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ARCHICAD 22

ARCHICAD 22 is focused on improving the architectural design and documentation workflow for building façades. In addition, it introduces significant improvements to its construction modeling, information management and 2D performance.

University Library Freiburg Germany
DEGELO ARCHITEKTEN www.degelo.net
Photo © Barbara Bühler

BIM INSIDE & OUT

Façade Design Remastered

ARCHICAD's remastered Façade Design workflow provides a flexible design environment for architects to create external or internal façades and elevations using modular structures and hierarchical, easily customizable patterns while ensuring adherence to local requirements for documenting and listing.

All documentation standards are fulfilled thanks to the customizable, scale-sensitive representation at any level of detail. Element schedules provide very accurate lists of all details of the created frames, mullions, or even accessories. Algorithmic design workflows are also supported, thanks to the improved ARCHICAD-Grasshopper Connection tool. Designers can use any set of 2D lines to start assembling Curtain Wall Patterns on the Grasshopper Canvas and manage all sub-elements, then create astonishing façades in ARCHICAD using algorithmic design definitions.

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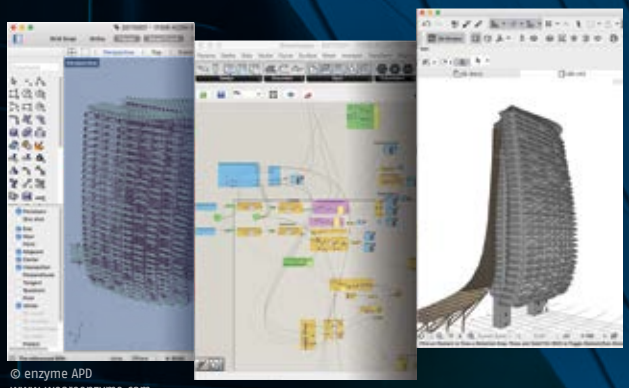
Algorithmic Design

The Rhino–Grasshopper–ARCHICAD Toolset connects the best available tools, on both Mac and Windows, filling the gap between conceptual design and Building Information Modeling.

The new "De-Constructor" function enables you to use a reversed data workflow and channel ARCHICAD element data to the Rhino-Grasshopper platform. As a result, architects can perform design optimization and validation using the vast set of Grasshopper and Rhino extensions.



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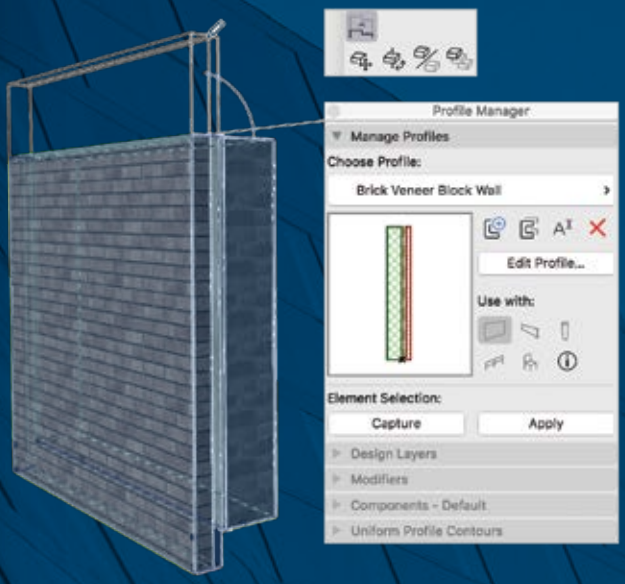
Expression Defined Property Values

ARCHICAD 22 allows you to use logical expressions to derive new properties and property values that depend on the element's own parameters. This new function greatly enriches the information – or "I" component – of BIM. Its automatic workflow lets you define any calculation rule as an element property value and update it automatically, without time-consuming and error-prone manual data entry.

The results can be used in ARCHICAD for tagging or filtering elements, and presented in any graphical, tabular or model output, governed by mathematical, logical and text handling operations – like the functions found in standard spreadsheet programs. Property values containing a valid URL will become a live URL hyperlink in the Interactive Schedule, providing quick access to any connected website or online data.

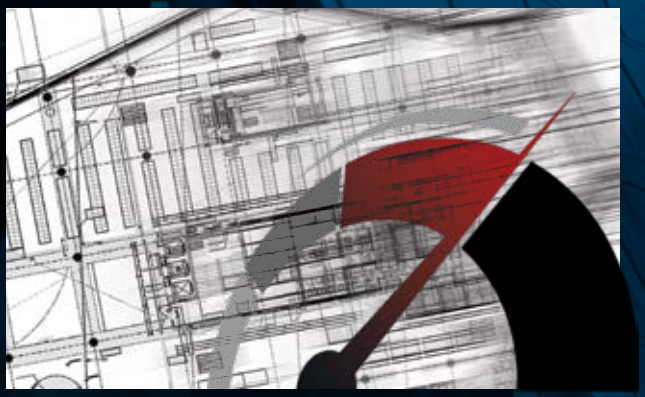
Parametric Profiles

ARCHICAD 22's Parametric Profile Editor combines the power of parametric design with the freedom of graphical profile creation. Create more intelligent Profiles for Walls, Beams and Columns, by defining parametric edges in the Profile Editor. This will allow the offset of individual or multiple edges centrally for the Profile Attribute or at the instance level – either graphically or via element settings.



Faster & smoother 2D navigation

ARCHICAD 22 introduces significant performance improvements, focusing on a smooth and truly responsive 2D panning and zooming navigation experience for projects of any size. Generation of complex element fills, cut- and cover surfaces are "GPU-accelerated." Multiple cores of the computer's CPU are further enhanced with a patent pending algorithm to utilize the changing needs of continuous – panning or zooming – navigation in the background. Ultra-high – 4K and 5K – resolution monitors offer much sharper display of details on Windows OS as well.



PRO Visualization

ARCHICAD 22 includes Maxon's latest (R19) CineRender engine, allowing architects to utilize professional visualization processes and features without leaving ARCHICAD. Now, stereoscopic, spherical renderings can be created by combining multiple cameras, to achieve 360° or dome-renderings.

Private residence in garden infill site, London, UK
Scenario Architecture – scenarioarchitecture.com
Rendering made with Maxon Cinerender by Fanis Anastasiadis

Industry-leading OPEN BIM workflow

ARCHICAD 22 supports the import of geometry representation of double-curved, complex geometry elements, the non-uniform rational basis splines (NURBS) from IFC4 files.

Properties and quantities of components (composite skins, complex profiles, multibody object parts) can be exported for quantity take-off and cost estimation applications.

During import processes, filtered or all IFC properties can be mapped to ARCHICAD Properties and so, the imported properties can be used as criteria for graphic override and collision detection or as use data for the new expressions, schedules and labelling. Also, the layers of IFC model elements can be mapped to existing ARCHICAD Layers, preventing the import of unwanted layers to the ARCHICAD project.

OPEN BIM™

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