Fielders Finesse® Revit Content Introduction and User Guide

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Introduction

This document provides a detailed insight into the Revit content library supplied by Fielders for the Finesse® Product Range. This parametric content is comprised of both System and Loadable Revit families, all created natively in Revit, allowing users the ability to design and document Finesse's Architectural Cladding product ranges.

Also covered in this document is an overview of the Revit content development methodologies used by IGS BIM Solutions in creating the Revit families, ensuring a consistent, robust and reliable Revit library. Ultimately, the Finesse® Revit families should require minimal, firm-specific localisation /standardisation to become the 'go-to' Revit families when architectural cladding solutions are required in a Revit project.

Should you require cladding options outside the range of products detailed in this initial Revit content library, please contact Fielders to design a custom solution that meets your specific project requirements.

Finesse® Neo Roman 475mm

Finesse® Boulevard 485mm

Finesse® Prominence 265mm

Finesse® Prominence 465mm

Finesse® Grandeur 525mm

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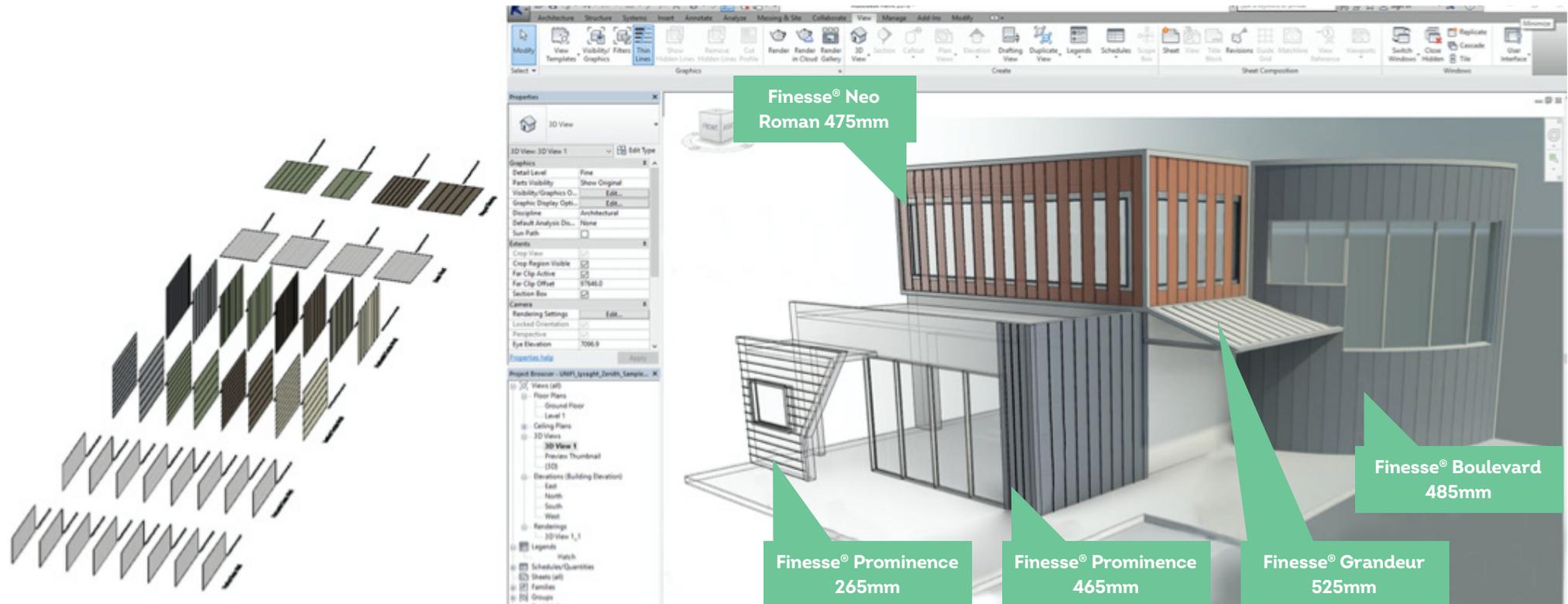
1.0 Finesse® Revit Family Creation Considerations

Finesse® Revit families have been created to a consistent, high standard with the objective of finding a balance between complexity of use, functionality, documentation output, file size and performance in a project environment. Primary content creation insights and considerations are listed below:

1. Families supplied in Revit 2016 format.

2. Native Revit geometry used throughout, including nested families. (E.g. no AutoCAD or SAT files etc.)

3. Consistent family and shared parameters (ANZRS and standard UNIFI parameters) have been used sparingly, allowing Finesse® attributes to be scheduled in the Revit project environment.

4. ANZRS-based Subcategories and additional Finesse®-specific Subcategories (names only) have been applied to all geometry and linework. Resulting families allow users to fully customise how the cladding documents in a Revit project via View Templates and overrides.

5. Reference Planes have been applied, named, tidied and set to the correct 'Is Reference'. Thought has been given to the likely end-user requirements in placement / alignment and dimensioning of the families.

6. All Warnings have been reviewed and removed where possible.

7. The families have been fully Purged and all additional Materials, Line Patterns and Fill Patterns removed.

8. Logical and consistent Type naming has been applied across all families.

9. Family file sizes have been optimised to be relatively small in the context of the family's overall capabilities, minimising the burden of Finesse® families in Revit projects.

