

Façade Support & Restraint
Fibre Composite Connectors

Leviat®
A CRH COMPANY

Thermomass Composite Connector Systems

UK & Ireland Edition



Imagine. Model. Make.



We imagine, model and make engineered products and innovative construction solutions that help turn architectural visions into reality and enable our construction partners to build better, safer, stronger and faster.

Leviat is a world leader in connecting, fixing, lifting and anchoring technology.

From the build of new schools, hospitals, homes and infrastructure, to the repair and maintenance of heritage structures, our engineering skills are making a difference around the world.

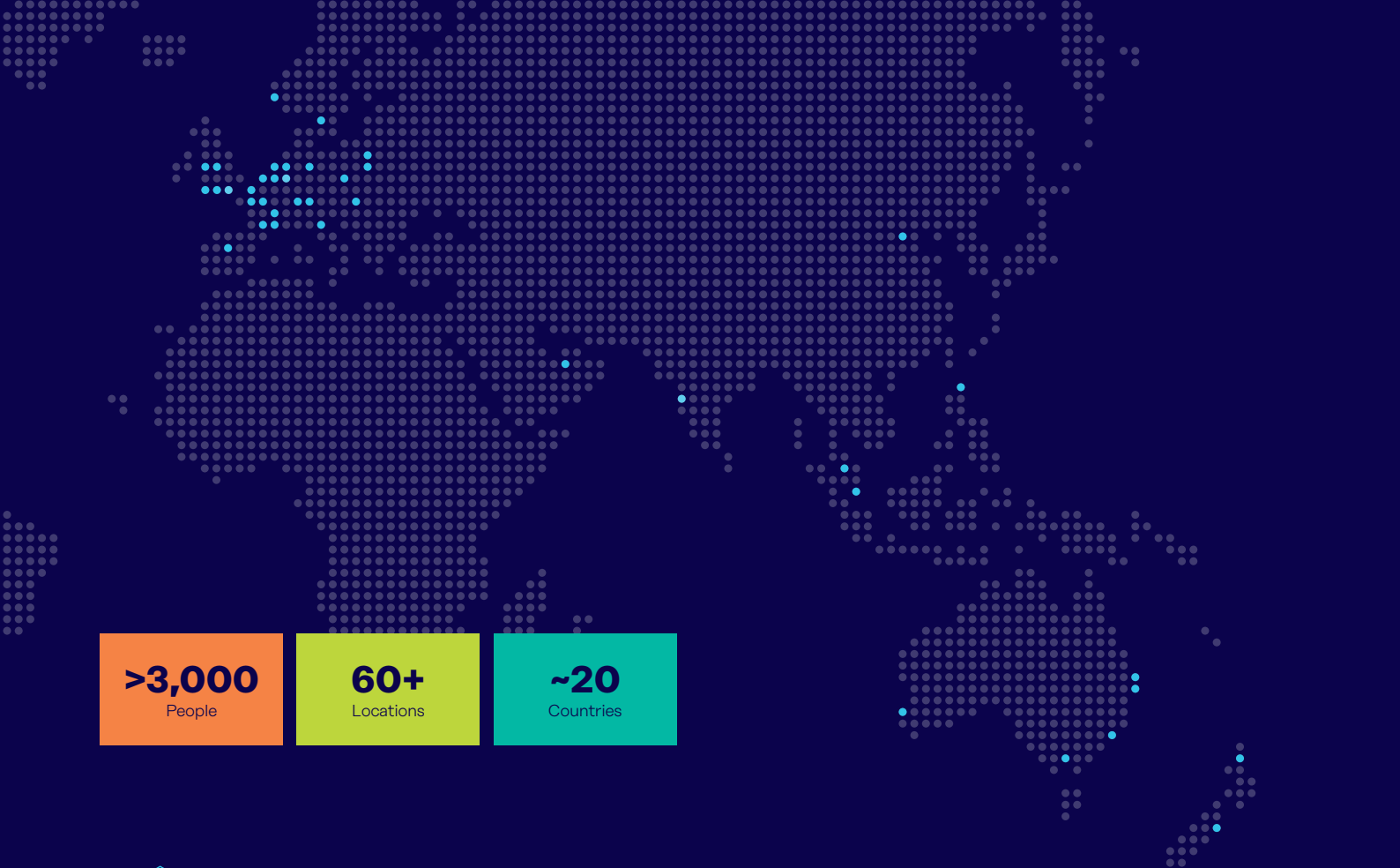
We provide technical design assistance at every stage of a project, from initial planning to installation and beyond.

