



Fielders Finesse® Revit Content Introduction and User Guide

December 2021



Table of Contents

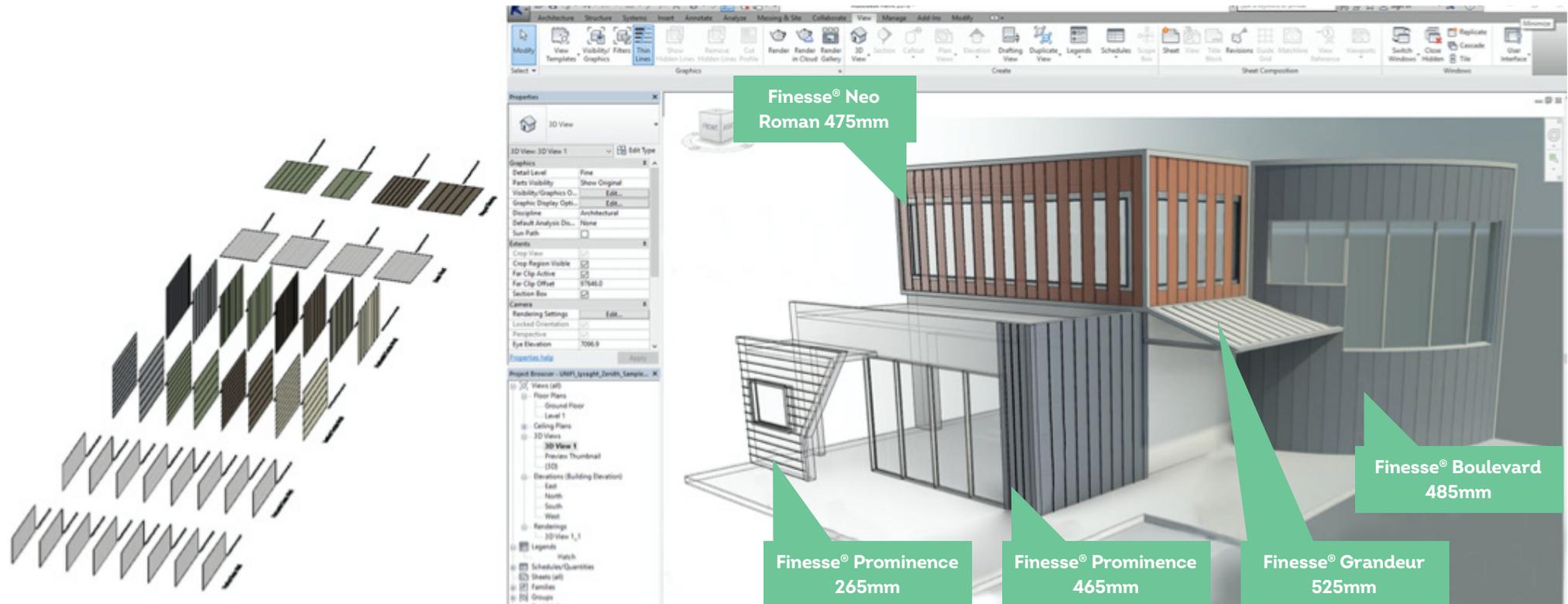
Introduction	3
1.0 Finesse® Revit Family Creation Considerations	4
2.0 Finesse® Revit Content Library Overview	5
2.1 Product Ranges	5
2.2 Basic Materials Library	6
2.3 Profile Families	7
2.4 Detail Items	7
2.5 Repeating Details	7
2.6 Sample Revit Projects	7
2.6.1 Preconfigured Standard Wall System Families	8
2.7.2 Preconfigured Curtain Walls & Sloped Glazing System Families	9
3.0 Finesse® Sample Revit Projects Insight	10
4.0 Finesse® Revit Content Selection & Key Parameters	11
4.1 Range Selection	11
4.2 Family Type Selection	11
4.3 Basic Wall and Roof System Family Insight	12
4.4 Curtain Wall and Sloped Glazing System Family Insight	13
5.0 Closing Statement	22

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.



1.0 Finesse® Revit Family Creation Considerations

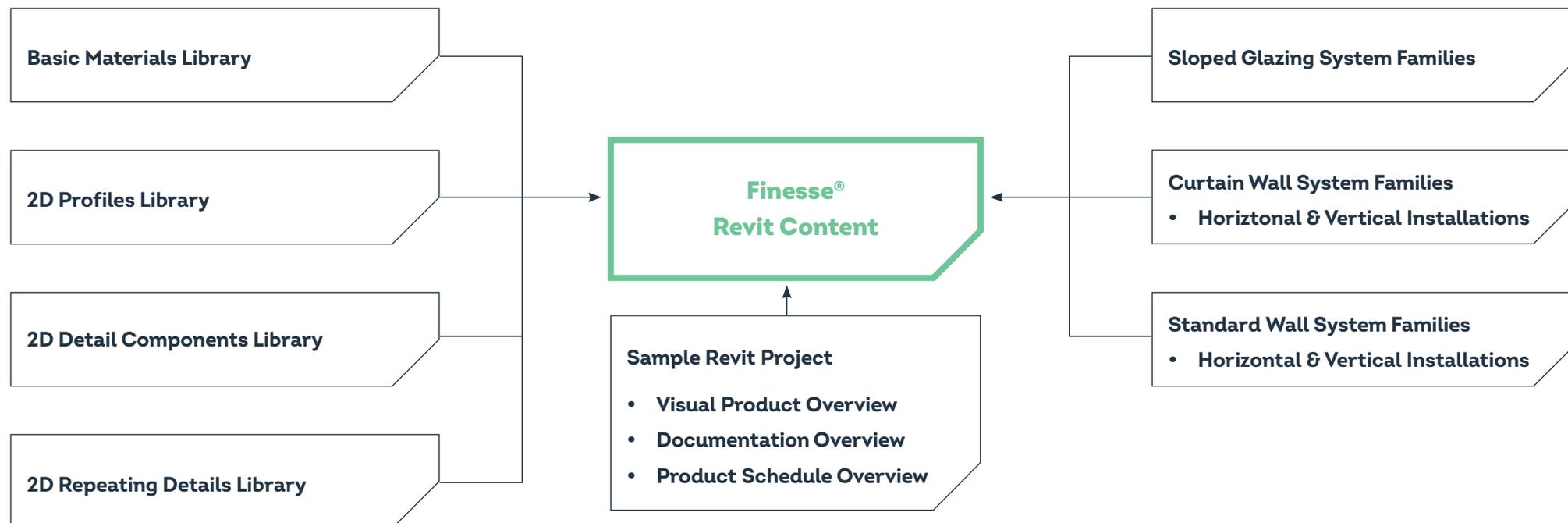
Finesse® Revit families have been created to a consistent, high standard with the objective of finding a balance between complexity of use, functionality, documentation output, file size and performance in a project environment. Primary content creation insights and considerations are listed below:

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:



