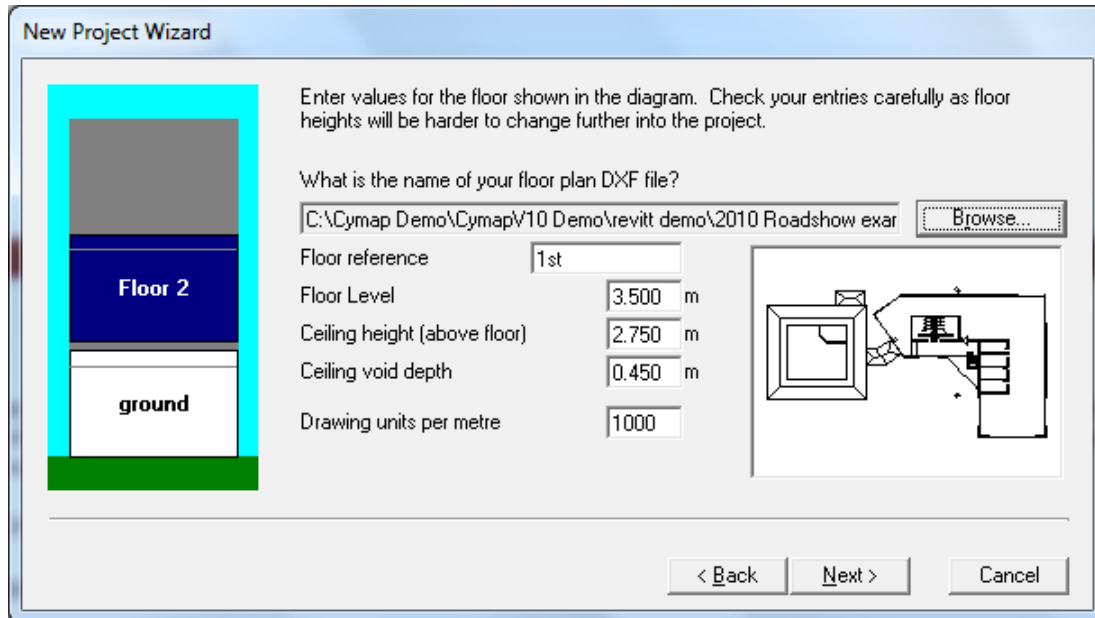


## Building

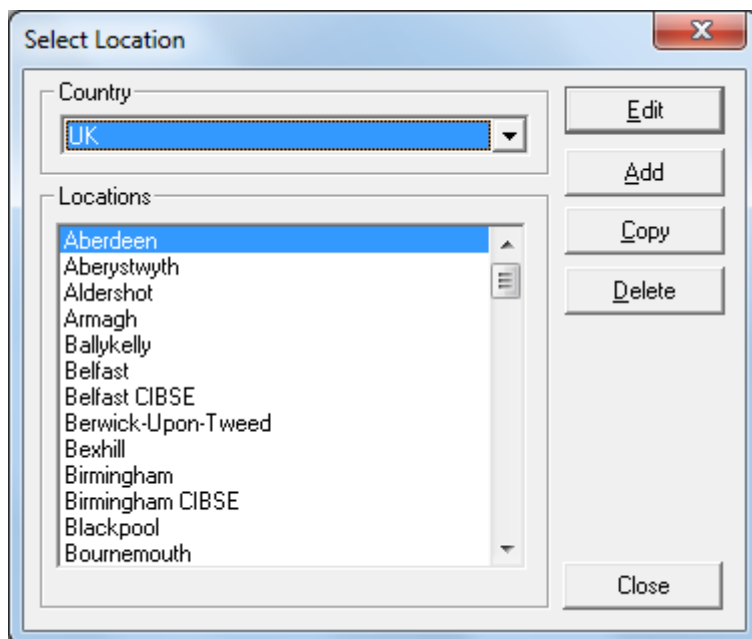
The Cymap building program is the gateway program to enable a building model to be created by defining room boundaries or loading GBXML geometric or DXF floor plans from any CAD package.

