

Uniclass	G251:JB1:L6815		
CI/SfB	(21.9)	Jn7	(M2)

# APPLICATION DETAILS

## NON-TRADITIONAL HOUSING REFURBISHMENT



The Structherm Structural Cladding System is used across the whole spectrum of non-traditional system-built housing, providing the benefits of fully integrated solutions for insulated, finely finished, continuous structures. The details on this data sheet illustrate just a few of the possibilities available to a designer whether using using clear span, primary/secondary or diaphragm fixing methods.



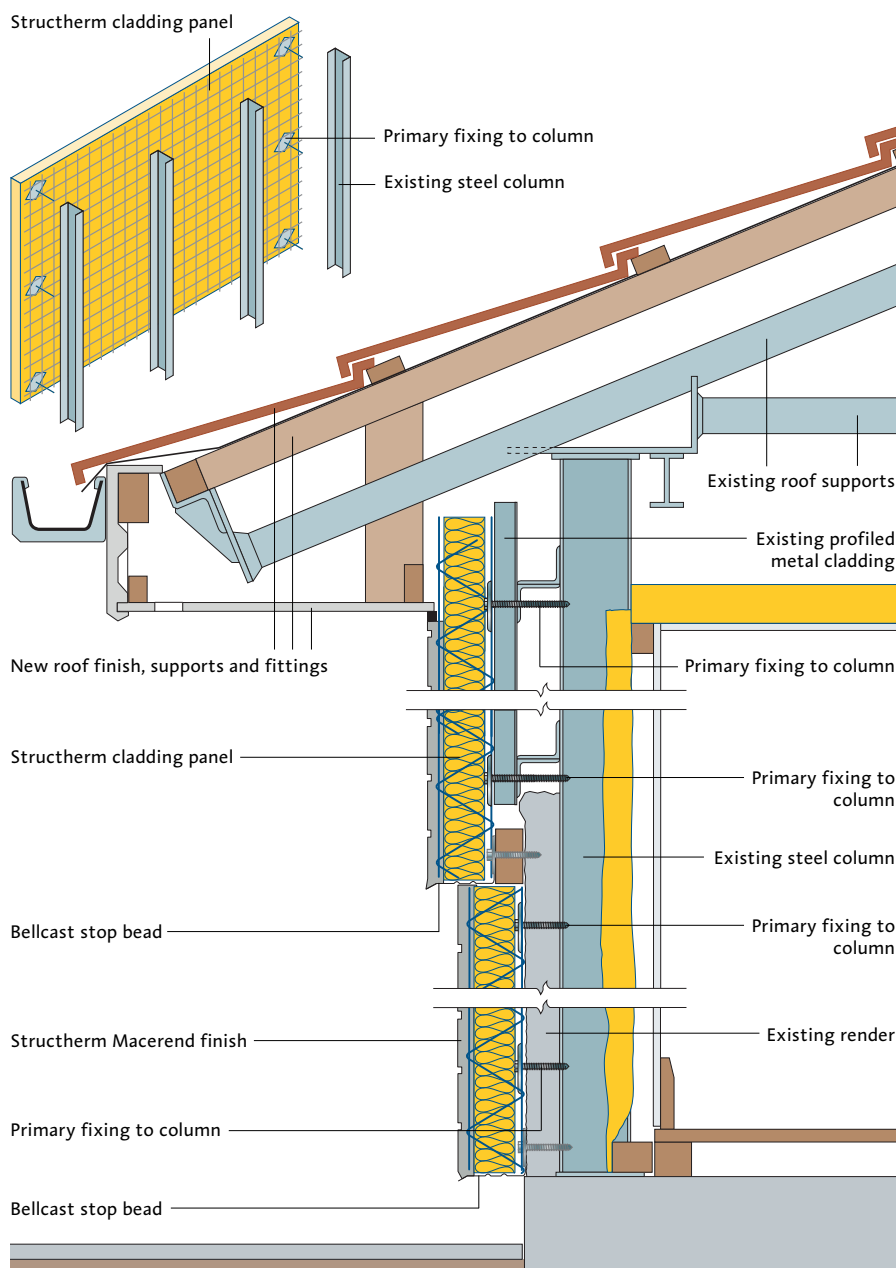
### Fixing methods for non-traditional, system-built housing

