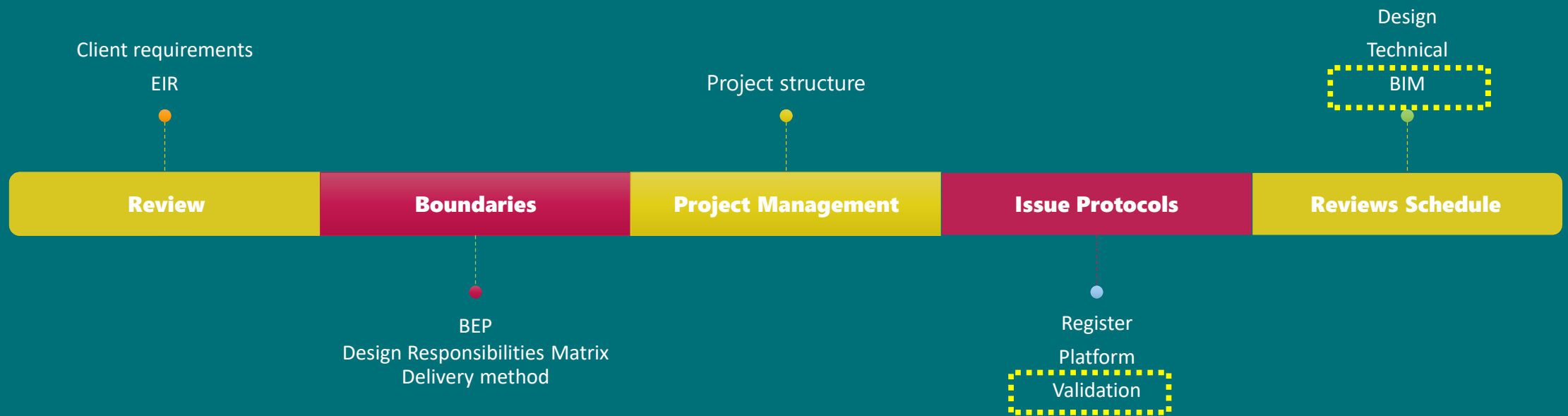
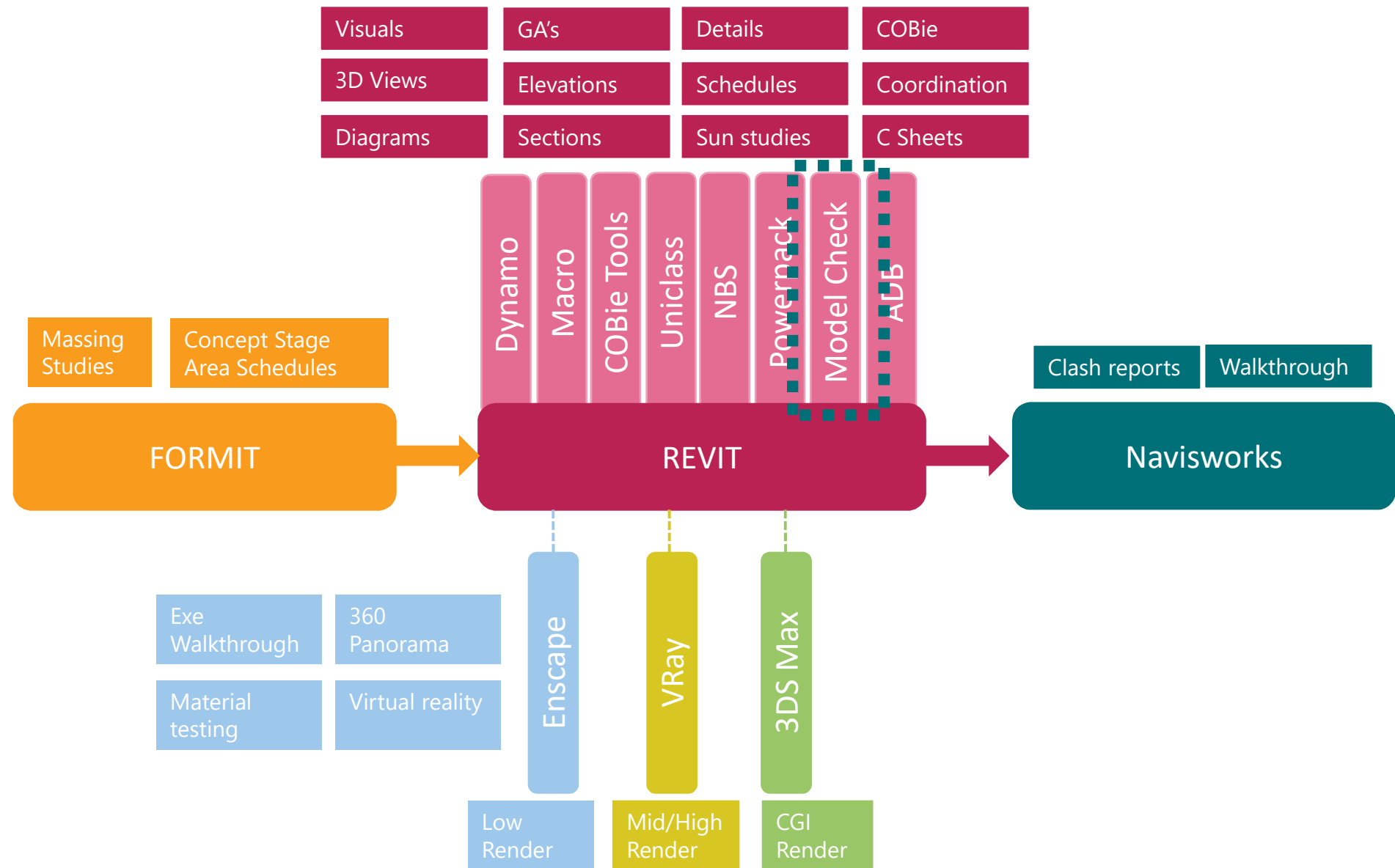


# REVIT MODEL CHECKER

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# BS EN ISO 19650 CERTIFICATION

“Each task team shall undertake a quality assurance check of each information container, in accordance with the project’s information production methods and procedures, prior to undertaking a review of the information within it (5.6.4). In doing this, the task team shall check the information container in accordance with the project’s information standard. Once the check is complete, the task team shall:

- a) if the check is successful:
  - mark the information container as checked, and
  - record the outcome of the check; or
- b) if the check is unsuccessful:
  - **reject** the information container, and
  - **inform the information author of the outcome and corrective action required.** “

In order to achieve ISO 19650 certification:

- Have a record of regularly checking models
- The outcomes of the checks (HTML report)
- How we are using this information to make changes to our models

In accordance with the project’s information production methods and procedures, each task team shall undertake a review of the information within the information container prior to sharing within the project’s common data environment. In doing this, the task team shall consider:

- the lead appointed party’s information requirements;
- the level of information need; and
- information needed for coordination by other task teams.

Once the review is complete, the task team shall:

- a) if the review is successful:
  - assign the suitability for which the information contained within the information container can be used, and
  - approve the information container for sharing;
- b) if the review is unsuccessful:
  - **record** why the review was unsuccessful,
  - **record any amendments** for the task team to complete, and
  - **reject** the information container.



# VALIDATION PROCESS

---

# VALIDATION WORKFLOW

- Create a suitably dated folder within the Shared folder
- Standards & Good Practice checks carried out
- Revision added to splash sheet
- Ensure everyone working on project performs a "Save to Central" and "Relinquish All"
- Save a detached copy of the model into the previously created folder
- Remove any Revit/ CAD links, Images, Schedules, Views & Sheets (non required)
- Purge Model
- "Synchronise to Central" and close model

Keppie	CAD and BIM Systems Revit Model Validation Checklist	Ref.	Rev.
		KEP-XXX-XX-XX-A-9030-0007	4.0

The content included in this Checklist is based on PAS 1192-2:2013 **Figure 16** – Architect’s issue to SHARED, but has been augmented with additional guidance and clarification of the Validation sequence. This checklist should be used in conjunction with the project BIM Execution Plan and the Keppie Design “Revit Standards and Procedures document”.

Revit File Details	
Model Name	OR4100-1-IHG-EGE-MOD-3510004_Departments
Date	07.08.2019
Prepared By	SO
Approved By	
Validation Purpose	Work <u>In</u> Progress Issue

Model Preparation provides a guide for preparing the model prior to validation. The list can also be referred to for continued model management.

### Model Preparation

Create a suitably dated and titled destination folder in 02_SharedBIM_Models	<input checked="" type="checkbox"/>
Check model file name conforms to Keppie Standards	<input checked="" type="checkbox"/>
Review and fix all warning messages where possible	<input checked="" type="checkbox"/>
Check that all families conform to Keppie naming conventions	<input checked="" type="checkbox"/>
Check Line Styles and Patterns conform to Keppie naming conventions	<input checked="" type="checkbox"/>
Check that all content is in the correct Workset and conforms to Keppie Standards	<input checked="" type="checkbox"/>
Check model is correctly assembled through visual inspection for stage completeness	<input checked="" type="checkbox"/>
Check model for dimensional accuracy <ul style="list-style-type: none"><li>- Check project base point matches coordinates on splash sheet</li><li>- Check model is sitting at correct rotation, position and height on site</li></ul>	<input checked="" type="checkbox"/>
Check correct use of Phasing / Design Options if necessary	<input checked="" type="checkbox"/>
Change model suitability to S1 (suitable for coordination)	<input checked="" type="checkbox"/>
Check COBie data against stage completeness project BEP requirements	<input type="checkbox"/>
Set revision on Model file & on Starting View, adding any guidance notes for recipients if necessary	<input checked="" type="checkbox"/>
Print the Starting View as PDF and save a copy for project records and to accompany the issue	<input checked="" type="checkbox"/>

# STANDARDS CHECKS

- ✓ Check model file name conforms to project standards
- ✓ Check that all families conform to project naming conventions
- ✓ Check Line Styles and Patterns conform to project naming conventions

