PROWALL

CASE STUDY

ROYAL PRESTON HOSPITAL

DURABLE RENDERED RAINSCREEN FAÇADE



PROJECT FACTS

Project Type
Healthcare / NHS Expansion

Location
Preston, Lancashire

Building Type
Hospital

System Installed
ProWall Rendered Rainscreen System

Installer
NPC

Finish
ProRend Colourtex Silicone Render
Custom RAL Colour

Substrate
Steel Frame

Support Structure
Aluminium Helping Hand Frame

SAS RENDER SYSTEMS

PROJECT OVERVIEW

Healthcare buildings demand façade systems that combine durability, weather protection and long-term reliability with an attractive architectural finish.

For Royal Preston Hospital, SAS Europe supplied its ProWall Rendered Rainscreen System installed onto an aluminium Helping Hand support framework. The specification incorporated ProBoard cement render boards, a reinforced ProRend Lite basecoat with ProMesh Grade 3 reinforcement and a ProRend Colourtex Uniform silicone finish to create a fully ventilated rendered façade.

Designed specifically for steel and timber frame construction, the ProWall system provides continuous ventilation behind the render while delivering the clean contemporary appearance expected of modern healthcare facilities.

THE CHALLENGE

- Hospital buildings present unique demands on external façade systems.
- Large elevations are exposed to continual weathering while remaining highly visible to patients, visitors and staff.
- The façade needed to accommodate structural movement, maintain long-term weather resistance and provide a durable, low-maintenance finish capable of performing for many years.
- The support structure also required careful consideration of movement joints, cavity ventilation and fire compartmentation throughout the rendered rainscreen system.



INTERESTED IN SPECIFYING THIS SYSTEM?

U-Value Calculations

Specification writing

CAD Details

Technical Support

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THE SOLUTION

The ProWall Rendered Rainscreen System was installed onto an aluminium Helping Hand framework using horizontally fixed ProBoard cement render boards in a block-bond arrangement.

A reinforced 5mm ProRend Lite basecoat incorporating ProMesh Grade 3 Glass Fibre Mesh created a robust impact-resistant surface before application of ProRend Colourtex Uniform silicone render.

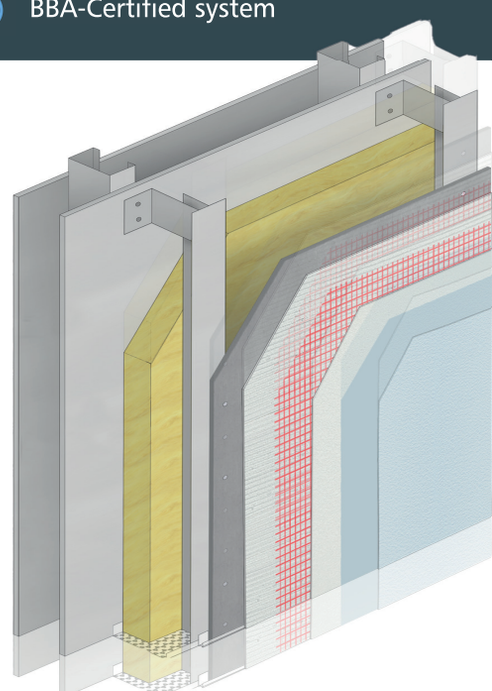
The specification incorporated:

- Fully ventilated cavity construction.
- Horizontal slip joints at floor levels.
- Expansion joints aligned with the supporting structure.
- Continuous cavity ventilation.
- Intumescent cavity barriers where required.
- High-performance silicone decorative finish.

Together these elements provide a façade capable of accommodating normal building movement whilst maintaining long-term weather protection and a consistent architectural appearance.

KEY BENEFITS

- Fully ventilated rainscreen façade
- Accommodates structural movement
- Excellent long-term weather resistance
- Silicone finish with excellent colour
- Breathable construction
- Low maintenance
- BBA-Certified system



Property	Specification
Solution	ProWall Rendered Rainscreen
Carrier Board	ProBoard Advanced Render Carrier Board
Support Structure	Aluminium Helping Hand Framework
Finish	ProRend Lite, ProRend Colourtex Uniform
Key Performance	A2-s1,d0 Fire Performance, Long-Term Durability, Excellent Colour Retention, Self-Cleaning, BBA
Suitable For	Steel Frame

Royal Preston Hospital demonstrates how the ProWall Rendered Rainscreen System can deliver a robust façade solution for demanding healthcare environments. By combining a ventilated aluminium support system with reinforced render technology and a premium silicone finish, the completed façade provides long-term durability, weather protection and a clean contemporary appearance while incorporating the movement, ventilation and fire detailing required for modern framed construction.