



 **FIXFAST**

Living Roof RETENTION SYSTEM OVERVIEW

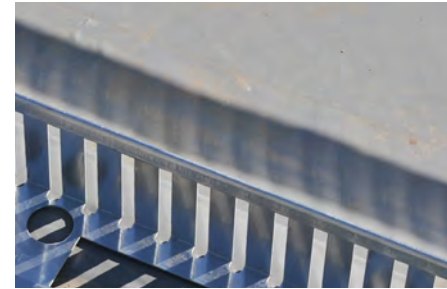
Living Roof Engineering from Fixfast

The Living Roof Retention System

Setting standards for the engineering of living roofs

It is clear to see why living roofs are growing in popularity. By reducing heating costs while also creating an urban space for wildlife to thrive, living roofs hit the economy + ecology sweet spot.

But the effects of weather can impact how these roofs look and perform over time. To protect the growth of the living roof sector, we must protect the physical properties of the roofs themselves. Living roofs need proper engineering. The Fixfast Living Roof Retention System resolves the issues that limit a living roof's long-term performance.



Prevention of soil erosion and slippage



Lower risk of waterproof membrane breaches



Effective drainage



Enhanced fire safety



Improved access for easier maintenance



Design flexibility

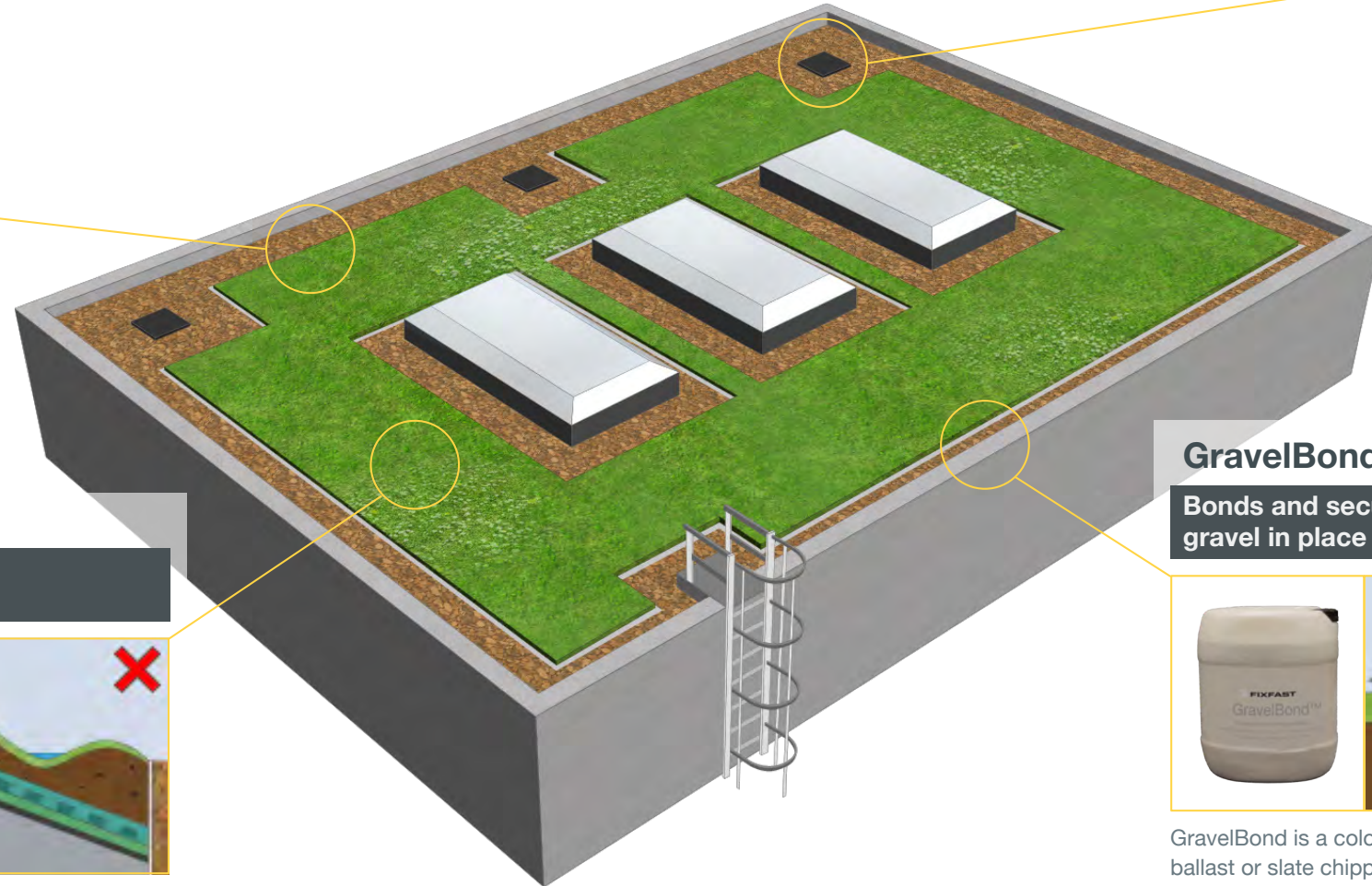
EdgeGuard™

Preserves boundaries and fire breaks



EdgeGuard is a completely flexible aluminium retention angle solution. It can be used to preserve the integrity of fire breaks, or separate different roof garden materials. Flexible options and unique connectors mean EdgeGuard is suited to almost any type of living roof application.

