

CORVO ISLAND AERODROME

2011

Location

Azores, Portugal

Client

SATA – Gestão de Aeródromos, SA (SATA – Aerodrome Management)

Estimated Cost

2.9 million EUR

Stage

Public Tender

Area

1500 m²

The design for the air terminal, ground support equipment storage house and aircraft rescue and fire fighting service (ARFFS) building aimed to provide a functional, efficient, engaging and contemporary solution that worked as a coherent and articulated set.

These new buildings were designed not as separate facilities, but as parts of a whole, in order to solve pre-existing problems, such as the insufficiency and lack of articulation between the current infrastructures. Thus significantly upgraded, the aerodrome visibly benefitted from the adequate and harmonious conjunction of the proposed new facilities.

Given the distinctive features of the territory, careful integration of the architectural intervention into the location was a priority. The premises of the intervention, as well as those of the call for tenders, determined the need to intervene with surgical precision on the

landscape, reformulating the design and creating new buildings and infrastructures.

The air terminal hall was designed for an expected occupancy of 50 to 55 people. Additionally, this air terminal encompasses two check-in counters, a multipurpose room, a boarding room, a CIP (Commercially Important People) room, operation and administration offices, a disembarkation room, a baggage collection room, a baggage terminal, security facilities and a ground support equipment storage house.

The proposed layout for each building resulted from the optimisation of structural design and architecture. With this proposal, A1V2 devised a building that stands out for its complete integration into the landscape, valuing and highlighting both natural patrimony and the existing construction.

MAIN ACCESS
TO THE TERMINAL



AERIAL VIEW



AERÓDROMO DO CORVO

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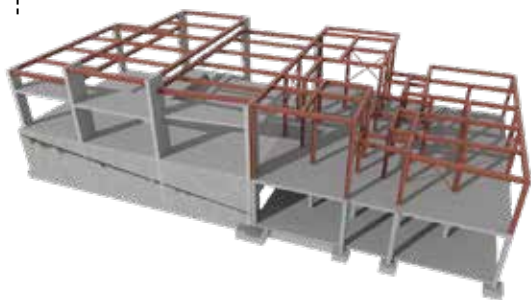
1500 m²

This proposal involved the design of a new passengers terminal and storage building for the Aerodrome of Corvo Island, Azores, as well as the refurbishment and extension of the existing building to receive the aircraft rescue and fire fighting services (ARFFS).

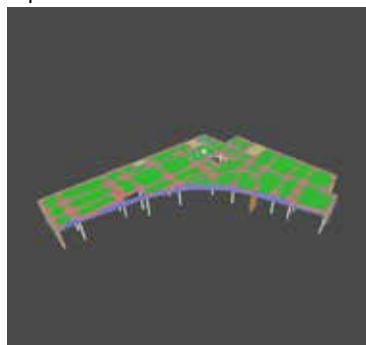
The proposed layout for each building resulted from the optimisation of structural design and architecture. We opted to use reinforced concrete portal frames and hollow block slabs in the terminal. The cantilevers were designed as steel trusses fixed directly to the concrete structure.

The works on the ARFFS building involved the refurbishment and reinforcement of an existing structure up to the ground floor. The building extension was designed as steel portal frames with the steel columns prolonging from the existing ones. The slabs and beams were designed as composite sections.

3D VIEW



3D VIEW – TERMINAL BUILDING



FINITE ELEMENT MODEL (SAP 2000)

