

stylishTM

metal facade
innovation

genius

genius

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what is genius?

This innovative range of metal rainscreen systems allow a precise and efficient installation, with perfect joint lines and accurate tolerances.

genius has evolved following years of research and development by industry specialists within the facades marketplace.

The common misconception is that innovative and stylish metal façade systems are expensive and perceived to be complicated to install and detail. **genius** will allow you to achieve a stunning metal façade at a very competitive cost.

More and more developments are calling for fast track construction techniques to enhance performance with regard to build time and programme.

Clients are demanding reduced build time and weather tightness as a necessity to ensure that the schemes can be complete as soon as possible.

genius offers both the specifier detailing and the subcontractor installing, a generic framing system to support the range of genius facades, excluding the **unitised** and **breeze** systems.

/key features

- **genius** systems are exclusively tested at Wintech Engineering Limited to current CWCT standards and compliant to latest NHBC technical notes.
- **genius** is an exceptionally simple system to design, to detail and install.
- **genius** benefits from a single support system that is designed to carry several different **genius** façade treatments.
- Whether you are looking for bespoke curved architectural façade metal panels or a basic flat panel application, the **genius** range has the solution.
- **genius** offers a lifetime guarantee on anodising, 40 years on Synthatec PPC and 30 years on standard PPC.

WINTech
BUILDING ENVELOPE TESTING



breeze

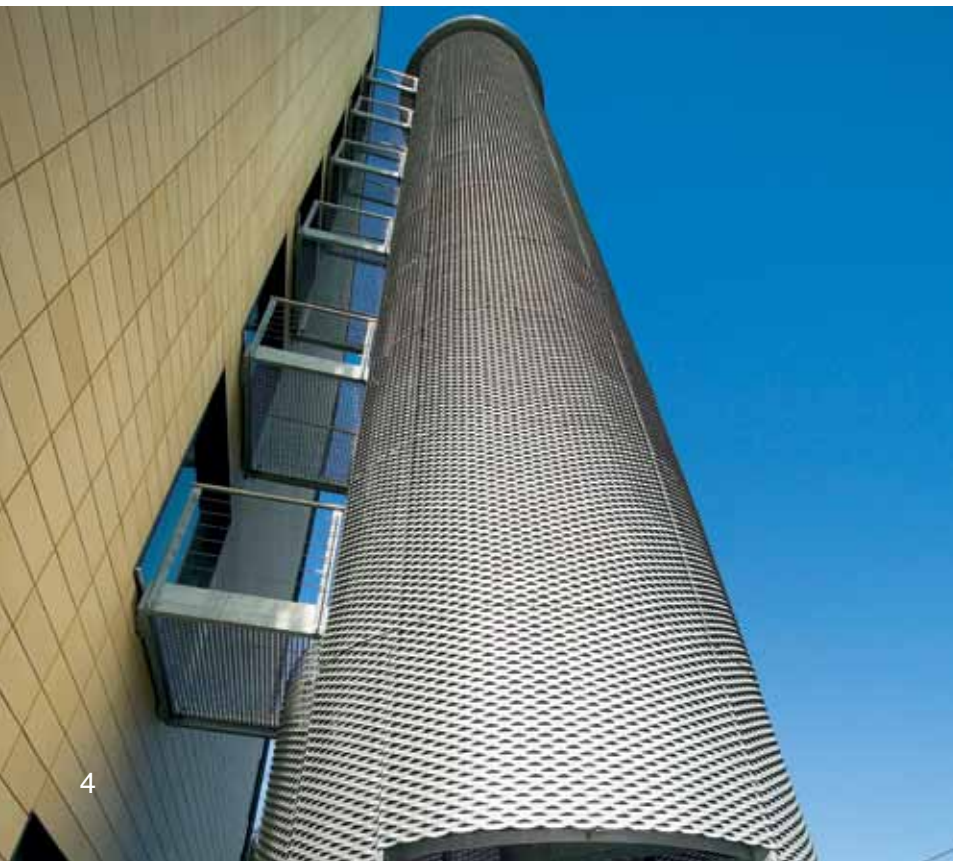
After careful years of development and industry demand many clients have been asking for a wide range of versatile ventilated expanded mesh and perforated panel facades.

genius breeze perforated screens are ideal for creating a contemporary facade offering an instant transformation on refurbishments and new builds.

TM have a wide range of mesh patterns available and can offer either mill, powder coated or anodised finishes.

genius breeze expanded mesh offers the perfect solution for the technical/application needs of modern architecture, and especially where proven guarantees of safety and protection are required.

For technical details please see page 18





genius

/key features of genius breeze:

- Open - solid. Light - dark. Light and shadows. Expanded mesh always offers a new look.
- Processing of different materials. The technological process for expanded metal means we deal with a wide range of metal: steel, pre-galvanized steel, aluminium, copper, brass and stainless steel.
- Eco-compatible, recyclable materials. Our expanded metal processes have a low environmental impact; the resulting material can be easily recycled.
- **genius breeze** offers an engineered cost effective solution to all your expanded metal and perforated panel requirements.
- We have the full capabilities to fabricate bespoke and standard fixing grids for the application of the **genius breeze** and can facilitate complex shapes, designs, images and applications accordingly.

/various mesh formats are available upon request.

These products can be supplied in an extensive range of NCS, RAL and anodised finishes. Minimum quantities and extended lead times may apply in some instances. Please ask your local **TM** representative for more information.



planar

genius planar is part of the latest high quality extruded 6060-T6 aluminium range.

planar allows the architect to be able to select a precise and flat façade rainscreen panel with the accuracy associated with extruded aluminium. The linear expansion is 1mm/1000mm and the height expansion is 0.33mm/190mm.

planar standard sizes are 1200x100/200/300mm (LxH) and maximum lengths can be up to 6000mm*. Additional lengths can be formed by using the **genius planar** butt straps. For sizes outside the standard range please consult a **TM** representative.