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

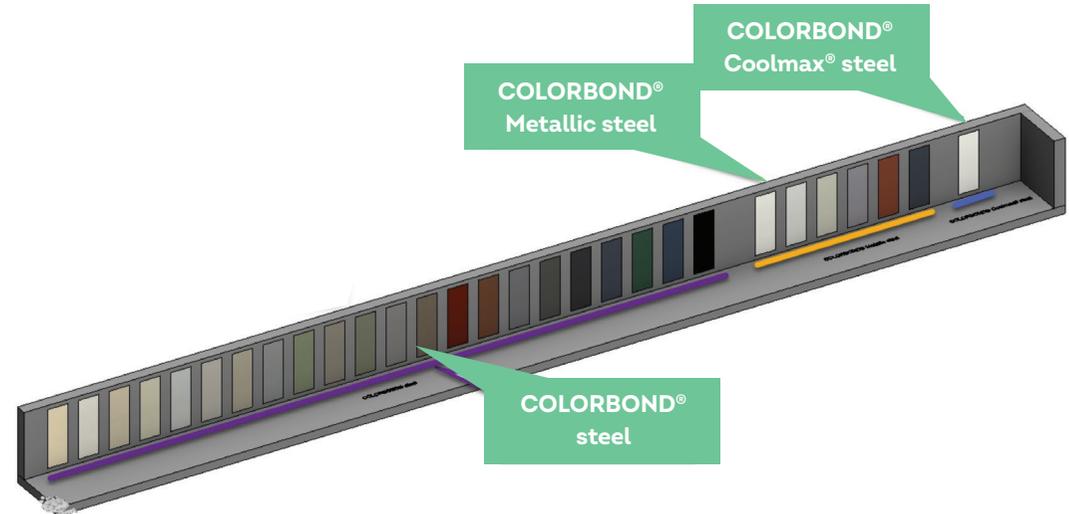
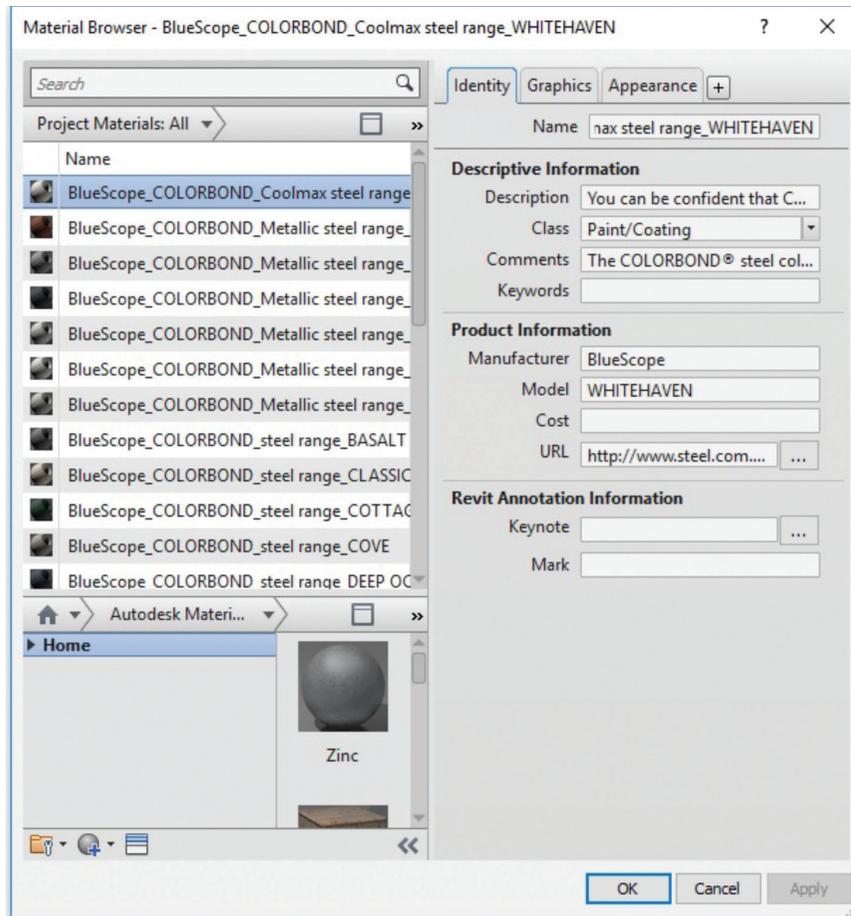
2.1 Product Ranges

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

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

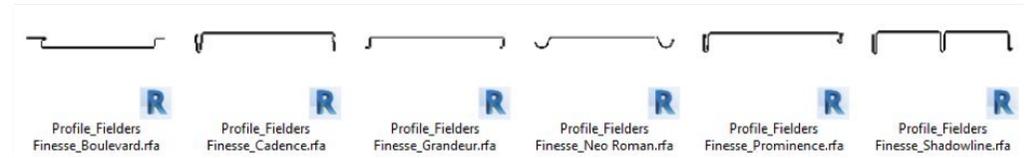
2.2 Basic Materials Library

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.

