

Version 2: AUG 2023

CONTENTS

1.0	FAMILY CREATION CONSIDERATIONS	02
2.0	REVIT CONTENT LIBRARY OVERVIEW	03
2.1	Loadable Panel Families	03
2.2	Array Ceiling Baffles	03
2.3	Fuji Ceiling Tiles	04
2.4	System Families (curtain walls)	04
2.5	Loadable Material Families	05
2.6	Virtual Showroom/QA Project File	10
3.0	TECHNICAL DETAILS	11
3.1	Type Catalog Families	11
3.2	Materials Library	12
3.3	Loadable Acoustic Panels	13
3.4	Array Ceiling Baffles	14
3.5	Fuji Ceiling Tiles	20
4.0	CLOSING STATEMENT	24

This document provides an overview of the Revit content library supplied by Woven Image. The parametric content is all created natively in Revit, allowing users the ability to design and document in a wide range of acoustic solutions.

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 Woven Image Revit families should require minimal, firm-specific localisation/standardisation to become the 'go-to' Revit families when acoustic solutions are required in a Revit project.

Should you require Woven Image options outside the range of products detailed in this Woven Image Revit content library, please contact Woven Image about future ranges to be developed in Revit and one-off requests.



1.0 FAMILY CREATION CONSIDERATIONS

Woven Image 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 Woven Image Revit content creation insights and considerations are listed below:

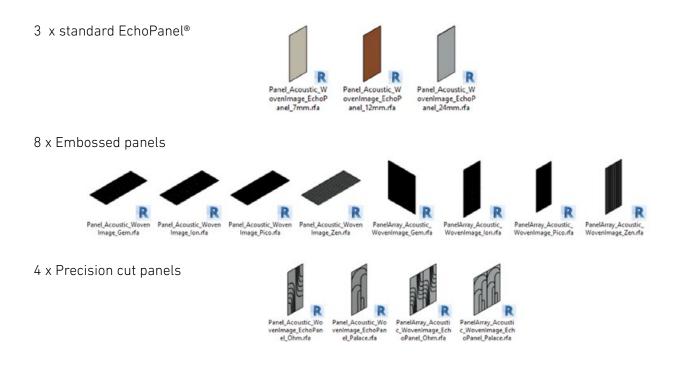
- Families supplied in Revit 2019 format.
- Native Revit geometry used throughout, including nested families (e.g. no AutoCAD or SAT files etc.).
- Loadable families have been created with host types appropriate to their use, this is outlined for each family type in Section 2.
- Consistent family and shared parameters have been used sparingly, allowing for Woven Image attributes to be scheduled in the Revit project environment.
- 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. The origin point has also been applied accordingly.
- Detail level settings applied to 3D geometry and plan views improving model performance.
- All warnings have been reviewed and removed where possible.
- The families have been fully purged and all additional materials, line patterns and fill patterns removed.
- Logical and consistent family and type naming has been applied across all families.
- OmniClass and UniClass classification has been set appropriately.
- The family file sizes have been optimised to be relatively small when the family's overall capabilities are considered, ensuring large Revit projects are not burdened by Woven Image families.



2.0 REVIT CONTENT LIBRARY OVERVIEW

2.1 Loadable Panel Families

The Woven Image Revit content library contains a range of loadable 3D family files to satisfy a variety of approaches to documenting the various acoustic panel products. As can be seen below, the embossed panels feature two family files per product range – A single panel family that can be cut down to the desired size (*Panel_Acoustic*), and a line-based family to automate the process of documenting multiple panels side by side (*PanelArray_Acoustic*).



2.2 Array Ceiling Baffles

A series of face-based loadable component families have been created for each of the 9 currently available Array ceiling baffle profiles. Accompanying Type Catalogs allow for ease of loading particular thicknesses and colours.



CeilingBaffles_Ac oustic_WovenIma ge_EchoPanel_Ar ray_Valley.rfa

CeilingBaffles_Ac oustic_WovenIma ge_EchoPanel_Ar ray_Viaduct.rfa

CeilingBaffles_Ac oustic_WovenIma ge_EchoPanel_Ar ray_Wave.rfa

3

CeilingBaffles_Ac oustic_WovenIma ge_EchoPanel_Ar ray_Wedge.rfa

Tile_Acoustic_Woven

Image_Fuji_Hachi.rfa

TileArray_Acoustic_

WovenImage_Fuji_Ju

ni.rfa

2.3 Fuji Ceiling Tiles

A series of non-hosted loadable components have been provided to represent the 4 tile profiles within the Fuji range. Default family types allow for swapping between standard colour options within each. A family has been created for each tile size as an assembled arrayble system, with a separate version also being provided for each tile as a standalone component that can be manually placed and rotated on the provided rail family for increased design flexibility.

Tile_Acoustic_Woven

Image_Fuji_Juni.rfa

TileArray_Acoustic_

.rfa

WovenImage_Fuji_Ku

2.4 System Families (curtain walls)

Rail_Ceiling_WovenI

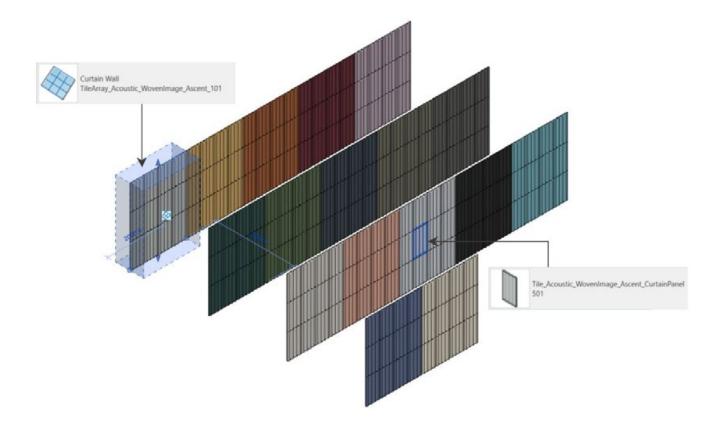
mage_Fuji.rfa

TileArray_Acoustic_

WovenImage_Fuji_H

achi.rfa

Curtain wall system families have been supplied for the Ascent tile range. These wall types generate individual system panels at a fixed size based on the desired overall wall height and length. Each panel can be individually referenced and quantified via a curtain panel schedule if desired.



