

FIELDERS ARAMAX® FREESPAN REVIT CONTENT

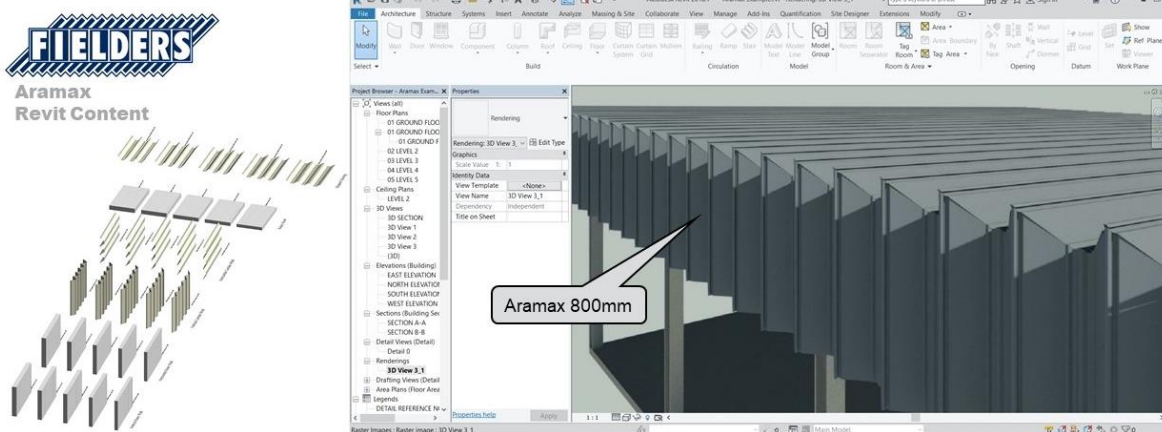
INTRODUCTION & USER GUIDE

NOVEMBER 2018

This document provides a detailed insight into the Revit content library supplied by [Fielders](#) for Fielders ARAMAX® FreeSpan. 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 Fielders ARAMAX® FreeSpan structural roofing & walling.

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 Fielders ARAMAX® FreeSpan Revit families should require minimal, firm-specific localisation /standardisation to become the 'go-to' Revit families when structural roofing and walling 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.



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1.0 ARAMAX® FreeSpan Revit Family Creation Considerations

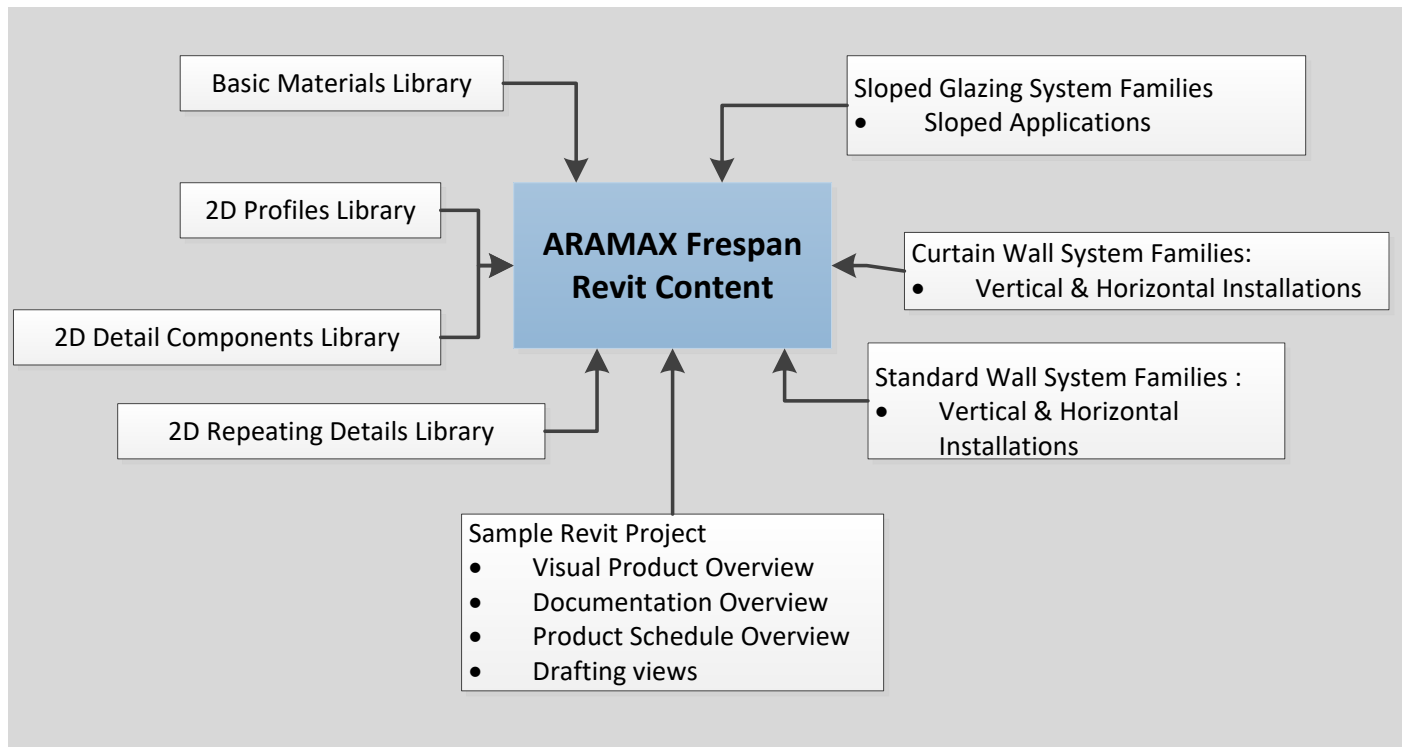
ARAMAX® FreeSpan Revit families have been created to a consistent, high standard with the objective of finding a balance between complexity of use, functionality, documentation output, file size and performance in a project environment. Primary content creation insights and considerations are listed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

