Bridging the Gap in Masonry Modeling

Current architectural modeling tools like Revit are simply not up to the task of properly modeling, detailing and visualizing masonry. These shortcomings have resulted in too many structures forfeiting the extensive benefits of masonry construction, including resiliency, energy performance and unique aesthetics.

Now there’s a solution: the Masonry iQ plugin for Revit, available free of charge from your local Echelon Masonry team. This new and powerful tool revolutionizes architects’ ability to work with masonry earlier, model faster, and deliver more accurately designed, detailed and estimated projects.

**Simplify Modeling**

Masonry in Revit is just wallpaper – corners aren’t modeled, bond patterns can’t be modified and no structural calculations are included.

Masonry iQ can convert existing Revit models to masonry with a single click or allow you to start from scratch with powerful customization tools.

With Masonry iQ, bond patterns, corners and control joints are all calculated and rendered automatically.

**Enhance Visualization**

Masonry materials in Revit are limited and aren’t render-quality, introducing another layer of uncertainty into projects.

Masonry iQ allows you to use actual Echelon products inside of Revit to explore colors, create custom bond patterns, coursing and more.

High-resolution images of locally-available Echelon materials enables creation of photorealistic renderings that bring your projects to life.
Detailing masonry in Revit is a highly manual process – units, corners and materials aren’t accurately represented.

Masonry iQ automatically draws section, plan and elevation views and details from the Revit model, eliminating hours of manual work.

Masonry iQ makes the translation into construction models easier. We partner with the high-powered CAD modeling service Cad Blox to deliver highly detailed models to ensure your general contractor partners achieve superior cost estimating and installation accuracy.

With many design-build firms embracing the power of BIM, fully integrated CAD models that enhance clash detection and trade cooperation are the future of construction. Masonry iQ and Echelon Masonry are bringing that future to your team today!

Masonry iQ gets you to cost estimates faster to eliminate value engineering threats. Send your model for analysis with a click and get free, accurate cost estimates back within 24 hours.

Accurate unit modeling allows control joints to be dragged and dropped to minimize field cuts, enable modularity studies and improve aesthetics around penetrations.
Modern Masonry Solutions for BIM

CEU Credits: 1 or 2 LU | HSW

A new wave of BIM modeling tools seeks to bridge the gap between the challenges of designing and modeling masonry structures and the extensive benefits of masonry construction, including resiliency, energy performance and unique aesthetics.

This presentation provides a practical overview of BIM and its impact on the construction industry, with a particular focus on new software tools that are changing the way masonry is designed, specified, ordered, manufactured, shipped, installed and maintained.

After completing this course, attendees will be able to:

+ Describe how masonry codes, best practices and modeling software interact during the design process to ensure a high-performing masonry building.

+ Investigate a number of complex masonry wall assemblies that BIM modeling tools can help simplify.

+ Identify the structural, insulative and mechanical performance of masonry products.

+ Analyze how new masonry modeling tools have solved previous shortcomings, including how BIM technology can simplify the challenge and expand the possibilities of designing with masonry.

+ Apply techniques for modeling masonry walls to reduce cost and improve installation quality by reducing waste, limiting material cuts, clarifying reinforcement locations and eliminating clash during the design process instead of in the field.

Learn more at EchelonMasonry.com/MasonryiQ