TileArray_Acoustic_

WovenImage_Fuji_Ro

ku.rfa







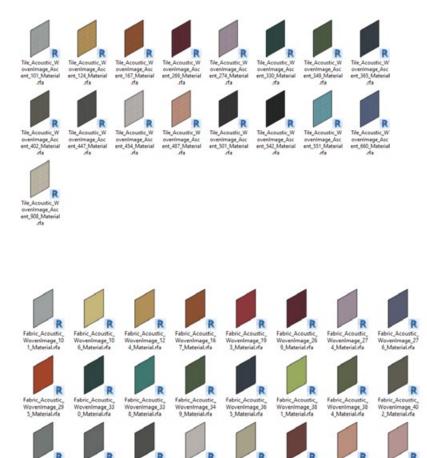


2.5 Loadable Material Families

The Woven Image Revit content library contains a suite of loadable generic model components (.rfa), each representing a single colour across the various ranges of acoustic panels and tiles. The materials come preconfigured with hatch patterns and normal maps where appropriate and can be easily copied into an active project for realistic visualisation.

The below sections outline the specific colours available for each product offering:

17 x Ascent tiles



WovenImage_57 3_Material.rfa

Novenimage_57 9_Material.rfa

0_Mate

age_57

36 x EchoPanel® acoustic panels

Wovenimage_72 1_Material.rfa

WovenImage_9 8 Material.rfa

Wovenimage_66 0_Material.rfa

Vovenimage_63 3_Material dr

WOVEN IMAGE®

contents \leftarrow

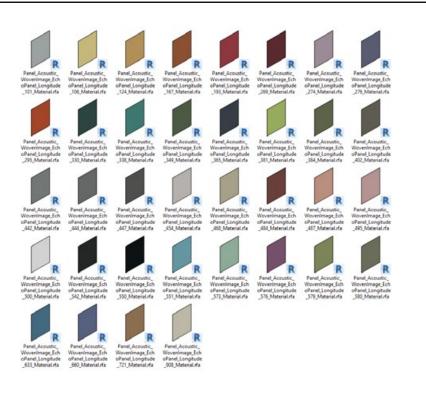
36 x EchoPanel® Empire panels

<page-header><complex-block><complex-block><complex-block>

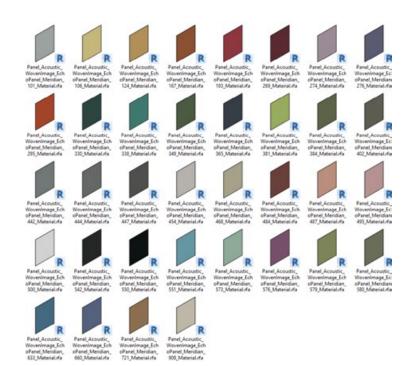
 Perel Acourti, Norminage, Rie Acourti, Some and Some

36 x EchoPanel[®] Latitude panels

36 x EchoPanel® Longitude panels



36 x EchoPanel® Meridian panels







 \leftarrow

36 x EchoPanel® Ohm panels

34 x EchoPanel® Palace panels

U. e P L du el P al da ij Wove Panel, Acoustionel, P minege, EchoP Weve Panel Acoustic, nel P nimage EchoPa elace 351 Mete eLP nimage_Echol el_P nimage_Echol el_da elace \$76 Mat el,P Panel Acoustic simage EchoP ege_EchoPanel_P nel,P Nove al.P Acoustic, Wove Panel, Acoustic, Wove age, EchoPanel, P 1711. Material de alane 901. Material, de

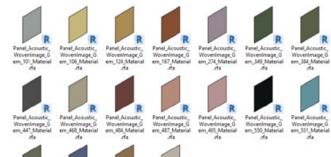
himage_Echol hm 365 Mate

Panel, Acoustion nimage_EchoP hm. 468 Mate

nimage_E hm 381

nimage_Ec

20 x Gem embossed panels









20 x lon embossed panels





25 x Pico embossed panels

wevening co_551_M

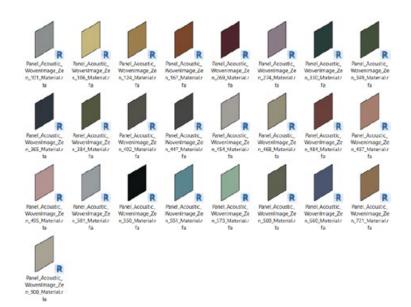








25 x Zen embossed panels



2.6 Virtual Showroom/QA Project File

A sample Revit project has been created that contains all families and types laid out side by side. This project contains sample floor plans, 3D perspectives and a preconfigured schedule allowing Revit users to quickly assess the families' performance in a project environment.

These Revit assets can be 'copied & pasted' into another Revit project as an alternative workflow to loading the separate families into your project.

