

## BMDS CPR CE Marking Declaration of Performance

### Product Group **Dome & Pyramid Smoke Vent Rooflights**

#### Declaration Reference: CE-SMV-001

1. Unique identification code of the product-type:  
Mardome Natural Smoke and heat exhaust ventilator.  
Specific identification information is contained on the product label and shipping / delivery notes.
2. Type, batch or serial number or any other element allowing identification of the construction product as required under Article 11(4) of the CPR:  
Type number allowing identification is provided on the product label and shipping / delivery note.
3. Intended use or uses of the construction product, in accordance with the applicable harmonized technical specification, as foreseen by the manufacturer:  
Automatic opening dual purpose ventilator, intended to be used for fire and comfort ventilation.
4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required under Article 11(5):  
Brett Martin Daylight Systems Ltd,  
Sandford Close, Aldermans Green Industrial Estate, Coventry, CV2 2QU  
Tel 024 76602022 Fax 024 76602745 Email: covsales@brettmartin.com
5. Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2):  
Bill Hawker, Technical Director, Brett Martin Daylight Systems Ltd,  
Sandford Close, Aldermans Green Industrial Estate, Coventry, CV2 2QU
6. System or systems of assessment and verification of constancy of performance of the construction product as set out in CPR, Annex V:  
AVCP System 1
7. In case of the declaration of performance concerning a construction product covered by a harmonized standard:  
EN 12101-2 : 2003

Notified body I.F.I. Institut für Industrieaerodynamik GmbH (NB 1368) carried out tests in accordance with EN12101-2:2003 Annex B.  
Address -Welkenrather Str. 120, 52074 Aachen, Germany

Notified body RISE Research Institutes of Sweden AB (NB 0402) carried out tests in accordance with EN12101-2:2003 Annex C,D,E,F and G.  
Address -Box 857, SE-501 15 BORÅS, Sweden

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8. Declared performance:  
Certificate no - 0402-CPR-SC1063-17

 0402		
Brett Martin Daylight Systems Ltd Coventry, CV2 2QU  18		
EN 12101-2 : 2003  Automatic opening dual purpose ventilator, intended to be used for fire and comfort ventilation.		
ESSENTIAL CHARACTERISTICS	PERFORMANCE/CLASSIFICATION	HARMONISED EUROPEAN STANDARD (hEN)
Aerodynamic free vent area (Aa)	See table 1 on page 3	EN12101-2 : 2003 Annex B
Reliability	Re 1000	EN12101-2 : 2003 Annex C
Snow Load	SL 500	EN12101-2 : 2003 Annex D
Low ambient temperature	T (-15)	EN12101-2 : 2003 Annex E
Wind Load	WL 1500	EN12101-2 : 2003 Annex F
Heat Exposure	B 300	EN12101-2 : 2003 Annex G
Reaction to Fire	F	EN12101-2 : 2003 7.5.2.1

9. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 8. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

**Signed for and on behalf of the manufacturer by:**

Name      Bill Hawker                                      Function                                      Technical Director



Signature ..... Place & date of Issue      BMDS – 04-Jul-18

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Aerodynamic Free Vent Area of NSHEV in accordance with  
EN12101-2 : 2003 Annex B  
Test Report No. 1368-CPR-T-040/2017-B

