

# **Steel Detailing Requirements – Example**

#### Files required for FabStation

- 1. All drawings to be submitted in .PDF format separated into folders by page size
  - a. 8x11 = Sub-parts, omit all main part of assembly drawings from this folder, all dimensions and marks will be show on the assembly drawing.
  - b. 11x17 = Assemblies
  - c. 24x36 = Assemblies
  - d. File names to match the part or assembly number.
- 2. Fabtrol/KISS file .kss file format for all assemblies.
- 3. .ifc file export of the whole model, in Tekla, Export IFC, Export type = Steel Fabrication View
- 4. Visit: https://kb.fabstation.ca/knowledge-base/tekla-export/ for more details on the structure of the export.
- 5. See Appendix 1 for more details on the use of the Assembly Exporter required for IFC file export.



## **APPENDIX 1**

### Export Project IFC - Tekla Structures

To export the complete project IFC file from Tekla Structures follow the below guidelines:

- Output file Select the desired location of the output file and file name. We suggest using the project name in the file
- File Format "IFC"
- Export Type "Steel Fabrication View"

Select the "Advanced" tab to review the additional settings.

Save Load standard	▼ Save As		Help
Parameters Advanced			
Output file	.\IFC\out		
File format	IFC	-	
Export type	Steel fabrication view		
Additional property sets	Trimble Connect	-	Edit
Export	Selected objects	-	
Location by	Model origin	-	
1		View Log F	
Export		Cancel	



On the "Advanced" tab select:

- Object Types
  - $\circ$  Assemblies
  - o Bolts
  - o Grid
  - Surface treatments and surfaces
- Other
  - $\circ~$  Export at and wide beams as plates
  - Spatial hierarchy from Organizer

Once complete, select "Export" to export the project IFC

There is a good walkthrough video on YouTube if you are unsure of this process: https://www.youtube.com/watch?v=rBwA8JVBy6A

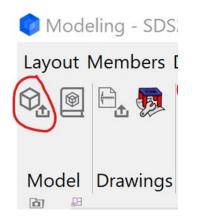
F Export to IFC		- • ×		
Save Load standard	✓ Save As	Help		
Parameters Advanced				
Object types				
Assemblies	V	Grid		
Bolts	<b></b>	Reinforcing bars		
🕅 Welds		Surface treatments and surfaces		
Property sets				
Base quantities				
Property sets Del	fault 🔹	View		
Other		J		
□ Layers names as part names       □ Exclude single part assemblies         ☑ Export flat and wide beams as plates       □ Use current view colors         ☑ Spatial hierarchy from Organizer				
		View Log File		
Export		Cancel		
status				



### Export Project IFC – SDS2

To export the project IFC file from SDS2 follow the below guidelines:

- Select the Import/Export Tab
- Under "Model" Select "Export Model"



- Export file format should be IFC2x3
- Destination Select the desired location of the output file and file name. We suggest using the project name in the file
- Select the "Properties" button to review the additional settings.
- Select "Export holes"

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$\wedge$		IFC2x3 Properties - SampleJob SampleFabr ×		
$\times$		□Export <u>z</u> ipped file		
	$X \times A$	□Export <u>w</u> elds		
$\sim$				
		Export <u>b</u> olts		
		Export Autodesk®-compatible IFC files		
		Export StruMIS®-compatible IFC files		
		□ Split into stories by zone & sequence		
Export Model - Sam	npleJob SampleFabricator	× Export center of mass location (time consuming)		
Export file format:	IFC2x3 Propert	Export custom properties		
Destination:	Directory Chang	Export log as custom property		
Log file nam <u>e</u> :	SampleJob_log.txt  Export grids within 10-0 of model			
Output file name:	SampleJob.ifc	Export task scheduling info		
	OK Cancel <u>R</u> eset <u>H</u> e	XML file:		
	OK Cancel <u>R</u> eset <u>n</u> e	Origin <u>T</u> ranslation:		
		<u>X:</u> 0		
		<u>Y</u> : 0		
		<u>Z</u> : 0		
		Rotate CCW about Z axis:		
		0 degrees		
		OK Cancel <u>H</u> elp		



To export the project KSS file from SDS2 follow the below guidelines:

- Select the Import/Export TabUnder "MRP" Select "KISS"
- Select the desired destination and KISS folder name.