The DXF floor plans are loaded via an intuitive “wizard” to enable quick setting up of the building model.

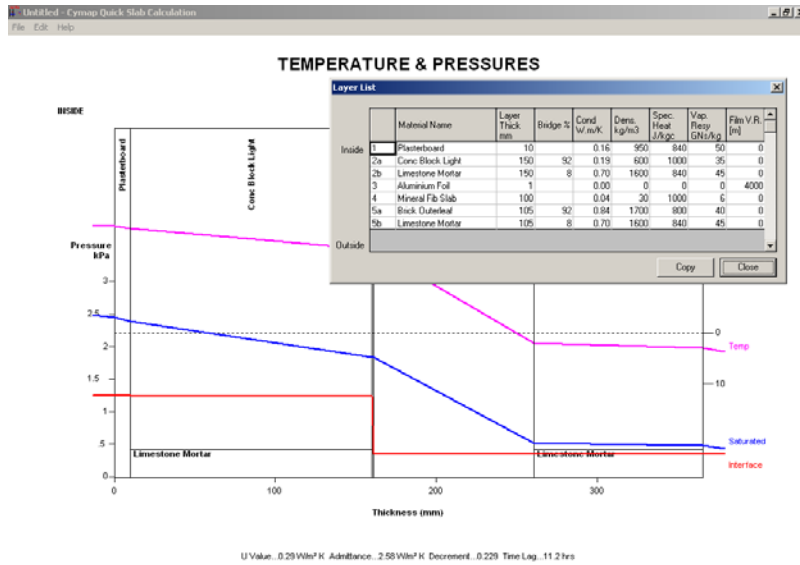


Set up wizard

Once the building model has been set-up, the orientation and the weather details can be used from an extensive range of customisable sites.

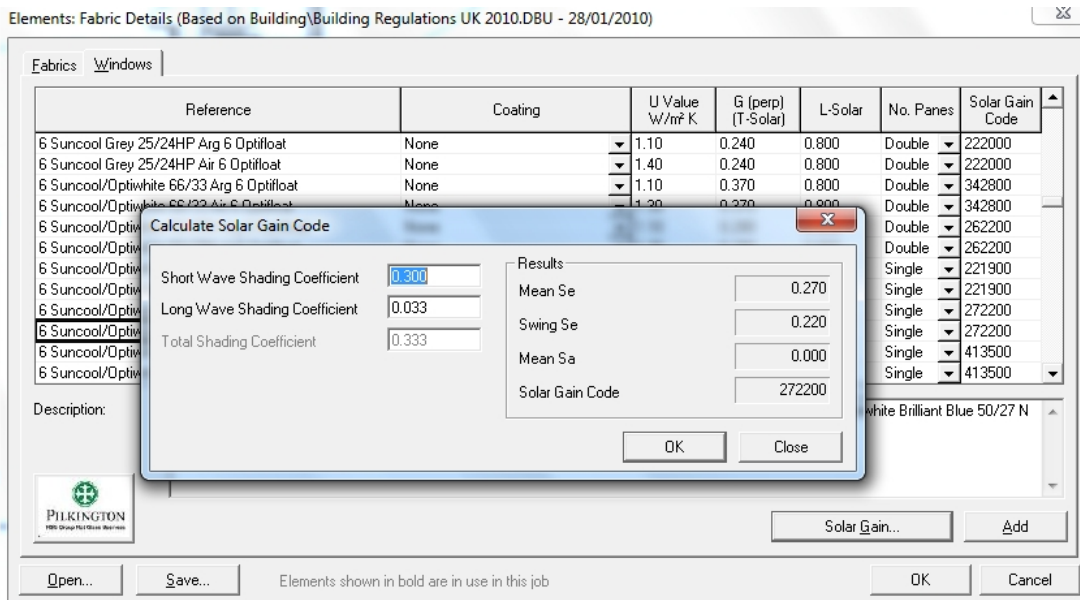


U value performance calculations can be undertaken from user driven composite fabrics, or merely used from a comprehensive database of existing composite structures typically used in today's buildings.



