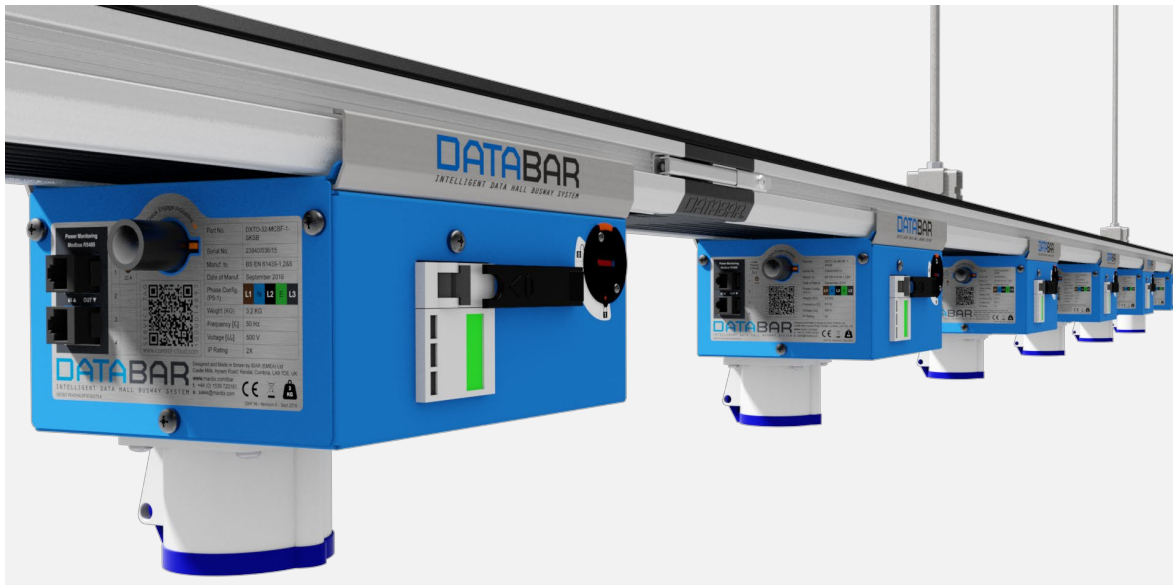




REVIT FAMILY USER GUIDE DATABAR





DATABAR RANGE

There are two ranges of DATABAR busway to choose from, **DX** & **DX Plus**.

DX ratings are 160A, 250A, 400A & 630A

DX Plus ratings are 800A & 1000A

MODELLING THE DATABAR BUSWAY FAMILIES

The DATABAR busway has been classified as “Cable Tray Fittings” in terms of Revit categories, so the connectors attaching the parts together have “Cable Tray Connectors”.

The common length of DATABAR busway is the 3m length, however other standard lengths of 1m and 2m lengths are available together with a Custom length family. The Custom lengths range from 500mm to 2950mm in increments of 50mm.

The vast majority of installations are straight runs, but, where there is a requirement to change direction, the system can employ elbows in left and right flatwise or edgewise 90 degree angles as standard. Other parts are the Cable End Feed Units & End Caps.

By default, it is assumed the DATABAR busway will be suspended from the hanging brackets. So, it is important to match the “Front” of the bar indicated on the Revit families as a coloured purple strip as shown (Fig 1). This feature is to prevent possible phase crossing and sets the Tap off face orientation

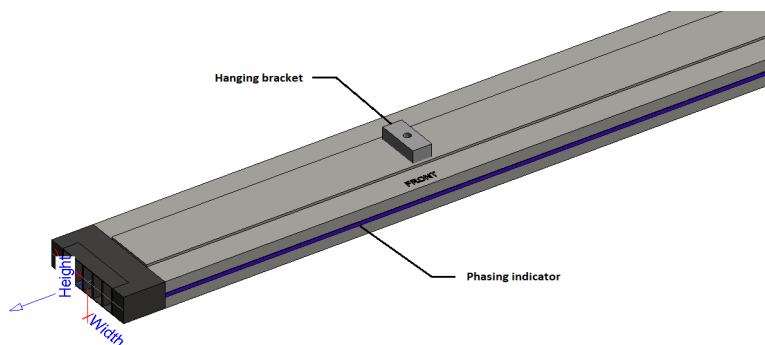


FIG 1.



MODELLING THE BUSBAR VERTICALLY

When modelling DATABAR vertically, it is important the phasing is correct and the purple strip is shown at the top of the bar as shown (Fig. 2)

