

# Case Study

## EPS ONTO MIXED MASONRY



## SUMMARY

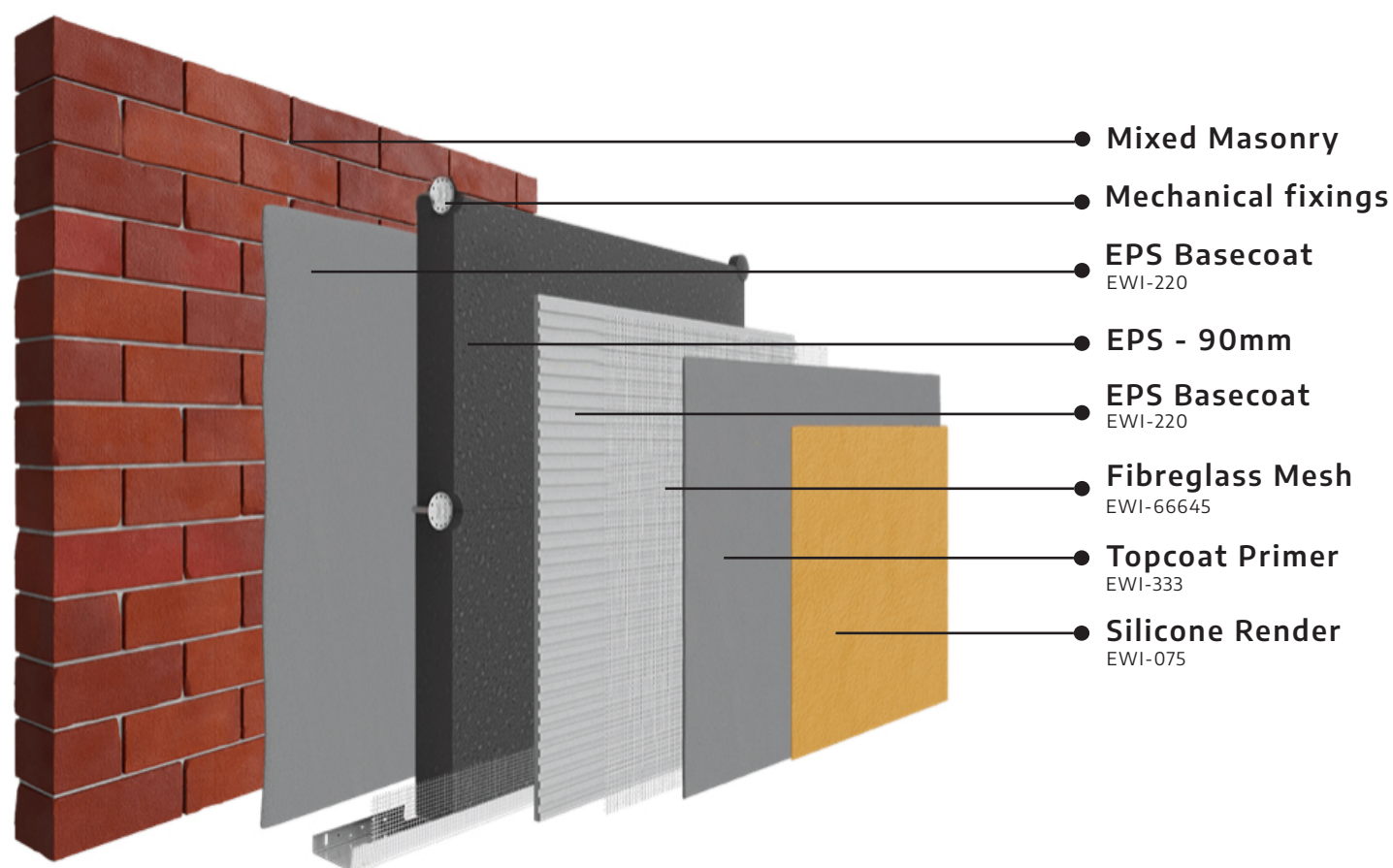
- Substrate: Mixed Masonry
- U-Value change: 2.4 W/m<sup>2</sup>K - 0.3 W/m<sup>2</sup>K
- Top coat: EWI-075 Silicone Render - 1.5mm
- Basecoat: EWI-220 EPS Basecoat
- Colour: Antique White - 28076
- Location: North Wales
- Installer: Independent Energy Savers Ltd



## WHAT IS MIXED MASONRY?

A mixed masonry substrate is a solid wall made of either brick, block or stone. Typically, mixed masonry walls do not retain heat well, so external wall insulation is recommended to improve the thermal comfort of the building.

Prior to 1930, almost all buildings in the UK were built with a mixed masonry substrate. Though aesthetically pleasing, one-layer substrates can cause many issues. For instance, water can easily transfer from one side to the other, creating damp problems. Likewise, heat can escape through its gaps quite readily, leading to profound energy waste.



For this project, EPS insulation boards were used given their advanced thermal insulation properties, improving the substrate's U-Values. Coupled with a Silicone render, EPS also reduces the risk of water penetration and condensation. All the insulation boards in our external wall insulation systems are held in place by both an adhesive and mechanical fixings, so you can be sure that the system will remain for years to come.

The Silicone render used on this project is hydrophobic, flexible and breathable. The beauty of thin-coat render systems is that, unlike monocauche renders or sand and cement, they are far less liable to crack as the Insulation / Basecoat + Mesh / Render flexes with the movement of the building. Further, EWI-225 Premium Basecoat and EWI-075 Silicone render were used in conjunction given their excellent compatibility; together, they work to create a highly flexible system with extremely long-lasting qualities.



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