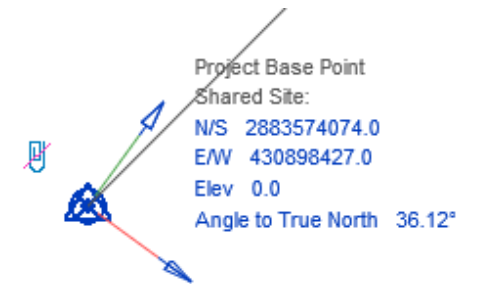
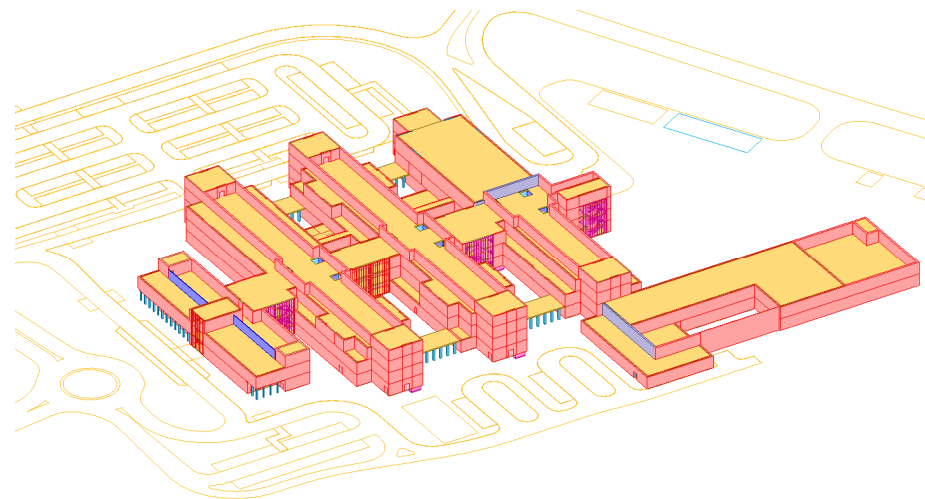
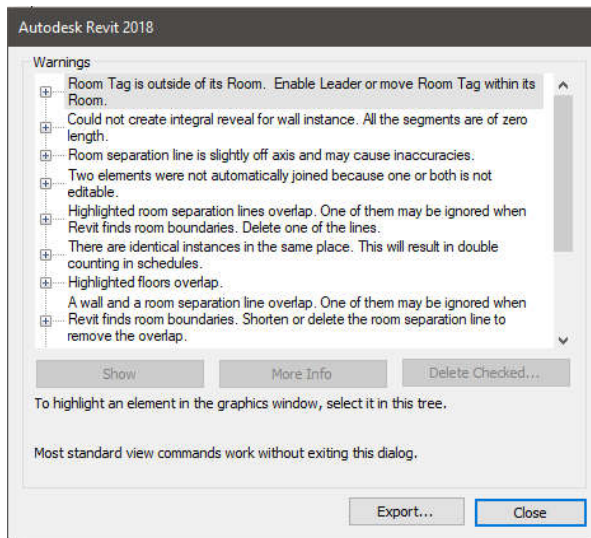
Category	Line Weight	Line Color	Line Pattern
	Projection		
.....KEP_1_Black_DashDot_1.5	1	Black	KEP_DashDot_1.5
.....KEP_1_Black_Solid	1	Black	Solid
.....KEP_1_Blue_Solid	1	Blue	Solid
.....KEP_1_Brown_G.DetailLi...	1	RGB 130-086-068	Solid
.....KEP_1_Cyan_Solid	1	Cyan	Solid
.....KEP_1_Green_Solid	1	Green	Solid
.....KEP_1_Grey(Dark)_Dash	1	RGB 128-128-128	Dash
.....KEP_1_Grey(Dark)_Solid	1	RGB 128-128-128	Solid
.....KEP_1_Grey(Light)_Solid	1	RGB 220-220-220	Solid
.....KEP_1_Grey(Mid)_DashD...	1	RGB 192-192-192	KEP_DashDot_1.5
.....KEP_1_Grey(Mid)_Solid	1	RGB 150-150-150	Solid
.....KEP_1_Grey_Dash-0.6	1	RGB 180-180-180	KEP_Dash_0.6
.....KEP_1_Magenta_Solid	1	Magenta	Solid
.....KEP_1_Purple_Solid	1	RGB 128-000-255	Solid
.....KEP_1_Red_Solid	1	Red	Solid
.....KEP_1_Solid_Black	1	Black	Solid
.....KEP_1_Yellow_Solid	1	Yellow	Solid
.....KEP_3_Black_Solid	3	Black	Solid

Walls	
Basic Wall	
A-2510-CW-1E-300-Concrete	
A-2510-CW-2I-200-Concrete	
A-2510-CW-3A-300-Concrete	
A-2510-CW-4A-305-Concrete	
A-2510-CW-5A-355-Concrete	
A-2510-CW-6A-360-Concrete	
A-2510-EW-1A-710-Generic	
A-2510-EW-2E-710-Generic	
A-2510-EW-4A-410-Generic	
A-2510-IW-2A-200	
A-2510-IW-L1-85mm	
A-2510-IW-L2-200	
A-2510-IW-S1-140	
A-2510_EW_1_570_Generic	
A-2510_IW_1_130mm_57dB	
A-2510_IW_6_135mm_57dB_Lead Protection	
A-2510_IW_8_200mm_Precast	
A-2510_IW_L1_85mm	
A-2510_IW_L2_50mm	
A-2510_IW_L3_65mm	
A-2510_IW_1_130mm_57dB	

Doors	
A-2530_Curtain_Door_2-Leaf_Sliding	
A-2530_Door-Sectional	
A-2530_Door_Ext-Dbl-Blnk-Eq	
A-2530_Door_Ext-Dbl-Lvr	
A-2530_Door_Ext-Dbl-Vsn-Pnl	
A-2530_Door_Ext-Dbl-Vsn-Pnl-Uneq	
A-2530_Door_Ext-Sgl-Blnk	
A-2530_Door_Ext-Sgl-Vsn-Pnl	
A-2530_Door_Ext_Louvre_Single	
A-2530_Doors_Dbl_Glass_1	
A-2530_ExtDoor_DblPlain	
A-2530_ExtDoor_SlidingCurtainPanel	
A-2530_Int_DblGlazedOP	
A-2530_Int_DblUnequalPlain	
A-2530_Int_SglPlainOP_NF	

# GOOD PRACTICE CHECKS

- ✓ Reviewing warning count
- ✓ Check all content is on the correct workset
- ✓ Check model is correctly assembled through visual inspection for stage completeness
- ✓ Check model for dimensional accuracy

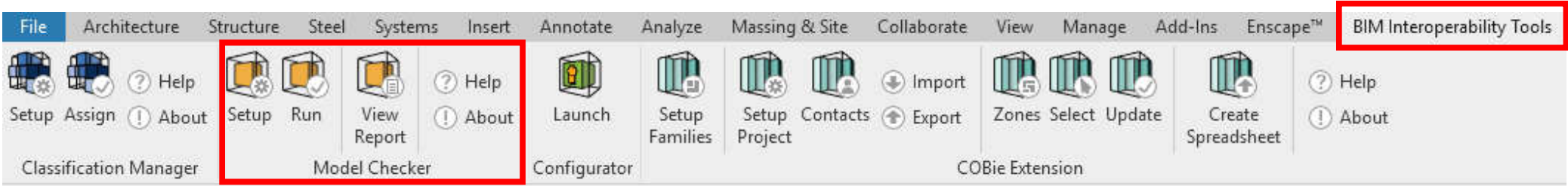




# MODEL CHECKER OUTPUT

---

# MODEL CHECKER



☒ Keppie BIM Standards

- ☒ Model General
- ☒ Model Content

☒ Views

- ☒ View Naming

☒ Sheets

- ☒ Sheet Naming

☒ Workset Checks

- ☒ Worksets

☒ Identity Data

- ☒ Room Checks

Model General

☒ Revit Version - OPTIONAL

☒ File Name - OPTIONAL  
Keppie Standard Model Naming

☒ File Size - OPTIONAL

☒ Warning Count - OPTIONAL

☒ Project Coordinates - OPTIONAL

☒ Keppie BIM Standards

- ☒ Model General
- ☒ Model Content

☒ Views

- ☒ View Naming

☒ Sheets

- ☒ Sheet Naming

☒ Workset Checks

- ☒ Worksets

☒ Identity Data

- ☒ Room Checks

Model Content

☒ Object Styles - OPTIONAL

☒ Text notes on sheets - REQUIRED  
Finds text notes on sheet views

☒ Line Styles - OPTIONAL

☒ Text notes location - REQUIRED

☒ Raster Images - OPTIONAL

☒ Linked CAD - OPTIONAL

## Running the checks

# GENERAL CHECKS

- Checks file name meets standards
- Reviews file size of model
- Reviewing warning count
- Lists project base point co-ordinates which can be checked against the splash sheet/ BEP

Keppie BIM Standards

19 Checks, 1 (100%) Pass, 0 Fail, 18 Count/List

Model General

5 Checks, 1 (100%) Pass, 0 Fail, 4 Count/List

Revit Version - OPTIONAL

Result: Autodesk Revit 2019 20180927\_2315(x64)

File Name - OPTIONAL

Keppie Standard Model Naming

File Size - OPTIONAL

Result: 16.25 MB

Warning Count - OPTIONAL

Count: 12

Highlighted lines overlap. Lines may not form closed loops.

Highlighted lines overlap. Lines may not form closed loops.

Highlighted lines overlap. Lines may not form closed loops.

Highlighted lines overlap. Lines may not form closed loops.

Highlighted walls are attached to, but miss, the highlighted targets.

Highlighted walls are attached to, but miss, the highlighted targets.

Highlighted walls are attached to, but miss, the highlighted targets.

Line in Sketch is slightly off axis and may cause inaccuracies.

Ref Plane is slightly off axis and may cause inaccuracies.

Ref Plane is slightly off axis and may cause inaccuracies.

The rail is not continuous. Breaks in the rail usually occur at sharply-angled transitions. To fix the problem, try: - Changing the transition style in the rail type properties, or - Modifying the railing path at the transition.

The rail is not continuous. Breaks in the rail usually occur at sharply-angled transitions. To fix the problem, try: - Changing the transition style in the rail type properties, or - Modifying the railing path at the transition.