REPERS	1010 H 17 P A	B . 0	🔾 🖬 🕹 Autocea	Revet 2018.2.6 - X26_HH	Romaniage, Rest 2018, Virtual Romanian 1: 20 View, 01 3D Restals:
La Antonia Un	unture theat funtation inser-	Annature Anature MA	assing its United States and Mark	and Antina	Modify (General Moders (2) =
[(7) min	W. Winner the Ph	The strain	and the Q and and a first 1	Louis man size	
0 124	X NON DR		· · · · · · · · · · · · · · · · ·		
training statements	DOM . LO.	+ day an une	11 11 1 1 + 12 h		No. 100 Million Annual Contractory and Annual
-	V Burr BA	Tube Properties			
Select + Properties Cla		Obe surfacises			Wold With Park Planment
		Daniel Danielous Aug	and Manadatana Para	Mode M	NOOT WERE Pare Pacement
Modify Generic Models	Moves With Nearby Cleman	and canned on	str, town branchings, Pros 1 Land		
Properties		Tate: 511	v bakas.		V Q III Index X
Panetheray, Acc	rustic, Wovenimage, Pico		Rename		
501		Type Parameters			
and the second se		Parameter	Value -		Billion (1)
Generic Models (1)	- Elle Edite Typ		1 1897 [7]	· · · · · · · · · · · · · · · · · · ·	
Constraints		Materials and Finishes			
Langth	1795.0	Material	Fabric, Acoustic, Wovenimage, 5	-	
ManufacturerHeightFrom/F	180	Dimensions			
Offiel	60	ManufacturerOveratiOepth	9.0		
Work Plane	Level : Ground Floor	Mentility Data			
Durivensione		CristingEt	105 BM Selutions		
DesiredHeight	2800.0	Ceatedbullit	Mitps://spagroup.com.au		
Manufacturer Overall Vergint		ManufacturerSpecCode	Witness Image - Pate - 121		
				-	
ManufacturerOveralLength			pecifitetps;//www.wovenimage.com/e	- E	
Visure	0.020 /m²	Modifiedose	20220510-00		
Allentify Deta		Type Image			
imape		Kaynobi			
Commanits		Model	Woven Image - Pico - 501		
Mark		Manufacturer	Woven Image		
Properties help		Type Comments	Alice - 501		
		1.41	https://www.wovenimage.com/	_	
	enage_Rest2015_VetualShowice#	Description	Influenced by the strong architectur		
(i) (d) Vews (ell)		Assembly Code			
🔒 - Roor Pana		Cest			
 01 Ground Room 		Unclass2019Code	Pr. 15. 91. 13. 80	-	
02 Ground Rook		Unities20110.0e	Second attenuator with units	-	
- 00 Ground Rook	r - Coane	Unclass2017Wersion	Products v121	100	
30 Views		for any contract	Product The Co		
01 3D Realistic		Multification according Au-		prict Model Schethale	
01 3D Shaded				Ween Image	EchoParell Paters is pet of Horn Image's pressor of Access Parel objector and protein service or EchoParel Paters 106. Were Image EchoParel Paters 106
- (32)		or Prevent	OK Canoli Austra	Vision Image	EchdPaulit Fasce a part of Hown Image's process cat Acoustic Pauli calecton and present prefix Invests on EchdPauli - Pasce - Gil Woown Image's EchdPauli - Pasce - Gil
E Legends				Wexen Image	EchiParell Pates is part of How Images process of Associe Panel celector and presents prets Invent on EchiParel Pates 107 Wrow Image EchiParel Pates 107
III Schedules/Guantitie		Parahers Accuse Warm	mage EchoPanel Palace 100	Waven Image	EchoParell Palace is part of Horn Image's processor rat Acoustic Parel collection and presents prefix Innovation/EchoParel Palace 103 Wrom Image EchoParel Palace 103
Genetic Model Sche	shule	Panakeray Acoustic Warent		Woven image	EchoPanell Palace is part of Hore image's precision cut Acounts Panel collection and presents perfectionaries (EchoPanel Palace 200 Worker Image EchoPanel Palace 200
E Sheets (all)		Paniferay Acoustic, Worked		Wysen Image	ExhiPanell Palace is per of Hore Image's precision cut Acoustic Panel collection and presents profile Invention ExhiPanel Palace 201 Witten Image ExhiPanel Palace 201
🔆 🖽 families		Paniferay Acousts, Wanes		Waven Image	ExhePrendl Palace is part of Horen Image's process out Accessio Parel collection and presents profile Instants on ExhePrend Palace 275 Wilson Image's ExhePrend Palace 275
 Annotation Symbols 		PaniAray Acoustic Walest		Woven Image	EchoProvide Parace is part of these image's percent of Accessic Paral collection and persons perfectionsent on EchoParal - Paral collection and persons perfectionsent on EchoParal - Paral collection and personsent on Accessic Paral collection
Cable Trays		ParaiArap Acausia, Huard ParaiArap Acausia, Huard		Water Image Water Image	EchoPanell Palace is part of Horen Image's processor cut Accessis Panel collection and process gents Inseres an EchoPanel Palace 320 Winne Image's EchoPanel Palace 320 EchoPanel Palace 320 Winne Image's EchoPanel 320 Winne 320 Winn
E Castergs		Parethras Acautic Visian		Water Image	Excellence ranks a per different mages percented a Access Pare connecte and persons period interest of Excellence - Pares 2.01 Provem hange Excellence - 100 Provem h
 Conduits Curtain Panels 		Paralteria: Acausta Waner		Waren Image	Exhibited Palace a part of Reen Impris provide of Associa Pand colorities and property pertit Instants on Exhibited Palace 201 Wreen Impris Exhibited Palace 201
		Paralitory Acaustic Vision		Wowen Image	EchoPanell Fasce a part of House Image's process cut Accurate Panel collectors and presents prefix Insurity on EchoPanel -Paters - 301 Visces Image EchoPanel -Paters - 301
 Curtain Systems 		FandAray Acoustic Women		Worken Image	EchoPanell Pasco is part of How's Image's process of Acoustic Panel collection and persons performance in EchoPanel Pasco 304 Vision Image EchoPanel Pasco 304
E Curtain Wall Mullion		Paralleray Acausta (Faran		Waven Image	ExhaPanel Paters is part of Hones Image's previous out Accounts Panel collection and presents perfor Innersh on ExhaPanel Paters 402 Woom Image ExhaPanel Paters 402
		Panikens Acoustic Vinner		Water Image	ExhoPanel Palace is part of Howen Image's processor out Accounts: Panel collection and presents prefix Invested and ExhoPanel -Palace - 444 Wissen Image's ExhoPanel -Palace - 444
Zoorra in or out using the Co.	ri + mause wheet or Cot + (+/-). To	Paniferaj Acouste Water		Woven truge	EchoPanell Palace is part of Novem Image's percent cut Acoustic Panel collection and presents prefix Inseent an EchoPanel Palace - 607 Women Image EchoPanel Palace - 607
the second	and the second s	Paralitras Acausta Wasard	masa EutoPanel Palaca 468	Waven Imailer	EchoParell Palace is pet of Hove Image's precision out Acaustic Panel collection and ansantic present on EchoParel Palace 483 Work Image EchoParel Palace 483



