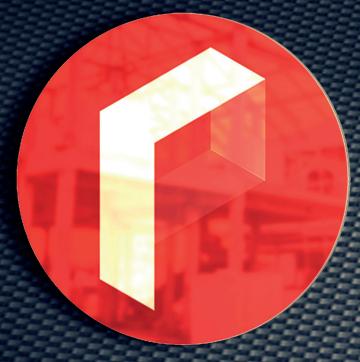


BUILDING ENVELOPE FASTENERS GUIDE

A specification guide on fasteners to use in various building envelope applications.







Specialised Fixings Systems





paradigme.co.uk

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About Paradigme:

Paradigme Ltd are specialist suppliers of certified structural and architectural fasteners & fixings for external construction projects. We have a wealth of experience and supply market leading companies who manufacture and install Architectural façades, rainscreen cladding and solar shading

Our experience and understanding of construction allow us to source fixings and components suitable for almost any external project. We can provide all the technical specifications and advice you need.

E: sales@paradigme.co.uk T: +44 (0) 161 470 2857



Applications: Façade

Our masonry screw range proves to be an ideal solution for attaching façade elements to masonry and concrete substrates.

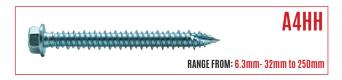
These fasteners are designed to penetrate, engage and securely fasten into various masonry blocks, bricks and even concrete slabs or soffits.

In addition to their mechanical benefits, this fastening solution provides exceptional corrosion resistance in external applications, with an A4 stainless-steel variation providing corrosion resistance even in coastal environments.

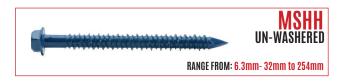


SELF TAPPING MASONRY SCREW RANGE:

STAINLESS STEEL:



CARBON STEEL:









When fastening steel framing elements and sections, our TEK screws are an ideal solution. Utilising their inherent self-drilling and self-tapping capability along with their high tensile strength, make them the preferred choice for these applications.

Evolution's TEK screw range is engineered to accommodate and encompass a wide-range of build-up thickness's and a diverse array of cold and hot-rolled mild steel substrates as well as a stainless-steel option for aluminium substrates (to mitigate against electrogalvanic corrosion acceleration).

Our offering extends not only to A4 fasteners for coastal applications but further to A5 fasteners suitable for the most extreme marine environments and swimming pools.

TEK® SCREW RANGE:

STAINLESS STEEL:











CARBON STEEL:













Specially designed for optimum performance, our fasteners provide a safe, secure and expedient fastening solution for façade systems comprising:

- a. composite insulated panel walls
 and roofs retained to primary or secondary steel
 framing, as well as
- b. retention of brick-tie channels through insulation battens and boards to secondary steel framing, timber framing or reinforced concrete (remember to specify our stainless-steel compression sleeves to stop compression of the insulation).

Our fasteners allow flexibility and adaptability to a wide range of insulation materials and thicknesses, ensuring a consistent fastening solution for all applications.

Make use of our technical expertise and get in-touch with our engineers by e-mailing technical@evofas.com to discuss the specific requirements of your project now!

COMPOSITE PANEL FASTENER RANGE:

STAINLESS STEEL:

FOR HEAVY STEEL

THICKNESS

DIA. 5.5mm

RANGE FROM: 5.5mm - 105mm to 150mm



10.1kN

10.0mm

12.3kN

12.8kN

CARBON STEEL:









Applications: Cladding.



A diverse range of sheeting and cladding systems are employed in industrial and commercial structures.

Evolution Fasteners can support in specifying the appropriate fasteners and specialized components, tailored to the design, to guarantee the safety and security of your building's envelope,

SUCH AS:

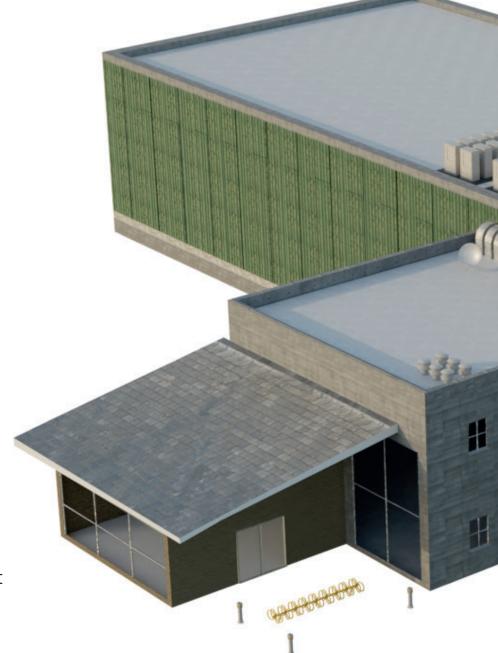
Fibrous Cement Screws (A2SSDH/TSBWHT6.3-XX-GP)

Halter Fastener Range for Standing Seam Systems (TSFHR/TSHF)

Membrane Covered Roof Panels

Composite Panel Range (BMTSBWHT/A4BMHT/TSBWHT)

Stitching Screw Range For Sheet Stitching (BMTSFHR/BMTSHF/A4SS TSFHR/TSHF)





For further assistance and help, don't hesitate to contact Evolution fasteners technical team on:

E: technical@evofas.com T: +44 (0)141 647 7100





Sheeting and Cladding Fasteners



Fixing sheeting and cladding to steel and aluminium

Bi-Metal TEK Range A2 and A4

(BMHH/BMBW/A4BM)

Carbon Steel Range for Light and Heavy Steel

(TSHW/TSBW)

A4 Self Tapping Screws

(A4ST)



Fixing sheet steel

A2 Bi-Metal Stitching

(BMTSFHR/BMTSHF/A4SS)