Project Coordinates - OPTIONAL

Count: 5

Name	Value
Project Base Point Coordinate	255650000 E/W   664550000 N/S
Project Base Point Elevation	0
Project Base Point Rotation	18.52°
Survey Point Coordinate	255650000 E/W   664550000 N/S
Survey Point Elevation	0

# MODEL CHECKS

- Number of unused elements within model
- Lists names of object styles imported from CAD etc, & need deleted
- Number of text notes in model
- Lists names of line styles to check they meet naming standards

Unused Elements - OPTIONAL  
Count: 346

Object Styles - OPTIONAL  
Count: 67

PM\_G01200\_Inland\_Water\_Area

PM\_G01210\_Inland\_Water\_Line

PM\_G01220\_Inland\_Water\_Point

PM\_G01222\_Inland\_Water\_Symbol

PM\_G01230\_Inland\_Water\_Text

PM\_G01240\_Landform\_Area

PM\_G01250\_Landform\_Line

PM\_G01260\_Landform\_Point

PM\_G01270\_Landform\_Text

PM\_G01280\_Natural\_Environment\_Area

PM\_G01310\_Natural\_Environment\_Text

PM\_G01320\_Path\_Area

PM\_G01330\_Path\_Line

Text notes on sheets - REQUIRED  
Finds text notes on sheet views  
Count: 204

Line Styles - OPTIONAL  
Count: 33

Name

Axis of Rotation

G.DetailLineStyle

Hidden Lines

Insulation Batting Lines

KEP\_1\_Black\_Dash

KEP\_1\_Black\_Solid

KEP\_1\_Blue\_Solid

KEP\_1\_Cyan\_Solid

KEP\_1\_Green\_Solid

KEP\_1\_Grey(Dark)\_Solid

KEP\_1\_Grey(Light)\_Solid

# MODEL CHECKS

- Number of images within the model which may need to be removed
- Linked CAD files which will may need to be deleted before issue
- Imported CAD files which may need to be deleted
- Largest families within the model which may need reviewed to bring down file size

Raster Images - OPTIONAL

Count: 2

Name
Raster Images : 214016 - Detailing Precedent MASTER - DO NOT DELETE.jpg
Raster Images : A-7000_StatusRevisionTable.JPG

Linked CAD - OPTIONAL

Count: 1

Name
P19-013_OSMMap.DWG : Type : P19-013_OSMMap.DWG

Pinned Links - OPTIONAL

Count: 0

Shared Parameters File - OPTIONAL

Count: 0

Largest Families - OPTIONAL

Result: 17,960 KB

Name	Value
A-2530_IntDoor_DblPlain	720 KB
A-2530_IntDoor_DblUnequalPlain	696 KB
A-2530_IntDoor_SglPlain	696 KB
A-2530_Door_Curtain_Panels-360-Door	592 KB
Doors_ExtDbl_Flush_Fire_Escape	484 KB
Doors_ExtSgl_Flush_Fire_Escape	480 KB
Sgl Plain	412 KB
Z-1000_ITitlesheet_A0A1A2	320 KB
A-3036_DoorHandle	320 KB
Z-6050_Elevation_MarkSmall	316 KB
Z-1000_ATitlesheet_A0A1A2	316 KB
Z-1000_ITitlesheet_A3	312 KB

# VIEW CHECKS

- List views which are not on sheets – are they needed? WIP or Working views
- Checks the view names conform to Keppie standards
- Highlights which views are named incorrectly

<div><div></div><div>View Name_Fail - REQUIRED</div><div>Count: 33</div></div> <div><table><tr><th>Name</th></tr><tr><td>Views : 3D View</td></tr><tr><td>Views : 3D View</td></tr><tr><td>Views : 3D View</td></tr><tr><td>Views : A_7080_GASections_1100</td></tr><tr><td>Views : A_7080_GASections_120</td></tr><tr><td>Views : A_7080_GASections_1200</td></tr><tr><td>Views : Building Section (Vertical)</td></tr><tr><td>Views : Ceiling Plan</td></tr><tr><td>Views : Ceiling Plan</td></tr><tr><td>Views : Ceiling Plan</td></tr><tr><td>Views : Detail</td></tr><tr><td>Views : Detail</td></tr></table></div>	Name	Views : 3D View	Views : 3D View	Views : 3D View	Views : A_7080_GASections_1100	Views : A_7080_GASections_120	Views : A_7080_GASections_1200	Views : Building Section (Vertical)	Views : Ceiling Plan	Views : Ceiling Plan	Views : Ceiling Plan	Views : Detail	Views : Detail
Name													
Views : 3D View													
Views : 3D View													
Views : 3D View													
Views : A_7080_GASections_1100													
Views : A_7080_GASections_120													
Views : A_7080_GASections_1200													
Views : Building Section (Vertical)													
Views : Ceiling Plan													
Views : Ceiling Plan													
Views : Ceiling Plan													
Views : Detail													
Views : Detail													

## View Naming

4 Checks, 4 Count/List

<div><div></div><div>View Not On Sheets - OPTIONAL</div><div>Count: 29</div></div> <div><table><tr><th>Name</th></tr><tr><td>3D View - {3D - gmcfarlaneKPTTB}</td></tr><tr><td>3D View - {3D}</td></tr><tr><td>3D View - Z-7005_(3D)Default</td></tr><tr><td>Area Plan - A-1080_Level 00</td></tr><tr><td>Area Plan - A-1080_Level 00</td></tr><tr><td>Area Plan - A-1080_Level 00</td></tr><tr><td>Ceiling Plan - A-7060_Roof Level</td></tr><tr><td>Ceiling Plan - Z-6045_Level 00</td></tr><tr><td>Ceiling Plan - Z-6045_Level 01</td></tr><tr><td>Ceiling Plan - Z-6045_Rooflight</td></tr><tr><td>Elevation - Elevation 1 - a</td></tr><tr><td>Elevation - Elevation 2 - a</td></tr></table></div>	Name	3D View - {3D - gmcfarlaneKPTTB}	3D View - {3D}	3D View - Z-7005_(3D)Default	Area Plan - A-1080_Level 00	Area Plan - A-1080_Level 00	Area Plan - A-1080_Level 00	Ceiling Plan - A-7060_Roof Level	Ceiling Plan - Z-6045_Level 00	Ceiling Plan - Z-6045_Level 01	Ceiling Plan - Z-6045_Rooflight	Elevation - Elevation 1 - a	Elevation - Elevation 2 - a
Name													
3D View - {3D - gmcfarlaneKPTTB}													
3D View - {3D}													
3D View - Z-7005_(3D)Default													
Area Plan - A-1080_Level 00													
Area Plan - A-1080_Level 00													
Area Plan - A-1080_Level 00													
Ceiling Plan - A-7060_Roof Level													
Ceiling Plan - Z-6045_Level 00													
Ceiling Plan - Z-6045_Level 01													
Ceiling Plan - Z-6045_Rooflight													
Elevation - Elevation 1 - a													
Elevation - Elevation 2 - a													
<div><div></div><div>View Count - REQUIRED</div><div>Count: 53</div></div>													
<div><div></div><div>View Name - REQUIRED</div><div>Count: 20</div></div> <div><table><tr><td>Views : A-3025_CeilingFinishes_1100</td></tr><tr><td>Views : A-5020_SitePlans_1500</td></tr><tr><td>Views : A-7030_GAElevations_1200</td></tr><tr><td>Views : A-7030_GAElevations_1-100</td></tr><tr><td>Views : A-7050_FireStrategy</td></tr><tr><td>Views : A-7060_GAPPlans_1100</td></tr><tr><td>Views : A-7060_GAPPlans_1200</td></tr><tr><td>Views : Ceiling Plan</td></tr><tr><td>Views : Detail</td></tr><tr><td>Views : Detail</td></tr><tr><td>Views : Detail</td></tr><tr><td>Views : Detail</td></tr><tr><td>Views : Floor Plan</td></tr></table></div>	Views : A-3025_CeilingFinishes_1100	Views : A-5020_SitePlans_1500	Views : A-7030_GAElevations_1200	Views : A-7030_GAElevations_1-100	Views : A-7050_FireStrategy	Views : A-7060_GAPPlans_1100	Views : A-7060_GAPPlans_1200	Views : Ceiling Plan	Views : Detail	Views : Detail	Views : Detail	Views : Detail	Views : Floor Plan
Views : A-3025_CeilingFinishes_1100													
Views : A-5020_SitePlans_1500													
Views : A-7030_GAElevations_1200													
Views : A-7030_GAElevations_1-100													
Views : A-7050_FireStrategy													
Views : A-7060_GAPPlans_1100													
Views : A-7060_GAPPlans_1200													
Views : Ceiling Plan													
Views : Detail													
Views : Detail													
Views : Detail													
Views : Detail													
Views : Floor Plan													

# SHEET CHECKS

- Checks that sheets exist within with model
- Checks sheet number conforms to naming conventions
- Lists any sheets that don't match naming conventions

Sheet Naming

3 Checks, 3 Count/List

Sheets Exist - REQUIRED

Count: 8

Sheet Number match - REQUIRED

Sheet Number matches naming conventions

Count: 7

Name
Sheets : Sheet
Sheets : Sheet
Sheets : Sheet
Sheets : Sheet
Sheets : Sheet
Sheets : Sheet
Sheets : Sheet

Sheet Number doesn't match - REQUIRED

Sheet Number doesn't matches naming conventions

Count: 1

Name
Sheets : Sheet

# WORKSET CHECKS

- Lists the worksets that exist within the model to check they are named correctly
- Individual checks of elements on wrong worksets
- Windows on wrong workset, walls on wrong workset etc.