There are 3 fixing methods, based on the primary fixing technique described in Data Sheet 1: Overview of the panel, under 'Method of fixing the panels direct to a building structure'. They are used for the refurbishment of the 3 generic types of non-traditional, system-built housing erected in the UK, which are:

1. **Framed structures**  
(Use clear span fixing method)
2. **Composite structures**  
(Use primary/secondary fixing method)
3. **Column/rc cavity wall structures**  
(Use diaphragm fixing method)

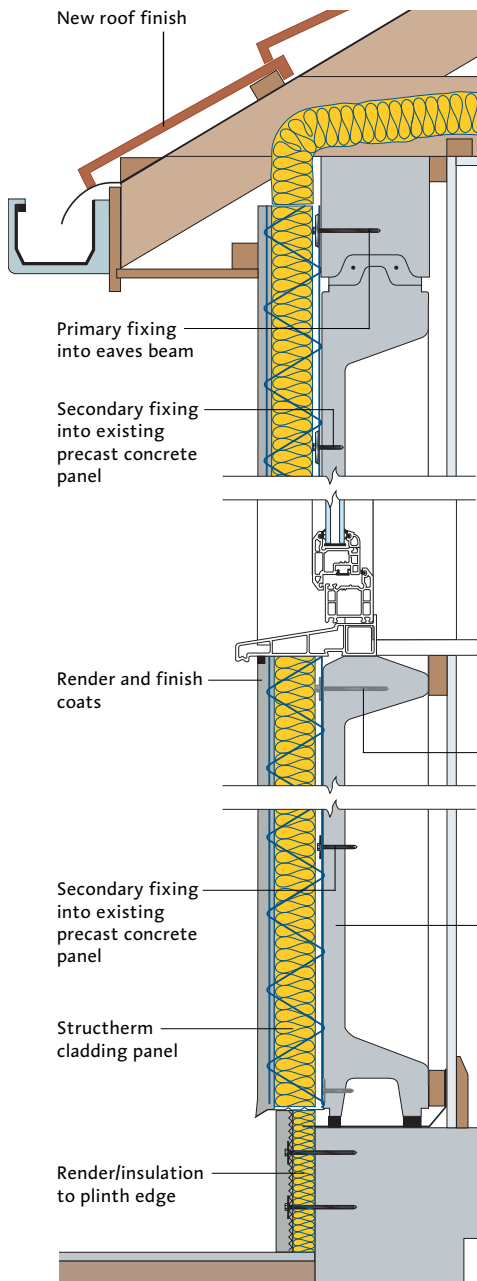
### Clear span fixing method for a framed structure

The system-building type used with this method is a loadbearing framed structure of concrete, steel or timber with non-loadbearing cladding panels, such as Unity, Airey, BISO, Sweda, etc. The Structural Cladding Panels span vertically or horizontally between the beam or columns. The primary fixings are fixed directly into the loadbearing frame.