1. Families supplied in Revit 2016 format.
2. Native Revit geometry used throughout, included 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 ARAMAX®™ FreeSpan attributes to be scheduled in the Revit project environment.
4. ANZRS-based subcategories and additional ARAMAX® FreeSpan-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 content of the family's overall capabilities, minimising the burden of ARAMAX® FreeSpan families in Revit projects.



2.0 ARAMAX® FreeSpan Revit Content Library Overview

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



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

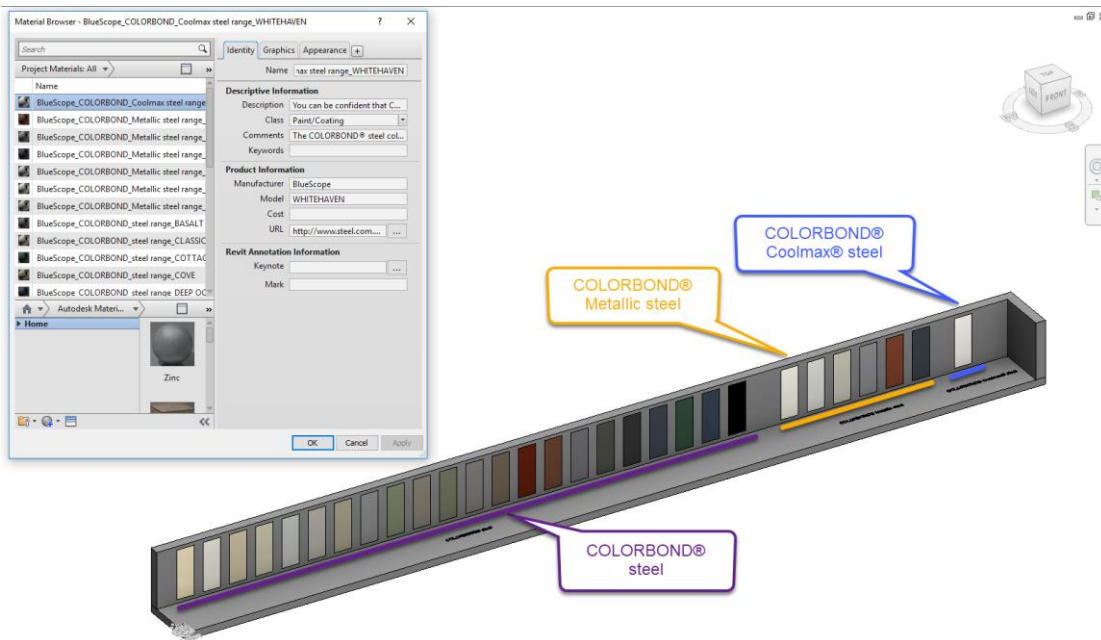
2.1 Product Ranges

ARAMAX® FreeSpan profiles have been represented in the following cover widths:

- 700mm
- 750mm
- 800mm
- 850mm
- 900mm

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

Five Profile families represent the five cover widths. These Profiles for 'building blocks' behind the Mullions in the System Curtain Wall and Sloped Grazing families. These Profile families can also be used in other System Families for create custom ARAMAX® FreeSpan designs.



2.4 Detail Items

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



2.5 Repeating Details

Five Repeating Details have been included to further assist in 2D Revit project documentation.



RepeatingDetail_Fielders_Aramax.rfa

2.6 Sample Revit Projects

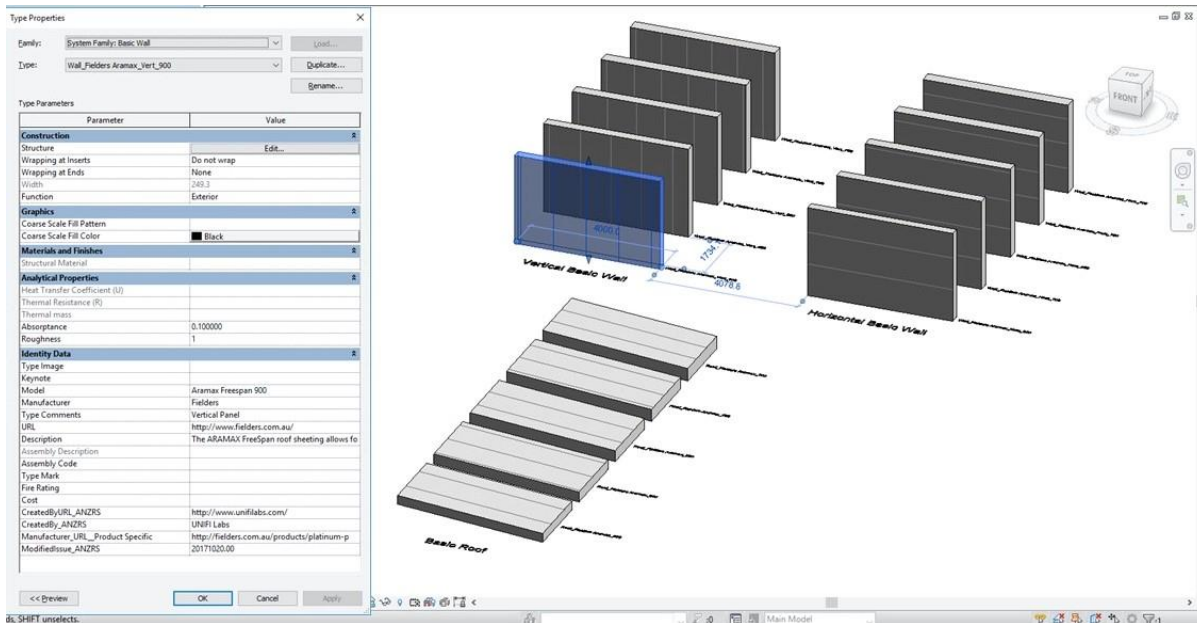
One Revit project has been created containing the 5x profile sizes. In addition to all the items listed above, the following items are also documented and available in the sample Revit project file. All these Revit assets can be copied & pasted into another Revit project.