Carbon Steel Stitching/Halter Fixing Screws

(TSFHR/TSHF)









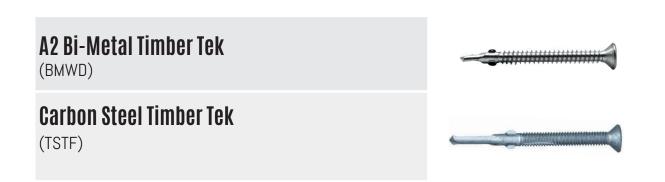
Fixing composite panels to steel and timber

A2 and A4 Bi-Metal Composite Panel Range (BMTSBWHT/A4BMHT) Carbon Steel Composite Panel Range (TSBWHT)

Fixing fibre cement sheeting

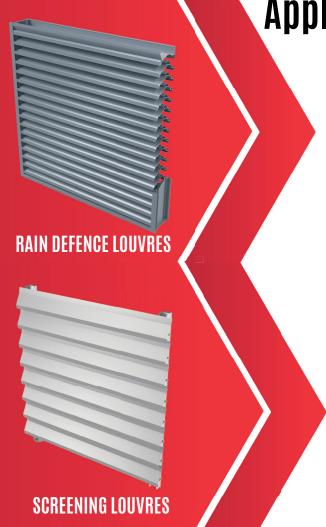


Fixing timber to steel



Applications: Louvres.





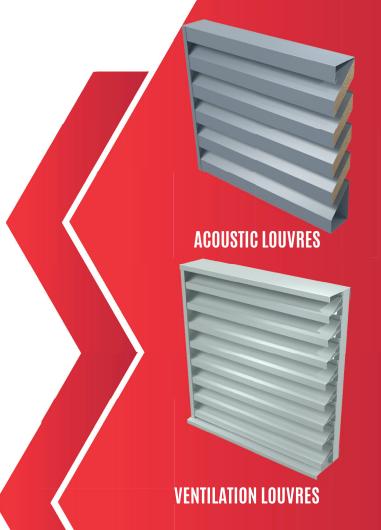
Whether the requirement is for rain defence louvres, screening louvres, ventilation louvres, or acoustic louvres, our extensive selection of fasteners ensures optimal performance and durability in securing these systems against the elements and environmental noise.



Understanding the unique demands of each louvre application—be it for airflow management, water penetration resistance, visual screening, or sound attenuation—Evolution Fasteners' technical team is readily available to offer expert guidance.

By simply reaching out to our technical support team, clients can receive free, personalized advice on selecting the ideal connect fastener for their specific louvre system and job requirements.

> E: technical@evofas.com T: +44 (0)141 647 7100





Technical assistance at Evolution Fasteners:

Our expertise extends to various stages of construction, whether it involves new developments in the planning phase or renovation projects that include new roofing or external cladding. We provide support through consulting, educational sessions, technical evaluations, or tailored on-site assessments. Our array of services in specification and technical support encompasses:

- Tailored specifications for individual projects
- Provision of CAD layouts and BIM models
- Educational seminars and product showcases
- Anchor pull-out assessments
- Calculations for wind resistance
- Testing for specific application requirements



About Evolution Fasteners:

The team at Evolution boasts a wealth of expertise across various sectors of the construction industry and is accessible from 8:30 am to 5:30 pm, Monday through Friday. They are on hand to offer information about products, pricing, or guidance on the appropriate uses for our fasteners.

Our entire product range is stocked at our UK Distribution Centre, ensuring next-day delivery across most of the UK and swift delivery to mainland Europe within a few days.



Premium quality is something we take very seriously at Evolution and our ISO 9001 certification demonstrates this. We are dedicated to ensuring quality in everything we do, from our products to our Customer Services and Marketing Support.

WARRANTY INFORMATION

provide an industry-leading warranty on our **EvoShield®** and **Bi-Metal™** fasteners with periods up to:

Evolution is proud to

| Fastener Type | Design Life | WARRANTY |
|--------------------|-------------|----------|
| EvoShield ® | 60 years | 25 years |
| Bi-Metal™ A2 | 60 years | 50 years |
| Bi-Metal™ A4 | 60 years | 60 years |

¹Subject to terms and conditions.

CORROSIVITY CATEGORIES

| Atmospheric Corrosivity Categories and Examples of Typical Environments | | | | | |
|---|------------------------------|--|---|-------------------|--|
| CATEGORY | STEEL LOSS T / YR (MM) | INTERNAL | EXTERNAL | GRADE REQUIRED | |
| C1 (Very Low) | 0.0 - 1.3 | Clean, heated residential rooms without moisture. | Not applicable. | EDZ4 | |
| C2 (Low) | 1.3 - 25.0 | Rooms where condensation can occur. | Rural areas with low pollution. | EvoShield® 500 | |
| C3 (Medium) | 25.0 - 50.0 | Production rooms with some humidity. | Urban areas with moderate pollution. | A2-70 | |
| C4 (High) | 25.0 - 50.0 | Chemical plants, breweries, etc | Urban areas with moderate salinity (1,000 – 2,000m from salt water source). | A4-50 | |
| C4 (High) | 25.0 - 50.0 | Buildings with permanent condensation and high pollution. | Coastal areas (≤ 1,000m from salt water source). | A4-50 | |
| CX (Extreme) | 200.0 - 700.0 | Exceptionally aggressive environments (swimming pools, etc | Offshore | A5-70 | |

Esales@evofas.com T: +44 (0)141 647 7100



R

4.0-22.0mm DRILL GAPAGITY

SEE THE FULL RANGE IN **OUR PRODUCT GUIDE:**



OR CHECK OUT OUR **SMALLER FOCUSED GUIDES:**

















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