



Clad Rail Fixed Roof Edge Protection For Profile Clad Roofs

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great service, great quality

INTRODUCTION

Lockinex Fixed Roof Guardrail system utilises Lockinex Key Clamps, Tubing & specially designed base feet & posts.

This permanent system can be fixed to virtually any type of roof that has a sheeted corrugated profile.

APPLICATION

Lockinex Fixed Roof Guardrail provides a safe working environment for personnel who may frequent roof areas, to maintain equipment such as air conditioning units, telecoms, water tanks, communications services or performing repairs or general maintenance to the roof itself.

The system can be installed to the complete roof perimeter or installed to provide direct access to a particular area on a roof.

Once fixed into position, the system will provide many years of virtually maintenance free service life.

MAINTENANCE

Once installed this product requires very little maintenance.

The systems integrity relies on the spreader plates, installed as the layout details. Any alterations or removal of spreader plates will greatly affect the system.

Structural fixings should not require any further attention. Depending on the local environment it may be prudent to have these checked at an agreed interval to ensure there has been no tampering or removal.

Contact the company for further assistance if required.

COMPOSITION, MANUFACTURE

Designed & tested to comply with BS EN 13374 Class A and/or BS EN 14122-3 (toeboard required for compliance with BS EN 14122-3).

Lockinex Key Clamps

Manufactured to BS EN 1563:2011
BS EN 1562:2012
Galvanised to BS EN 1461:2009

Tubing

Manufactured to BS EN 10346

Steel Spreader Plates

Manufactured from S195T Steel
Galvanised to BS EN 1461:2009
Butyl Strip applied to underside contact points.

IDENTIFICATION & TRACEABILITY

The system is clearly marked with the "Lockinex" brand name. This will provide ease of contact should the system require further components for adaptation & alterations etc.

CERTIFICATION

Safety Compliance Certificates (SCC's) can be issued on request. In order for an SCC to be issued by Lockinex UK Ltd a site survey must be carried out by a Lockinex staff member of the installed system in order for us to validate the correct installation. We may also validate the installation remotely if suitable images and information are provided on completion of the installation.

SYSTEM OVERVIEW



**Above
Clad Rail System**
Galvanised steel.



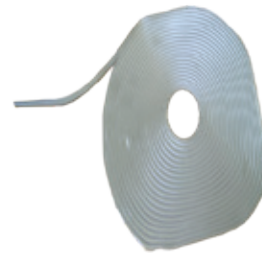
**Above
Clad Rail System**
Galvanised steel. Roof apex connection
utilises Lockinex A05-8 key clamp.



**Above
Clad Rail System**
View of installed system.

BUTYL STRIP

Fixed under FSR-500 spreader plates & FSR-600 bridging plates to provide a water tight seal at fixing penetration points.



INSTALLATION

The simplicity of the system and easy to follow instructions allow the system to be installed by un-skilled personnel. Easy to handle components allows them to be passed up through even the smallest of roof work hatches.

Lockinex UK Ltd have their own contracts division which can survey your requirements and provide a cost to carry out the complete works if needed.

Included in this will be the full management of any crange and installation (If required).

A complete nationwide service is available.

DESIGN CONSIDERATIONS

When standard kit components are fully assembled, the guardrail will comply to current UK regulations & exceeds many European regulations (EU Regulations are generally to a lower specification than those in the UK).

Should the contractor/third party installer adapt/alter the system in any way, consideration should be given to the proposed alterations.

Components

FSR-401

Short back leg post.
Height of post can be adjusted.



FSR-405

Long back leg post.
Height of post can be adjusted.



FSR-501

Short back leg post.
Complete with bracket to accept toeboard/kickplate. Height of post can be adjusted.



FSR-505

Long back leg post.
Complete with bracket to accept toeboard/kickplate. Height of post can be adjusted.



FSR-507

Kickplate with
4 x bolts and washers.



FSR-409

2.5 mtr length of tube to
construct guardrails.



FSR-413

D end rail termination.



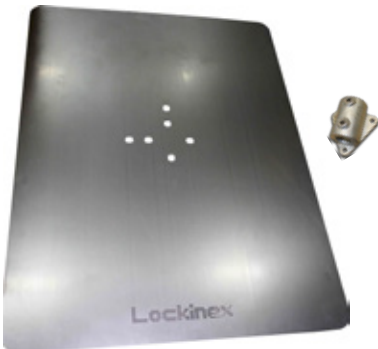
FSR-411

90 Degree Swept Bend.



FSR-500

Spreader plate comes with the post receiving clamp (A15-8) which is connected using 3 x stainless steel bolts, nuts & washers (supplied).



FSR-600 bridging plate

Used to fix the base of a post to the corrugated profile (nut, bolt and washer supplied to allow fixing to post base).



FSR-700 fixings (packs of 100)

Anti-corrosion protected stitching screws for fixing FSR-500 & FSR 600 to clad roof. Each fixing achieves 1.5kN pull out loads when used with 0.7mm thick cladding & 3.0kN pull out loads when used with 1.4mm thick cladding. Minimum of 12 fixings should be used with FSR-500. Minimum of 2 fixings should be used with FSR-600.



Layout Details

FSR-Roof Guardrail

Corners.