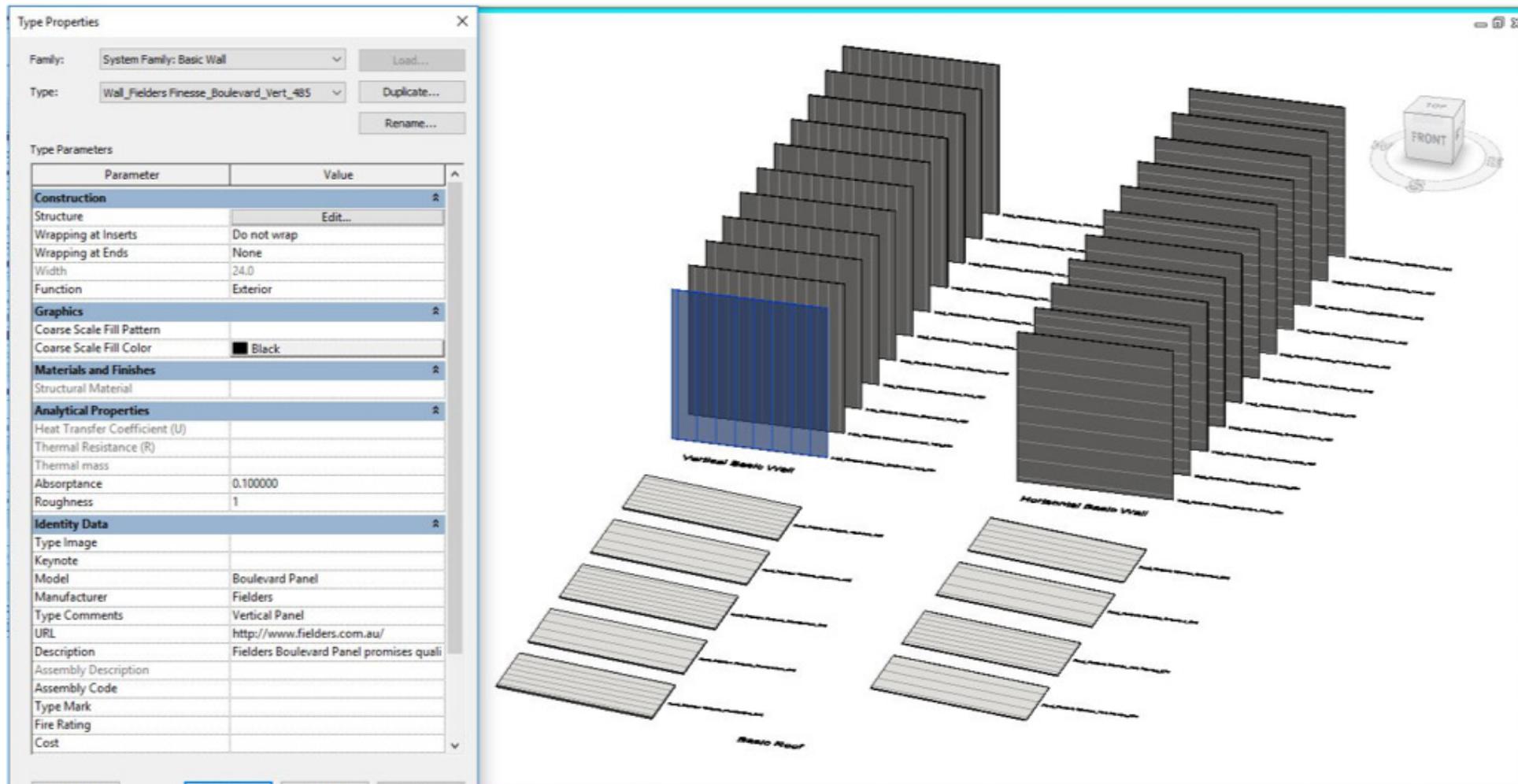


2.6 Sample Revit Projects

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.

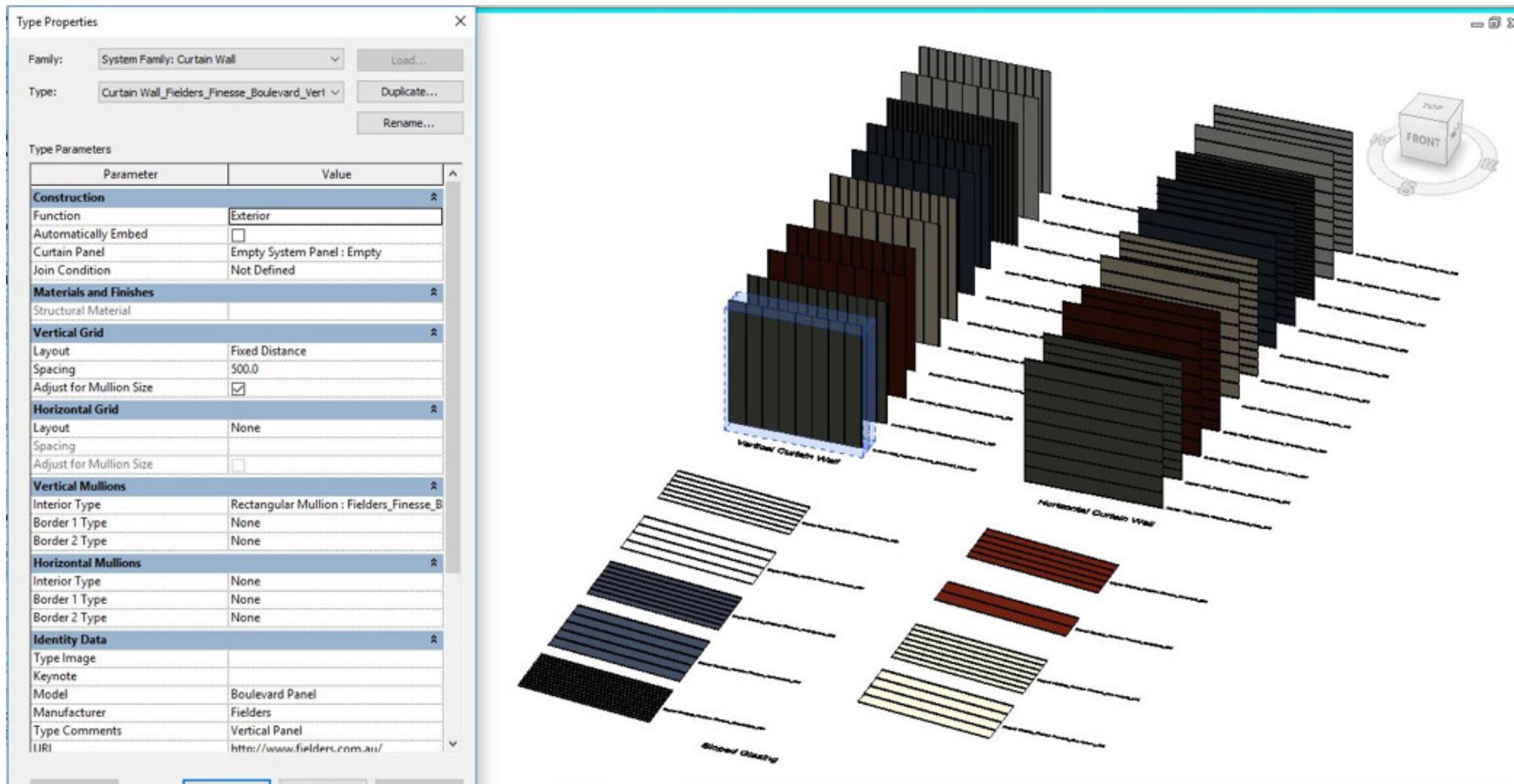
2.6.1 Preconfigured Standard Wall System Families

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.

The screenshot displays the Autodesk Revit 2016 interface with the 'UNIF_Fielders Finesse Sample Project 170827.rvt' open. The 3D Viewport shows four elevation views: Horizontal Basic Wall, Vertical Basic Wall, Horizontal Curtain Wall, and Vertical Curtain Wall. Two additional views show Basic Roofs and Sloped Glazing. The Project Browser on the left highlights the 'Schedules/Quantities' folder, which contains the Mullion Schedule, Roof Schedule, and Wall Schedule. The Properties panel on the left shows settings for the 3D View, including a scale of 1:20 and a detail level of Fine. The Schedule tables are displayed below the 3D views, showing columns for Family, Type, Description, Manufacturer, and Product Specific information.