Worksets

21 Checks, 2 (100%) Pass, 0 Fail, 19 Count/List

Worksets - OPTIONAL  
Count: 40

A-2050\_ArchitectsElectrical  
A-2050\_ArchitectsMechanical  
A-2050\_ArchitectsStructure  
A-2050\_Drainage  
A-2050\_M&Engineer  
A-2050\_StructuralEngineer  
A-2510\_ExternalWalls  
A-2510\_InternalWalls  
A-2513\_BlockworkWalls  
A-2515\_BalustradesHandrails  
A-2530\_ExternalDoors  
A-2530\_ExternalWindow  
A-2530\_InternalDoors

Workset Placement - OPTIONAL  
Count: 0

Windows on wrong workset - REQUIRED  
Count: 0

Walls on wrong workset - REQUIRED  
Count: 4

Name
Walls : A_2510_EW_2_520_Generic
Walls : A_2510_EW_2_520_Generic
Walls : A_2510_EW_2_520_Generic
Walls : A_2510_EW_2_520_Generic

Topo on wrong workset - REQUIRED  
Count: 0



# ROOM CHECKS

- Checks that rooms exist within the model
- Checks that rooms are on the correct workset (A-2040\_AreasRooms)
- Checks that room numbers have been placed
- Highlights how many unenclosed or not placed rooms are in the model and may need deleted

Room Checks

4 Checks, 1 (100%) Pass, 0 Fail, 3 Count/List

Rooms - REQUIRED

Check whether there are rooms in the model

Count: 15

Rooms Workset - REQUIRED

Check rooms are on correct workset

Count: 15

Name
Rooms : Cafe and Terrace 9
Rooms : Conf circulation 15
Rooms : Conference 3
Rooms : FF Retail 8
Rooms : GF Retail 4
Rooms : Kitchen 7
Rooms : Museum 11
Rooms : Offices 12
Rooms : Plant 13
Rooms : Plant 6
Rooms : Store 14
Rooms : Store 5

Room numbers - REQUIRED

Check whether rooms have been placed in the model

Rooms Not Placed or Unenclosed - REQUIRED

Count: 15

# HOW TO PREPARE

---

# KNOW THE STANDARDS

## File naming



## Using the correct container names

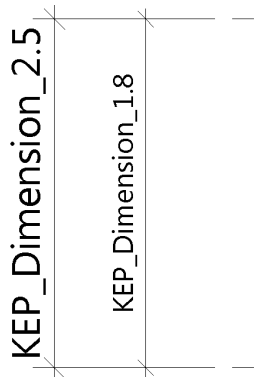


- Examples:
- Worksets     A-2510\_ExternalWalls
  - Symbols     A-2280\_NorthPoint
  - View names   A-8050\_1-500\_FireStrategy\_Level 00
  - Families     A-2530\_ExternalDoor\_Type1
  - Sketches     A-8520\_20171212\_Room02Option1

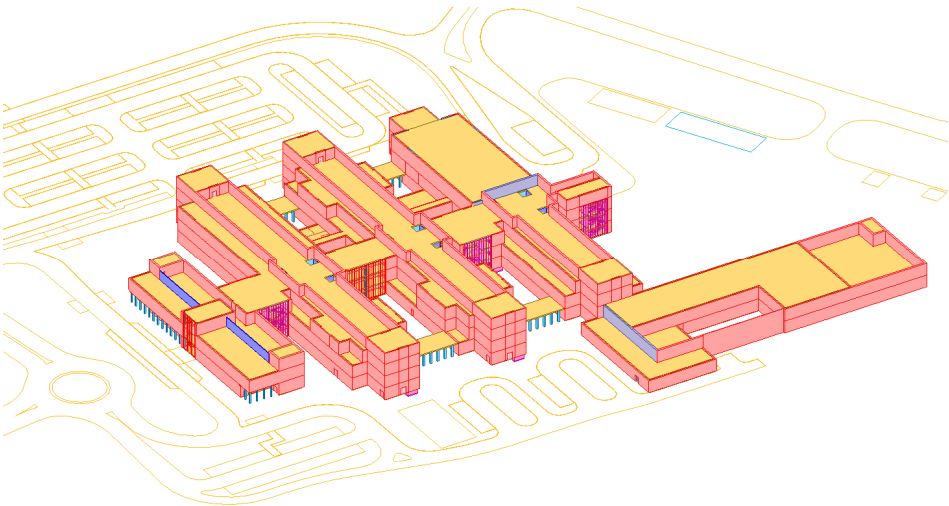
## Line, text & dimension naming

- ← KEP\_Black\_T\_Segoe\_1.3
- ← KEP\_Red\_O\_Segoe\_1.3
- ← KEP\_Black\_T\_Segoe\_1.5
- ← KEP\_Black\_T\_Segoe\_1.8
- ← KEP\_Black\_T\_Segoe\_2.0
- ← KEP\_Black\_T\_Segoe\_2.5
- ← KEP\_Red\_O\_Segoe\_2.5
- ← KEP\_Black\_T\_Segoe\_3.5
- ← KEP\_Black\_T\_Segoe\_5.0
- ← KEP\_Black\_T\_Segoe\_7.0

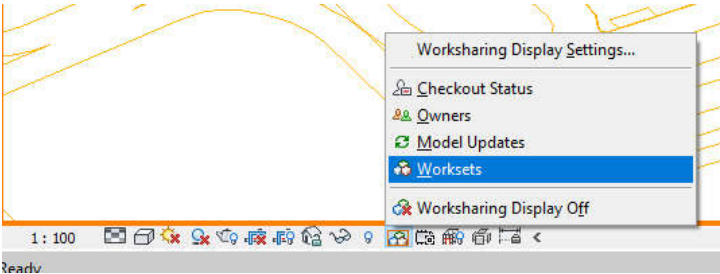
.....	KEP_1_Black_Solid	1	Black	Solid
.....	KEP_1_Blue_Solid	1	Blue	Solid
.....	KEP_1_Cyan_Solid	1	Cyan	Solid
.....	KEP_1_Green_Solid	1	Green	Solid
.....	KEP_1_Grey(Dark)_Solid	1	RGB 128-128-128	Solid
.....	KEP_1_Grey(Light)_Solid	1	RGB 220-220-220	Solid
.....	KEP_1_Magenta_Solid	1	Magenta	Solid
.....	KEP_1_Red_Solid	1	Red	Solid
.....	KEP_1_Yellow_Solid	1	Yellow	Solid
.....	KEP_3_Red_Dash	3	Red	KEP_Dash_3.0
.....	KEP_5_Black_Solid	5	Black	Solid
.....	KEP_10_Black_Solid	10	Black	Solid



# WORKSETS



- Quick way to over view worksets
- Within bottom ribbon while in a 3D view
- Worksharing > Worksets



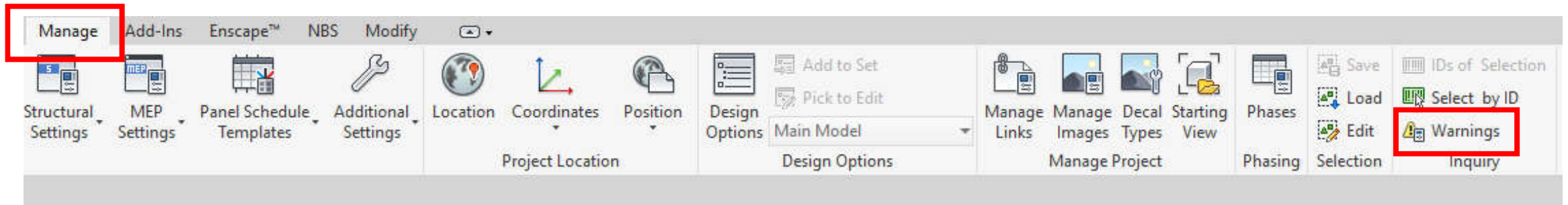
# FILE SIZE

Name	Date modified	Type	Size
CAD_Imports	26/11/2018 10:34	File folder	
Image_Imports	15/06/2015 10:24	File folder	
P18097-KEP-XX-XX-M3-A-2015-0001_2017_Main_backup	05/07/2019 10:19	File folder	
P18097-KEP-XX-XX-M3-A-5020-0001_2017_Container_backup	13/03/2019 08:16	File folder	
Revit_temp	05/07/2019 10:59	File folder	
debug.log	05/11/2018 08:18	Text Document	1 KB
P18097-KEP-XX-XX-M3-A-2015-0001_2017_Main.rvt	16/04/2019 11:39	Autodesk Revit Pr...	105,276 KB
P18097-KEP-XX-XX-M3-A-5020-0001_2017_Container.rvt	13/03/2019 08:16	Autodesk Revit Pr...	5,896 KB

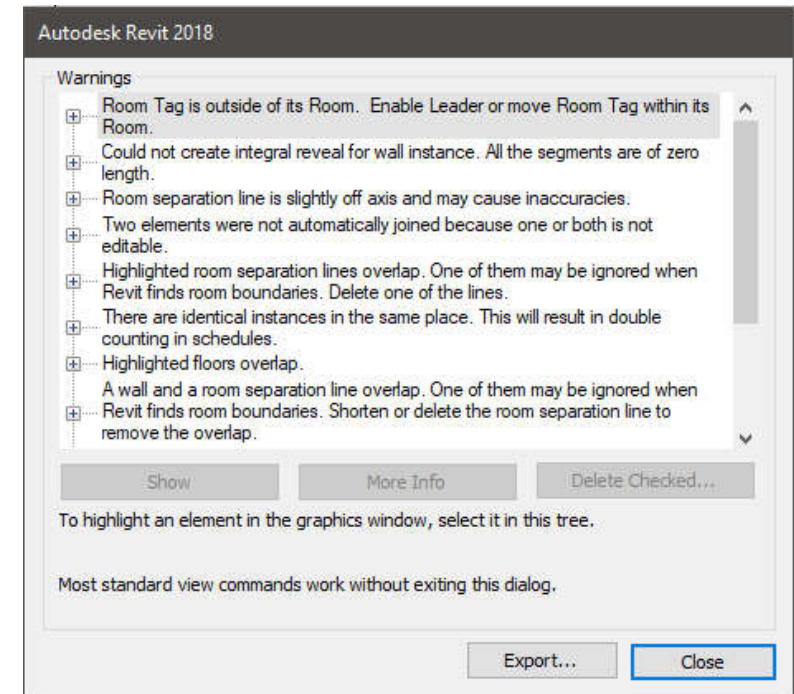
- File size limit is 200KB
- If a model is getting close to 200KB, speak to someone about splitting the model

P17116-KEP-BA-XX-M3-A-2050-0003_2019_BlockA.rvt	24/07/2019 12:30	Autodesk Revit Pr...	131,940 KB
P17116-KEP-BB-XX-M3-A-2050-0004_2019_BlockB.rvt	24/07/2019 12:32	Autodesk Revit Pr...	42,300 KB
P17116-KEP-BC-XX-M3-A-2050-0005_2019_BlockC.rvt	24/07/2019 12:34	Autodesk Revit Pr...	94,416 KB
P17116-KEP-BD-XX-M3-A-2050-0006_2019_BlockD.rvt	24/07/2019 13:49	Autodesk Revit Pr...	42,432 KB
P17116-KEP-XX-XX-M3-A-2050-0001_2019_Main&Site.rvt	24/07/2019 12:34	Autodesk Revit Pr...	85,208 KB