Our technical support services range from simple product selection through to the development of a fully customised project-specific design solution.

Every promise we make locally, has the commitment and dedication of our global team behind it. We employ almost 3,000 people at 60 locations across North America, Europe and Asia-Pacific, providing an agile and responsive service worldwide.

Leviat, a CRH company, is part of the world's leading building materials business.

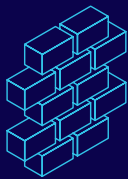




>3,000
People

60+
Locations

~20
Countries

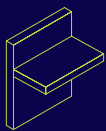


Façade Support & Restraint

Systems for the safe and thermally-efficient fixing of the external building envelope, including brick and natural stone, insulated sandwich panels, curtain walling and suspended concrete façades, and also the repair and strengthening of existing masonry installations.

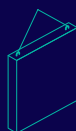
- Masonry Support Systems
- Windposts
- Lintels
- Brick Slip Systems
- Wall Ties & Restraints
- Masonry Reinforcement
- Natural Stone Façade Systems
- Cavity Trays
- Sandwich Panel anchor
- Suspended concrete façade
- Masonry Repair

Other areas of expertise:



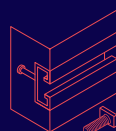
Structural Connections

Systems to form robust, efficient connections, and continuity of concrete reinforcement as necessary, between walls, slabs, columns, beams and balconies, providing structural integrity as well as enhanced thermal and acoustic performance.



Lifting & Bracing

Systems for the safe and efficient transportation, lifting and temporary bracing of cast concrete elements and tilt-up panels before permanent structural connections are made.



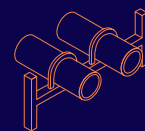
Anchoring & Fixing

Systems for fixing secondary fixtures to concrete, including anchor channels, bolts and inserts; also tension rod systems for roofs and canopies.



Formwork & Site Accessories

Non-structural accessories that complement our engineered solutions and help keep your construction environment operating safely and efficiently, including moulds for casting standard and special concrete elements and construction essentials such as reinforcing bar spacers.



Industrial Technology

Mounting channels, pipe clamps and other versatile framing systems that provide safe fixing in a wide range of industrial applications.

Leviat product ranges:

Ancon | Aschwanden | Connolly | Halfen | Helifix | Isedio | Meadow Burke | Modersohn | Moment | Plaka | Scaldex | Thermomass

The Thermomass composite connector systems

Sandwich panel façades are a highly economical 2-in-1 solution. They combine the supporting structure and the façade in a single building element. The benefits include quick installation.