Basic Walls

Curtain Walls

Basic Roofs

Sloped Glazing

<Mullion Schedule>

A	B	C	D	E
Family	Type	Description	Manufacturer	Manufacturer URL
Rectangular Mullion	Fielders Finesse Boulevard 285	Fielders Boulevard Panel promises quality at a reasonable price. As 1	Fielders	http://fielders.com.au/products/platinum-portfolio/finesse/boulevard/
Rectangular Mullion	Fielders Finesse Boulevard 285	Fielders Boulevard Panel promises quality at a reasonable price. As 1	Fielders	http://fielders.com.au/products/platinum-portfolio/finesse/boulevard/
Rectangular Mullion	Fielders Finesse Boulevard 285	Fielders Boulevard Panel promises quality at a reasonable price. As 1	Fielders	http://fielders.com.au/products/platinum-portfolio/finesse/boulevard/
Rectangular Mullion	Fielders Finesse Boulevard 285	Fielders Boulevard Panel promises quality at a reasonable price. As 1	Fielders	http://fielders.com.au/products/platinum-portfolio/finesse/boulevard/

<Roof Schedule>

A	B	C	D	E	F	G	H	I
Family	Type	Count	Description	Manufacturer U	Manufacturer	Modified/Issue	Model	URL
Basic Roof	Roof Fielders Finesse Grandeur 325	1	The Grandeur profile is a classic, versatil	http://fielders.com	Fielders	20170703.00	Grandeur Pan	http://www.fielders.com
Basic Roof	Roof Fielders Finesse Grandeur 525	1	The Grandeur profile is a classic, versatil	http://fielders.com	Fielders	20170703.00	Grandeur Pan	http://www.fielders.com
Basic Roof	Roof Fielders Finesse Neo Roman 275	1	Representing the best in heritage inspired	http://fielders.com	Fielders	20170703.00	Neo Roman P	http://www.fielders.com
Basic Roof	Roof Fielders Finesse Neo Roman 475	1	Representing the best in heritage inspired	http://fielders.com	Fielders	20170703.00	Neo Roman P	http://www.fielders.com
Sloped Glazing	Sloped Glazing Fielders Finesse Grande	1	The Grandeur profile is a classic, versatil	http://fielders.com	Fielders	20170703.00	Grandeur Pan	http://www.fielders.com

<Wall Schedule>

A	B	C	D	E
Family	Type	Count	Description	Manufacturer
Curtain Wall	Curtain Wall Fielders Finesse Boulevard Horz 285	1	Fielders Boulevard Panel promises quality at a reasonable p	http://fielders.com.au/products/platinum-portfolio/finesse/boulevard/

Hatch Pattern Legend

4.0 Finesse® Revit Content Selection & Key Parameters

At all times it is recommended users familiarise 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

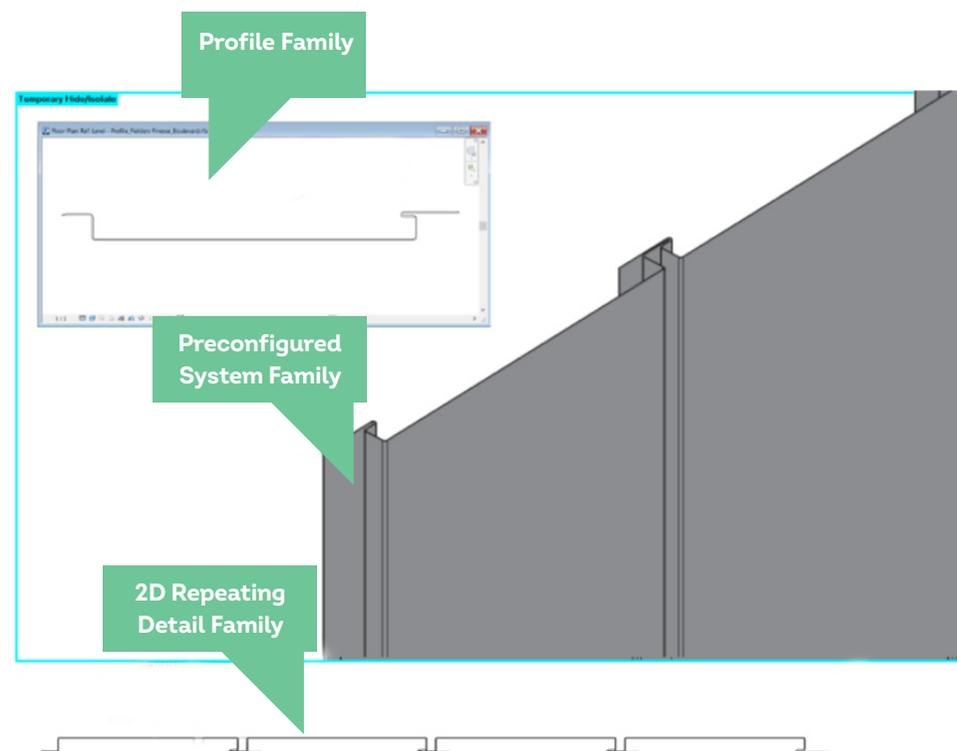
What product do I required?

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

4.2 Family Type Selection

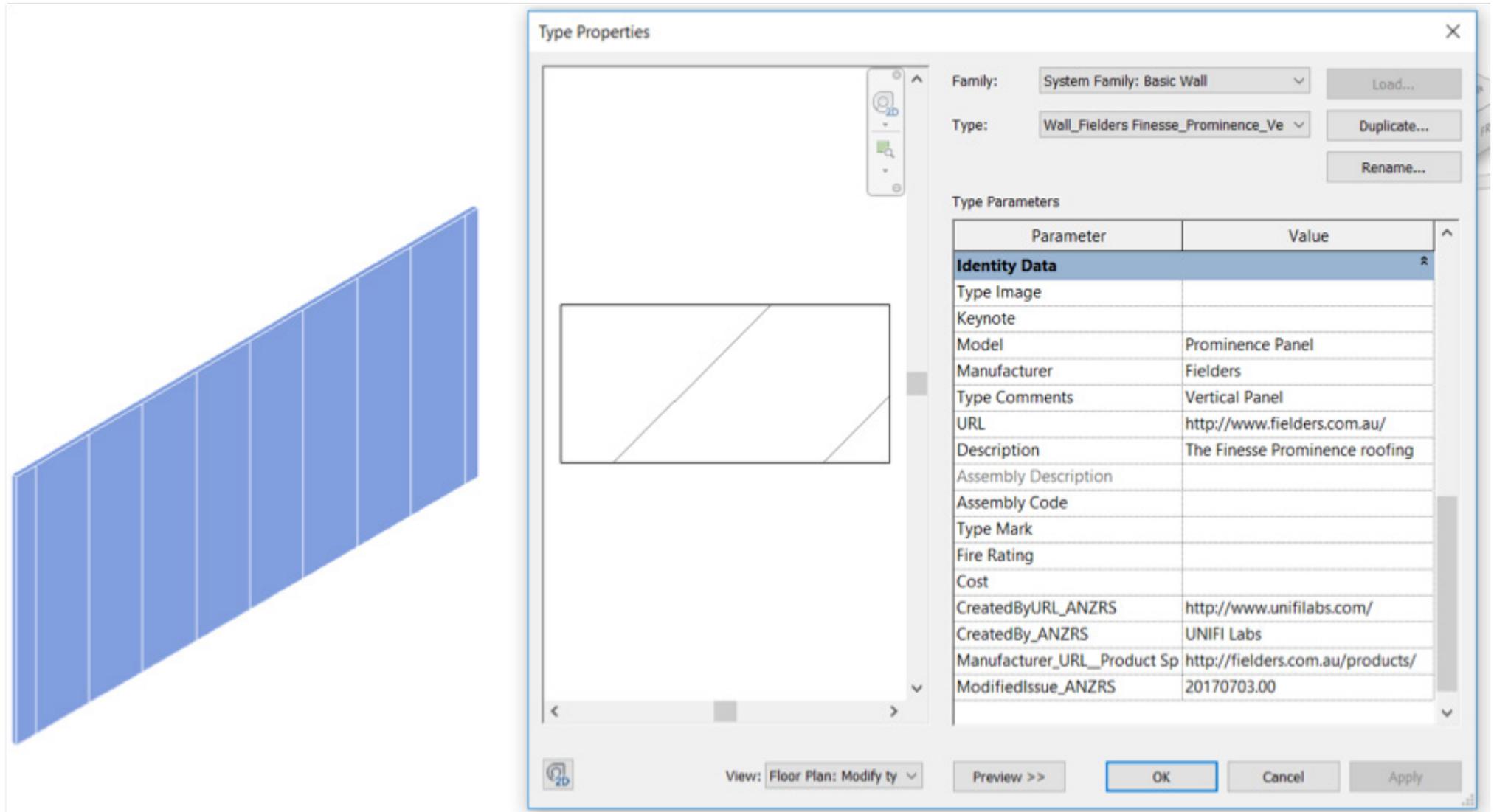
Depending on what is required to best document your project, the following options are available:

