



## PGH Bricks Revit Content Introduction & User Guide

This document provides a detailed insight into the Revit Materials library supplied by <u>PGH Bricks</u>. The library is comprised of render-ready, correctly scaled Revit Materials that dimension and schedule efficiently. These Materials are then applied to System Family Walls that include additional schedulable technical product information.

Also covered in this document is an overview of the Revit content development methodologies used by <u>IGS BIM Solutions</u> in creating the Revit families, ensuring a consistent and reliable Revit Materials library.

Should you require Brick options outside the range of products detailed in this initial Revit Materials library, please contact PGH Bricks to discuss a solution that meets your specific project needs.







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## 1.0 PGH Bricks Revit Family Creation Considerations

The PGH Bricks Revit Materials library has been created to a consistent standard with the objective of finding a balance between the quality of visualisation outputs, accuracy of specification, level of product data / parameter usage, documentation capabilities, image / file size and performance in a project environment.

Primary content creation insights:

- 1. Families supplied in Revit 2015 format
- 2. Logical Materials and System Family naming has been applied
- 3. Consistent shared, family and project parameters (ANZRS, standard IGS and PGH-specific parameters) have been used sparingly, allowing PGH Bricks attributes to be scheduled in the Revit project environment.
- 4. All excess Materials, Material Assets, Line Patterns and Fill Patterns etc, in addition to all other unused items, have been Purged from the Revit Families / Project Files.
- 5. Logical and consistent Materials and System Family Type naming has been applied across all content.







## 2.0 Quick Start Image Asset Linkage Guide

A common challenge with utilising Revit Materials is losing the links to custom Material rendering assets. i.e. when you view a material in a project it appears 'Default' grey instead of how it should represent, as illustrated below.



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Before completing the image asset linking process recommended below, please consult your BIM / Revit Manager in case there is an existing Material Asset management protocol in place. For instance, some firms centralise their Material Assets on a server, others prefer to keep them in the local Autodesk folder. Although there are multiple ways to link image assets, we recommend using the 'Additional Render Appearance Paths' setting in the Revit 'Options' window. A visual summary of the steps required to complete this task is provided below.







- #1 If your office has an existing location for Material Assets, copy all associated PGH range(s) images into the given folder. Alternatively, create a local folder on your computer to place all custom Material Assets into. We suggest putting steps in place to keep the file path short and to ensure it does not move. E.g. C:\Revit Image Assets\IGS Created Content\PGH Bricks
- Once images are in the correct location. **#2** Select the Revit icon button, then **#3** Options.
- In the Options dialog select **#4** Rendering and then the **#5** plus '+' sign.
- Step 4: Navigate back to the folder you have the image assets in #1, copy them and paste into the #6 text field OR alternatively you can navigate to the file location hitting the square #7
- Step 5: Select OK then close all open Revit projects. Upon reopening the image render assets will be visible when you view in Realistic or Rendered modes.
  3.0 PGH Bricks Revit Content Library Overview





Optimised Material Appearance Swatch Materials Identity Data Images Material Shading Appearance **Optimised Material PGH Bricks & Pavers** Appearances Swatch Bump Material Hatch Pattern Wall System Familes Created Material Cut Patterns within Revit Project Revit Project File - Wall System Families - Virtual Showroom: - Materials Applied to System Wall Families with Metadata - Visualisation - Material Product Overview - Material Documentation Overview - Materials Quantity Schedule

The PGH Bricks Revit content library is broken up into the following Revit components:

The metrics of the library and insights to the above inclusions are found below:

#### 3.1 Product Ranges

39 product ranges have been included in this PGH Bricks Revit Materials library in addition an *All Ranges in One* project file has been supplied:



3.2 Each Library Contains



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The Revit Materials library for each product range and the *All Ranges in One* project contains a Virtual Showroom - Revit project file and an accompanying image asset subfolder. Within the image asset folder, you will find tileable image asset JPG files that have been highly optimised to achieve a balance between clarity and file size. The result is all images are between 38 – 316KB per asset.



In addition to the Revit optimised image assets, PGH Bricks also supplies High Resolution image assets that can be used for post-processing of renders in Photoshop etc. Alternatively, you can swap out the Revit Optimised images for higher resolution renders. A contrast between the resolution of each image type and resulting file size is shown below.





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**Optimised High Resolution Image** File Size: 2.94 MB

#### 3.3 **Virtual Showroom - Revit Project Files**

39 Virtual Showroom - Project files contain 316 materials for the given product range and demonstrate how the products visualise, document and schedule in the Revit project environment. A typical project is populated with the following core aspects.







