

Case Study:

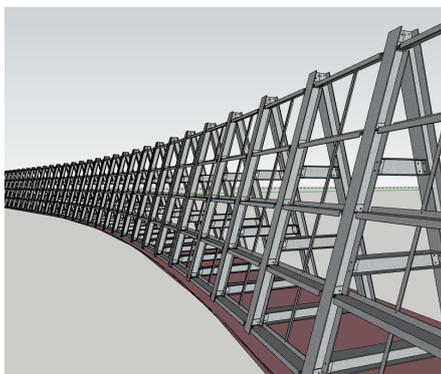
Copenhagen Airport

A 286-meter-long Blast Wall, first of its kind in Denmark, installed at the new Pier E





The Blast Wall is first of its kind in Denmark, uniquely designed in radar-invisible fiberglass.



Since 1925, Copenhagen Airport has created travel opportunities, business, and experiences for millions of people. It is the main international airport serving Copenhagen, Zealand and a large part of Southern Sweden, and the largest airport in the Nordic Countries with close to 30,3 million of passengers per year (2019).

In December 2016 Copenhagen Airport announced an ambitious project to expand the airport to meet the future, aiming to be one of the most efficient, service-oriented, and sustainable airports in the world. As a part of this, the construction of the new Pier E will accommodate 10 gates for large aircrafts and 20 for smaller aircrafts on European routes. The first phase of Pier E was completed in 2019 adding 22,000 m² to the airport with 7 gates and 800

seats. The second phase is currently in progress and will be finished in late 2020.

As a part of Phase 2, IAC Acoustics was commissioned to handle the design, project management and installation of a 286-meter-long Blast Wall. The radar invisible jet blast deflector fence is engineered to withstand jet blast, protecting buildings, navigation equipment, vehicle traffic and ground personnel of the airport.

The Blast Wall is first of its kind in Denmark, uniquely designed in radar-invisible fiberglass. The transparent fiberglass makes it possible for aircraft and equipment to navigate alongside each other in the busy airport areas, providing safety as well as an efficient workflow.

IAC Acoustics responded to the unique criteria put forward by Copenhagen Airport to develop a bespoke solution from the range of standard Jet blast deflector products in the IAC portfolio. The final design of fibreglass deflector offers many key advantages over traditional metal barriers that were key to meeting the Copenhagen Airport requirements, these include:

- Zero radar footprint - non-conductive and non-magnetic to radar and radio frequencies
- No corrosion - an indefinite operational lifetime with almost zero maintenance over many years
- The materials can be recycled at disposal



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