3.0 TECHNICAL DETAILS

3.1 Type Catalog Families

To minimise unnecessary types being loaded into a Revit project, all Woven Image Array baffle family files have been created with an accompanying Type Catalog file. When an Array baffle system is loaded into a Revit project, the 'Specify Types' dialog opens. Properties can be filtered at the top to narrow down the selection giving full control over the family types that will be loaded.

amily:	Types:			
elingBaffles_Acoustic_Wov A	Туре	BaffleThickness	Beam200	Model
		12.0	(all) 🗸	(all)
	Beam 200 - 12mm - 101	(all)	1	Woven Image - EchoPanel - Array - Beam 200 - 12mm - 101
	Beam 200 - 12mm - 108	12.0	1	Woven Image - EchoPanel - Array - Beam 200 - 12mm - 108
	Beam 200 - 12mm - 124	24.0	1	Woven Image - EchoPanel - Array - Beam 200 - 12mm - 124
	Beam 200 - 12mm - 167	12.0	1	Woven Image - EchoPanel - Array - Beam 200 - 12mm - 167
	Beam 200 - 12mm - 193	12.0	1	Woven Image - EchoPanel - Array - Beam 200 - 12mm - 193
	Beam 200 - 12mm - 269	12.0	1	Woven Image - EchoPanel - Array - Beam 200 - 12mm - 269
	Beam 200 - 12mm - 274	12.0	1	Woven Image - EchoPanel - Array - Beam 200 - 12mm - 274
	Beam 200 - 12mm - 276	12.0	1	Woven Image - EchoPanel - Array - Beam 200 - 12mm - 276
	Beam 200 - 12mm - 295	12.0	1	Woven Image - EchoPanel - Array - Beam 200 - 12mm - 205
	Beam 200 - 12mm - 325	12.0	1	Woven Image - EchoPanel - Array - Beam 200 - 12mm - 325
	Beam 200 - 12mm - 330	12.0	1	Woven Image - EchoPanel - Array - Beam 200 - 12mm - 330
	Beam 200 - 12mm - 338	12.0	1	Woven Image - EchoPanel - Array - Beam 200 - 12mm - 338
	Beam 200 - 12mm - 349	12.0	1	Woven Image - EchoPanel - Array - Beam 200 - 12mm - 349
	Beam 200 - 12mm - 365	12.0	1	Woven Image - EchoPanel - Array - Beam 200 - 12mm - 365
	Beam 200 - 12mm - 381	12.0	1	Woven Image - EchoPanel - Array - Beam 200 - 12mm - 381
	Beam 200 - 12mm - 384	12.0	1	Woven Image - EchoPanel - Array - Beam 200 - 12mm - 384
	Beam 200 - 12mm - 402	12.0	1	Woven Image - EchoPanel - Array - Beam 200 - 12mm - 402
	Beam 200 - 12mm - 442	12.0	1	Woven Image - EchoPanel - Array - Beam 200 - 12mm - 442
	Beam 200 - 12mm - 444	12.0	1	Woven Image - EchoPanel - Array - Beam 200 - 12mm - 444
	Beam 200 - 12mm - 447	12.0	1	Woven Image - EchoPanel - Array - Beam 200 - 12mm - 447
	Beam 200 - 12mm - 454	12.0	1	Woven Image - EchoPanel - Array - Beam 200 - 12mm - 454
	Beam 200 - 12mm - 468	12.0	1	Woven Image - EchoPanel - Array - Beam 200 - 12mm - 468
	Beam 200 - 12mm - 487	12.0	1	Woven Image - EchoPanel - Array - Beam 200 - 12mm - 487
	Beam 200 - 12mm - 500	12.0	1	Woven Image - EchoPanel - Array - Beam 200 - 12mm - 500
	Beam 200 - 12mm - 542	12.0	1	Woven Image - EchoPanel - Array - Beam 200 - 12mm - 542
	Beam 200 - 12mm - 550	12.0	1	Woven Image - EchoPanel - Array - Beam 200 - 12mm - 550
	Beam 200 - 12mm - 551	12.0	1	Woven Image - EchoPanel - Array - Beam 200 - 12mm - 551
	Beam 200 - 12mm - 576	12.0	1	Woven Image - EchoPanel - Array - Beam 200 - 12mm - 576
	Beam 200 - 12mm - 579	12.0	1	Woven Image - EchoPanel - Array - Beam 200 - 12mm - 579
	Beam 200 - 12mm - 580	12.0	1	Woven Image - EchoPanel - Array - Beam 200 - 12mm - 599 Woven Image - EchoPanel - Array - Beam 200 - 12mm - 580
	Beam 200 - 12mm - 533	12.0	1	Woven Image - EchoPanel - Array - Beam 200 - 12mm - 500 Woven Image - EchoPanel - Array - Beam 200 - 12mm - 633
	Beam 200 - 12mm - 660	12.0	1	Woven Image - EchoPanel - Array - Beam 200 - 12mm - 660
<	Seam 200 - 12mm - 000	1.00	1	woven image - EchoPanei - Alray - beam 200 - 12mm - 000

To load a Type Catalog, you must load the family through the Revit ribbon bar 'Insert Family' command and browse to the file location. Dragging and dropping the RFA file into a Revit model will cause Revit to load the family with only a single generic type ignoring the associated Type Catalog list.

- The TXT file must be in the same directory as the RFA file, with the same file name. Take care if moving files into BIM libraries or project folders.
- The RFA family must be opened from a file menu in Revit not through drag and drop.
- Only load variation you think will be needed to reduce the number of items in the list of available object types.

CONTENTS

3.2 Materials Library

Basic, non-intrusive materials have been included in the Revit library.

Materials are named with the same hierarchical structure as the families:

<Type>_<Manufacturer>_<Descriptor> to fit in with existing material libraries.

All unused material assets have been deleted from the families, in addition to purging out all material assets where possible.

