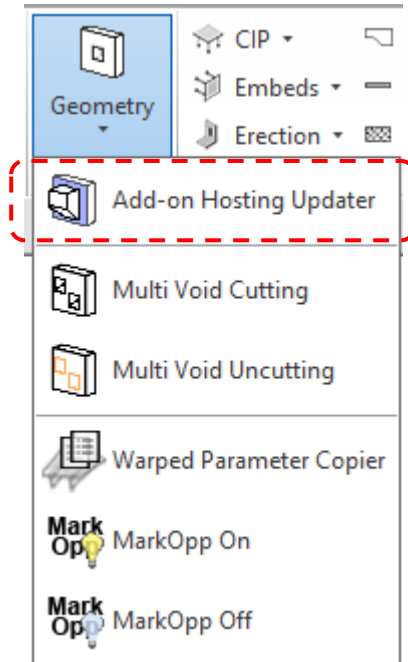


Geometry Tools: Add-on Hosting Updater



Programmed Result of Tool:

Updates parameter values for each add-on (corbel, ledge, pilaster, cornice and etc.) to match the parameter values of the host structural framing member.

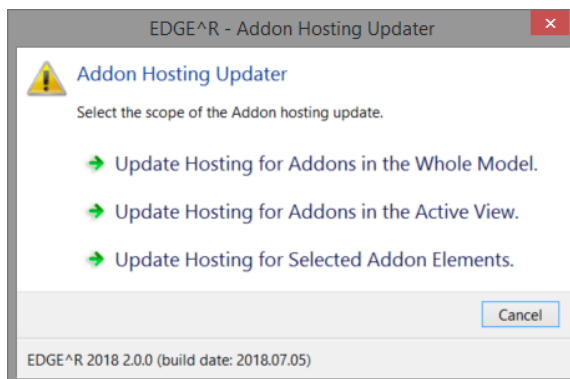
Parameter Values updated:

CONSTRUCTION_PRODUCT, PROD_EREC_SEQ and Material

Steps to Perform tool Operation:

The tool will automatically find and update all add-ons per the selection set provided by the user (whole model, active view, or selected elements).

- 1) User clicks the Add-on Hosting Updater Tool icon
- 2) User then selects the desired scope of the tool to specify the selection set for the tool to perform the update operations



Known Limitations:

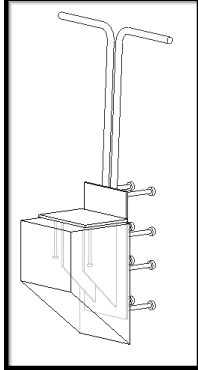
- This tool requires the add-on to be of the Specialty Equipment or Generic Model classification and have a Family name that contains ADDON, CORBEL, PILASTER, LDGE, LEDGE, CORNICE, SOLID_ZONE_RECTANGULAR, or SOLID_ZONE_TAPERED.
- This tool requires a nested connector component for co-planar add-ons to be found and updated.
- This tool requires the Structural Framing Element to have a material with a name that contains PRECAST.

Geometry Tools: Add-on Hosting Updater

Using Addon Hosting Updater with nested addons:

To utilize the Addon Hosting Updater with special family conditions where the user wishes to nest an addon family in a larger/more complex connection family, there are a few special considerations which must be implemented in the family design.

As example of this type of family is pictured here:



In this example a corbel family has been nested inside a more complex connection family. Here it is important to recall that Revit parameters behave differently between Project Level parameters, Family Parameters and Parameters on Nested Families. If a Project Level Parameter has been added to a category (or multiple categories) of element(s), all elements, including those nested in other families, will carry those parameters and the user can write directly to those parameters. On the other hand, if a parameter is associated with a particular family, it will a) only exist on types/instances of that element, but more importantly b) if that family is nested inside another family, the parameters of the nested family cannot be edited directly from the project environment. This is because the containing family “owns” the nested family and is in control of the nested family and its parameters.

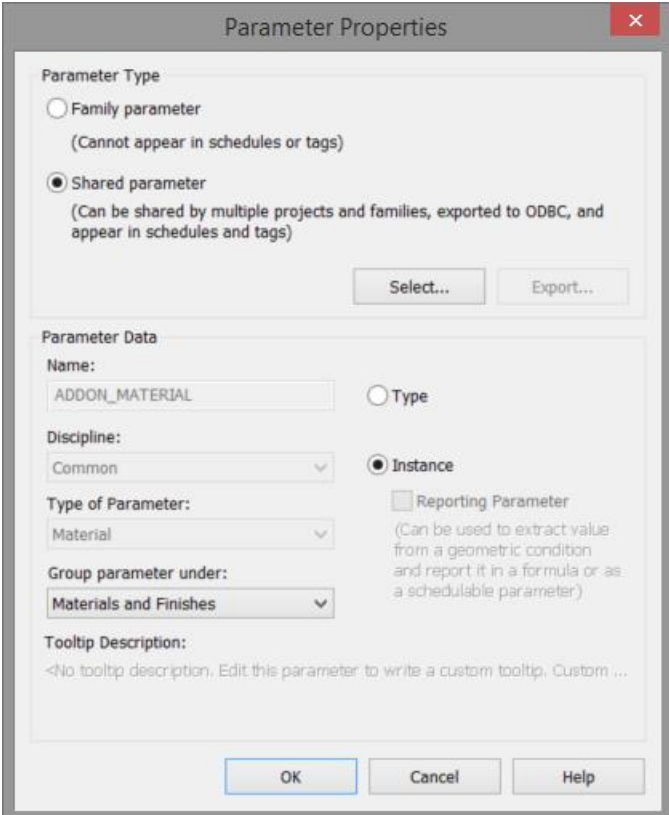
In the EDGE[^]R system, several very important parameters are written to corbels and other addon concrete components which facilitate proper material accounting and volume/weight calculations.

