

Revit to Advance Steel Collaboration Via SMLX.

John Bennett

Customer Success Manager

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About the speaker

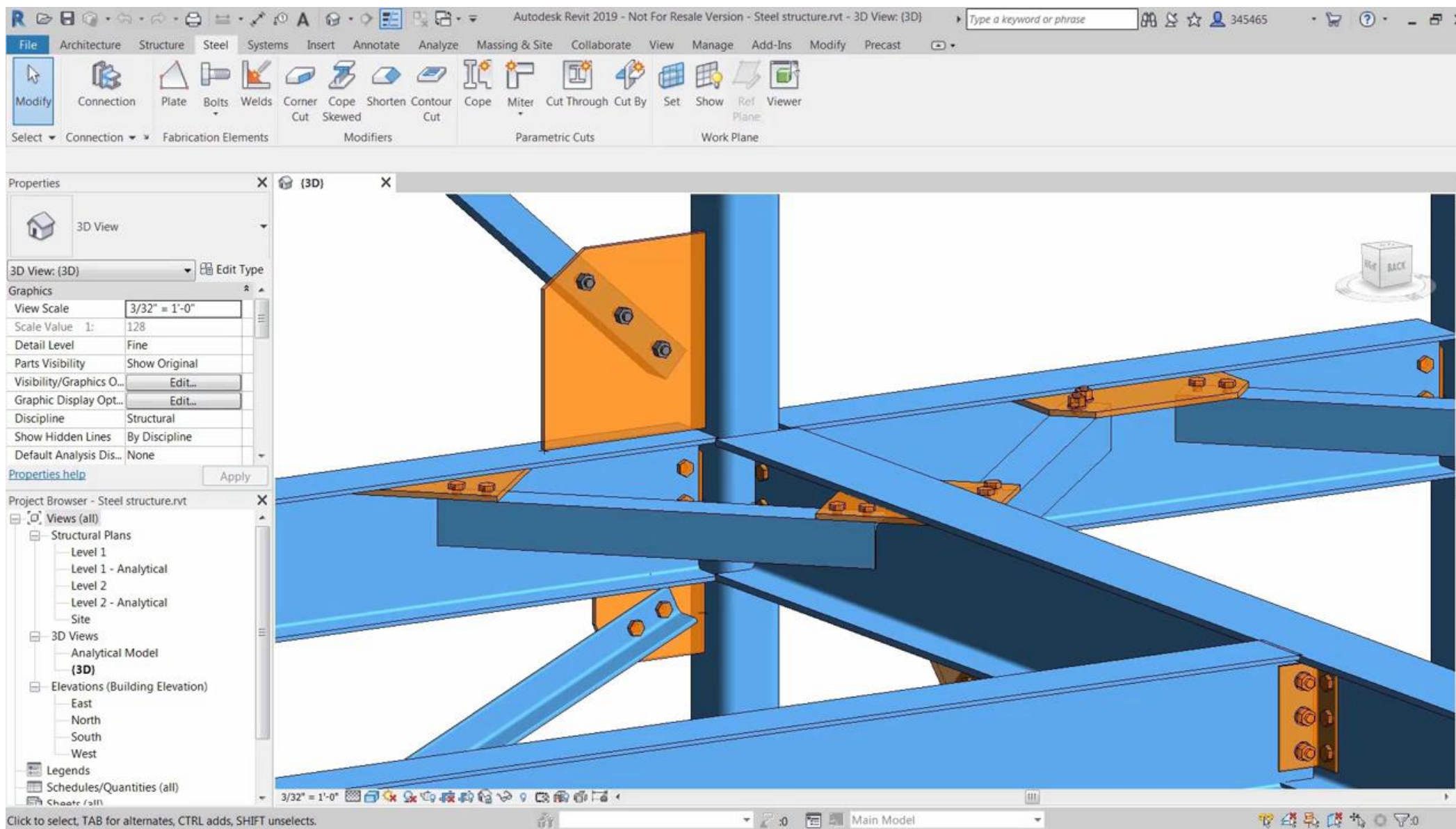
MY BACKGROUND

John Bennett has a structural engineering and fabrication background. He worked as a steelwork detailer then progressed to CAD manager and then moved into the role of application engineer/CSM for Advance Steel software training, sales, and implementation. He has recently been working with various companies for the integration of Advance Steel into plant engineering and structural markets.

Introduction & Key Learning



Revit 2019 – New Tools



Introduction- Revit to Advance Steel (Advance to Revit)

We see this question many times recently and are asked where to find the information.

- How do we do this, what is the best method, What is the SMLX file.
- What will be transfer. Where do we find the information.

We have many questions over the route used and the settings required, can we create a template in Revit, what should we look for.

With so many questions it is not always easy to see the workflow or even understand it, what is happening in the background. This was the idea for this class coming from the 2018 version, with its several updates and different file locations and changes.

Key Learning Objectives

REVIT ADVANCE STEEL EXTENSION

- What is the Extension, where is it found, why is it required?

SMLX FILE

- An understanding of the SMLX file and what it is doing to transfer the meta Data from Revit to Advance Steel/ Advance Steel to Revit. Look at the different mechanisms used in the file

ELEMENTS TRANSFER

- Understanding the limits of what can be transfer, how this is changing each release to include more compatibility between the platforms. Insight into the Connections and New Customs Connections

CONNECTION TRANSFER

- What can be created in the Recent Versions, the Changes made in the 2019.
- How do you install it/ do you need to install it.

TIPS AND TRICKS

- Tips along the way, we think Engineering and detailing work together easier.

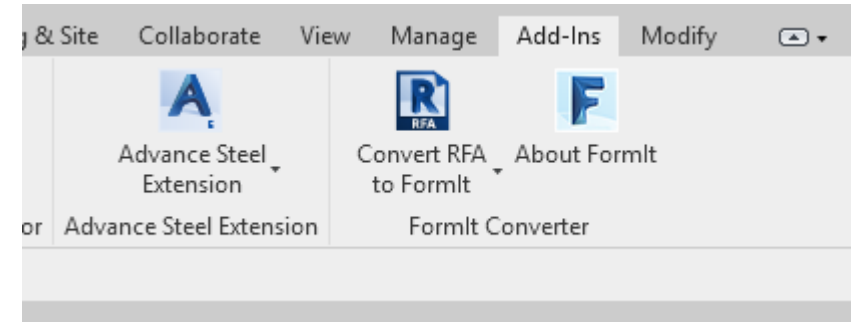
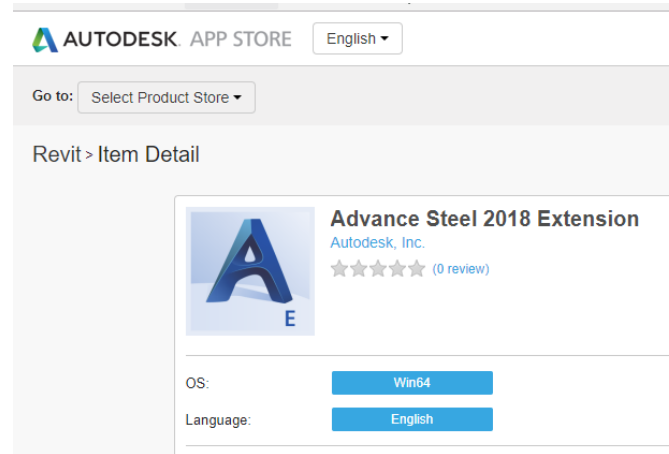
Revit to Advance Steel The Extension.



Revit Advance Steel Extension. – Install and Version

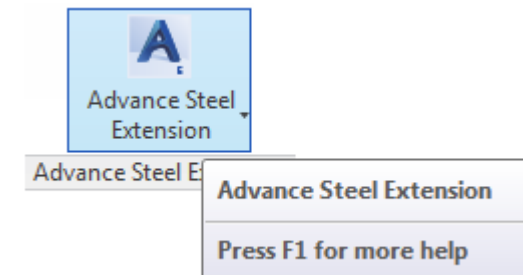
WHERE DO WE FIND IT:

- On the Autodesk Apps Store
- In your Autodesk account.
- Where is it on the ribbon
- Help files



ARE THE VERSIONS DIFFERENT:

- Yes each build of Revit and Advance Steel have a specific extension install.
- Recently each year we have seen improvements to interoperability of the Extension to handle different elements of Steel Fabrication and connections, as well as main beams and columns.



- [Revit 2018 – apps store link](#)
- [Revit to Advance Steel 2018 Help.](#)
- [Revit to Advance Steel 2019 Help](#)

Revit Advance Steel Extension. – How does it work

MECHANISMS BEHIND THE EXTENSION:

- What is the SMLX File : Steel markup language file format.
- Within the extension there are several different ways it Transfers this data:
- Sections Mapping – based upon Expression rules from object shape references, Direct 1 to 1 mapping.
- Revit Family based section mapping (Section Key)
- Custom Profiles Mapping as Dynamic
- Materials Mapping

Key	GTC Standard	GTC Section
1 AISC HSS Pipe		\bPipe\s(\d{1,2})\s(\d{1,2})\s(\d{1,2})X(\d{1,2})
2 AISC HSS Pipe		\bPipe\s(\d{1,2})\s(\d{1,2})\s(\d{1,2})X(\d{1,2})
3 AISC S Shape		\bS(\d{1,3})X(\d{1,3})\s(\d{1,3})
4 AISC ST		\bST(\d{1,3})X(\d{1,3})\s(\d{1,3})
5 AISC ST		\bST(\d{1,2})\s(\d{1,2})\s(\d{1,2})X(\d{1,2})
6 AISC W Shape		\bW(\d{1,2})\s(\d{1,2})\s(\d{1,2})
7 AISC WT Tee		\bWT(\d{1,2})\s(\d{1,2})\s(\d{1,2})\s(\d{1,2})

Specify Types							
Family:	Type	Plastic Modulus strong axis	Plastic Modulus weak axis	Torsional Moment of Inertia	Warping Constant	Principal Axes Angle	Section Name Key
W Shapes.rfa	(all)	(all)	(all)	(all)	(all)	(all)	(all)
	W44X335	1620.00 in ³	236.00 in ³	74.70 in ⁴	535000.000 in ⁶	0.000°	W44x335
	W44X290	1410.00 in ³	205.00 in ³	50.90 in ⁴	461000.000 in ⁶	0.000°	W44x290

All Access Objects	
Search...	
Tables	
ASVersion	
CIS2_Bolt_Conversion	
GTC_Application	
GTC_Material_Conversion	
GTC_Profile_Conversion	
KISS_Application	
KISS_Material_Conversion	

Key	Material	GTC Material	Application
20052	Steel	Steel	Revit
20053	Steel AISI 1022	1022	Revit
20054	Steel AISI 1015	1015	Revit
20055	Steel ASTM A242	ASTMA242	Revit
20056	Steel ASTM A913	ASTMA913	Revit
20057	Steel 64-460	64-460	Revit
20058	Steel 55-450	55-450	Revit
20059	Steel 55-430	55-430	Revit
20060	Steel 55-415	55-415	Revit

Settings

C:\ProgramData\Autodesk\RVT 2018\Libraries\US Imperial\Structural Columns\Steel\AISC 14.1
C:\ProgramData\Autodesk\RVT 2018\Libraries\US Imperial\Structural Framing\Steel\AISC 14.1

Add Path... Edit Path... Remove Path

☒ Import plates ☐ Export beams shortenings
☐ Disable join for beams ☐ Import only structural elements (e.g. beams, columns, bracings, ...)
☐ Export based on view settings ☐ Export only structural elements (e.g. beams, columns, bracings, ...)
☐ Export grids
☒ Export custom profiles as dynamic

OK Cancel

Revit Advance Steel Extension. – Mechanism -1

SECTIONS MAPPING – BASED UPON EXPRESSION RULES FROM OBJECT SHAPE REFERENCES.