2.0 Finesse® Revit Content Library Overview

The Finesse® Revit content library is broken up into the following Revit components:

Basic Materials Library		Sloped Glazing System Families
2D Profiles Library		Curtain Wall System Families • Horiztonal & Vertical Installations
2D Detail Components Library	**Finesse®** **Revit Content**	Standard Wall System Families • Horizontal & Vertical Installations
2D Repeating Details Library	**Sample Revit Project** • **Visual Product Overview** • **Documentation Overview** • **Product Schedule Overview**	

Revit library metrics and intended use of each component are listed below:

2.1 Product Ranges

Six product ranges have been included in this Finesse® Revit content library including:

· Fielders Boulevard™

· Fielders Cadence™

· Fielders Grandeur®

· Fielders Prominence™

· Fielders Shadowline® 305

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2.2 Basic Materials Library

Twenty-nine very basic, non-intrusive COLORBOND® steel materials have been included in the Revit library. All unused material assets have been deleted from the families and all material assets purged where possible.
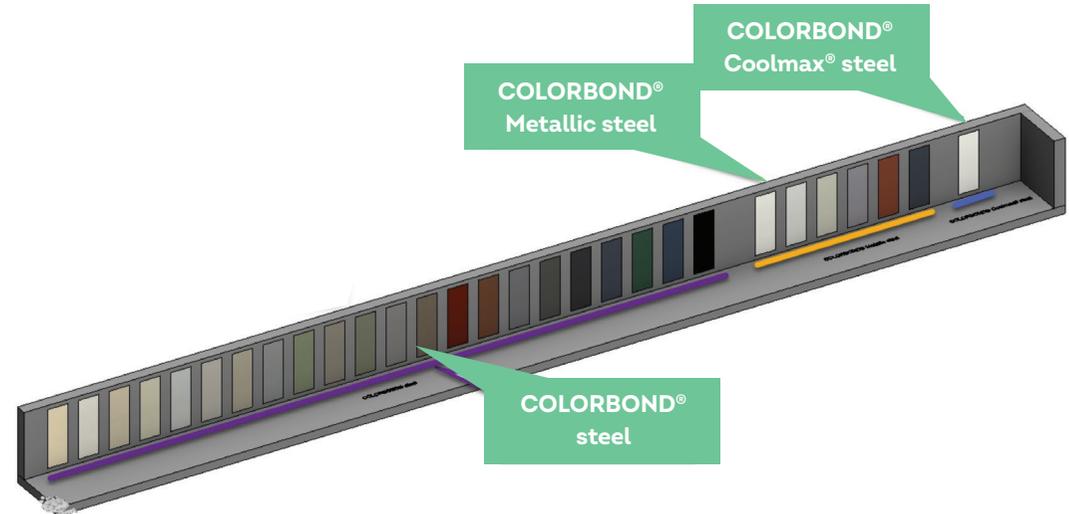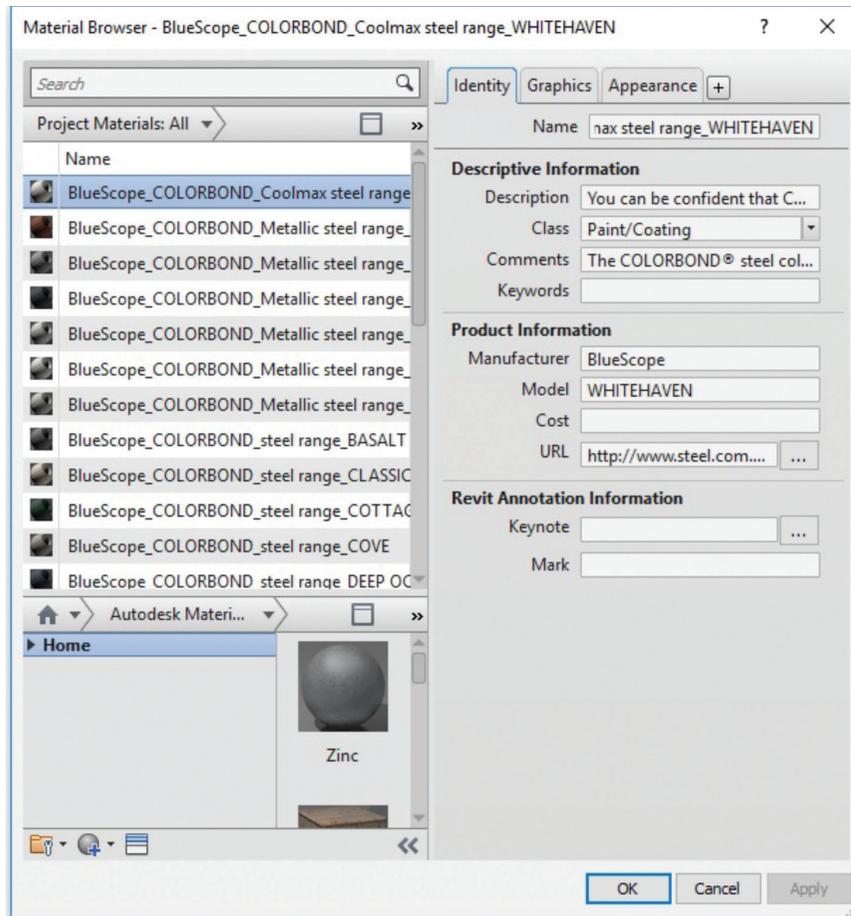
2.3 Profile Families

Six Profile families represent the 6 x cladding products. These Profiles form 'building blocks' behind the Mullions in the System Curtain Wall and Sloped Glazing families. These Profile families can also be used in other System Families to create custom Finesse® system designs.
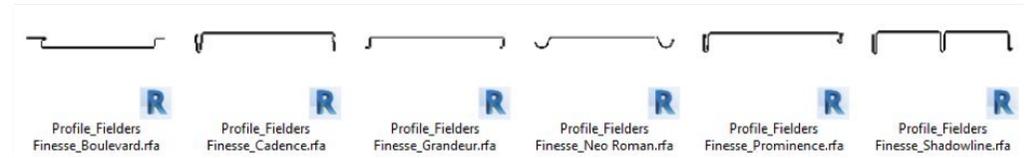
2.4 Detail Items

Six Detail Items have been created to aid in 2D detailing of your Revit projects.

