

# Monodraught Sunpipe

The ideal energy saving solution for prisons, police stations and other secure establishments

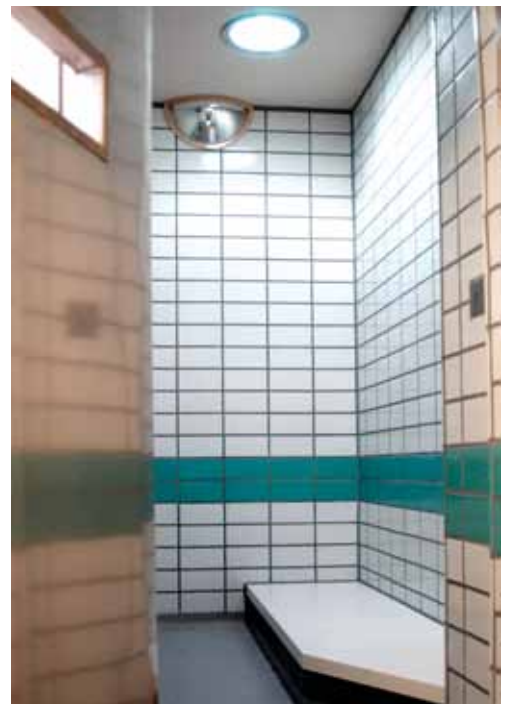
SunPipe offers the opportunity to achieve a high level of security by providing small diameter openings through the roof structure which can be heavily protected by additional stainless steel security bars. This is accomplished without detracting from the remarkable ability of the SunPipe to reflect and intensify sunlight and natural daylight.

## Advantages

- Virtually unbreakable vandal-proof security domes.
- Top dome is self-cleaning due to its shape and eliminates condensation problems.
- No maintenance, inside or out.
- Natural light provides soothing and calming effect.
- Virtually no solar gain in summer or heat loss in winter.
- Monodraught provide a complete installation service with all necessary attendances.
- Energy saving helps meet Government requirements.

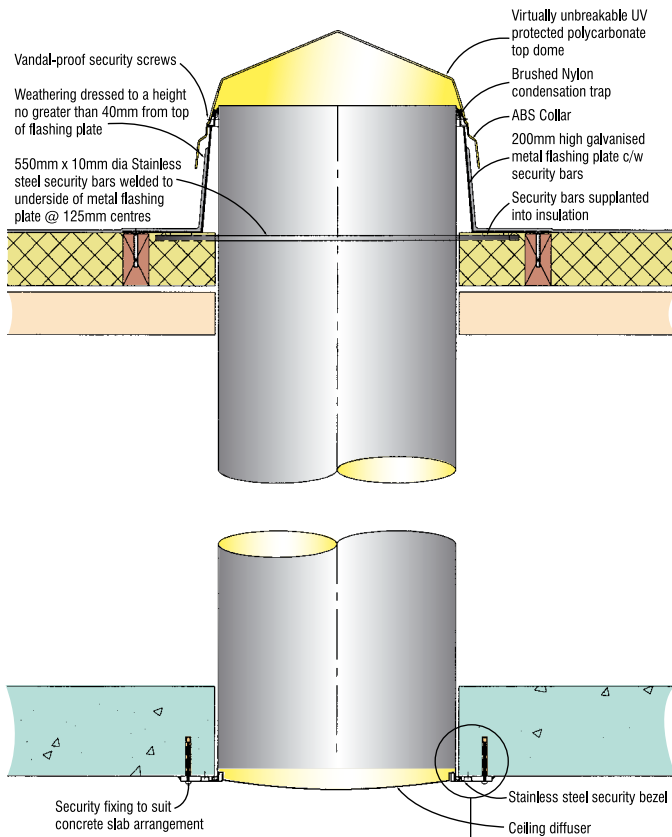
### Up to 75% Energy Saving

Where SunPipes are used, at least 20% energy saving can be achieved, since SunPipes can be used to provide background ambient lighting throughout daylight hours. In some areas, such as storerooms, offices and passageways, SunPipes can eliminate the need for electric lighting during daytime use, thereby saving up to 75% in energy.



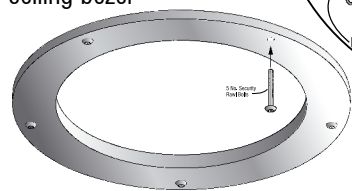
Naturally Secure

## SunPipe flashing detail to flat roof showing stainless steel security bars welded to upstand

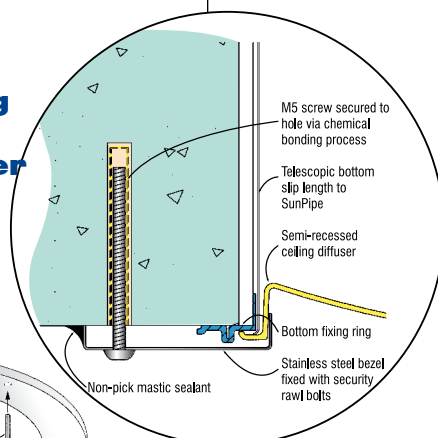
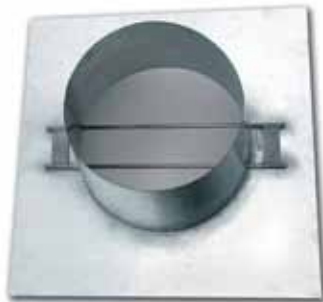


### Detail of security fixing of SunPipe ceiling diffuser

Stainless steel ceiling bezel



Galvanised flashing plate with security bars for a concrete roof with asphalt covering



## Benefits

### Diamond Dome Application

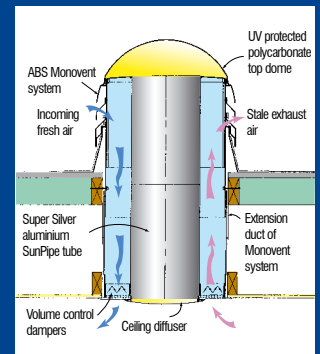
Monodraught SunPipes are now available with high impact polycarbonate Diamond shaped domes, which are virtually unbreakable.

### Better Working Conditions

The ability to project natural daylight to interior parts of any security building has particular long term health benefits, both to the staff and inmates. Working under natural daylight reduces stress and sickness and produces a proven soothing and calming effect.

### Natural Ventilation Systems

Monodraught also produces a wide range of natural ventilation systems, including the Monovent, which provides SunPipes with trickle ventilation. Windcatchers and SunCatchers are also available for high capacity natural ventilation requirements, all with manual or automatic controls.



### Automatic Lighting

To further enhance energy savings, the use of automatic switching, based on minimum Lux levels, is highly recommended. This can ensure that SunPipes are used for lighting throughout the daytime and electric lighting is used for night time only, or to be brought into use during daytime only when natural light falls to below a pre-set level.



Lewisham Police Station, London, where 50 No. 330mm diameter SunPipes were installed to the cells of this high security building. The SunPipe systems were fitted with vandal resistant top domes and security bars. Stainless steel ceiling trims were fitted with security screws.

For further information on SunPipes and other Monodraught products, please contact:



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