- Sections Mapping –Use the object shape references for the profile transfer, use a Formulae entry
- These entries are stored in the Advance steel GTC mapping database, under two tables.

Key	Standard	Section	GTC Standard	GTC Section	ObjectType	Application	UseReqEx	Country	Version
365	Sections_square_cold BS EN10219-2 1997	\bSHScf(\d{2,3})X(\d{1,2})(?:\.\d{1})?)	UK Square Cold	UK SHScf %1X%2	1	1	1	NULL	NULL
366	Sections_square_cold BS EN10210-2 1990	\bSHS(\d{2,3})X(\d{1,2})(?:\.\d{1})?)	UK Square Warm	UK SHS %1X%2	1	1	1	NULL	NULL
367	Sections_square_cold BS EN10210-2 1990	\bSHS(\d{2,3})X(\d{1,2})(?:\.\d{1})?)	UK Square Warm	UK SHS %1X%2	1	1	1	NULL	NULL
368	Sections_square_cold BS EN10210-2 1990	\bSHS(\d{2,3})X(\d{1,2})(?:\.\d{1})?)	UK Square Warm	UK SHS %1X%2	1	1	1	NULL	NULL
369	Sections_square_cold BS EN10210-2 1990	\bSHS(\d{2,3})X(\d{1,2})(?:\.\d{1})?)	UK Square Warm	UK SHS %1X%2	1	1	1	NULL	NULL
370	UK_BS_Square		UK Square	UK SQ %1X%2	1	1	1	NULL	NULL
371	Sections_StructuralTeasUB BS EN10210-2 1990								
372	Sections_StructuralTeasUC BS EN10210-2 1990								
373	Universal Beam BS EN10210-2 1990								
374	Universal Beam BS EN10210-2 1990								
375	UniversalColumn BS EN10210-2 1990								
376	UniversalColumn BS EN10210-2 1990								
377	UniversalBearingPiles BS EN10210-2 1990								

Key	GTC Standard	GTC Section	Standard	Section	ObjectType	Application	UseReqEx
6672	UK Square Sections Cold Formed	\bSHScf(\d{1,5})[x-xX-X](\d{1,5})[x-xX-X](\d{1,4})	UK Square Sections Cold Formed	SHScf%1x%2x%3	1	0	1
6673	UK Square Sections Cold Formed	\bSHScf(\d{1,5})[x-xX-X](\d{1,5})[x-xX-X](\d{1,4})(?:\.\d{1,3})?)	UK Square Sections Cold Formed	SHScf%1x%2x%3	1	0	1
6674	UK Square Sections Warm Formed	\bSHS(\d{1,5})[x-xX-X](\d{1,5})[x-xX-X](\d{1,4})	UK Square Sections Warm Formed	SHS%1x%2x%3	1	0	1
6675	UK Square Sections Warm Formed	\bSHS(\d{1,5})[x-xX-X](\d{1,5})[x-xX-X](\d{1,4})(?:\.\d{1,3})?)	UK Square Sections Warm Formed	SHS%1x%2x%3	1	0	1
6676	UK Structural Tees UB	\bUBT(\d{1,4})[x-xX-X](\d{1,4})[x-xX-X](\d{1,4})	UK Structural Tees UB	UBT%1x%2x%3	1	0	1
6677	UK Structural Tees UC	\bUCT(\d{1,3})[x-xX-X](\d{1,3})[x-xX-X](\d{1,3})	UK Structural Tees UC	UCT%1x%2x%3	1	0	1
6678	UK Universal Beams	\bUB(\d{1,5})[x-xX-X](\d{1,5})[x-xX-X](\d{1,5})	UK Universal Beams	UB%1x%2x%3	1	0	1
6679	UK Universal Bearing Piles	\bUBP(\d{1,5})[x-xX-X](\d{1,5})[x-xX-X](\d{1,5})	UK Universal Bearing Piles	UBP%1x%2x%3	1	0	1
6680	UK Universal Columns	UC152x152x30n	UK Universal Columns	UC152x152x30n	1	0	0
6681	UK Universal Columns	\bUC(\d{1,4})[x-xX-X](\d{1,4})[x-xX-X](\d{1,4})	UK Universal Columns	UC%1x%2x%3	1	0	1
6682	UK Advance Angle - Equal	\bUKEA(\d{1,4})[x-xX-X](\d{1,4})[x-xX-X](\d{1,3})	UK Advance Angle - Equal	UKEA%1x%2x%3	1	0	1
6683	UK Advance Angle - Unequal	\bUKUA(\d{1,4})[x-xX-X](\d{1,4})[x-xX-X](\d{1,4})	UK Advance Angle - Unequal	UKUA%1x%2x%3	1	0	1
6684	UK Advance Beams	\bUKB(\d{1,5})[x-xX-X](\d{1,5})[x-xX-X](\d{1,5})	UK Advance Beams	UKB%1x%2x%3	1	0	1
6685	UK Advance Bearing Piles	\bUKBP(\d{1,4})[x-xX-X](\d{1,4})[x-xX-X](\d{1,4})	UK Advance Bearing Piles	UKBP%1x%2x%3	1	0	1
6686	UK Advance Columns	\bUKC(\d{1,5})[x-xX-X](\d{1,5})[x-xX-X](\d{1,5})	UK Advance Columns	UKC%1x%2x%3	1	0	1

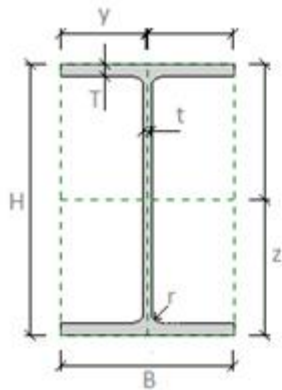
Revit Advance Steel Extension. – Mechanism -1.2

SECTIONS MAPPING – BASED UPON RULES FROM OBJECT SHAPE REFERENCES.

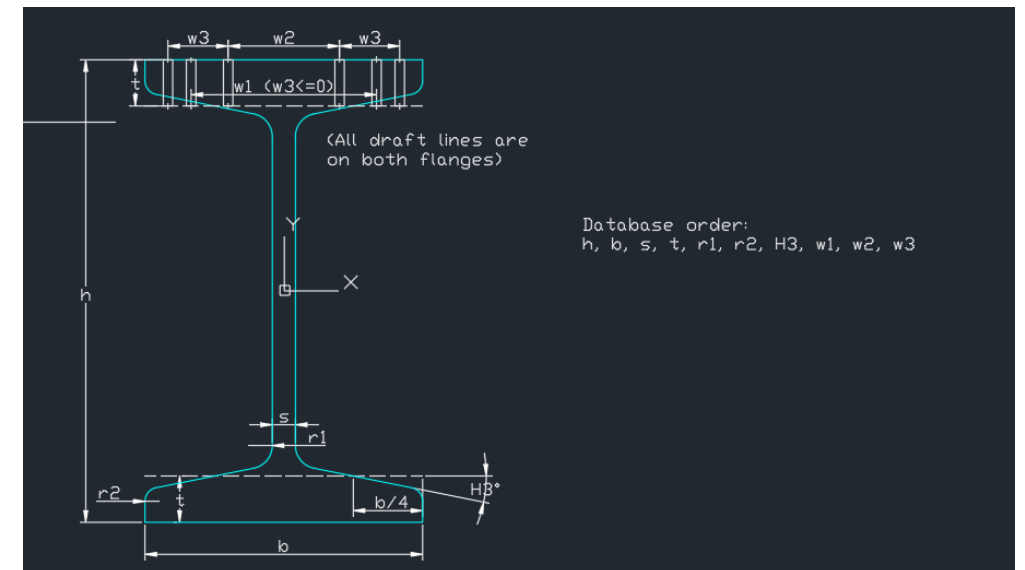
- **Sections Mapping** –Use the object shape references for the profile transfer, use a Expression Formulae entry
- **Rule based mapping**, where a certain rule (using tokens) will allow the mapping of an entire

GRA0381JB\LOCALD...xports_Conversion		GRA0381JB\LOCALD...rofile_Conversion X						
Key	Standard	Section	GTC Standard	GTC Section	ObjectType	Application	UseReqEx	
373	Universal Beam BS EN10210-2 1990	\bUB(\d{3})X(\d{2,3})X(\d{2,3})	UK Structural UB	UK UB %1X%2X	1	1	1	

I-shape Parallel Flange



- B. Width: the external width of the section shape.
- H. Height: the external height of the section shape.
- T. Flange Thickness: the distance between the exterior surfaces of the flange in the section shape.
- t. Web Thickness: the distance between the exterior surfaces of the web in the section shape.
- r. Web Fillet: the radius of the fillet between the web and flange.
- y. Centroid Horizontal: the distance from the centroid of the section shape to the left extremities along the horizontal axis.
- z. Centroid Vertical: the distance from the centroid of the section shape to the lower extremities along the vertical axis.



Revit Advance Steel Extension. – Mechanism -1.3

SECTIONS MAPPING – 1 TO 1 REFERENCES.

- **1 to 1 mapping**, where each section size is mapped individually.
- All manual mappings requested by Advance Steel or Revit during import are saved in the database for further use as one to one mapping.
- Mapping configuration can be made country-dependent; this allows specific selectable country mapping during import / export.

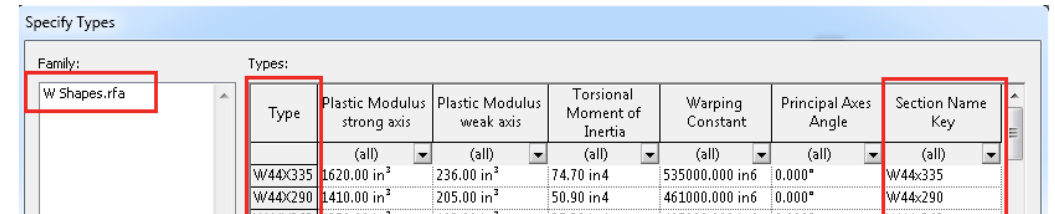
GRA0381JB\LOCALD...rofile_Conversion X									
	Key	Standard	Section	GTC Standard	GTC Section	ObjectType	Application	UseReqEx	C
	3388	CISC Tube Shapes-Column	HS102x51x8.0	CISC HSS	HSS 127X50.8X7.94	3	10	0	NL
	3389	CISC Tube Shapes-Column	HS89x64x8.0	CISC HSS	HSS 88.9X63.5X7.94	3	10	0	NL
	3390	CISC Tube Shapes-Column	HS89x64x8.0	CISC HSS	HSS 88.9X63.5X7.94		10	0	NL
	3391	CISC Tube Shapes-Column	HS89x64x8.0	CISC HSS	HSS 88.9X63.5X7.94		10	0	NL
	3392	CISC Tube Shapes-Column	HS89x64x8.0	CISC HSS	HSS 88.9X63.5X7.94		10	0	NL
	3393	CISC Angle Shapes	L51x38x3.2	CISC Angle unequal	L51X38X3.2	2	10	0	NL
	3394	CISC Angle Shapes	L64X64X13	CISC Angle equal	L64X64X12.7	2	10	0	NL
	3395	CISC Angle Shapes	L76X51X13	CISC Angle unequal	L76X51X12.7	2	10	0	NL
	3396	CISC Angle Shapes	L76X64X13	CISC Angle unequal	L76X64X12.7	2	10	0	NL

Tip : In order for the country column to be used in the transfer, the version column must be filled with a value, inside the GTC_Profile_Conversion and Profile_Export_Conversion tables of the GTCMapping database.

