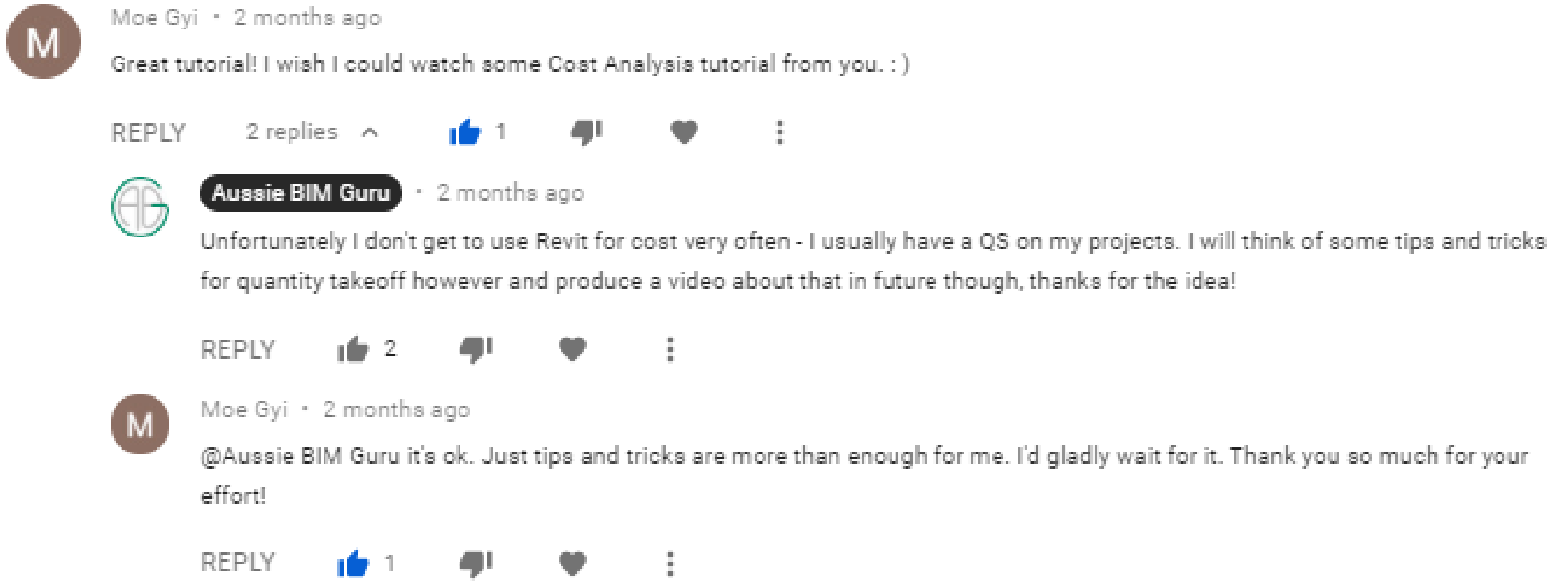
5D BIM (Estimating)

using Revit!

Thanks for the patience!



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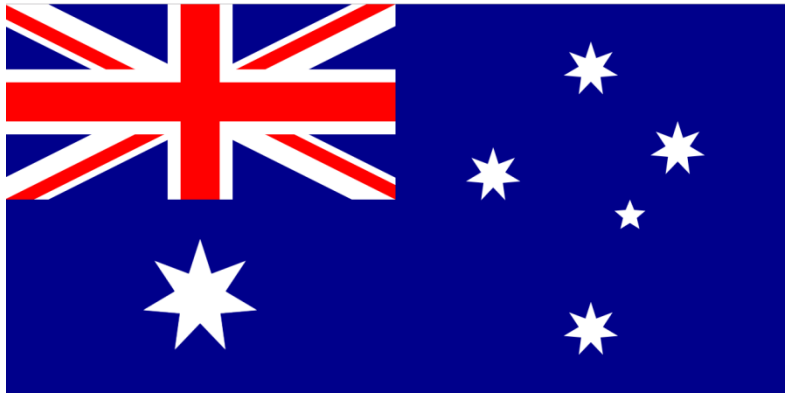
Thanks for the motivation!