The Fixfast Living Roof Retention System



JacBox™

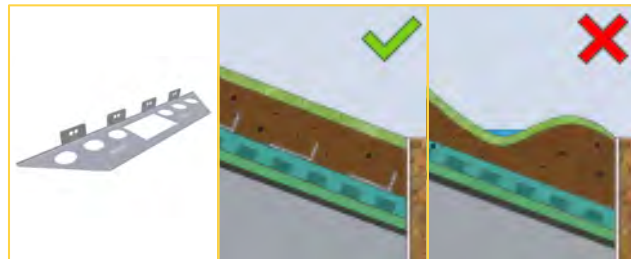
Enhances and enables drainage maintenance



JacBox is a modular inspection chamber solution for drainage and irrigation points. It enables secure, easy maintenance inspections, and prevents drains from becoming blocked. It is made from powder-coated aluminium for corrosion resistance and colour flexibility.

SlumpGuard™

Prevents soil slippage on pitched roofs



SlumpGuard is an anti-slip grip for retaining living roof material when installed on barrel vaulted or pitched roofs. Retaining spikes or squares grip the underside of the sedum blanket, preventing unsightly slippage which can cause drainage issues and compromise fire safety.

GravelBond

Bonds and secures gravel in place



GravelBond is a colourless adhesive for bonding river wash ballast or slate chippings together. It keeps gravel secure and in place during strong winds or roof access work, preventing damage or injuries caused by falling ballast.

EdgeGuard™

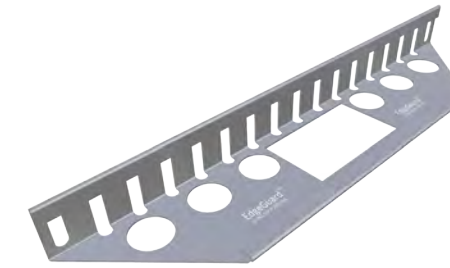
The EdgeGuard system is designed for use in a variety of green or ballasted roof applications. EdgeGuard can be used either as an edge restraint, or where a solution for retaining or separating the roof garden materials is required.

Characteristics

- Supplied in 2.4m lengths – quick installation
- Lightweight and robust – perfect for site use
- Modern aluminium look – complements your project
- Flexible sections available – to complement any shape of roof
- Traditional style available – works well with oak timbers
- Unique connection system – very versatile
- Slotted sections – allows for ample drainage
- Unique base design – large cut-out for bonding to membrane if required
- Bespoke colour service – can be powder coated to complement your application
- Available in a range of heights - from 50mm to 300mm

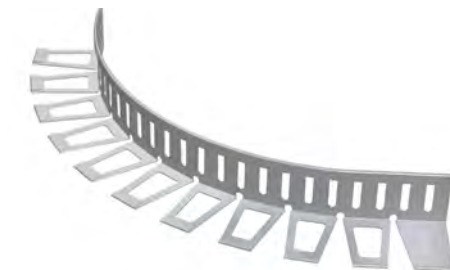


FIXFAST
Products that work
and a customer
service team that
puts you first.



EdgeGuard Aluminium

Durable straight edge restraint



EdgeGuard Flexi

Flexible edge restraint for creating curves

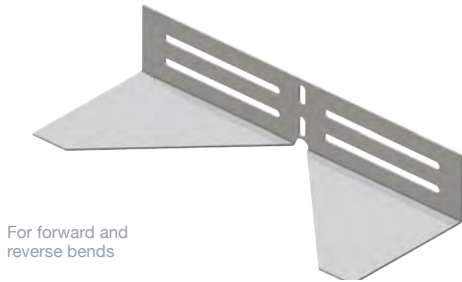


EdgeGuard Traditional

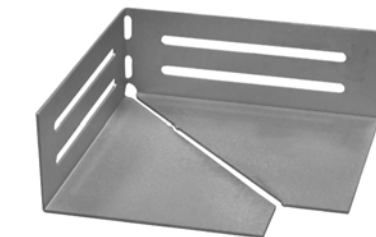
Edge restraint bracket for traditional pitched roof applications

EdgeGuard Angle Connectors

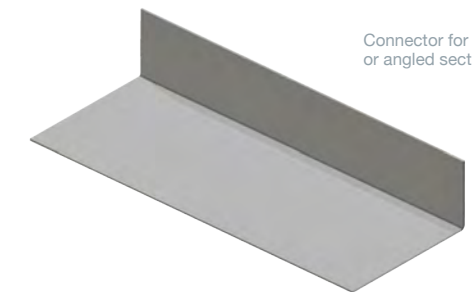
Specially designed for joining together lengths of the EdgeGuard trim system.