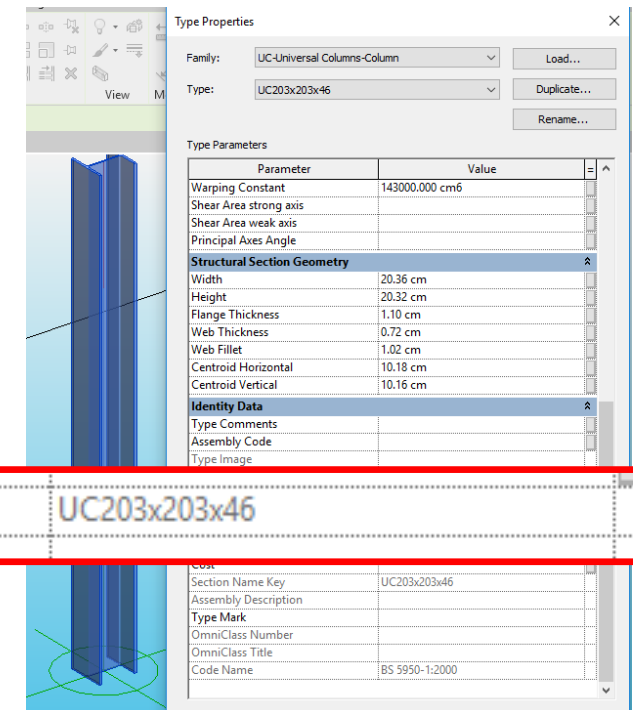
Revit Advance Steel Extension. – Mechanism - 2

REVIT FAMILY BASED SECTION MAPPING

- This process uses the internal Section name inside Adv Steel links it to the Approved Revit Family.
- The link is via the Section class and the key is the “Name”
- These families contain 2 parameters:
 - Family Name Key ,Section Name Key
- Table inside AstorProfiles database, called RevitASProf

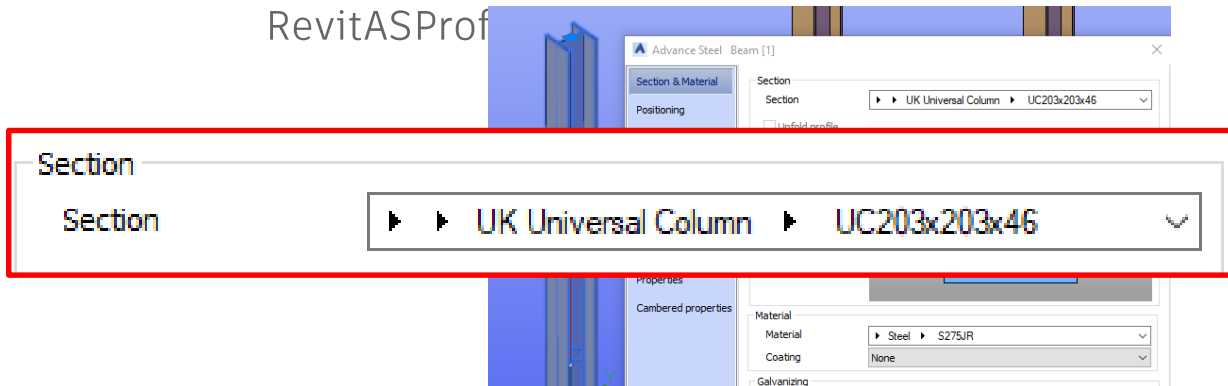


Type	Plastic Modulus strong axis	Plastic Modulus weak axis	Torsional Moment of Inertia	Warping Constant	Principal Axes Angle	Section Name Key
W44X335	1620.00 in ³	236.00 in ³	74.70 in ⁴	535000.000 in ⁶	0.000*	W44x335
W44X290	1410.00 in ³	205.00 in ³	50.90 in ⁴	461000.000 in ⁶	0.000*	W44x290



Parameter	Value
Warping Constant	143000.000 cm ⁶
Shear Area strong axis	
Shear Area weak axis	
Principal Axes Angle	
Structural Section Geometry	
Width	20.36 cm
Height	20.32 cm
Flange Thickness	1.10 cm
Web Thickness	0.72 cm
Web Fillet	1.02 cm
Centroid Horizontal	10.18 cm
Centroid Vertical	10.16 cm
Identity Data	
Type Comments	
Assembly Code	
Type Image	

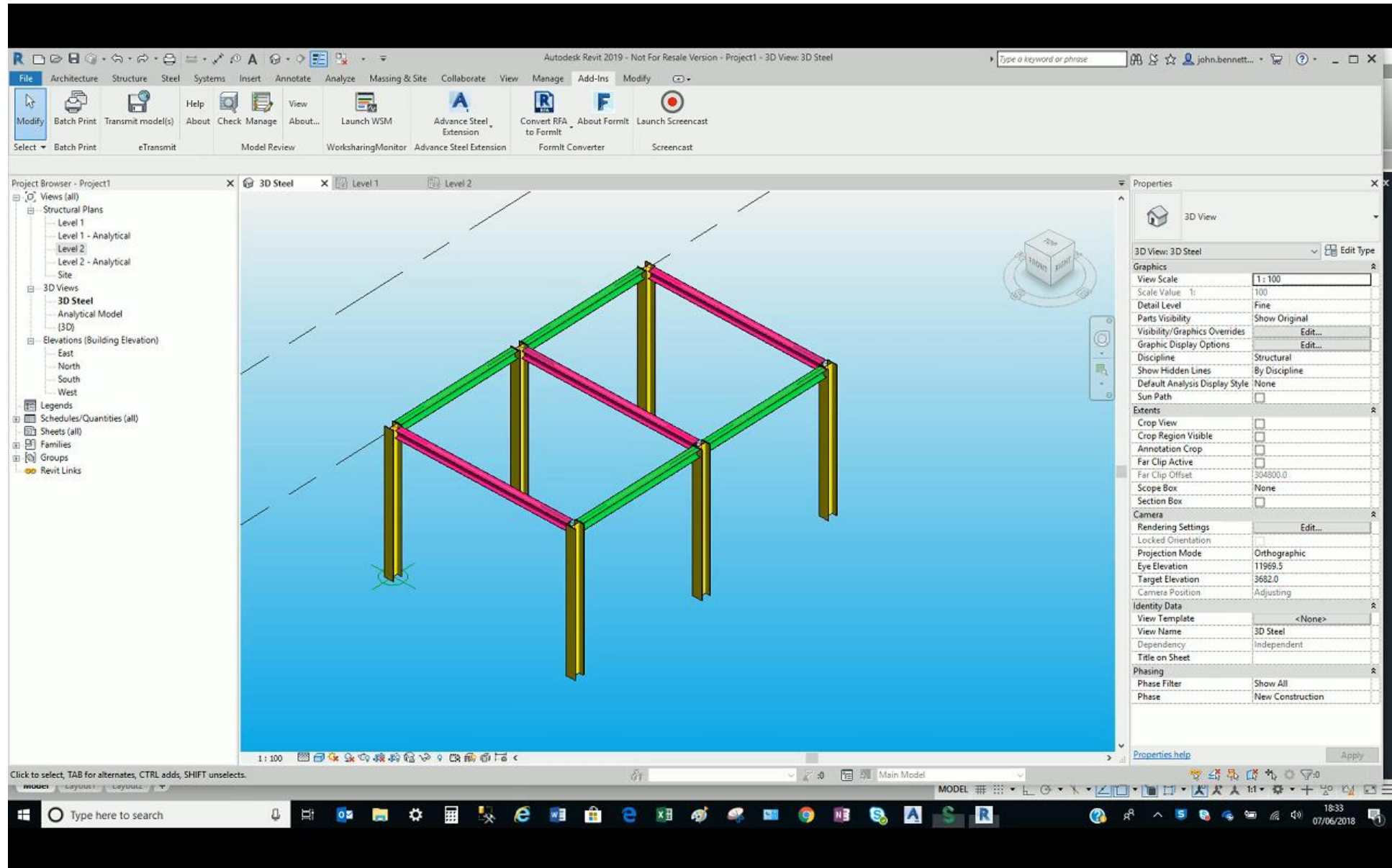
Section Name Key	UC203x203x46
Assembly Description	
Type Mark	
OmniClass Number	
OmniClass Title	
Code Name	BS 5950-1:2000



Tip : if the Revit project uses Structural Steel, Try first to use the designated approved Families provide by Autodesk, this makes collaboration workflow smoother.

[Revit Family based mapping help link](#)

Revit to AS – Basic Section Transfer



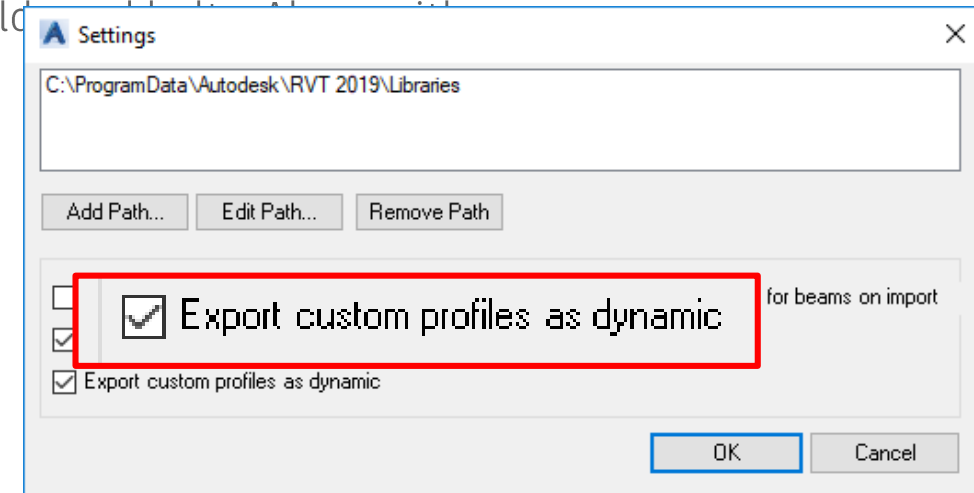
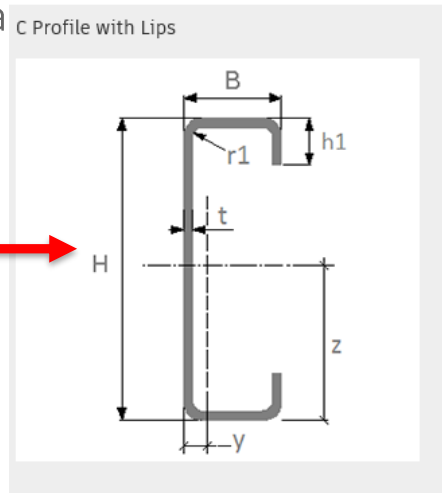
Revit Advance Steel Extension. – Mechanism - 3

