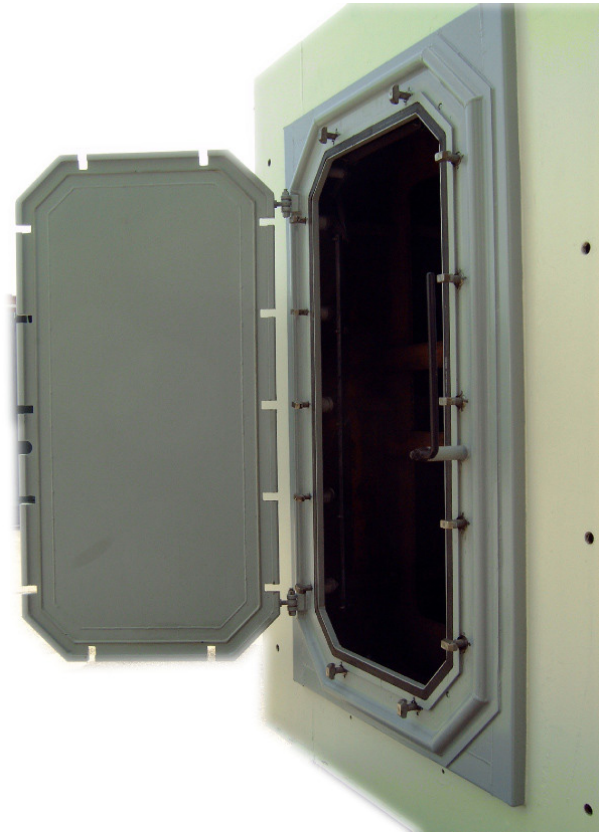


# Frigates for Navantia Ferrol shipyard S.A.

Nansen Class Anti-Submarine Warfare Frigates

Version 30/3/2021

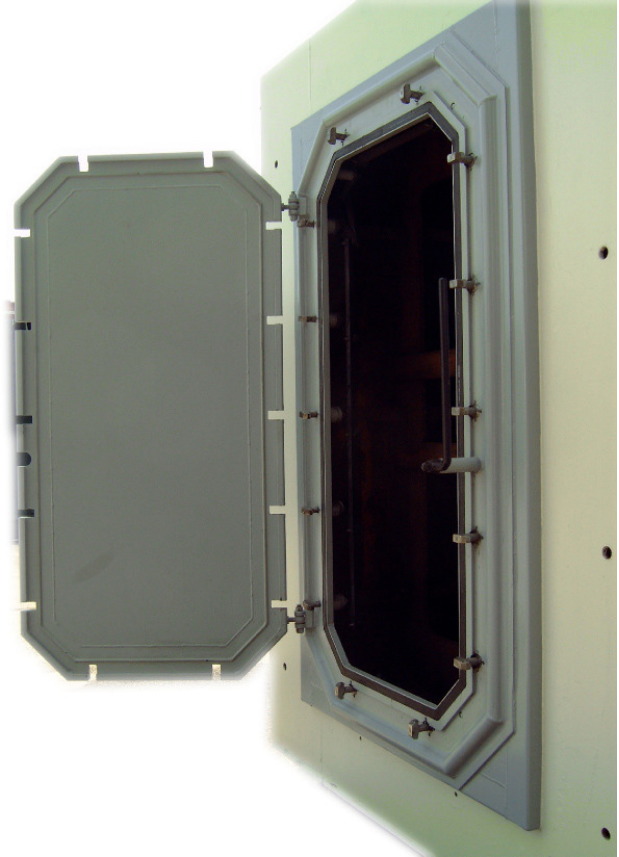


- Project Nansen Class Anti-Submarine Warfare Frigates
- Client Navantia Ferrol shipyard S.A.
- Operator Royal Norwegian Navy (RNoN)
- Completed 2005 - 2009
- Delivery 50 pcs Nadam 4, Blast resistant membrane doors
- Materials High strength steels
- Details F310 HNoMS Fridtjof Nansen  
F311 HNoMS Roald Amundsen  
F312 HNoMS Otto Sverdrup  
F313 HNoMS Helge Ingstad  
F314 HnoMS Thor Heyerdahl

# Defence Destroyer for BAE Systems

Type 45 Air Defence Destroyer, D class

Version 30/3/2021



- Project Type 45 Air Defence Destroyer, D class
- Client BAE Systems
- Operator Royal Navy (RN, UK)
- Completed 2006 - 2011
- Delivery 126 Nadam 4, Blast resistant membrane doors
- Materials High strength steels
- Details Hr.Ms. Daring  
Hr.Ms. Dauntless  
Hr.Ms. Diamond  
Hr.Ms. Dragon  
Hr.Ms. Defender  
Hr.Ms. Duncan

# Class Aircraft Carriers for Babcock I.T.

Queen Elizabeth Class Aircraft Carriers

Version 30/3/2021



- Project Queen Elizabeth Class Aircraft Carriers
- Client Babcock Integrated Technology
- Operator Royal Navy UK
- Completed 2013
- Delivery 38 pieces of special water tight, fire rated and hydraulically operated doors and hatches
- Materials Mild steel, high strength steel, stainless steel
- Details The largest doors have a door leaf width of 6 m1, a total width of appr. 11 m1, a height of 3 m1 and a weight of appr. 6.5 tons. The largest hatches measure appr. 6x3.5 m1 weighing appr. 10 tons. All doors and hatches are part of a fully automatized hydraulic system and have blast proof sensors for controls