Material Browser - Panel_Acoustic_WovenImage_EchoPanel_Empire_908	3	? ×			
Search	G Identity Graphics Appearance +				
Project Materials: All 🔹	Panel_Acoustic_WovenImage_EchoPanel_Empire_908	80			
Name					
Panel_Acoustic_WovenImage_EchoPanel_Empire_908	(mail)				
Panel_Acoustic_WovenImage_EchoPanel_Latitude_101					
Panel_Acoustic_WovenImage_EchoPanel_Latitude_108	► Information				
Panel_Acoustic_WovenImage_EchoPanel_Latitude_124	▼ Parameters Image	•			
Panel_Acoustic_WovenImage_EchoPanel_Latitude_167	Fabric_Acoustic_WovenImage_908.jpg				
Panel_Acoustic_WovenImage_EchoPanel_Latitude_193	Reflectance 0.04 Roughness 0.50				
Panel_Acoustic_WovenImage_EchoPanel_Latitude_269	Translucency				
Panel_Acoustic_WovenImage_EchoPanel_Latitude_274	► Emissivity ▼ ✓ Relief Pattern (Bump)				
Panel_Acoustic_WovenImage_EchoPanel_Latitude_276	Image Carlos Carlos Carlos				
Panel_Acoustic_WovenImage_EchoPanel_Latitude_295	Panel_Acoustic_WovenImage_EchoPanel_Empire_Norma	al.jpg			
[] • Q • =	Cutout				

Revit materials that use custom image textures will appear grey or a flat colour without the image if the image cannot be 'found' by Revit. This means the process of downloading and linking the image folder to Revit needs to be done just once. After downloading the material texture images for the selected product range, follow the steps below to 'point' Revit to these images:

- Step 1 If your office has an existing location for material assets, copy all associated material texture images into the given folder. Alternatively, create a local folder on your computer to place all custom material assets into.
- **Step 2** Once images are in the correct location, in Revit, select 'file', then select 'options'.
- Step 3 In the options dialog, select 'rendering' then the green plus '+' sign.
- **Step 4** Paste the folder path from Step 1, or select the three dots, and navigate to that folder, then select 'OK'.

Once this has been completed, any previously opened views set to 'realistic' will need to be changed to 'shaded', then back to 'realistic' to see the changes. After the material images folder has been established, Steps 2, 3 and 4 do not need to be repeated for each product range, simply copy the images into the same shared folder. If multiple versions of Revit are in use, Steps 2, 3 and 4 will need to be repeated for each Revit version.

3.3 Loadable Acoustic Panels

All Woven Image acoustic panel ranges have been created using several families, each with their own dedicated application and workflow.

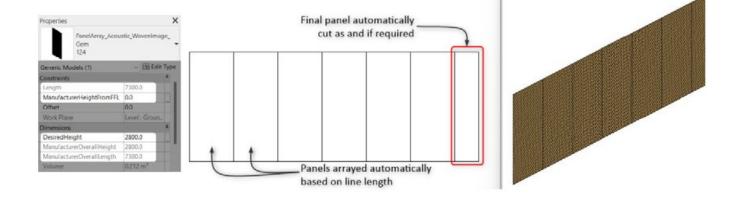
The single face-based embossed panels will follow the orientation and slope of any face or wall to which it is hosted. This version of the product represents a full-size single panel that can be cut down as required. To cover an entire wall, the single panels will need to be placed side by side either via copy/paste or the Revit array tool.

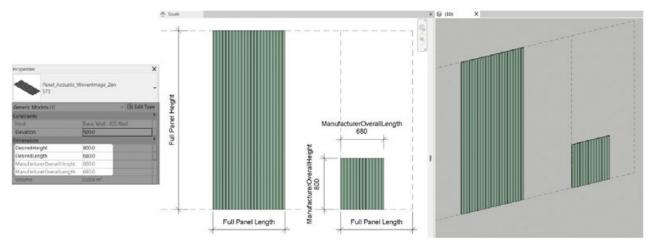
The provided **DesiredHeight** and **DesiredLength** parameters can be updated to resize the panel. The values input to these parameters are validated via the **ManufacturerOverallHeight** and **ManufacturerOverallLength** parameters to ensure a full single panel size is not exceeded.

The line-based panel Array version of the acoustic panels allow for drawing a line to follow the length of any given wall or surface, with the panels arraying and resizing automatically to satisfy the specified overall length. The **DesiredHeight** parameter may be updated to create a cutdown version of the selected panel, with the input value being automatically validated via the **ManufacturerOverallHeight** parameter to ensure the height of any panel never exceeds the size of the actual product.

To cover a wall vertically, copy/paste the family and adjust the vertical offset using the

ManufacturerHeightFromFFL parameter. Alternatively the array tool may be used in a front view to quickly generate multiple rows of vertically stacked panels.







CONTENTS



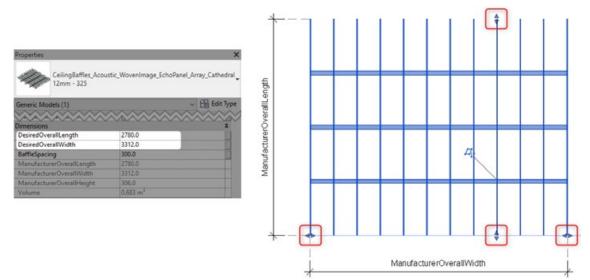
Finally, a material only family has been provided across all ranges for easily loading a panel material of a specific type and colour. As these families use custom created normal maps rather than detailed 3D geometry, they are a quick and lightweight alternative for applying panel materials directly to any model surface.

3.4 Array Ceiling Baffles

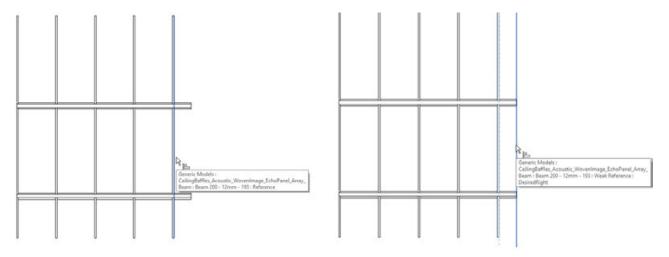
The following sections outline the key customisation options for the Woven Image Array baffles range of face-based acoustic ceiling baffles.

3.4.1 Control Overall System Sizing

The overall length and width of any baffle system can be defined either by inputting specific values into the provided **'DesiredOverallLength'** and **'DesiredOverallWidth'** parameters or utilising the provided grip arrows in a plan view to dynamically adjust overall system sizing.



