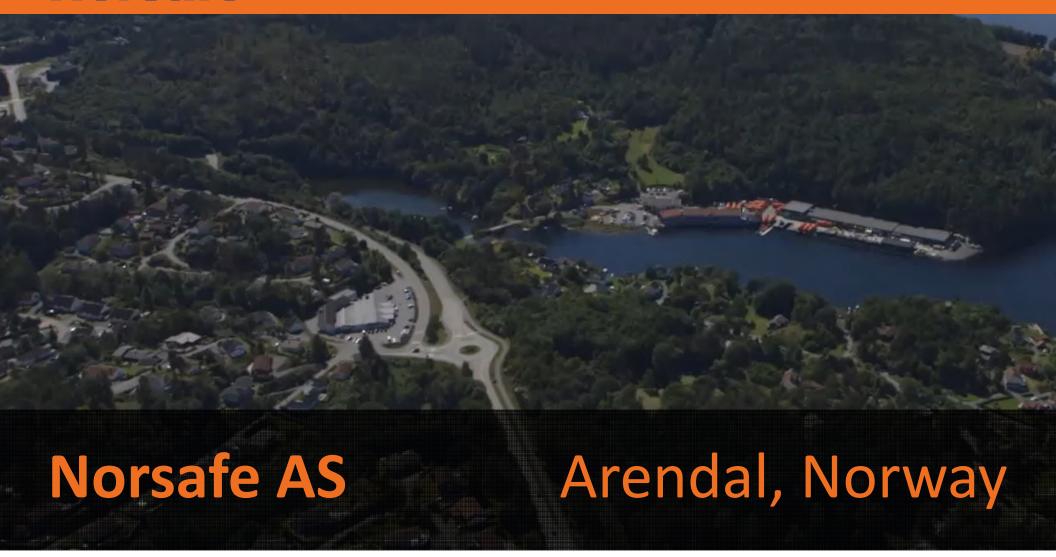
**Norsafe** 

BETTER BY DESIGN



## Applying SOLAS on High Speed Crafts

- Michel Saxlund, Sales Engineer at Norsafe Military and Professional
- Karl Marius Norschau, Industrial Designer with Norsafe Military and Professional

## History – Lifeboats



- Safety at Sea Titanic 1912
- Conference in London 1913 Convention for the Safety of Life at Sea (SOLAS)







**Norsafe** 

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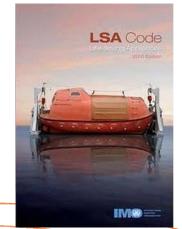
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#### What is SOLAS?

- The International Convention for the Safety of Life at Sea (SOLAS)
- Ensures that ships flagged by them comply with minimum safety standards in construction, equipment and operation.
- The SOLAS international convention is administered by the International

Maritime Organization (IMO)



## LSA according to different regulations

Norwegian Continental Shelf (PSA requirements)