Typical detail of clear span fixing method

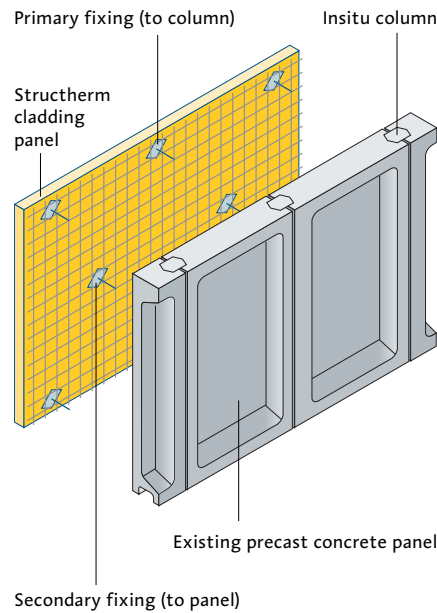




Typical detail of primary/secondary fixing method

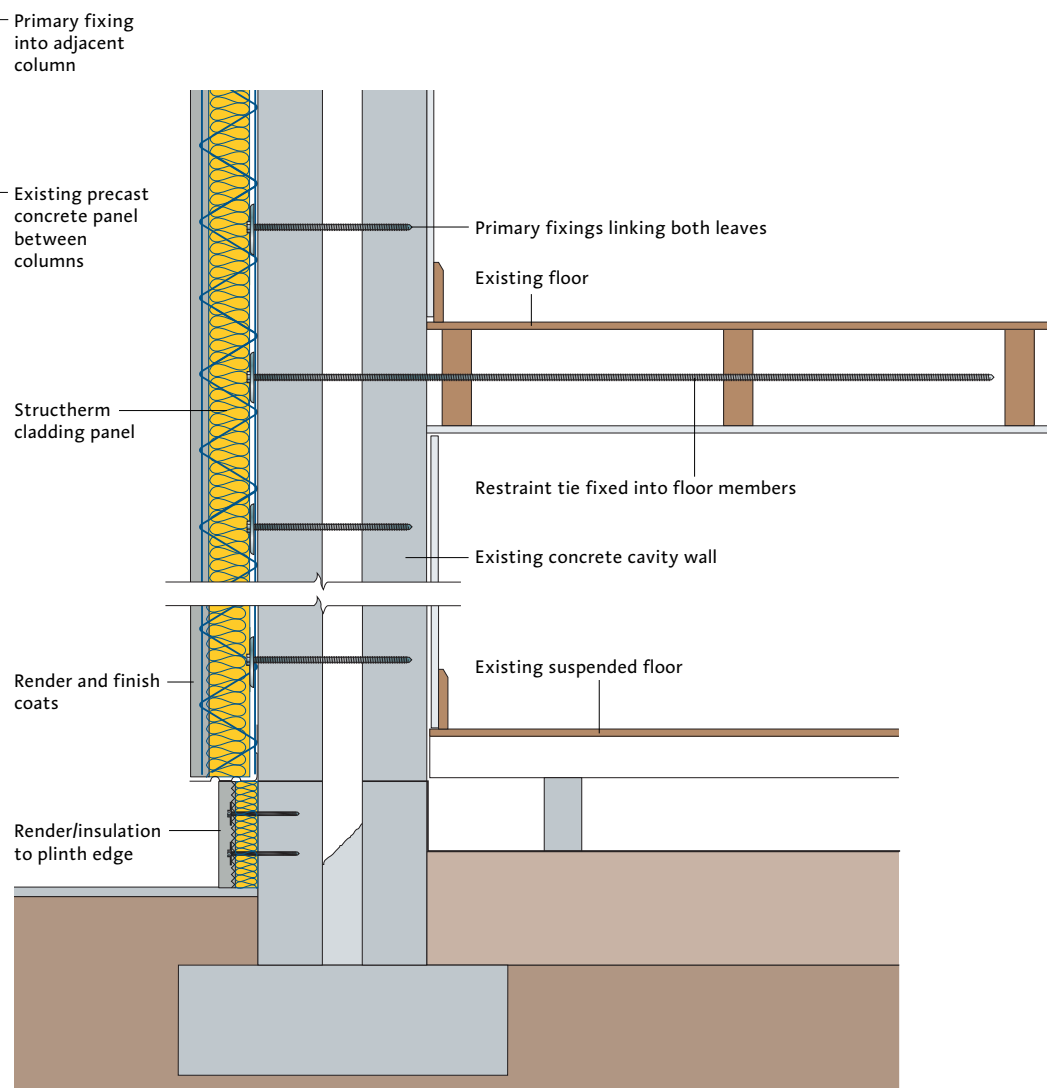
## Diaphragm fixing method for a cavity wall structure

The system-building type used with this method is a combination of column and concrete cavity wall with shared loadbearing capacity, such as Easiform, Boswell, Boot and Pier houses etc. The Structural Cladding Panels span vertically and horizontally across the structure. Primary fixings are taken through the outer leaf and located directly into the inner leaf, linking both leaves and creating a diaphragm wall structure.



## Primary/secondary fixing method for a composite structure

The system-building type used with this method is a composite precast concrete structure where loadbearing is shared between the frame and cladding panels, such as Wates, Reema, Orlit, etc. The Structural Cladding Panels span vertically or horizontally between beams and columns. The primary fixings are located directly into the loadbearing frame, and the secondary fixings located directly into the loadbearing cladding panels.



Typical detail of diaphragm fixing method