- A preconfigured System Family of the product stored in the sample Revit project
- An individual Profile Family supplied to develop your own System Families
- A 2D Repeating Detail Family can also be utilized



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.



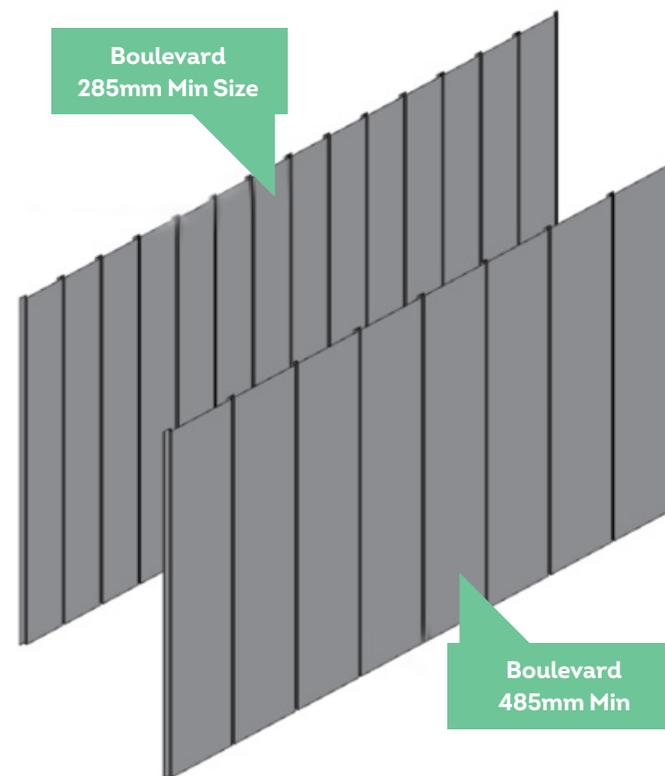
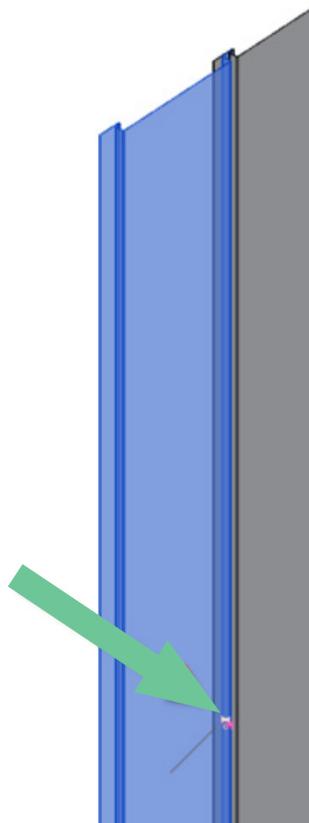
4.4 Curtain Wall & Sloped Glazing System Family Insight

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



- 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.

The screenshot illustrates the steps to create a new Mullion type in Revit. The Properties panel on the left shows the selected Mullion type, 'Rectangular Mullion', with the current type name 'Fielders_Finesse_Boulevard_285'. A green arrow labeled '1' points to the 'Edit Type' button. The 'Type Properties' dialog box is open, showing the 'Type' field with the current name 'Fielders_Finesse_Boulevard_285'. A green arrow labeled '2' points to the 'Duplicate...' button. The 'Name' dialog box is also open, showing the new name 'Fielders_Finesse_Boulevard_350' entered in the 'Name' field. A green arrow labeled '3' points to the 'OK' button.

Properties

Rectangular Mullion
Fielders_Finesse_Boulevard_285

Curtain Wall Mullion **1** Edit Type

Dimensions

Length 3000.0

Identity Data

Image

Comments

Mark

Phasing

Phase Created New Construction

Phase Demolished None

Properties help Apply

Project Browser - UNIFI_Fielders Finesse...

Views (all)

- Floor Plans
 - Ground Floor
- Ceiling Plans
- 3D Views
 - Preview Thumbnail (3D)
- Elevations (Building Elevation)
- Legends
 - Fielders Hatch
- Schedules/Quantities

Type Properties

Family: Rectangular Mullion Load...

Type: Fielders_Finesse_Boulevard_285 **2** Duplicate... Rename...

