



Contents

Contonts	
Cavity Fire Barriers	
Fixings	
Installation Guide for NVELOPE® CFB 6 & 12	
Installation Guide for NVELOPE® CFB EXTRA	
Installation Guide for NVELOPE® CFB 12/50	1
Installation Guide for NVELOPE® CFB UV	1.
Additional Support	1

Component Guide

The SFS NVELOPE® CFB system has been created for Designers and Specialist Cladding Contractors who demand a clear and straightforward approach to aid the selection and supply of subframe cavity fire barriers.

Developed by the UK's leading rainscreen subframe provider, the SFS NVELOPE® CFB fire safety solution offers an appropriate barrier to meet most subframe project specific fire safety requirements.

Cavity Fire Barriers

NVELOPE® CFB EXTRA



NVELOPE® CFB 12

NVELOPE® CFB 6An open state cavity fire barrier for ventilated cavities up to 450mm. Utilises an high performance intumescent seal fixed to a high density mineral wool backer. It is mechanically fixed and usually orientated horizontally.

An advanced open state cavity fire barrier for ventilated cavities up to 450mm. Utilises an high performance intumescent seal fixed to a high density mineral wool backer which offer extended performance over and above CFB 6. It is mechanically fixed and usually orientated horizontally.



NVELOPE® CFB 12/50

The superior open state cavity fire barrier for ventilated cavities up to 450mm which provides additional protection for larger air gaps up to 44mm. Utilises an high performance intumescent seal fixed to a high density mineral wool backer which offers extended performance over and above CFB 6. It is mechanically fixed and usually orientated horizontally.

The NVELOPE® CFB 12/50 is a high expansion intumescent seal offering industry leading performance as a ventilated cavity fire barrier. It is a rigid, high expansion intumescent strip encased in aluminum foil, and can be mechanically fixed both horizontally and vertically within ventilated cavities behind rain-screen or cladding systems to act as a cavity fire barrier.

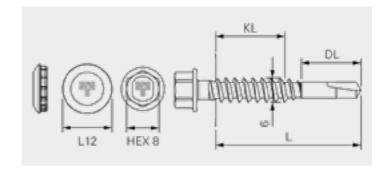
Component Guide

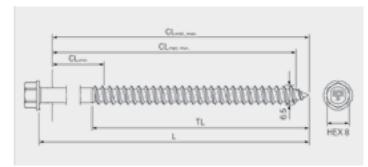


NVELOPE® CFB UV

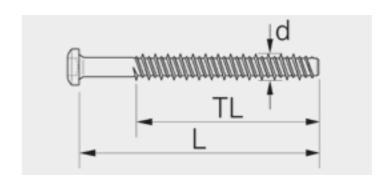
This is a barrier for non ventilated applications and is ideally suited to prevent fire penetration between adjacent vertical compartments within a rainscreen. Manufactured from high density mineral wool to suit a wide range of cavity depths. They are held in place by a combination of compression and multi purpose brackets.