Table 1 Available Sizes and Free Ventilation Area (Aa)											
Smoke Vent Size (mm)	Daylight Size (mm)	Mardome Smoke Vent on 100mm Vertical Direct Fix Kerb					Mardome Smoke Vent on 365mm Sloped Kerb				
		Roof opening area (m <sup>2</sup> )	Aerodynamic values				Roof opening area (m <sup>2</sup> )	Aerodynamic values			
			Standard		With Wind Deflectors			Standard		With Wind Deflectors	
			Cv	Aa (m <sup>2</sup> )	Cv	Aa (m <sup>2</sup> )		Cv	Aa (m <sup>2</sup> )	Cv	Aa (m <sup>2</sup> )
1050 x 1050	900 x 900	0.81	0.48	<b>0.39</b>	0.61	<b>0.49</b>	1.10	0.44	<b>0.49</b>	0.62	<b>0.68</b>
1200 x 1050	1050 x 900	0.95	0.46	<b>0.43</b>	0.61	<b>0.58</b>	1.26	0.42	<b>0.53</b>	0.63	<b>0.79</b>
1200 x 1200	1050 x 1050	1.10	0.47	<b>0.52</b>	0.61	<b>0.67</b>	1.44	0.44	<b>0.63</b>	0.62	<b>0.90</b>
1350 x 1050	1200 x 900	1.08	0.44	<b>0.48</b>	0.61	<b>0.66</b>	1.42	0.40	<b>0.57</b>	0.64	<b>0.90</b>
1350 x 1200	1200 x 1050	1.26	0.45	<b>0.57</b>	0.61	<b>0.77</b>	1.62	0.42	<b>0.68</b>	0.63	<b>1.02</b>
1350 x 1350	1200 x 1200	1.44	0.4	<b>0.67</b>	0.61	<b>0.88</b>	1.82	0.43	<b>0.78</b>	0.63	<b>1.14</b>
1500 x 1050	1350 x 900	1.22	0.42	<b>0.51</b>	0.61	<b>0.74</b>	1.58	0.39	<b>0.61</b>	0.64	<b>1.01</b>
1500 x 1200	1350 x 1050	1.42	0.43	<b>0.61</b>	0.61	<b>0.86</b>	1.80	0.40	<b>0.72</b>	0.64	<b>1.15</b>
1500 x 1350	1350 x 1200	1.62	0.44	<b>0.72</b>	0.61	<b>0.99</b>	2.03	0.41	<b>0.83</b>	0.64	<b>1.29</b>
1500 x 1500	1350 x 1350	1.82	0.45	<b>0.83</b>	0.60	<b>1.09</b>	2.25	0.42	<b>0.95</b>	0.63	<b>1.42</b>
1650 x 1050	1500 x 900	1.35	0.40	<b>0.54</b>	0.61	<b>0.82</b>	1.73	0.37	<b>0.64</b>	0.65	<b>1.13</b>
1650 x 1200	1500 x 1050	1.58	0.41	<b>0.65</b>	0.61	<b>0.96</b>	1.98	0.38	<b>0.75</b>	0.65	<b>1.28</b>
1650 x 1350	1500 x 1200	1.80	0.42	<b>0.76</b>	0.61	<b>1.10</b>	2.23	0.39	<b>0.87</b>	0.64	<b>1.43</b>
1650 x 1500	1500 x 1350	2.03	0.38	<b>0.76</b>	0.60	<b>1.22</b>	2.48	0.37	<b>0.92</b>	0.64	<b>1.58</b>
1650 x 1650	1500 x 1500	2.25	0.44	<b>0.99</b>	0.60	<b>1.35</b>	2.72	0.42	<b>1.14</b>	0.64	<b>1.73</b>
1800 x 1050	1650 x 900	1.49	0.38	<b>0.56</b>	0.61	<b>0.91</b>	1.89	0.35	<b>0.66</b>	0.66	<b>1.25</b>
1800 x 1200	1650 x 1050	1.73	0.39	<b>0.68</b>	0.61	<b>1.06</b>	2.16	0.36	<b>0.78</b>	0.66	<b>1.42</b>
1800 x 1350	1650 x 1200	1.98	0.40	<b>0.79</b>	0.61	<b>1.21</b>	2.43	0.37	<b>0.91</b>	0.65	<b>1.58</b>
1800 x 1500	1650 x 1350	2.23	0.41	<b>0.91</b>	0.60	<b>1.34</b>	2.70	0.39	<b>1.04</b>	0.65	<b>1.75</b>
1800 x 1650	1650 x 1500	2.48	0.42	<b>1.04</b>	0.60	<b>1.49</b>	2.97	0.40	<b>1.18</b>	0.64	<b>1.91</b>
1800 x 1800	1650 x 1650	2.72	0.43	<b>1.17</b>	0.60	<b>1.63</b>	3.24	0.41	<b>1.33</b>	0.64	<b>2.07</b>