# WARNINGS



- Regularly check warning count within models
- Within manage tab > Inquiry > Warnings
- Keeping warning count low speeds up the validation process & keeps the model accurate/ clean



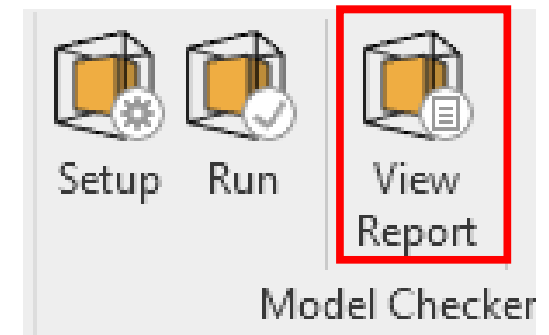
## Setup an Audit Process

### Example

Models being checked **every** 2 weeks

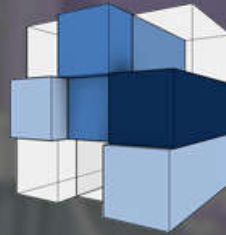
Results being saved within the project folders

Remediation steps noted and followed up

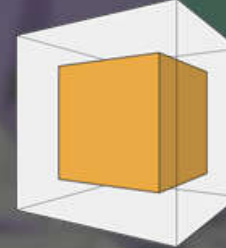


<https://www.biminteroperabilitytools.com/>

These free Autodesk apps are designed to help architects, engineers, contractors and owners with their Building Information Modeling (BIM) workflows.



Autodesk  
Classification  
Manager for Revit



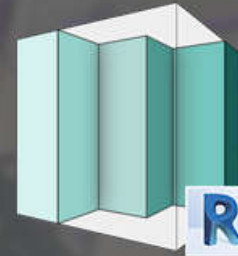
Autodesk  
Model Checker  
for Revit



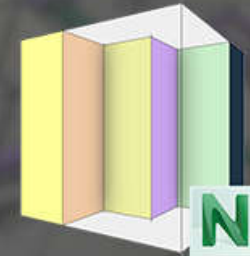
Autodesk  
Model Checker  
Configurator



Autodesk  
Enhanced DWG  
Exporter for Revit

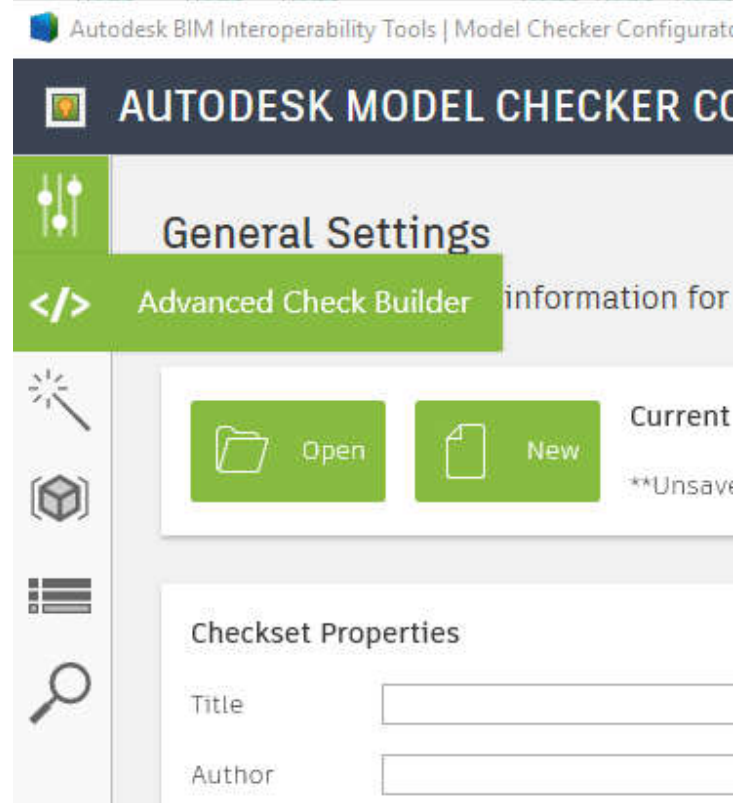
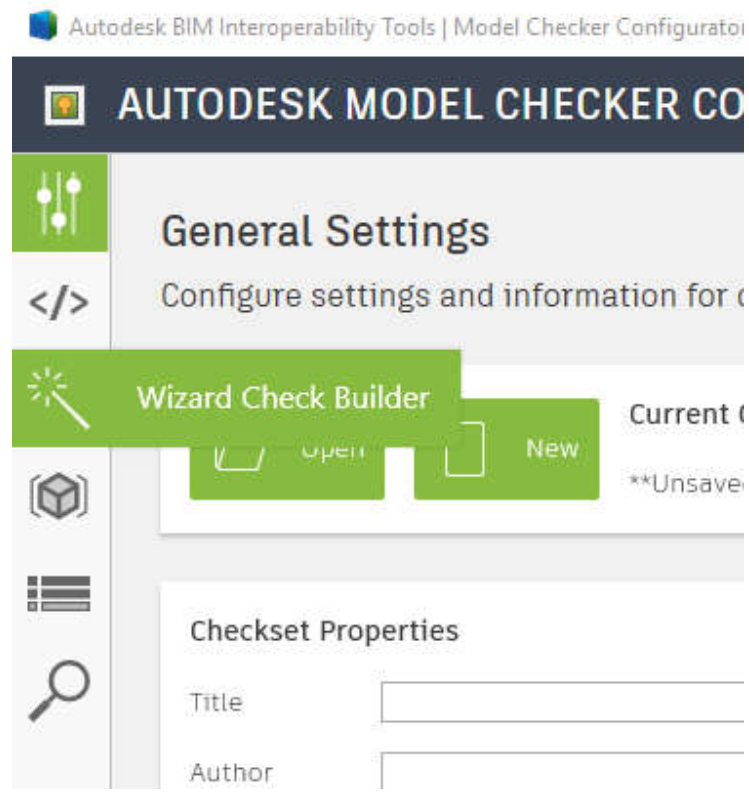
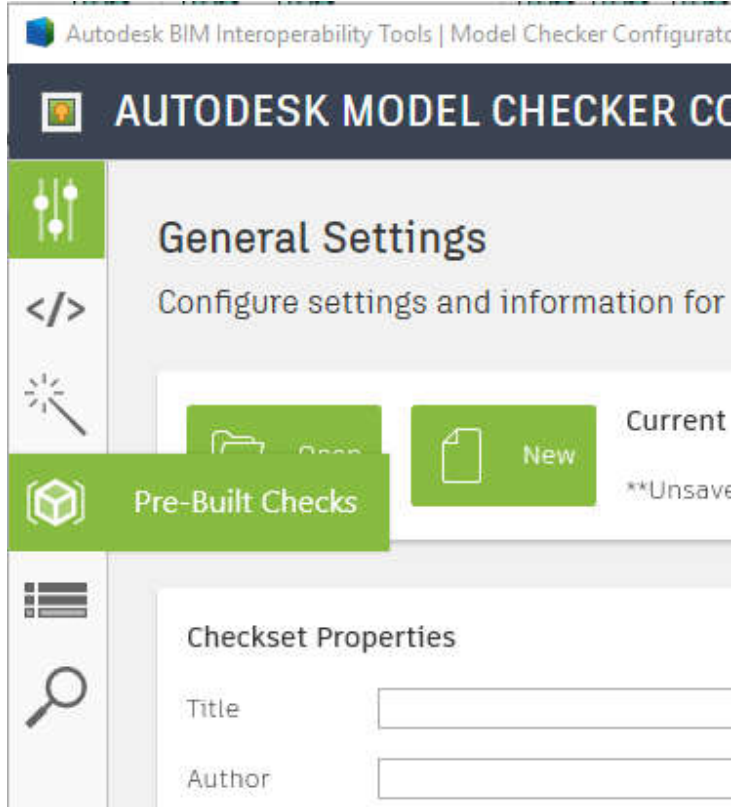
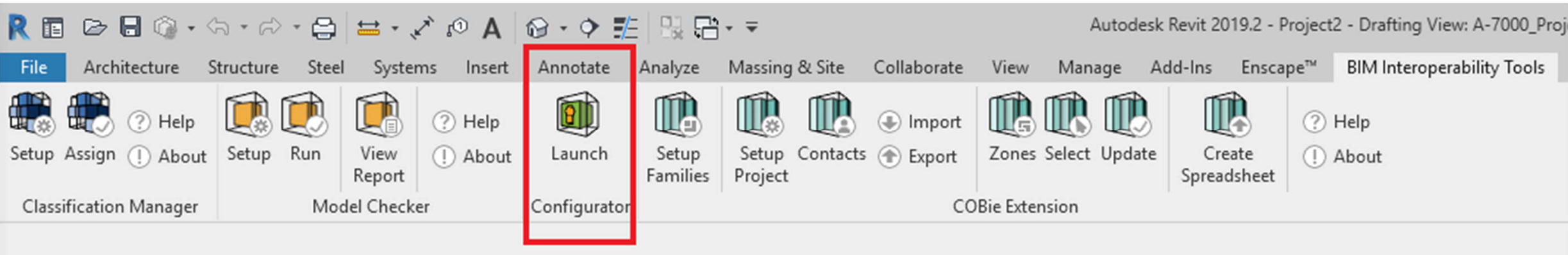


Autodesk  
COBie Extension  
for Revit



Autodesk  
COBie Extension  
for Navisworks





Configurator



**XXX-KEP-XX-XX-M3-A-XXXXXX\_Description**

## AUTODESK MODEL CHECKER C

**General Settings**  
Configure settings and information for

**Wizard Check Builder**

Open New

Current

\*\*Unsave

**Checkset Properties**

Title

Author

## AUTODESK MODEL CHECKER CONFIGURATOR FOR REVIT



### Wizard

Use the Wizard to build a check. Once you finish it will be in the Unused Checks area of the Structure Page.