CUSTOM PROFILES MAPPING AS DYNAMIC

- This is for profiles that are from approved Structural family shape references, but do not exist in Advance steel, the Profile is mapped as Dynamic type.
- This method places a profile inside advance steel model, it is not added to the Advance steel database.
- 2019 improvement , this mechanism is used as the basis for the Steel Fabrication Format

Type	Description
C	Channel Cold Formed
CEx	Channel with Fold, Cold Formed
F	Flat
H	Rectangular Hollow Section
I	I Shape
IAsym	I Shape Asymmetrical
LA	Angle Cold Formed
LZ	Zed Cold Formed
R	Circular Hollow Sections (Pipe)
S	Round Bars
T	Tees
U	Channel
W	Angle

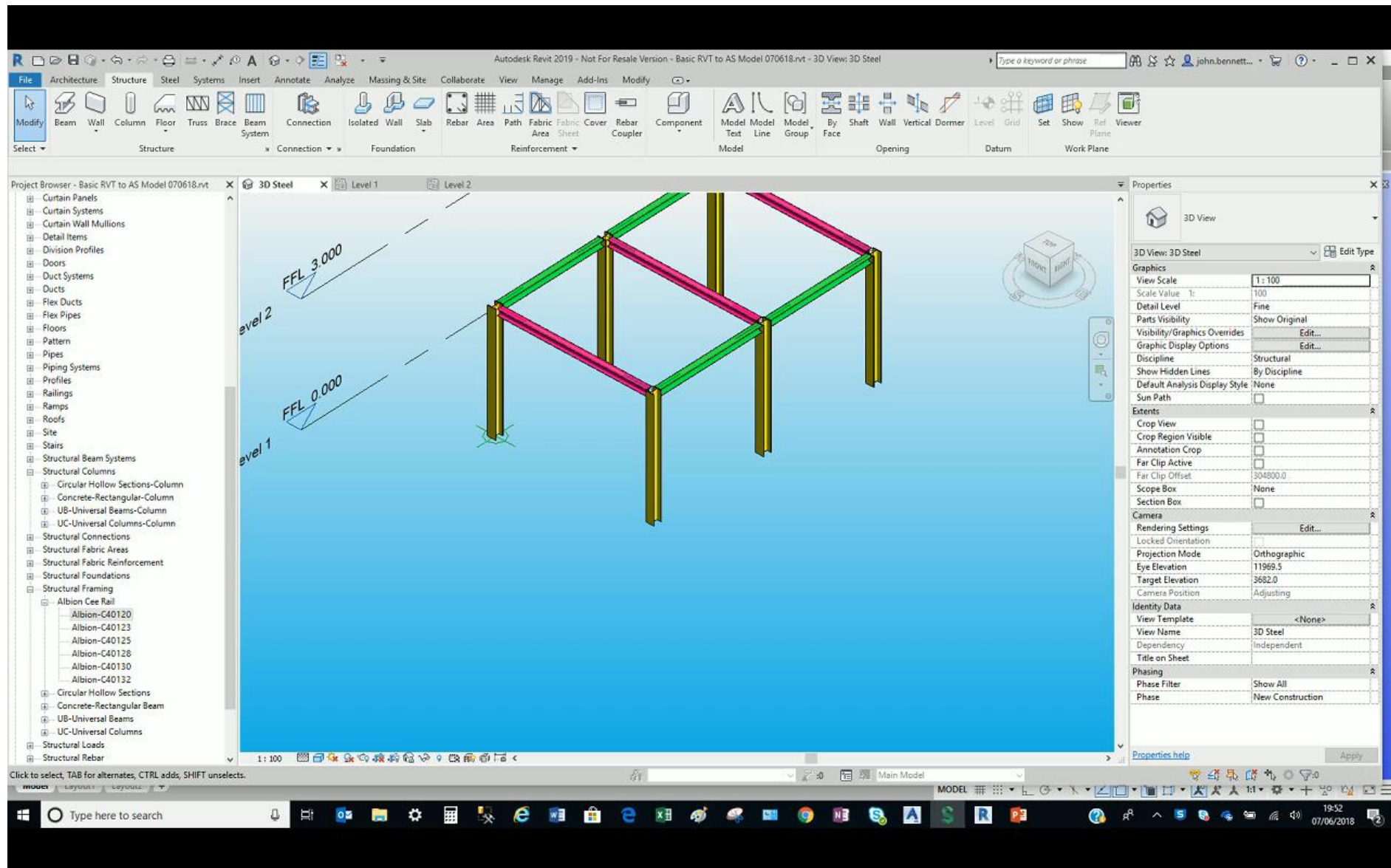
and fa plates, weld



Tip : Dynamic profiles are transferred in Advance Steel and saved inside the model. There are no entries created inside the AstorProfiles.mdf

[Revit Dynamic Profile Transfer help](#)

Revit to AS – Dynamic Transfer.

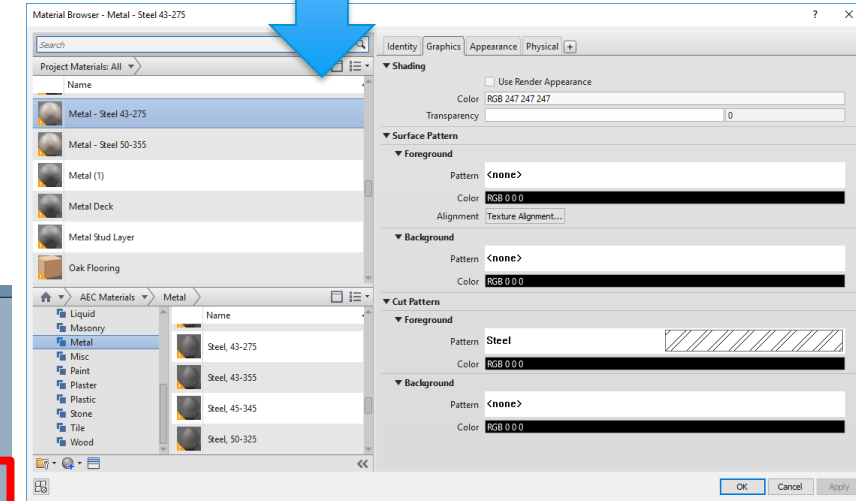
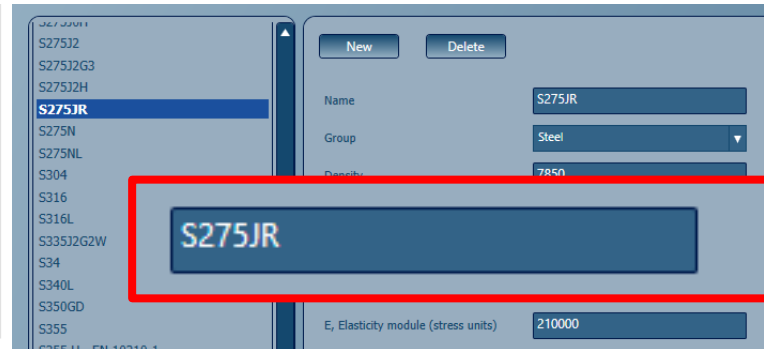
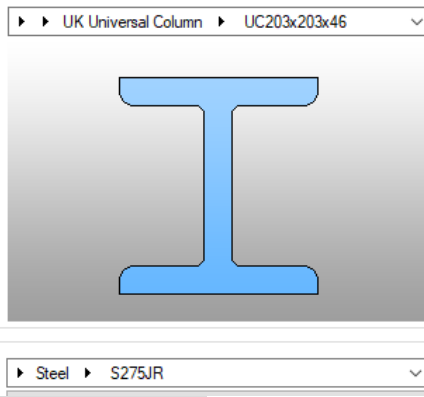
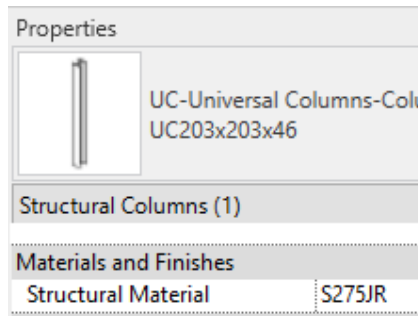
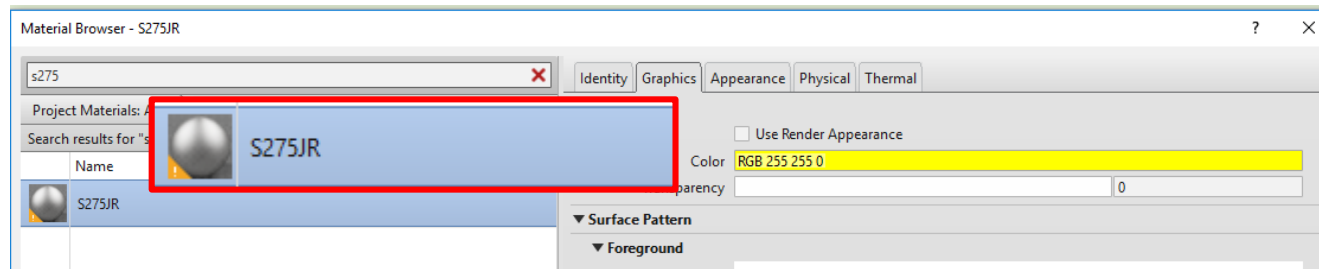


Revit Advance Steel Extension. – Materials

MATERIALS MAPPING

- Materials Mapping – uses the AEC materials in Revit as a Basis.
- Link is via a materials table in the GTC Database inside AS.

