



Natural Lighting by Monodraught



SUNPIPE Natural Lighting systems are a revolutionary new way to pipe Natural Daylight from rooftops into interiors to brighten areas from dawn to dusk where daylight from windows cannot reach. SUNPIPES are suited to almost any application, and have been installed anywhere from residential bedrooms to the Olympic Handball Arena in London.

Advantages

- **Reduced Carbon Emissions**
- **Education**
 - Increased achievement rates
 - Reduced fatigue factors
 - Improved health and attendance
 - Enhanced general development
- **Health Care**
 - Combats the condition of SAD
 - No maintenance no disruption
 - Typical payback period of 5 - 6 years
- **Retail**
 - Addition of skylights proven to produce a 40% increase in sales
- **Offices**
 - 20% increase in employee output
 - Reduced absence because of sickness
 - Reduced instances of Sick Building Syndrome (SBS)
- **Improved Health**
 - Boosted levels of Dopamine, Endorphins, Cortisone, Testosterone in men, and Vitamin D



Technical Information

SUNPIPE Selection Criteria

The process to choose the correct system for your building application is described below:

1. Choose Diamond Dome or Square SUNPIPE: 3. Roof Finish:

Diamond Dome



Square SUNPIPE



Plain Tile Roof



Slate Roof



2. Choose Roof Type: Pitched, Pitched Gallery or Flat roof:

Pitched



Pitched Gallery



Flat



Bold Roll Roof



Flat Felt/Asphalt Membrane Roof



Flat EPDM Rubber Roof



Contact us for more information on metal roofs.

4. Choose Additional/Optional Components (Please refer to page 6)



Features

- Glazing details: Clear impact modified acrylic diamond dome
- Lining: SUPER-SILVER® finish aluminium tube in 610 mm lengths
- Ceiling diffuser: Prismatic with white ceiling trim and 3 mm plywood (we do not supply plywood with the 750 or 1000 systems)

Advantages

- Generally no structural alterations required, easily fits between joists and rafters
- No maintenance required
- Top domes are self-cleaning due to their shape

Standards

- BS EN ISO 14001 and BS EN ISO 9001
- The FireGuard ceiling diffuser has been tested to comply with BS 476-20: 1987
- The Fire Choke collar has been fully tested to current British and European standards (test report TE 39902)

Options

- Other bespoke arrangements are available. For sizing guidance or further details, please contact Monodraught Head Office

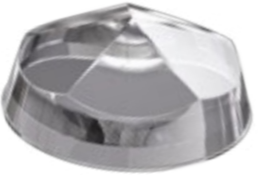









Approvals

- CE mark







SUNPIPE DIMENSIONS						
	230	300	450	530	750	1000
SUNPIPE Diameter [mm]	230	305	457	535	750	1000
Roof and Ceiling Opening Ø [mm]	250	320	470	550	770	1020

Product Components

Above Roof Components

<p>Diamond Dome SUNPIPE</p> <p>As standard we use high impact acrylic in our patented Diamond Domes which maximises the penetration of natural daylight.</p> 	<p>Sealing Gasket</p> <p>Brushed nylon condensation sealing gasket.</p> 	
<p>Gore® Vent Technology</p> <p>GORE vent technology uses a waterproof membrane whilst still allowing the pipe to breathe. This ensures the pipe is completely sealed against dust and water ingress and ensures that there will be no condensation on the inside of the dome.</p> 	<p>Code 4 Lead Flashing and ABS Collar</p> <p>Mouldable to suit any profiled/ bold-roll tile, providing a completely watertight finish. Supplied with an ABS collar for diamond dome mounting.</p> 	<p>Composite EPDM Flashing Plate</p> <p>The Composite EPDM Flashing Plate is fully watertight and is designed to meet strict installation procedures for weathering into a flat rubber-cover roof.</p> 
<p>ABS Flashing Plate</p> <p>The ABS flashing plate is manufactured from 3.5 mm thick ABS, capped with PMA for a long lasting, durable finish.</p> <p>It is suitable for the majority of slate roofs.</p> 	<p>EcoShield</p> <p>When combined with the double glazed Micro Prism diffusers, the EcoShield effectively makes the SUNPIPE system a quadruple glazed system ensuring an extremely low U-value and sound transmission through the system.</p> 	<p>Galvanised Flashing Plate and ABS Collar</p> <p>Manufactured from 0.8 mm galvanised mild steel which is corrosion resistant and suitable for felt, membrane and asphalt roof finishes. Supplied with an ABS collar for dome to fit mounting.</p> 
<p>Squared Rooflight Frame</p> <p>690 mm x 780 mm rooflight with a double glazed cover measuring 475 mm x 570 mm which finishes virtually flush with the roof surface. Supplied with code 4 lead skirt to enable suitable weathering. A square to circular transition piece completes the arrangement.</p> 	<p>ABS Flashing Plate with Weathering Skirt and Foam</p> <p>Manufactured from 3.5 mm thick ABS capped with PMA for a long lasting, durable finish. It is suitable for the majority of plain tile roofs. Supplied with code 4 lead flashing for suitable weathering.</p> 	

