

FOAMGLAS® INVATHERM™

YOUR A1 INSULATION FOR INVERTED ROOF SYSTEM

CASE STUDY

TEST ROOF IN THE AUSTRIAN ALPS

Location: Austrian Alps (Innsbruck)
Application: FOAMGLAS® INVATHERM™
Installed: 2017
Inspected: June 2019

Wide temperature variations

- Maximum roof surface temperature 40°C.
- Minimum temperature -20°C.
- During a single day, the temperature varied between -15°C to +10°C, a temperature change of 25°C over 24 hours.

High levels of humidity

- In the test location, the inverted roof system was exposed to high levels of snowfall, rainfall and moisture.
- On one summer day, a temperature of 37°C and relative humidity (RH) of 100% was recorded.

Performance

- Cold temperatures and the presence of moisture caused no physical change to the insulation materials.



Benefits of FOAMGLAS® INVATHERM™ Insulation

- FOAMGLAS® INVATHERM™ is a Euroclass A1 insulation, it does not combust, give off toxic fumes, or contribute to the spread of the fire. It is free from ecologically harmful blowing agents and flame retardants.
- FOAMGLAS® INVATHERM™ is manufactured using FOAMGLAS® Cellular Glass insulation which is a truly closed cell insulation with naturally hermetically sealed glass cells. It cannot absorb water or water vapour.
- FOAMGLAS® INVATHERM™ is a rigid insulation, there is no compression. It fully supports the pedestals and paved walking surfaces.
- There are no adhesives. The insulation material is loose laid, and so can be installed at any time of year.
- The insulation layers act as a protection board over the waterproofing system. Refurbishment or upgrade is simply a matter of lifting the loose laid insulation.
- FOAMGLAS Cellular Glass insulation consists of a minimum of 60% recycled glass.
- FOAMGLAS Cellular Glass insulation was first manufactured in America in 1928. The first European manufacturing plant opened in 1964.



NON-COMBUSTIBLE **ECOLOGICAL**