

# Three years experience of carbon-fiber Catamarans



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*Safety, navigation,  
technology*

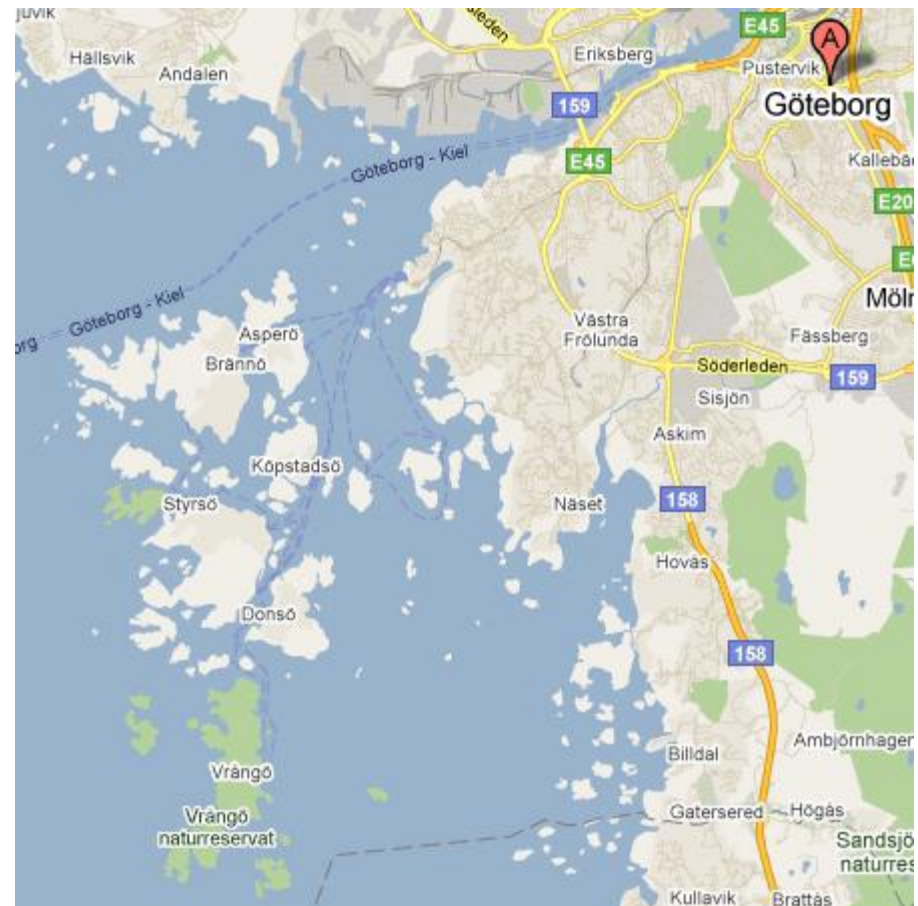


**STYRSÖBOLAGET**

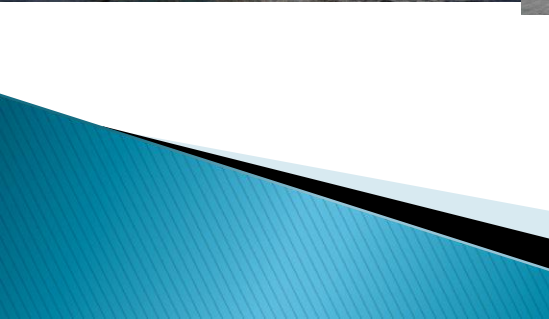
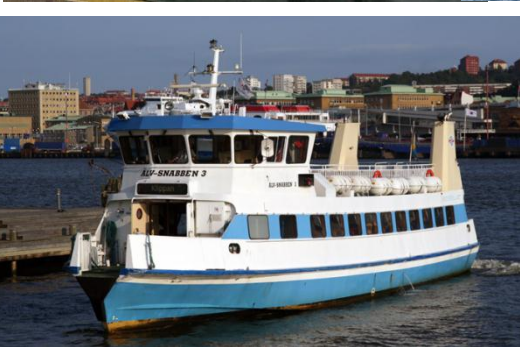
# The Company