1. Material for the addon component:

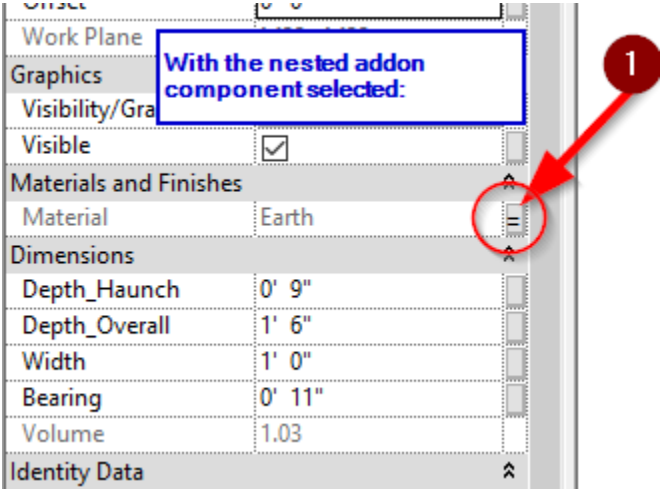
- a. The addon component Material parameter is a shared parameter which must be driven from the top level of the family into the nested family.
- b. “Material” is only appropriate when referring to various sub-components of a family similar to the one pictured above, the material parameter for the addon component must be named “ADDON_MATERIAL”. This will be a shared parameter on the top level family which is of type “material” and is instance based.
- c. The ADDON_MATERIAL parameter can be found in the EDGE[^]R Shared parameters file.



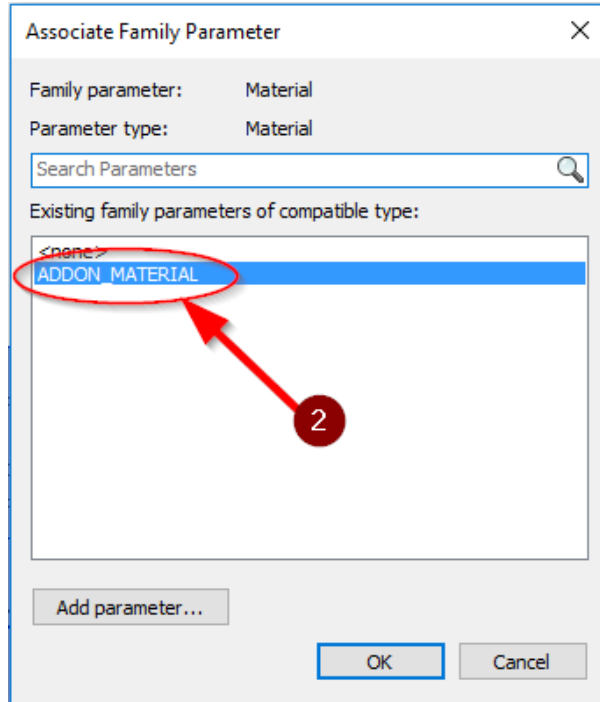
Geometry Tools: Add-on Hosting Updater



- d. This new shared instance parameter will need to be “wired” to the nested addon’s “Material” parameter:



Geometry Tools: Add-on Hosting Updater



- e. Once this parameter is wired through, changes to the “ADDON_MATERIAL” parameter on the family will control the “Material” parameter on the nested family.
- f. For Addon Hosting Updater to function properly, both the ADDON_MATERIAL parameter must be present on the top level family, and the Material parameter of the nested addon must be wired to the ADDON_MATERIAL parameter as shown above.

Geometry Tools: Add-on Hosting Updater

2. Construction Product Parameter

- a. The Construction Product (CONSTRUCTION_PRODUCT) parameter is also a shared parameter which needs to be wired through to the nested add-on component.
- b. Follow the steps above to wire the top level family's CONSTRUCTION_PRODUCT parameter to the nested add-on's CONSTRUCTION_PRODUCT parameter.

Parameter Properties

Parameter Type

Family parameter
(Cannot appear in schedules or tags)

Shared parameter
(Can be shared by multiple projects and families, exported to ODBC, and appear in schedules and tags)

Select... Export...

Parameter Data

Name: CONSTRUCTION_PRODUCT Type

Discipline: Common Instance

Type of Parameter: Text Reporting Parameter
(Can be used to extract value from a geometric condition and report it in a formula or as a schedulable parameter)

Group parameter under: Data

Tooltip Description: <No tooltip description. Edit this parameter to write a custom tooltip. Custom t...

OK Cancel Help

- c. The CONSTRUCTION_PRODUCT parameter can be found in the EDGE^R Shared parameters file.