For forward and reverse bends



The connector can be bent to suit the required angle



Connector for straight or angled sections

JacBox™

JacBox is a modular inspection chamber solution for drainage and irrigation points. It enables secure, easy maintenance inspections, and has been engineered to prevent drains from becoming blocked.

JacBox is made from powder-coated aluminium for corrosion resistance and colour flexibility. Standard bases are available in either 50mm or 300mm high full slot design or a parapet base which is 100mm high. Interlocking mid-sections in four different sizes allow for multiple build-up heights.

Each JacBox is supplied with a complete pack of 24 rivets for easy installation on site.

Characteristics

- Standard and chamfered bases are available – to fit against any roof edge
- Ample drainage - full-slot bases allow free flow for rainwater
- Flexibility – any depth of roofing build-up
- Simple assembly – quick to install
- Bespoke colour service – suit the look you need
- Safe access – prevent roof drain being blocked
- Secure - lockable lid for security

1 JacBox Cover
Lockable cover

2 JacBox Section
Sections available in 50mm, 75mm, 100mm and 200mm height

3 JacBox Base
Standard bases available in 50mm and 300mm height, and parapet base available in 100mm height

JacBox Inspection Chamber

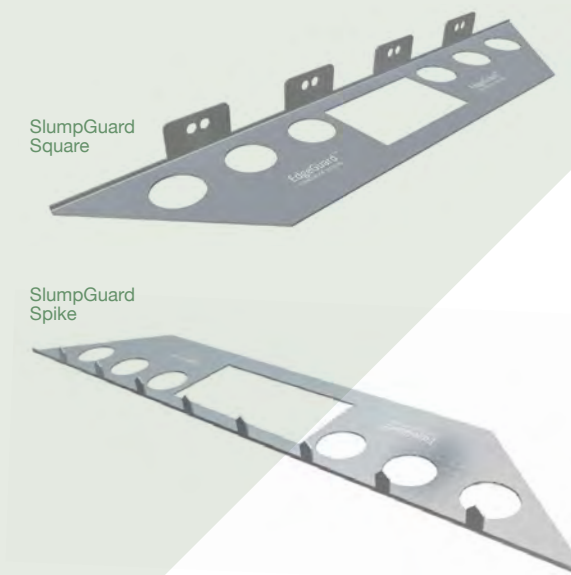


SlumpGuard™

SlumpGuard is an anti-slip grip for retaining living roof material when installed on barrel vaulted or pitched roofs. Retaining spikes or squares grip the underside of the sedum blanket, preventing unsightly slippage which can cause drainage issues and compromise fire safety.

Characteristics

- Manufactured from high quality aluminium for corrosion resistance
- Supplied in 2.4 metre lengths for quick installation
- Lightweight & robust, can be easily cut to required length



GravelBond

GravelBond is a colourless adhesive for bonding river wash ballast or slate chippings together. It keeps gravel secure and in place during strong winds or roof access work, preventing damage or injuries caused by falling ballast.

Characteristics

- Supplied in 33kg canisters, which will cover approximately 33m² of 5cm deep gravel



Living roof retention system checklist

- Have you chosen component materials that do not rust?**
Galvanised steel rooftop products are not appropriate as their rustproofing is easily damaged. Use aluminium or stainless steel to prevent component deterioration.
- Are the materials lightweight yet durable?**
Roof load is a factor in any rooftop construction. To minimise the weight of essential components, use materials such as aluminium, which is sufficiently durable for rooftop use. Lightweight materials also ease the installation process.
- Are the materials non-combustible for maximum fire protection?**
Metal components are inflammable and offer the best balance of durability, design flexibility and weight. Plastics can be appropriate on a living roof if installed correctly.
- Do the system components have sufficient drainage holes?**
Drainage issues are a major cause of living roof failures. To ensure excess water has sufficient exit points, choose components with large drainage holes.
- Is the drainage protection conducive to maintenance?**
Drainage chambers are superior to other drain protectors as they offer the additional benefit of facilitating essential maintenance.

- Are your retention angles tall enough to maintain minimum substrate depth?**
A minimum substrate depth of 80mm is recommended best practice for fire safety. When choosing retention angles for your system, ensure their edge height exceeds your substrate depth.
- Will your components compromise the roof's waterproofing?**
Retention angles protect firebreaks from encroaching plant life. Use L-shaped retention angles, rather than solely vertical edges, as this will spread the load, protecting the waterproof membrane from potential breaches.
- Is your living roof protected from slippage?**
In barrel-vaulted and pitched roof applications, anti-slump products to hold the sedum blanket securely in place are required to prevent soil slippage, which can cause drainage issues and compromise fire safety.
- Are your fire breaks secure?**
In addition to retention angles to prevent encroachment, gravel fire breaks need to be protected from strong winds and heavy boots. Use large pebbles of between 20 – 40 mm, and apply a gravel adhesive to hold them in place.
- Have you provided safe access for maintenance?**
A successful living roof requires regular maintenance. A permanent collective safe access system provides the best protection for the widest range of workers who may access the roof to conduct this maintenance.

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