Key	Material	GTC Material	Application
20057	Steel 64-460	64-460	10
20058	Steel 55-450	55-450	10
20059	Steel 55-430	55-430	10
20060	Steel 55-415	55-415	10
20061	Steel 51-275	51-275	10
20062	Steel 50-355	50-355	10

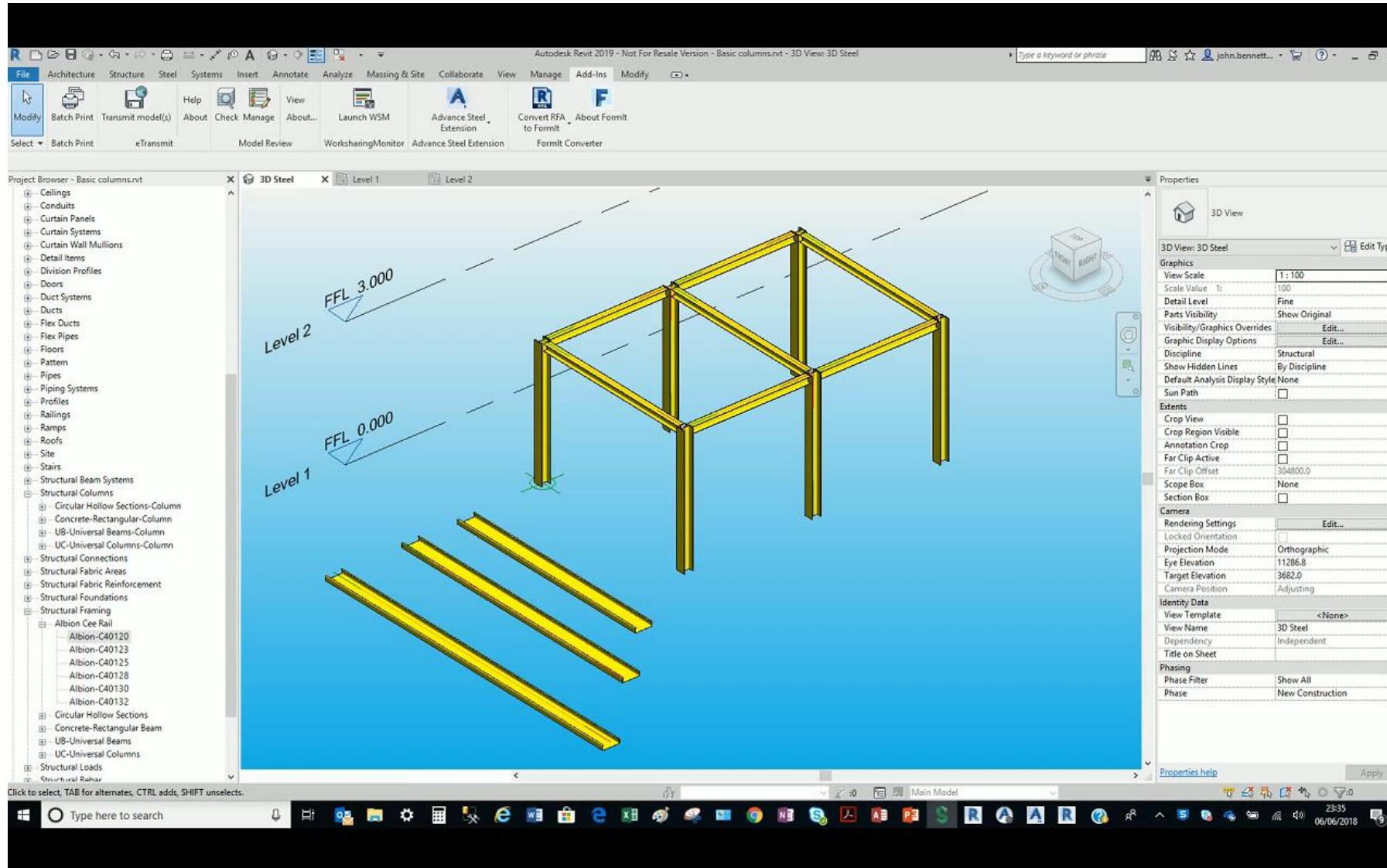


Note : AS to Revit will create a material if not found in Revit Material browser

Tip : Materials Mapping – creating new material in Revit, note that and explain to detailer, they can create corresponding materials in Advance steel, to help the mapping dialog. Use the Key Name in AS if known, make key name same as Revit MATLs.

[Revit AS Extension Mapping help link](#)

Revit to AS – Materials Mapping



Revit to Advance Steel Approved Families.



Revit Approved Families

FAMILIES LOCATIONS - 2018

- These are the ones with the Section keys.
- Linked to standard structural shapes in Revit and Advance Steel
- Approved families found via blog link, to into Revit 2018.1
 - [Revit 2018.1 update](#)

FAMILIES 2019

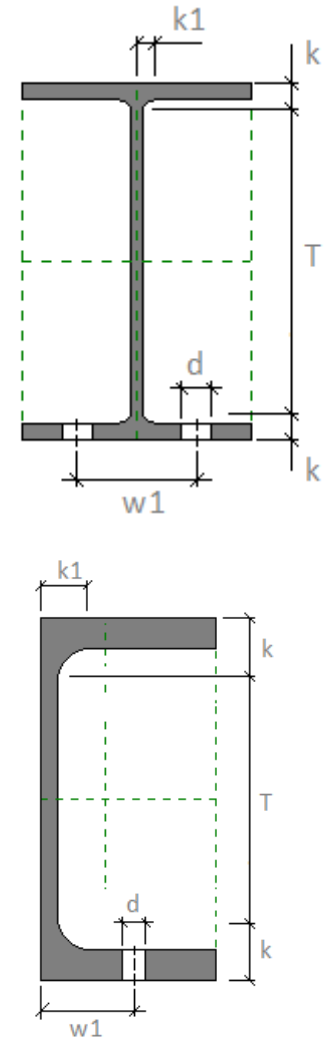
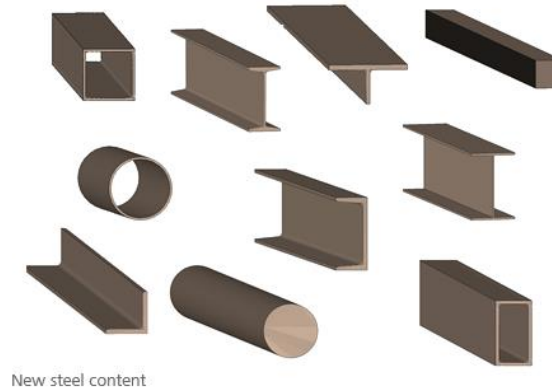
- Only **Structural steel columns and framings** are supported in the **steel fabrication workflow**.
- Framing Elements need to meet a series of requirements for the steel fabrication workflow
 - Material for Model Behaviour parameter - must be set to Steel
 - Section Shape parameter must be set to a supported shape.

Supported Structural Steel Shapes and Families for Steel Fabrication

Tip : Try To use the approved families for Revit Structural beams and columns , these are the only ones with the Section keys.

[Help: Family And Category](#)

Structural Section Shapes in Revit



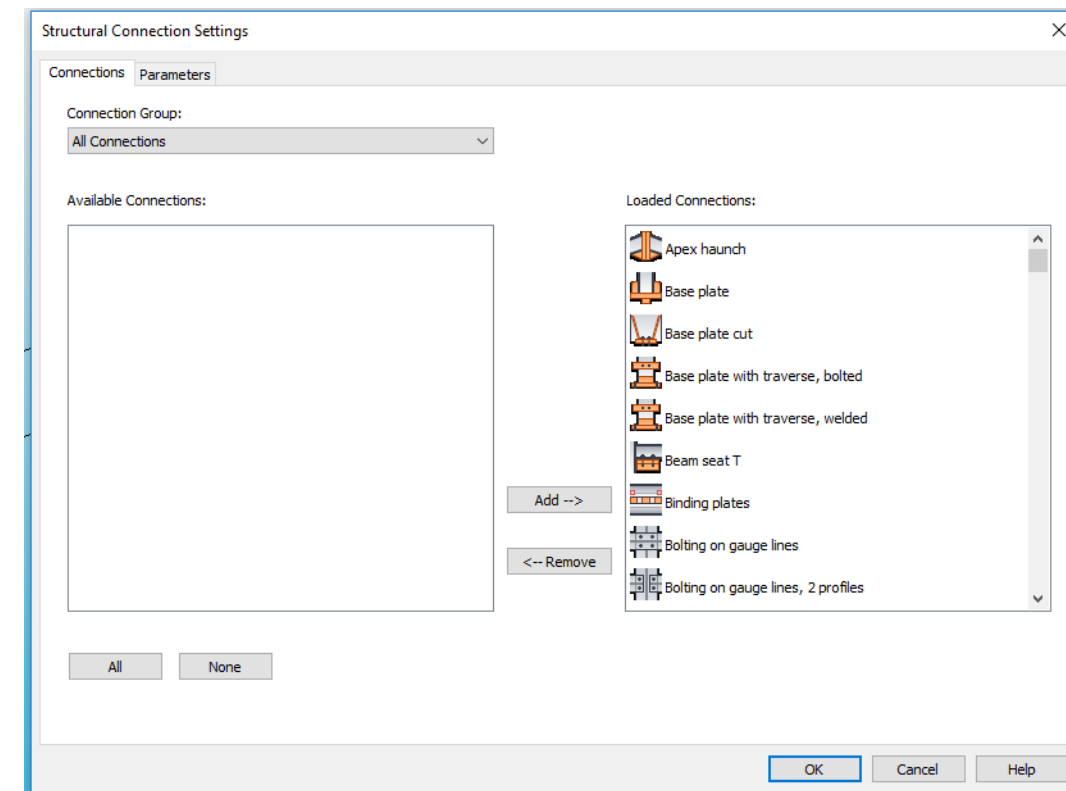
Revit Steel Connections Where and Why.



Revit – Steel Connections – 2017/8 Slide 1.1

STEEL CONNECTIONS

- Available as a additional download and install to the Revit 2018 platform, from your Autodesk account
- Revit 2019 – ***Steel connections are installed with the delivery.***
 - Now found on the Steel Ribbon tab.
 - Also on the Structure Tab.
 - 130 no standard connections
 - **Transfer as part of the SMLX.** (We see the new “steel Fabrication format” come into play.



[Revit Structural connections help](#)

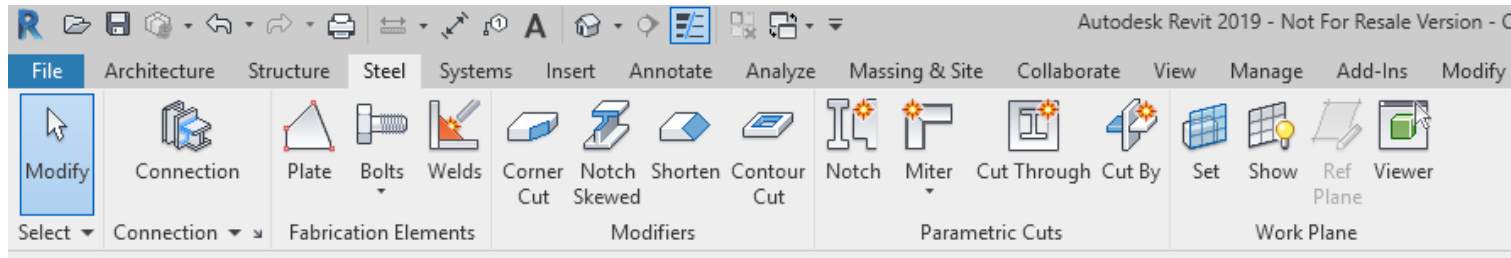
Revit Steel Tools 2019

New Tools and Transfer Method.