2.5 Repeating Details

Six Repeating Detail families have been included to further assist in 2D Revit project documentation.

2.6 Sample Revit Projects

One Revit project has been created containing the 6 x product ranges (Boulevard™, Cadence™, Prominence™, Grandeur®, Shadowline® and Neo Roman®. In addition to all of the items listed above, the following items are also documented and available in the sample Revit project file. All of these assets can be 'copied & pasted' into another Revit project.

2.6.1 Preconfigured Standard Wall System Families

Twenty-two Standard Wall System Families and nine Standard Roof System Families allow users to very basically document Finesse® cladding products. Standard Wall and Roof families are set to the correct thickness for the given product and allow for square metre take-off schedules. Standard Walls & Roofs are a good solution for large installations where the Finesse® Curtain Wall Systems Families can be too 'processor intensive' for the specific project application.
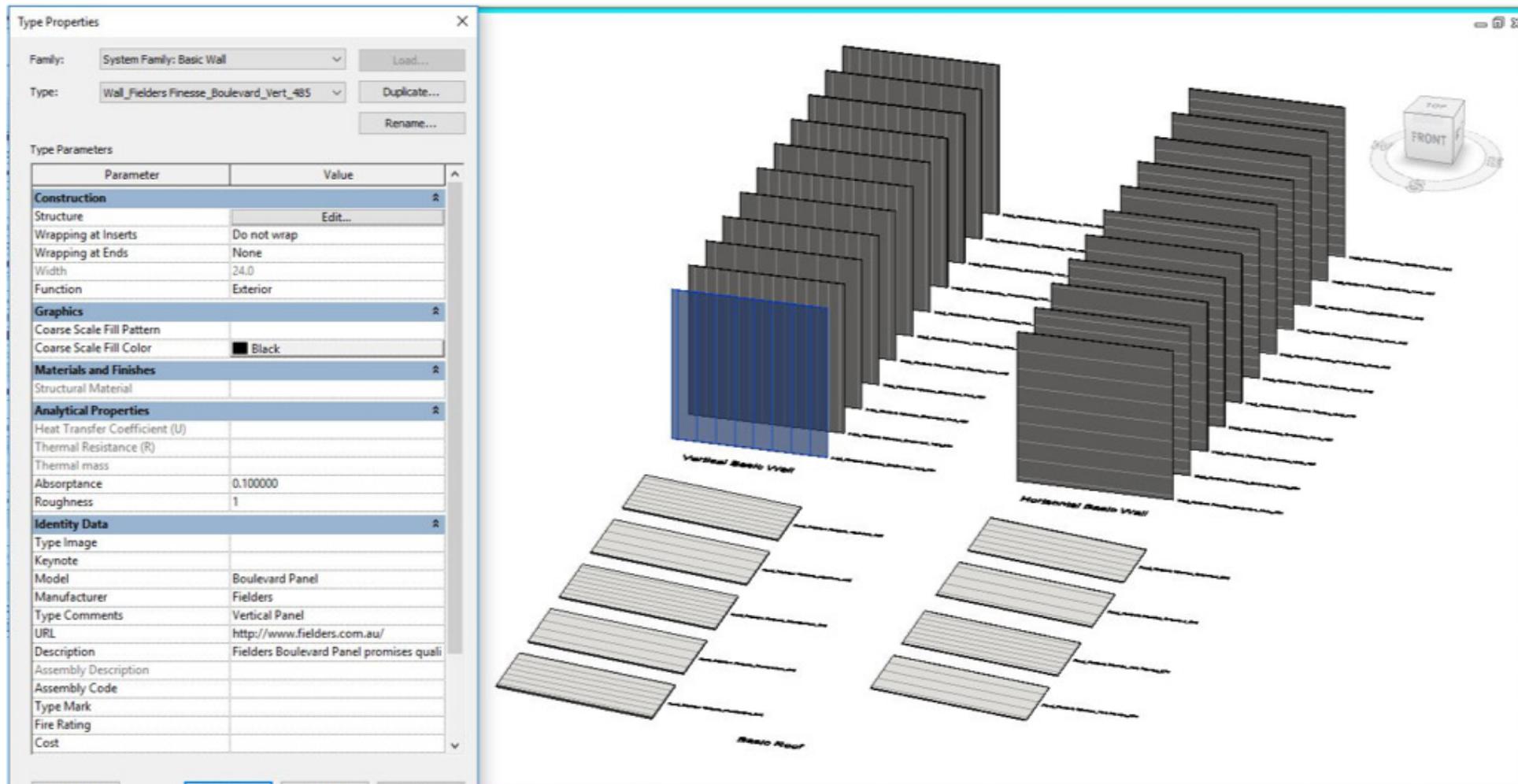
2.6.2 Preconfigured Curtain Wall & Sloped Glazing System Families

