



The Challenge

Disaster proof housing

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Needs to be...

- > Made from Recycled Materials
- > Mass Produced to meet demand
- > Easy to Assemble in Days Not Weeks

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An Engineered Solution

The Solution?

Thermal Demonstration

The Solution

A ground breaking panel
system made from
recycled glass

Equivalent U-Value performance

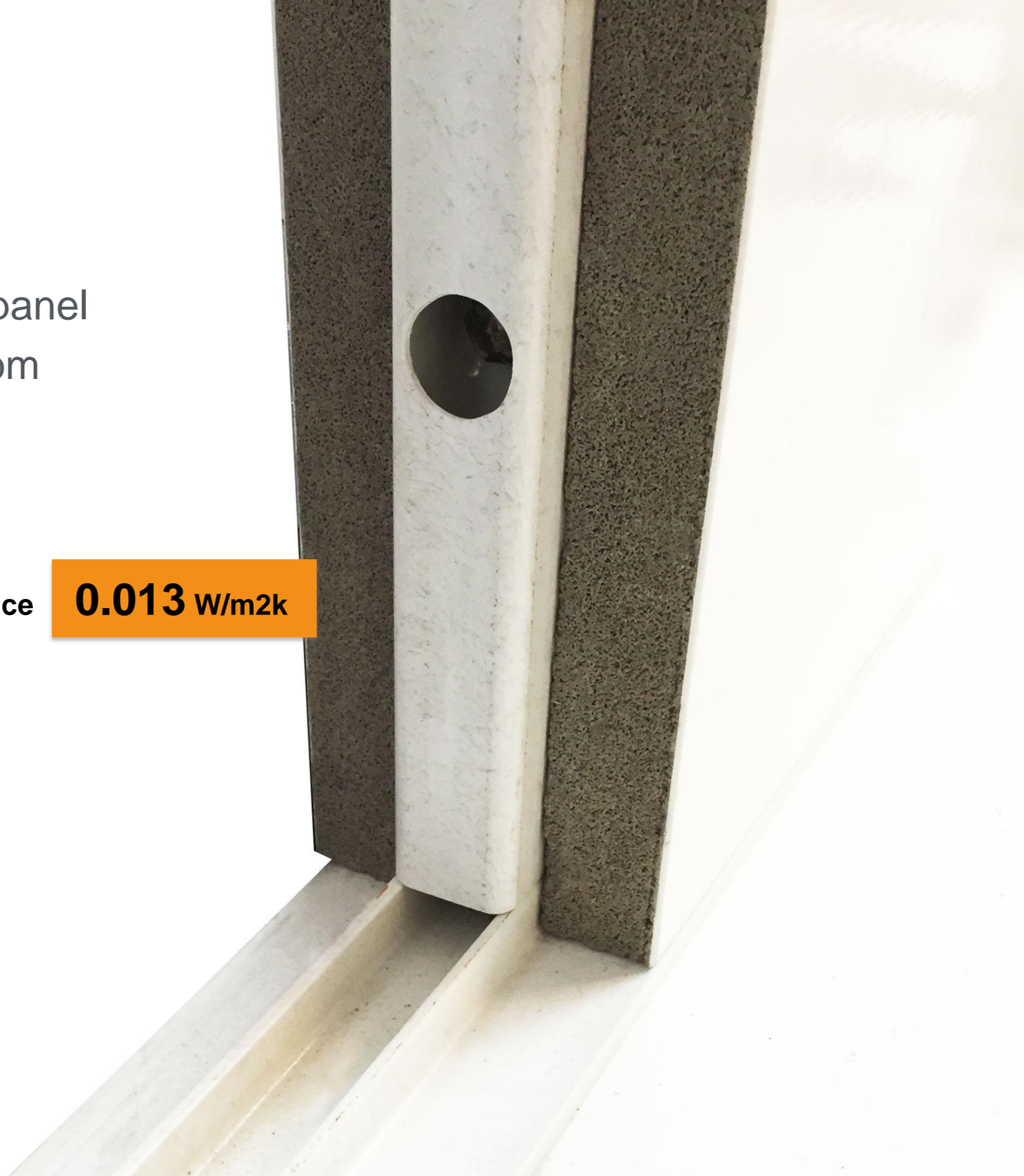
0.013 w/m²k

Passive Standard

Flood Proof

Hurricane Proof


Fire Proof



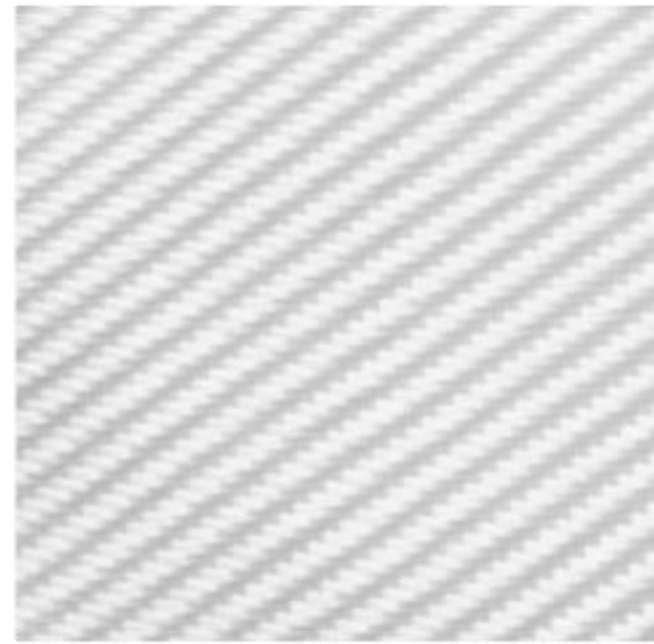
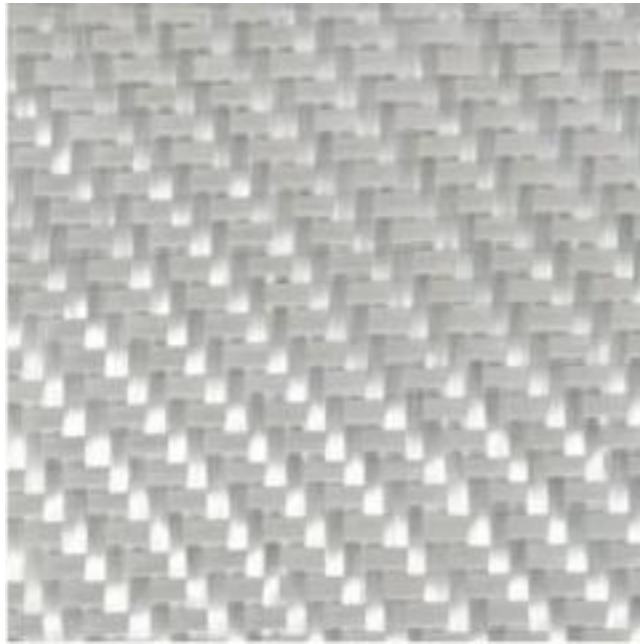


Turning the glass waste stream
into a silica flour





Then creating aerated glass beads
that are then bound together with
natural resins