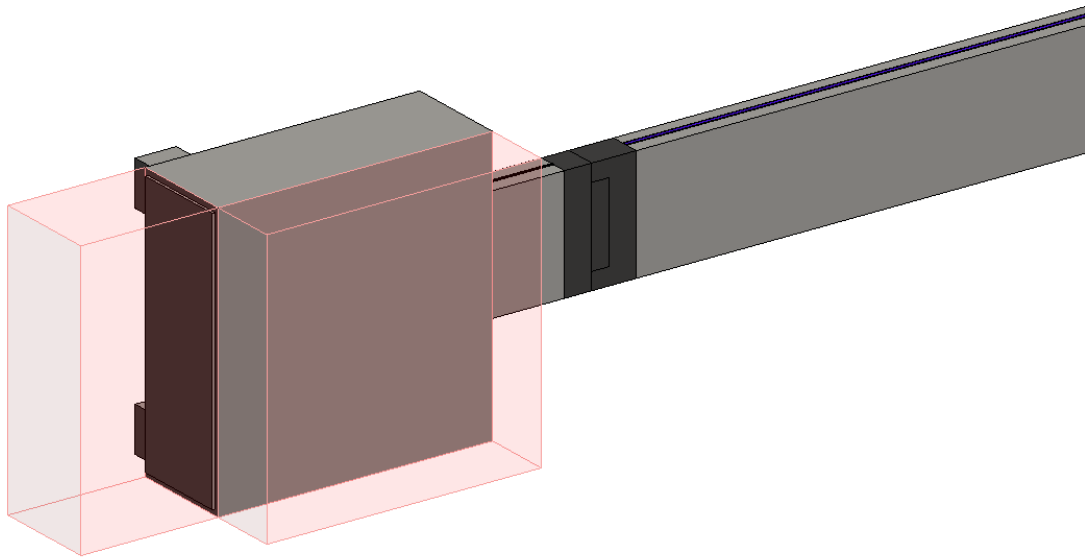


FIG. 2

The DATABAR Busway will require a vertical a special Vertical Support Bracket to support the bar on a vertical Unistrut frame.



USER INPUT

For each part of the DATABAR DX families, the user will choose from the drop-down list (Table 1) for the rating of 160A, 250A, 400A & 630A.

For the DX Plus families the options will be either 800A or 1000A.

Also, the user will chose “Databar No. of Poles” – Either “4P” or “5P”

Busway DATABAR-DX-Distribution Straight 3m 400A DATABAR Busway Length ST3 3000	
Cable Tray Fittings (1)	Edit Type
Constraints	
Level	Level 0
Host	Level : Level 0
Offset	0.0
Graphics	
Databar Horizontal Bracket	<input checked="" type="checkbox"/>
Use Annotation Scale	<input type="checkbox"/>
Text	
Databar Item No.	
Databar System Name	
Electrical Engineering	
Databar No. of Poles<Electrical Equip...	5P
Dimensions	
Bend Radius	
Bracket 1 Distance	500.0
Bracket 2 Distance	2500.0
Databar X	3000.0
Thickness	
Size	1 mmx1 mm-1 mmx1 mm
Identity Data	
Databar Distribution Code	ST3
Databar Part No.	SD
Image	
Service Type	
Comments	
Mark	
Busbar System Name	
Phasing	
Phase Created	New Construction
Phase Demolished	None
Other	
Databar Total Weight 4P	39.600 kg
Databar Total Weight 5P	45.801 kg
Weight conversion	3.0
Bend or Fitting	Fitting

TABLE 1



ADD IN TAP-OFF UNITS

A typical run will consist of:

- End Feed Unit
- DATABAR Busway
- End Cap

Once all the DATABAR has been modelled, then the tap-off units can be added. These are 'host' based families; hence they will attach to the DATABAR at the right level.

There is a selection in terms of:

- No. of Outlets - "Single Outlet", "Double Outlet", "Triple Outlet" & "Quad Outlet"
- Ratings of 16A, 32A or 63A
- SP, DP or TP
- Metered or unmetered

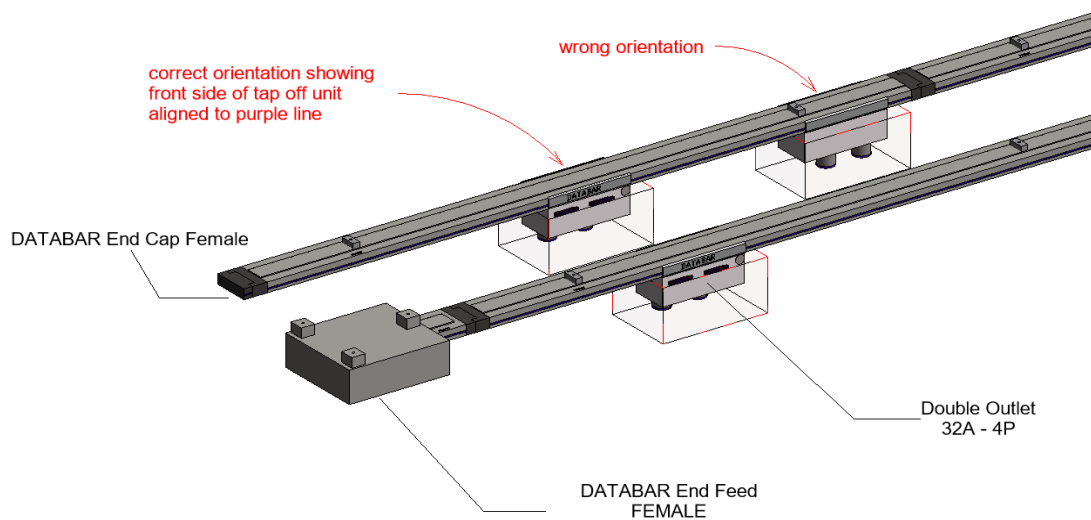


FIG 3.

When modelling the tap-off units, again ensure that the front side of the tap-off unit is in line with the "front" side of the DATABAR for the whole run.



CUSTOM REVIT FILES

The End Feed Units in the BIM library are as standard, however they may change in size according to the cable size.

The tap offs design can also vary with the outlets at a different angle.

Any of these custom items can be requested on the contact details below.

IF YOU HAVE ANY QUESTIONS,
PLEASE CONTACT US

sales.emea@anordmardix.com

www.anordmardix.com

Anord Mardix is a leading provider of power distribution and protection equipment to the global market.

We produce the most comprehensive product range in the market - from power to control and monitoring solutions through to our unique service capability.