UNIFI_Fielders
Aramax Project
171109.rvt

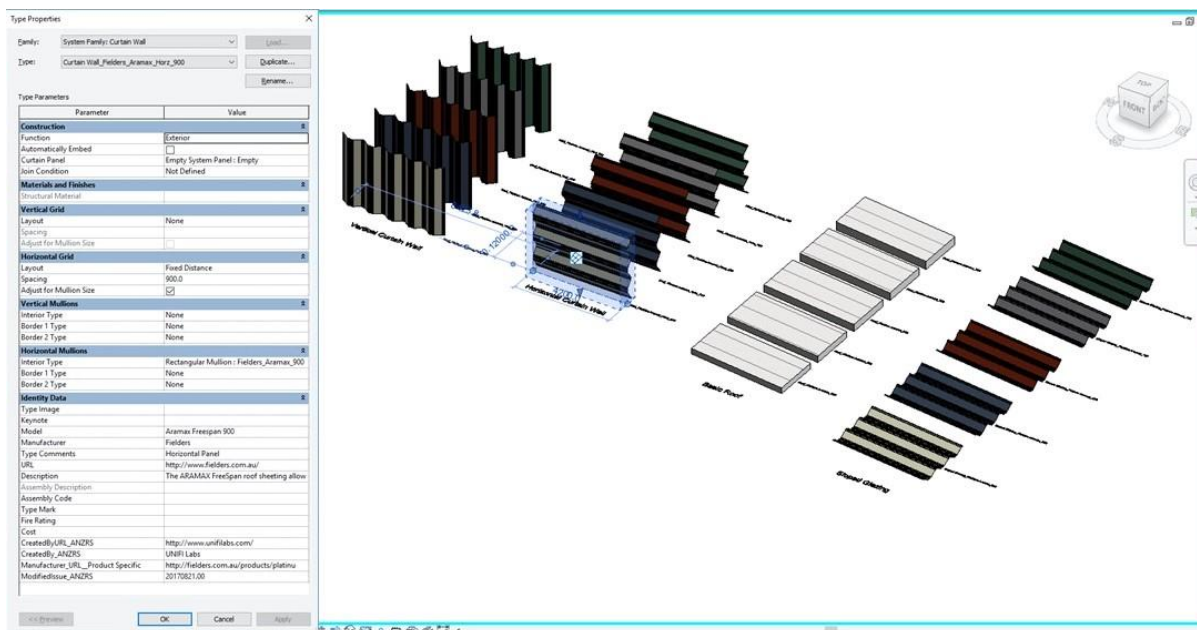
2.6.1 Preconfigured Standard Wall System Families

Five standard Wall System Families and 5x Standard Roof System Families allow users to very basically document ARAMAX® FreeSpan 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 and Roofs are a good solution for large installations where the ARAMAX® FreeSpan Curtain Wall Systems Families can be too 'processor intensive for the specific project application.



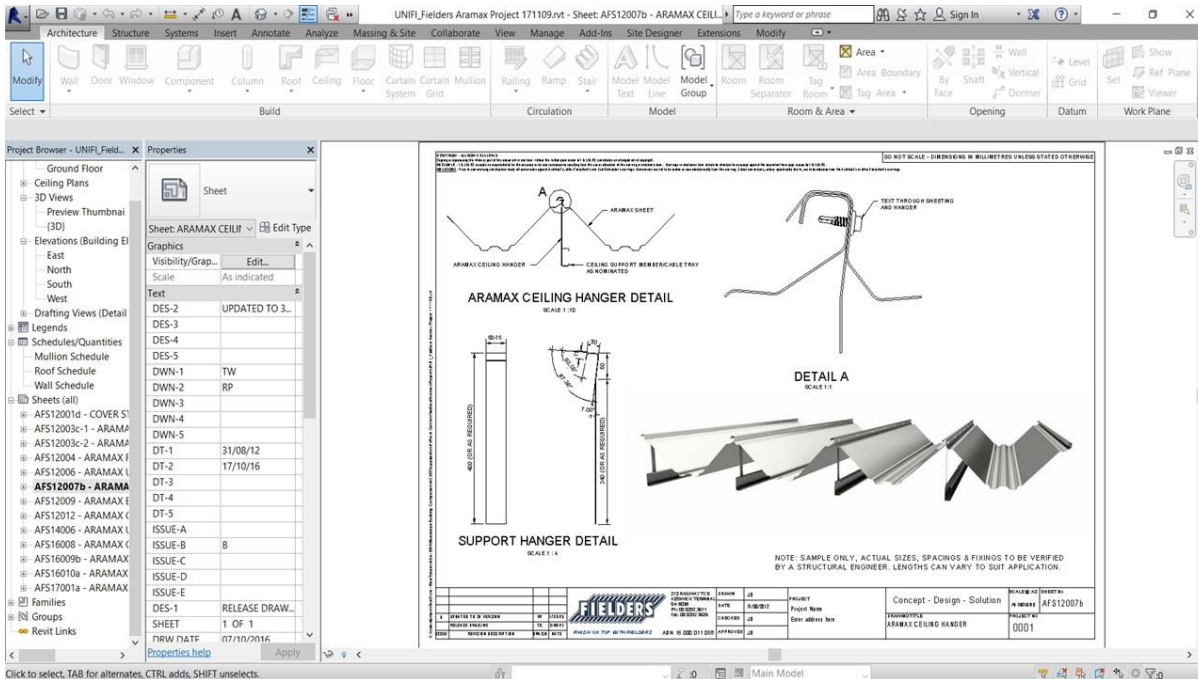
2.6.2 Preconfigured Curtain Wall & Sloped Glazing System Families

