

Building Information Modeling (BIM) Policy:

Anthony Keith Architects Limited employs Collaborative Building Information Modeling (BIM) on all its projects.

Anthony Keith Architects Limited employs the latest version of Archicad by Graphisoft on all projects. This is BIM CAD software which allows a virtual building model to be created from which all of the building information can be extracted. All of the elements of the building are stored as 3D elements making it very easy to produce 3D visualisations of the project from an early stage. This assists in the design process itself and also helps Clients to understand the building and spaces proposed.



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AKAs Commitment to the Government Construction Strategy:

- The Government Construction Strategy was published by the Cabinet

office on 31 May 2011. The report announced the Governments intention to require: collaborative 3D BIM (with all project and asset information, documentation and data being electronic) on its projects by 2016.

- Essentially the UK Government has embarked with industry on a four year programme for sector modernisation with the key objective of: reducing capital cost and the carbon burden from the construction and operation of the built environment by 20%. Central to these ambitions is the adoption of information rich Building Information Modeling (BIM) technologies, process and collaborative behaviours that will unlock new more efficient ways of working at all stages of the project life-cycle.
- Anthony Keith Architects is committed to this strategy and has been using collaborative 3D BIM on all its projects for a number of years – well in advance of the governments back stop date currently of 2016.

AKAs use of Open BIM:

- Anthony Keith Architects through use of its software provider Graphisoft is committed to "Open BIM".
- Open BIM is a universal approach to the collaborative design, realization, and operation of buildings based on open standards and workflows.
- Open BIM is an initiative of several leading software vendors using the open "buildingSMART Data Model".



- Building projects themselves are products with their own market. With diminishing differences in building materials and technology, next to buildings' genuine design added labels such as "sustainability" can greatly increase the potential project value on the market. The Open BIM movement offers projects an additional label with very positive associations. Future owners, operators and tenants of such buildings will have better chances to further utilize the digital building model if it was created using the Open BIM approach in the first place.
- ArchiCAD offers the best BIM-based documentation workflow available on the market today. It simplifies the modeling and documentation of buildings even when the model contains a high level of detail.
- ArchiCAD's end-to-end BIM workflow allows the model to stay live until the very end of the project.

All-Round 3D Workflows – BIMx:

- ArchiCAD includes a fully functional BIMx that also enables Anthony Keith Architects to share BIM projects with their clients in an interactive environment.
- 3D models created with GRAPHISOFT BIMx can be shared with anyone who has either a mobile or desktop version of BIMx viewer. The BIMx Desktop Viewer is a native Mac/Win application that allows you to view the BIM Explorer models (saved in bmx file format) on desktop computers and notebooks.

The new updated version is available at:



IFC Support for National Standards:

- ArchiCAD supports the major international IFC standards (IFC 2x3 Model View Definitions) required by buildingSMART and other organizations: IFC 2x3 Coordination View (1.0 and 2.0), Coordination View (Surface Geometry), Basic FM Handover View (required for COBie documentation), and Concept Design BIM 2010 (required by GSA in US, Statsbygg in Norway, and Senate Properties in Finland). Support for these standards improves a wide range of interoperability workflows with consultants and other disciplines.
- Thanks to the standard requirements, new IFC data types are implemented in ArchiCAD: IFC System, IFC Time Series Schedule assignment, assignments with multilevel ('sub') hierarchy, special base quantities, editable IFC Type Product entities, Lining and Panel IFC properties of Windows and Doors, Space Containment relation between Zones and Morph elements, element assignment to IFC Site or IFCBuilding (Site context elements), currency and time unit export, and 'calendar date'-type IFC properties. Of course, the new data and feature implementations come with a new, user-friendly interface. In Publisher, IFC models with various content can be exported with just one click to the different professions (for example, the load-bearing structure to the structural engineer, the entire model to the MEP engineer).

This Policy is communicated to all employees, suppliers and sub-contractors and is made available to the public.

Daniel Cogdon:
Director

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