Overhanging rail ends can be adjusted to terminate at the outside face of the final baffle by using the align tool (AL) in a plan or side view. With the align tool active, first select the outermost face of the final baffle in the sequence as the alignment reference, then use the TAB key with the mouse hovering over the overhanging rail ends to select the **'DesiredRight'** reference before clicking to apply the align command.

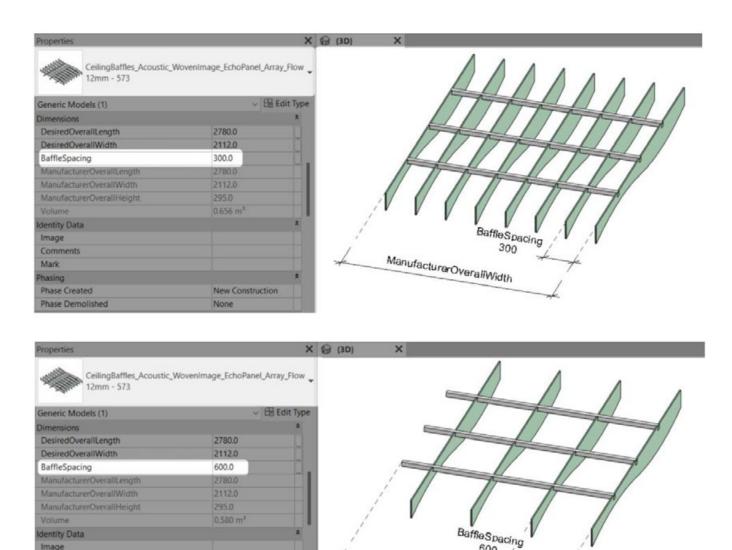






Please note that there may be a necessity to retain the overhanging rails in the situation where a negative detail/shadow line arrangement is desired by combining multiple instances of baffles (see Section 3.4.3).

The dedicated 'BaffleSpacing' parameter allows user input of the centre-to-centre spacings of baffle rows. Adjusting this parameter will automatically add or remove rows of baffles as required based on the specified overall system width.



600

ManufacturerOverallWidth

New Construction

None

Image

Comments Mark hasing Phase Created

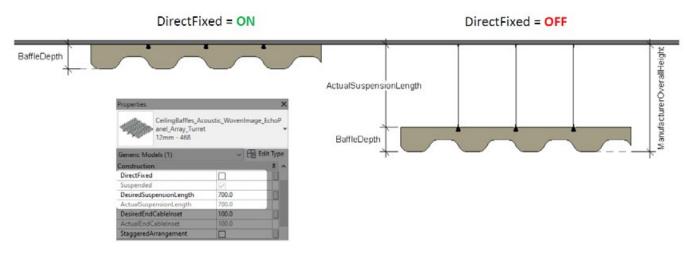
Phase Demolished

WOVEN IMAGE®

REVIT CONTENT INTRODUCTION & USER GUIDE

3.4.2 Defining Baffle Installation Type

All Array baffle families feature the '**DirectFixed'** tick box parameter that can be toggled on or off to swap between the two different installation methods.



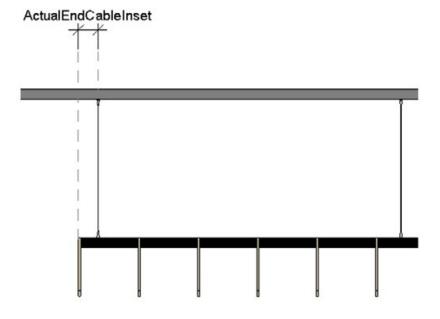
When a suspended system is specified, the 'DesiredSuspensionLength' parameter allows input of a length value to control the suspension cable lengths i.e. the distance from the hosting face to the top of the crossrails. The input length here will be automatically validated so as to not exceed the value contained in the type-based 'RecommendedSuspensionLength' parameter. This value has been set to 1200mm by default, however, can be increased to achieve longer suspension cables.

2009-00-0	-					
-amily:	CeilingBa	ffles_Acoustic_WovenIma	ge_EchoPanel_Array_Turr	et 🗸	Load	
Type:	24mm - 9	908	Duplicate			
				[Rename	
Type Paran	neters					
	P	arameter		V	alue	
Dimens	ions					
BaffleTh	ickness		24.0			
BaffleDe	epth		295.0			
Recomn	nendedSus	pensionLength	1200.0			
Identity	/ Data	RecommendedSuspe	nsionl enoth			
Created	Ву		e been assessed from an	engineerin	a	
	ByURL	perspective up to a len	gth of 1200mm. Please	consult with	Woven	
Created		loss a second a second a second in the	ig this parameter as proj	ect-specific		

When documenting a suspended system, the position of the first and last suspension cable can be controlled via the **DesiredEndCableInset** parameter, which will automatically validate to remain within the allowable range.

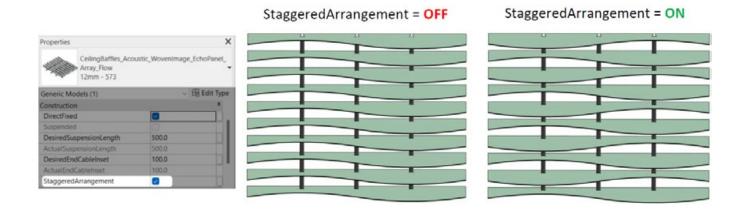


-	CeilingBaffles_Acc anel_Array_Turret 12mm - 468	A second to the second s	ge_EchoP
Generic Mod	dels (1)	~ 8	Edit Type
Construction	1		* *
DirectFixed			
Suspended			
DesiredSuspensionLength		700.0	
ActualSuspensionLength		700.0	un data data
DesiredEnd	CableInset	100.0	
ActualEndC	ableInset	100.0	
Staggered	rrangement		and state



3.4.3 Updating Baffle Arrangement

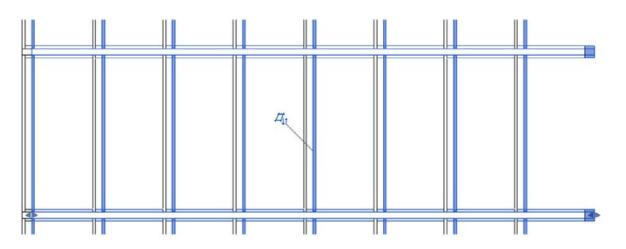
For asymmetrical baffle profiles, the **'StaggeredArrangement'** tick box parameter allows for increased visual variance, providing the ability to toggle between an aligned or staggered patterning of baffles.