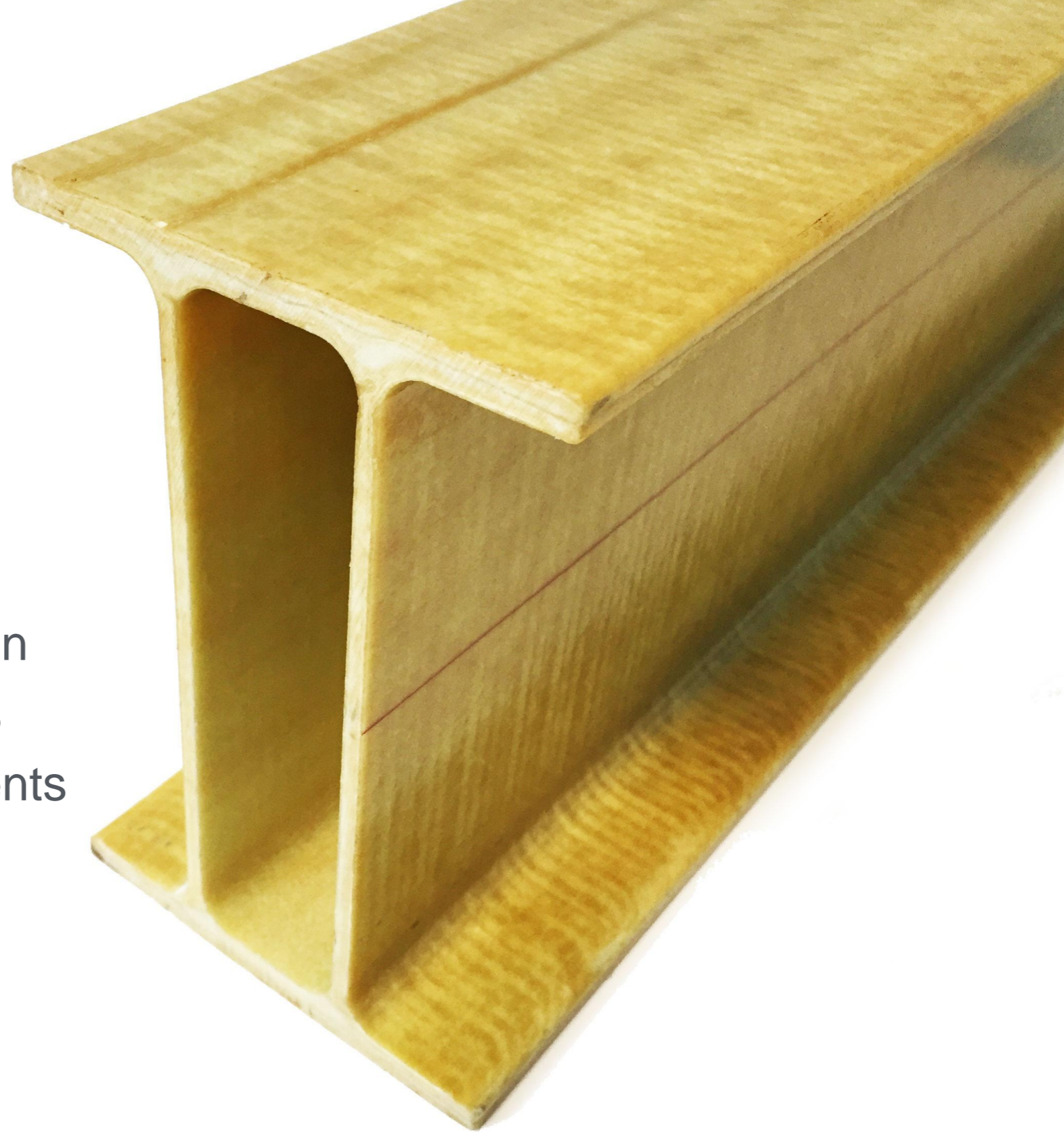


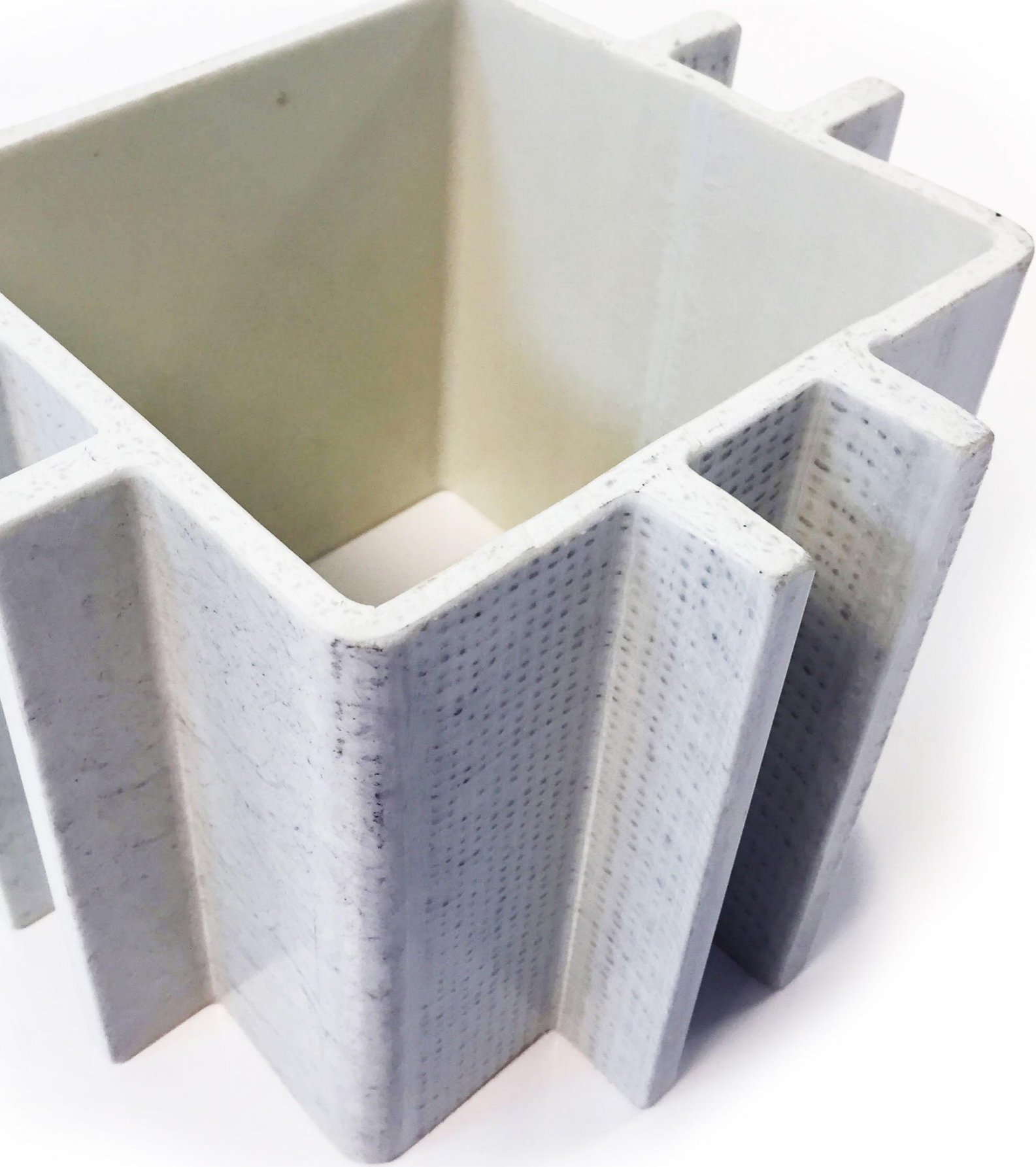
Then sandwiched in glass composite sheeting
to make the panel



Developments underway to enhance flat sheet production to achieve final external finishes (avoiding need for secondary cladding)

