#### MODEL PERFORMANCE ANALYTICS

This template is designed to check your Revit model against common industry best practices. As with any best practices, these are based on industry trends and can be modified to fit specific project requirements or firm standards.

This template is built from the revit 2019 API. While it is usable with older versions of Revit, not all of the metrics will be available.

To use this template you will need to download the BIM Interoperability Tools either from the website ( $\underline{\text{link}}$ ) or via the Autodesk Desktop app. Once installed, open Revit, choose the BIM Interoperability Tools tab. Select Setup from the Model Checker panel (1). This will open a dialog box for you to load your check configuration.

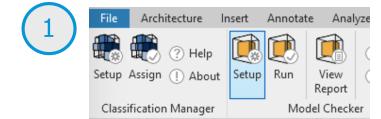
Download the config and this dashboard here (link).

Once the check has run, you'll have the option to export the check to an excel file (2). Make sure to check the <u>Export list elements</u> check box before exporting.

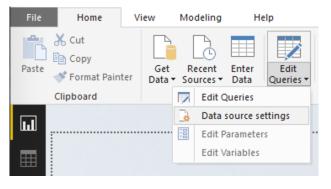
Once you have the excel file, you're ready to review the report. Open Power BI (download BI <a href="https://example.com/here">here</a>). Once you have Power BI running, open the dashboard. Finally, we just need to populate it with your project data. To do that, choose the Home tab and the Edit Queries fly out. Select the Data Source Settings button (3).

In the Data Source Settings, choose Change Source at bottom left of the dialog box (4), which will open a new window. Here, you can browse out to the excel file you saved from BIM Interoperability Tools (5). Click OK to close the dialog boxes. Your data will automatically load and you can Publish the dashboard to share it with others.

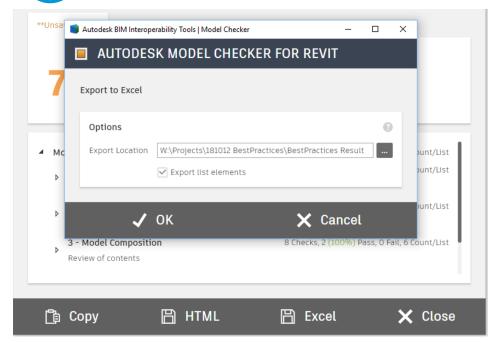
Revit's published best practices can be found here (link)

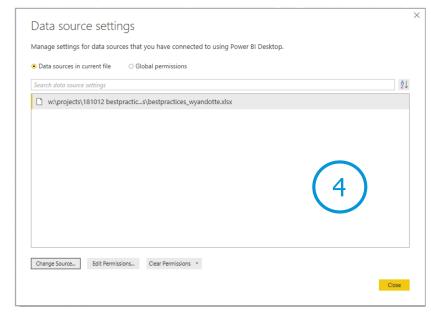














PROJECT INFORMATION

Value

ffc1f165-8370-43a4-

ae63-2077ab990b09

4

Name

Author

Category

**Building Name** 

SR Document GUID

Type Name Workset

# 04106\_WyandotteLofts-A19-CENTRAL.rvt

AUTO

BUILD: Autodesk Revit 2019 20180328 1600(x64)

#### MODEL NAME

71.95 MB

FILE SIZE

55,872

**ELEMENT COUNT** 

### PERFORMANCE ANALYSIS

1,128! Goal: 500 (-125.6%) ERRORS & WARNINGS Goal: 0

28.2%!
Goal: 20.0% (-40.85%)
VIEWS NOT ON SHEETS

473 Goal: 838 (+43.56%) PURGE UNUSED

157!
Goal: 1

IN-PLACE FAMILIES

Goal: 0

FAMILIES > 5000KB

MODEL LOCATION		
Name _	Value	
Project Base Point Coordinate	0" E/W   0" N/S	
Project Base Point Elevation	0"	
Project Base Point Rotation	0.00°	
Survey Point Coordinate	0" E/W   0" N/S	
Survey Point Elevation	0"	

#### SHARED PARAMETERS FILE LOCATION

### MODEL PERFORMANCE BASICS

MODEL PERFORMANCE IS PRIMARILY IMPACTED BY FOLLOWING INDUSTRY BEST PRACTICES FOR REVIT MODEL CREATION. A LARGE, WELL CONSTRUCTED MODEL CAN OUT PERFORM A SMALL MODEL THAT WASN'T WELL BUILT.