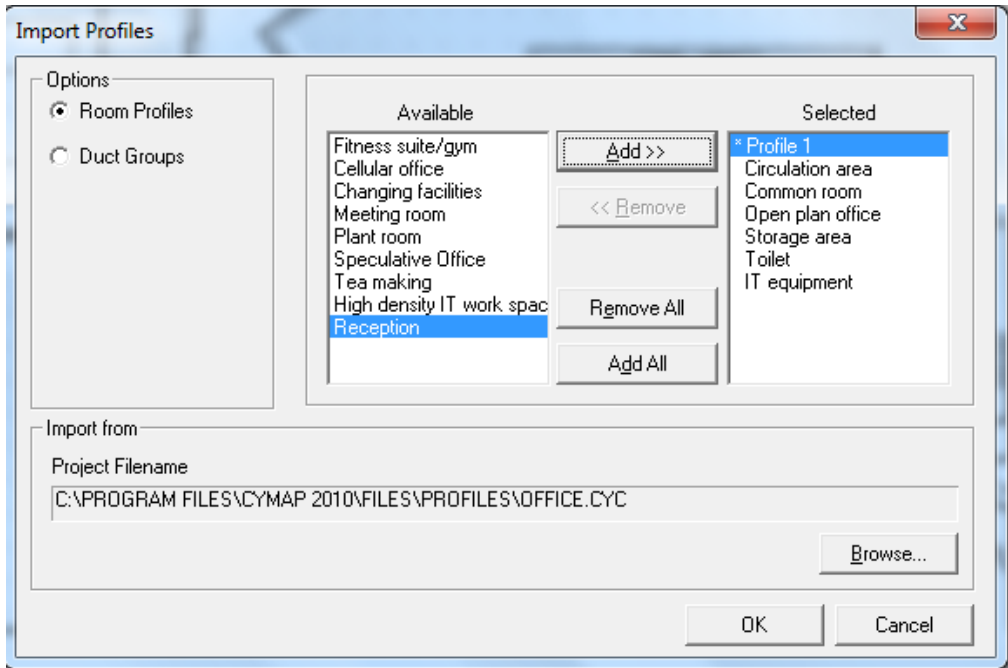
U value calculator

Also provided is a comprehensive database of glazing configurations from CIBSE tables and leading manufacturers. A simple converter allows entry of LW and SW shading coefficients, and/or base G values and Total shading coefficients. A link has been also set up to Pilkington's on line "Spectrum" glazing configurator.



