



FOAMGLAS®

Dublin Airport – Terminal 2

PROJECT PROFILE

FOAMGLAS® Chosen for Safety and Sustainability at Ireland's Premier International Airport.

Over the past decade, passenger traffic at Dublin airport has increased twofold, making it the 8th largest airport facility in Europe for international travel. Recently, a substantial projected increase in passenger traffic necessitated a large redevelopment project of the existing facilities.

Fire safety and sustainability were important considerations in the airport build-out, which led to FOAMGLAS® insulation being selected as the insulation materials for internal and external pipe work in the terminals, piers and energy center.

Terminal 2 is seen as the centerpiece of the redevelopment project. It will comprise 9,000m² of retail and catering space, 58 check-in desks, new baggage handling area, and energy center facilities. Construction on Terminal 2 started in 2007, and approximately 13km of FOAMGLAS® piping insulation has been applied. Much of the pipe work was pre-insulated off-site and shipped to the site in modules, which are then easily and quickly lifted into place. The high compressive strength of FOAMGLAS®, one of its unique features, made this process possible without compromising the durability of the insulation system.

Engineering Design & Specifications

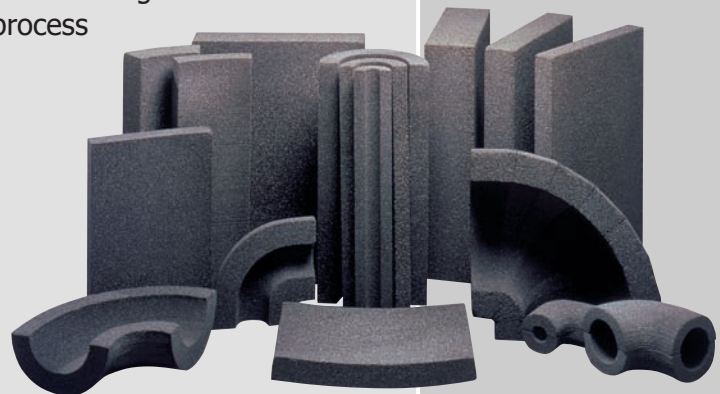
Ové Arup & Partners

Insulation Contractor

CW Insulation Services

Insulation Distributor/Fabricator

Encon Ireland/
Pittsburgh Corning (UK) Ltd





Airport Fire Safety

Airports are host to thousands of passengers each day while awaiting flights and passing time in shops and restaurants within the confines of a secure terminal building.

In 1996, a catastrophic fire at Dusseldorf airport was caused by the use of plastic-foam insulation in ceiling voids, which had been ignited by sparks from welding equipment. The fire and smoke caused 17 fatalities and an estimated £200m in structural damage. When Dusseldorf airport was rebuilt, FOAMGLAS® insulation was specified for the roof, terraces, basements, as well as the ventilation and air conditioning systems – all places considered to be most at risk from fire.

At London's Heathrow airport, the Terminal 5 control tower is an imposing 65m high structure utilizing FOAMGLAS® insulation for its fire safe and thermal conductive characteristics. The Industrial Fire Journal reports that "FOAMGLAS® was picked because of its complete non-combustibility. FOAMGLAS® is the only true 100% closed-cell, non-combustible (Euroclass A1) insulation material; its thermal conductivity is also uniquely constant over time."

FOAMGLAS® is at the heart of insulation systems in airport terminals world-wide, providing operational integrity, protection, and safety for passenger and airport personnel.

Dublin Airport: Safety for the Future

The exceptional fire-resistant and impermeable properties of FOAMGLAS® insulation made it the logical choice for Dublin airport. Pipe work from small-bore up to 14" diameter was insulated with up to 70mm of FOAMGLAS® with a factory-applied foil finish being used on the building's interior. In addition, metal cladding was applied on insulated pipe outside of the buildings, such as the long runs between the energy center and terminal. In addition to insulating the hot/cold service pipe, the internal roof drain pipes were also insulated with FOAMGLAS®. Dublin airport has truly achieved the highest levels of fire safety and environmental credibility with the use of FOAMGLAS® insulation; a product made with 2/3 post-consumer glass waste, which has unique constant thermal conductivity features that can last for decades.

FOAMGLAS®

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