# TEKLA BASECAMP

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**Estimodeling Workflows** 



### **Estimodeling Workflows**

- Tekla PowerFab
  - Tekla EPM
  - Tekla EPM Go
  - Trimble Connect
  - Tekla EPM Modeler
- EPM Modeler
  - Parts (Beams, columns, bracing, etc)
  - Connections (Plate, angle, bolts, welds)
  - Reports

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- Project Management tools

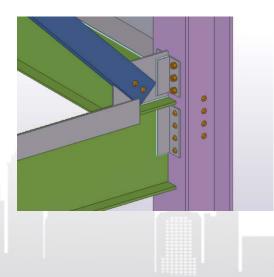


- 3D model for
  - Estimating
  - Reports
  - Sequencing
  - Planning/Scheduling

### Why model-based estimating?

- Automatically populate material takeoffs
  - WYSIWYG; beams, columns, plate, decking, bolts, welds
  - Model as basic or detailed as you want
- Visualize complex framing
- Identify potential issues earlier
- Model can be passed to detailing/production for use or reference

341	Page Part#	tern	Comment	City	Shape	Dimension	Length	Grade	Type	Category	Extra	Holes	rinah	Pot System	Camber
м	1	10	-A0(7)	1	W	16 x 26	28'-7	A992	A.	BEAM		0	PNT		
	. 1	20	-	2	MS	3/4 x 0'-1 3/4		A325N		BEAM	1	0	PNT	12	
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	1	170	-p0(7)	1	FB	3/16 x 2	0-4	A36	A	BEAM			PHIT		





### **Methods**

- Traditional create using designs as a guide
- Tracing import documents (PDF, DWG/DXF) and model over linework to generate 3D model
- Model import IFC
  - Not all IFC models can be converted ask for 'coordination view'



#### **Tools that can help**

Create grid from parts

 Also works on the IFC file
 GridFromParts

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- Magnetic construction objects
- Organizer Review and edit converted parts
- Base plate applicator quickly apply to all
  - Autoconnection Create AutoConnections
    - For design, use partners like Qnect or GIZA





Construction object

Line

Plane



BasePlateApplicator

## Things to watch for

- IFC not be 'surface geometry' or 'reference' IFC4
- Material grades often missing or incorrect
- Outside IFC connection material does not transfer to Tekla Structures (bolts, welds)
- Naming of objects important for better workflow





Location by

Model origin

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