavy seas, currents, and very strong winds. SES-2B 2007 has a type approval and consists of the following components:



Blast proof container

The container is the structural interface to the platform deck. It protects the evacuation chute against all types of weather and consists of a load bearing welded frame for bolting onto a foundation in the deck structure. The SES-2B 2007 is light and compact, taking little space on platform deck. The liferafts are not stored inside the container on this system.

Boarding platform

The boarding platform inflates automatically and acts as sea reference point where evacuees can await dry transfer to the integrated liferafts or fast rescue crafts.



Fire retarding evacuation chute

The evacuation chute provides a simple, safe and reliable method for transferring evacuees from deck levels down to sea level. It is divided into cells with speed retarding slides running at opposing angles in a zigzag effect. Openings in the chute located behind each slide, provide easy entry and exit at any level.

Liferafts

The system comes with integrated liferafts which are accessed via the boarding platform when in use. All VIKING liferafts comply with SOLAS requirements and are equipped with either A-, or B-Pack.

Stabilising weight

The stabilising weight is attached to 3 winch wires at the base of the chute and hangs below the waterline when deployed. It keeps the escape chute taut and reduces side motion from wind and sea current.

The speed retarding slides also permit evacuees wearing lifejackets, survival suits and breathing apparatus to pass safely through the chute. The length of the chute is calculated to allow for side motion under strong wind and current conditions.

Service

Liferafts and boarding platform must be recertified every year. Annual inspection and system function test (performed at the same time as the liferafts' and boarding platform's service). Winch wires shall be inspected regularly and renewed at intervals not exceeding 4 years. Periodical lubrication of winch.

Release system

SES-2B 2007 offers controlled launching using gravity. The speed of the fall is controlled by a constant speed winch. An electrical motor enables recovery of the system when dry.



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WHEN IT COMES TO
safety
THE VIKING™



VIKING SES-2B 2007 Specifications

CONTAINER DATA SHEET

| | Description | Value |
|----|--|---|
| 1 | Manufacturer | VIKING Life-Saving Equipment |
| 2 | Approved by | Lloyd's |
| 3 | Model | SES-2B 2007 |
| 4 | Frame materials | EN 10025 S355J2G3, only load bearing parts. Material certificates according to EN 1024, 3.1.b |
| 5 | Dimensions whole system with liferafts (mm) | L: 2565 W: 4615 H: 2750 |
| 6 | Surface protection | NORSOK standard M-501, system no. 1 |
| 7 | Weight (Whole system with liferafts and sliding frame) | Approx. 6 Ton (**) |
| 8 | Walls and roof | Carbon steel NV E36 |
| 9 | Door | GRP Sandwich element, double hinged |
| 10 | Cover plate, material | Aluminium |
| 11 | Cover plate, weight | 188 kg |
| 12 | Stabilizing weight, material | Carbon steel (DIN 50049 3.1.b/2.2) |
| 13 | Stabilizing weight, surface protection | NORSOK standard M-501, system no. 2B |

CHUTE DATA SHEET

| | Description | Value |
|---|--------------------------------|--|
| 1 | Manufacturer | VIKING Life-Saving Equipment |
| 2 | Vertical distance to sea level | According to customer's installation height requirements (max. 50 meters) |
| 3 | Chute length, extended | Approx. Installation height x 1.15 (depending on customer's environmental data) |
| 4 | Cell dimensions (mm) | D: 1550 x 1050 H: 1000/1250 |
| 5 | Material, rings | Steel – AISI 316 |
| 6 | Material, net wall | DuPont™ Kevlar® |
| 7 | Material, angle slides | DuPont™ Kevlar® |
| 8 | Openings | Openings behind angle slide on every cell, except top and bottom cells. Side openings optional |

BOARDING PLATFORM DATA SHEET

| | Description | Value |
|---|--|---|
| 1 | Manufacturer | VIKING Life-Saving Equipment |
| 2 | Model | 35 MEP |
| 3 | Design standard | VIKING Life-Saving Equipment |
| 4 | Equipment | Delivered with 4 connection lines, 4 knives, and 4 connection rings |
| 5 | Number of life boarding platforms per SES unit | 1 |
| 6 | Material | Rubber |
| 7 | Capacity | 35 persons |
| 8 | Diameter inflated (mm) | 4950 x 4428 |
| 9 | Dry weight | 110 kg |

* Information based on VIKING's standard delivery

** Varies depending on number and type of liferafts

*** Please refer to www.VIKING-life.com for detailed information about each kind of liferaft

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WINCH DATA SHEET

| | Description | Value |
|----|--------------------------------------|----------------------|
| 1 | Manufacturer | ZOLLERN |
| 2 | Design standard | SOLAS |
| 3 | Lifting capacity | 39,2 KN (4000 kg) |
| 4 | Driven equipment | Electrical motor |
| 5 | Deployment speed | 65 m/min |
| 6 | Hoisting speed | 10 m/min |
| 7 | Weight (without motor) | 575 kg |
| 8 | No. of sections on drum | 3 |
| 9 | Maximum number of layers per section | 5 |
| 10 | Storage capacity per section | 72,5 m |
| 11 | Brake system | Centrifugal |
| 12 | Wire diameter (mm) | 10 |
| 13 | Wire length | 65 m |
| 14 | Wire breaking strength | Minimum 6430 kg |
| 15 | Wire SWL | 0,2 x 6430 = 1286 kg |
| 16 | Wire design | 6x36 + IWRC RH RL |
| 17 | Wire material | 1770 MPa galvanized |

LIFERAFT DATA SHEET

| | Description | Value |
|----|-----------------------------------|---|
| 1 | Manufacturer | VIKING Life-Saving Equipment |
| 2 | Approved by | EU Marine Directive MED |
| 3 | Model | 12, 16, 20, 25, or 35 DK-RS (***) |
| 4 | Design standard | The latest amendments of the SOLAS regulations |
| 5 | Equipment | A or B Pack (SOLAS) |
| 6 | Number of life rafts per SES unit | 2 or 4 |
| 7 | Capacity per SES unit | Min. 24 persons. Max. 140 persons |
| 8 | Packing of liferafts | GRP container |
| 9 | Stowage height | According to customer requirements (max. 50 meters) |
| 10 | Length of painter line | Stowage height + 10 meters |