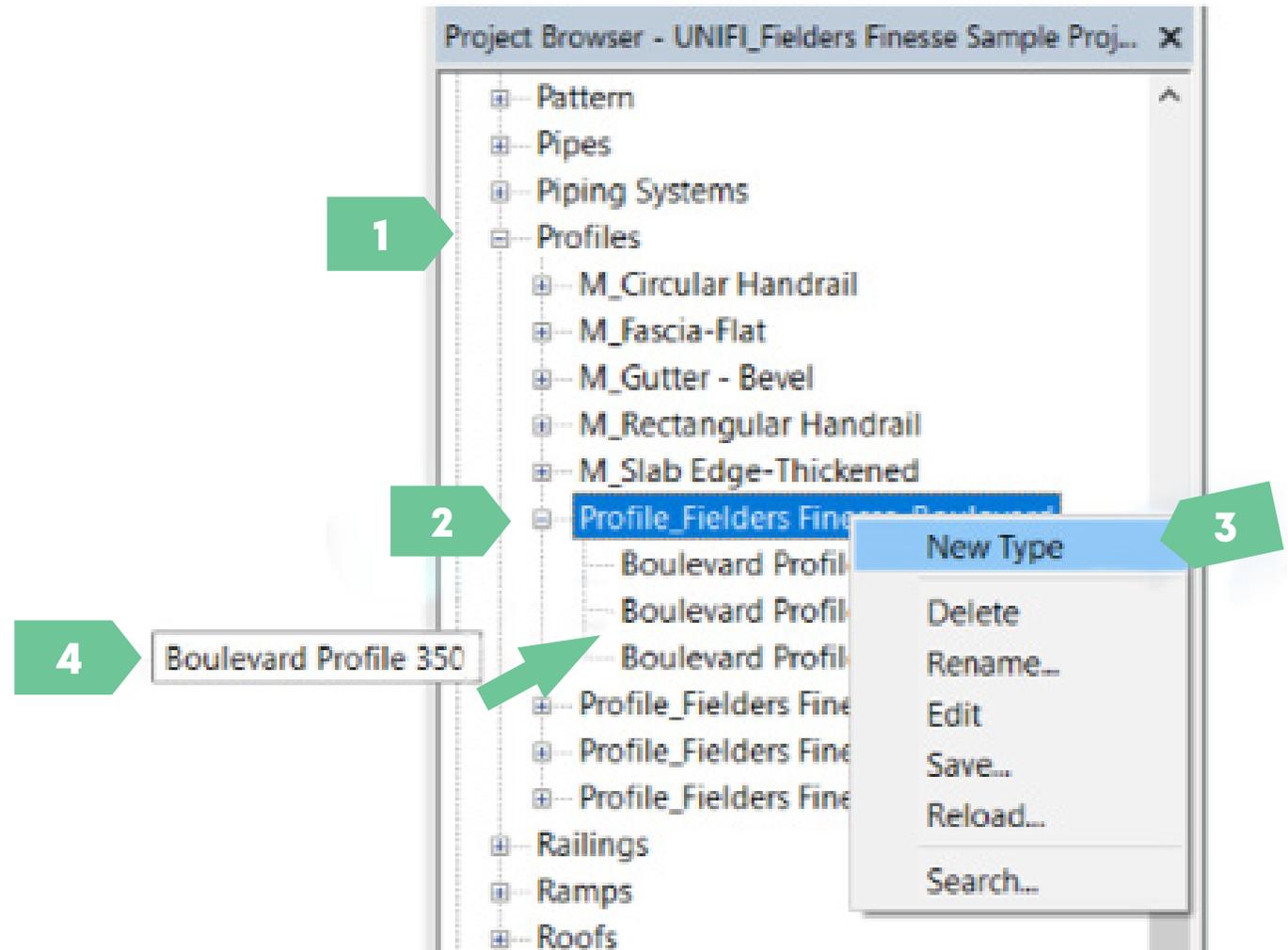
Type Parameters

Parameter	Value
Constraints	
Angle	0.000°
Offset	0.0
Construction	
Profile	Profile_Fielders Finesse_Boulevard
Position	Perpendicular to Face
Corner Mullion	<input type="checkbox"/>
Thickness	1.0
Materials and Finishes	
Material	BlueScope_COLORBOND_Metallic
Dimensions	
Width on side 2	-130.7
Width on side 1	179.5
Identity Data	
Keynote	
Model	Boulevard Panel
Manufacturer	Fielders
Type Comments	
Type Image	

Name

Name: Fielders_Finesse_Boulevard_350 **3** OK Cancel

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



- 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).

Properties

Profile_Fielders Finesse_Boulevard
Boulevard Profile 350

Profiles (1) Edit

Dimensions

Panel Size	285.0
Express Joint	15.0
Manufacturer_Overall ...	300.0
Manufacturer_Overall ...	24.0

Identity Data

Manufacturer	Fielders
Model	Boulevard Profile
URL	http://www.fielders.c...
Type Comments	
Description	Fielders Boulevard P...

Type Properties

Family: Profile_Fielders Finesse_Boulevard Load...

Type: Boulevard Profile 350 Duplicate... Rename...

Type Parameters

Parameter	Value
Dimensions	
Panel Size	350.0
Express Joint	15.0
Manufacturer_Overall Width	365.0
Manufacturer_Overall Height	24.0
Identity Data	
Manufacturer	Fielders
Model	Boulevard Profile
URL	http://www.fielders.com.au/
Type Comments	
Description	Fielders Boulevard Panel promi...
Manufacturer_URL_Product Speci...	http://fielders.com.au/products/
CreatedBy_ANZRS	UNIFI Labs
CreatedByURL_ANZRS	http://www.unifilabs.com/
ModifiedIssue_ANZRS	20170703.00
Type Image	
Keynote	
Assembly Code	
Cost	
Assembly Description	

<< Preview OK Cancel Apply



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

Type Properties

Family: Rectangular Mullion Load...

Type: Fielders_Finesse_Boulevard_350 Duplicate... Rename...

Type Parameters

Parameter	Value
Constraints	
Angle	0.000°
Offset	0.0
Construction	
Profile	Profile_Fielders Finesse_Boulevard : Boulevard Profile 350
Position	Default
Corner Mullion	Profile_Fielders Finesse_Boulevard : Boulevard Profile 285
Thickness	Profile_Fielders Finesse_Boulevard : Boulevard Profile 350
Materials and Finishes	
Material	Profile_Fielders Finesse_Grandeur : Grandeur Profile 325 BlueScope_COLORBOND_Metallic

1

2

3

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

The screenshot illustrates the steps to create a new Curtain Wall type in Revit. The interface is divided into several panels:

- Properties Panel:** Shows the selected element as a Curtain Wall. The 'Walls (1)' section has an 'Edit Type' button (2).
- Project Browser:** Shows the hierarchy of profiles, including 'Profile_Fielders Finesse_Boulevard' with sub-items 'Boulevard Profile 285', 'Boulevard Profile 350', and 'Boulevard Profile 485'.
- Type Properties Dialog:** Shows the 'Type Properties' for the selected curtain wall. The 'Type' field is highlighted (3). The 'Type Parameters' table is shown below:

Parameter	Value
Construction	
Function	Exterior
Automatically Embed	<input type="checkbox"/>
Curtain Panel	Empty System Panel : Empty
Join Condition	Not Defined
Materials and Finishes	
Structural Material	
Vertical Grid	
Layout	Fixed Distance
Spacing	300.0
Adjust for Mullion Size	<input checked="" type="checkbox"/>
Horizontal Grid	
Layout	None
Spacing	
Adjust for Mullion Size	<input type="checkbox"/>
Vertical Mullions	
Interior Type	Rectangular Mullion : Fielders_Fine
Border 1 Type	None
Border 2 Type	None

The 'Name' dialog is open, showing the name 'ders_Finesse_Boulevard_Vert_350' (4) and the 'OK' button (5).

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

Type Properties

Family: System Family: Curtain Wall Load...

