OFFSHORE EVACUATION SYSTEMS

VIKING SES-2B 2007 w sliding frame
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. The sliding frame enables the system to be in "flush with rig side" when stowed and cantilevered when deployed, making it especially adequate for FPSOs. SES-2B 2007 with sliding frame has a type approval and consists of the following components:

FULL DESCRIPTION

Blast proof container
The container protects the evacuation chute against all types of weather.
It consists of a load bearing welded frame which is attached to the Sliding Frame 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.

Sliding frame
This hydraulic arrangement enables the system to be in "flush with rig side" when stowed, and cantilevered when deployed.

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 whichare 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.

VIKING LIFE-SAVING EQUIPMENT A/S
Find your local branch on **www.viking-life.com**

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VIKING SES-2B 2007 w sliding frame
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: 5200 W: 5385 H: 3310
Surface protection	NORSOK standard M-501, system no. 1
Weight (Whole system)	Approx. 10.6 Ton (**)
Walls and roof	Carbon steel NV E36
Door	GRP sandwich element, double hinged
Cover plate, material	Aluminium
Cover plate, weigth	188 kg
Stabilizing weight, material	Carbon steel (DIN 50049 3.1.b/2.2)
Stabilizing weight, surface protection	NORSOK standard M-501, system no. 2B

CHUTE

Description	Value
Manufacturer	Viking Life-Saving Equipment
Vertical distance to sea level	According to costumer's installation height requirements (max. 50 meters)
Chute length, extended	Approx.: Installation height x 1.15 (depending on costumers 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.

BOARDING PLATFORM

Description	Value
Manufacturer	Viking Life-Saving Equipment
Model	35 MEP
Design standard	Viking Life-Saving Equipment
Equipment	4 connection lines, 4 knives, and 4 connection rings
No. of boarding platforms per SES unit	1
Material	Rubber
Capacity	35 persons
Diameter inflated (mm)	4950 x 4428
Dry weight	110 kg

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. number of layers per section	5
Storage capacity	72.5 m
Brake system	Centrifugal
Wire diameter (mm)	10
Wire length	65 m
Wire breaking strenght	Minimum 6430 kg
Wire SWL	0.2 x 6430 = 1286 kg
Wire design	6x36 + IWRC RH RL
Wire material	1770 Mpa galvanized

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)
No. of liferaft 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 costumer requirements (max. 50 meters)
Length of painter line	Stowage height + 10 meters

SLIDING FRAME

Description	Value
Manufacturer	Viking Life-Saving Equipment
Dimensions of sliding frame assembly (mm)	L: 5383 W: 2730 H: 702
Weight sliding frame assembly	4620 kg
Sliding frame material	EN 10025 S355J2G3, certicates according to EN 10204, 3.1.b
Surface protection	NORSOK standard M-501