

# Case Study

## RENDER ONTO ICF



## SUMMARY

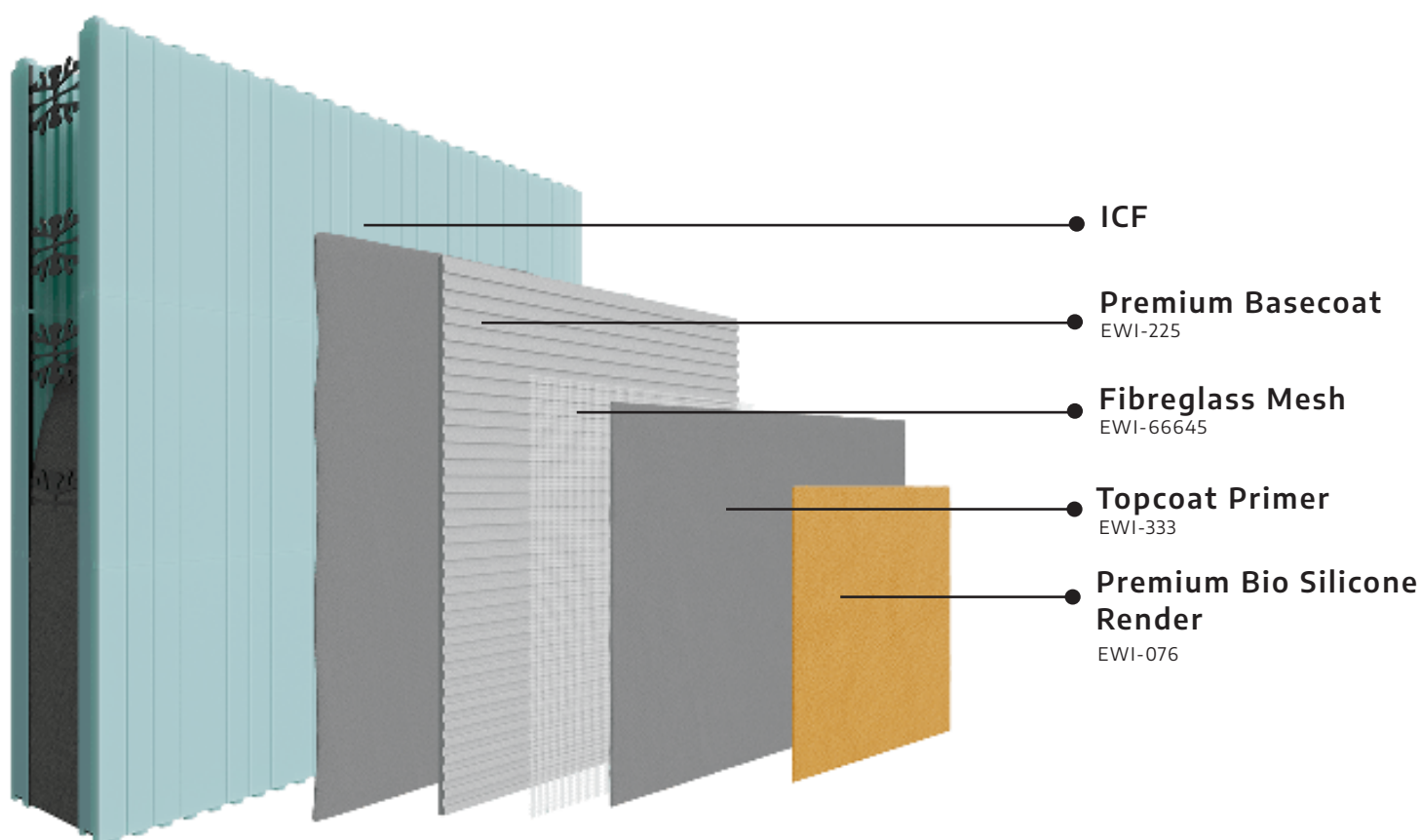
- Substrate: Insulated Concrete Form (ICF)
- U-Values: Render only
- Top coat: EWI-076 Premium Bio Silicone - 1.5mm
- Basecoat: EWI-225 Premium Basecoat
- Colour: Pure White - 20001
- Location: Greater London
- Installer: Private contractor



## WHAT IS ICF?

Insulated concrete form (ICF) is a system of formwork for reinforced concrete. Usually, it is made with a rigid thermal insulation that stays in place as an interior and exterior substrate for walls, floors and roofs. ICFs result in cast-in-place concrete walls that are sandwiched between two layers of insulation material, making them strong and energy efficient.

ICF systems are a great alternative to more traditional systems because they can offer superior acoustic insulation and structural integrity. What's more, these systems are fast and affordable and vary in design; *flat*, *grid* and *post and beam*. For example, flat systems have a continuous thickness of concrete; grid systems have a waffle-like pattern where the concrete is thicker at some points than others; and post and beam systems have columns of concrete that are completely encapsulated in foam insulation.



For this job, EWI-076 Premium Bio Silicone Render was used given its advanced resistance to algae and plant growth technology, which is ideal for use in highly vegetated areas like this one. This render is also hydrophobic, flexible and breathable and therefore an ideal choice for an ICF building as it offers more flexibility than alternative renders.

In conjunction with the EWI-076 Premium Bio Silicone Render, the EWI-225 Premium Basecoat was used given their excellent compatible properties. When used together, they work to create a highly efficient, breathable and flexible system that will last for years to come.



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