**DNV-OS-E406 / Norsok R-002 / NMD 853** 

**UK Sector (HSE) – NOPSEMA Australia** 

**Brazil waters**, Petrobras

**Gulf of Mexico (US GOM)** 

**IMO Solas Modu Code** 

**IMO Solas LSA Code** 



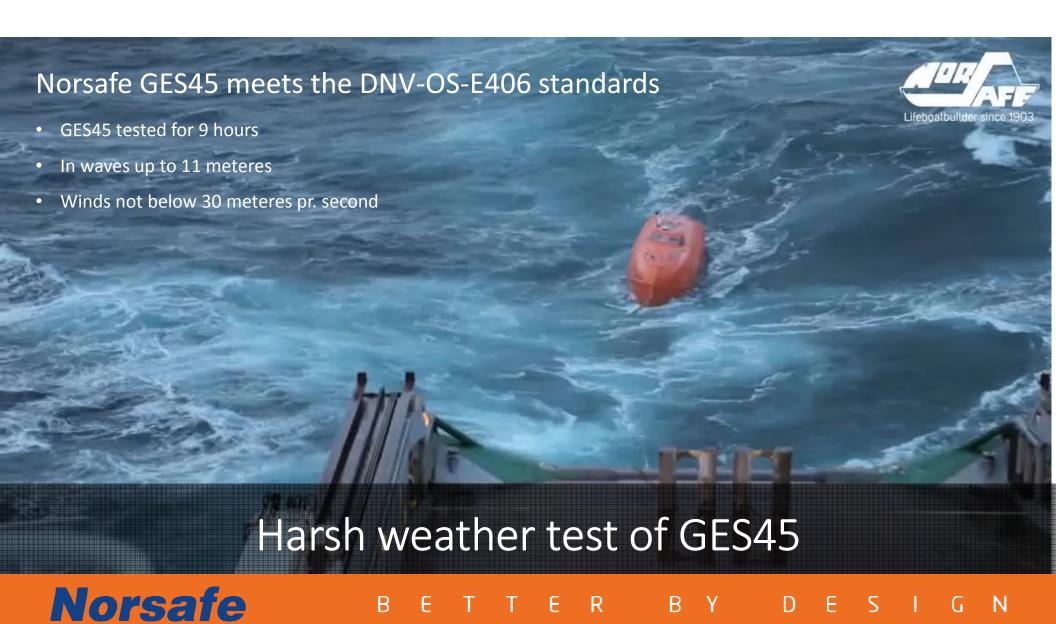
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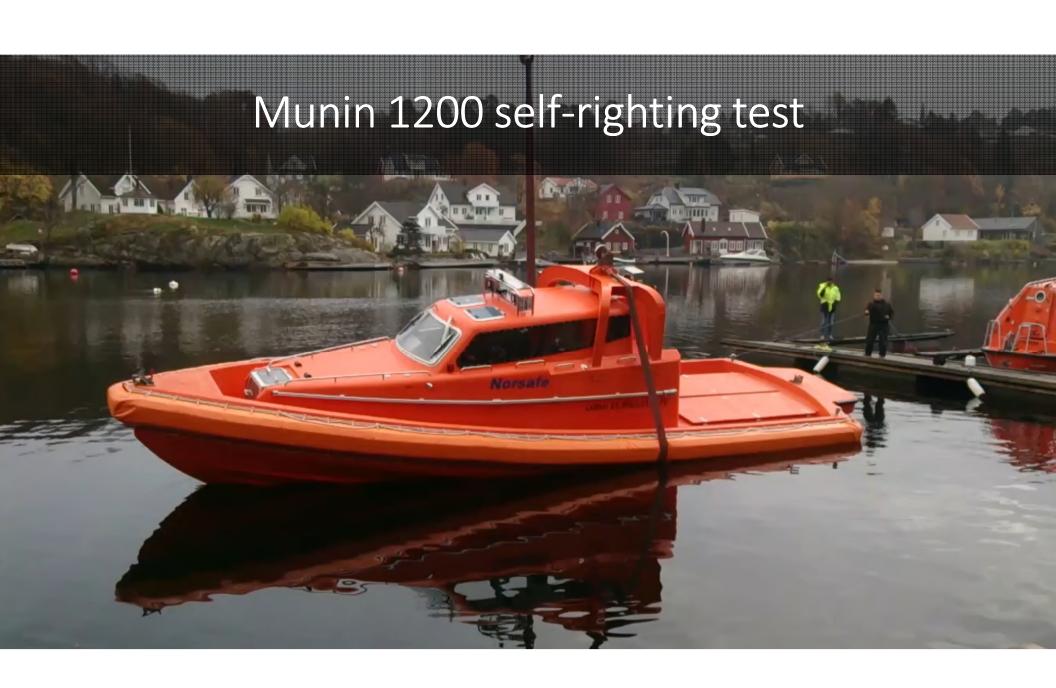
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#### Some LSA features on our boats

- Single point lifting gear
- Self-righting capabilities
- Engines stop at approx. 90deg. (engines can be started after capsizing)
- Run engine for min. 5 minutes out of water (in davit)
- Buoyant in damaged condition
- Fire retardant resin
- Impact and drop test





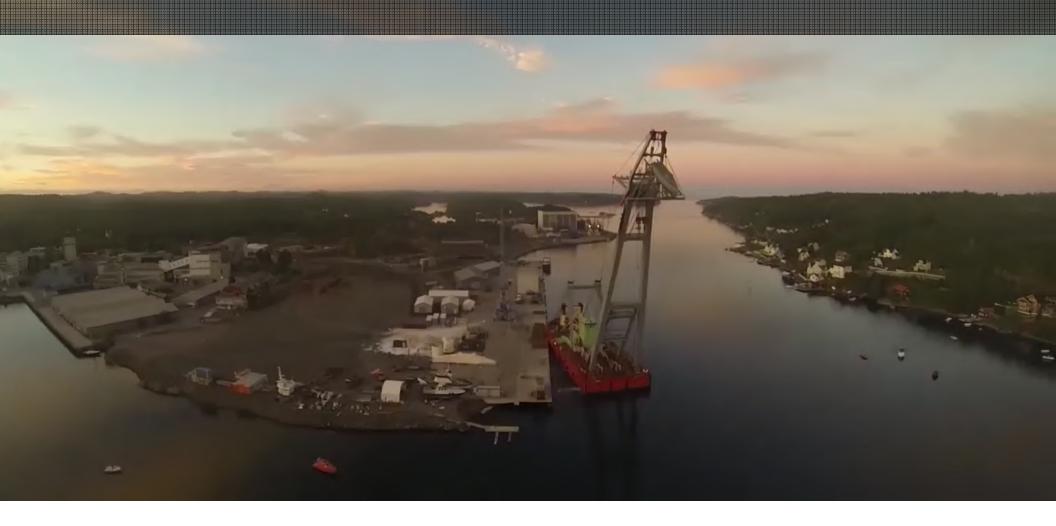
#### Magnum 750 MKII fender and drop test

### Hull design

- Norsafe has a well proven deep-V hull design. Ranging from
  6.5-12 meter hulls.
- Norsafe hulls are vacuum infused.
- All non stepped hulls are optimized for several different propulsion packages such as waterjet, stern drive or outboard.
- The Norsafe stepped hull technology is optimized for sterndrive, outboard and surface drive installations.
- Norsafe hull technology has evolved from year long research and development into GRP structures in freefall life boat systems.