The **genius planar** panels are truly engineered components that offer precise and durable façade elements. As with most extruded aluminium components the choice of design is only limited by the imagination of the designer.

The system is also ideal for the replication of terracotta tiles and timber where any colour can be achieved and incredible impact resistance is assured.

* Where 4-6 metre lengths are required please contact a **TM** representative. For technical details please see page 12

curvation

genius curvation is part of the latest high quality extruded 6060-T6 aluminium range.

The system is totally unique and new to the UK. Until now, the only way that a curved façade panel could be fabricated was to 'roll' the façade plate to the desired radius. As **curvation** is an extruded section, the accuracy achieved is extremely precise and assured to be consistent throughout the project. Thus, **curvation** allows the Architect to be able to select a curved façade rainscreen panel with the accuracy associated with extruded aluminium, the linear expansion is 1mm/1000mm and the height expansion is 0.33mm/190mm.

curvation standard sizes are 1200x100/200/300mm (LxH) and maximum lengths can be up to 6000mm*. For sizes outside the standard range please consult a **TM** representative.

* Where 4-6 metre lengths are required please contact a **TM** representative. For technical details please see page 13

/why not consider the advantages of a powder coated finish.

- **Fusion bonded coating:** Forms a thicker coating, providing 30 and 40 years guarantee on standard and Synthatec from the Syntha Pulvin range.
- **Environmentally friendly:** Since there are no solvents used, no volatile organic compounds (VOC) are released into the atmosphere, which makes the process more environmentally friendly than liquid finishing.
- **No carcinogens:** Powder coating does not involve harmful carcinogens, unlike the liquid spray paint finish method.
- **Easily disposed:** The waste produced during the process can be recycled or disposed of in an environmentally friendly manner.
- **Energy efficient:** Powder coating processes require significantly less energy for production.
- Powder coating is an excellent alternative for creating a functional and beautiful finish for aluminium extruded products.

/or why not consider an anodised finish

- **Durability:** Since anodised aluminium extrusion products have a protective layer, they are more resistant to wear from normal handling, usage and exposure. The impact resistance of **planar** is tested and approved to perform to latest test criteria. It is ideally suited for coastal environments and is accompanied by a lifetime guarantee.
- **Finishing:** The process creates a more aesthetically pleasing finish, with either a clear or colourized appearance.
- **Corrosion resistance:** The outer coating produced by this process, increases the corrosion resistance of the surface as it prevents oxidization.
- **Lasting Colour:** The colour finish added to anodised aluminium is more enduring due to the surface obtaining more adhesive and porous qualities during the anodising process. The anodic film coating allows for effective dyeing processes to be applied.
- **Strength:** The anodised aluminium surface is harder than pure aluminium.

These products can be supplied in an extensive range of NCS, RAL and anodised finishes. As well as unique mineral, terracotta and timber finishes. Minimum quantities and extended lead times may apply in some instances. Please ask your local **TM** representative for more information.



secret

genius secret is a secret fix system that combines the perfect joints of the **genius** range and benefits of no visible fixings.

Architects looking for a smooth continuous joint now have the opportunity to specify the **secret** system. The system is available in ACM, PPC Aluminium, Zinc and zinc lookalike for a wide palette of colour and materials.

genius secret was recently used on the iconic control tower at Birmingham airport. The control tower was an extremely demanding design due to the nature of the progressive shape of the tower as it gained height. The contractor decided to use the **genius secret** system to simplify the installation and regulate the joint widths whilst remaining a true secret fixed system as demanded by the architect.

The method of the fixing detail chosen can have a fundamental and dramatic effect upon the completed appearance of the building to be clad. Using a secret fix method will result in a smooth facade unobstructed by fixings.

Where the budget may not afford materials such as zinc, copper or bronze, a full range of lookalike ACM's are available upon request.

For technical details please see page 14

genius

/key features of genius secret & discrete:

- Available in large format panels and without the necessity for costly stiffeners whilst utilising the genius panel deflection bracket.
- Allows for generic detailing by the designer and ease of installation by the installer.
- Fully tested and accredited system to CWCT standards by Wintech Engineering Ltd.
- Available with secret, concealed or visible fixings.
- Exceptionally simple by design system to detail and install.
- Benefits from a single support system that is designed to carry several different genius facade treatments.

discrete

genius discrete has been developed with both costs and aesthetics in mind.