17

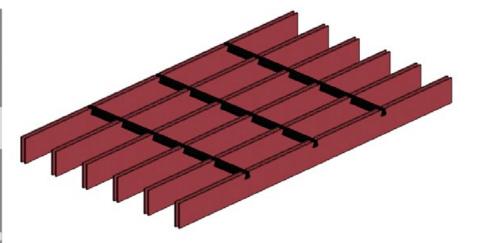


Multiple instances of Array baffles may be combined to achieve a negative detail/shadow line configuration, in which there are back-to-back baffles with a small gap between. This can be achieved by copying an instance of the Array baffles in the direction of the cross rails by the desired amount.



Ensure that the '**ShowCrossrails**' parameter is deactivated on this copied instance to avoid duplicate rails and cables. It is important that the installation methods and suspension lengths (if applicable) are identical across all instances used within this configuration to guarantee correct horizontal alignment. Rail ends can be adjusted to suit as per the steps outlined in Section 3.4.1.

Properties		×
CeilingBaffles_Acc Beam 200 - 12mm	vustic_WovenImage_EchoPanel_Ar 1 - 193	rray_Beam _
Generic Models (1)	~ 8	Edit Type
Host	Level : Ground Floor	1
Elevation	0.0	
Construction		\$
DirectFixed	M	
Suspended		
DesiredSuspensionLength	500.0	
ActualSuspensionLength	500.0	
DesiredEndCableInset	100.0	0
ActualEndCableInset	100.0	
Dimensions		¥
Identity Data		8
Phasing		8
Phase Created	New Construction	
Phase Demolished	None	
Visibility		\$
ShowCrossrails		10



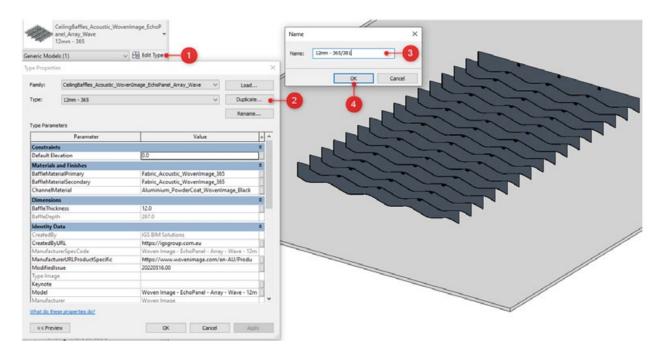
WOVEN IMAGE®

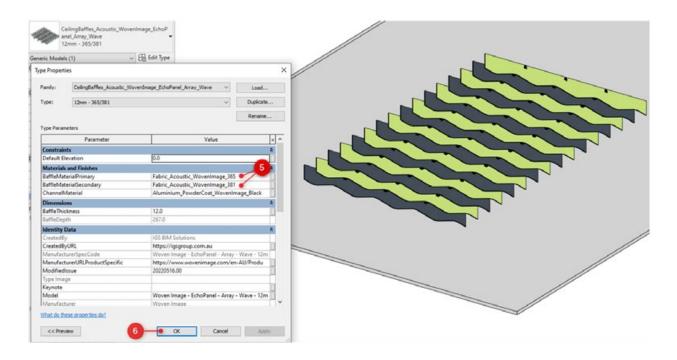
REVIT CONTENT INTRODUCTION & USER GUIDE

3.4.4 Alternating Baffle Colours

Family types exist for all available baffle thicknesses and colours across the Array product range. Further customisation is provided via the **'BaffleMaterialPrimary'** and **'BaffleMaterialSecondary'** material parameters.

By default, these parameters are set to the same value and as such all baffles will display as a consistent colour according to the family type selected. Custom types can be created using the 'duplicate type' workflow (outlined below), at which point a logical type name can be applied and the appropriate **'BaffleMaterial'** parameter changed to display alternating rows of baffles in differing colours.





3.5 Fuji Ceiling Tiles

The range of Fuji tile products have been provided as non-hosted families as both an arrayable assembled system (tiles and supporting rail), and standalone componentry for the various Fuji tile sizes and rail system. The following sections outline the key customisation options for the Woven Image Fuji range of acoustic ceiling tiles.

3.5.1 Placement and Sizing

Once an instance of the Fuji arrayed tile system is placed, the ManufacturerHeightFromFFL parameter is able to be adjusted to define its mounting elevation e.g. underside of ceiling above.

The provided **TileQuantity** parameter allows for input of any positive integer (including '1'), which will in turn update the geometry of the component to feature additional Fuji tiles to suit. The spacings between these tiles can be adjusted using the **DesiredTileSpacing** parameter, which will automatically validate via the calculated ActualTileSpacing parameter to ensure tiles within the array never interact with each other.

The reported ManufacturerOverallWidth parameter is calculated based on the tile quantity, tile spacings, and any rail end extensions applied (see Section 3.5.2).

2540 nage Fuji Ku ManufacturerOverallHeight ActualTileSpacing 850 ManufacturerHeightFromFFL 1800.0 Ground Floo ManufacturerHeightFromFFL TileQuantity = 3 850.0 Ground Floor

3.5.2 Defining Installation Method

The **DirectFixed** tick box parameter has been provided within all the assembled Fuji families and the standalone rail component. Activating this parameter will update the component's geometry to remove the suspension cables and automatically reposition the rail and any supported tiles to generate a direct fixed variant of the selected instance.