5x Standard Curtain Wall System Families and 5x Sloped Glazing System Families both work in a similar fashion to each other. They allow users to apply the 4x different Cladding systems to vertical and horizontal (where applicable) surfaces.

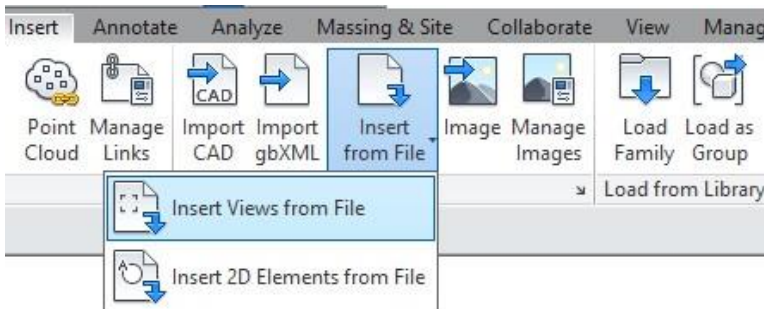


2.6.3 Revit Drafting Views

Revit drafting views have been included and set up on Title blocks in the ARAMAX® FreeSpan Revit Project file. These standard ARAMAX® FreeSpan details have been completed in native Revit linework and include 3D images to assist the user when documenting design intent in their project.



To loan the relevant drafting views/sheets into your project, change the title block to your own and it is ready for use.





Select drafting views, schedules, or reports to be added to the current project.

Views:

Show all views and sheets

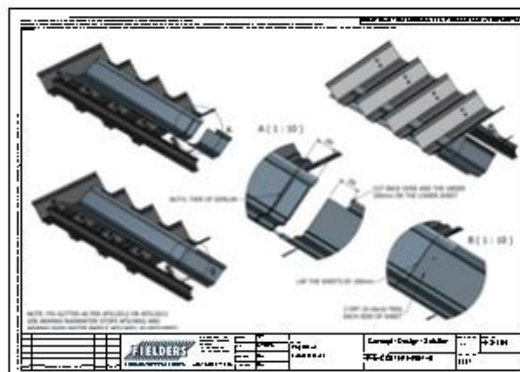
- ☐ Drafting View: 12012_SECTION
- ☐ Drafting View: 14006_BOLTED ASSEMBLY
- ☐ Drafting View: 14006_EXPLODED BOLTED A
- ☐ Drafting View: 14006_EXPLODED BOLTED A
- ☐ Drafting View: 16008_ARAMAX GUTTER LA
- ☐ Drafting View: 16009_ARAMAX LIGHT HAN
- ☐ Drafting View: 16009_DETAIL A
- ☐ Drafting View: 16009_LIGHT HANGER STRA
- ☐ Drafting View: 16010_TRAY SUPPORT DET,
- ☐ Drafting View: 16010_TRAY SUPPORT HAN
- ☐ Drafting View: 17001_ARAMAX CEILING HA
- ☐ Drafting View: 17001_DETAIL A
- ☐ Drafting View: 17001_SUPPORT HANGER D
- ☐ Schedule: Mullion Schedule
- ☐ Schedule: Roof Schedule
- ☐ Schedule: Wall Schedule
- ☒ Sheet: AFS12004 - ARAMAX FIXING DETAI
- ☒ Sheet: AFS16008 - ARAMAX GUTTER LAP