Type: Curtain Wall_Fielders_Finesse_Boulevard_Ve Duplicate... Rename...

Type Parameters

Parameter	Value
Construction	
Function	Exterior
Automatically Embed	<input type="checkbox"/>
Curtain Panel	Empty System Panel : Empty
Join Condition	Not Defined
Materials and Finishes	
Structural Material	
Vertical Grid	
Layout	Fixed Distance
Spacing	365.0
Adjust for Mullion Size	<input checked="" type="checkbox"/>
Horizontal Grid	
Layout	None
Spacing	
Adjust for Mullion Size	<input type="checkbox"/>
Vertical Mullions	
Interior Type	in : Fielders_Finesse_Boulevard_350
Border 1 Type	None
Border 2 Type	Rectangular Mullion : Fielders_Finesse_Boulevard_285
	Rectangular Mullion : Fielders_Finesse_Boulevard_350
	Rectangular Mullion : Fielders_Finesse_Boulevard_485
	Rectangular Mullion : Fielders_Finesse_Grandeur_325

<< Preview

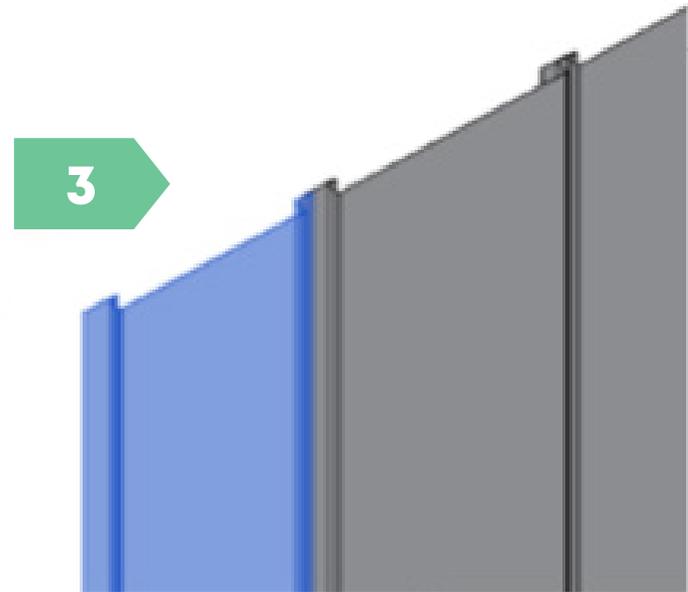
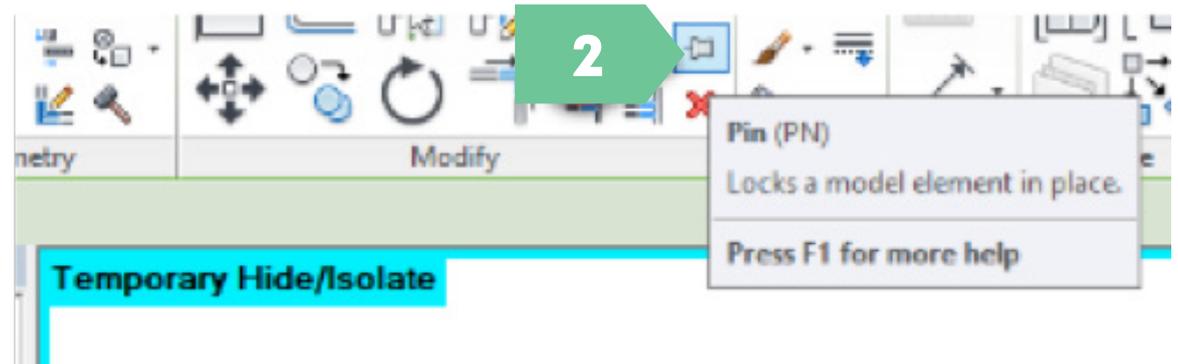
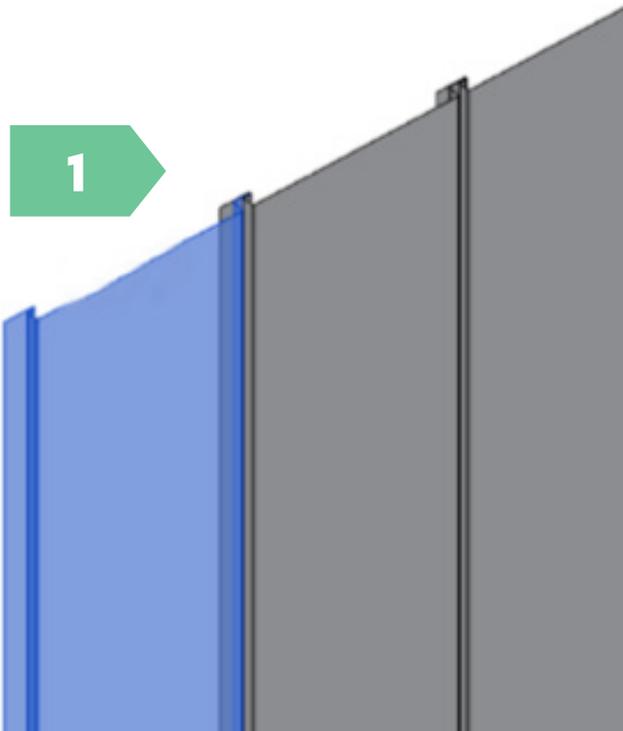
3

