

# Technical Data Sheet

## HYDOME PYROPASS (Smoke ventilation unit)

Hydome Pyropass units are principally designed for smoke and heat extraction in protected stair wells and corridors within residential apartments, hotels, shops and offices.

They may be glazed in in single, double, triple, or quad skin polycarbonate or with aluminium insulated solid cover. The polycarbonate rooflights are available as clear, opal or heat reflect. The aluminium insulated covers are available as mill finish or powder coated to any RAL colour. The electric actuator is 24 volt DC and opens the units to 160 degrees within 60 seconds.

A wide range of upstands are available to accommodate roof insulation or an adaptor may be installed to builder's upstands.

Hydome Pyropass is suitable for roof access and to provide natural ventilation.



## Key benefits

- Fully certified to BS EN12101-2.
- Compliant with Building Regulations Approved Document B and L.
- Electric actuator is 24 volt DC and opens to 160° within 60 seconds.
- May incorporate roof access.
- Provides natural comfort ventilation.
- Certified Non-Fragile.
- Available as square, rectangular or circular units.
- Units may be glazed in polycarbonate or have an aluminium insulated solid cover.
- Wide range of upstands are available to accommodate roof insulation or an adaptor may be installed on to a builder's kerb.
- Open hold and release arm.

## Technical information

### Thermal Transmission

Values below are calculated U-Values unless denoted otherwise. Complete unit U- Values are available on request.

Typical values	U-Value (W/m <sup>2</sup> K)
Single glazed	5.36
Double glazed	2.68
Triple glazed	1.78
Quad glazed	1.37
Solid insulated cover 32mm	0.80
Solid insulated cover 64mm	0.48

Performance of glazing materials	
Typical values	Polycarbonate
Fire ratings	
To BS 476: Part 3	AA
To BS 476: Part 3	Class 1
To 1991 Building Regulations	Tp(a)
Service temperature	-50 to +120oC

Hydome Pyropass 160° actuator technical information		
	LM70100	LM100160
Voltage	24V DC	24V DC
Current (with load)	Max 2.5 amp	Max 4.0 amp
Opening angle	160°C	160°C
Ambient operating temperature	-15°C - +70°C	-15°C - +70°C
Operating time	< 60 seconds	< 60 seconds
Protection degree	min IP54	min IP54
Product life comfort cycles	10,000	10,000
Weight	23kg	25kg
Size	700 – 1000mm	1000 – 1600mm

- Polycarbonate rooflights BBA approved Certificate no. 00/4691.
- Manufactured to ISO 9001.
- Weather tightness to EN1873 Pass.
- Impact resistant to EN1873 1200 joules and ACRM Class B.
- Resistance to Heat B300 EN12101-2 Annex G.
- Snow Load SL1000 EN12101-2 Annex D-E.
- Wind Load WL1500 EN12101-2 Annex F.
- Low Ambient Temperature T (-15) EN12101-2 Annex D-E.

### Optional features

- Polyester powder coating, internal colour white 9010 as standard; any RAL colour available externally.
- Purpose made adaptor base available enabling the unit to be installed to builder's upstand curb or profile roof.
- Fall arrest grid certified to EN1873 Soft Body Impact 1200 joules is available for protection of opening when in the open position.
- Aerodynamic wind deflectors are available to optimize aerodynamic efficiency.
- A wide range of smoke controls and accessories are available including smoke & comfort control.

Fully Tested & Certified Size Range		
Internal Curb Size (Daylight)	External Curb Size	Single or Tandem Actuator (S or T)
<b>Square units</b>		
700 x 700	800 x 800	S
750 x 750	850 x 850	S
800 x 800	900 x 900	S
850 x 850	950 x 950	S
900 x 900	1000 x 1000	S
1000 x 1000	1100 x 1100	S
1050 x 1050	1150 x 1150	S
1100 x 1100	1200 x 1200	S
1200 x 1200	1300 x 1300	S
1300 x 1300	1400 x 1400	S
1400 x 1400	1500 x 1500	S
1500 x 1500	1600 x 1600	S
1550 x 1550	1650 x 1650	S
1600 x 1600	1700 x 1700	S
<b>Rectangular units</b>		
700 x 1000	800 x 1100	S
700 x 1300	800 x 1400	S
700 x 1500	800 x 1600	S
750 x 1050	850 x 1150	S
750 x 1250	850 x 1350	S
800 x 1100	900 x 1200	S
800 x 1300	900 x 1400	S
800 x 1400	900 x 1500	S
900 x 1200	1000 x 1300	S
900 x 1500	1000 x 1600	S
1000 x 1300	1100 x 1400	S
1000 x 1500	1100 x 1600	S
1000 x 1600	1100 x 1700	S
1000 x 1900	1100 x 2000	S
1000 x 2000	1100 x 2100	S
1000 x 2200	1100 x 2300	S
1000 x 2300	1100 x 2400	S
1000 x 2500	1100 x 2600	T
1000 x 2800	1100 x 2900	T
1050 x 1650	1150 x 1750	S
1050 x 2250	1150 x 2350	S
1100 x 1400	1200 x 1500	S

Fully Tested & Certified Size Range		
Internal Curb Size (Daylight)	External Curb Size	Single or Tandem Actuator (S or T)
1100 x 1700	1200 x 1800	S
1100 x 2300	1200 x 2400	S
1200 x 1400	1300 x 1500	S
1200 x 1500	1300 x 1600	S
1200 x 1800	1300 x 1900	S
1200 x 2100	1300 x 2200	S
1200 x 2400	1300 x 2500	T
1300 x 1600	1400 x 1700	S
1300 x 1900	1400 x 2000	S
1300 x 2000	1400 x 2100	S
1300 x 2200	1400 x 2300	S
1300 x 2300	1400 x 2400	S
1300 x 2500	1400 x 2600	T
1300 x 2800	1400 x 2900	T
1600 x 1900	1700 x 2000	T
1600 x 2000	1700 x 2100	T
1600 x 2200	1700 x 2300	T
1600 x 2300	1700 x 2400	T
1600 x 2500	1700 x 2600	T
1600 x 2800	1700 x 2900	T
<b>Circular units</b>		
1000	1100	S
1100	1200	S
1200	1300	S
1300	1400	S
1400	1600	S
1600	1600	S

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