Fixings - For Barrier Brackets

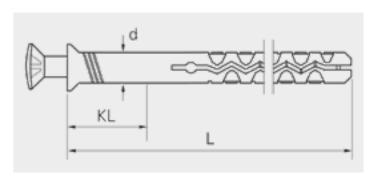




SX3/9-6x29-A4



TDA-S-6,5x20

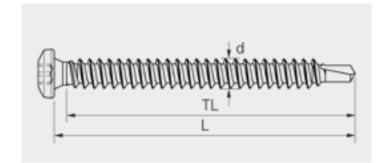


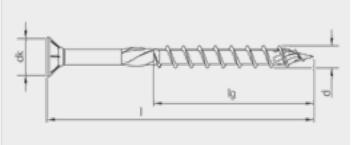
TI-S-Z10-6,3x45

MNA-S-6,0x35

Component Guide

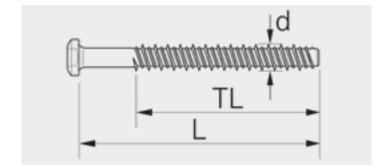
Fixings - For Direct Fix



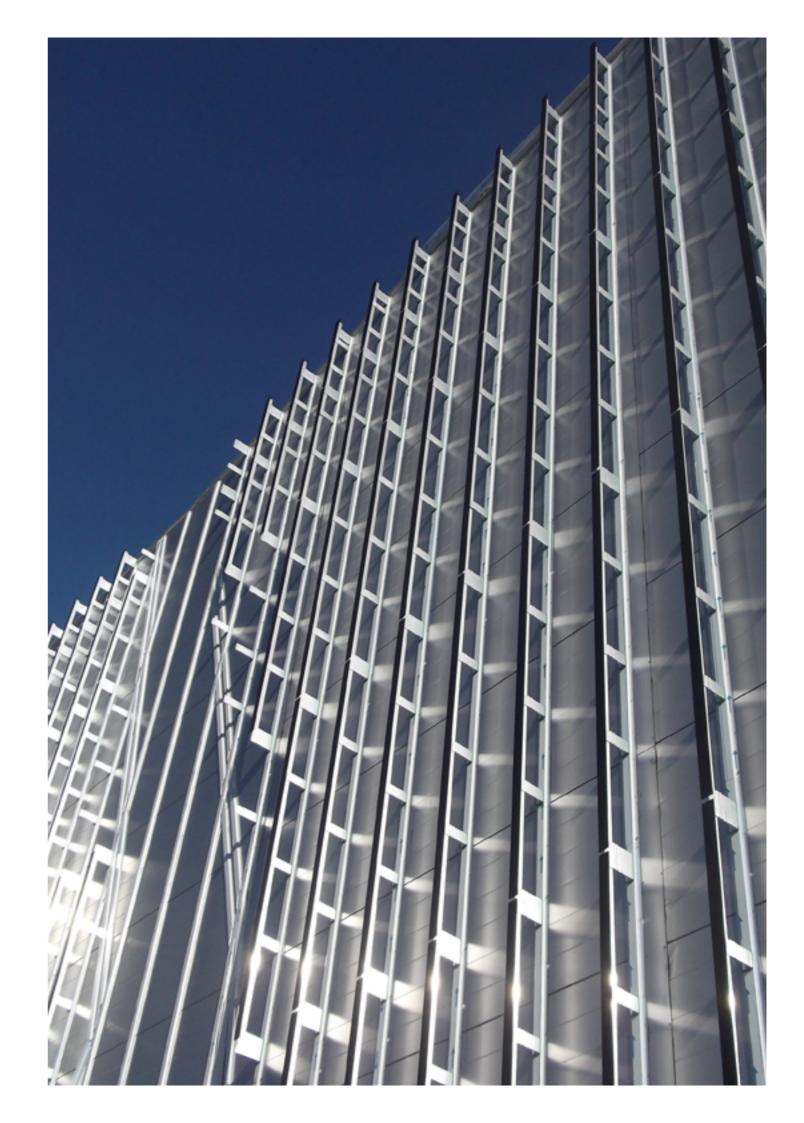


BS-S-4,8x60

HTP-S-CS-PT-6,0x60



TI-S-Z10-6,3x45



Installation instructions for NV CFB 6 & 12

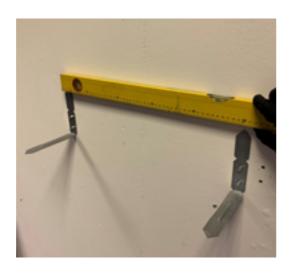
1. Fix the NVELOPE® CFB 6 or 12 with the pre-supplied steel fixing brackets, using the appropriate SFS fixings for the substrate material.



2. For cavities up to 100mm, directly fix with SFS fasteners at max. 250mm centres.



3. Product must be fixed at max. 500mm centres up to 240mm cavities and max. 350mm centres for 241-300mm cavities.



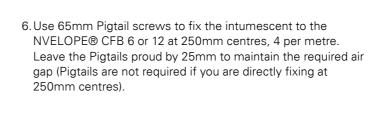
Installation Guide

Installation instructions for NV CFB 6 & 12

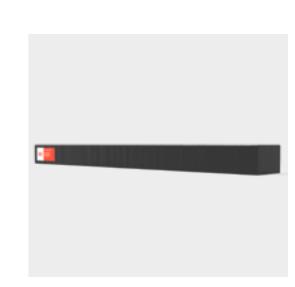
4. Each section of NVELOPE® CFB 6 or 12 must be mechanically fixed. The brackets should be fitted at the centre point of the product and the bracket should not protrude through the intumescent element. Brackets can be cut down to size if required.

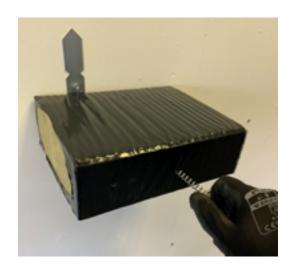


5. Ensure that the label side is facing out so that the intumescent element faces out into the cavity in case of a fire.



7. Adjacent lengths must be tightly butted together. The maximum remaining air gap to the back of the cladding panel is 25mm.





Ensure Fire Barrier is free to expand during fire situation.

Installation instructions for NV CFB EXTRA

1. In cavities more than 100mm fix the NVELOPE® CFB EXTRA with the pre-supplied steel fixing brackets using the appropriate SFS fixings for the substrate material.



2. The NVELOPE® CFB EXTRA must be fixed at max. 500mm centres and the brackets should impale the barrier at midbarrier depth. Cut the bracket down to size if required.



