Mardome Trade

TB269
Guidance for using the Mardome Trade BIM Revit Object

Guide for using Mardome Trade BIM Object for Revit

The Mardome Trade BIM Object has been created as a Revit Family (.rfa).

It is available in a large number of sizes which can be selected when loading the Mardome rfa into a project and further configured within the project (see below for configuration criteria).

The configuration data is contained within a .txt file of the same name which must remain in the same file location as the .rfa file.

CONFIGURATION CRITERIA FOR USE

SIZE	GLAZING (clear & opal tints only)				VENTILATION			OPENING OPTION				
						AHCV		MLD	PCD	PCR	PCS	
	TRIPLE SKIN	QUAD SKIN	STRUCTURED PC INNER	ARGON FILLED GLASS INNER	TRICKLE VENT	AUTOMATIC HUMIDITY CONTROLLED VENT	POWER VENT²	MANUAL OPENING	POWERED OPENING - SWITCH OPERATED	POWERED OPENING - REMOTE CONTROL	POWERED OPENING - REMOTE + RAIN SENSOR	MARDOME SOLAR¹
450 x 450	•	•	•	•	•	x	x	x	x	x	x	x
600 x 600	•	•	•	•	•	•	x	•	•	•	•	•
600 x 750	•	•	•	•	•	•	•	•	•	•	•	•
600 x 900	•	•	•	•	•	•	•	•	•	•	•	•
600 x 1050	•	•	•	•	•	•	•	•	•	•	•	•
600 x 1200	•	•	•	•	•	•	•	•	•	•	•	•
600 x 1500	•	•	•	•	•	•	•	•	•	•	•	•
600 x 1800	•	•	•	•	•	•	•	•	•	•	•	•
750 x 750	•	•	•	•	•	•	•	•	•	•	•	•
750 x 900	•	•	•	•	•	•	•	•	•	•	•	•
750 x 1050	•	•	•	•	•	•	•	•	•	•	•	•
750 x 1350	•	•	•	•	•	•	•	•	•	•	•	•
900 x 900	•	•	•	•	•	•	•	•	•	•	•	•
900 x 1200	•	•	•	•	•	•	•	•	•	•	•	•
900 x 1350	•	•	•	•	•	•	•	•¹	•	•	•	•
900 x 1500	•	•	•	•	•	•	•	•¹	•	•	•	•
900 x 1800	•	•	•	•	•	•	•	•¹	•	•	•	•
1050 x 1050	•	•	•	•	•	•	•	•¹	•	•	•	•
1050 x 1350	•	•	•	•	•	•	•	•¹	•	•	•	•
1050 x 1500	•	•	•	•	•	•	•	•¹	•	•	•	•
1050 x 1650	•	•	•	•	•	•	•	•¹	•	•	•	•
1200 x 1200	•	•	•	•	•	•	•	•¹	•	•	•	•
1200 x 1500	•	•	•	•	•	•	•	•¹	•	•	•	•
1200 x 1800	•	•	•	x	•	•	•	•	•	•	•	•
1200 x 2400	•	•	•	x	•	•	•	x	x	x	x	x
1350 x 1350	•	•	•	•	•	•	•	•¹	•	•	•	•
1350 x 1800	•	•	•	x	•	•	•	x	x	x	x	x
1500 x 1500	•	•	•	x	•	•	•	x	x	x	x	x
1650 x 1650	•	•	•	x	•	•	•	x	x	x	x	x
1800 x 1800	•	•	•	x	•	•	•	x	x	x	x	x

• Available
x Not available

[1] Not available with Glass Inner (not contolled in the Revit family object)

[2] Power Vent cannot be used with an opening unit

[3] Burglar Bars not available with Acoustic Pack or MLD Manual Opening (not contolled in the Revit family object)

[4] Acoustic Pack available as fixed (non-vented & non-opening) on Sloped and Tall Kerbs only (not contolled in the Revit family object)