It is recommended that a maximum projection of tube beyond a post should be no more than 500mm. The rail can then continue on 2.5 mtr to the next post. Use the FSR-411 swept bend or A06-8 key clamp for 90 degree corner connections.

Apex connections.

Lockinex A05-8 can be used to join the handrail at the roof apex.

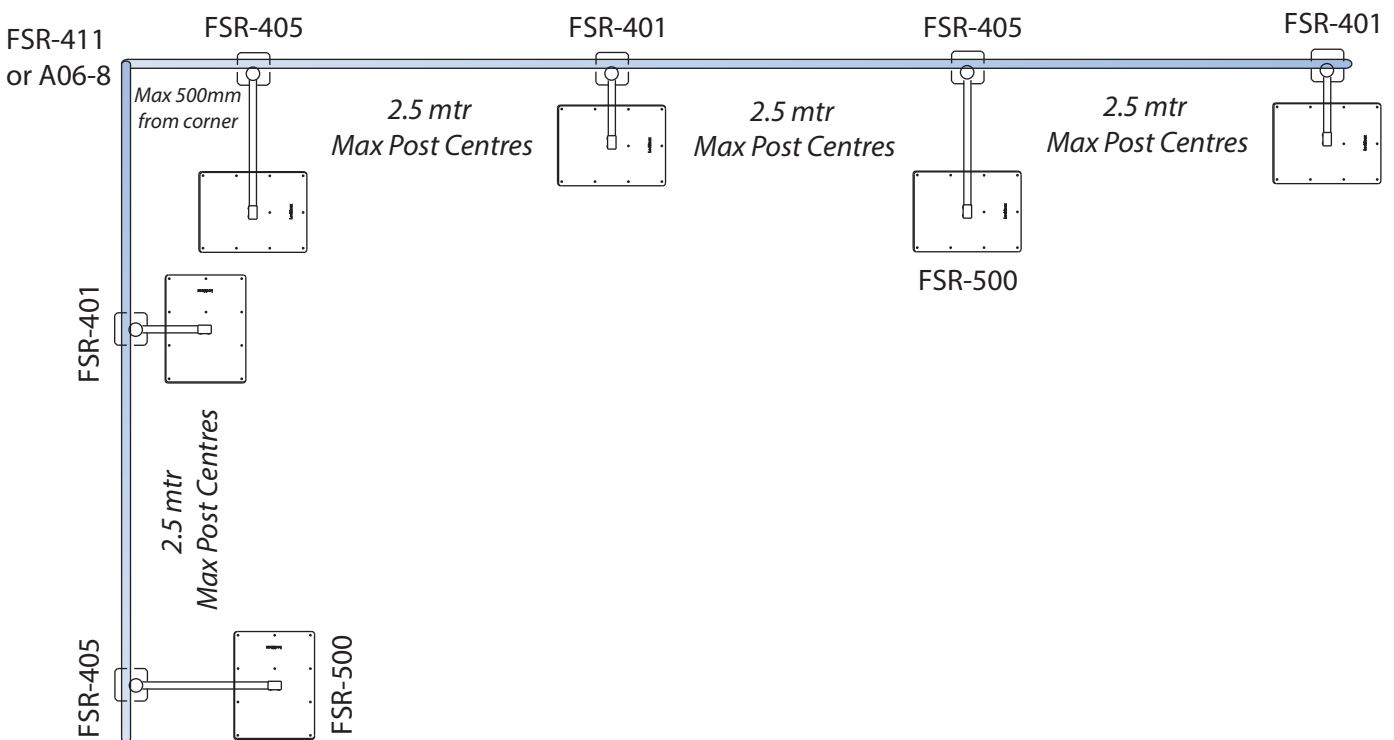
Back leg extensions.

In some circumstances the Lockinex spreader plate may sit on an undesirable area such as a GRP roof light which cannot be fixed onto. The Lockinex A08-8 with an additional length of tube can be utilised to extend the back leg so that the spreader plate may be fixed in a suitable area.

Fixing spreader and bridging plates to roof.

FSR-500 Spreader Plates and the FSR-600 Bridging Plates are utilised for fixing the guardrail system to cladded roofs. These plates can be easily drilled on site and affixed using tec screws with butyl strip. However, if the roof profile dimensions are supplied to Lockinex UK Ltd, we are able to supply these items with slotted holes to your specific requirements (subject to quantity).

Example layout



Clamps from the Lockinex key clamp range.

A selection of clamps are shown below, which can be utilised to work with our Clad Rail system.

(For the full range of clamps visit the www.lockinex.com web site).



A02-8

Short T.
Used for step ups
in rails.



A06-8

90 degree elbow joint.
Used for forming 'D' ends to
terminate a run of handrail
& turning rails at corners.



A05-8

Multi angle swivel joint.
Alters directions of rails
85-180 degree.



A08-8

Straight rail connector.
Connects rails end to end.



A10-8

Rail end Termination.
Ends of rails can be
fixed to a structure.



A12-8

Structural top fixing
base plate.



A14-8

Structural side mounted
base plate.
Fixings holes vertical.



A15-8

Structural side mounted
base plate.



A16-8

Structural side mounted
base plate.
Fixing holes horizontal.