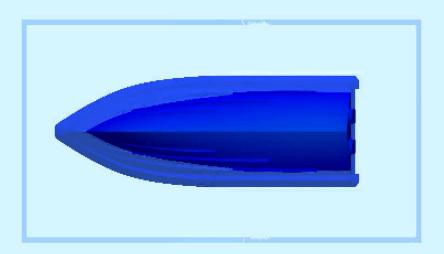


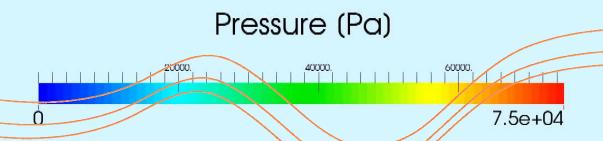
#### GES 52 world record drop from 66,8 meters



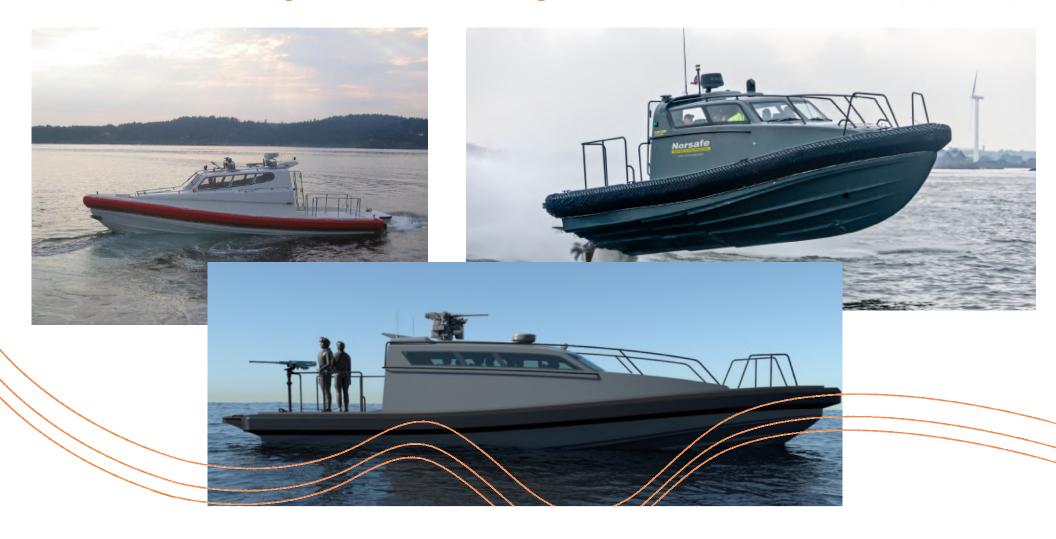
## **CFD** analysis





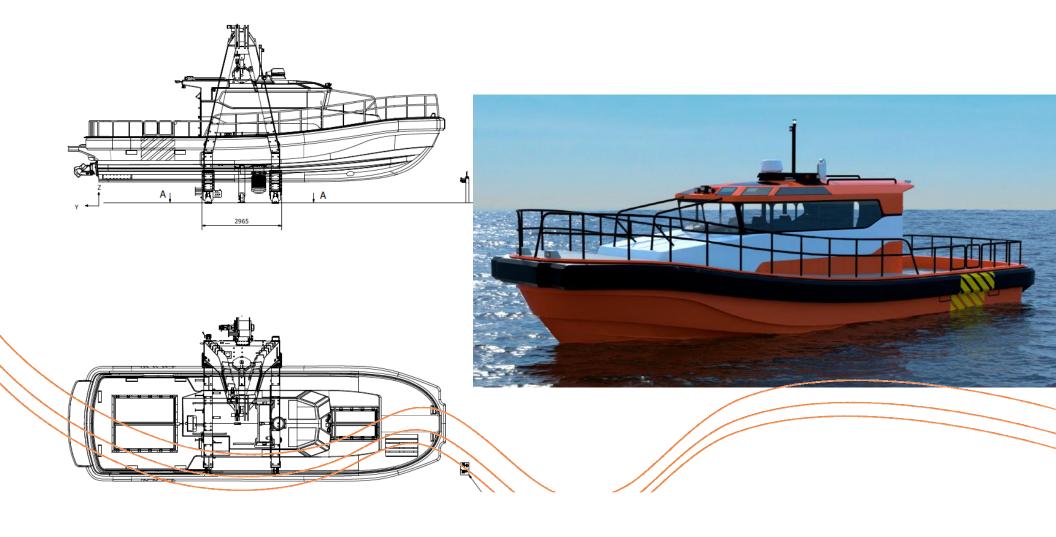


# **Mission Specific Projects**



Integrated solutions

# Integrated solutions





## Thank you for your attention

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- Feel free to follow us on social media.