This check will FAIL if it FINDS MATCHING ELEMENTS



This check will FAIL if it DOES NOT FIND MATCHING ELEMENTS



This check will COUNT MATCHING ELEMENTS

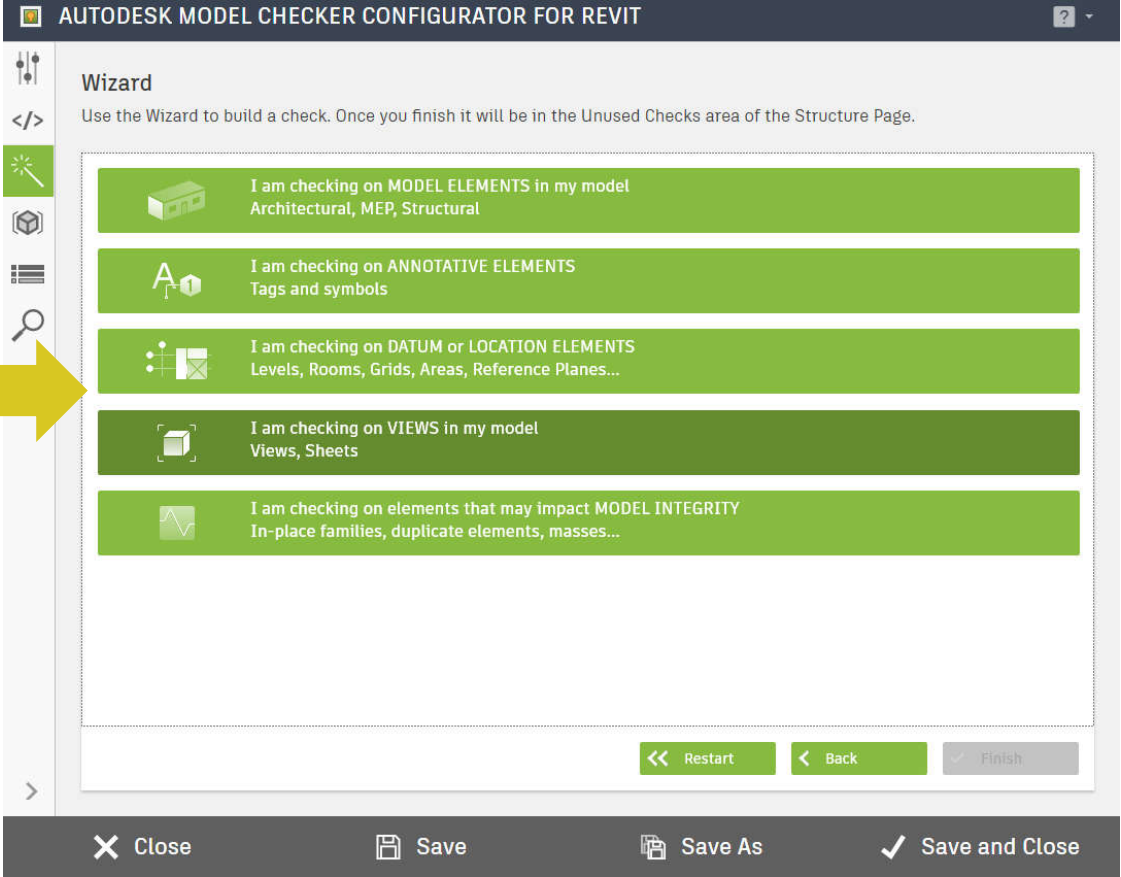
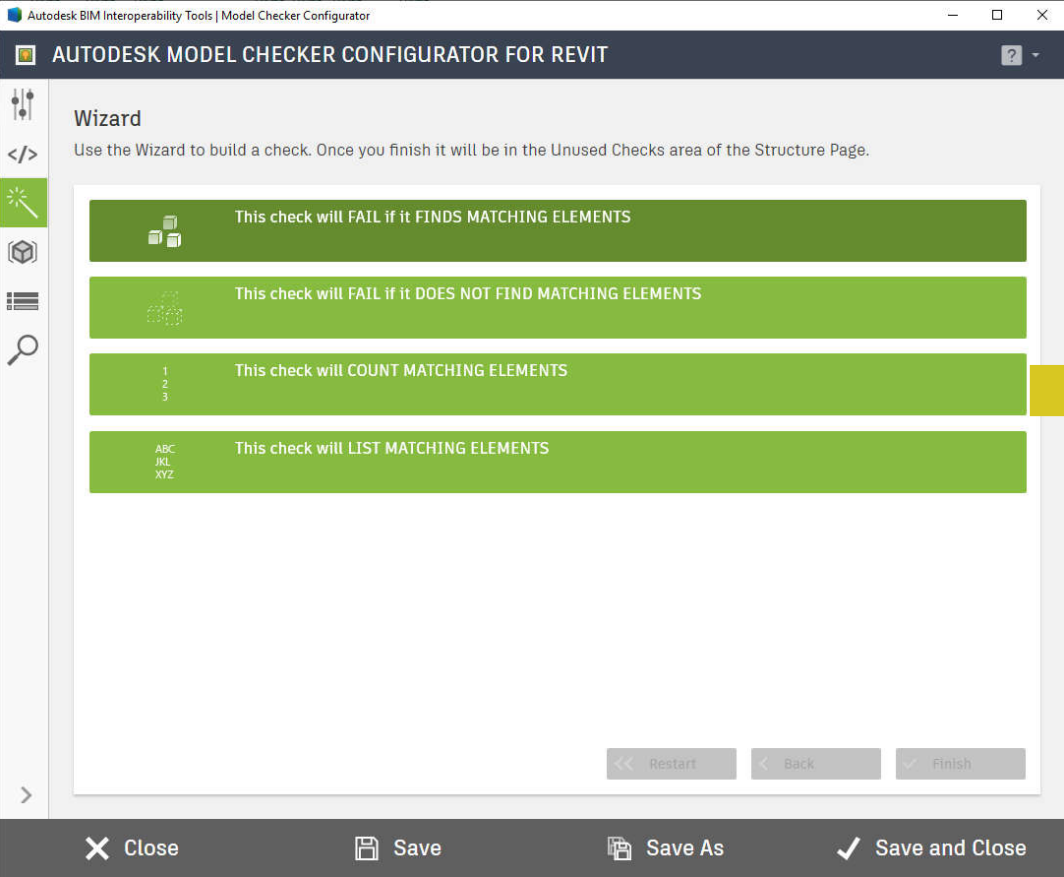


This check will LIST MATCHING ELEMENTS

<< Restart

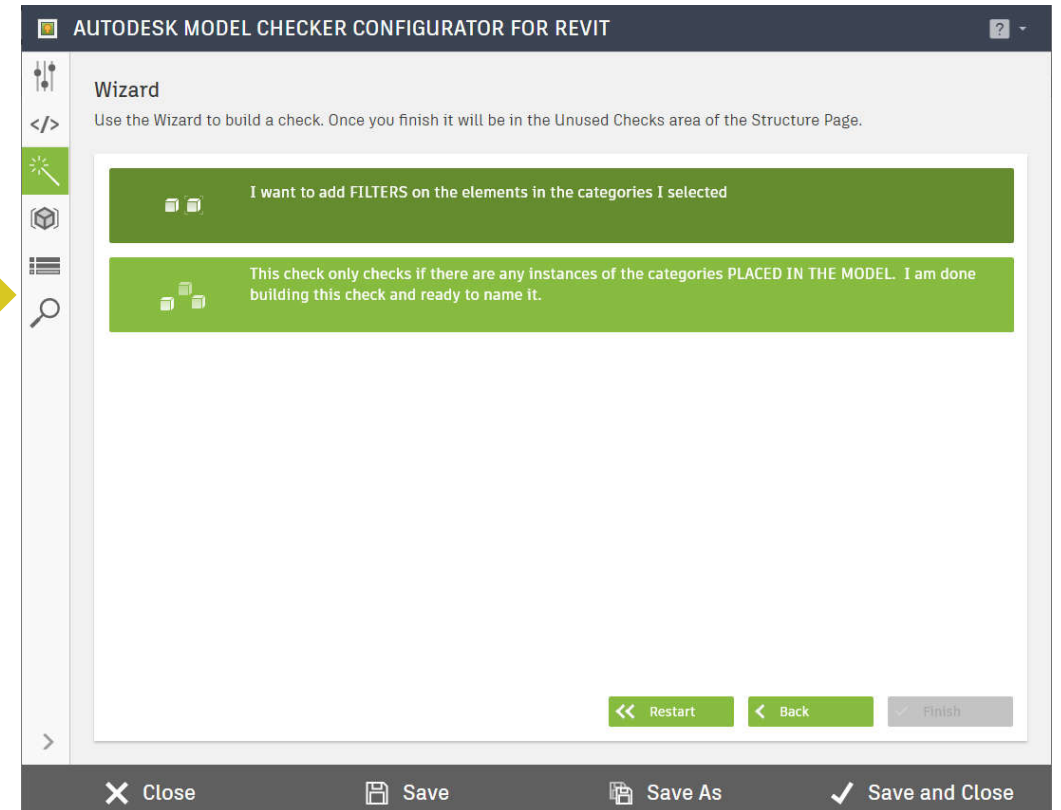
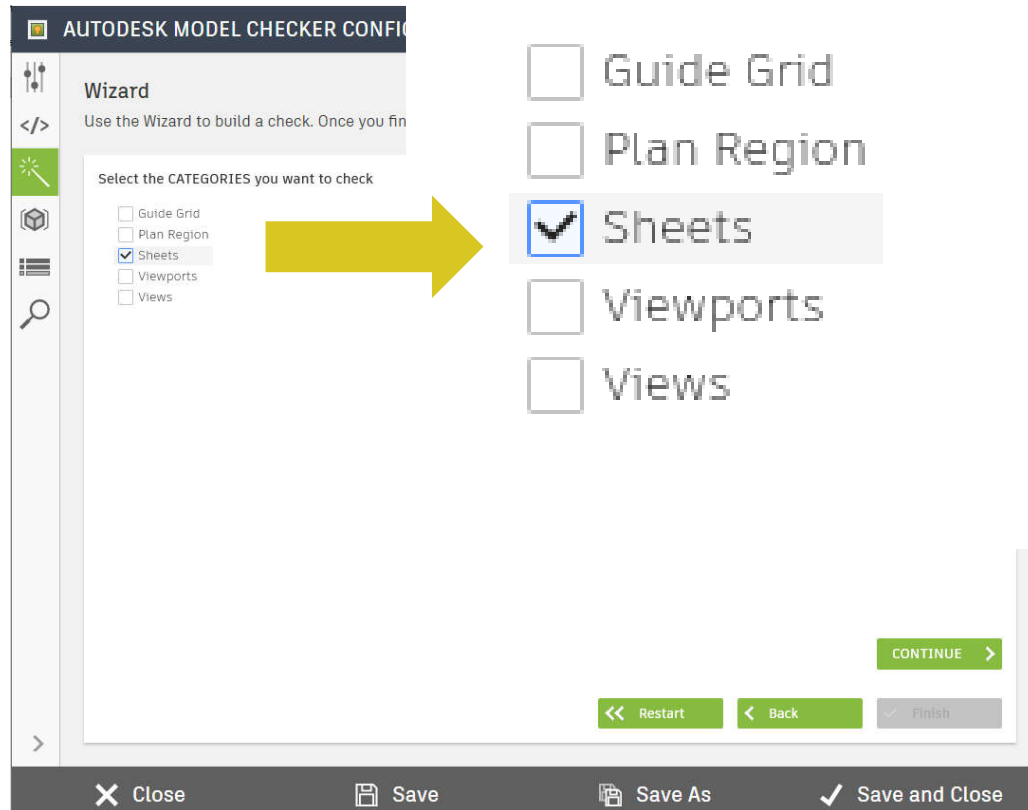
< Back

