

Case Study

**Stylite External Wall Insulation -
EPS100, New Build Education**

Project: Viewforth High School - Windmill Community Campus

Location: Kirkcaldy, Fife, Scotland

Sector: New Build Education

System: Stylite External Wall Insulation

Size: 2,000m²

Client: Fife Council

**The Stylite EWI offered the following key
benefits to our client:**

- ✓ Excellent thermal performance
- ✓ High compression and tensile strength
- ✓ Minimal water absorption
- ✓ Rapid adhesive fixing
- ✓ Lightweight and cost effective

Problems

Viewforth High School in Kirkcaldy was built in 1908 and due to its age was deemed to no longer meet the needs of the local community. The building was costly to maintain, had high fuel bills, and was not considered suitable as a modern teaching facility.

Client Requirement

As part of their Building Fife's Future programme, Fife Council wanted to replace Viewforth High School with a new facility. They wanted one campus to house multiple services including a high school, primary school, library, customer service office and a new centre for community use.

Fife Council's proposal was to create a new campus known as Windmill Community Campus. It would feature buildings with high quality design, high functionality, be fit for a modern curriculum and promote a culture of lifelong learning within communities. The new Viewforth High School was to offer 600 pupils and parents a very different experience than the old building, including state of the art teaching spaces and technology along with a new sports centre.

Download Stylite
External Wall Insulation
Technical Datasheet





“We were delighted to have our Stylite EWI boards specified on this high profile project. We worked closely with the EWI system designer to select the best product for the job and to provide all the technical advice that was needed. When it came to deliveries our transport department liaised with the EWI installer to ensure a constant supply of boards.”

SPI National Sales Manager, Brian Monaghan.



Design Solution

The main contractor, working on behalf of Fife Council, specified a lightweight steel framing system for the new high school building. After erecting the main frame a carrier / sheathing board was fitted to clad the structure.

Stylite External Wall Insulation boards, comprising of lightweight Expanded Polystyrene (EPS) boards measuring (L)1200 x (W)600 x (T)200, were then installed directly to the carrier board using an adhesive fix. Two layers of base coat render and a final decorative top coat were then applied to the insulation boards to provide a protective and weatherproof finish to the school.

Result

The external wall insulation system, in conjunction with the steel frame and carrier board, achieved a super low U-value of 0.14W/m²K. This level of thermal performance resulted in reduced energy usage and low energy bills for the school whilst also future proofing it for its whole life cycle.

The final contemporary topcoat provided the system with a watertight finish and excellent weather resistance and an attractive façade that fully met the councils aesthetic expectations.



U-Value
0.14 W/m²K

Download Stylite
External Wall Insulation
Technical Datasheet