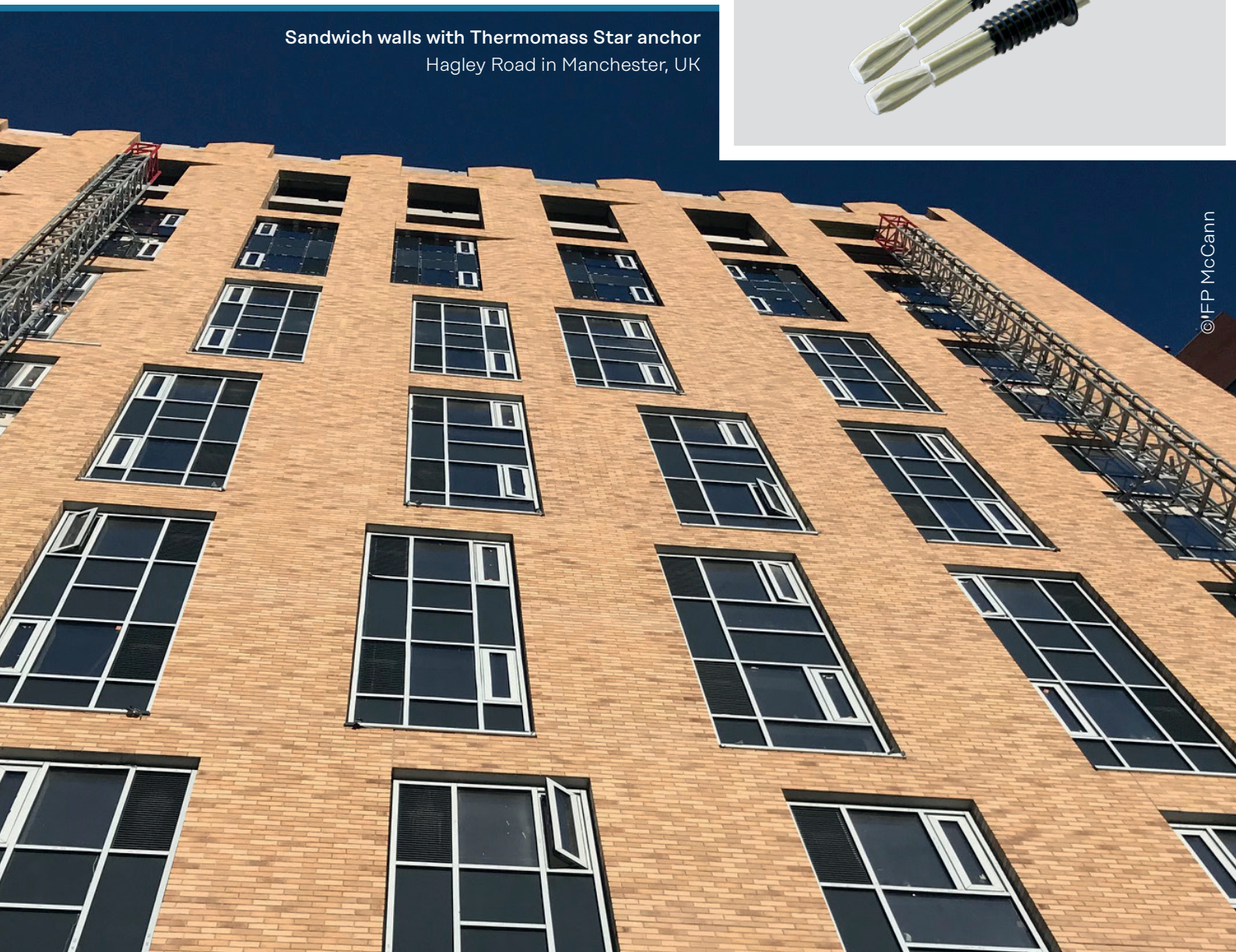
The Thermomass composite connector systems were added to the Leviat product range in autumn 2022. The systems are subject to the strictest quality controls and satisfy the high demands on sandwich panels and thermal wall construction.

Our comprehensive product range has the perfect Thermomass composite connector for every application. All anchors are made of GFRP glass fibre-reinforced polymer.

The Thermomass anchors are made of glass fibres bonded in a vinyl ester resin. This composition produces a low thermal conductive material that is exceptionally stable. In addition, the glass fibre composite anchor systems ensure fast and easy installation and are characterized by their high durability.

For example, for reinforced concrete sandwich applications, the TM MST anchor has a patented twist tip, so pre-drilling the insulation is no longer required. The TM MST anchor is of course DIBt approved.