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In this Video

1. 5D BIM – What is it?
2. Key considerations
3. Four Methods in **Revit (demo)**
4. Concluding advice

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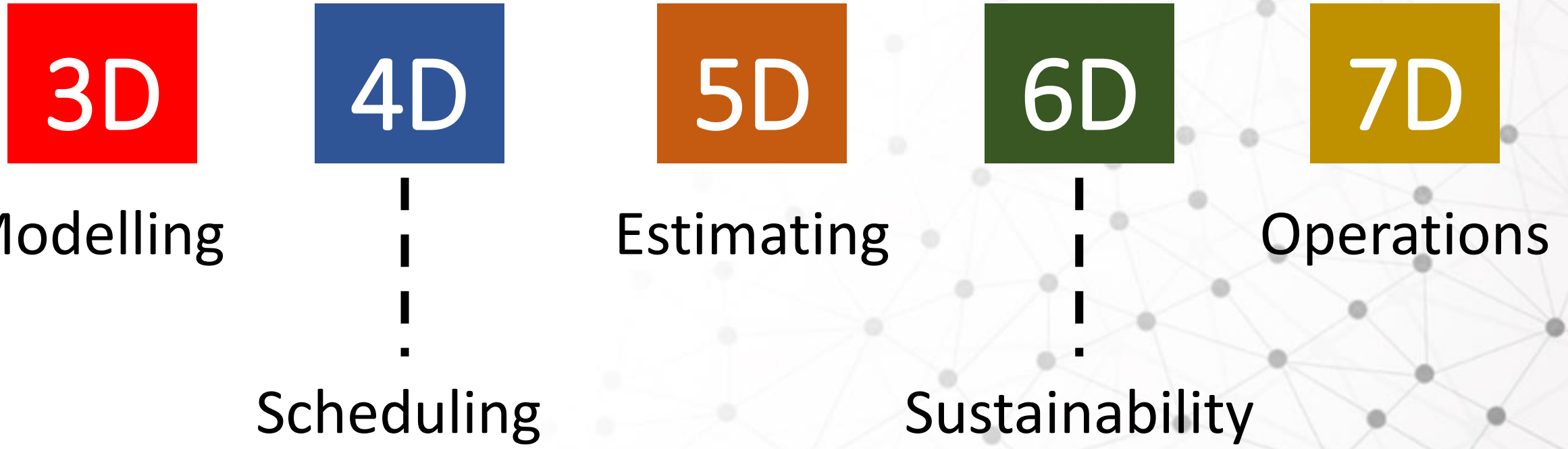
BIM Dimensions



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5D BIM

3D 4D **5D** 6D 7D

Estimating

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Today's focus

Cost planning → **How much**

Quantity take-off → **How many?**

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In Simpler Terms

How much

How many?

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For the Professionals

Note
I am not a Quantity Surveyor

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Key considerations

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BIM is **great** at 5D

When done right!!!

Don't be a

bean counter!

Use this!

Not this!

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Model it properly!

3D **Revit** Objects

Modelled **accurately**

Data management is critical

Categories used properly

Properties

Lines (Medium Lines) (10) | Edit Type

Constraints	
Work Plane	Level : Level 2
Moves With Nearby Elements	
Graphics	
Line Style	Medium Lines
Detail Line	
Dimensions	
Length	
Phasing	
Phase Created	Working Drawings
Phase Demolished	None

Properties help | Apply

Project Browser - rac_basic_sample_project.rvt

- Views (all)
  - Floor Plans
    - Level 1
    - Level 2
    - Site
  - 3D Views
    - Approach
    - From Yard
    - Kitchen

