

3DiQ Frequently Asked Questions

1. Do you have a way to model the rebar in a 3D Model?
 - a. Not at this time in Masonry iQ. We do model rebar for masonry using CAD BLOX as a service. We are planning to add rebar to Masonry iQ in early 2019.
2. Do you have a button to push the bar schedule into the Model?
 - a. We are in development on a rebar solution that will populate a model with rebar from the structural bar schedule. It is scheduled to be in the market in early 2019.
3. Do you have parameters on lintel types?
 - a. Not at this time. We are in development on a solution that will create jamb, sill, and lintel types. It is scheduled to be in the market in early 2019.
4. When will the updated version be available to create beams, lintels and structural elements?
 - a. These features are part of the rebar package that is scheduled for early 2019.
5. Will the program create steel beam pockets?
 - a. We do not currently have a plan to create beam pockets. Please contact tom@3DiQinc.com if this feature is of interest.
6. How are the Bond Beams created? Can they be tagged in a structural model?
 - a. Bond beams are currently tracked in our data model and wall hosted sweeps are created in Revit. They would have to be mirrored in the structural model as beams. If generating beams in the structural model is of interest, please contact tom@3DiQinc.com to discuss.
7. When will the update be available for when section cuts are changed and dimensions disappear?
 - a. We are still considering how to resolve this issue. Changing a masonry section profile is likely to move bed joints and would require the user to relocate dimensions anyhow. Our current recommendation is to limit detail dimensioning until major design changes to the masonry are complete.

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8. Can section cuts be toggles on/off in views?
 - a. The plugin sets the Cut Pattern to “None” in the Graphics tab of the Materials for MasonryiQ walls. It then automatically creates location specific section line work in each section view. This line work is removed each time Analyze Bond is run to prevent sections being out of sync with model changes. If a typical Revit Cut Pattern is desired, then it can simply be added in the Masonry iQ Material’s Graphics tab after running Analyze Bond. It’s a work around, but will get the job done. We have a feature in backlog that will make this a true “toggle” for those who prefer.
9. Can you do a layout/detail in plan view?
 - a. Not in the current release, but this is in development and should be in the market before the end of 2018.
10. Can you control the line weights and hatching? (Very specifically in regions and for shadowing.)
11. Can 3DiQ work within AutoCAD?
 - a. The Masonry iQ plugin is currently only available in Revit.
12. Are bond beams over lintels automatic?
 - a. Bond beam locations are set manually by the user. The rebar solution that is in development will locate lintels and adjust masonry and bars automatically.
13. Is this plug-in basically a wall creation tool? Are these all built as stacked walls, with each course being a separate portion of wall?
 - a. The plugin creates an intelligent masonry family inside Revit. You can use the family for a single wythe wall or combine one or more families with other elements in a cavity wall. The walls are not stacked walls for each course. After analyzing the bond and the wall geometry, a custom PAT file is created for each elevation and sweeps are located at bond beams.
14. When a window is inserted, does the tool automatically put in a bond beam for you? Is it just over the window (+bearing) or does the bond beam go the entire length of the wall?
 - a. Bond beams run the entire length when the bond beam properties are set. At openings, the plugin does not assume masonry lintels since there are several options for lintels. A lintel solution is part of the rebar solution that is scheduled for release in early 2019. In that case, the plugin will generate sweeps at lintel locations that will follow structural schedules.
15. How are wall types named?
 - a. The program generates a wall type description that is a combination of the property settings. You are free to create your own name to identify the wall type.

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16. Does each course have the ability to have a separate material? Are there different surface patterns to indicate different materials or colors of brick, for instance?
 - a. You do have the ability to set properties for each course. If you want a particular pattern to span a region of the wall, you can indicate the height of the span as well. Any number of materials can be used to create material patterns.

17. Do we have the ability to place manual bond beams in just a portion of a wall, or is it the entire course that needs to change?
 - a. Currently selecting a bond beam will generate a sweep at the given elevation across the full length of the wall.

18. How does this tool work with structural designations? Do all bond beams automatically show up as structural elements? Are they listed as bearing?
 - a. Currently the plugin generates wall sweeps at bond beam locations in the architectural model. We do not generate structural beams at this time. We are working to add more structural support.

19. How are sill details, limestone headers, etc. handled? Just with sweeps like you would normally do, or does the tool help with that?
 - a. There is not currently support for sweeps at sills and headers so you would handle them as you would without the plugin. We are continually improving the tool and appreciate your input on features you'd like to see in future releases. Contact tom@3DiQinc.com to suggest feature additions.