Check All

Check None

☒ Preview selection

Preview:



OK

Cancel

3.0 ARAMAX® FreeSpan Sample Revit Projects Insight

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

The screenshot displays the Revit software interface for the ARAMAX® FreeSpan sample project. The ribbon at the top shows various toolsets including Architecture, Structure, Systems, Insert, Annotate, Analyze, Massing & Site, Collaborate, View, Manage, Add-Ins, Site Designer, Extensions, and Modify. The Project Browser on the left lists views such as Floor Plans, Ground Floor, Ceiling Plans, 3D Views, and Elevations. The 3D view shows a building model with red callouts highlighting 'Basic Walls', 'Curtain Walls', 'Basic Roofs', and 'Sloped Glazing'. Below the 3D view, there are three schedules: '<Mullion Schedule>', '<Roof Schedule>', and '<Wall Schedule>'. To the right of the schedules is a 'Fielders Finesse Hatch Legend'.

A	B	C	D	E	F
Family	Type	Description	Manufacturer URL	Product Specific	Model
Rectangular Mullion	Fielders Aramax 700	The ARAMAX FreeSpan roof sheeting allows for huge r / Fielders	http://fielders.com.au/products/platinum-portfolio/aramax-freespan/	Aramax FreeSpan 700	htl
Rectangular Mullion	Fielders Aramax 750	The ARAMAX FreeSpan roof sheeting allows for huge r / Fielders	http://fielders.com.au/products/platinum-portfolio/aramax-freespan/	Aramax FreeSpan 750	htl
Rectangular Mullion	Fielders Aramax 800	The ARAMAX FreeSpan roof sheeting allows for huge r / Fielders	http://fielders.com.au/products/platinum-portfolio/aramax-freespan/	Aramax FreeSpan 800	htl
Rectangular Mullion	Fielders Aramax 850	The ARAMAX FreeSpan roof sheeting allows for huge r / Fielders	http://fielders.com.au/products/platinum-portfolio/aramax-freespan/	Aramax FreeSpan 850	htl

A	B	C	D	E	F	G
Type	Count	Description	Manufacturer URL	Product Specific	Manufacturer	Model
Roof Fielders Aramax 700	1	The ARAMAX FreeSpan roof sheeting allows for huge roofing spans of up to 20 metres	http://fielders.com.au/products/platinum-portfolio/aramax-freespan/	Fielders	20170201 00	Aramax FreeSpan 700
Roof Fielders Aramax 750	1	The ARAMAX FreeSpan roof sheeting allows for huge roofing spans of up to 20 metres	http://fielders.com.au/products/platinum-portfolio/aramax-freespan/	Fielders	20170201 00	Aramax FreeSpan 750
Roof Fielders Aramax 800	1	The ARAMAX FreeSpan roof sheeting allows for huge roofing spans of up to 20 metres	http://fielders.com.au/products/platinum-portfolio/aramax-freespan/	Fielders	20170201 00	Aramax FreeSpan 800
Roof Fielders Aramax 850	1	The ARAMAX FreeSpan roof sheeting allows for huge roofing spans of up to 20 metres	http://fielders.com.au/products/platinum-portfolio/aramax-freespan/	Fielders	20170201 00	Aramax FreeSpan 850