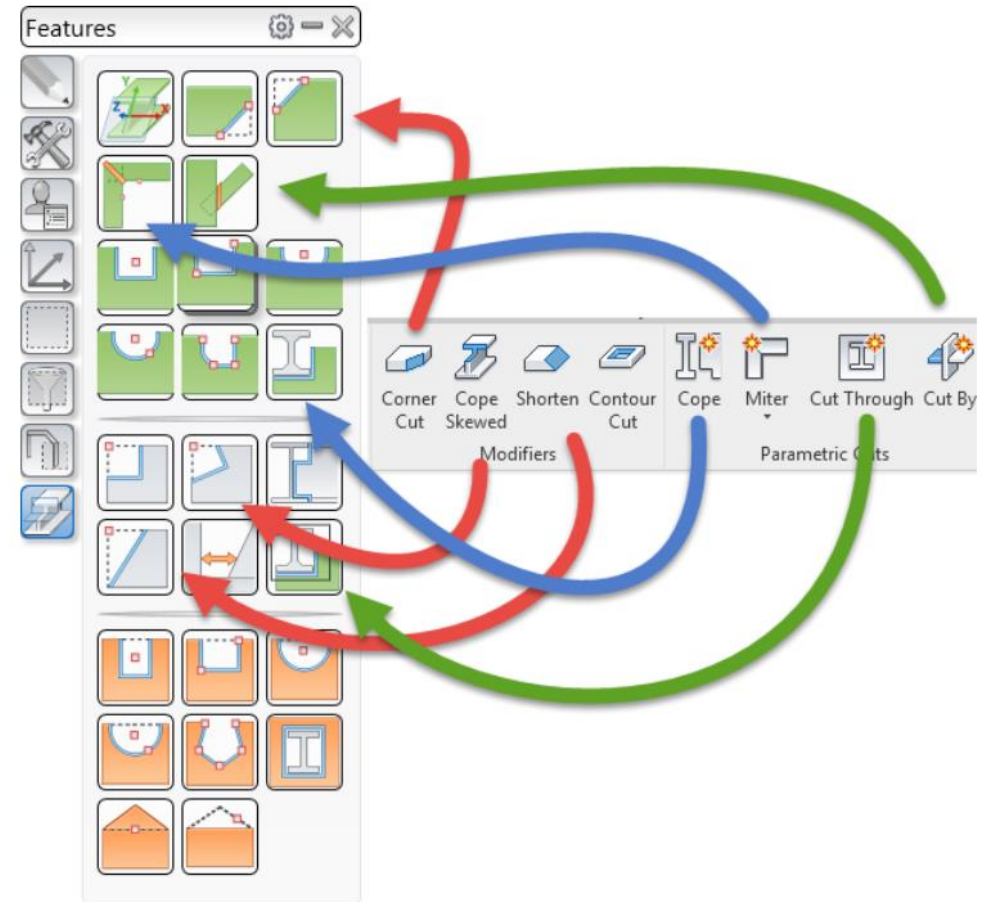
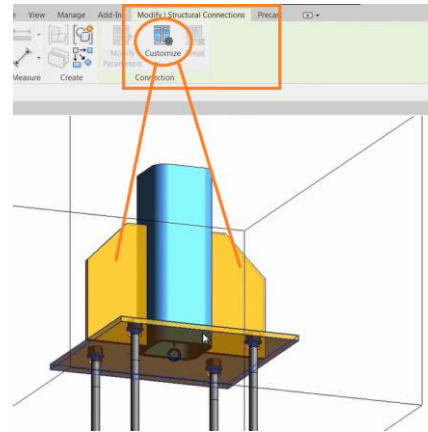
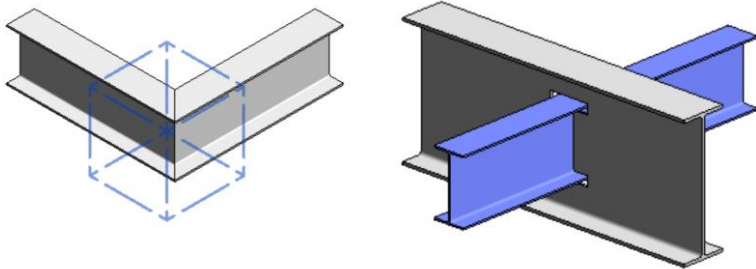


Revit – Steel Tools - 2019

STEEL TOOLS 2019



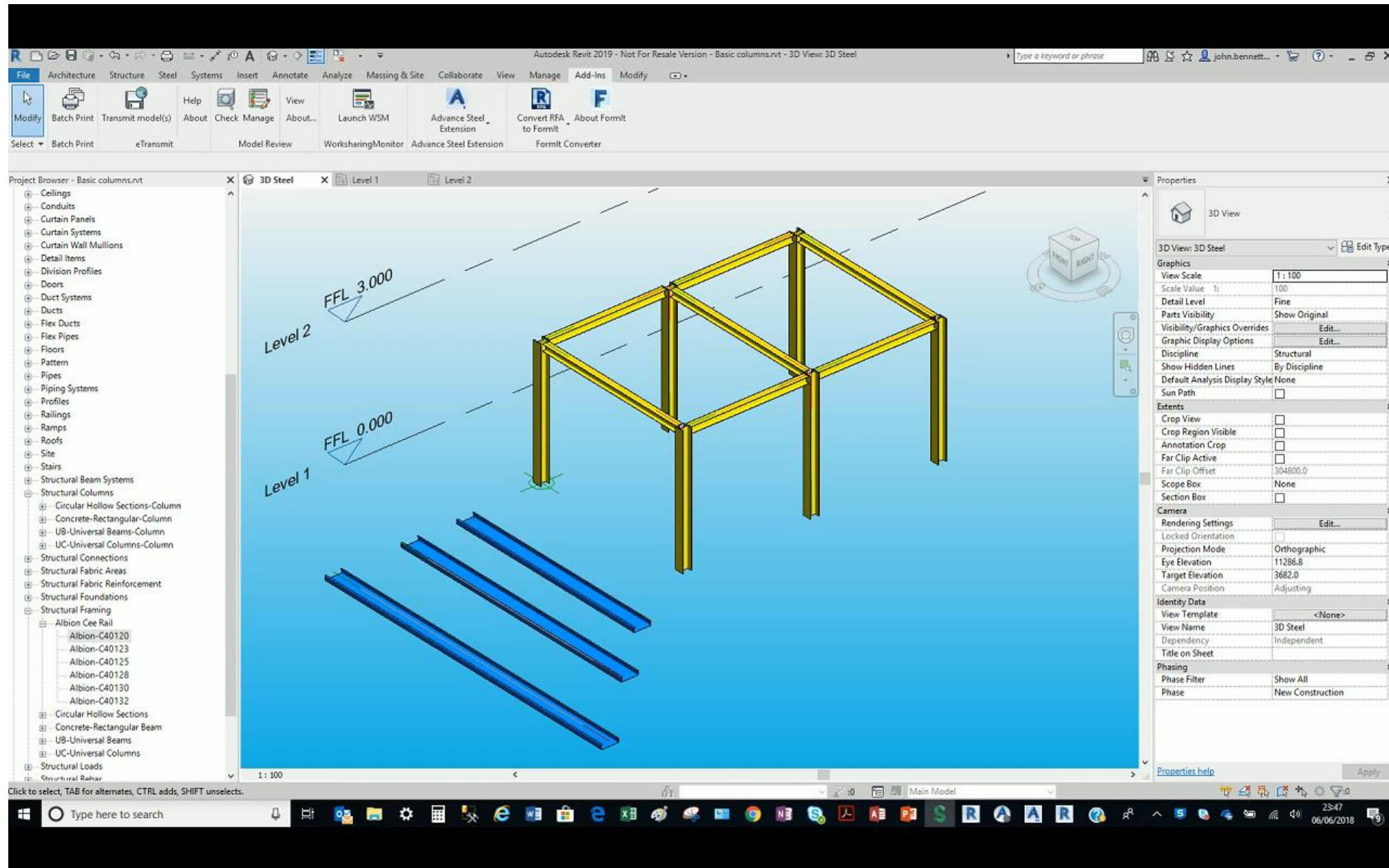
- New Steel Ribbon. With Tools for Notch (Cope), Miter, shorten, and many other options
- Revit Elements change when using these Tools to **Steel Fabrication format.**
- With 2019, these New tools, replicate the tools that we already have inside AS, a clear message for connection collaboration.
- Also the Ability for custom connections now added via this new development.



Tip : Blog post, Grumpy's Article on LinkedIn.

[Graitec Blog - New tools in Revit 2019](#) , [Stephan's LinkedIn Article](#)

Revit to AS – Steel Fabrication Format



Revit 2019

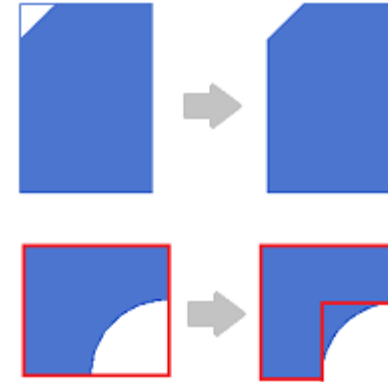
Steel Fabrication Transfer.



Revit – Steel Fabrication Element Transfer.

STEEL FABRICATION TRANSFER METHOD 2019

- With 2019, The Copes/Cuts/Shortens are now transfer via the Steel fabrication elements. This is taken into the SMLX via this format.
- This works with the Steel Fabrication Format, transferring the Structural Beams as the Steel fabrication Shape into Advance Steel With the Connections.



Note: Any structural framing or column, exported from Revit or Advance Steel that has an associated cut in the SMLX file, will be imported in Revit as a structural framing or column with a [Steel fabrication shape](#).

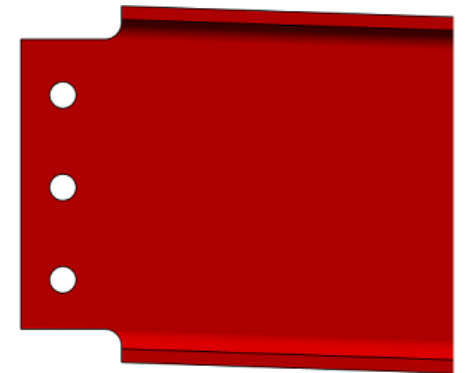
[Revit 2019 Supported Structural Steel Shapes and Families for Steel Fabrication](#)

[Revit 2018 Supported Structural Steel Shapes and Families for Steel Fabrication](#)

Note: the 2018 method is Different, the supported list is different, this is a new approach in 2019.

Tip : Note that this is New format for 2019, SMLX is different structure in 2019 to accommodate the change in Shape format and connections. Note fabrication shape displays the exact shape of the element and the process of creating it is irreversible

[Steel Fabrication Element Transfer](#)



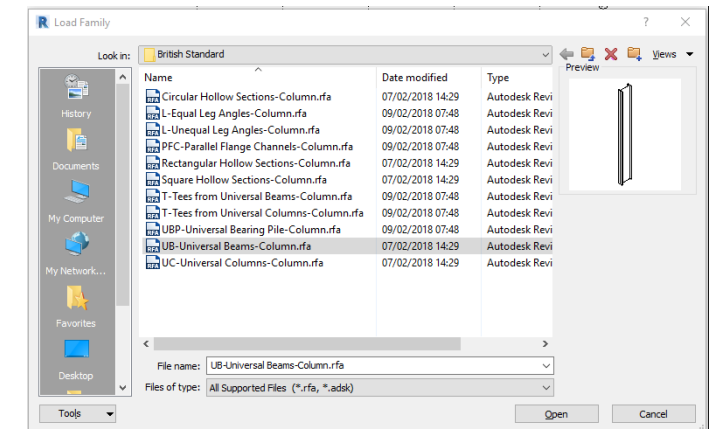
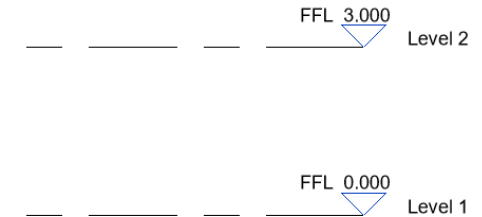
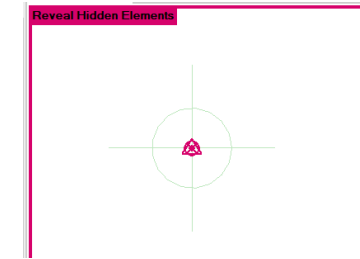
Revit 2019/ Advance Steel 2019 Template Ideas for Modelling.