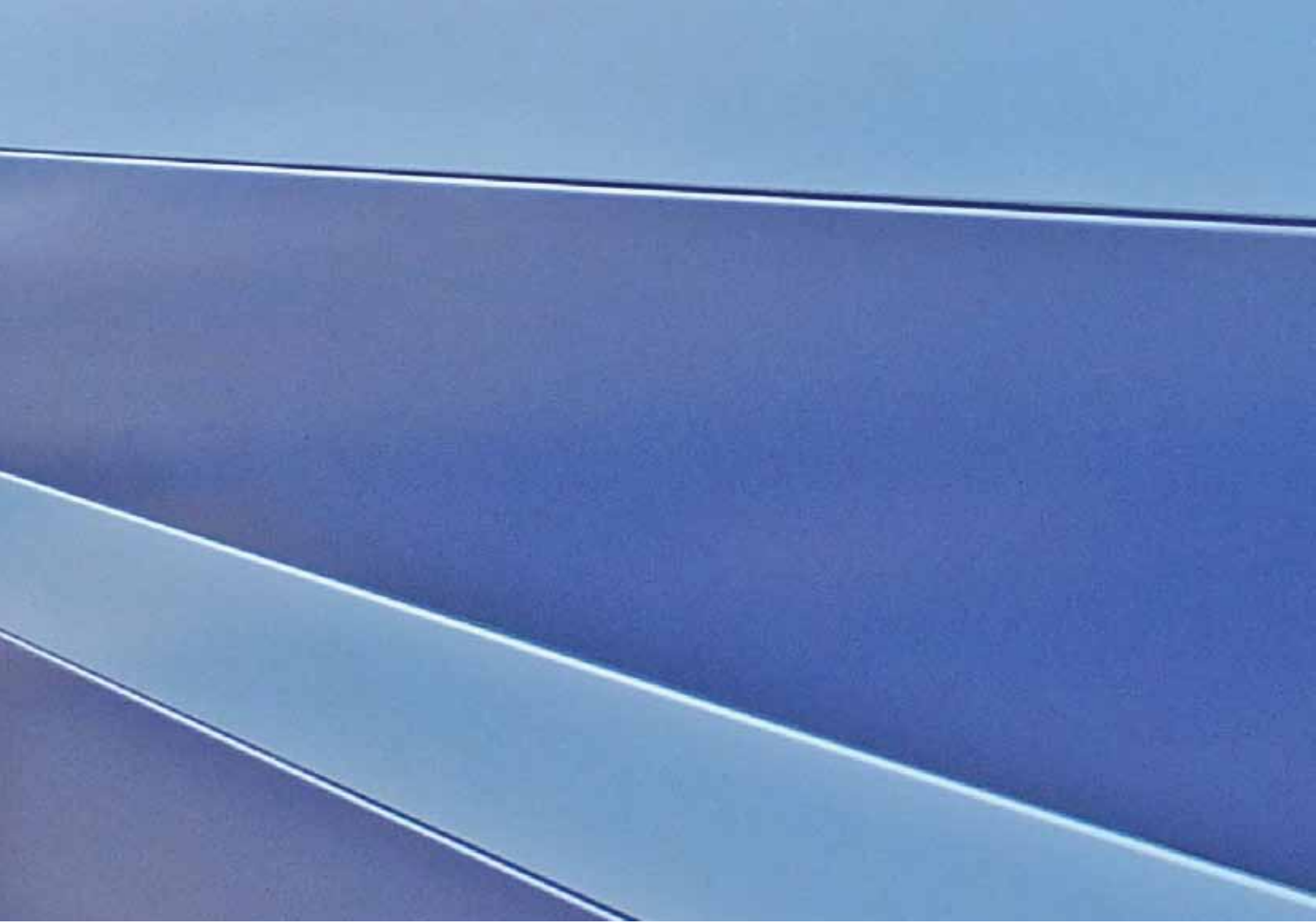
This system allows for an extremely cost effective façade to be applied where cost constraints are more demanding. The fixings are discretely placed within the panel joints, which allows for rapid installation and minimal design time. A wide variety of materials and finishes are available such as:

- ACM - why not consider the colour changing chameleon range or innovative self-cleaning ACM?
- Aluminium (PPC/anodised)
- Zinc/brushed stainless steel
- Stone and timber lookalikes.

Where secret fixing is not considered to be crucial to the design or cost plan, **genius discrete** is the perfect choice for your façade treatment.

Many projects demand the need for individual demountable panels for mast climber and scaffold ties that obstruct clear runs of continuous progress of installation, **discrete** facilitates this requirement!

For technical details please see page 15



linear

Although plank profiles are generally used mainly for fascia and soffit applications, it is also possible to use them for a cost effective main façade solution.

genius linear panels are available in most metal materials and finishes including polyester powder coated aluminium, anodised coatings, stainless steel, perforated, zinc and zinc lookalike.

genius linear are secret fixed panels that give the effect of a floating system. Specifiers are constantly looking for that elusive budget system that can still achieve a pleasing aesthetic look within cost parameters.

linear standard sizes are 3600x100/200/300/400mm (LxH) and maximum lengths can be up to 4000mm. For sizes outside the standard range please consult a **TM** representative. Several styles of **linear** panels are available in standard, perforated and bespoke formats.

The application of the vertical **linear** 'standing seam' profile gives the appearance of a traditional standing seam system at a fraction of the cost.

For technical details please see page 16

/key features of genius linear:

- High quality, simple, economical installation is assured with Genius Linear.
- Rapid, easy accurate installation.
- Recyclable.
- Fully tested and accredited system to CWCT standards by Wintech Engineering Ltd and compliant to latest NHBC technical notes.
- A huge choice of colours and materials can be incorporated on a single project.
- A variety of finishes may be incorporated on one Genius façade to create an almost limitless effect of colours, textures and profiles.
- Plank lengths available up to 4000mm.

These products can be supplied in an extensive range of NCS, RAL and anodised finishes. As well as unique mineral, terracotta and timber finishes. Minimum quantities and extended lead times may apply in some instances. Please ask your local **TM** representative for more information.

unitised

genius unitised is a state of the art true unitised façade system.

genius unitised allows the architect to be able to select a precise prefabricated façade system with the alignment accuracy associated with **unitised** applications.

unitised façades comprise of prefabricated units, which are typically the width of the facade bay and one or two storeys high.

Each panel is fully clad and sealed off site, allowing the units to be moved to site for fast installation on to pre-prepared fixings to either steel or concrete frames.

The **unitised** panels can use any combination of profiles, to give building designers complete aesthetic flexibility.