Keep in mind the +15mm for the Express Joint

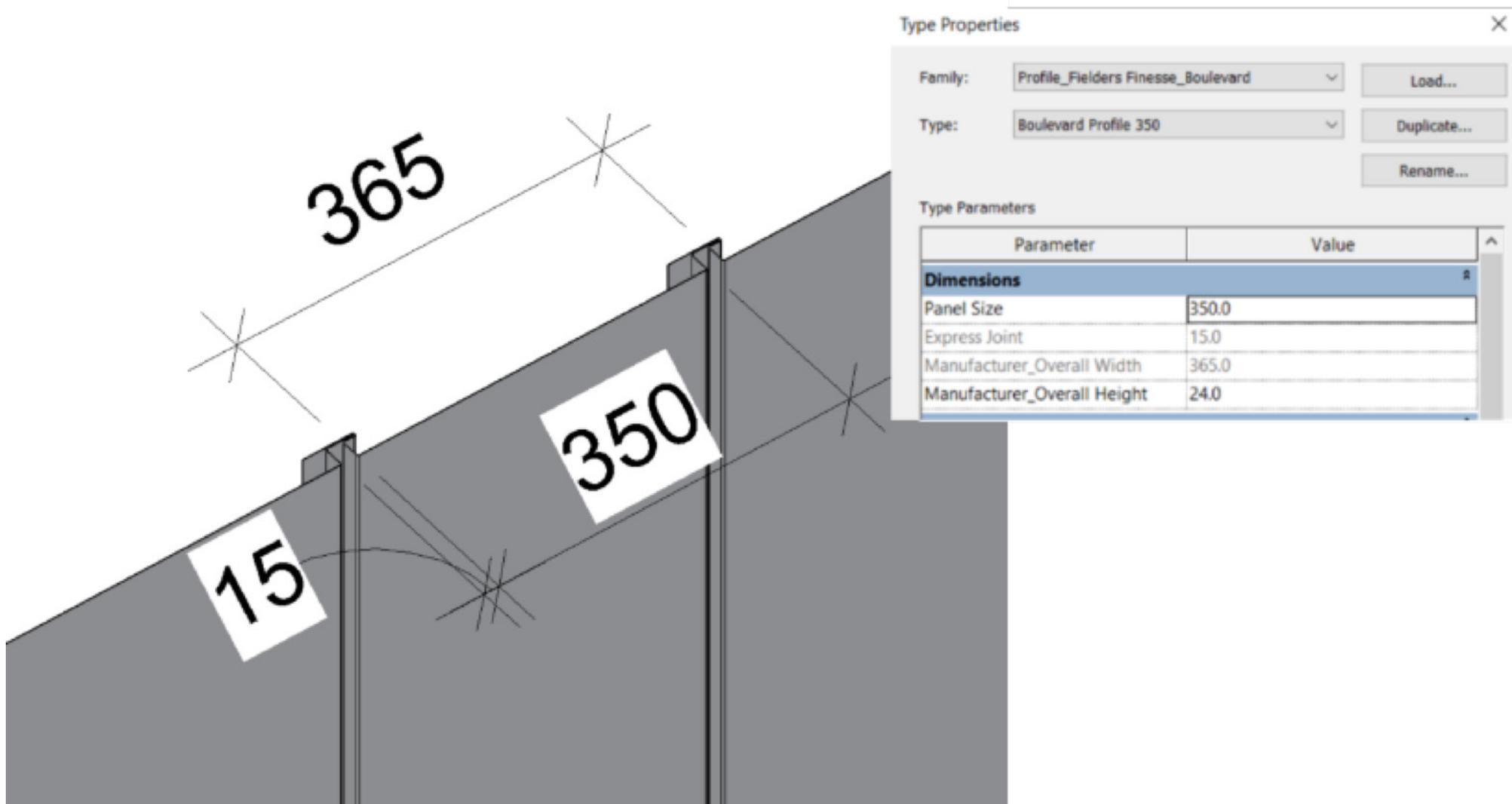
1

2

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:



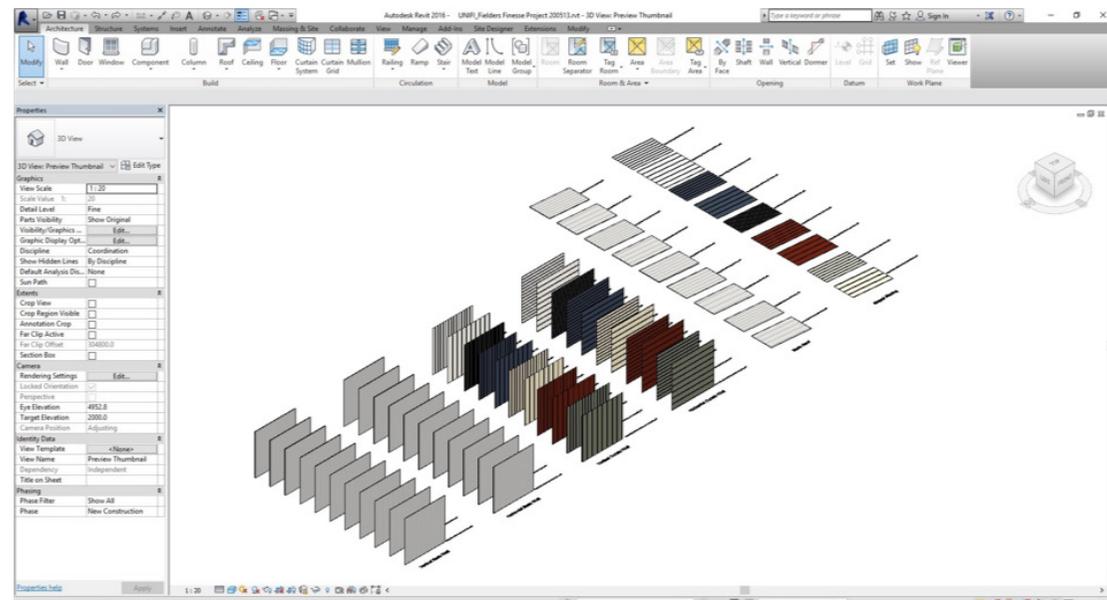
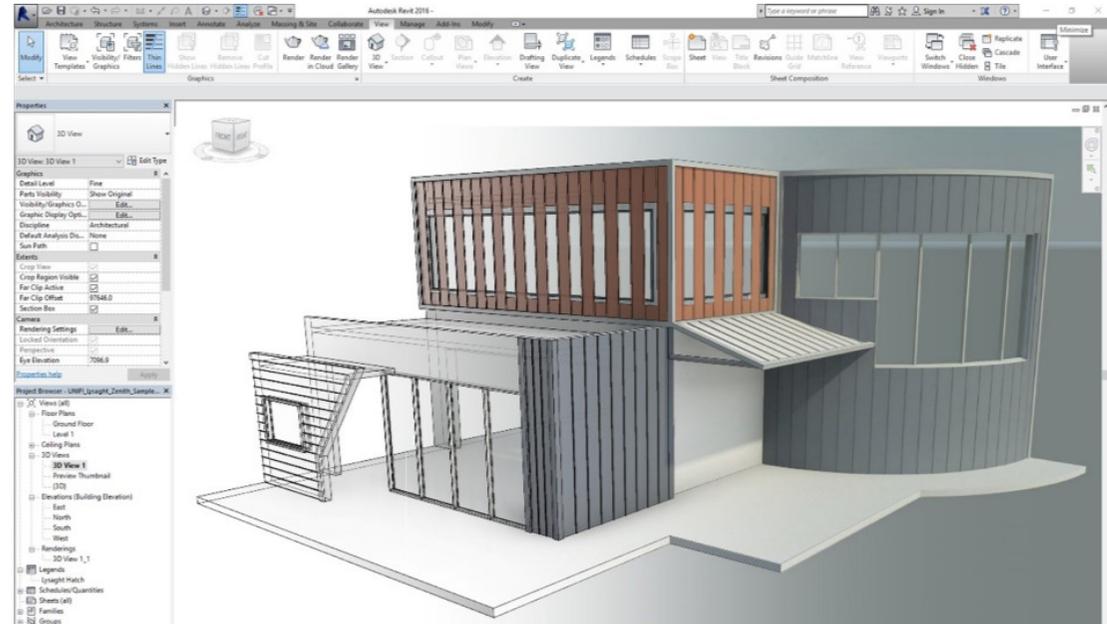
9 You have now updated the Boulevard™ product Curtain Wall to a 350mm Panel Size at the default 15mm Joint Size resulting in a cover width of 365mm.



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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