{3D}

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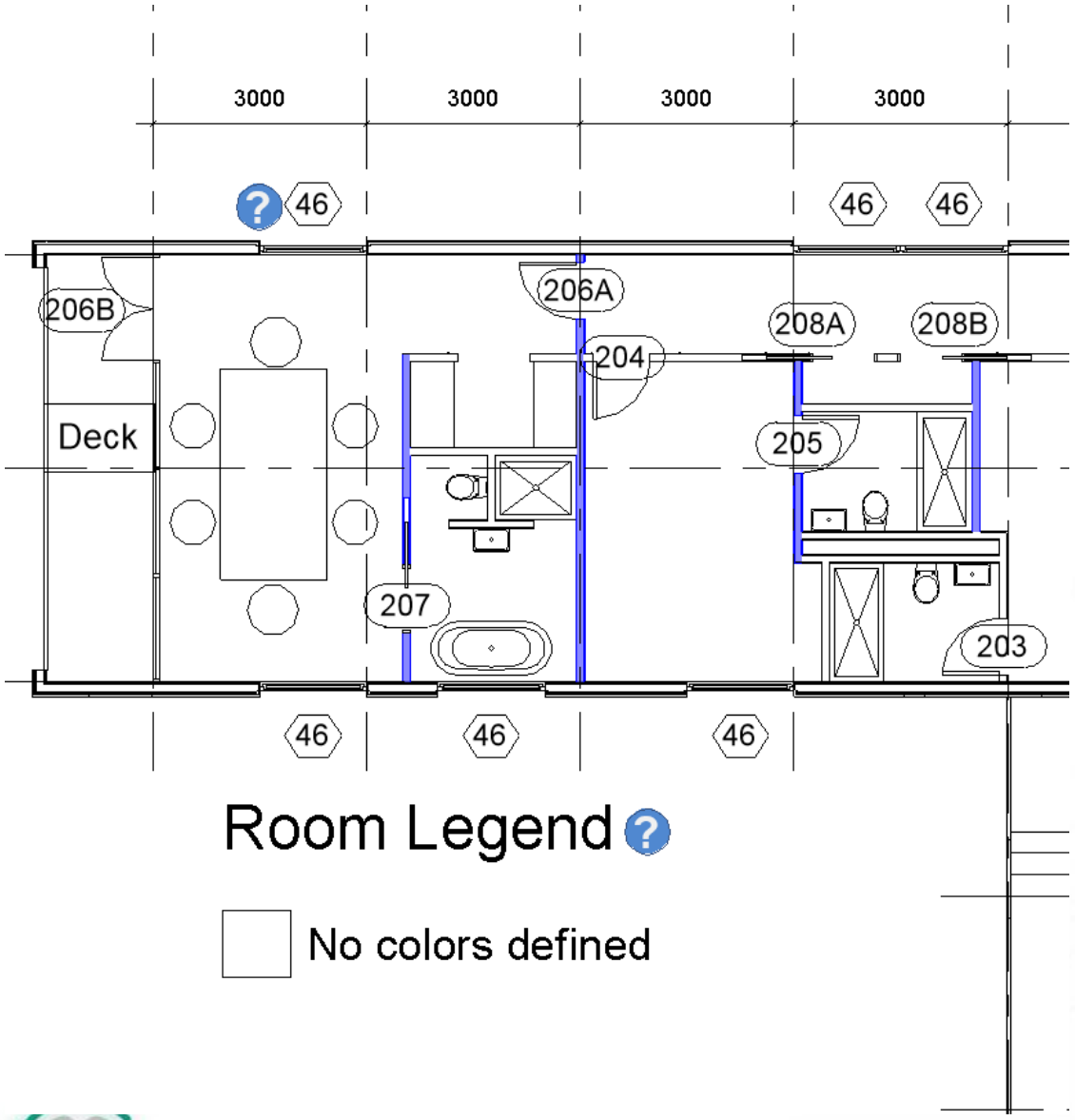