✓ Finish

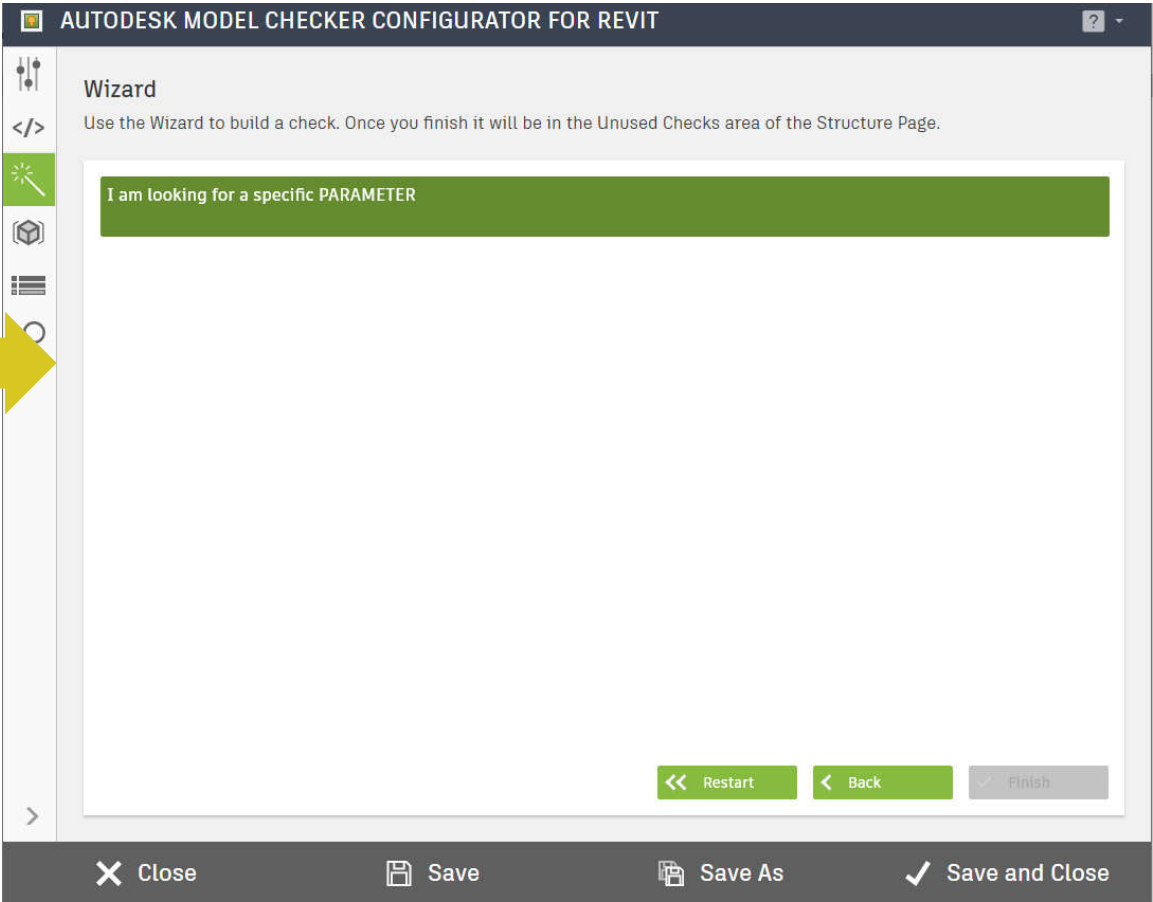
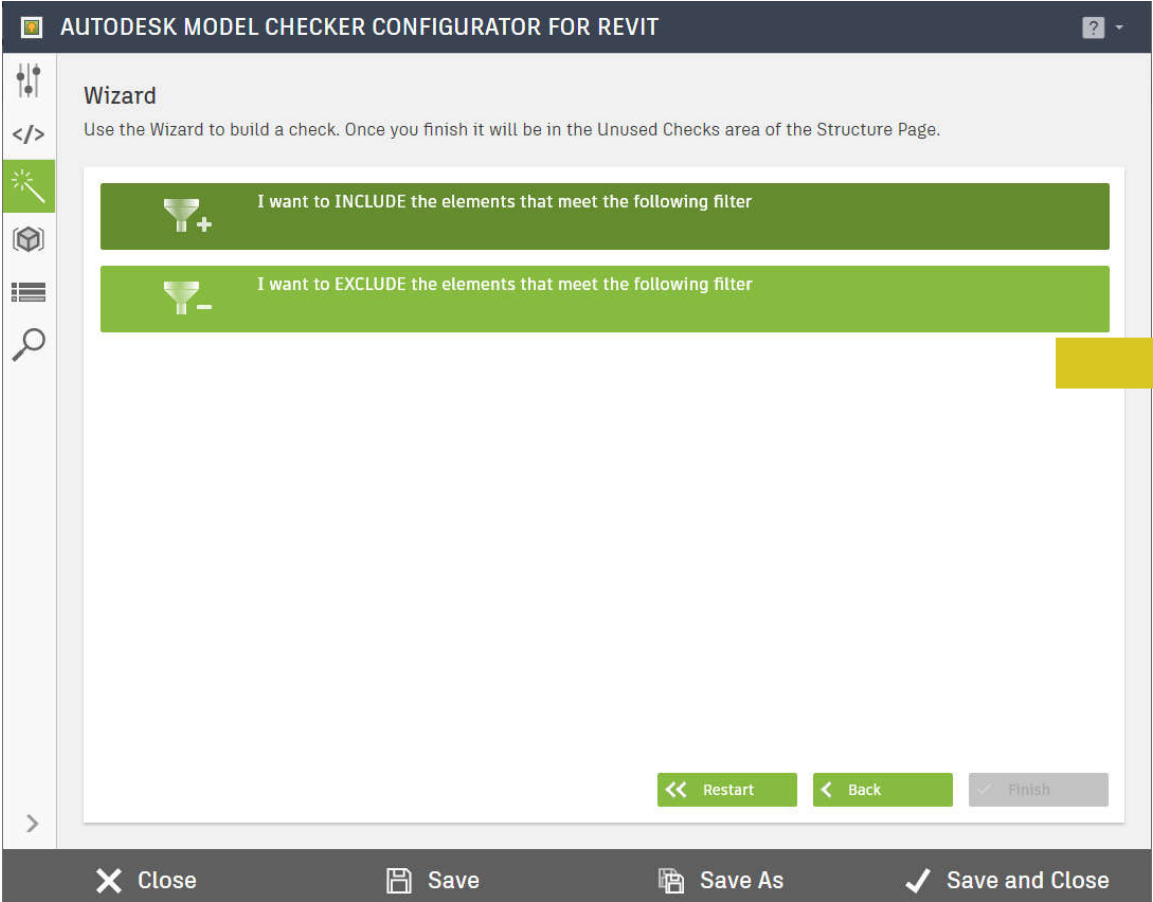


## Build the Check

## Select the CATEGORIES you want to check



## Build the Check



Build the Check

**<https://regex101.com/>**

## AUTODESK MODEL CHECKER CONFIGURATOR FOR REVIT

### Wizard

Use the Wizard to build a check. Once you finish it will be in the Unused Checks area of the Structure Page.

Check for the PARAMETER named

Sheet Number

and see if its value

EQUALS  
DOES NOT EQUAL  
IS GREATER THAN  
IS LESS THAN  
IS GREATER THAN OR EQUAL TO  
IS LESS THAN OR EQUAL TO  
CONTAINS THE WORD OR PHRASE  
DOES NOT CONTAIN THE WORD OR PHRASE  
IS DEFINED  
IS NOT DEFINED