## Styrsöbolaget

- ▶ Operates in Gothenburg
- ▶ 14 ships
- ▶ Traffic all year around
- ▶ History since 1922
- ▶ 2012 transported 4 million passengers









# 2010 Delivery of Valö/Rivö



- ▶ 2010 – Delivery of our new carbon fibre Catamarans Valö and Rivö.
- ▶ Built at Br AA shipyard, Høyen, Norway.
- ▶ DNV Class
- ▶ HSC 2000
- ▶ Weighs 40% less than aluminium.
- ▶ Lower fuel consumption.
- ▶ Smaller waves





# VALÖ

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Registerbeteckning: SIPR  
IMO nummer: 9544310  
MMSI nummer: 265650970  
Mobiltelefon: 0705-69 61 79  
Byggnadsår: 2010  
Byggnadsvarv: Brödrene Aa, nr 259  
Material i skrov: FRP Carbon  
Material i däckshus: FRP Carbon  
Längd, största: 27,09 m  
Bredd, största: 8,39 m  
Djupgående med last: 0,95 m  
Höjd över vattenlinjen: ca 9,0 m  
Displacement lätt fartyg: 56 ton  
Displacement med last: 75 ton  
Bränsletankar volym: 3 000 liter  
Bruttodräktighet: 229 UR  
Sittplatser salong: 163  
Sittplatser utdäck: 0

Passagerarantal: Inomskärsfart 163  
Fartområde: R 4 (D)  
Livflottar: Zodiac 2 x 150 + 1 x 30  
Huvudmotor fabrikat: 2 st MAN D2842 LE410  
Huvudmotor effekt: 2 x 1 019 = 2 038 hk  
vid 2 100 rpm  
Växel: Servogear HD 220 H,  
reduktion 2,952:1  
Propeller: 2 st Servogear ställbara, 711 rpm  
Servicefart: 28,5 knop  
Bogpropeller: 2 x 50 hk  
Generatoraggregat: 2x32 kW



# Running ours today

Each ship has done 10 000 running ours  
Each ship has done 87 000 dokings





# Carbon fibre construction

► [www.braa.no](http://www.braa.no)



# Driving in ice

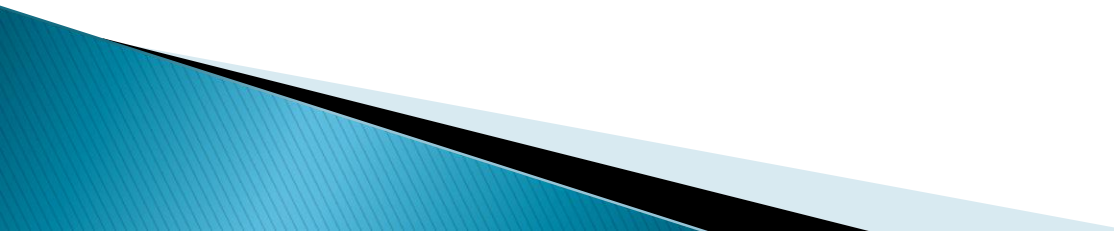


- ▶ Cooling water to the engines
- ▶ Propellers and rudders
- ▶ The hull





# Fuel consumption

- ▶ Yes we think it is low compared to the speed and our other ships
  - ▶ Also depends on how you drive
  - ▶ Type of engines
  - ▶ Design of the hull
- 

# Important

- ▶ Build the ferry as you want it
- ▶ Look around at other ferris to learn from them
- ▶ Bring benefits from own ferries
- ▶ Do not get stuck in "we have always done like this"





[www.styrsobolaget.se](http://www.styrsobolaget.se)

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