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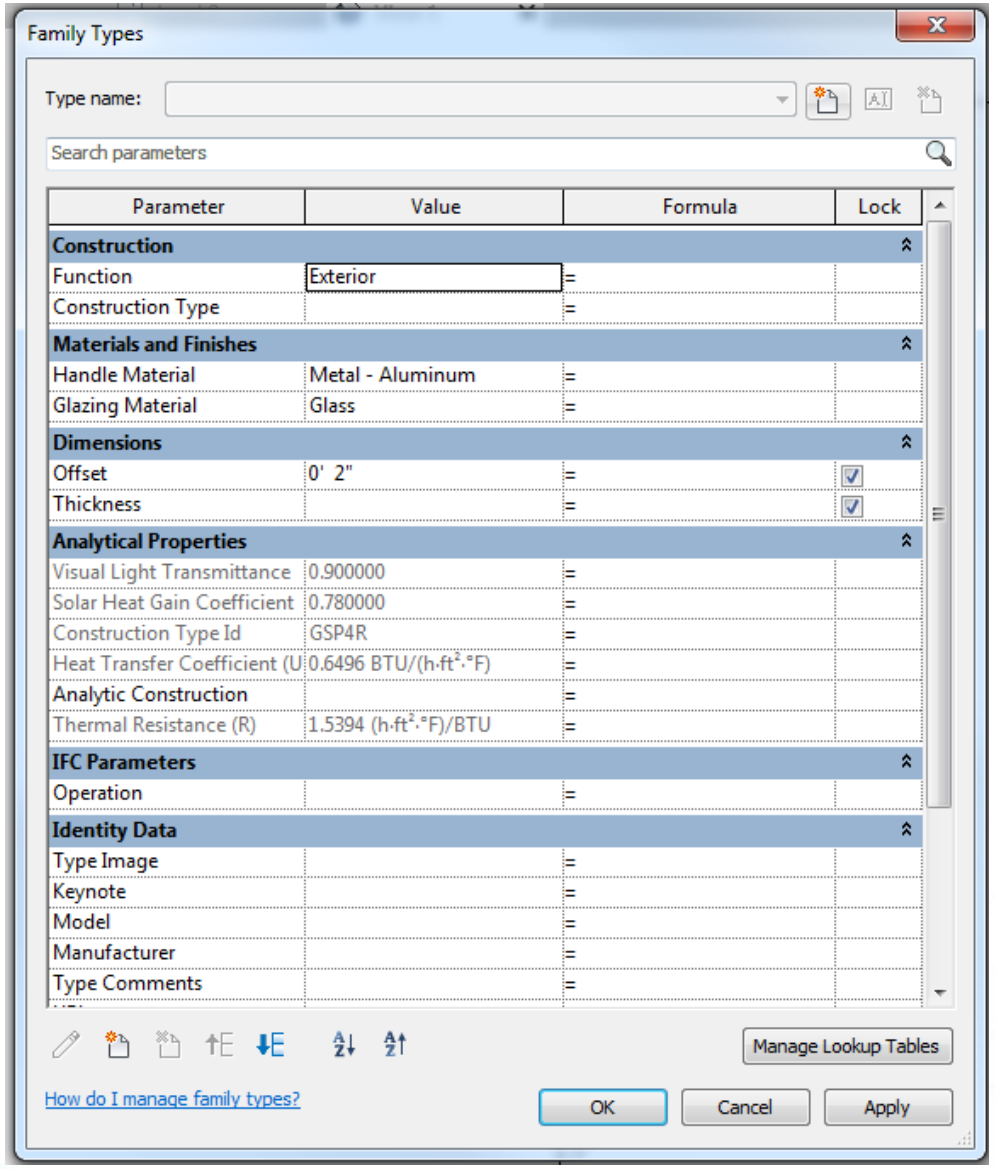

This is the only data Revit gets