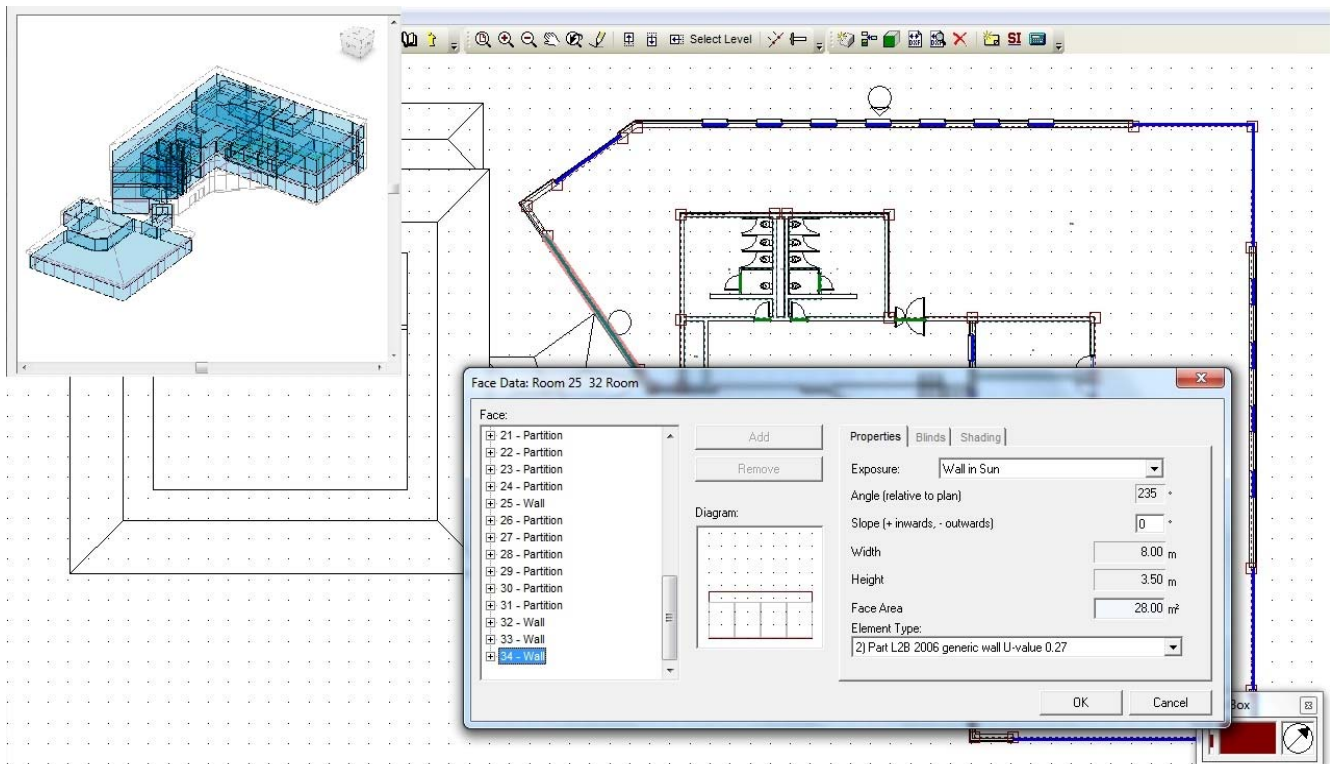
Glazing database

A comprehensive selection of building "profiles" can be entered to save the engineer time setting up complex design parameters. These can also be saved and customised for use in future projects.



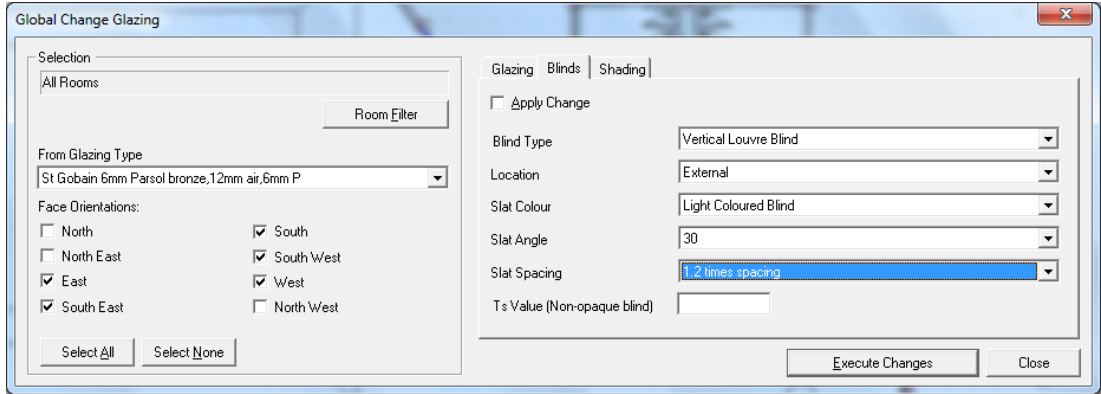
SBEM/CIBSE profile import

Once the structure of the building is determined along with the construction details and orientation, rooms can then be defined either by hand or uploading **GBXML** data from **any** of the leading 3D CAD systems even if you are not using 3D layouts. Rooms can also be defined by hand if no 3D information is forthcoming. Changes to the building can easily be achieved by re-introducing the GBxml data, based on rooms existing and rooms to be revised. A new dxf plan can be used to replace the existing plan automatically.