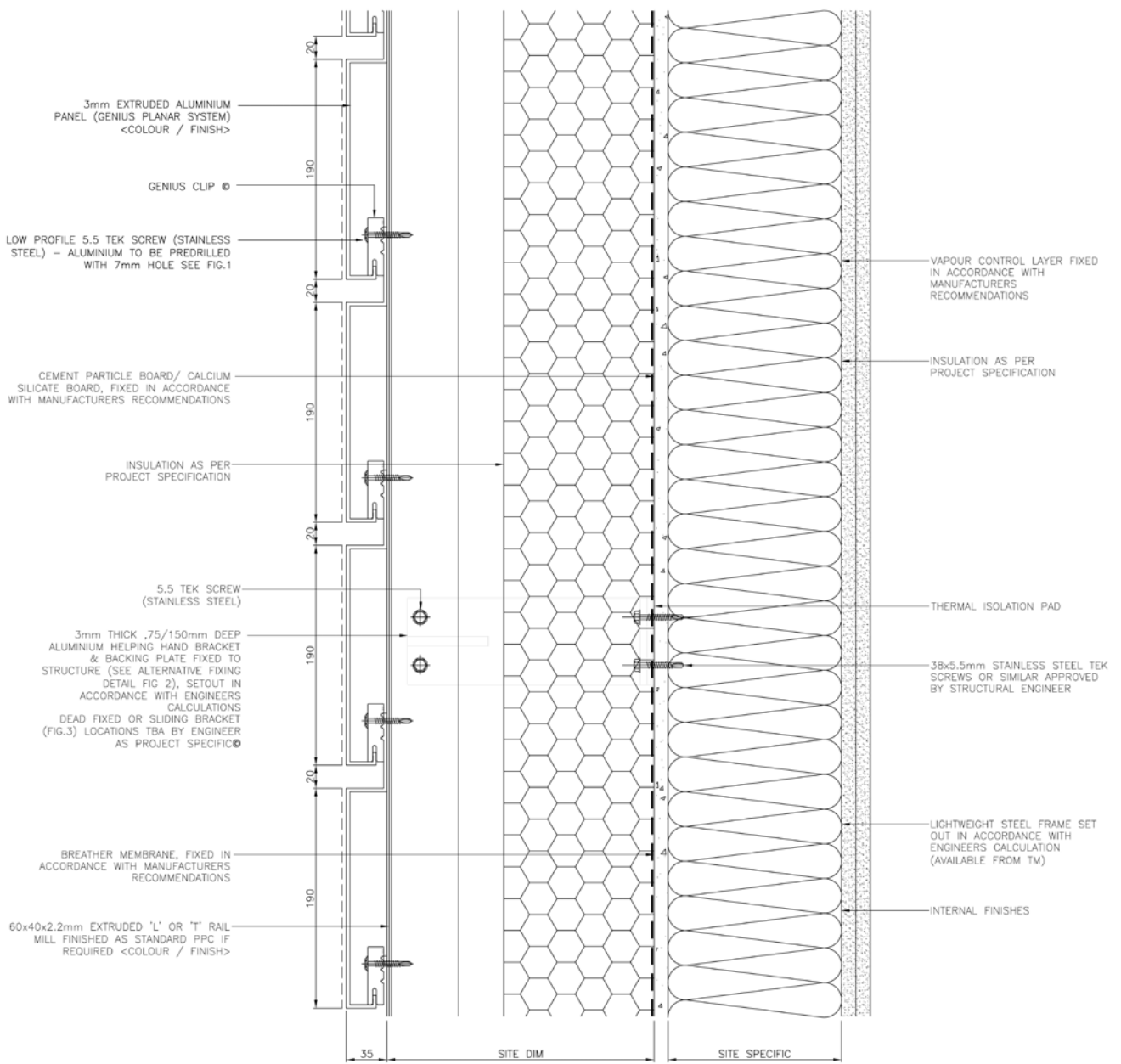
For technical details please see page 17

/key features of genius unitised:

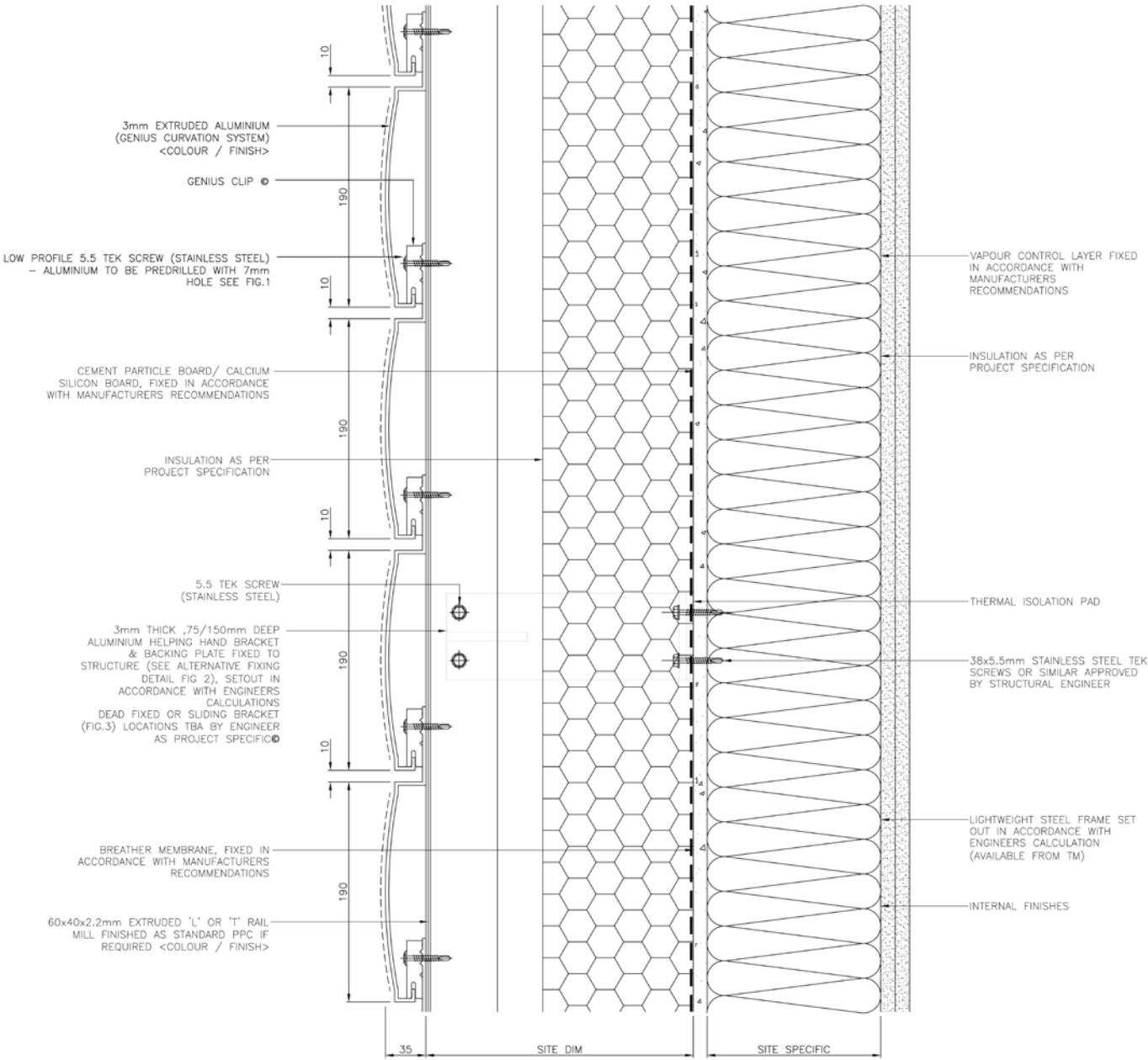
- Reduced programme times.
- **Aesthetics.** The façade has a significant impact on the marketability of a building, whether it is for commercial office space or new apartments for sale.
- Excellent quality control.
- **Prompt return on investment.** Speedy fitting out is possible on a floor-by-floor basis as the building envelope on each level is completed, leading to earlier occupation and a faster return on investment for the client.
- Reduced handling and storage.
- Reduced waste.