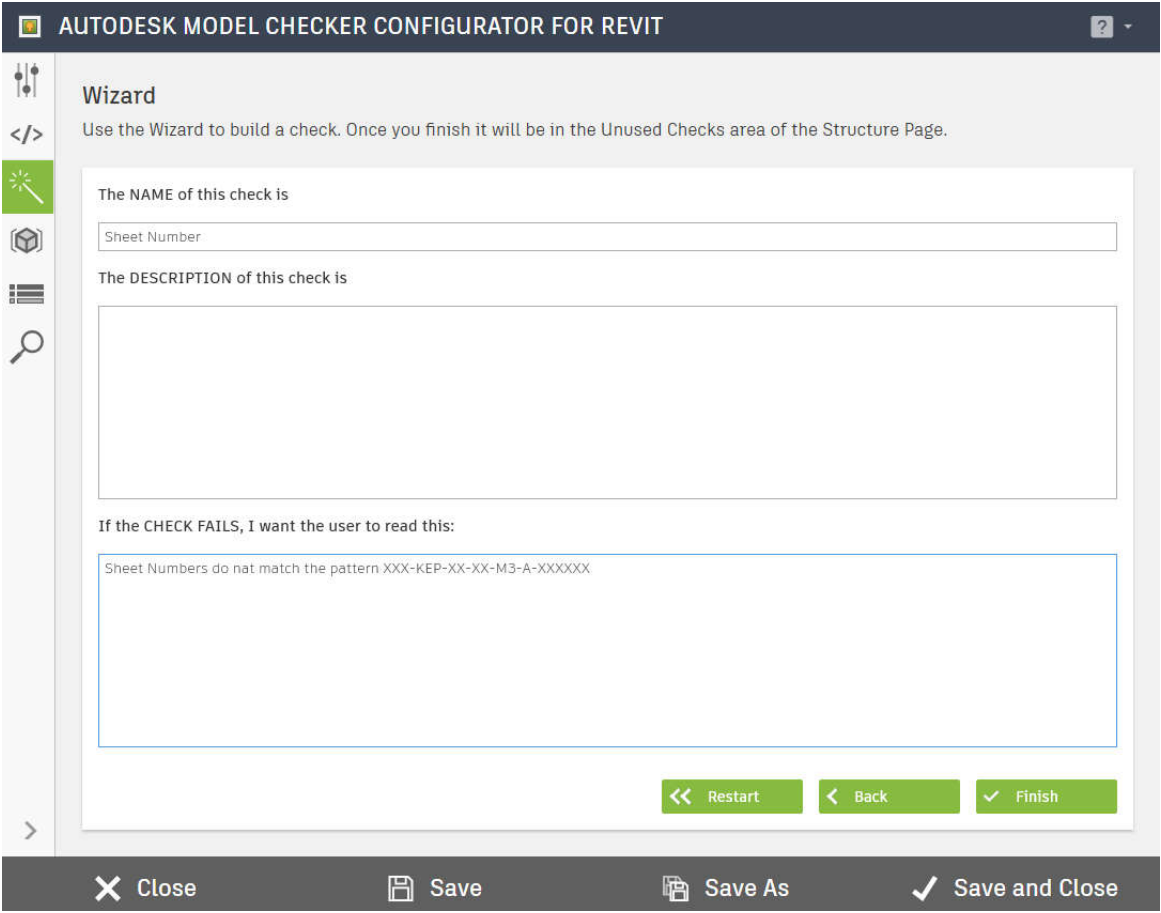
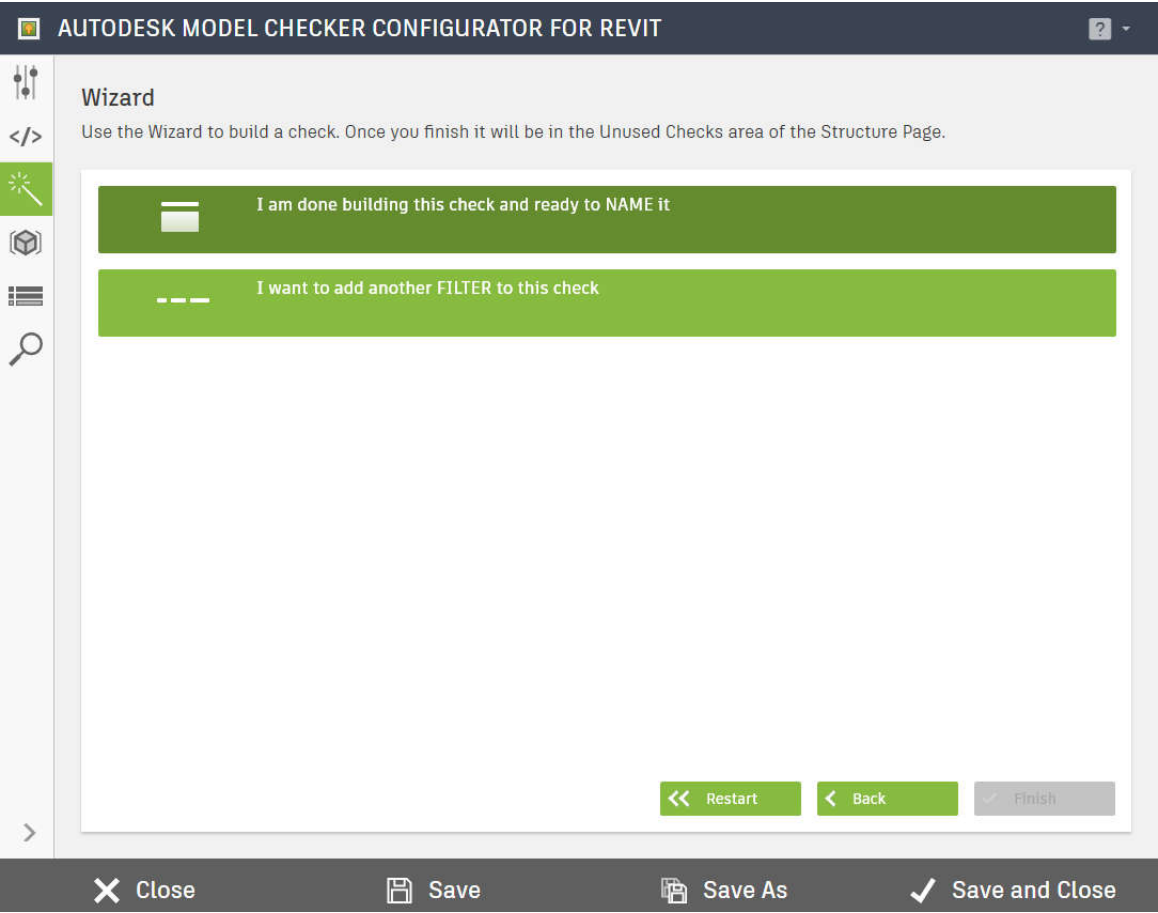
Unit Type: None Unit: None

OR

☐ Allow the user to enter a value during configuration

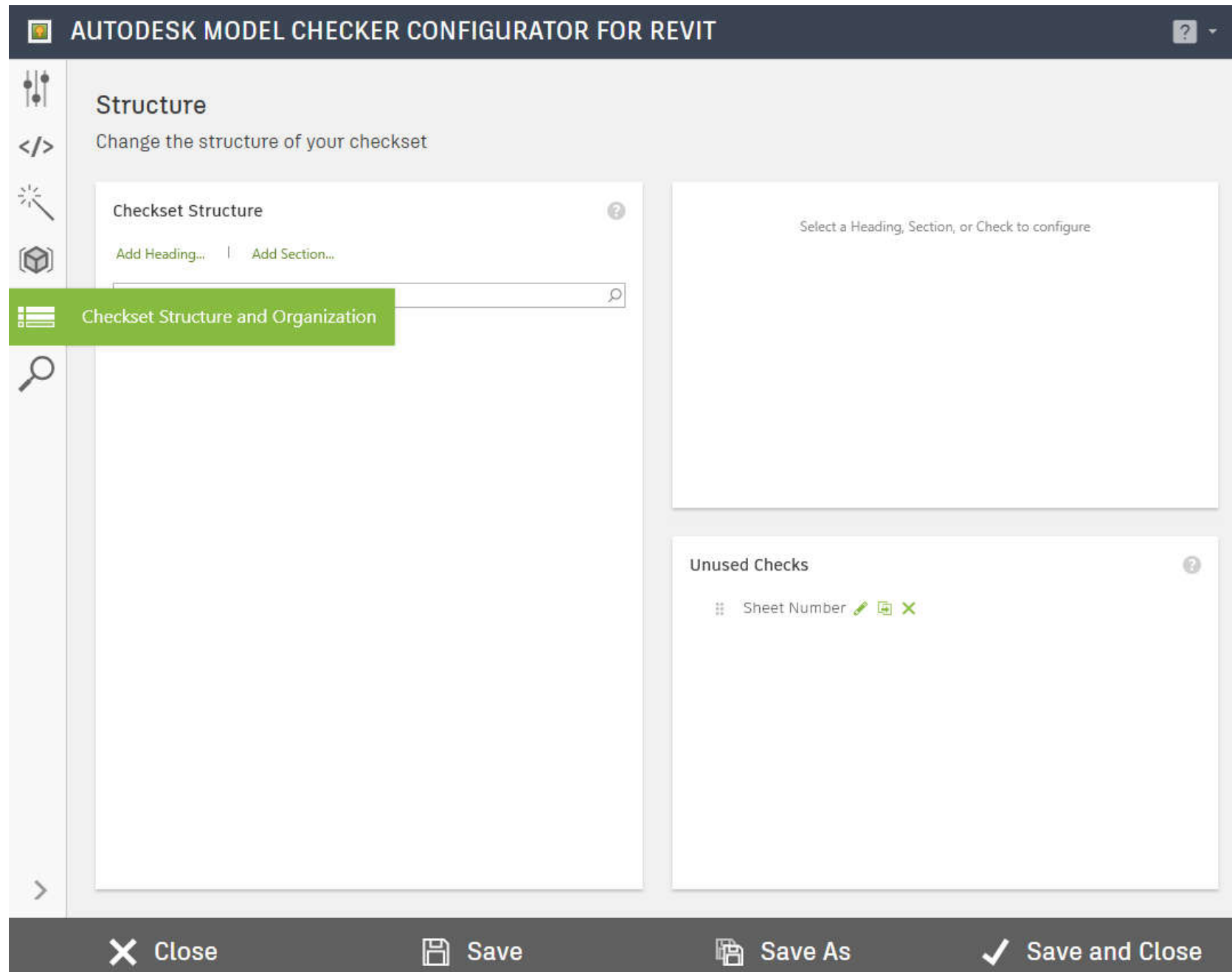
CONTINUE >

<< Restart < Back > Finish



Build the Check





Edit Check

AUTODESK MODEL CHECKER CONFIGURATOR FOR REVIT

Advanced

Create a new check or edit an existing one by adjusting settings and adding filters. A newly created check, once saved, will be in the Unused Checks area of the Structure Page.

Save

New

Properties

Name

Sheet Number

Check Result

Fail when Matching Elements are found

Description

Failure Message

Sheet Numbers do nat match the pattern XXX-KEP-XX-XX-M3-A-XXXXXX

☒ Set this check to run by default

☒ Show as Required

Filters

Add Filter...

	Operator	Criteria	Property	Condition	Value	
		Category	OST_Sheets	Include	Code: True	X
	And	Parameter	Sheet Number	≠	Code: ^\w{3}-KEP-\w{2}-\w{2}-M3-A-\d{6}\$	X

Preview (Category OST\_Sheets Included True ANDParameter Sheet Number ≠ ^\w{3}-KEP-\w{2}-\w{2}-M3-A-\d{6}\$)

Close

Save

Save As

Save and Close

Build Check File



**THANK YOU**

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