GBxmlimport/facedata

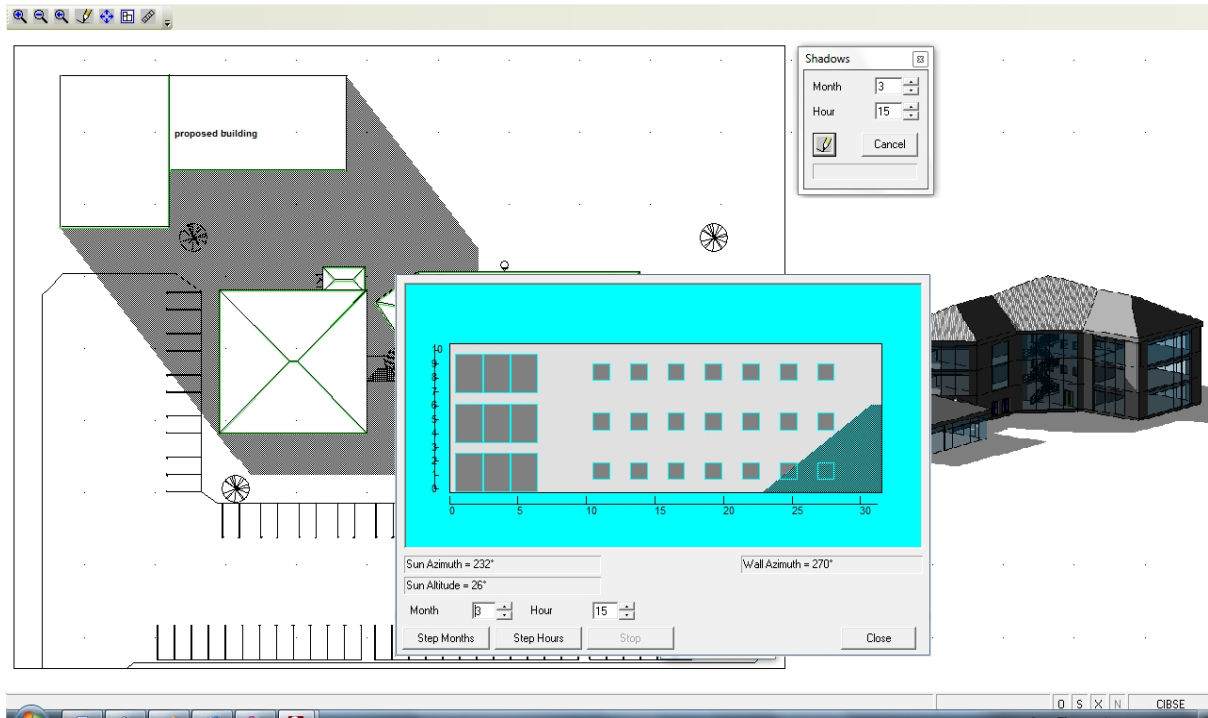
The building glazing configuration can also be considered by the implementation of Brize Soliel or any other shading device where the facade of the building can be engineered very quickly. An examination of shading devices can be undertaken with changes to glazing "G" value amended with respect to orientation and shading device in accordance with TM37 glazing principles.



Glazing editor

As the building design matures, materials and glazing can be globally, zonally or individually edited to reduce time spent making changes.

Site shading and building orientation as well as façade shadow analysis can be undertaken to give a comprehensive breakdown of the simultaneous building loads.



Orientation can easily be edited along with an inspection of the shadow cast on each separate façade.