THE BEST PRACTICES THAT MOST IMPACT MODEL
PERFORMANCE (OUTSIDE OF PHYSICAL HARDWARE) SHOWN TO
THE LEFT. MINIMIZING THESE VALUES CAN DRAMATICALLY
IMPACT PERFORMANCE.

SELECT THE INFORMATION ICON FOR ADDITIONAL INFORMATION.

#### Client Name 2120 Wyandotte Investors 5700 Golden Bear Overland Park, KS 66223 **Design Option Design Option** Main Model Edited by Family Name Organization Description **Organization Name Project Address** 2120 WYANDOTTE KANSAS CITY. MISSOURI 64108 Project Issue Date 19 December 2005 **Project Name** FREIGHTHOUSE **FLATS Project Number** 04106 **Project Status** CONSTRUCTION SET

# 04106\_WyandotteLofts-A19-CENTRAL.rvt

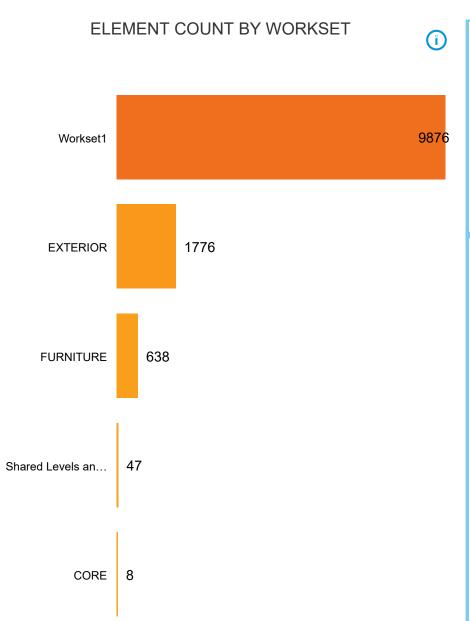
**AUTODESK**.

MODEL NAME

IMPORTED CAD		
Name ▼	Element ID	
northSTAIRf.dwg : northSTAIRf.dwg	1964160	
northSTAIRf.dwg (2): northSTAIRf.dwg (2)	1994409	
DOORS.dwg : DOORS.dwg	2192745	
DOORS.dwg (3): DOORS.dwg (3)	2192831	
DOORS.dwg (2): DOORS.dwg (2)	2192788	
7-8 HAT.dwg : 7-8 HAT.dwg	2349157	

IMPORTED IMAGES		
Name	Element ID	^
Raster Images : Codes Interpretation CI2003- 060.jpg	2347304	
Raster Images : ibc2003_TBL 720.1(2).jpg	3236177	
Raster Images : UL U411.jpg	3261160	
Raster Images : UL U412.jpg	3261163	
Raster Images : UL U415.jpg	3261156	
Raster Images : UL U465.jpg	3261169	<b>V</b>

	IMPORTED SKP	
Name		Element ID



Count
24

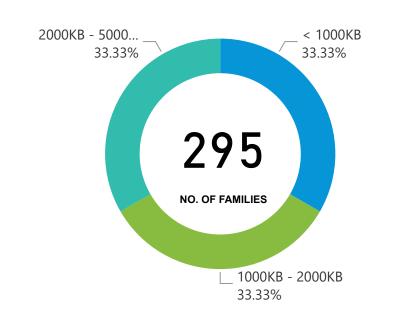
GENERIC MODELS		
Name	Element ID	^
Generic Models : 04106-awning : 04106-awning	3270023	
Generic Models : 04106-East Door : EXISTING DOOR	321486	
Generic Models : 04106-Galley Kitchen : 04106-Galley Kitchen	1288727	
Generic Models : 04106-Galley Kitchen_UPGRADE : 04106-Galley Kitchen_UPGRADE	1359253	
Generic Models : 04106-Galley Kitchen-unit20 : 04106-Galley Kitchen-unit20	1048765	
Generic Models : 04106-refrigerator cover non wall based : 04106-refrigerator cover non wall based	1066537	
Generic Models : 04106-refrigerator cover non wall based : 04106-refrigerator cover non wall based	1068242	
Generic Models: 04106-refrigerator cover non wall based: 04106-refrigerator cover non wall based	1175609	
Generic Models : 04106-refrigerator cover non wall based : 04106-refrigerator cover non wall	1423411	~

