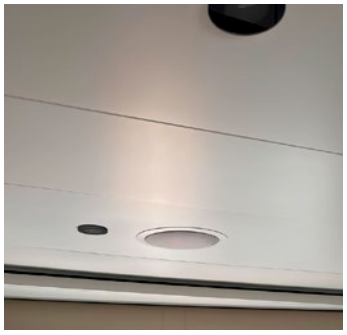
CaseStudy

SIMONA

AES yacht

SIMONA® CELPLAST® in yacht construction: A high-quality material solution for interior and exterior applications







Left: SIMONA® CELPLAST® as ceiling cladding in the yacht's main salon with integrated light channels, ceiling spotlights and speakers; right: detailed view of the integrated ceiling spotlights and speakers

As part of the refit of a 35-metre yacht, AES Yacht, a key contributor to Türkiye's largest mega-yacht new-build and refit projects, brought its extensive project experience to this demanding undertaking. For the refit, the yacht specialist was looking for a material that would fully meet the demanding requirements of modern yacht construction. In addition to a high-quality appearance, weight, ease of processing and resistance to the challenging conditions of the maritime environment played a decisive role. With SIMONA® CELPLAST®, the company found a solution that is suitable both for high-quality interior fittings and demanding exterior applications.

The project at a glance

Project
Refit of a 35-metre yacht using SIMONA® CELPLAST® for ceiling applications and construction details in interior and exterior areas.

Requirements
- Low material weight
- Easy processing and precise adaptability
- Resistance to moisture and maritime environmental influences
- High-quality appearance for sophisticated interiors
- Integration of lighting, speakers and technical installations
- Long-term performance in interior and exterior applications

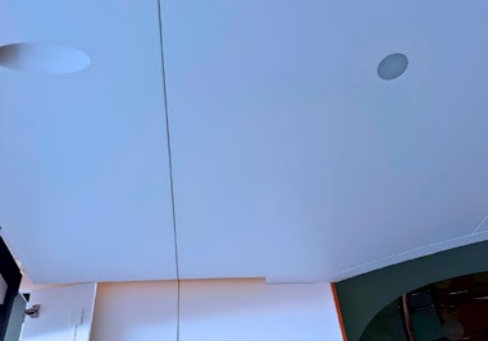
Contractor
AES Yacht
Istanbul
Türkiye

Technical support
SIMONA AG
Kirn
Germany

Products used
- SIMONA® CELPLAST®

Fields of application
- Main salon (interior)
  - Ceiling paneling
  - Ceiling and corner joint details
- Aft cockpit (exterior)
  - Ceiling paneling

Continued overleaf ▶





From left to right: SIMONA® CELPLAST® Sheets used for ceiling and corner connection details; ceiling cladding made of SIMONA® CELPLAST® Sheets in the exterior area

SIMONA® CELPLAST® – Lightweight. Stable. Multifunctional.

Initial situation

Durable solutions were to be implemented both in the interior and in exterior applications within a maritime environment, with the ability to adapt precisely to the yacht's structural conditions. At the same time, lighting, audio and ceiling systems had to be integrated seamlessly.

Task

The aim of the project was to implement high-quality ceiling and construction solutions for various areas of the yacht. The material used needed to be easy to process while also meeting the requirements for design, functionality and durability.

Importance was attached to the integration of technical components such as speakers, ceiling spotlights and concealed light channels. In addition, the material used outdoors had to provide long-term resistance to moisture, salty air and changing weather conditions.

Solution

For the implementation, AES Yacht chose SIMONA® CELPLAST®. According to Alper Kömürcü, Interior Manager at AES Yacht, the material was used for ceiling applications both indoors and outdoors. The decisive factors were its ease of processing, low weight, resistance under maritime conditions and attractive appearance.

In the main salon, SIMONA® CELPLAST® was used for the ceiling cladding. The sheets enabled the precise integration of ceiling spotlights and concealed light channels, sup-porting the high-quality design of the interior.

The material also demonstrated its advantages in ceiling and corner connection details. Thanks to its ease of processing, transitions and connection areas could be executed cleanly.

In the exterior area, SIMONA® CELPLAST® sheets were used for the ceiling cladding of the yacht's aft cockpit. The combination of low weight and resistance to moisture, salt and weathering provided a durable and functional solution for maritime applications. By using SIMONA® CELPLAST®, AES Yacht was able to reliably meet the project's design and technical requirements and implement high-quality interior and exterior areas.

SIMONA® CELPLAST®

Properties

- Low weight combined with high rigidity and stability
- Easy to machine and process
- High-quality satin surface
- Moisture- and corrosion-resistant
- Suitable for interior and exterior applications

Fields of application

- Ceiling and wall cladding
- Interior finishing and spatial design
- Boat and shipbuilding
- Vehicle interiors and mobility applications

Product range

- **SIMONA® CELPLAST® 9002**
  (interior applications)
  3,050 × 1,220 mm,
  10 to 24 mm
  3,050 × 1,560 mm,
  10 to 19 mm

- **SIMONA® CELPLAST® 2542**
  (exterior applications)
  3,000 × 1,250 mm,
  10 to 24 mm
  3,000 × 1,560 mm,
  10 to 19 mm

Further Information

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