Twenty-two Standard Curtain Wall System Families and nine Sloped Glazing System Families both work in a similar fashion to each other. They allow users to apply the six differed cladding systems to vertical and horizontal (where applicable) surfaces.
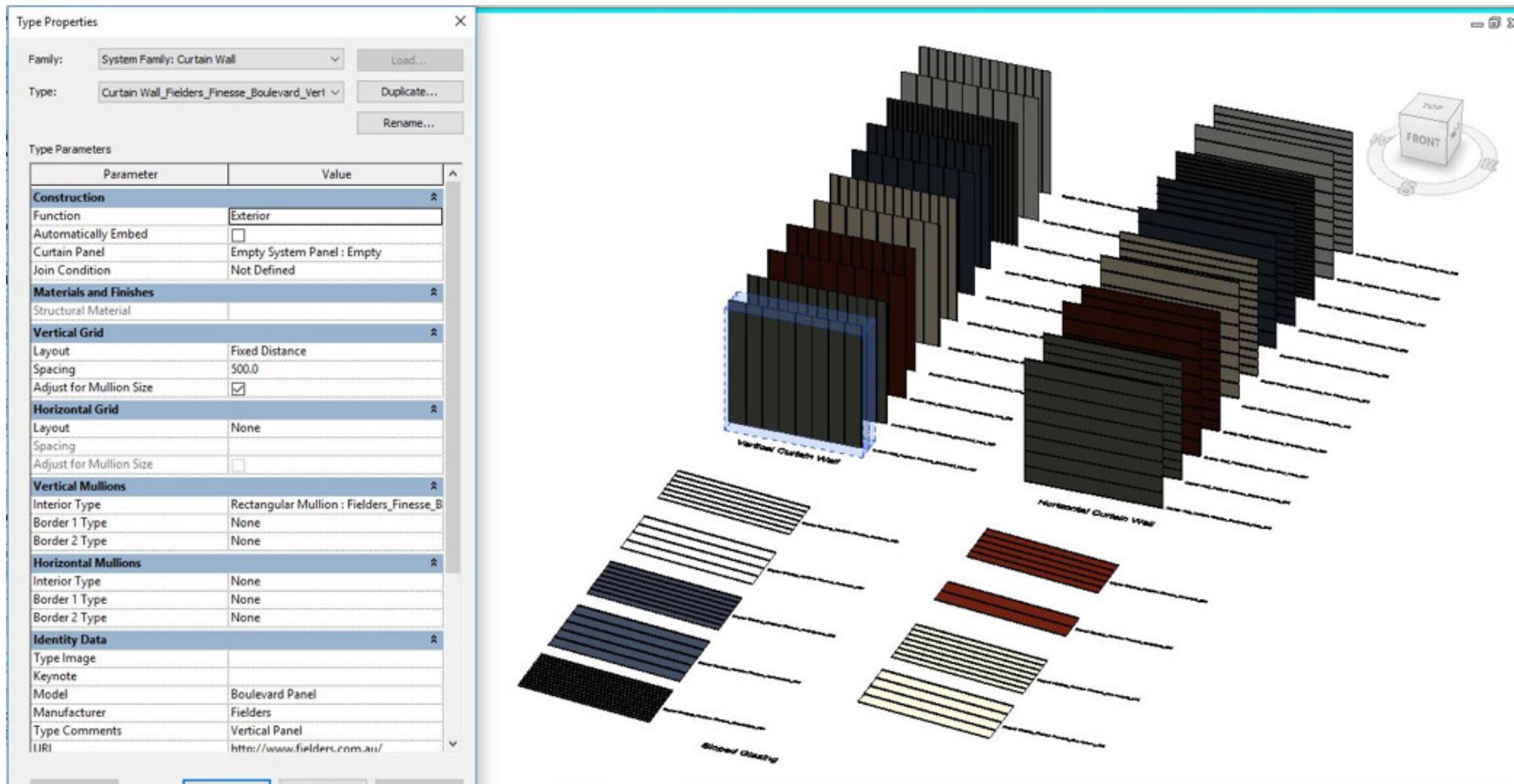
3.0 Finesse® Sample Revit Projects Insight

The Finesse® sample Revit project contains the following items that can be 'copied & pasted' into your Revit projects.

4.0 Finesse® Revit Content Selection & Key Parameters

At all times it is recommended users familarise themselves with the most up-to-date Finesse® product literature at http://specifying.fielders.com.au or speak to a Fielders representative.

The Finesse® Revit library has been created with the following end-user workflow in mind:

4.1 Range Selection

What product do I required?

- Fielders Boulevard™
- Fielders Cadence™
- Fielders Grandeur®
- Fielders Prominence™
- Fielders Neo Roman®
- Fielders Shadowline® 305

4.2 Family Type Selection

Depending on what is required to best document your project, the following options are available:

a) A preconfigured System Family of the product stored in the sample Revit project

b) An individual Profile Family supplied to develop your own System Families

c) A 2D Repeating Detail Family can also be utilized

Profile Family

Preconfigured System Family

2D Repeating Detail Family

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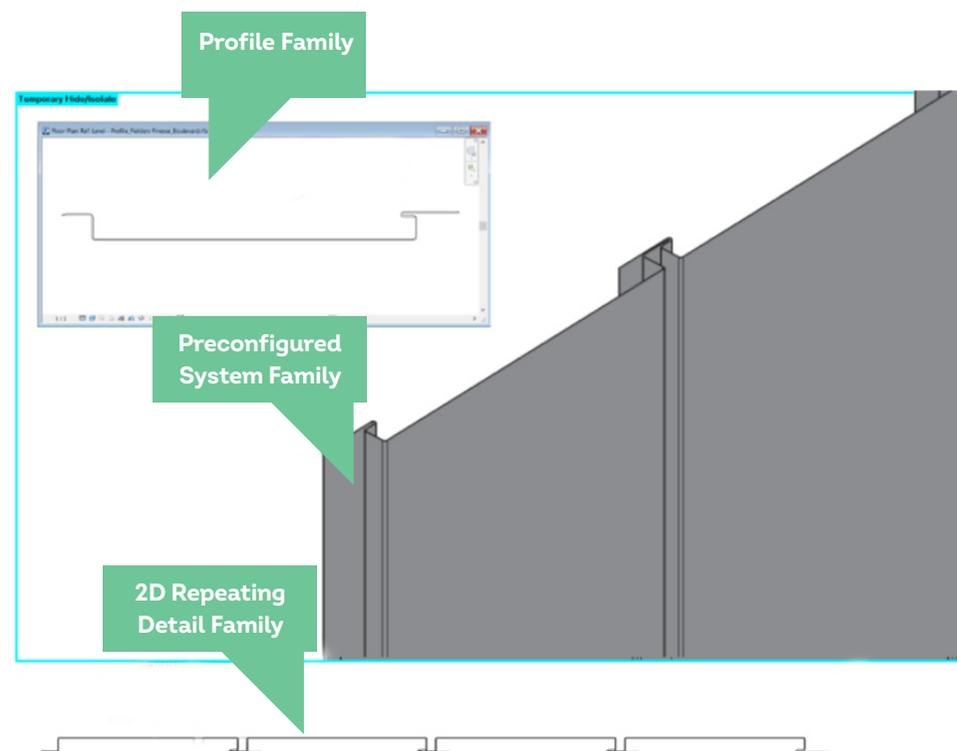
4.3 Basic Wall System Family Insight

