



## Revit MEP – Advanced Families

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## **Shared Parameters**

MEP has unit issues !! Make your own Shared Parameters File to combat them.

Not all system Assigned Parameters have units for some reason !  
This can cause headaches later on!

## **Systems**

The key to getting systems working is understanding connectors and what is required from them for each family category.

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## Plumbing Family

Setting Family Category and Parameters – Part Type

(What the hell is a SPUD!!!! Why do we need potatoes for plumbing!)

Spuds are Plug and Washer fittings for under urinals.

Assigning Connectors

- Linking Connectors to Parameters
- System Type
- Flow Direction and Configuration
- Loss method

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## **Plumbing Family - Look up Tables**

Pathing – Revit.ini

Making a Lookup Table. (.csv File)

Accessing the Lookup Table from the Family.

Formula usage :-

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## **HVAC Family**

Setting Family Category and Parameters – Part Type

Assigning Connectors

- Linking Connectors to Parameters
- System Type
- Shape

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## Electrical Equipment Family

Setting Family Category and Parameters – Part Type

Assigning Connectors

- Linking Connectors to Parameters
- System Type
- Load Classification
- Voltage (Needs to match Distribution System)
- Power factor (Manufacturer Supplied)
  - Leading (Capacitive Load) – Lagging (Inductive Loads)

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## Electrical Fitting Family

### IES Files

Pathing – Revit.ini

Only one folder available. Good naming convention required to manage.

IES File Format Check

- Loose the ;'s

Linking to a Light Fitting

Using for Design – Lumen Method

Now can be used for Rendering also

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*Thank you!*

Questions?

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