



LNT80E – 80 000 m³ VLEC

LNT80E is an 80,000m³ very large ethane carrier (VLEC) designed by LNT Marine. The design is based on the LNT A-BOX[®] containment system, which gives excellent volume utilization and allows for design of an efficient hull form.

LNT80E is a building friendly and energy effective VLEC for world wide trade. The LNT A-BOX[®] containment system enables fully refrigerated carriage of ethane in prismatic tanks offering excellent volume utilization and reasonable weight. At the same time the self-supporting independent tanks are robust and have internal structure, mitigating any sloshing issues and will thus not have any loading restrictions. The design may be made as a combination carrier capable of carrying both ethane and ethylene, LPG or LNG.

Main Dimensions

Length o.a.:	229.0 m
Length b.p.:	220.0 m
Beam moulded:	36.0 m
Depth moulded:	22.5 m
Design draught (ethane):	10.6 m
Scantling draught:	11.2 m

Deadweight & Tonnage

Deadweight (scantling):	approx. 50,000 ton
Gross tonnage:	approx. 50,400 -

Speed & Range

Service speed:	16.5 knot
Range:	approx. 12,500 nm

Machinery & Propulsion

The propulsion system shall feature one dual fuel main engine mechanically connected to a single shaft and propeller. The auxiliary generator sets shall be able to burn natural gas.

Dual fuel main engine:	approx. 13,400 kW
Auxiliary engines:	approx. 3,000 kW

Cargo System

No. of cargo tanks:	4 -
Total capacity:	80,000 m ³
MARVS:	0.4 bar g
Design density:	0.6 ton/m ³
Boil-off rate:	approx. 0.09% per day
Min.temp.:	- 104°C

LNT A-BOX®

The unique LNT A-BOX® containment system has been developed by LNT Marine. The LNT A-BOX® system consists of an IMO independent tank type A placed in an insulated hold space. The system combines proven technologies in a safe and cost effective configuration. The idea was to develop and commercialize a simple and efficient cargo containment system that could enable more shipyards to build the LNG carriers. LNT A-BOX® offers a number of advantages compared to other containment systems for LNG/LEG.

Building capacity and costs

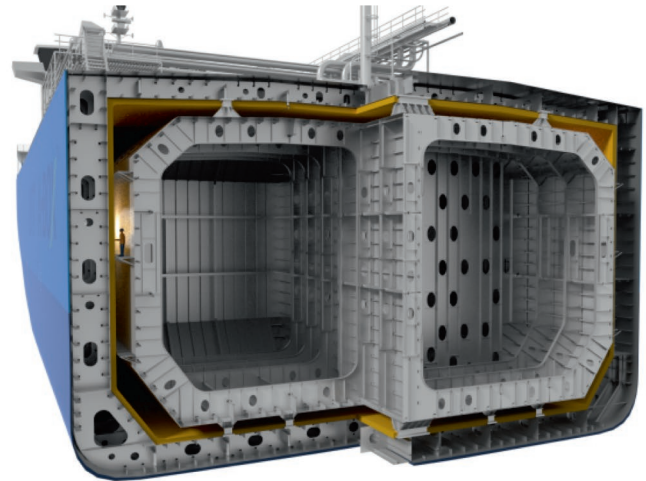
- Enabling more yards to build LNG carriers
- Independent tank construction
- Simple and cost-effective design

Safety

- Easy inspection and maintenance
- No filling restrictions
- Robust tank design
- Independent barriers

Efficiency

- Excellent volume utilization
- Excellent thermal insulation
- Hull form flexibility



LNT Marine

LNT Marine (LNT) is a technology provider and contractor within the LNG sector, gas carriers and other types of cold cargoes. We invent and develop new technologies. We provide design and engineering for marine solutions based on our proprietary technologies, and we offer system supply as well as technical support and installation services.

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