3. Each section of the NVELOPE® CFB EXTRA greater than 250mm must be mechanically fixed with 2 brackets (if the barrier is 250mm or less then only 1 bracket is required). The barrier can be cut down to length if required.



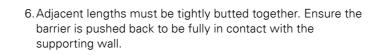
Installation Guide

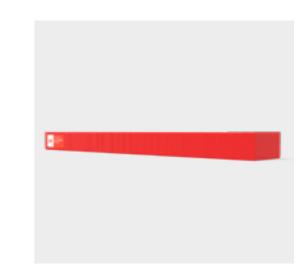
Installation instructions for NV CFB EXTRA

4. The bracket should not protrude through the rigid intumescent element but should penetrate the barrier to approximately ¾ of the width of the barrier.

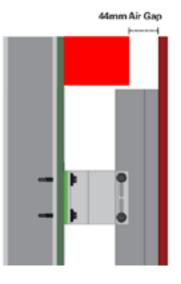


5. Ensure the label side is facing out so that the intumescent element faces into the cavity in case of fire.





7. Maximum remaining air gap to the back of the external face is 44mm



Ensure Fire Barrier is free to expand during fire situation.

Installation instructions for NV CFB 12/50

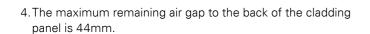
1. Fix the NVELOPE® CFB 12/50 with the appropriate SFS fixings for the substrate material. The maximum fixing head diameter is 11.5mm (trumpet/countersunk type head only).

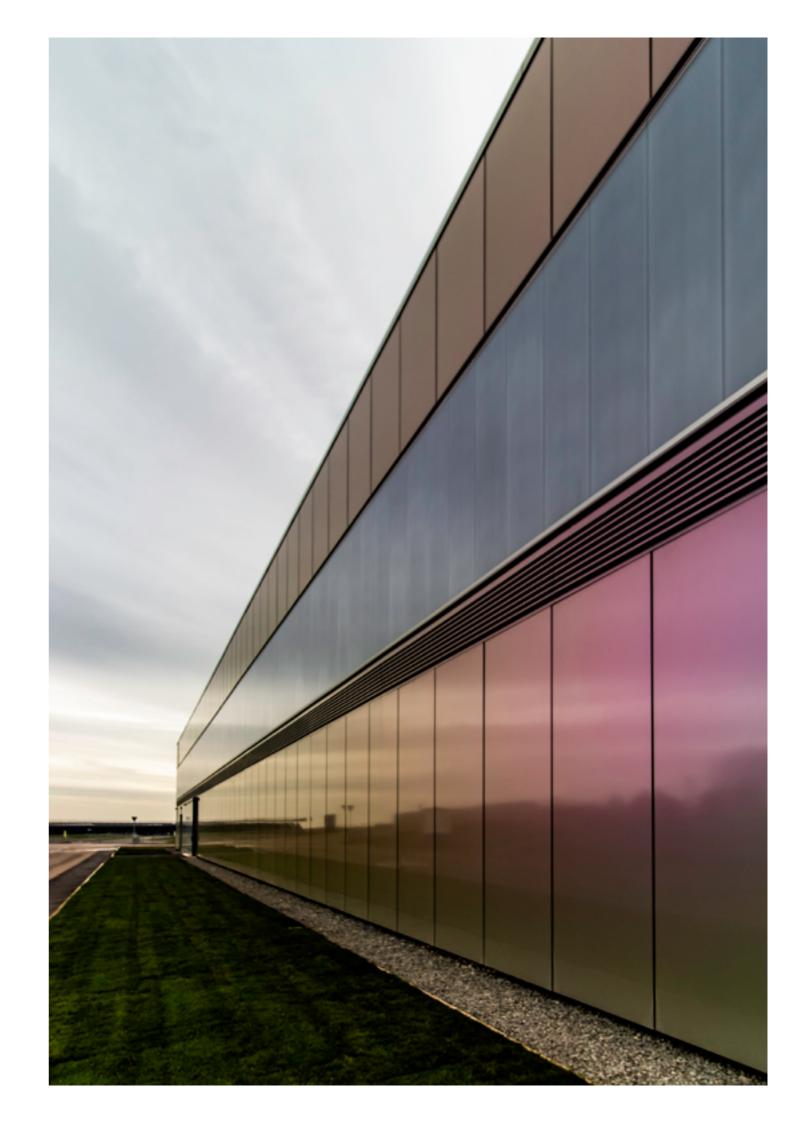


2. The NVELOPE® CFB 12/50 must be fixed at a max. 250mm centres. If the barrier is cut to length, ensure there is a minimum of two fixings per cut length.



3. Fixings must be along the centre line of the fire barrier. Ensure the label side is facing out into the cavity. Adjacent lengths must be tightly butted.





