UKBIM ALLIANCE KENT

CASE STUDY

Tunbridge Wells Grammar School for Boys - New Teaching Block

Baxall Construction, Bond Bryan Architects, Banyards Consultants, Innovare Systems

Collaboration | 3D Modelling | Implementation

What did you do?

Baxall Construction secured the D&B project at RIBA Stage 3+. The project had tight deadlines which lead to the adoption of a MMC off-site superstructure solution by Innovare Systems.
The design was completed using 3d models from Archicad and Revit which were shared using IFC format throughout RIBA Stage 4.
The collaborative approach in model sharing enabled a fully coordinated design output which supported the off site methodology delivering within the project timescales.

RIBA Stage 3 Visuals - by Bond Bryan Architects

How can others adopt this practice?

Collaboration across design teams and early selection of an MMC supplier.

Establish file sharing protocols (BIM Execution Plan). Practice export / importing simple geometric data rich files early to iron out any interoperability issues.

Check the quality of BIM file outputs are fit for their intented use.

What were the benefits / value?

- Efficient file sharing.
- Good quality information for MMC Off site.
- Cost and programme certainty.

RIBA Stage 6 Photo - ICT suite

The BIM modelling process goes hand-in-hand with MMC off-site methodology where fully coordination detailed information is required up front.

Minimal waste for on-site activities - no rework.

No mistakes or errors during construction stage - easy MEP installation.

Programme and cost certainty.

Defect free handover.

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