#### 3.4 39 Product Ranges - 316 Materials Applied to Walls

Below provides a visual of all 39 product ranges combined in the *All Ranges in One* project file comprising of 316 Materials.

The PGH Bricks Virtual Showroom - Revit projects all allow for a 'Copy & Paste' or Transfer Project Standards workflow into your Revit projects.





#### 3.5 Dimensionally Accurate Materials

All materials include dimensionally accurate Hatch and linked Render Asset as illustrated below:







#### 3.6 Consistently Defined Materials

All materials have been consistently defined with PGH product information in a lightweight manner to ensure enough context to select, document and specify PGH products without burdening your Revit project Material libraries.



#### 3.7 Materials Applied to Fully Defined Walls

Sample walls have been setup to reflect each product variation. Included in these walls are the product's technical products mapped to Project Parameters that will Copy/Paste into your project or via 'Transfer Project Standards' allowing you to schedule the values natively in Revit.

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#### 3.8 All Excess Information Removed and Purged from Virtual Showrooms

We have ensured no unnecessary clutter is Copied or 'Transfer Project Standards' into your projects by removing all excess Materials, Material Assets, Line and Fill Patterns as well as completing a full Purge of the Virtual Showroom – Revit Project files.



#### 3.9 Prepopulated Elevations

The Virtual Showroom – Revit Project files contain prepopulated Elevations allowing for an easy visual insight into how different products will document in your projects – i.e. how the hatch patterns match the realistic image render assets.

In addition, each product has been Tagged by its Model name providing a quick way of tying products back to PGH online or printed literature. In section 4.0 below you will also see how you can leverage elevations to manipulate the orientation of the bricks.







#### 3.10 Pre-populated Elevations

The Virtual Showroom – Revit Project files also contain prepopulated Materials and Wall Schedules. You will note that the Detailed Wall Schedule picks up on a lot more of the Brick products' technical attributes than what is available/possible in the Material properties.

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## 4.0 Advanced Content Usage Tips & Tricks

Outlined below are a few tips and tricks allowing you to get the most out of the PGH Revit content. Please note, always refer back to PGH literature and/or consult a PGH consultant to discuss if your design is possible.







#### 4.1 Aligning Brick Position/Orientation

Due to the Hatch Patterns matching/mirroring the Render Asset images it is very easy to orient the bricks to your preference.

Steps listed below to achieve this include:

- **#1** in 3D OR Elevation Views hover over the Hatch Pattern in any Visual Style other than Realistic or Ray Trace. Press Tab until you have the line activated as shown.
- **#2** Select Move and move the line from **#3** to **#4**.
- The result is your brick course will not line up correctly with the top and side of your wall **#5**. Note the Render Asset will follow the Hatch Pattern and hence before **#6** and after **#7** will occur.





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#### 4.2 Rotating Brick Position/Orientation

In a similar process to what was outlined above the brick Hatch Pattern can also be rotated. Follow the same principle and instead of selecting Move select the Rotate Button.





Before	



#### 4.3 Painting Bricks

The below approach means you do not have to have separate geometry to apply different Brick finishes. Do keep in mind that the Revit 'Paint' tool will not see the materials applied in the geometry schedule, however it will show up in the Materials schedule.

Steps involved: **#1** select Split Face tool, **#2** Split your geometry, **#3** select Paint tool, **#4** navigate to the desired Brick finish, **#5** Click on where you want the Brick finish.







#### 4.4 Custom Embossed Brick Patterns

Summarised below are the steps required to create an embossed brick pattern leveraging the accurate Hatch Patterns with tied Render Assets.

Steps involve. **#1** Mirror and existing Wall, **#2** offset the wall back into the existing Wall by the desired amount, **#3** Edit the new Wall and delete the bounding box of the Wall and start tracing Bricks using the underlying wall as a guide. You can use Mirror and Copy/Paste to expedite the process, **#4** Once completed you will have individual Bricks embossed.

Note. To complete the task correctly you should then create the inverse of the 2<sup>nd</sup> Wall layout in the 1<sup>st</sup> Wall to mitigate duplication of Walls in the same place.









## 5.0 Closing Statement

The overarching goal in creating this Revit content library is to increase the ease in which Revit users can design, document and specify PGH Bricks' products within the Revit environment. PGH Bricks is committed to the continued development of this Revit content library as the industry and BIM workflows evolve over time.

We welcome your feedback and insights to ensure we can continue to accommodate your Revit content requirements.



End of Document -