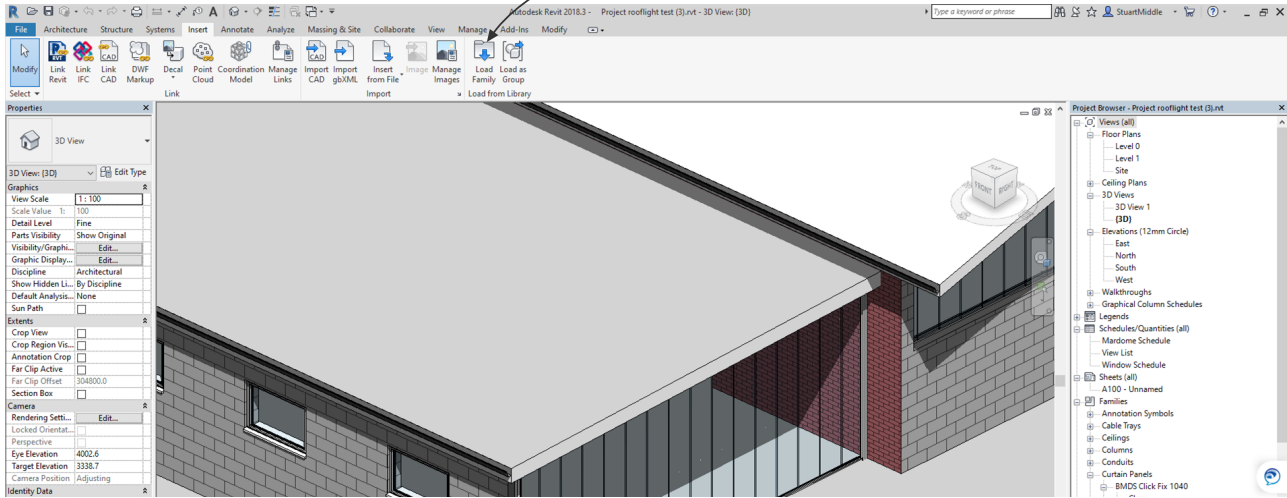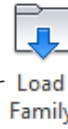# Brett Martin

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STEP 1
Save the BMDS_Mardome TRADE.rfa file with the corresponding .txt file into your Revit Family Object folder.

STEP 2
Load the .rfa file into your open project - Insert tab >> Load Family

Load Family

At this stage you now need to decide on which size of Mardome size(s) you require, you can select and load multiple options at the same time if required. When you have selected your type(s) select OK.

Family:

BMDS_Mardome TRADE (3).r

Types:

Type	Size	Width	Length	Shape	NonOpenable
	(all)	(all)	(all)	(all)	(all)
Mardome 450 x 450	450 x 450	450.0	450.0	Square	1
Mardome 600 x 600	600 x 600	600.0	600.0	Square	0
Mardome 600 x 750	600 x 750	600.0	750.0	Rectangular	0
Mardome 600 x 900	600 x 900	600.0	900.0	Rectangular	0
Mardome 600 x 1050	600 x 1050	600.0	1050.0	Rectangular	0
Mardome 600 x 1200	600 x 1200	600.0	1200.0	Rectangular	0
Mardome 600 x 1500	600 x 1500	600.0	1500.0	Rectangular	0
Mardome 600 x 1800	600 x 1800	600.0	1800.0	Rectangular	0
Mardome 750 x 750	750 x 750	750.0	750.0	Square	0
Mardome 750 x 900	750 x 900	750.0	900.0	Rectangular	0
Mardome 750 x 1050	750 x 1050	750.0	1050.0	Rectangular	0
Mardome 750 x 1350	750 x 1350	750.0	1350.0	Rectangular	0
Mardome 900 x 900	900 x 900	900.0	900.0	Square	0
Mardome 900 x 1200	900 x 1200	900.0	1200.0	Rectangular	0
Mardome 900 x 1350	900 x 1350	900.0	1350.0	Rectangular	0
Mardome 900 x 1500	900 x 1500	900.0	1500.0	Rectangular	0
Mardome 900 x 1800	900 x 1800	900.0	1800.0	Rectangular	0
Mardome 1050 x 1050	1050 x 1050	1050.0	1050.0	Square	0
Mardome 1050 x 1350	1050 x 1350	1050.0	1350.0	Rectangular	0
Mardome 1050 x 1500	1050 x 1500	1050.0	1500.0	Rectangular	0
Mardome 1050 x 1650	1050 x 1650	1050.0	1650.0	Rectangular	0
Mardome 1200 x 1200	1200 x 1200	1200.0	1200.0	Square	0
Mardome 1200 x 1500	1200 x 1500	1200.0	1500.0	Rectangular	0
Mardome 1200 x 1800	1200 x 1800	1200.0	1800.0	Rectangular	0

