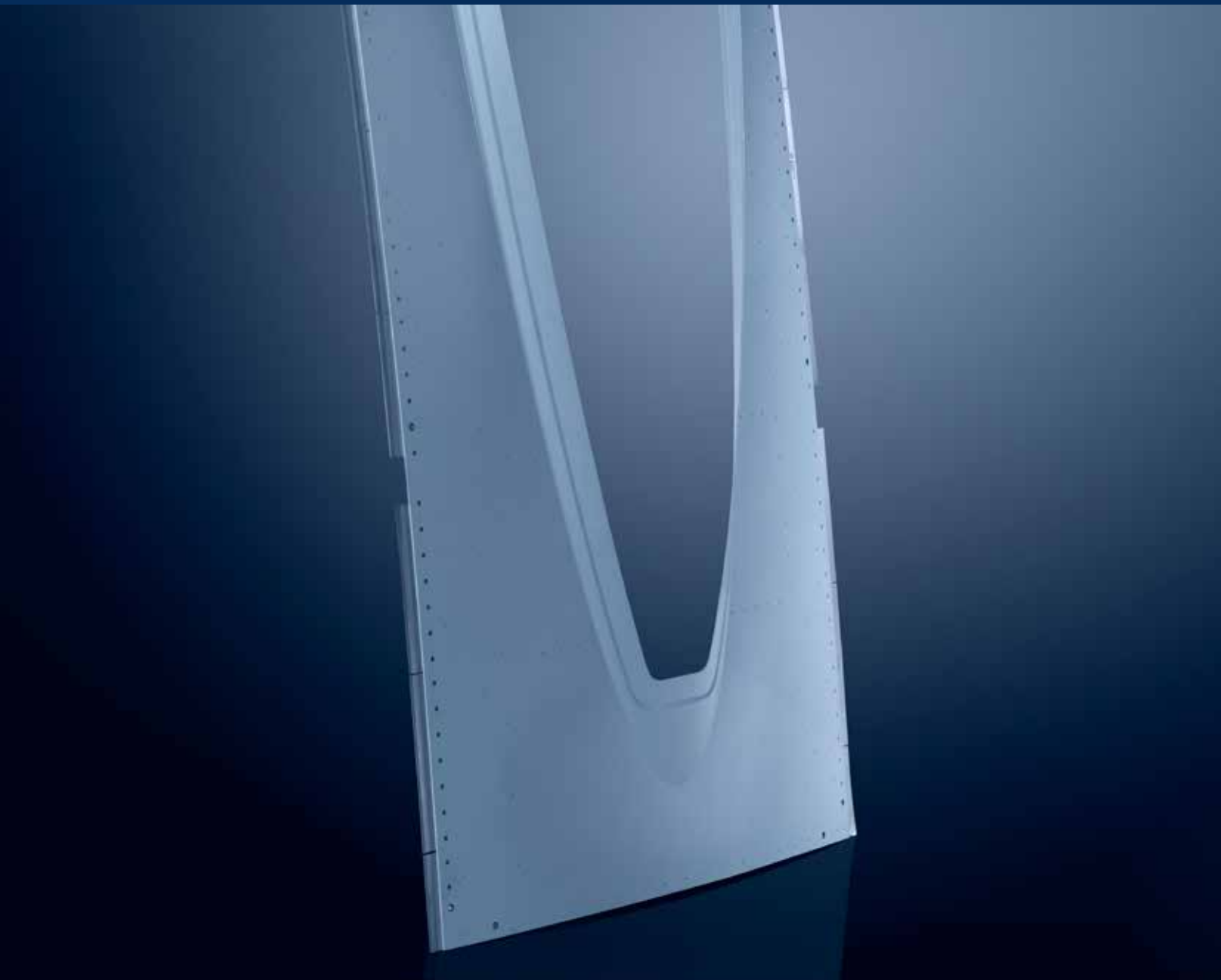


ADVANCED COMPOSITES



TENCATE CETEX® THERMOPLASTICS FOR AEROSPACE

Airbus A380 engine pylon cover



TENCATE CETEX® THERMOPLASTICS FOR AEROSPACE

Airbus A380 engine pylon cover

TenCate Advanced Composites are an industry leading developer and producer of TenCate Cetex® advanced thermoplastic composite materials for the aerospace industry. The portfolio consists of unidirectional and fabric based prepregs & tapes, semipregs, laminates and sandwich panels, with aerospace grade PEEK, PEKK, PPS and PEI thermoplastic resins.

With over a million parts in flight, the aerospace industry uses TenCate Cetex® composites for applications ranging from structural components, such as wing leading edges, engine pylon structures, cargo flooring, clips and cleats for fuselage structure, acoustic structures, to interior galleys and seats.

The Airbus A380 engine pylon cover is manufactured by Daher (Nantes, France) using TenCate Cetex® PPS / carbon laminate. TenCate Cetex® TC1100 was selected due to its outstanding toughness and excellent chemical and solvent resistance.

The material is inherently flame resistant with low smoke emission, exceeds 35/35 OSU and is qualified at Airbus and Boeing for multiple structural applications. It can also be processed by press stamp forming, which was a requirement for the production of the pylon cover.

This part is one of 50 panels on each A380 pylon for both engines, and features an infused bronze mesh top layer for lightning strike protection.

NAME	RESIN	KEY FEATURES
TenCate Cetex® TC1225	Engineered PAEK	High performance mechanics with lower processing temperatures. Overmouldable with PEEK resin.
TenCate Cetex® TC 1200	PEEK	Excellent resistance to chemicals and solvents, flame retardant and combines outstanding toughness with high temperature performance for primary, secondary and internal aircraft structures.
TenCate Cetex® TC 1100	PPS	Airbus and Boeing qualified for multiple structural applications. Excellent solvent resistance and low moisture absorption. Flame resistant with low smoke emission.
TenCate Cetex® TC 1000 - Premium	PEI	Airbus and Boeing qualified for secondary aircraft structures and interiors. Outstanding toughness and excellent FST performance with good high temperature performance and bondability.
TenCate Cetex® TC 1000 - Design	PEI	Good impact toughness and excellent FST performance for secondary aircraft structures. Value orientated for interiors.
TenCate Cetex® TC 925 - FST	PC	Best in class FST performance for interior applications. Available with translucent and true white colour options.

