



INDUSTRIAL MACHINERY

NATO submarine rescue system

A new submarine rescue system has been developed for use by NATO. The system is built from 5 mm grade SAF2205 stainless steel which was selected because of its strength. Weight was an important consideration in material selection as the system is normally flown to the rescue site. Due to the high strength of SAF2205, thinner gauges could be used, making the end product lighter.

The 100 m³ hyperbaric complex consists of five connected chambers. Each chamber can be isolated from the others independently. Up to 72 people can be accommodated in the system.

The system has been developed to the relevant industry standards. Hydro tests were run on the system and all were completed successfully.

LOCATION/ENVIRONMENT SOUTH AFRICA/OUTDOOR

PRODUCT HOT ROLLED STAINLESS STEEL PLATE, 5 MM

FABRICATION PROCESS WELDING

GRADE SAF 2205 DUPLEX STAINLESS STEEL

SURFACE ASTM 1

COMPETING MATERIAL

DATE OF COMPLETION APRIL 2006

MANUFACTURING COMPANY H G MOLENAAR

MATERIAL SUPPLIER IMPORTED FROM SWEDEN

SOURCE OF INFORMATION SASSDA

REMARKS

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TRANSPORT

Fishing boat

The choice of stainless steel for the plating and the structural strengthening elements was driven by the need for greater resistance and durability. Stainless steel also offered easier maintenance and, above all, a lighter product. Inside the boat the galley area and wash-basin are made of stainless steel. This boat is safe, comfortable and practical.

LOCATION/ENVIRONMENT ITALY/OUTDOOR

PRODUCT COLD ROLLED STAINLESS STEEL SHEET, TUBES, FULL RODS AND SCREWS IN AUSTENITIC MOLYBDENUM EN 1.4401 (AISI 316) STAINLESS STEEL

FABRICATION PROCESS CUTTING, WELDING

GRADE AISI 304 (EN 1.4301)

SURFACE THE SURFACES WERE SAND-BLASTED TO ASSIST THE APPLICATION OF THE EPOXY PAINTS

COMPETING MATERIAL CARBON STEEL, WOOD

DATE OF COMPLETION JANUARY 2006

MANUFACTURING COMPANY CARPENTINOX (WWW.CARPENTINOX.IT)

MATERIAL SUPPLIER

SOURCE OF INFORMATION EURO INOX, CENTRO INOX

REMARKS

