

Mardome Trades AOV Smoke Vent Rooflight

Brett Martin Daylight Systems Mardome Trade Smoke Vents are individual polycarbonate dome rooflights intended for installation on flat roofs of all modern building types to provide natural smoke and heat exhaust ventilation and comfort ventilation. Mardome Trade Smoke Vents are designed and manufactured under an ISO9001 approved quality system. These products are fully tested and certified in accordance with EN12101-2 :2003.

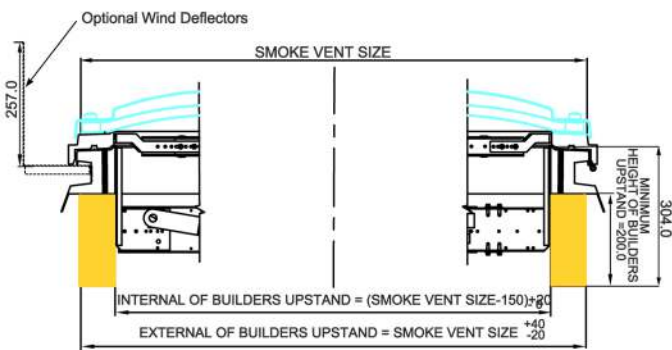
MATERIAL

- Double or triple polycarbonate layers
- Clear, Opal or Patterned glazing
- UV Stable PVC-u white Upstand

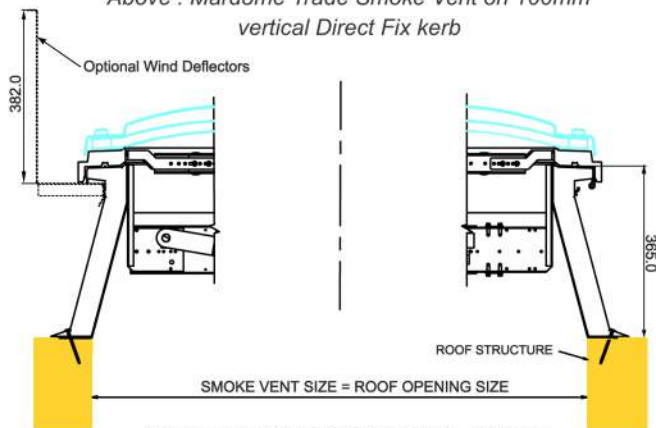
PERFORMANCE

- Fully tested and certified to EN12101-2 : 2003
- U Value 1.8 W/m²K based on triple layer
- PVC Upstand U-value 1.8 W/m²K
- Class B-s1, d0 to BS EN 13501: Part 1

CAD Drawings



Above : Mardome Trade Smoke Vent on 100mm vertical Direct Fix kerb



Above : Mardome Trade Smoke Vent on 365mm sloped kerb



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

Available Sizes and Aerodynamic Free Area (A _a)												
Smoke Vent Size (mm)	Daylight Size (mm)	Mardome Smoke Vent on 100mm Vertical Direct Fix Kerb				Mardome Smoke Vent on 365mm Sloped Kerb				Free Area* (m ²)		
		Roof opening area (m ²)	Aerodynamic free area*		Roof opening area (m ²)	Aerodynamic free area*						
			Cv	Aa (m ²)		Cv	Aa (m ²)					
1050 x 1050	900 x 900	0.81	0.48	0.39	0.61	0.49	1.10	0.44	0.49	0.62	0.68	0.72
1200 x 1050	1050 x 900	0.95	0.46	0.43	0.61	0.58	1.26	0.42	0.53	0.63	0.79	0.85
1200 x 1200	1050 x 1050	1.10	0.47	0.52	0.61	0.67	1.44	0.44	0.63	0.62	0.90	1.01
1350 x 1050	1200 x 900	1.08	0.44	0.48	0.61	0.66	1.42	0.40	0.57	0.64	0.90	0.99
1350 x 1200	1200 x 1050	1.26	0.45	0.57	0.61	0.77	1.62	0.42	0.68	0.63	1.02	1.16
1350 x 1350	1200 x 1200	1.44	0.4	0.67	0.61	0.88	1.82	0.43	0.78	0.63	1.14	1.34
1500 x 1050	1350 x 900	1.22	0.42	0.51	0.61	0.74	1.58	0.39	0.61	0.64	1.01	1.12
1500 x 1200	1350 x 1050	1.42	0.43	0.61	0.61	0.86	1.80	0.40	0.72	0.64	1.15	1.32
1500 x 1350	1350 x 1200	1.62	0.44	0.72	0.61	0.99	2.03	0.41	0.83	0.64	1.29	1.52
1500 x 1500	1350 x 1350	1.82	0.45	0.83	0.60	1.09	2.25	0.42	0.95	0.63	1.42	1.72
1650 x 1050	1500 x 900	1.35	0.40	0.54	0.61	0.82	1.73	0.37	0.64	0.65	1.13	1.26
1650 x 1200	1500 x 1050	1.58	0.41	0.65	0.61	0.96	1.98	0.38	0.75	0.65	1.28	1.48
1650 x 1350	1500 x 1200	1.80	0.42	0.76	0.61	1.10	2.23	0.39	0.87	0.64	1.43	1.70
1650 x 1500	1500 x 1350	2.03	0.38	0.76	0.60	1.22	2.48	0.37	0.92	0.64	1.58	1.92
1650 x 1650	1500 x 1500	2.25	0.44	0.99	0.60	1.35	2.72	0.42	1.14	0.64	1.73	2.14
1800 x 1050	1650 x 900	1.49	0.38	0.56	0.61	0.91	1.89	0.35	0.66	0.66	1.25	1.39
1800 x 1200	1650 x 1050	1.73	0.39	0.68	0.61	1.06	2.16	0.36	0.78	0.66	1.42	1.64
1800 x 1350	1650 x 1200	1.98	0.40	0.79	0.61	1.21	2.43	0.37	0.91	0.65	1.58	1.88
1800 x 1500	1650 x 1350	2.23	0.41	0.91	0.60	1.34	2.70	0.39	1.04	0.65	1.75	2.12
1800 x 1650	1650 x 1500	2.48	0.42	1.04	0.60	1.49	2.97	0.40	1.18	0.64	1.91	2.37
1800 x 1800	1650 x 1650	2.72	0.43	1.17	0.60	1.63	3.24	0.41	1.33	0.64	2.07	2.61

*Aerodynamic Free Area (A_a) of NSHEV in accordance with EN12101-2 : 2003 Annex B Test Report No. 1368-CPR-T-040/2017-B
Free Area in accordance with Approved Document B (Volume 2), Appendix C

Mardome Thermal Efficiency			
	Centre Pane U-Value (W/m ² K)	U _v -Value (W/m ² K)	
		1050x1050mm	1800x1800mm
Double Skin Polycarbonate	2.70	1.80	2.04
Triple Skin Polycarbonate	1.80	1.37	1.49