Sandwich walls with Thermomass Star anchor
Hagley Road in Manchester, UK



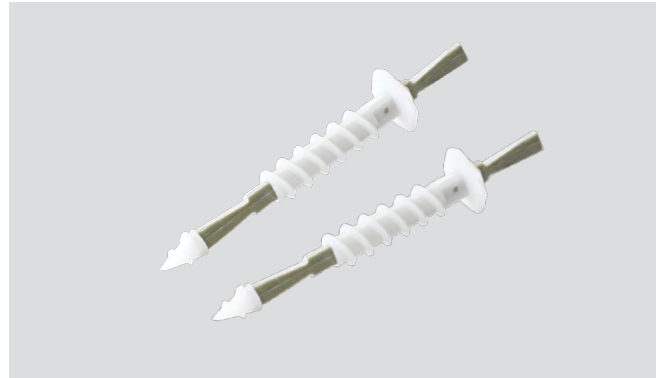
Sandwich panel anchors

TM MST (Twist anchor)

Area of application: Sandwich panels with freely suspended* or supported facing layer

- Transfer of horizontal loads from wind and temperature
- Concrete grade \geq C20/25
- Facings from 65mm to 100mm
- Insulation thickness from 60mm to 180mm

** in combination with TM MC45D*



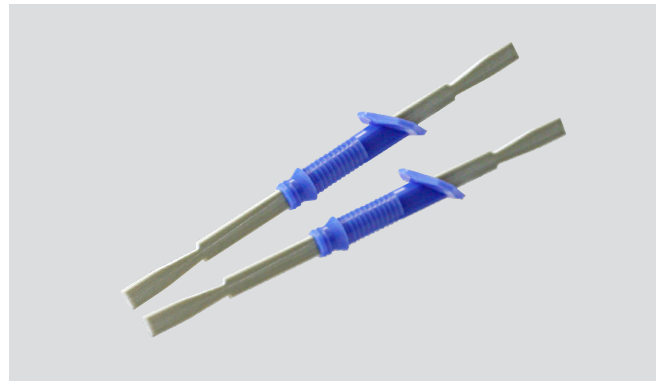
TM MST

TM MC45D (Diagonal anchor)

Area of application: Sandwich panels and thermal walls with freely suspended facing layer*

- Transfer of vertical loads from dead-weight
- Concrete grade \geq C20/25
- Facings from 65mm to 100mm
- Insulation thickness from 60mm to 180mm

** only in combination with TM MST*



TM MC45D

Advantages:

- Excellent thermal heat efficiency
- Colour coded sleeves for easy identification
- Easy and time-saving installation
- It is not necessary to fix the anchor to the slab reinforcement
- Building authority approved (Z-21.8-2108)
- TM MST: No pre-drilling of the insulation necessary
- TM MST: Installation tool is provided

Sandwich panel anchors

TM ST12R2 (Star anchor)

Area of application: Sandwich panels with freely suspended or supported facing layer

- Transfer of vertical loads from dead-weight, up to 120mm insulation thickness $\leq 120\text{mm}$
- Transfer of horizontal loads from wind and temperature
- Concrete grade $\geq \text{C30/37}$
- Facings $\geq 60\text{mm}$
- Insulation thickness from 30mm to 400mm



TM ST12R2

TM X-Connector

Area of application: Composite sandwich panels

- Transfer of vertical loads from dead-weight
- Transfer of horizontal loads from wind and temperature
- Concrete grade $\geq \text{C30/37}$
- Facings $\geq 60\text{mm}$
- Insulation thickness from 60mm to 250mm



TM X-Connector

Advantages:

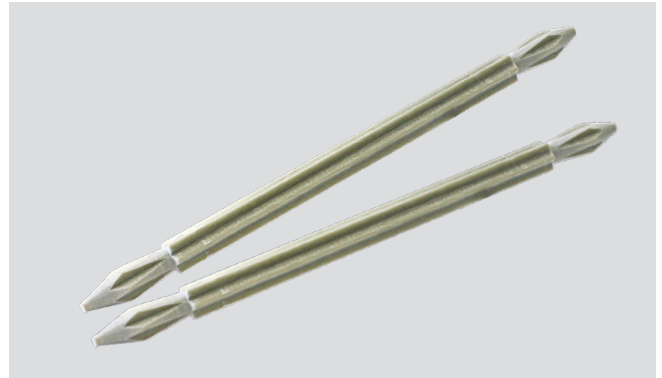
- High thermal-heat effectiveness
- Colour coded sleeves for easy identification
- Can be used quickly and easily
- Can be used without fixing to the slab reinforcement
- The star anchor can be used without a diagonal anchor in thin insulation thicknesses