The Basic Wall System Families are simply modelled on the wall thickness equal to the cladding thickness and include a hatch pattern to symbolize the cover width of the product.
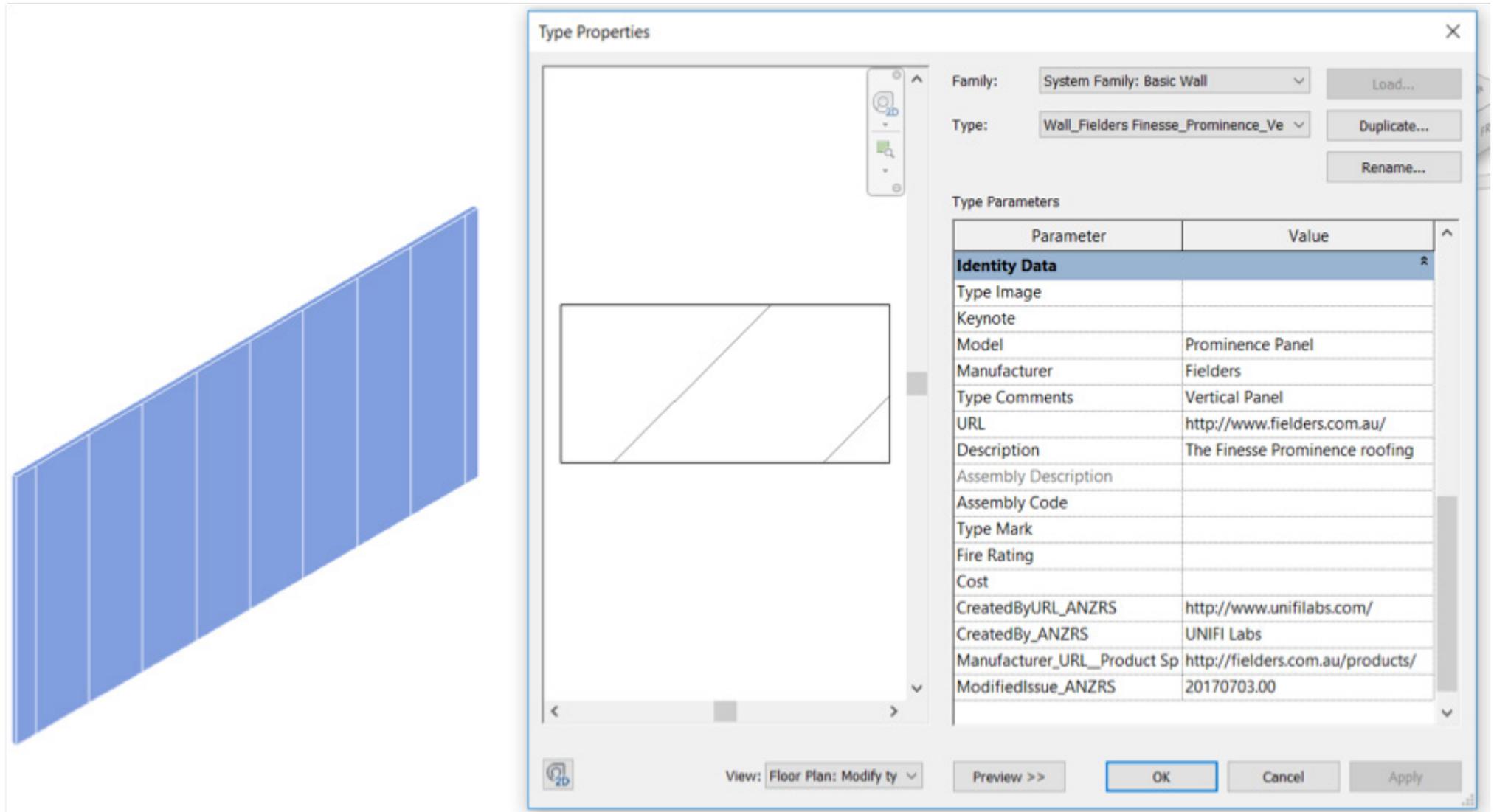
4.4 Curtain Wall & Sloped Glazing System Family Insight

The Curtain Wall and Sloped Glazing (for applicable products) allow users to automatically create a wide variety of different Finesse® product combinations. The standard profile sizes provided in the sample Revit project demonstrate the standard profile sizes.

If custom sizes outside the standard profile widths are required, the steps outlined below can be followed. Reference should also be made to the minimum and maximum widths achievable for each profile prior to creating custom widths. These can be found on specifyingfielders.com.au.

