



2021 PRIVATE JET DESIGN CONCEPT WINNER

A220 CORPORATE CABIN CONCEPT BY KESTREL AVIATION MANAGEMENT, PIERREJEAN VISION & CAMBER AVIATION MANAGEMENT



Project Name: A220 Corporate Cabin Concept

Date Completed: June 2020

Designers: Kestrel Aviation Management, Pierrejean Vision & Camber Aviation Management

Associated Companies: F/List & Flying Colours Corporation

Two years ago, the project manager, technical manager and designer behind the first VVIP Boeing BBJ787, cabin, showcased at EBACE 2016, partnered again to develop this innovative A220 Corporate Cabin Concept. Subsequently, F/List (as cabin fabricator) and Flying Colours (as integrator and certification entity) joined the group. This partnership has invested over 18 months of detailed design work on this project.

The Bombardier C Series (now Airbus A220) was chosen as a conversion platform due to many factors; its modern, state of the art technology comparable to competitors; it has an equivalent cabin volume to the Airbus A319Neo or Boeing BBJ Max7; it has an exceptional take-off performance from hot, high and short runways and it has the adaptability of a passenger cabin to a corporate aircraft layout.

There were many design objectives for the A220 Corporate Cabin Concept; it had to be innovative and it needed to differentiate itself from competitors, with the state-of-the-art systems and materials and better cabin aesthetic customisation options. The team wanted to reduce the elapsed time of cabin modification but also the weight of the cabin by 30% compared to legacy designs.

The design focuses on a unique seven-zone modular cabin comprised of three fixed and four variable zones; with the forward, mid and aft zones- entrance/galley, lavatory/wardrobe and private suite with ensuite washroom, respectively, fixed and the zones between being variable.

The modular cabin concept was developed to simplify cabin design, reduce completion build times and lower production and NRE costs over a number of aircraft which, together, are crucial in reducing manufacturing, integration and certification costs. These aspects are all essential in achieving the right price point in the market while providing a bespoke and highly capable aircraft. The objective of the parties is also to reduce product support costs post EIS, to achieve greater reliability through common parts and well thought out production-ready modular design.

Critically, the customer gains the ability to customise the cabin to suit his unique requirements to reflect the true purpose of the aircraft whether for private, government or business use, or a bespoke solution for any of these.

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