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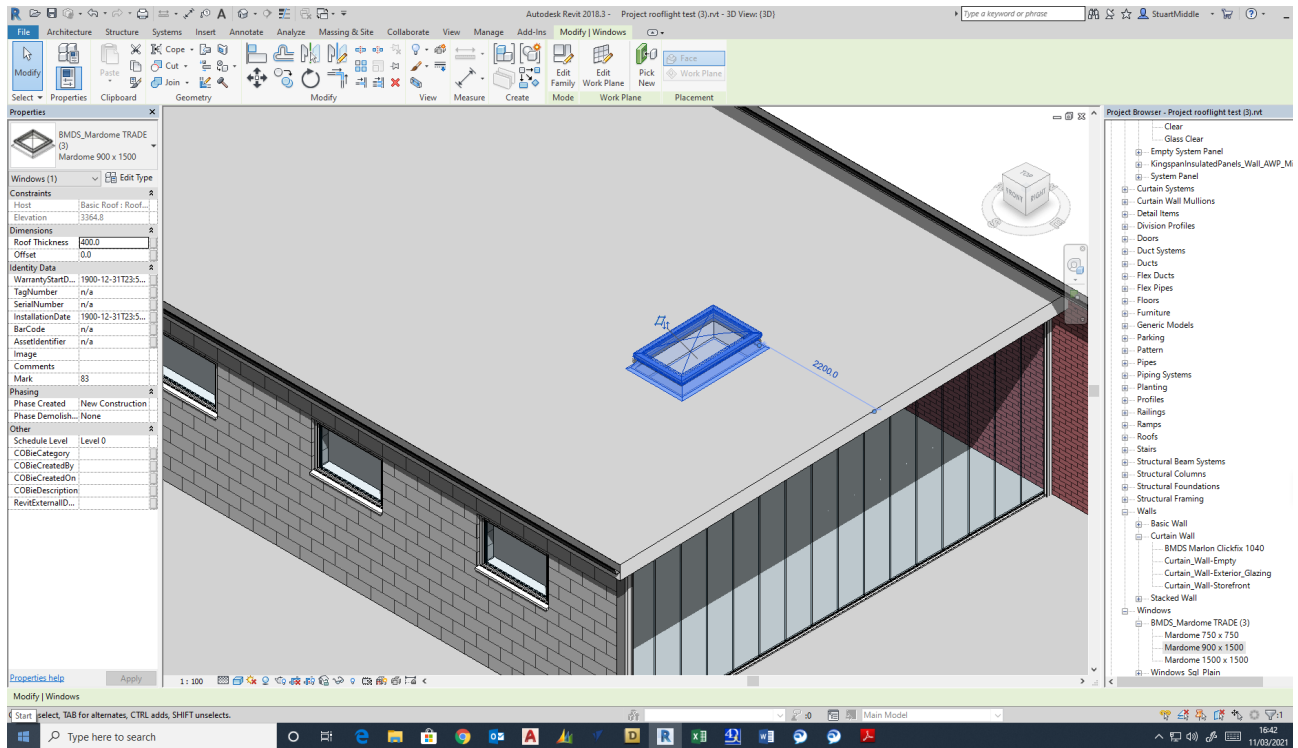
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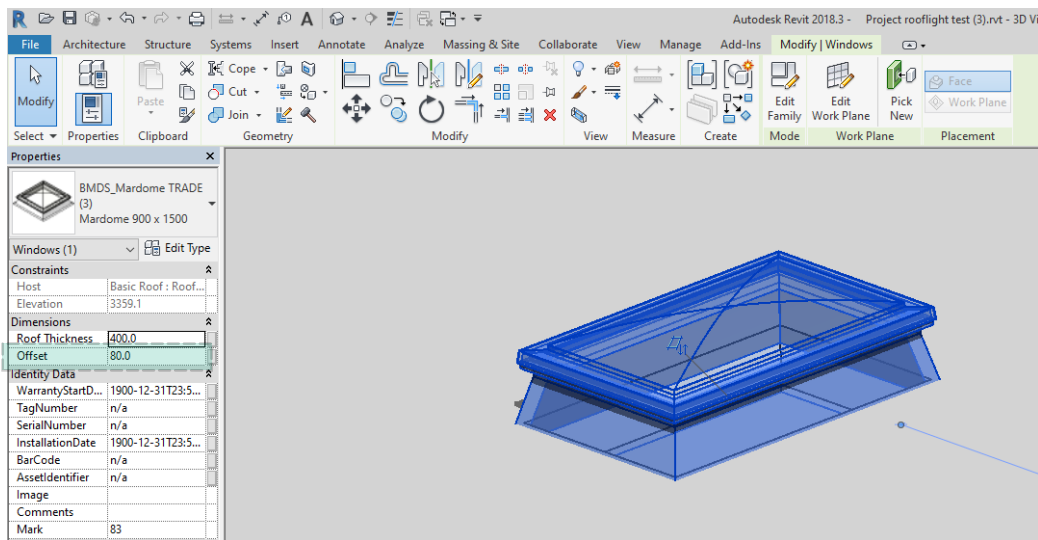## BIM Revit Object