A	B	C	D	E	F
Type	Count	Description	Manufacturer URL	Product Specific	Manufacturer
Curtain Wall Fielders Aramax Horiz 700	1	The ARAMAX FreeSpan roof sheeting allows for huge roofing spans of up to 20 metres	http://fielders.com.au/products/platinum-portfolio/aramax-freespan/	Fielders	20170201 00
Curtain Wall Fielders Aramax Horiz 750	1	The ARAMAX FreeSpan roof sheeting allows for huge roofing spans of up to 20 metres	http://fielders.com.au/products/platinum-portfolio/aramax-freespan/	Fielders	20170201 00
Curtain Wall Fielders Aramax Horiz 800	1	The ARAMAX FreeSpan roof sheeting allows for huge roofing spans of up to 20 metres	http://fielders.com.au/products/platinum-portfolio/aramax-freespan/	Fielders	20170201 00
Curtain Wall Fielders Aramax Horiz 850	1	The ARAMAX FreeSpan roof sheeting allows for huge roofing spans of up to 20 metres	http://fielders.com.au/products/platinum-portfolio/aramax-freespan/	Fielders	20170201 00
Curtain Wall Fielders Aramax Vert 700	1	The ARAMAX FreeSpan roof sheeting allows for huge roofing spans of up to 20 metres	http://fielders.com.au/products/platinum-portfolio/aramax-freespan/	Fielders	20170201 00

4.0 ARAMAX® FreeSpan Revit Content Selection & Key Parameters

At all times it is recommended users familiarise themselves with the most up-to-date ARAMAX® FreeSpan product literature at <https://specifying.fielders.com.au> or speak to a Fielders representative.

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

4.1 Range Selection

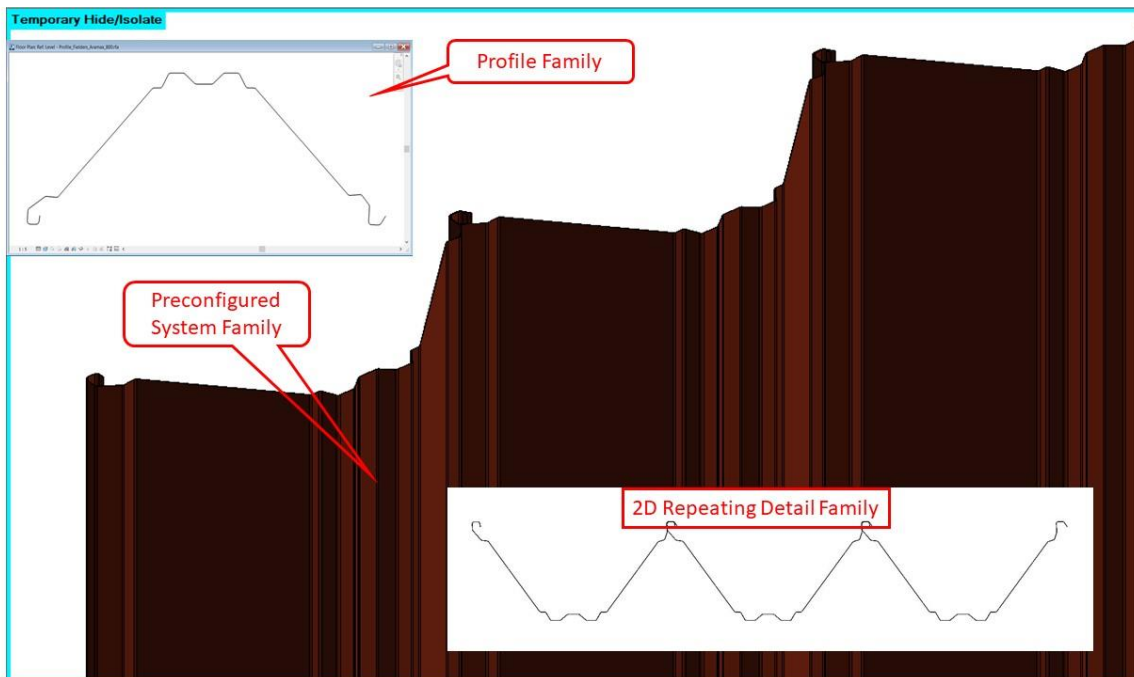
What product do I require?

- ARAMAX® FreeSpan 700mm cover width
- ARAMAX® FreeSpan 750mm cover width
- ARAMAX® FreeSpan 800mm cover width
- ARAMAX® FreeSpan 850mm cover width
- ARAMAX® FreeSpan 900mm cover width

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 utilised.



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 ARAMAX® FreeSpan 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.