CONTENTS



ManufacturerOverallWidth



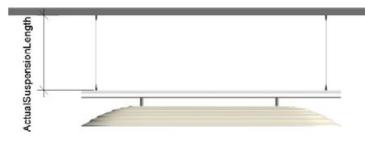
IMAGE®

WOVEN

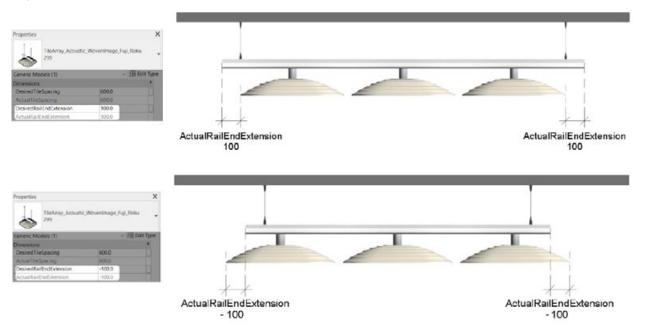
REVIT CONTENT INTRODUCTION & USER GUIDE

When **DirectFixed** is not active, the family will be displayed using the suspended installation method. Multiple options are provided around the suspension conditions. **The provided DesiredSuspensionLength** allows for inputting the desired suspension cable **length**, which is automatically validated via the **ActualSuspensionLength** parameter.

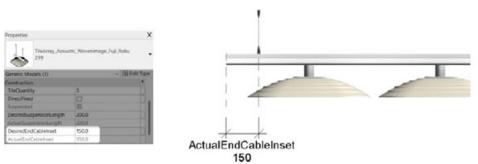




The **DesiredRailEndExtension** parameter allows for defining the length that the supporting rail extends from the outer edges of the end most Fuji tiles. The input value to this parameter can be either negative or positive to alter the direction that the rail end moves. The input value will be automatically validated via the **ActualRailEndExtension** parameter to ensure the rail end is never inset enough to result in an unsupported Fuji barrel kit.

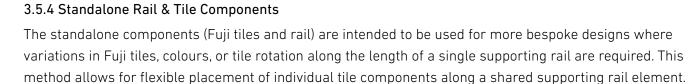


When documenting a suspended system, the position of the first and last suspension cable can be controlled via the **DesiredEndCableInset** parameter, which will automatically validate to remain within the allowable range.

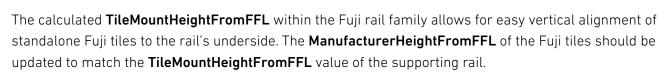


3.5.3 Barrel Kit Options

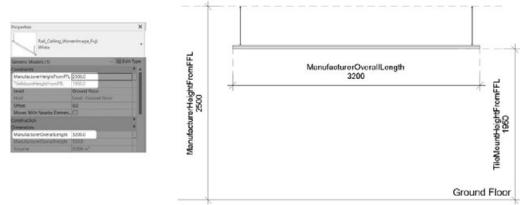
The **BarrelKitTypeSelector** parameter allows for instance-based control over the connecting barrel kit that integrates with the supporting rail geometry. Making a selection from the drop-down options within this parameter will allow for swapping between the 3 available standard colour combinations of barrel kit. Please note, it is important to ensure to only choose one of the 3 types within the 'z_BarrelKit_WovenImage_ Fuji' family.



The placement and options around installation method for the standalone Fuji rail are identical to that of the arrayed version (outlined in Section 3.5.1 and Section 3.5.2). One key exception is that the length of the rail is not automatically controlled based on the quantity of tiles, but rather requires user input to the **ManufacturerOverallLength** parameter.











CONTENTS

3.5.5 Applying Custom Colours

Beyond the 4 x standard colour options for each Fuji tile, a dedicated 'Custom' family type has been included as a starting point for creating non-standardised colour combinations. The steps below demonstrate the suggested workflow for achieving custom colour Fuji tiles. This workflow is identical for both the arrayed assembled Fuji families and the standalone Fuji tile families.

Firstly, place an instance of the 'Custom' family type from within the desired Fuji tile family.



Select this newly placed Custom Fuji system/tile and access the Edit Type dialogue (1). From here, duplicate the type (2) and rename to feature the desired colour(s) to be applied to the tile (3). Once the type has been duplicated, update the **TileTopMaterial** and **TileBottomMaterial** parameters with the appropriate fabric colour materials available within the Woven Image Virtual Showroom file (4). Select OK to apply all changes and reveal the custom Fuji tile solution (5).

Properties		Type Properti				- (
	stic_WavenImage_Fuji_Hachi	Family:	TileArroy_Acoustic_Wove	r@nage_Fuji_Hoo	ini 👻	Load		
Custom	I	Type:	633+484		~	Duplicate		
Generic Models (1)	~ 🗄 Edit ype					Rename		
Constraints	2		3	-		Rename		
ManufacturerHeightFromFF	L 3600.0	Type Parame	eters	1	1			
Level	Ground Floor		Parameter		Value	=		
Host	Level : Ground Floor	Materials	and Finishes					
Offset	0.0	TileTopMa	iterial	Fabric Acoust	c Wovenima	acte 633		
Moves With Nearby Elemen	- 🖸	TileBotton		Fabric Acoust				
Construction	A	Dimension						
TileQuantity	3	and the second se	rerÖverallDepth	847.0		1		
DirectFixed		TileLength		1745.0				
Suspended	O T			1745.0				
DesiredSuspensionLength	500.0	TileHeight	ndedSuspensionLength					
ActualSuspensionLength	500.0	and the second s	the second s	1200.0				
DesiredEndCableInset	100.0	Identity D						
ActualEndCableInset	100.0	Ascembly	Code					
	I monthe a second	Cost						
Properties help	Apply	CreatedBy		IGS BIM Solut	ions			
Project Browser - IGS_Woven	Image_Revit2019_VirtualShowroom	CreatedBy		https://igsgro		-		
🗐 💭 Views (all)					part of the Fuj	of the Fuji collection		
- Floor Plans		Keynote						
-01 Ground Floor		Manufactu	rer	Woven Image				
- 02 Ground Floor		ManufacturerSpecCode Woverspage - Fuji - Hach			i Custom			
- 03 Ground Floor	- Coarse	Defension and the board out of a self a self a self and the self and the self and the self as a self						
- 3D Views		What do the	se properties do?					
- 01 3D Realistic								
01 3D Shaded		<< Previe	w	OK 🔍	Cancel	Apply		

24

REVIT CONTENT INTRODUCTION & USER GUIDE

4.0 CLOSING STATEMENT

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