The following process is demonstrated using Curtain Walls, however, the same principles apply to the supplied Sloped Glazing System Families:

1   Unpin one of the Curtain Wall Mullions

Boulevard
285mm Min Size

Boulevard
485mm Min
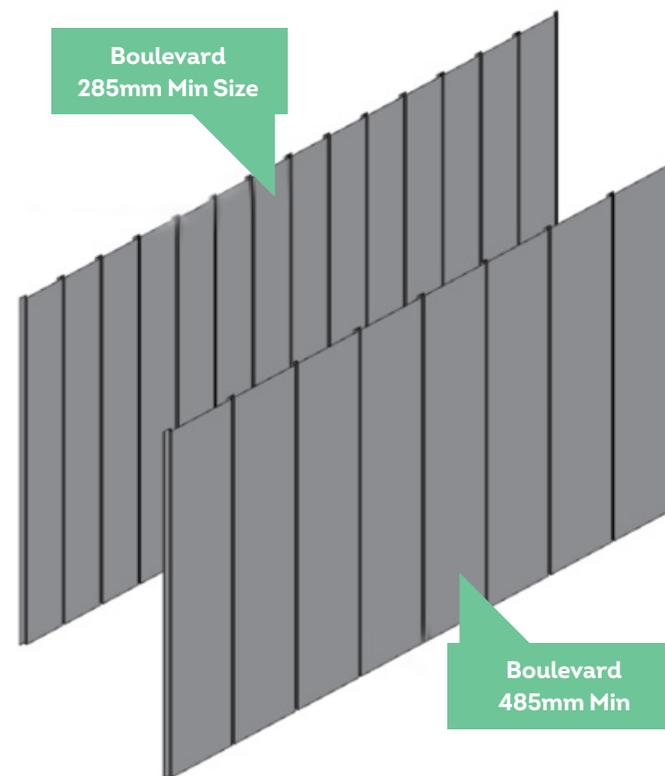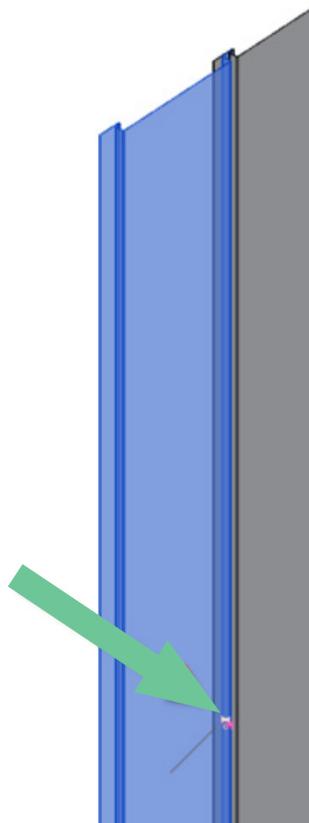
2   Edit the Mullion, duplicate it and create a new Type to match the new Mullion size (ensure it is within the minimum and maximum Finesse® specifications). Then click OK.

3 Navigate to Profiles and create a new Type and label appropriately (ensure it is within the minimum and maximum Finesse® specifications)

Project Browser - UNIFI_Fielders Finesse Sample Proj... ✕

- Pattern
- Pipes
- Piping Systems
- **1** Profiles
  - M_Circular Handrail
  - M_Fascia-Flat
  - M_Gutter - Bevel
  - M_Rectangular Handrail
  - M_Slab Edge-Thickened
  - **2** Profile_Fielders Finesse_Boulevard
    - Boulevard Profil...

      3

      | New Type |
      | Delete |
      | Rename... |
      | Edit |
      | Save... |
      | Reload... |
      | Search... |

    - Boulevard Profil...
    - **4** Boulevard Profile 350 → Boulevard Profil...
    - Profile_Fielders Fine...
    - Profile_Fielders Fine...
    - Profile_Fielders Fine...
- Railings
- Ramps
- Roofs

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4 Double click on the new Type created and update the Panel Size parameter appropriately (Finesse®) or the Manufacturer_Overall_Width parameter for all other profiles (ensure it is within the minimum and maximum Finesse® specifications).

Boulevard 285

Grandeur 325

Neo Roman 265

Prominence 265

5 Now click on the unpinned Mullion from Step 1 and apply the new 350 Profile to the 350 Mullion Family. Click OK.

6 Select the Curtain Wall in the project. Edit Type, Duplicate, rename to match the new 350 Type. Click OK.

7 Now select the Mullion and set the Spacing to be the Mullion cover width.

8 Now re-pin the first panel to the Curtain Wall Mullion from Step 1 and it will update to match the rest of the panels:

Temporary Hide/Isolate

Pin (PN)
Locks a model element in place.

