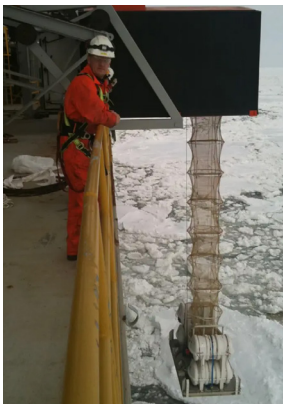
OFFSHORE EVACUATION SYSTEMS

# VIKING SES-2C Artic
## For fixed offshore installations







## 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.

## FULL DESCRIPTION

**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.

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

OFFSHORE EVACUATION SYSTEMS

# VIKING SES-2C Artic
## Specifications

### CONTAINER

| Description | Value |
|---|---|
| Manufacturer | Viking Life-Saving Equipment |
| Approved by | DNV |
| Model | SES-2C Artic |
| 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: 4810 W: 3930 H: 5555 |
| Surface protection | NORSOK standard M-501, system no. 1 |
| Weight (Whole system) | Approx. 14.7 Ton (**) |
| Walls and roof | EN 10025 5235J4 or equivalent |
| Door | GRP sandwich element |
| Cover plate, material | Aluminium |
| Cover plate, weigth | 165 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. 40 meters) |
| Chute length, extended | Approx.: Installation height x 1.15 (depending on costumers environmental data) |
| Cell dimensions (mm) | D: 1200, H: 1000 |
| 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 | 25 UT-RS |
| 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 | 25 persons |
| Diameter inflated (mm) | 4090 |
| Dry weight | 65 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 | 75 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. 40 meters) |
| 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.

DuPont™ and Kevlar® are registered trademarks or trademarks of E.I. du Pont de Nemours and company or its affiliates.