



OFFSHORE EVACUATION SYSTEMS

VIKING SES-2B 2007

For fixed offshore installations

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:

FULL DESCRIPTION



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.

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. 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.

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.

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.

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.

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.





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VIKING SES-2B 2007 Specifications

CONTAINER

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

WINCH

Description	Value
Manufacturer	ZOLLERN
Design standard	SOLAS
Lifting capacity	39,2 KN (4000 kg)
Driven equipment	Electrical motor
Deployment speed	65 m/min
Hoisting speed	10 m/min
Weight (without motor)	575 kg
No. of sections on drum	3
Max. no. of layers per section	5
Storage capacity per section	72,5 m
Brake system	Centrifugal
Wire diameter (mm)	10
Wire length	65 m
Wire breaking strength	Minimum 6430 kg
Wire SWL	0,2 x 6430 = 1286 kg
Wire Design	6x36 + IWRC RH RL
Wire material	1770 MPa galvanized

CHUTE

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

LIFERAFT

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

BOARDING PLATFORM

Description	Value
Manufacturer	Viking Life-Saving Equipment
Model	35 MEP
Design standard	Viking Life-Saving Equipment
Equipment	Delivered with 4 connection lines, 4 knives, and 4 connection rings
Number of boarding platforms per SES unit	1
Material	Rubber
Capacity	35 persons
Diameter inflated (mm)	4950 x 4428
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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