Installation instructions for NV CFB UV

1. Fix the NVELOPE® CFB UV with the pre-supplied steel fixing brackets, using the appropriate SFS fixings for the substrate material.



2. The steel fixing bracket will require cutting to size if the barrier is less than 350 mm wide. To secure the bracket use the appropriate SFS fixings for the substrate material and ensure that the screw head sits as flush as possible with the substrate so that the NV CFB UV will sit tight against the substrate leaving no gaps.



3. Each section of the NVELOPE® CFB UV greater than 250mm from the end of the cavity barrier, with a maximum spacing between brackets of 500 mm, must be mechanically fixed with 2 brackets.



Installation Guide

Installation instructions for NV CFB UV

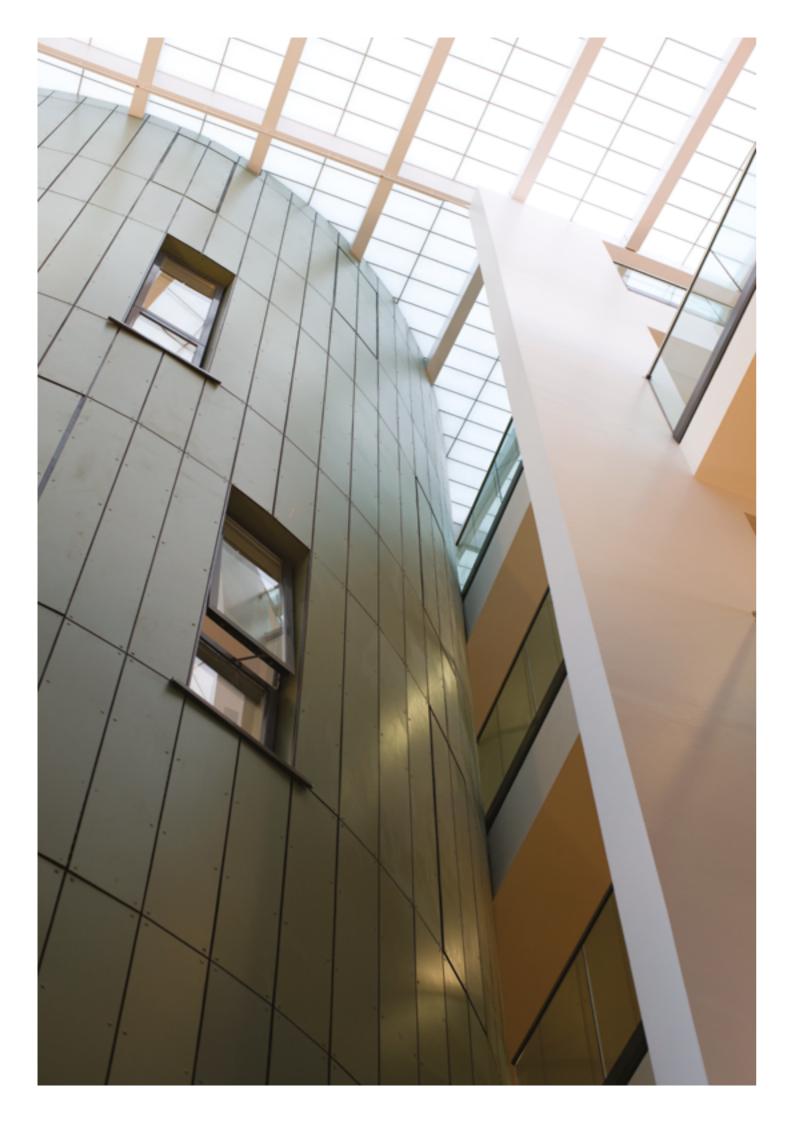
4. Push the cavity barrier onto the bracket spike, the brackets should impale the NV CFB UV to approximately mid barrier depth and must not protrude through the face of the cavity barrier, remembering to allow for the final compression against the outer substrate also.



5. The cavity barrier should be pushed fully onto the bracket spike and sit flush with the substrate, at the rear of the cavity barrier, ensuring that there are no gaps behind the cavity barrier.



Ensure Fire Barrier is free to expand during fire situation.



Additional Support

Interested in our Cavity Fire Barriers?

Complete our short survey with your requirements and one of our specialist advisors will be in touch...



Take Me To The Survey

Datasheets

Cavity Fire Barrier	Description
NV CFB 6	PDF 0.97MB →
NV CFB 12	PDF 1MB →
NV CFB EXTRA	PDF 1.05MB →
NV CFB 12/50	PDF 0.9MB →
NV CFB UV	PDF 3.02MB →

Speak to Technical Support

Email: info-nvelope@sfs.com → Tel: +44 (0)330 0555 888

SFS ConnectSuite® Tools

Designed to support you through the lifecycle of designing a project.

View Project Builder →