STEP 3
The object(s) will now be available for use from the Project Browser, under Families >> Windows >> Mardome Trade.

a) the easiest way to use them is to drag directly from the Project Browser onto the required roof, the object sits on the outer surface of the roof (please note: the maximum roof pitch for the Mardome Trade is 15°).

b) There is the option to position the object below the outer surface level if required (this is mainly for use with the Tall Kerb option), this is done by entering the offset value required in the Properties tab as shown below.

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STEP 4
The Mardome Family Type your have selected can now be further configured to the specific type your require. Select the object to be configured then select Type Properties   and configure as follows:

Dome or Pyramid
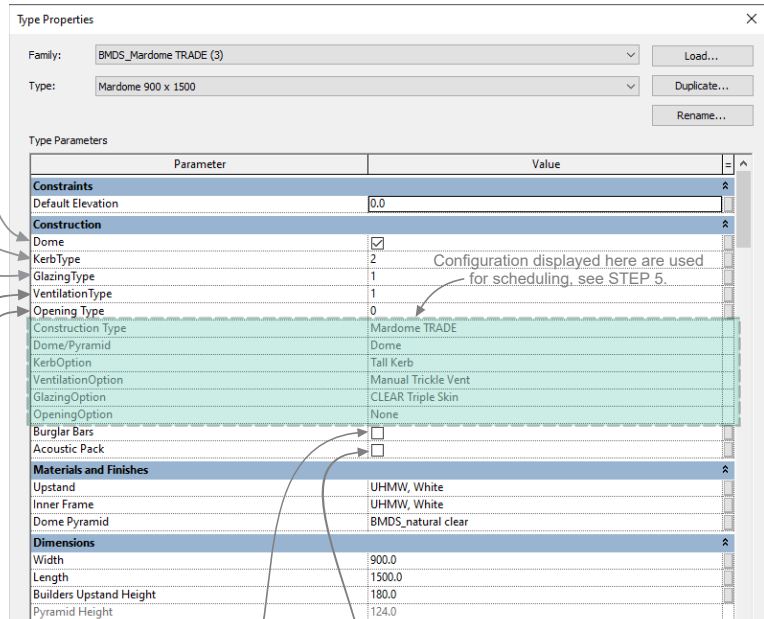For Dome *tick*, for Pyramid *un-tick*