Press F1 for more help
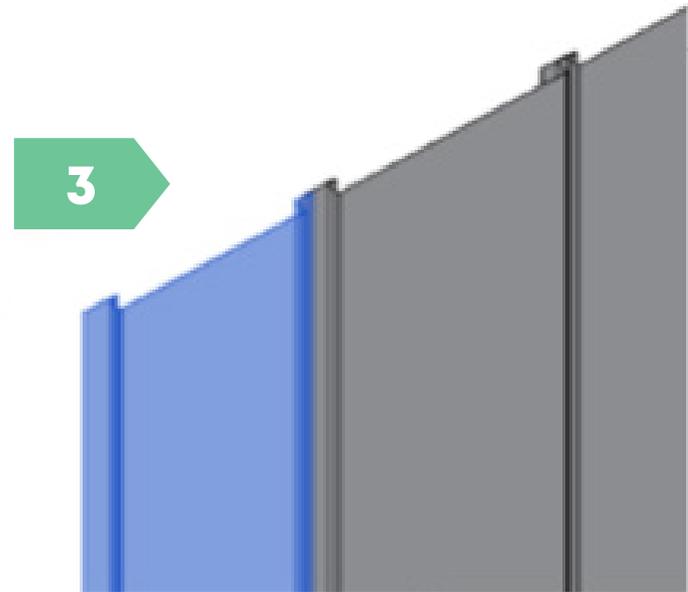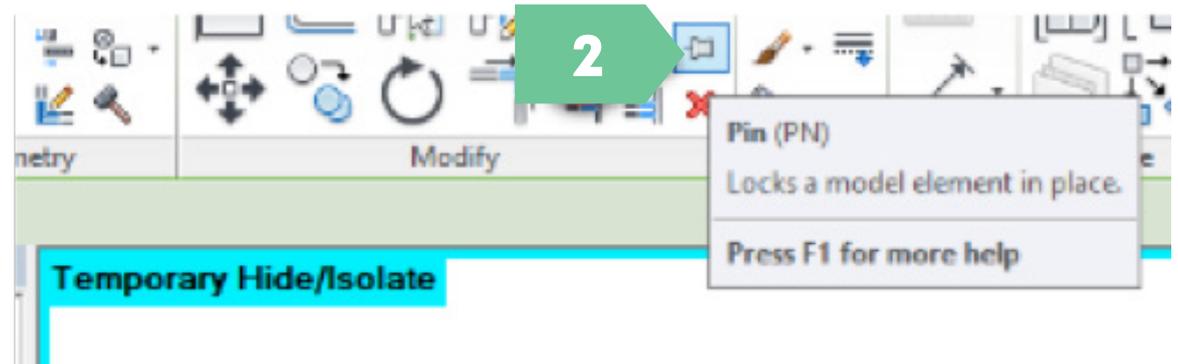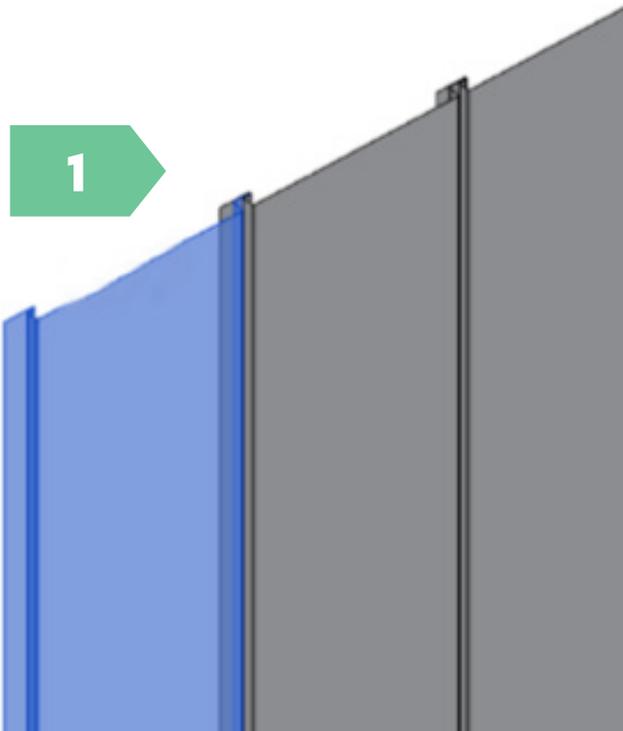
9 You have now updated the Boulevard™ product Curtain Wall to a 350mm Panel Size at the default 15mm Joint Size resulting in a cover width of 365mm.
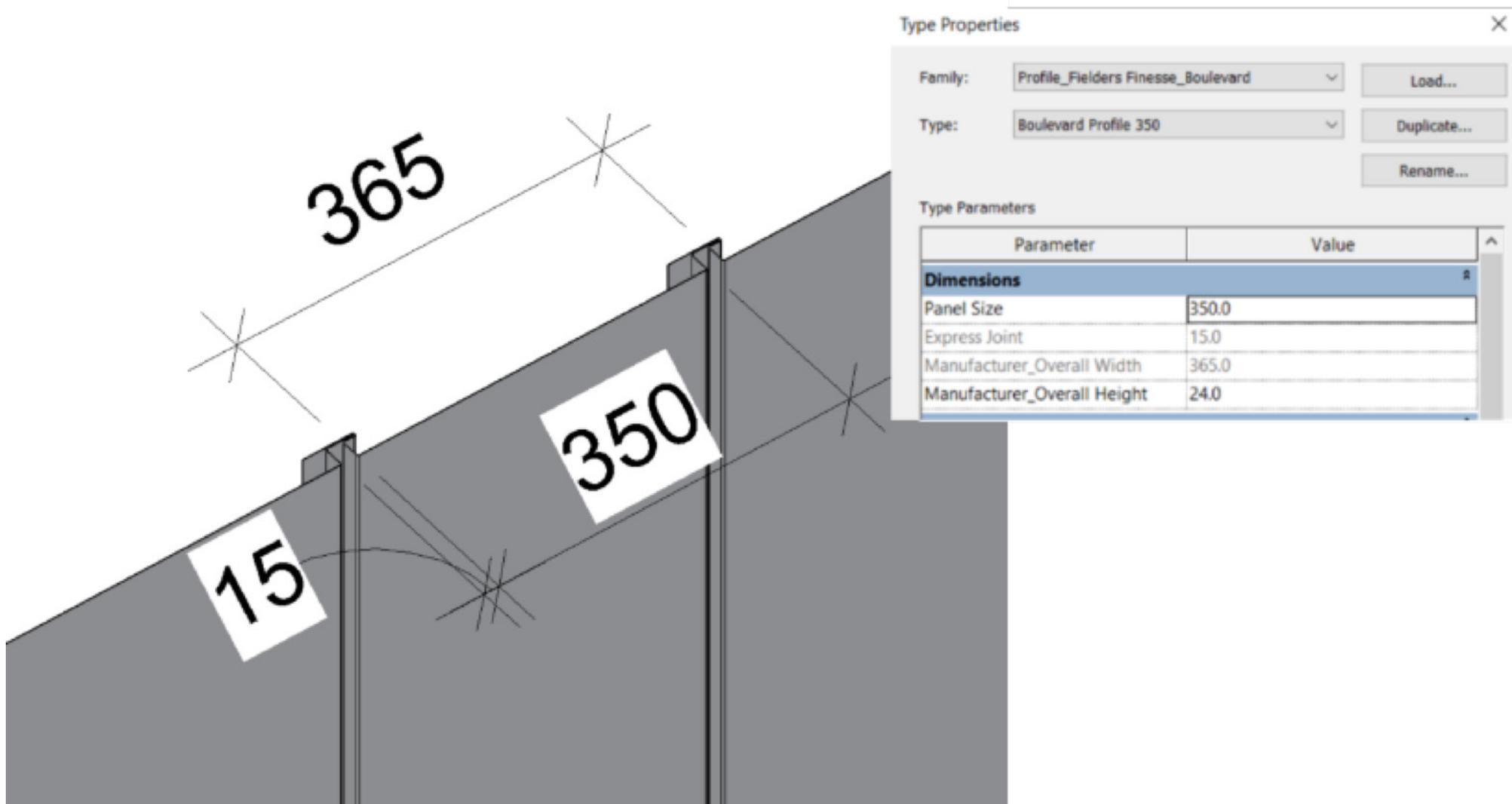
5.0 Closing Statement