aside from family name and category!

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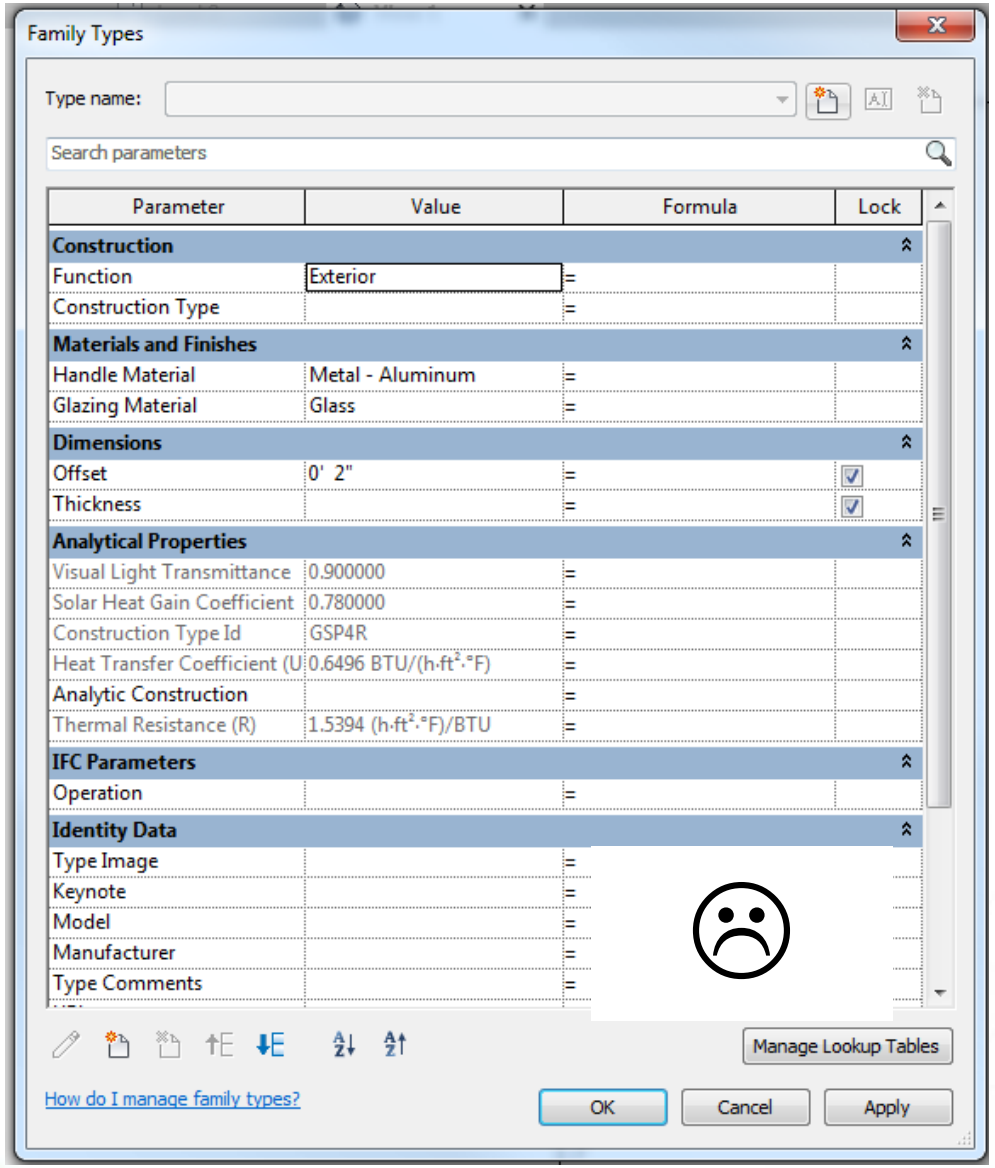

