

Project Profile

BladeRoom Data Centres
Worldwide



SIG Rhepanol system waterproofs BladeRoom Data Centres worldwide



Project Name: Bladeroom Data Centres
Location: Worldwide
Product: Rhepanol fk

A bespoke Rhepanol fk single ply roofing membrane system designed by SIG Design & Technology is the preferred waterproofing for BladeRoom Data Centres.

The BladeRoom is an extremely energy efficient, scalable data centre product, assembled almost entirely from pre-engineered components in a controlled factory environment. BladeRoom Data Centres can be operational between 12-18 weeks and are shipped and installed all over the world.

The BladeRoom utilises approximately 70m² of Rhepanol fk to waterproof each roof chassis. Rhepanol fk was chosen because this premium quality single ply with UV stability can withstand extremes of temperature even as low as minus 60⁰C, making it suitable for all applications whatever the regional climate. SIG Design & Technology designed and supplied all the components to insulate and weather seal the roof, comprising Cut To Falls insulation, a bonded Rhepanol system and metal rainwater accessories.

Rhepanol fk offers ease of installation. Each BladeRoom roof was first waterproofed in the factory. Once on site, the membrane surfaces on the adjacent BladeRoom roofs were simply joined together using double-edged Rhepanol. The membrane's seam is guaranteed to be fully waterproof without the need for hot works. The system's been tried and tested for over 50 years and its reliability has been proven.

Eco-friendly, Rhepanol is the only membrane in the world made from PIB and with a Life Cycle Assessment to DIN ES ISO 14 040ff.

Sean Bailey, Contracts Director for BladeRoom Group, said: 'The BladeRoom Data Centre product is assembled to tight timescales and must meet the highest levels of quality and resilience for many years to come. We have invested in Rhepanol's credentials in terms of longevity and ease of installation, both under factory conditions and on site. Many of our clients need to allow for future growth. Additional BladeRoom bays roofed with Rhepanol fk can be installed seamlessly to the live BladeRoom Data Centre without downtime or disruption.' (www.bladeroom.com).