The overarching goal is creating this Revit content library is to increase the ease in which Revit users can design, document and specify Finesse® products within the Revit environment. Fielders 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.
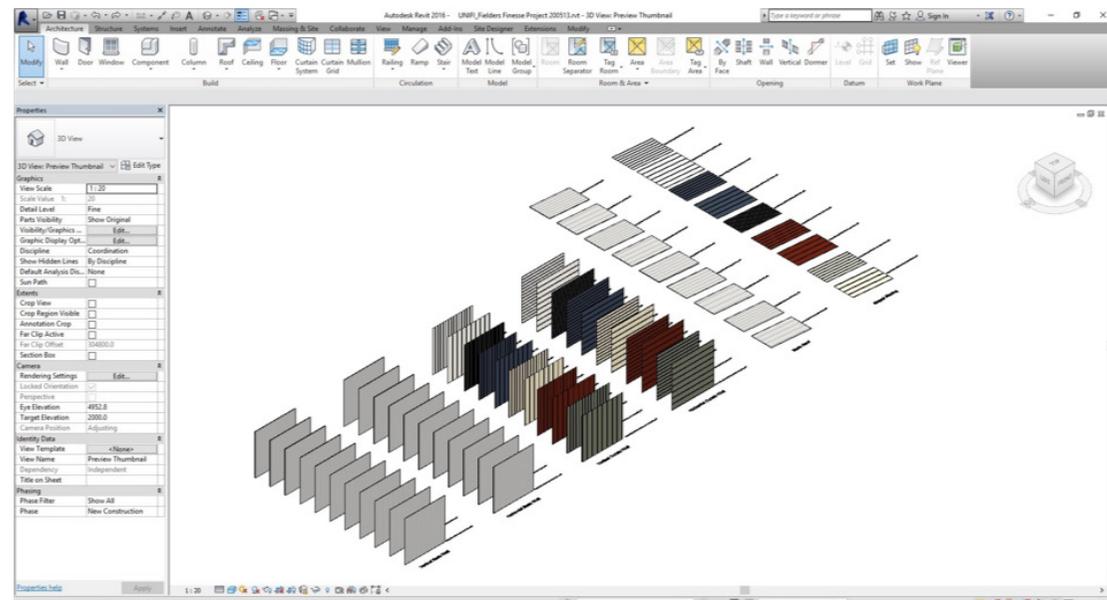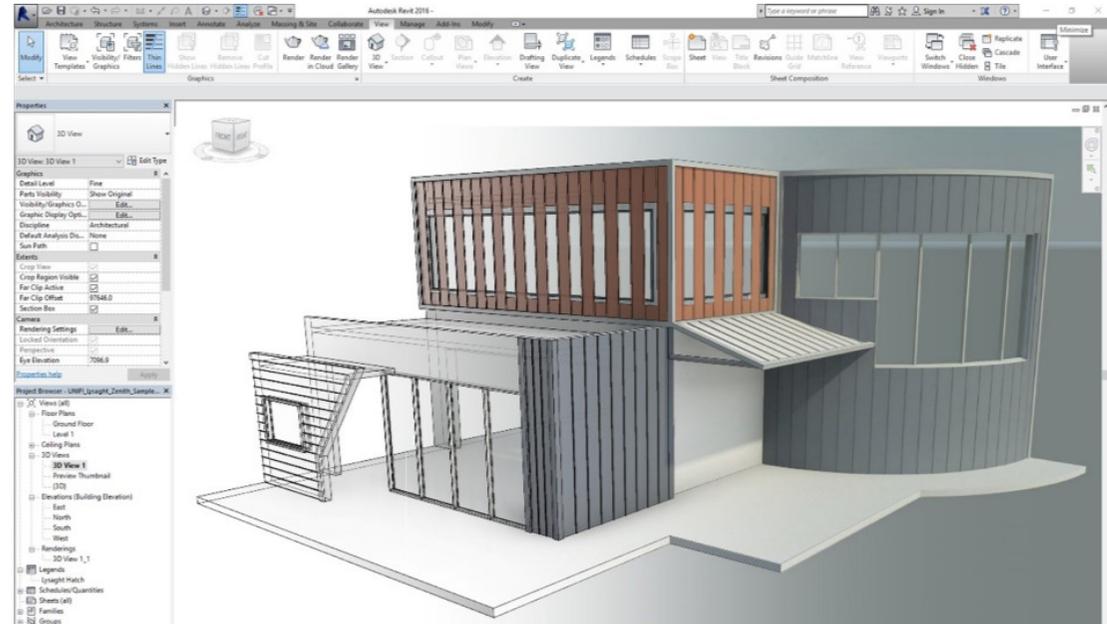
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