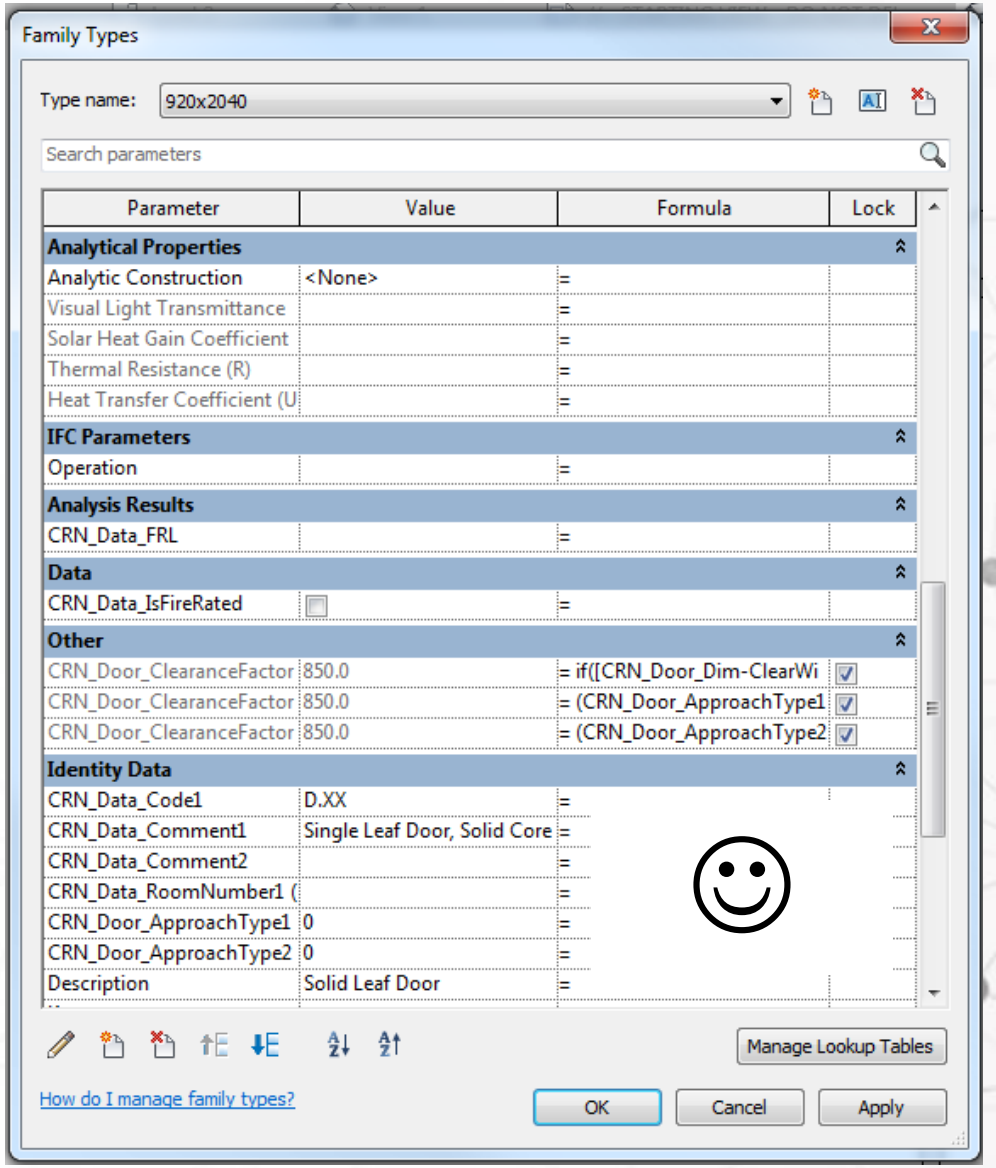

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Imagine…

RFA

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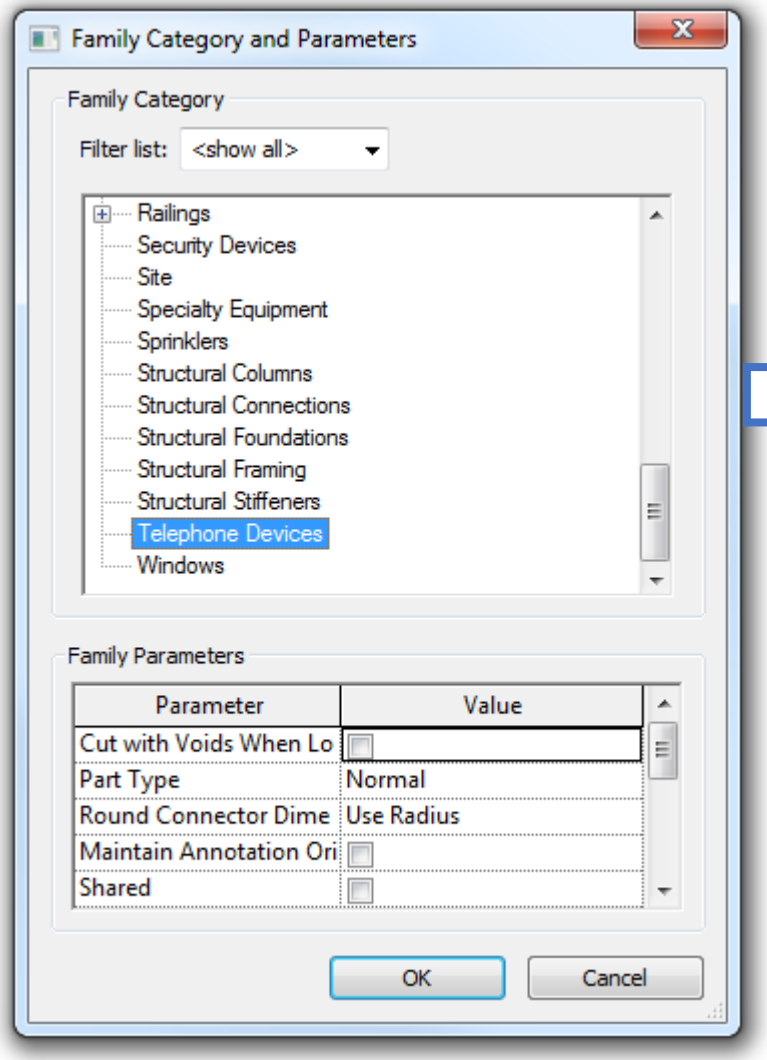

Hey, check out these

Telephone Devices

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Have a **Strategy**

Software doesn't dictate to us,
we dictate to it!

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Four methods in Revit

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1. Unit Cost by Count

How many chairs?
x Unit cost

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Demonstration

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2. Rate Cost by Data

Kitchen bench @
$XXX per linear m

Total = Width x Rate

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Demonstration

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3. Rate Cost by Inherent Data

Floor @
$XXX per m2

Total = Area x Rate

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Demonstration

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4. Rate Cost by Material

Paint @
$XXX per m2

Total = Area x Rate

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Demonstration

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Bringing it all together

Dynamo/Plugins

Or

Export/merge in Excel

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Things to remember

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When in doubt, **check**

When not in doubt,
check anyway

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Remember, you are **not** the **QS**

Amused Quantity Surveyor

Over confident Revit architect

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But they should **appreciate** it

Humble architect

Appreciated Quantity Surveyor

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And remember

No half-measures

(literally)

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