Revit – Template Ideas. Slide 1.1

TEMPLATE : CREATION ELEMENTS

- **Origin** - In AS, try to model about the 0,0,0. modelling in Revit at this reference makes the transfer easier.
- **Levels**
 - Use them, place beam on them, they are transferred providing they have Beams elements on them
 - Try not to use large offsets for beams, affects in the transfer.
- **Grids**
 - **Transferable**, but watch if coming from AS, as you only need the level 1, multi levels used in AS, can lead to confusion.
- **Steel Sections/Families**
 - C:\ProgramData\Autodesk\RVT 2019\Libraries\UK\Structural Framing\Steel\British Standard
 - Personal View –load the correct country libraries, all of them, just makes it easier to model steel in Revit.



Revit – Template Ideas. – Slide 1.2

TEMPLATE : CREATION ELEMENTS

- **Steel Connections** - just load them all, is easier, then use search feature.
- **Steel Materials** – there are some in the system, by default Revit is mapped to AS via the AEC materials, but you can add you own, If you have access to steel guide then look, if New materials, Create the same in AS.
- **Colours** - Revit is different to AS, New users need to get to grip with materials and also Visual graphics and the overrides.
 - Personal view, try to make the steel and connection elements different base colours, just helps to see them in model.
 - When creating materials, use this as the basis to change the colour for steel, if working with AS, try to match what you would expect to see.

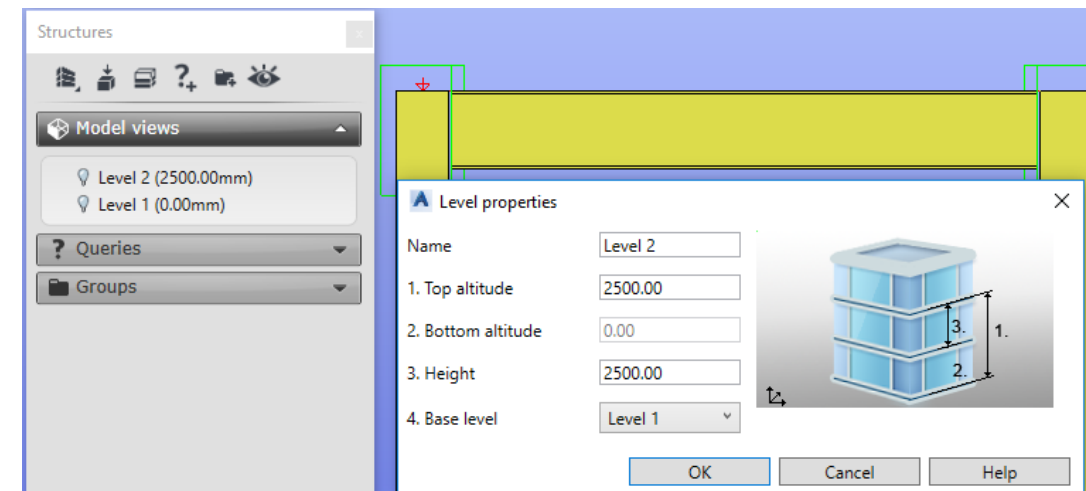
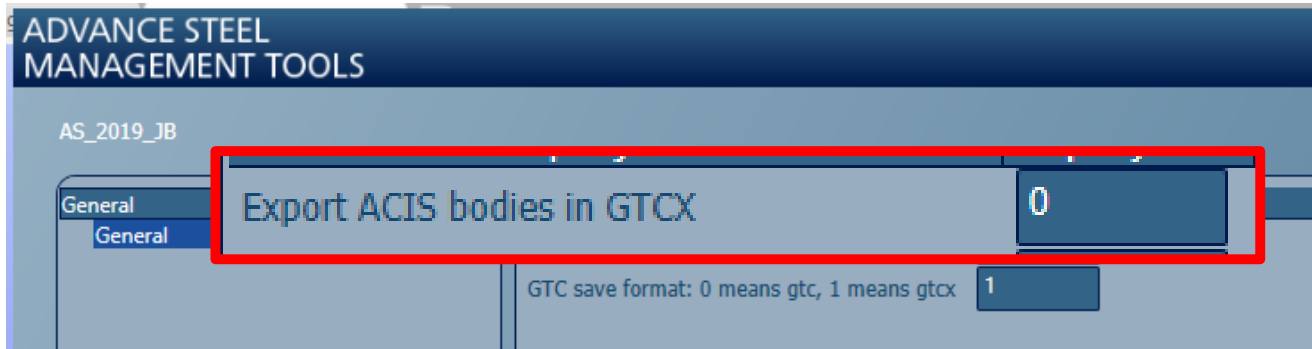
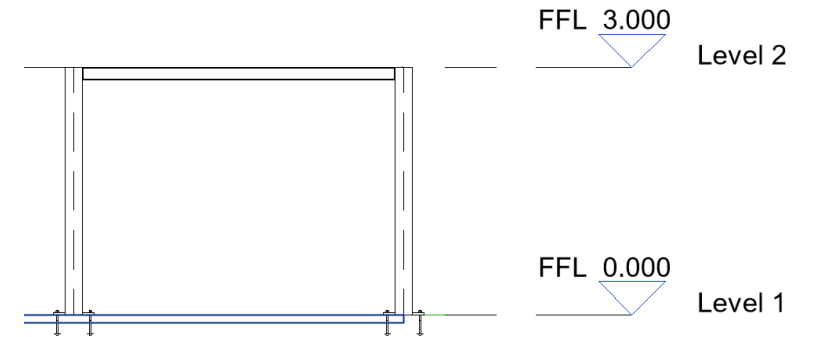
Tip: when you create your template, then add it to you list of preferred templates, so selection and use is easier.

[Revit Help - Setting you default template adding to list](#)

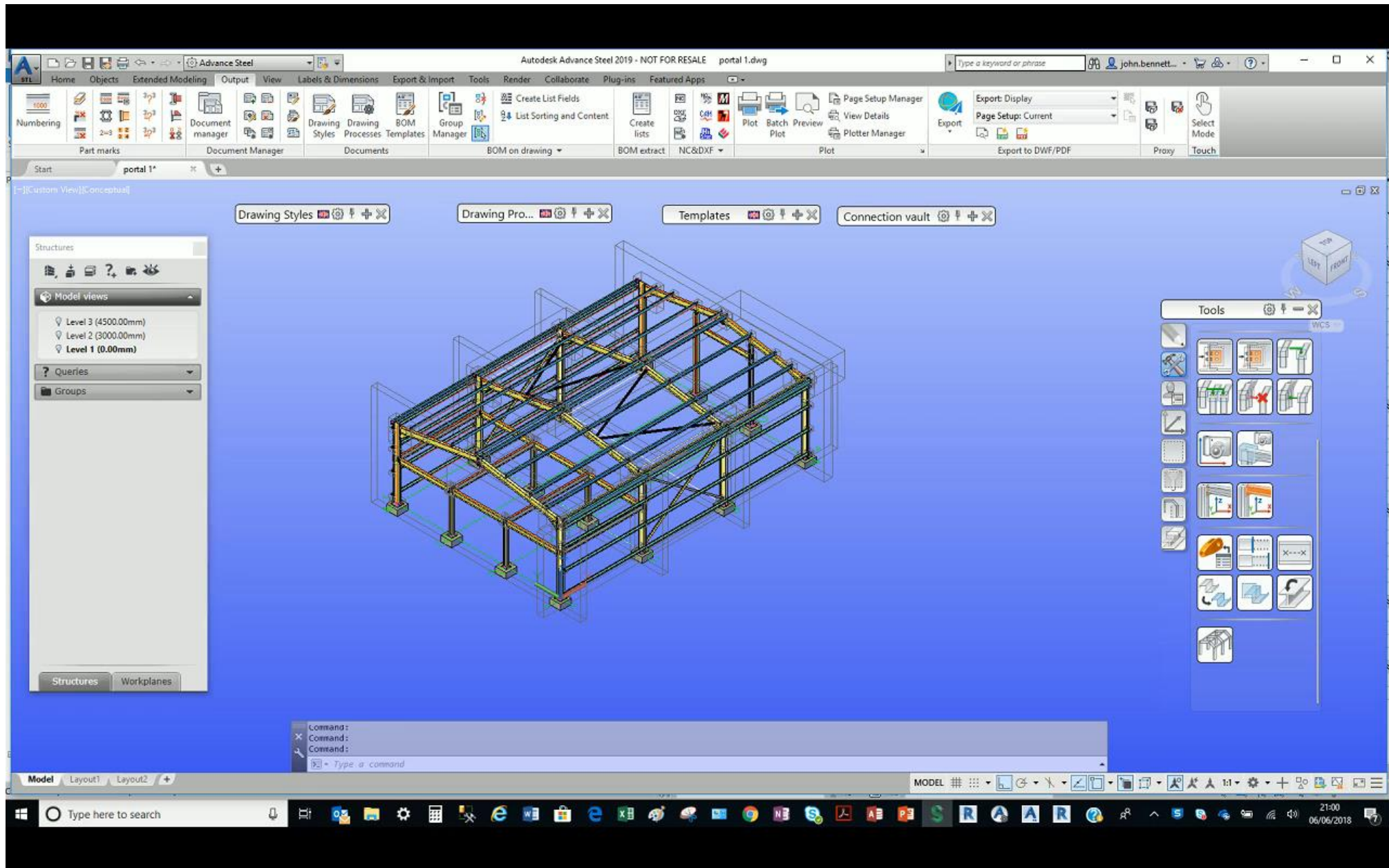
Advance Steel – Model Settings – Slide 1.1

MANAGEMENT TOOL SETTINGS

- **GTC AS Defaults Settings-** Change this (UK) so you do not need to number the model before the export.
- **AS Levels**– Use levels in the project explorer, if working with Revit, attach beams to levels, the levels are transferred into Revit.
- **Origin** - In AS try to start your model at the WCS , 0,0,0 position, this helps when transferring to Revit. As the levels are based around that reference point.



AS to Revit – SMLX Transfer.





