BIM for Masonry Content Pack for REVIT
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Encouraging masonry BIM solutions for the design and construction industry
BIM for Masonry

BIM-M Symposium - May 4-5, 2017
The 2017 BIM-M Symposium, held in Addison, Ill., is intended for architects, engineers, masonry suppliers, contractors, BIM users, and owners. Presentations will include the use of digital tools for designing and detailing masonry projects in the BIM environment. Experts in BIM modeling will highlight several Autodesk Revit plug-ins, SketchUp modeling and Tekla modeling for design and construction, and case studies of masonry BIM.

Learn more and register for free

Now Available!

BIM Deliverables Guide for Masonry Contractors
BIM-M announces the availability of a new report titled “BIM Deliverables Guide for Masonry Contractors, Volume II”. Released at the 2017 World of Masonry in Las Vegas, this new guide was developed by the Contractor’s Group of BIM-M under the direction of Fred Kinzler, it supplements the first edition released in 2016. Groups may contact Fred for a live presentation of the Guide or download the guide for free.

Masonry Content Pack for Autodesk Revit
BIM-M announces the release of its new “Masonry Content Pack for Autodesk Revit.” This pack includes over 70 distinct models for brick and block, including a selection of bricks, blocks, and precast units, and is available for download.

Get Involved
Complete the form below to be contacted about getting involved with Building Information Modeling for Masonry (BIM-M).

Name:
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Best contact time: Morning
Comments:

Enter the text: 123456

Submit
BIM for Masonry Content Pack for REVIT
Midwest University

- Over 460 attendees
- 95 classes
- Tools and techniques
- Emerging Technologies

https://midwest-u.com/
Learning Objectives

• Learn how to download and install the Plugin.

• Understand the basic features of the plugin.

• Discover key content provided within the plugin.

• Develop an understanding of LOD for masonry.
Figure 1: S.E. Health Group Building Expansion 2D lift drawings generated by Revit model showing grout, rebar, bond beam and joist pocket locations
Figure 4: Washington High School 3D model showing different CMU types and locations generated by Revit model
### B1010.10 – Floor Structural Frame (Masonry Framing)

<table>
<thead>
<tr>
<th>Level</th>
<th>Description</th>
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<tbody>
<tr>
<td>100</td>
<td>See B10</td>
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<tr>
<td>200</td>
<td>See B10</td>
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| 300   | Element modeling to include:  
  - floor element with design-specified locations and geometries  
  Required non-graphic information associated with model elements includes:  
    - Member size, depth, and material with sloping geometry  
    - Spacing and end elevations  
    - Design loads  
    - Deflection criteria  

| 350   | Element modeling to include:  
  - Members modeled at any interface with wall edges (top, bottom, sides) or opening through wall  
  - Any regions that would impact coordination with other systems such as but not limited to:  
    - Bond Beam & Lintel Regions  
    - Reinforcing & Embed Regions  
    - Jam Regions  

34 B1010.10-LOD-200 Floor Structural Frame (Masonry Framing)  
35 B1010.10-LOD-300 Floor Structural Frame (Masonry Framing)  
36 B1010.10-LOD-350 Floor Structural Frame (Masonry Framing)
Element modeling to include:
- Reinforcing
- Connections
- Grouting Material
- Jams
- Bond Beams
- Lintels
- Member fabrication part number
- Any part required for complete installation
Level of Development - LOD for Masonry

Current REVIT Software
LOD 100-200
BIM-M – raising the bar

Courtesy of Lena Klein and Russell Gentry, Georgia Tech Digital Building Laboratory.
BIM –M Recommended LOD for Masonry is 350

BIM-M
LOD 350: Bond Beams, vertical bar-grouted cells, control joints
Figure 1: S.E. Health Group Building Expansion 2D lift drawings generated by Revit model showing grout, rebar, bond beam and joist pocket locations
Key Plugin Features

• Provide free Masonry REVIT Content.
• Provide Quality Masonry REVIT Content.
• Put at the fingertips of the design and construction community.
• Increase the level of detail (LOD) for masonry.
Seminar Highlights

• Where Do I get the Free BIM-M Masonry Pack?
• How Do I Download the BIM-M Masonry Pack?
• 2D Content
• 3D Content
• Brick & CMU Movement Joints
• Masonry Walls
• Bond Patterns
Where do I get the Masonry Pack?
www.bimformasonry.com
Where do I get the Masonry Pack?
www.ctcexpressstools.com
Where do I get the Masonry Pack?

www.ctcexpresstools.com

BIM is expanding quickly within the construction industry worldwide. However, the masonry industry is not well represented. Therefore, there is a need to develop BIM tools for masonry to maintain market share. With that intent, an Initiative was formed in 2012 specifically to advance BIM for masonry.

The Initiative BIM-M (Building Information Modeling for Masonry) includes many sponsors with an Executive Committee of its primary funding sponsors listed alphabetically:

- Brick Industry Association (BIA)
- International Masonry Institute (IMI)
- International Union of Bricklayers and Allied Craftworkers (IUBAC)
- Mason Contractors Association of America (MCAA)
- National Concrete Masonry Association (NCMA)
- The Masonry Society (TMS)
- Western States Clay Products Association (WASCA)

Each download includes the latest 2017 BIM Project Suite, Masonry Content Package version 2.0, and a how-to video for set up.

Fill Out this Form to Download Files

First Name
Mark

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Swanson

Email
mswanson@miweb.org

Company
International Masonry Inst

Submit
What Version of REVIT?

Thank you for filling out this form. We will use your e-mail address to send you updates when they are available.

Click on the button below to download the files for your version of Revit. The zip folder is 200-250 MB.

Download for Revit 2016

REVIT 2016

Download for Revit 2017

REVIT 2017

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Where does it download to?
Where does it download to?
Folder Structure
Put this folder here
Why use BIM List Browser?

• Loading Families – navigating folders is a drag.
• Sort, Search and Manage your Families.
• Locate Family files Quickly.
• Monitor Content – use the Favorites tab
BIM List Browser
Plugin Content: 2D
Plugin Content: 2D
3D Content: Bond Beams
3D Content: Bond Beams & Rebar

Bond Beams
3D Content: Movement Joints
3D Content: Movement Joints

Movement Joints
3D Content: Movement Joints
Masonry Bonding Patterns

- BRICK
Masonry Bonding Patterns

- CMU
Masonry Wall Standards .rvt

BIM-M
Building Information Modeling for Masonry

MASTERY CONTENT PACK
Version 2.0
Masonry Bonding Patterns