# CHECKENDON - OXFORDSHIRE

## Internal open space to maximise the first floor ceiling height and create an attractive look for this modern dwelling

Project: Checkendon, Oxfordshire

Company: Timber Innovations

Sector: Self Build

Technology: SIPS

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Overview:
Timber Innovations were appointed to provide the complete timber frame package for a self build project in Checkendon, Oxfordshire.

Materials used for this build included SIPs wall and roof panels, cladding and a glulam ridged beam that was left exposed. The basement was onsite prior to the arrival of the timber frame. Once the frame arrived it was erected on top of the existing basement with the installation of an MVHR system – in order to provide air tightness and eventually achieving U values of 0.18 W/m2K.

Project Type/Application:
Located in Oxfordshire this project was particularly unique as the client required a swift build process that had the correct specifications to be erected on top of the basement that was already in situ. It was very important this construction was quick to create an air/water tight shell over the existing level. What's more the materials needed to be light enough for the basement to appropriately support the building.

The client chose to use SIPs panels from Timber Innovations as we could not only meet the erection time requirements but the lightweight construction limited the need for extra reinforcements on the pre laid foundations – meaning significant cost savings!

Outcome/Results/Success Factor:
The pre-fabricated system allowed the frame to be designed accurately and it incorporated the basement design prior to arrival on site. The precise engineering allowed the designers to iron out any discrepancies that could occur on site. Again limiting any problems and reducing time on site. Additional features included the integration of an MVHR system. Due to the use of SIPs this promoted great insulation properties and inherently good airtightness values. The MVHR system would work even more effectively with a SIPs construction.

For the final 'WOW' factor we created a fully vaulted internal open space to maximise the first floor ceiling height and create an attractive look for this modern dwelling.