



Passenger

Marine evacuation system – VIKING, VEDS Helix, Dual Slide

Item no.: VEDS Helix

The VEDS Helix system is certified by DNV in accordance with SOLAS/MED requirements and relevant flag state approvals. The new innovative EscapeWay™ Helix slide system is activated by a mechanical handle.

- Safe and easy evacuation under all conditions
- Minimum maintenance required
- No bowing system or shipside installation





Passenger

Technical Data, VEDS Helix 3x150 A-pack system.

The VIKING Evacuation Dual Slide system, VEDS Helix, consists of steel frame, a chute-box, a sledge for liferaft containers and a deployment winch. The liferaft containers are mounted on the sledge by means of lashing straps. Additional liferafts can be positioned near to the VEDS Helix system and released by means of a remote release system, either pneumatical or electrical system. A connection line ensures connection between additional liferafts and the inflated VEDC system.

STOWAGE HEIGHT	Min. 5 - max. 22 m above waterline in lightest seagoing condition
EVACUATION CAPACITY	908 persons within 30 min. with 2 EscapeWay™ Helix slides
LIFERAFT	Approved with 153 persons self-righting liferaft with a SOLAS A emergency pack
LENGTH	5172 mm
DEPTH	3080 mm
HEIGHT	3535 mm incl. foundation
WEIGHT	14802 kg including winches (total) 4828 kg Sledge w. 3 liferafts 950 kg Front hatch 1090 kg Helix frame (2xHelix slide)
APPROVALS - SYSTEM	SOLAS 74, Reg. III/4 & III/34, as amended by IMO Res. MSC 48(66) and IMO Res. MSC 81(70) EC type approval acc. to EC Directive 96/98/EC USCG acceptance/approval by MRA
APPROVALS - LIFERAFTS	SOLAS, IMO, USCG, MCA, EC and other national authorities
MATERIALS	
A-FRAME, CHUTE BOX AND SLEDGE	Plates : Steel, galvanized Profiles : Steel, galvanized
CHUTE SECTIONS	Helix slide : Fabric for sliding is designed for a load of 2'120 kg/50 mm Seam strength have been tested to 116 kg/50 mm Tear lab test is 55 kg/50 mm with a 4 mm tear Fabric is Martindale tested with 250000 cycles.
LOWERING/SERVICEABILITY WINCH	Not defined yet
WIRES	Stainless steel, AISI316
INSULATION PLATES COVER	Nylon, PEDH GRP, RAL 9010
LIFERAFTS	Nylon webbing covered with natural rubber
LIFERAFT CONTAINER	Aluminium
INTERFACE TO SHIP	The system and lowering winch are bolted to the ships structure with galvanized bolts
DESIGN CRITERIA	The structure is designed with safety factor 4.5 and the falls, links, blocks are designed with safety factor 6

ACTIVATION

The system is activated by a mechanical handle. The load of the sledge with the liferafts will move forward on sliding rails together with the chute box. The sledge will be lowered towards the waterline controlled by a lowering winch. The speed of the winch is controlled by an oil brake. When the sledge is waterborne the sledge sinks away and pulls the inflation lines for the liferafts. The sledge controls the inflated liferafts as a load bowing hanging underneath the water surface. The mother liferafts is attached to the lowering wires which are holding the sledge/load in position. The load keeps the liferafts steady on the water. The Helix slide is automatically connected inside the inflated mother liferaft and ready for use once the liferafts are fully inflated.