



VIKING Offshore

Offshore Evacuation Systems



VIKING SES-2C Arctic Offshore Evacuation System

SPECIAL FEATURES

SES-2C Arctic is the ultimate high capacity evacuation system for offshore installations in frozen waters and harsh arctic weather conditions. A special design incorporates a counterweight system that compensates for the heave of the vessel (even in heavy seas), and gives enough stability to deploy the system and board directly onto supply vessels, icebreakers, and other ships.

In the Arctic summer, when the sea is not frozen, the system can also be deployed to the sea using a boarding platform and liferafts as means of evacuation. It features controlled launching and recovery in temperatures from -40°C to +65°C, and comes complete with integrated liferafts. Evacuation capacity is 140 persons within 10 minutes from evacuation heights of up to 40 meters. SES-2C Arctic has a type approval and consists of the following components:

Blast proof container

The container is the structural interface to the platform deck. The SES-2C standard position on the deck is cantilevered from the deck's edge. When the evacuation system is not in use, all components incl. liferafts are safely stored inside the blast proof container.

Counterweight system

This arrangement enables the system to be deployed not only to the sea, but also to standby vessels, ice breakers, and other ships.

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-2C ARCTIC 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 is situated at the base of the chute. It inflates automatically and acts as sea reference point where evacuees can await dry transfer to integrated liferafts or fast rescue crafts.

Liferafts

The system comes with integrated liferafts that are stored inside the blast proof container and 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 passage/chute taut and reduces side motion from wind and sea current. When deployed to a vessel, the counterweight arrangement stabilizes the system.

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-2C Arctic Specifications

CONTAINER DATA SHEET

	Description	Value
1	Manufacturer	VIKING Life-Saving Equipment
2	Approved by	DNV
3	Model	SES-2C Arctic
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:4810 W: 3930 H: 5555
6	Surface protection	NORSOK standard M-501, system no. 1
7	Weight (Whole system with rafts)	Approx. 14.7 Ton (**)
8	Walls and roof	EN 10025 S235J4 or equivalent
9	Door	GRP sandwich element
10	Cover plate, material	Aluminium
11	Cover plate, weight	165 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 40 meters)
3	Chute length, extended	Approx.: Installation height x 1.15 (depending on customer's environmental data)
4	Cell dimensions (mm)	D = 1200, H = 1000
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	25 UT-RS
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 pr SES unit	1
6	Material	Rubber
7	Capacity	25 persons
8	Diameter inflated (mm)	4090
9	Dry weight	65 kg

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	75 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 liferafts 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. 40 meters)
10	Length of painter line	Stowage height + 10 meters

* 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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