Mardome Trade

NBS126

Mardome Trade
NBS Specification

Consult Brett Martin Daylight Systems early in the design process as we can provide in-depth assistance with design and specification.

Mardome Trade is the 'standard' specification dome unit in our Mardome range.

Providing excellent insulation, triple skin Mardome rooflights boast a U_r-value which ranges from 1.26 W/m^{2}K to 1.93 W/m^{2}K. Higher performance glazing can further reduce the U_r-value to as low as 1.01 W/m^{2}K, as seen in the table below:

- Contemporary low rise profile (dome and pyramid options).
- Save energy and CO_2 emissions with options to reduce the U_r-value to as low as 1.01 W/m^{2}K.
- Constant separation of glazing skins across full width of dome including fixing flange on triple skin and better glazing - avoids cold spots and minimises condensation risks.
- All components of powered opening domes (230V) are hidden for a streamlined light well.
- Extensive options to satisfy requirements for ventilation and light transmission.
- For ease of installation the tapered kerb foot does not require timber fillets.
- Secured by Design approved option

The Mardome Trade range offers an economical quality rooflight option for a wide range of applications.

Thermal Performance (England, Scotland and Wales)

Rooflight Variant		Size range	Surface:area ratio	DOUBLE SKIN	TRIPLE SKIN	QUAD SKIN	DOME OVER GLASS	DOME OVER STRUCTURED
				U_r / U_{rc} value	U_r / U_{rc} value	U_r / U_{rc} value	U_r / U_{rc} value	U_r / U_{rc} value
				W/(m^2.K)	W/(m^2.K)	W/(m^2.K)	W/(m^2.K)	W/(m^2.K)
Unvented, Fixed Rooflight on Builders Upstand	(U_r)	600 x 600	1.11	1.94	1.26	1.01	1.04	1.39
		1800 x 2400	1.03	2.66	1.77	1.35	1.25	1.37
Vented or Opening Rooflight on Builders Upstand	(U_r)	600 x 600	1.72	2.24	1.79	1.63	1.66	1.88
		1800 x 2400	1.22	2.67	1.93	1.56	1.48	1.58
Rooflight with standard 150mm Sloped Kerb	($U_{rc\ 150}$)	600 x 600	2.52	2.14	1.84	1.73	1.75	1.90
		1800 x 2400	1.44	2.56	1.92	1.62	1.55	1.63
Rooflight with standard 300mm Tall Kerb	($U_{rc\ 300}$)	600 x 600	3.59	1.96	1.75	1.67	1.68	1.79
		1800 x 2400	1.74	2.38	1.85	1.60	1.54	1.61

*The overall thermal performance of rooflights is still referred to as a U_d-value in the building regulations, rather than U_r/U_{rc} value as per the calculation method. Values stated are therefore equivalent to a U_d-value assessed horizontally.

Tint	Lighting effect	Light Transmission (%) DIN 5036		
		Single Skin	Double Skin	Triple Skin
Clear	High Visibility	85%	78%	72%
Patterned	Privacy	78%	72%	66%
Opal	Diffused Light & Solar Control	35%	32%	30%

Consult Brett Martin Daylight Systems technical literature for further details.
Full NBS Specification clause on page 2 and 3

Brett Martin

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Email: daylight@brettmartin.com **Web:** www.brettmartin.com

Product ref: Mardome Trade rooflight - 'Standard' Specification Dome

Type: Sleek, contemporary aesthetics inside and out:
Low rise curved profile glazing / Low rise pyramid profile glazing

Ventilation options:
None / Trickle Vent (8400mm^{2}per dome) / Mardome Powervent Extraction Ventilation (55-880 m^3/hr depending on spec).
Opening options:
Fixed / Fixed Secured by Design / Manual Linear Drive (MLD) / Powered Chain Drive (PCD) / Access Hatch

Size: Rooflight size in mm equals roof opening size when supplied with kerb or overall external dimension of builders upstand if not supplied with BMDS kerb (some sizes not available with opening units. Consult Brett Martin Daylight Systems for details):
450 x 450 / 600 x 600 / 600 x 750 / 600 x 900 / 600 x 1050 / 600 x 1200 / 600 x 1350 / 600 x 1500 / 600 x 1650 / 600 x 1800 / 750 x 750 / 750 x 900 / 750 x 1050 / 750 x 1200 / 750 x 1350 / 750 x 1500 / 750 x 1650 / 750 x 1800 / 750 x 1950 / 900 x 900 / 900 x 1050 / 900 x 1200 / 900 x 1350 / 900 x 1500 / 900 x 1650 / 900 x 1800 / 900 x 1950 / 900 x 2100 / 1050 x 1050 / 1050 x 1200 / 1050 x 1350 / 1050 x 1500 / 1050 x 1650 / 1050 x 1800 / 1050 x 1950 / 1050 x 2100 / 1050 x 2250 / 1200 x 1200 / 1200 x 1350 / 1200 x 1500 / 1200 x 1650 / 1200 x 1800 / 1200 x 1950 / 1200 x 2100 / 1200 x 2250 / 1200 x 2400 / 1350 x 1350 / 1350 x 1500 / 1350 x 1650 / 1350 x 1800 / 1350 x 1950 / 1350 x 2100 / 1350 x 2250 / 1350 x 2400 / 1500 x 1500 / 1500 x 1650 / 1500 x 1800 / 1500 x 1950 / 1500 x 2100 / 1500 x 2250 / 1500 x 2400 / 1650 x 1650 / 1650 x 1800 / 1650 x 1950 / 1650 x 2100 / 1650 x 2250 / 1650 x 2400 / 1800 x 1800 / 1800 x 1950 / 1800 x 2100 / 1800 x 2250 / 1800 x 2400.
Non-standard sizes also available (...mm x...mm roof opening.)

Frame: Rigid PVC frame where applicable for specification.

Kerb: Rigid Multiwall PVC kerb, designed to fit directly to roof structural element (by others).
Direct Fix (DF) kerb (PVC kerb applied to existing builders upstand for ventilated or opening options) / Standard kerb (maximum roof covering termination height of 150mm) / Tall kerb (maximum roof covering termination height of 300mm) / Dome only option for fitting direct to existing Builders Upstand.

Glazing Details: Constant separation of glazing skins across full width of dome including fixing flange on triple skin and better glazing avoids cold spots and minimises condensation risks. Outer glazing to be 3mm Marlon FSX Polycarbonate glazing with co-extruded UV protection.
Thermal Options:
Single Skin / Double Skin / Triple Skin / Quad Skin / Structured Polycarbonate inner / Argon Filled Glass inner

Tint options:
Clear / Patterned / Opal
See table for U-values and light transmission levels.
Fire performance: Class B-s1, d0 to BS EN 13501-1.

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Other Requirements:

10 year commercial products warranty available on Mardome range.
Acoustic Pack available for increased noise insulation.
Security Grille available for increased dome security.
BBA Approval (certificate number 06/4385)

Fixing:

In accordance with Brett Martin Daylight Systems' fixing recommendations.
Fixings included to attach kerb to timber deck.

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