Plus
A series of precision
engineered, glass
composite components





Each designed
for a specific task

That outperform their
traditional counterparts
by up to a factor of x10







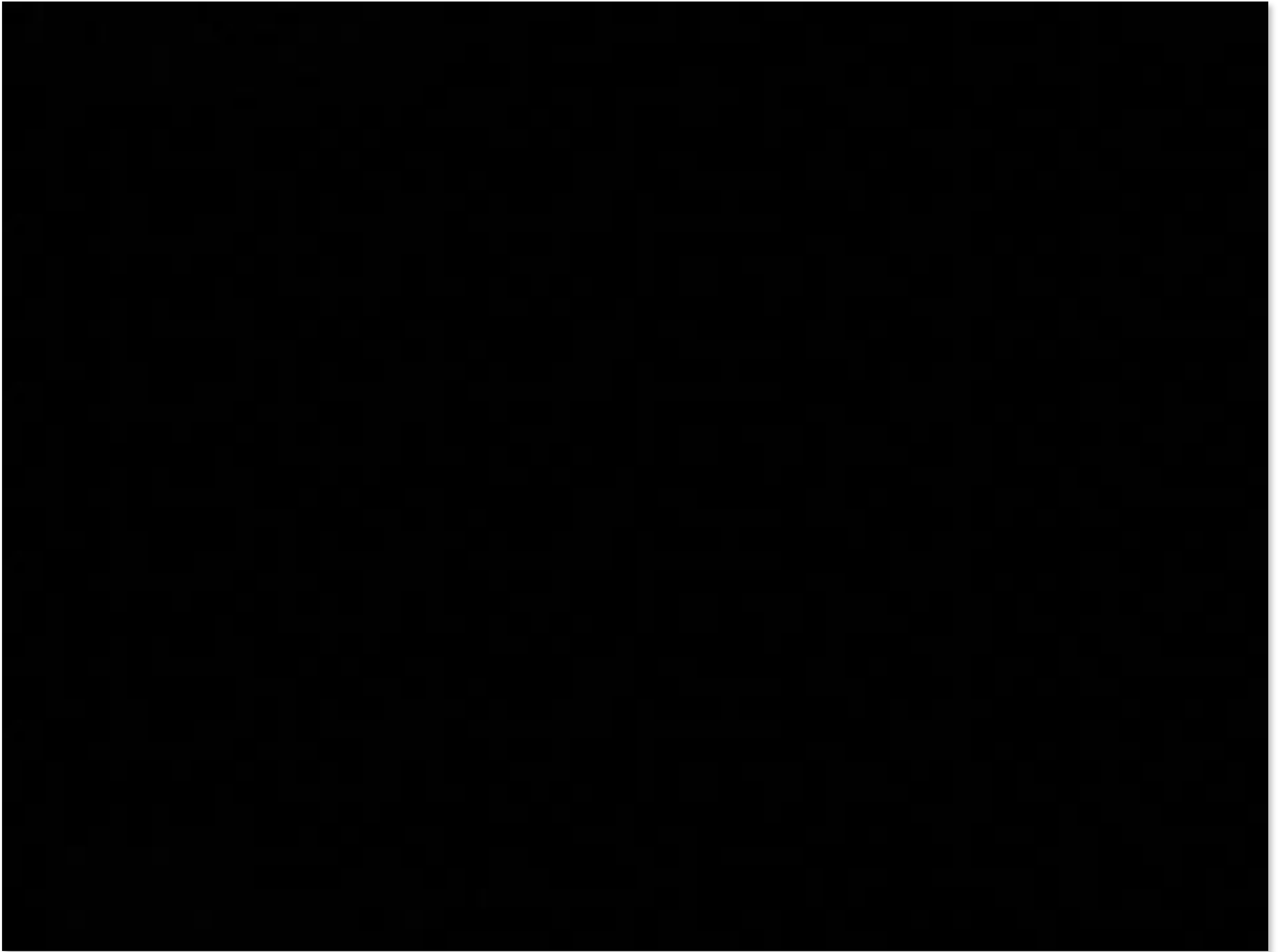


Producing everything in-house including the beams















What has been built in the UK?

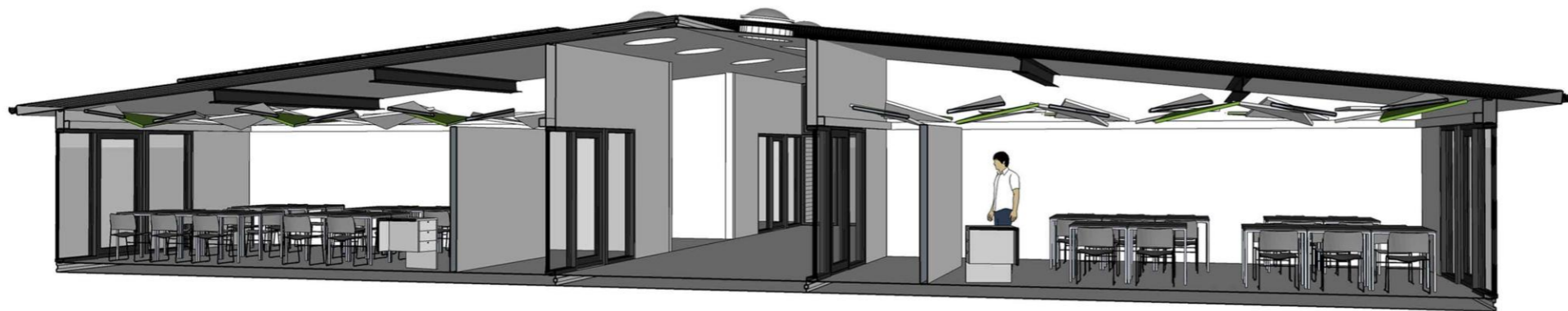


What has been built in the UK?



4 Classrooms + Atrium

- Tufeco Panels
- BIPV Glass Roof
- Battery Storage



Tufeco Construction



Tufeco[™]
Raising Green Build Standards



Tufeco Construction

2 Days

to Lay the
Pad Panels

Tufeco[™]
Raising Green Build Standards

Tufeco Construction



Tufeco[™]
Raising Green Build Standards

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4 Days to Raise the Wall Panels



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2 Days to Install the
Roof Panels



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Tufeco Construction





Application

Education

Reepham High School



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