Below Roof Components

<p>The Pipe SUPER-SILVER finish aluminium tube</p>		
 <p>610 mm Extension Pipe</p> <p>The 610 mm extension pipe is manufactured from a silverised PVD coated mirror finished aluminium with a total reflection of 98%.</p>	 <p>610 mm Plain End Pipe</p> <p>The 610 mm plain end pipe is manufactured from a silverised PVD coated mirror finished aluminium.</p>	 <p>Slip Length</p> <p>The 250 mm ceiling extension is manufactured from a silverised PVD coated mirror finished aluminium.</p>
<p>Elbows</p>		<p>Ceiling Diffusers</p>
 <p>45° Adjustable Elbow</p> <p>The 45° adjustable elbow is manufactured from a silverised PVD coated mirror finished aluminium.</p>	 <p>30° Adjustable Elbow</p> <p>The 30° adjustable elbow is manufactured from a silverised PVD coated mirror finished aluminium.</p>	 <p>Choose from our range of ceiling diffusers the style that best suits your project.</p>

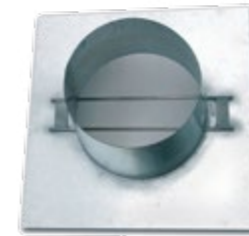
Diffuser Options



Additional Components (Optional)

Security Bars

Provides extra security by means of integrating stainless steel security bars which do not impact the light output of the system.



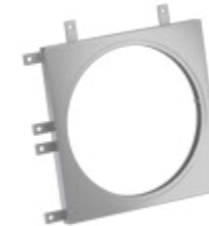
Sound-guard

Sound-guard ceiling diffusers can be used in place of the standard polycarbonate diffusers to provide sound attenuation of up to 37dBa.



Fire Collar

Intumescent 'Fire Choke' Fire collars can be integrated within the system to prevent the spread of smoke and fire through the roof to give up to 2 hours protection.



Motorised Shut Off

Features a butterfly light shut-off damper controlled by a 230V motorised actuator for use in areas such as Lecture Theatres, Conference Halls etc.




Fire-guard


Fireguard ceiling diffusers can be used in place of the standard polycarbonate diffusers to provide up to 1 hour fire resistance. (Larger ceiling opening required).




Performance

Diameter (mm)	Maximum Light Output			Area Lit (To a normal daylight level)
	Full Summer Sun 75 klux	Overcast Summer 50 klux	Overcast Winter 25 klux	
	Lux Value	Lux Value	Lux Value	
230	337	225	112	7.5 sq.m (approx 80 sq.ft)
300	607	404	202	14 sq.m (approx 150 sq.ft)
450	1452	968	484	22 sq.m (approx 230 sq.ft)
530	2052	1386	684	40 sq.m (approx 430 sq.ft)
750	4238	2825	1413	50 sq.m (approx 530 sq.ft)
1000	7675	5117	2558	60 sq.m (approx 650 sq.ft)

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