CaseStudy

SIMONA

elimat

Efficient boat building made simple – with SIMONA® PE FOAM

Top: Boat with a deep V-design hull made of SIMONA® PE-HWU; bottom left: navigation bridge from the outside; bottom right: navigation bridge from the inside

In response to growing demand within the domestic marine industry, the Spanish company Elimat manufactures work, rescue and transport boats made of PE-HD. One of the boats supplied by the company features SIMONA® PE-HWU for the hull and SIMONA® PE FOAM in different thicknesses for the interior fittings for the purpose of achieving greater efficiency.

The project at a glance

Project
Boats made of SIMONA® PE-HWU and SIMONA® PE FOAM up to a length of 9.20 m

Requirements
- Good finishing
- Chemical resistance and high corrosion resistance
- No water absorption
- Low adhesion
- Low weight
- UV-stabilised and weather-resistant
- High rigidity and strength
- Easy to process
- Durable

Client
Observatorio Ambiental Granadilla, Santa Cruz de Tenerife (Spain)

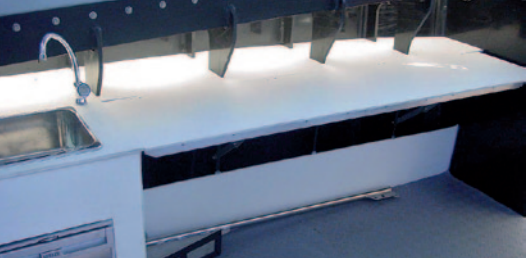
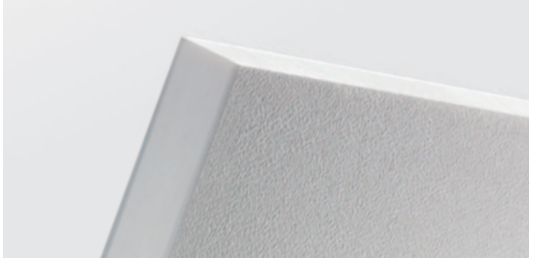
Contractor
ELIMAT EQUIPAMIENTOS S.L., A Coruña (Spain)

Technical support
- SIMONA IBERICA SEMIELABORADOS S.L. (Spain)
- SIMONA AG, Technical Service Center

Products used
- SIMONA® PE-HWU sheets
- SIMONA® PE FOAM sheets

Project time
12 weeks

More overleaf ▶


From left to right: Worktop made of SIMONA® PE FOAM; SIMONA® PE FOAM sheet; dashboard made of SIMONA® PE FOAM

SIMONA® PE FOAM sheets – light, UV-stabilised and durable

Initial situation

The Granadilla Environmental Observatory was looking for a boat suitable for its marine operations. Its activities include diving missions as well as technical and scientific support offered during the construction of the port of Granadilla. The Observatory also operates and maintains an extensive network of buoys containing environmental control instruments used for targeted data collection. Elimat received the contract for a high-specification vessel with a premium-quality.

Task

When designing the interiors of the bridge, Elimat wanted a solution featuring the same type of material as the hull for the purpose of achieving greater efficiency in processing. Additionally, the material had to offer the following properties:

- Good surface finish
- Low weight
- UV stabilisation
- Easy cleaning
- Low maintenance
- High resistance

Solution

Granadilla Environmental Observatory found the solution to their needs in the Elimat® P850i. Featuring a deep V-design hull made with SIMONA® PE-HWU, this boat is particularly well suited to operations in adverse sea conditions. SIMONA® PE FOAM for the interior of the navigation combines excellent processing properties with the benefits of high surface quality and low water absorption. Furthermore, the material features UV stabilisation as standard and has a scratch-resistant embossed surface. The outstanding combination of low weight and high rigidity makes SIMONA® PE FOAM the perfect choice for material-efficient boat building.

SIMONA® PE FOAM

Properties

- Very easy to process
- Excellent surface quality
- High flexural strength
- Corrosion-free
- Easy to clean
- UV-resistant
- Printable after pre-treatment

Fields of application

- Boat building (partitions, bulkheads, control desks, etc.)
- Banner material
- Toilet containers, toilet walls and toilet doors
- Partitions in agriculture and livestock farming

Product range

- Extruded sheets in thicknesses 6, 8 and 10 mm

Further Information

SIMONA AG
Technical Service Center
Phone +49 (0) 6752 14-587
Fax +49 (0) 6752 14-302
tsc@simona.de

ELIMAT EQUIPAMIENTOS S.L.
Crta. de Arteixo, km 3.5, nave 4
15142 Arteixo, A Coruña
Phone +34 (0) 981 27 10 01
Fax +34 (0) 981 27 10 01
info@elimat.es
www.elimat.es

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