Thermal wall connectors

TM ST12R4

Area of application: Thermal walls

- Transfer of dead-loads (compression) during production in the precast plant
- Transfer of horizontal loads (concrete pressure, soil pressure)
- Concrete grade: in the precast plant \geq C30/37
- On-site concrete grade \geq C20/25
- Thickness of the concrete shells \geq 60mm
- Wall thicknesses from 300mm to 500mm

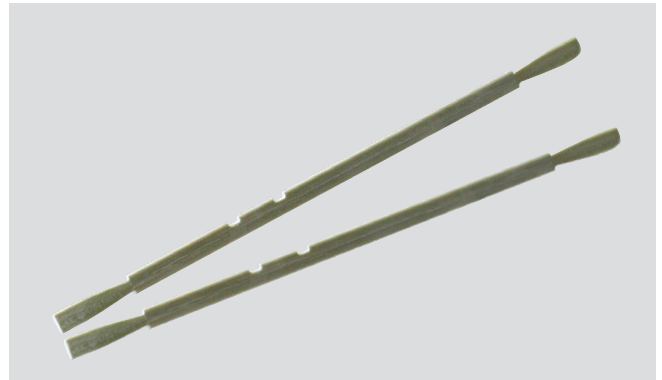


TM ST12R4

TM AGMC

Area of application: Thermal walls

- Transfer of horizontal loads (concrete pressure, soil pressure)
- Concrete grade: in the precast plant \geq C30/37
- On-site concrete grade \geq C20/25
- Thickness of the concrete shells \geq 60mm
- Wall thicknesses from 300mm to 400mm



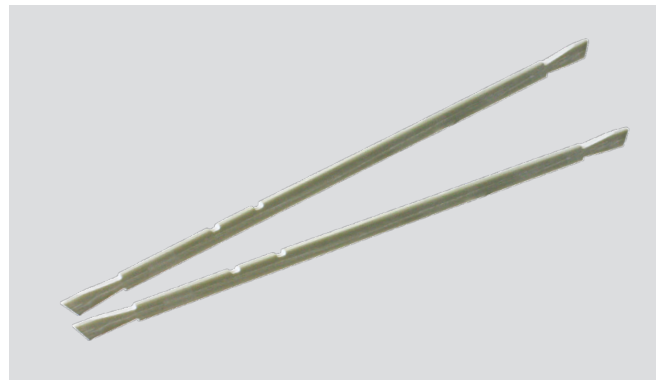
TM AGMC

TM MAGMS

Area of application: Thermal walls

- Transfer of horizontal loads (concrete pressure, soil pressure)
- Concrete grade: in the precast plant \geq C30/37
- On-site concrete grade \geq C20/25
- Thickness of the concrete shells \geq 50mm
- Wall thicknesses from 350mm to 450mm*

** assumes a concrete cover of 2 x 6mm*



TM MAGMS

Advantages:

- Low thermal-heat transfer
- Optionally available with or without sleeve
- The sleeves are colour coded to prevent mix-ups on-site
- Easy anchor installation
- Ready for immediate use: without fixing to the slab reinforcement

Connecting quality with service

We are changing; join us on the road to the future.

Our company is currently undergoing exciting changes that allow us to provide an improved range of products and services.

Leviat combines the expertise, skills and resources of CRH Construction Accessories into a single global organisation.

Leading, trusted, industry product brands including Ancon, Aschwanden, HALFEN, PLAKA and Thermomass have come together under the Leviat name to provide you with better support.

We have consolidated our individual strengths to respond more flexibly to your requirements.

This is what you get:

With effective use of our global engineering resources and production facilities, we are able to be more flexible and responsive, and therefore improve our local services.

By combining our extensive technical expertise and knowledge of the markets as well as coordinating all our research and development activities, we will be able to drive innovation faster and more effectively.

We are your partner in planning and construction and can provide technical support at every stage of your project, from initial planning right through to final completion.

We provide:

- Technical support
- Professional calculation software
- Planning documentation
- Our extensive Know-how

Please contact your local leviat representative for more information about our entire cross-brand range of products.

Leviat

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