These products can be supplied in an extensive range of NCS, RAL and anodised finishes. Minimum quantities and extended lead times may apply in some instances. Please ask your local **TM** representative for more information.

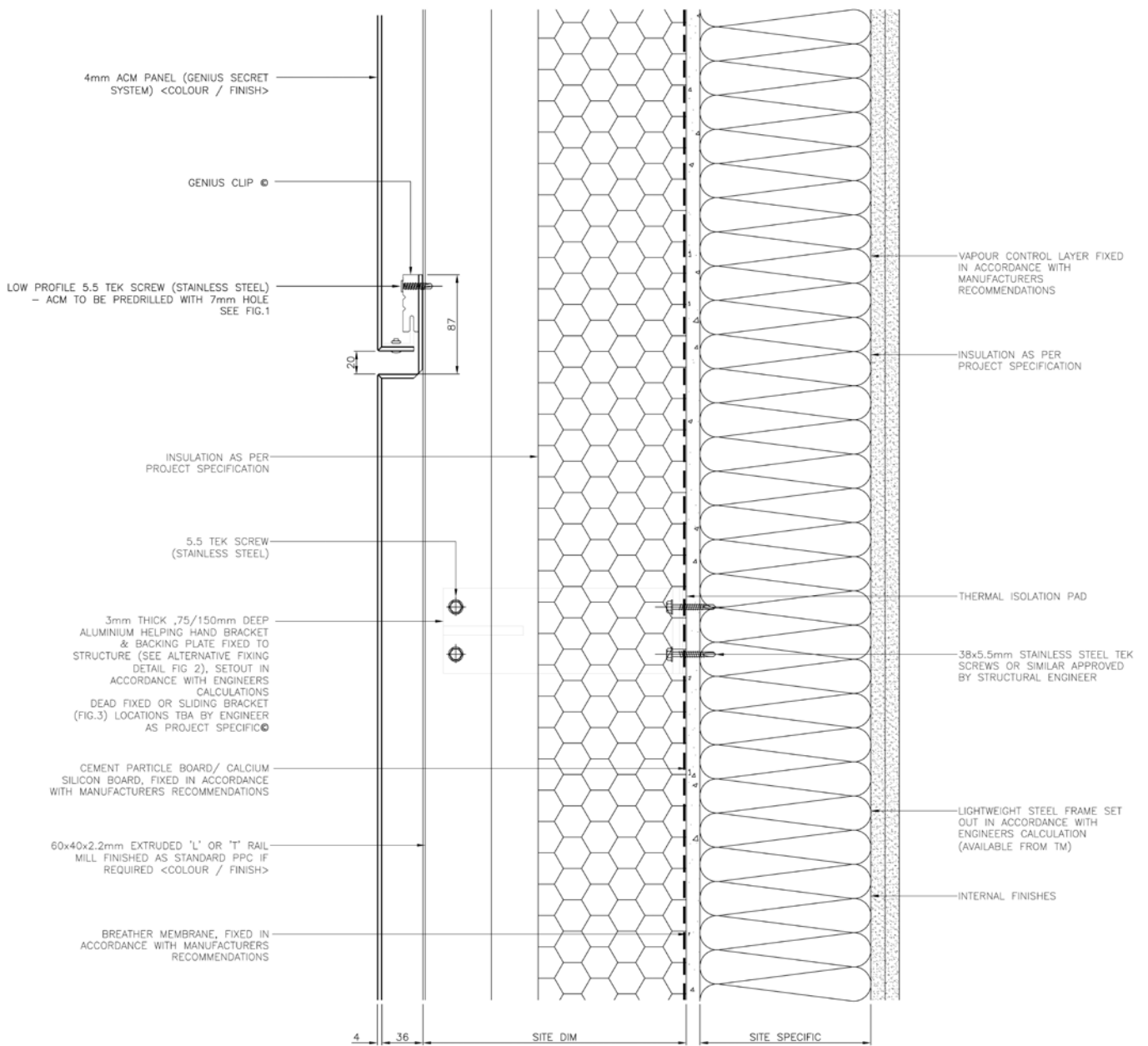
planar / technical section



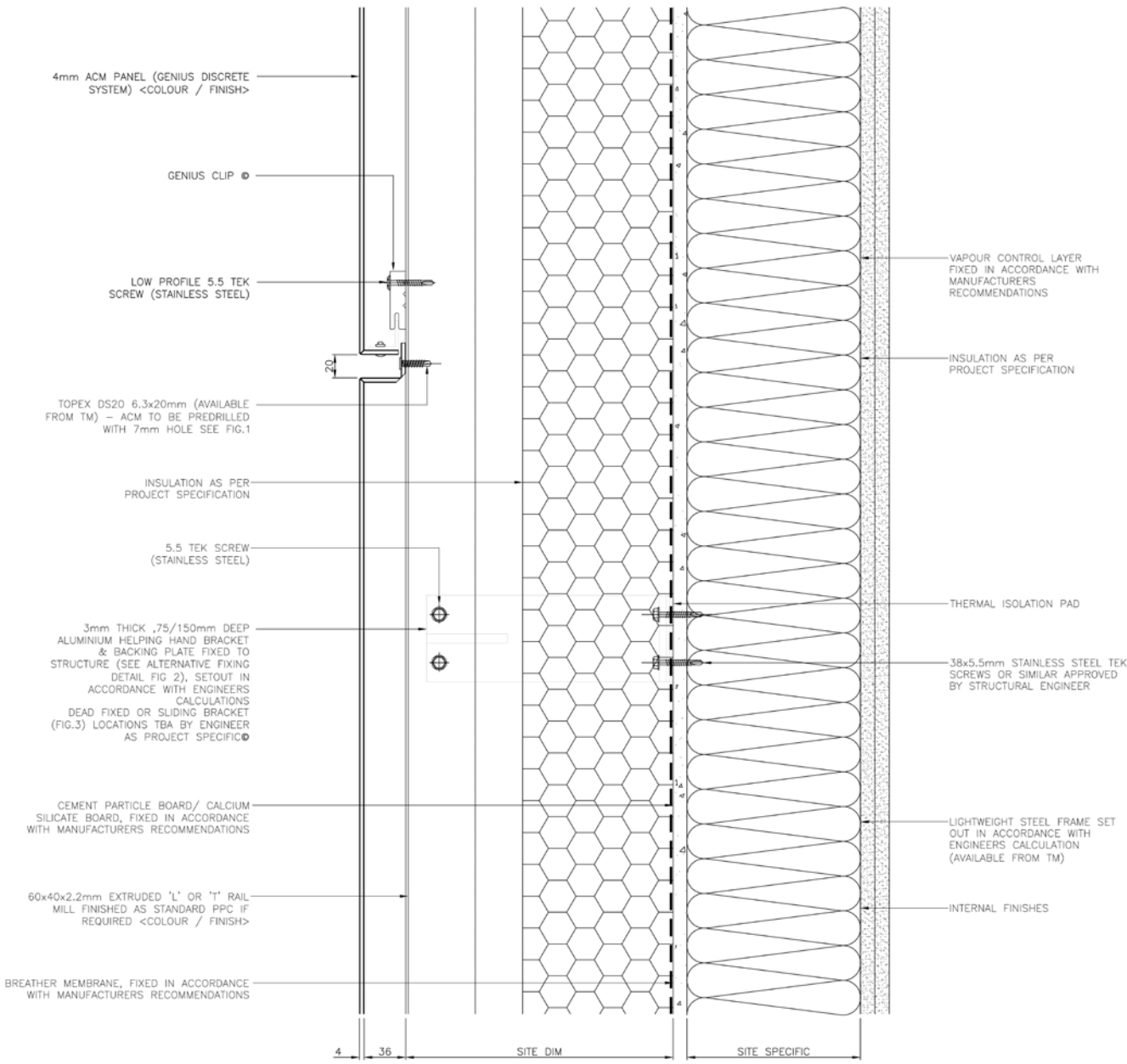
curvation / technical section



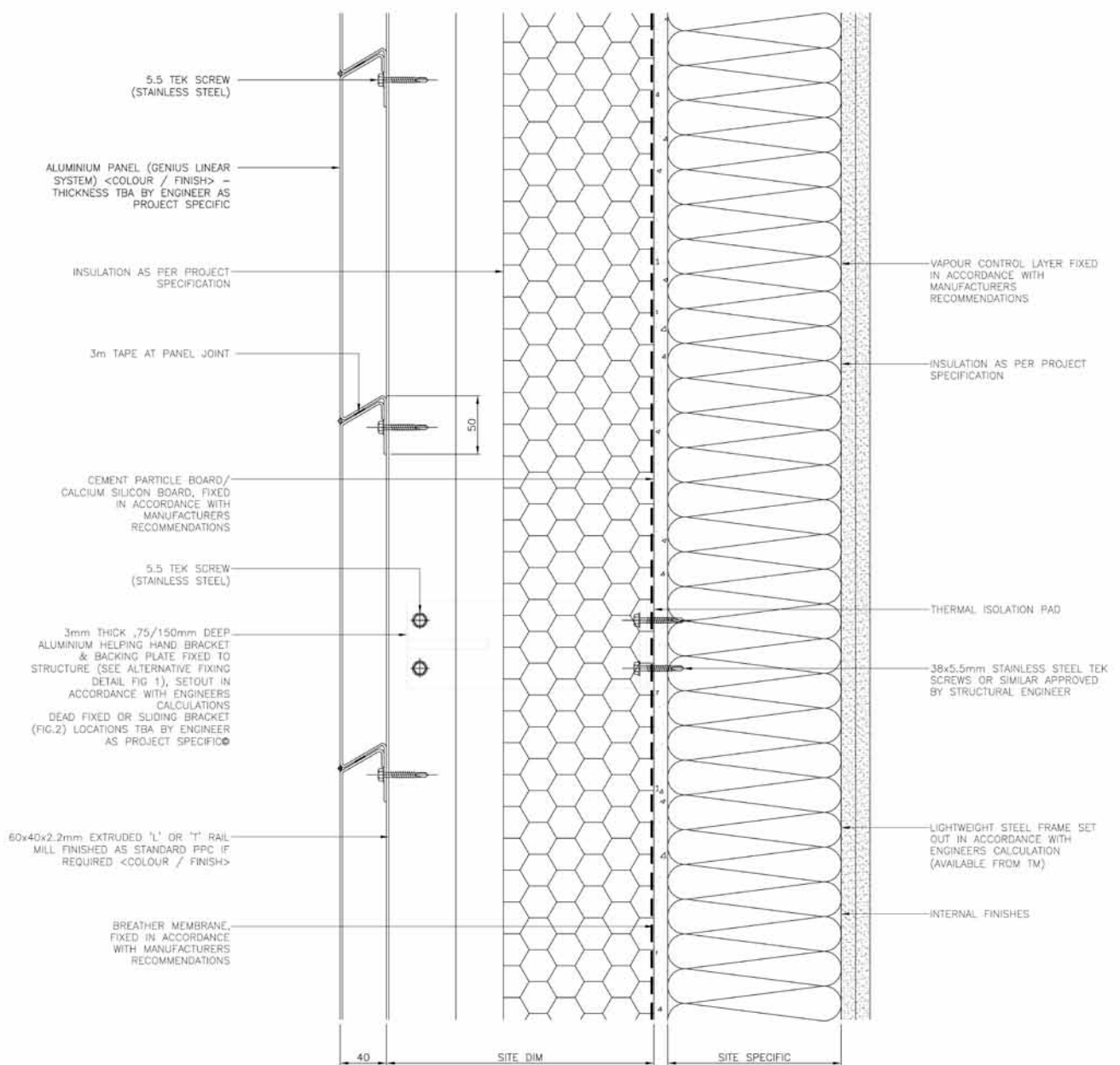
secret / technical section



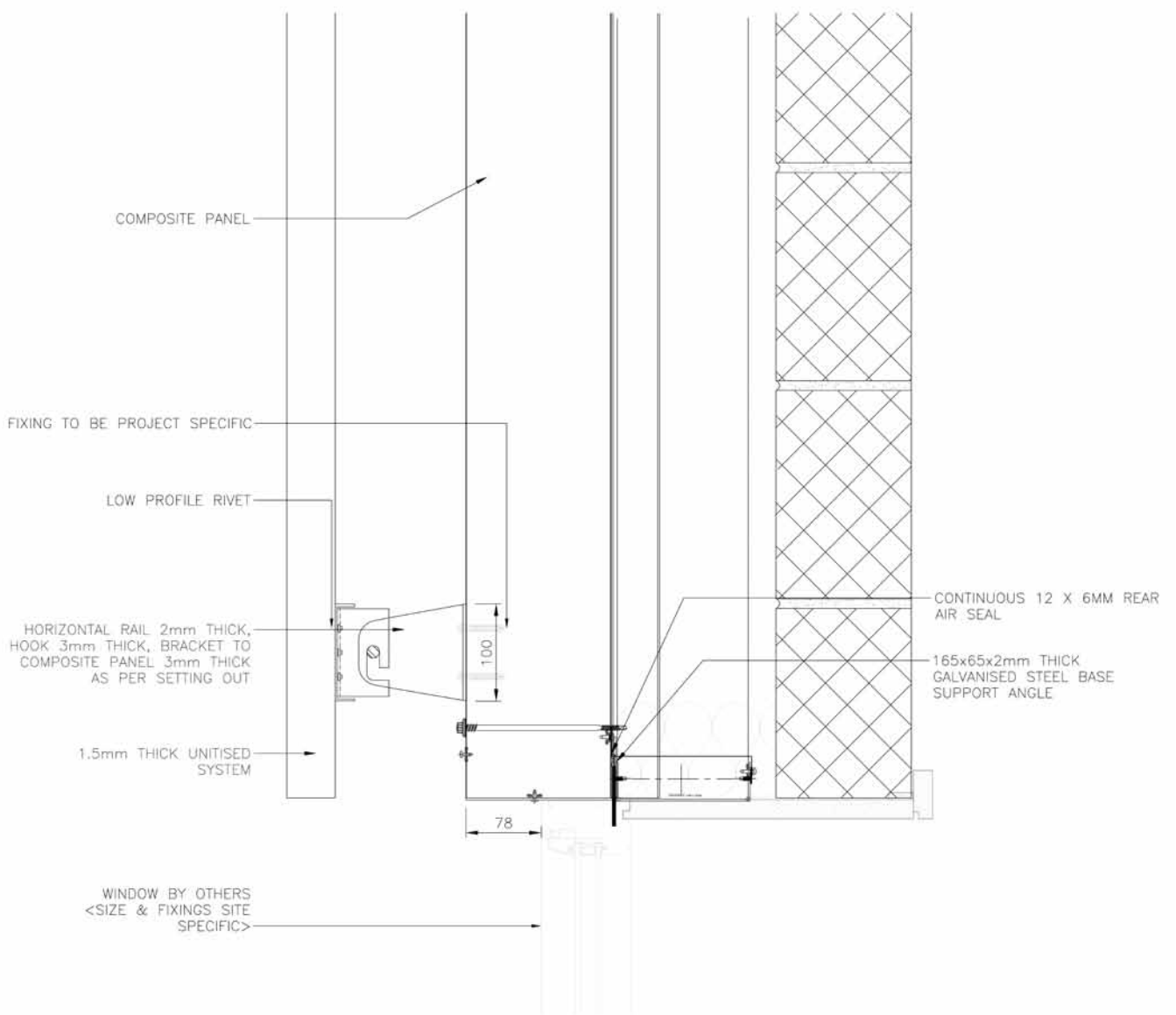
discrete / technical section



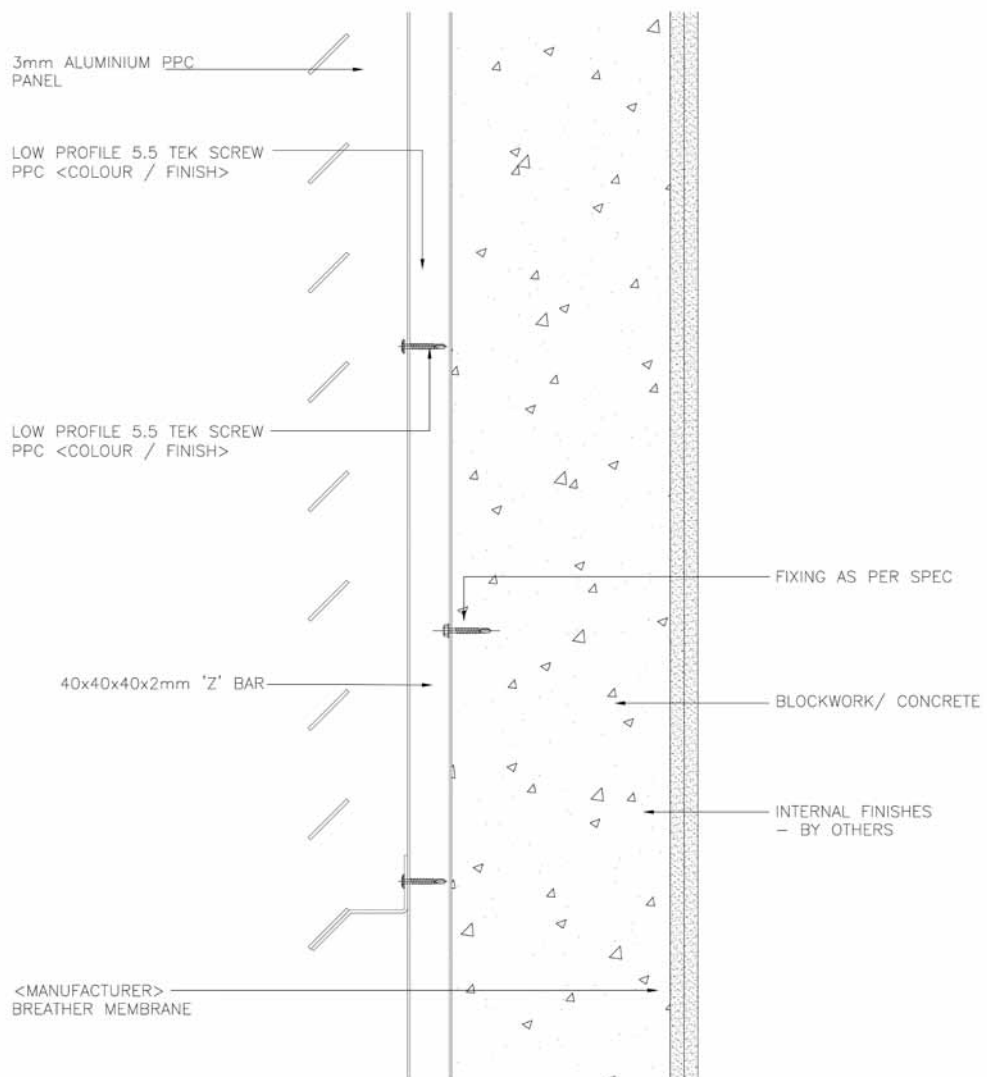
linear / technical section



unitised / technical section



breeze / technical section



genius



Penetration Test Lab

feeling inspired?

