

# Double End Ferry MS "Frisia IV"

## General:

The vessel is designed as double end ferry for the transportation of passengers, cars and trucks between the island Norderney and Norddeich under consideration of economical points of view. It is built in accordance with the EU-regulations and for coasting trade on the sands.

The ship is fully air conditioned and fitted out with lounge, restauration, gallery and food lift. The ship is designed for carrying trucks with dangerous goods. Due to four Voith-Schneider propulsion plants the vessel has best manoeuvring quality at all weather conditions. The hull is made in light-weight construction to fulfill the speed requirements of the shallow water seaway to the island.

## Classification:

GL  100 A5 "W" Passenger Ship  
 MC AUT

## Main Dimensions:

Length over all:	70,70 m
Length betw. perp.:	68,00 m
Breadth moulded:	13,40 m
Breadth over all:	13,70 m
Depth freeboarddeck:	3,30 m
Depth cardeck:	5,90 m
Draught max.:	1,75 m

**Service Speed:** 12,30 kn

**Deadweight:** 326 tdw

**Tonnage :** 1574 GT  
588 NT

## Vehicle Capacity:

Car Capacity:	58
Truck Capacity (13,50 m):	19
Lane Meters:	265 m

## Persons Capacity:

Summer Time Service:	1350 Persons
Winter Time Service:	1000 Persons

## Public areas and Passengers' seats:

Main Deck Saloons:	680 m <sup>2</sup>	848 seats
Lounge:	56 m <sup>2</sup>	48 seats
Exposed Deck Areas:	280 m <sup>2</sup>	378 seats
Total seats (Summer)		1274 seats

## Crew Accomodation:

Ship's Crew in 1 Bed Cabins	6 Persons
Catering Crew in 1 Bed Cabins	4 Persons
Spare 2 Bed Cabins	2 Cabins
Total Cabins	12 Cabins
Total Beds	14 Persons

## Deck's Equipment

2 el. driven anchor winches  
with 2 warping heads

## Lifesaving Appliances:

1 Rescue Boat	6 Pers.
14 Liferafts, 150 persons, each	

## Propulsion System:

4 Diesel alternators, each:	700 kVA
4 Electro-motors, each	470 kW
4 Reduction gears	
4 Voith Schneider Plants	Ø 1600 mm

## Aux. Engine Plants:

1 Emergency alternator	250 kVA
1 Bilge – Ballastpump	40 m <sup>3</sup> /h
1 Bilgepump	40 m <sup>3</sup> /h
2 fire fighting / bilge pumps, each	51 m <sup>3</sup> /h
1 CO <sub>2</sub> fire fighting plant	
1 Sprinkler plant	

## Nautical Equipment:

1 GDMSS radio equipment
2 Sea radar units
1 Gyro compass system with autopilot
2 Echosounder
1 Speed log
2 D-GPS-Navigators