



Fall Arrest with Latchways

 **LATCHWAYS**
FALL ARREST SYSTEMS

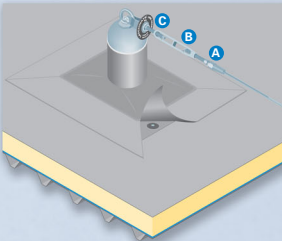
Sarnafil

The Constant Force Advantage

The application of the Constant Force principle to fall arrest has created a revolution in system design. Figure (1) summarises this by showing the increased load absorption capacity of the Sarnafil Constant Force post in comparison to a traditional rigid anchor post. Should a fall occur, the load generated is controlled by the system through the energy absorption contained within the posts. This limits the load imposed onto the roof to a maximum of 10kN.

The Sarnafil Constant Force post

Systems are made up of two end anchor posts with intermediate and corner posts positioned where required. The Sarnafil Constant Force posts are top fixed through the membrane and insulation to the crown of the steel deck using four toggle bolts. The cable is installed and connected to the end anchor posts via a simple swageless terminal **A** that can be tightened using standard



Above: Cutaway section of roof showing sealed base cover.

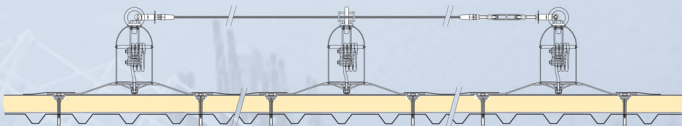


Diagram above: Cross section of roof system showing post configuration.

Significantly, the system is attached to the steel deck, rather than the building structure, offering freedom of design whilst ensuring quick and simple installation. Additionally the thermal bridging associated with the traditional through fixed posts is significantly reduced in accordance with the April 2002 amendments to the Building Regulations (Part L/J).

spanners. The correct cable tension is achieved by hand tightening the turnbuckle **B** until the tension disc **C** spins freely. Workers are then permanently attached to the cable via a Transfastener™, an energy absorbing lanyard and full body harness.

Deck Profiles

The post fixing positions have been designed to accommodate the most popular steel deck profiles with a minimum gauge of 0.7mm. Refer to the Latchways Specification Guide for further details.

Sarnafil Constant Force System

- Fully tested and CE marked.
- Attached to the steel decking rather than the structure.
- Minimises cold bridging—maintaining the integrity of the roof envelope.
- Aesthetically pleasing design.
- Installed by Latchways trained Sarnafil Registered Contractors.
- Tested, certified and tagged by Latchways prior to use.
- Annual inspection available from Latchways.
- Covered by the Sarnafil guarantee providing single point responsibility.

Left: Cutaway section of CF Post showing load absorbing coil.



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Sarnafil

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