contact your nearest facades solutions provider

Taylor Maxwell Glasgow

Centurion Business Park, 3 Seaward Place, Kinning Park, Glasgow, G41 1HH
T: 0141 418 0300 F: 0141 418 0500 E: glasgow@taylor.maxwell.co.uk

Taylor Maxwell Edinburgh

1a Clerk Street, Loanhead, Edinburgh, EH20 9DP
T: 0131 448 2020 F: 0131 448 2720 E: edinburgh@taylor.maxwell.co.uk

Taylor Maxwell North East

Unit 16, Bankside, The Watermark, Gateshead, NE11 9SY
T: 0191 460 4736 F: 0191 461 1115 E: northeast@taylor.maxwell.co.uk

Taylor Maxwell Leeds

Unit 1, Bramley Grange, Skeltons Lane, Leeds, LS14 3DW
T: 0113 204 3220 F: 0113 204 3225 E: leeds@taylor.maxwell.co.uk

Taylor Maxwell Manchester

Carlton House, 18 Albert Square, Manchester, M2 5PE
T: 0161 832 5213 F: 0161 832 0926 E: manchester@taylor.maxwell.co.uk

Taylor Maxwell Nottingham

9 The Triangle, Enterprise Way, ng2 Business Park, Nottingham NG2 1AE
T: 0115 969 9351 F: 0115 986 1940 E: nottingham@taylor.maxwell.co.uk

Taylor Maxwell Birmingham

6080 Knights Court, Solihull Parkway, Birmingham Business Park, B37 7WY
T: 0121 329 1440 F: 0121 779 5593 E: birmingham@taylor.maxwell.co.uk

Taylor Maxwell Cardiff

13 Cathedral Road, Cardiff, CF11 9HA
T: 02920 374 545 F: 02920 238 542 E: cardiff@taylor.maxwell.co.uk

Taylor Maxwell Bristol

Taylor Maxwell House, The Promenade, Clifton, Bristol, BS8 3NW
T: 0117 923 7083 F: 0117 973 8255 E: bristol@taylor.maxwell.co.uk

Taylor Maxwell Barnet

Cosmo House, 53 Wood Street, Barnet, EN5 4BS
T: 0208 440 0551 F: 0208 440 0552 E: barnet@taylor.maxwell.co.uk

Taylor Maxwell Witham

The Matchyns, Rivenhall End, Witham, CM8 3HA
T: 01376 515 055 F: 01376 515 066 E: witham@taylor.maxwell.co.uk

Taylor Maxwell Leatherhead

Ashcombe House, 5 The Crescent, Leatherhead, Surrey KT22 8DY
T: 01372 388 366 F: 0118 930 2888 E: leatherhead@taylor.maxwell.co.uk

Taylor Maxwell Winchester

Winchester House, Basingstoke Road, Kings Worthy, Winchester, SO23 7QF
T: 01962 718 240 F: 01962 715 983 E: winchester@taylor.maxwell.co.uk



Taylor Maxwell House
The Promenade
Clifton
Bristol BS8 3NW

T: 0117 973 7888

taylormaxwell.co.uk/facades