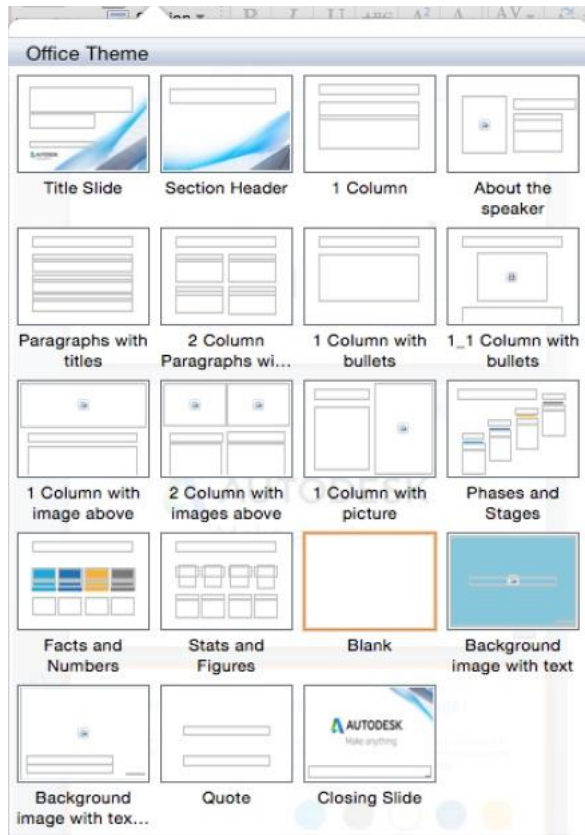
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Instructions and resources (Delete page)

- Access the slide layouts for this template on the Home tab under Slides/Layout.



- AU 2018 Fonts: We recommend downloading our [Artifakt](#) font if you do not already have it on your machine. Please use Arial as a backup font when Artifakt is unavailable.

- AU 2018 Colors



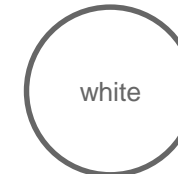
ADK Blue

R 6 G 150 B 215
HEX: 0696D7



Gray

R 102 G 102 B 102
HEX: 666666



white

R 255 G 255 B 255
HEX: FFFFFFFF



Dark blue

R 24 G 88 B 168
HEX: 1858A8



Orange

R 250 G 162 B 27
HEX: FAA21B

- AU Resources

- Images and video content – [DAM](#)
- Branding and editorial guidelines – [Brand Hub](#)

Main Title – 1 column with bullets

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- First-level bullet: closed circle. Text style: gray, 1.4 spaced, Artifakt Element 30pt font.
 - Second-level bullet: open circle. Text style: gray, 1.4 spaced, Artifakt Element 30pt font.
 - Third-level bullet: closed square. Text style: gray, 1.4 spaced, Artifakt Element 30pt font.

Main Title – 2 column bullets

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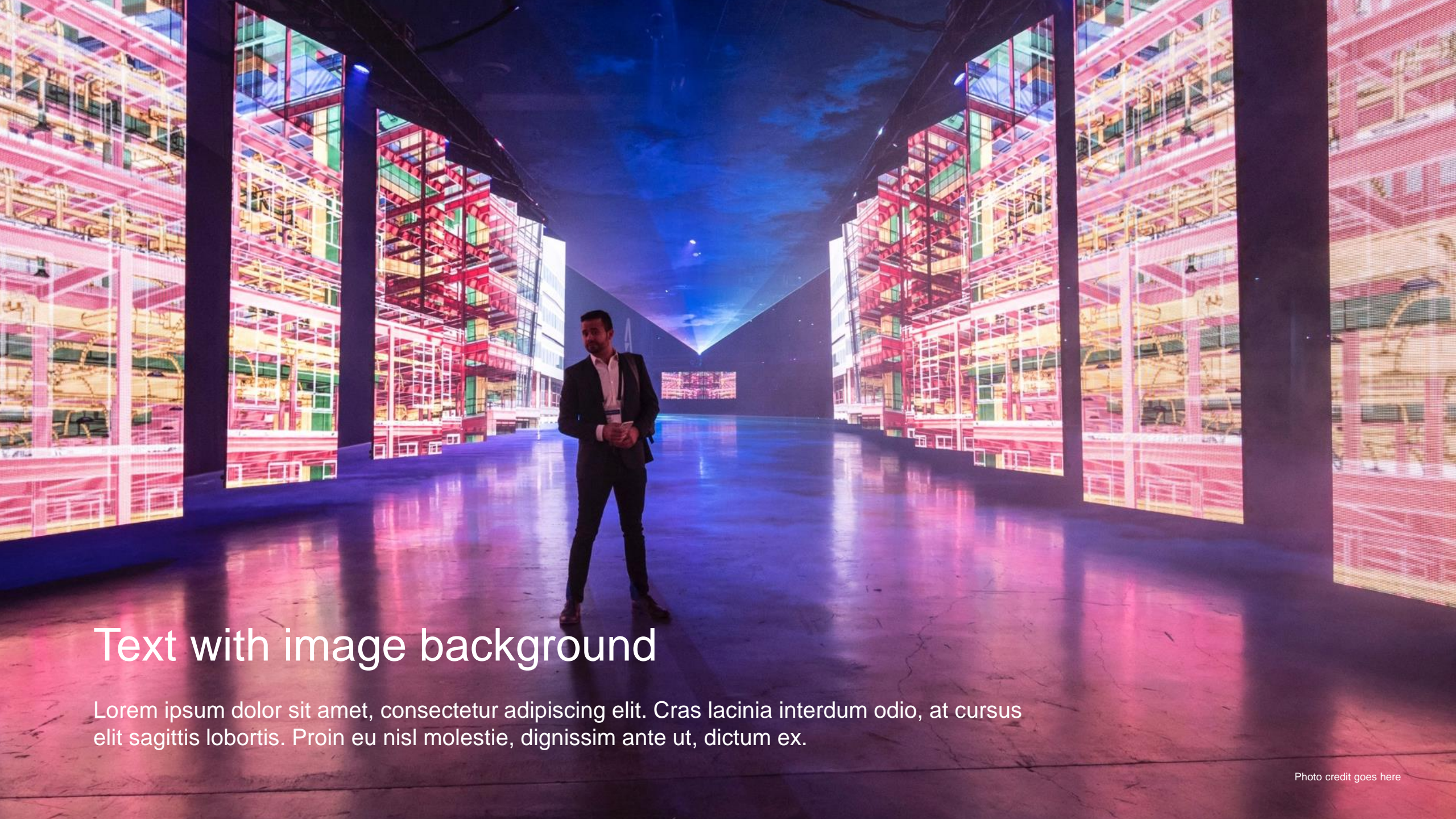


Title 2

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The image shows a large audience seated in a conference hall, facing a stage. The stage features multiple large screens displaying a presentation. The audience is seen from behind, filling the foreground. The stage is illuminated by several spotlights, and the screens show a man in a suit speaking. The background of the screens depicts a mountainous landscape with a silhouette of a person jumping. The entire image has a blue tint.

Text with image
background



Text with image background

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Main title – video page



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This is where a
keyword or important
quote could go

ATTRIBUTION

Facts & Numbers

97

CLIENTS

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PROJECTS

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58

APPS

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12

WEBSITES

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Phases/Stages

STAGE A

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STAGE B

YOUR TITLE

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STAGE C

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STAGE D

YOUR TITLE

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Stats & figures



WRITE HERE

Right click on the chart for an excel spreadsheet to populate your figures and automatically update this chart



WRITE HERE

Right click on the chart for an excel spreadsheet to populate your figures and automatically update this chart



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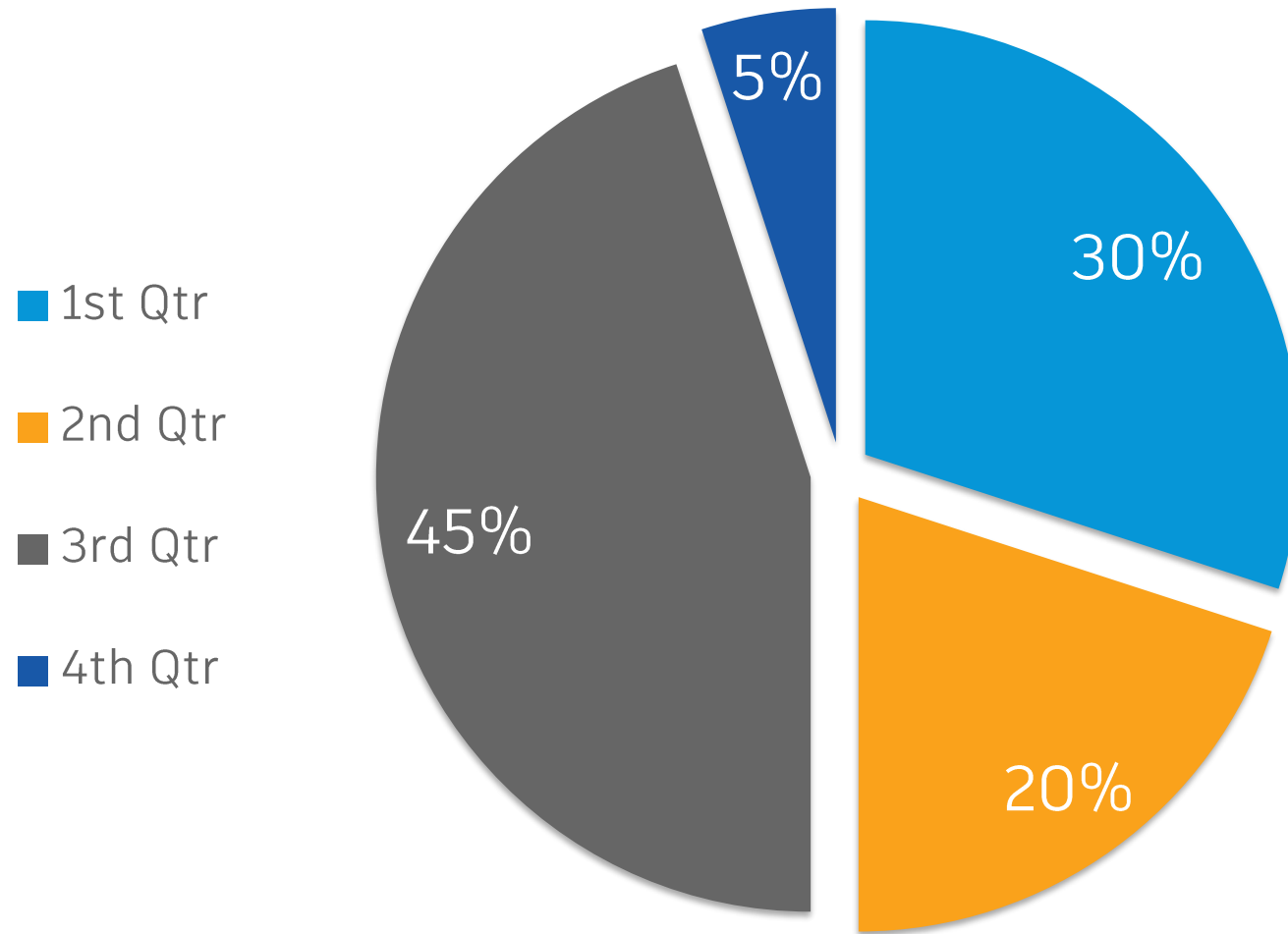
Right click on the chart for an excel spreadsheet to populate your figures and automatically update this chart



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Pie chart



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Bar graphs

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