Kerb Type
1 - Sloped Kerb
2 - Tall Kerb
3 - Builders Upstand)

Glazing Type
1 - Clear TRIPLE SKIN
2 - Clear QUAD SKIN
3 - Clear STRUCTURED PC INNER
4 - Clear ARGON FILLED GLASS INNER
5 - Opal TRIPLE SKIN
6 - Opal QUAD SKIN
7 - Opal STRUCTURED PC INNER
8 - Opal ARGON FILLED GLASS INNER

Ventilation Type
0 - None
1 - Manual Trickle Vent
2 - Automatic Humidity Controlled Trickle Vent
3 - Power Vent (available on non-opening units only)

Opening Type
0 - None
1 - MLD Manual opening
2 - PCD Powered Opening - Switch Operated
3 - PCR Powered Opening - Remote Control
4 - PCS Powered Opening - Remote Control
      & Rain sensor
5 - Mardome Solar (not available with glass inner)

(Please note: some sizes and glazing types are not available with an opening option, please see configuration criteria for more details)

Type Properties window:

Family: BMDS_Mardome TRADE (3)

Type: Mardome 900 x 1500

Type Parameters

Parameter	Value
Constraints	
Default Elevation	0.0
Construction	
Dome	☑
KerbType	2
GlazingType	1
VentilationType	1
Opening Type	0
Construction Type	Mardome TRADE
Dome/Pyramid	Dome
KerbOption	Tall Kerb
VentilationOption	Manual Trickle Vent
GlazingOption	CLEAR Triple Skin
OpeningOption	None
Burglar Bars	☐
Acoustic Pack	☐
Materials and Finishes	
Upstand	UHMW, White
Inner Frame	UHMW, White
Dome Pyramid	BMDS_natural clear
Dimensions	
Width	900.0
Length	1500.0
Builders Upstand Height	180.0
Pyramid Height	124.0

Configuration displayed here are used for scheduling, see STEP 5.

Burglar Bars
Tick for Burglar Bars
(please ensure you select only when suitable for your specific configuration, see configuration criteria)

Acoustic Pack
Tick for Acoustic Pack
(please ensure you select only when suitable for your specific configuration, see configuration criteria)

>> Please ensure the Mardome configuration meets the criteria for use as detailed on page 1 <<

STEP 5
The Mardome Trade rooflights used in the project can be scheduled with the suggested parameters:

<Mardome Schedule>							
A	B	C	D	E	F	G	H
Manufacturer	Construction Type	Size	GlazingOption	KerbOption	Dome/Pyramid	VentilationOption	OpeningOption
Brett Martin Daylight Systems	Mardome TRADE	900 x 900	CLEAR Triple Skin	Tall Kerb	Dome	Automatic Humidity Controlled Trickle Vent	Access Hatch
Brett Martin Daylight Systems	Mardome TRADE	900 x 900	CLEAR Triple Skin	Tall Kerb	Dome	Automatic Humidity Controlled Trickle Vent	Access Hatch
Brett Martin Daylight Systems	Mardome TRADE	1050 x 1500	CLEAR Triple Skin	Sloped Kerb	Pyramid	Manual Trickle Vent	Access Hatch

Other parameters can also be used where applicable.

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