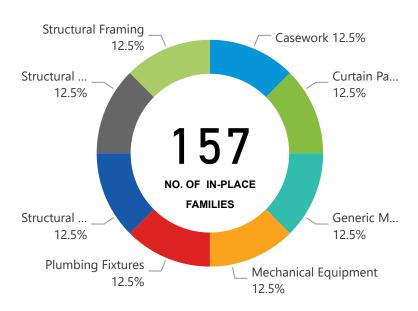
# 04106\_WyandotteLofts-A19-CENTRAL.rvt

MODEL NAME



Name	Value
04106-Galley Kitchen-unit20	3,484 K
04106-Galley Kitchen	3,012 K
04106-Galley Kitchen_UPGRADE	2,844 K
Kitchen Typ 4 - L	1,492 K
Kitchen Typ 5 - L	1,484 K
Kitchen Typ 2 - L	1,400 K
Kitchen Typ 3 - L	1,400 K
Kitchen Typ 1 - L	1,388 K
04106-Galley Kitchen-with 42 inch uppers	1,284 K
2nd floor windowsB	840 K
Overhead-Sectional-tall	816 K
2nd floor windows	808 K
3rd floor windows	736 K
3rd floor windowsB	696 K
2nd floor windowsD	684 K
3rd floor windowsC	656 K
2nd floor windowsC	528 K
04106-Counter Top w Sink_unit 20	496 K
3rd floor windowsD	496 K
04106-Counter Top w Sink	488 K
04106-Counter Top w Sink.0001	488 K
double vanity	464 K
Sheets - CD - E1 30 x 42	448 K
4106-kitchen microwave cabinet	436 K
4106-kitchen microwave cabinet_upgrade	436 K
single vanity	412 K





IN-PLACE FAMILIES		
Name	Element ID	^
Casework : CALLBOX : CALLBOX	3162905	
Curtain Panels : Curtain Panel : Curtain Panel	1156846	
Curtain Panels : Curtain Panel1 : Curtain Panel	353731	
Curtain Panels : Curtain Panel10 : Curtain Panel	999622	
Curtain Panels : Curtain Panel11 : Curtain Panel	1573023	
Curtain Panels : Curtain Panel12 : Curtain Panel	639309	
Curtain Panels : Curtain Panel13 : Curtain Panel	346784	
Curtain Panels : Curtain Panel14 : Curtain Panel	639183	
Curtain Panels : Curtain Panel2 : Curtain Panel	639544	
Curtain Panels : Curtain Panel3 : Curtain Panel	3114292	
Curtain Panels : Curtain Panel4 : Curtain Panel	639024	
Curtain Panels : Curtain Panel5 : Curtain Panel	1211406	
Curtain Panels : Curtain Panel6 : Curtain Panel	1211371	
Curtain Panels : Curtain Panel7 : Curtain Panel	1211344	
Curtain Panels : Curtain Panel8 : Curtain Panel	1211311	
Curtain Panels : Curtain Panel9 : Curtain Panel	1573086	
Generic Models : balconies2 : balconies	1224396	
Generic Models : balconies3 : balconies	1224942	
Generic Models : balconies4 : balconies	1232141	
Generic Models : balconies5 : balconies	2649219	
Generic Models : balconies7 : balconies	2651464	
Generic Models : Generic Models 1 : Generic Models 1	2237289	
Generic Models : Generic Models 2 : Generic Models 1	1457646	
Generic Models : Generic Models 3 : Generic Models 1	2237364	
Generic Models : Generic Models 4 : Generic Models 1	2237439	
Generic Models : Generic Models 5 : Generic Models 1	2237514	
Generic Models : tile shower : tile shower	957080	
Generic Models : tile shower1 : tile shower	957112	V
Mechanical Equipment : hvac 22 x 1 : hvac 22 x 28	3670567	

Model Groups

# 04106\_WyandotteLofts-A19-CENTRAL.rvt



#### MODEL NAME

