

RAINSCREEN CLADDING

Bespoke secret fix Rainscreen cladding system
available in range of materials and finishes.
Delivering your design



BAILEY[®]
TOTAL BUILDING ENVELOPE



Bailey Rainscreen
cladding systems
provide a bespoke
solution to your project
with support from
design and specification
to delivery of your
design.



OVERVIEW

Bailey is a long established company with over 25 years of experience and technical expertise in facades and total building envelope solutions.

Bailey's commitment to providing a first class service starts with a technical appraisal of your project requirements, and extends through to delivery of high quality products. Every stage from specification through to installation is backed by our commitment to 100% customer satisfaction.

Bailey's product range of external facade options ranges from the simple recessed fix metal trays through to more complex ACM panels and honeycomb cord composite systems. Pressed metal panels are available in fully secret fixed systems, utilising either cassette or hook-on type joint details.

Whatever the specification, Bailey Rainscreen cladding systems can be produced in a range of metals and finishes to meet any project requirements. In addition, for refurbishment projects Bailey Rainscreen Cladding can be used as an overcladding solution.

Renowned for their inherent detail quality, Bailey Rainscreen cladding systems are increasingly used on prestigious new build projects where long-term performance and the aesthetics of the building façade are of paramount importance.

Bailey technical and specification team are on hand to help you choose the right solution for your project, including assistance with complex detailing, samples, thermal performance, specification writing and aesthetics. Bailey Rainscreen Cladding is a high performing, cost effective, façade system.

WHY SPECIFY BAILEY RAINSCREEN CLADDING?

- Option of entirely secret fix system
- Rapid to install
- Support system can accommodate high levels of insulation
- Suitable for new build or refurbishment applications
- Range of materials and finishes
- Technical support
- Adaptable standard range and bespoke solutions available
- Low maintenance and low whole building lifecycle costs
- Outstanding performance
- Cost effective
- Design flexibility
- Durable

Rainscreen cladding material options

Bailey Rainscreen cladding is available in a wide range of materials including:

- Aluminium
- Coreten steel
- Stainless steel
- aluminium composite material (ACM)
- aluminium honeycomb composite
- Zinc





Finishing Options

Bailey understands it is the finishing which completes the project and have developed a wide range of finishes which are available for any system:

Anodised – available in any one of 40 different colours

Polyester powder coating - available in a standard range of over 200 RAL colours, including gloss, satin and matt finishes and an in house range of special colours.

Perforations & Embossing - Bailey has the expertise to tailor 3-dimensional patterns and punching effects on your eaves and façades systems to meet the requirements for each project.

The background image shows a large-scale construction project. Several tall, yellow lattice cranes are positioned against a clear blue sky. The structure being built appears to be a large, curved, metallic building, possibly a stadium or arena, with a complex network of cables and supports. The lighting suggests it's daytime, with shadows cast across the structure.

The range of profiles, finishes, metals and configurations that Bailey provide are numerous and can be bespoke to customer requirements, to seek your desired affect contact the Bailey Technical Team.

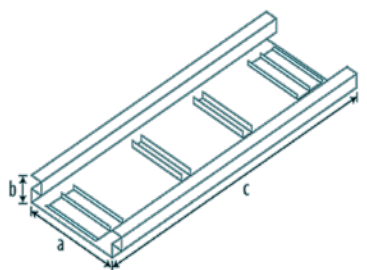
For maintenance, installation and drawings visit the website:
www.bailey-uk.com

APPLICATIONS

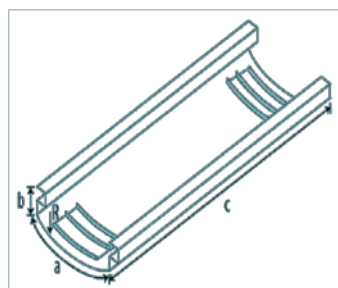
The Bailey Rainscreen cladding system creates a flat surface giving the specifier the opportunity to develop an aesthetically pleasing façade, whilst providing long term performance. A multi-layered Rainscreen cladding system will outperform alternative types of construction, at an economic whole life cost to the building owners.

Bailey Rainscreen cladding systems provide a low maintenance, sustainable external ventilated 'cold' façade which can be either flat, convex or concave in profile and available in a variety of horizontal and vertical joint arrangements.

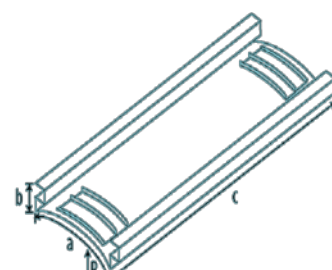
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- Panel designs easily integrate with building elements such as louvres, windows, doors and atriums to create a complete building façade
 - Variety of horizontal and vertical jointing arrangements available to achieve desired aesthetics
 - Shaped and curved to create unique details for capping, copings, bullnoses and fascias
 - Flexibility - system can be fixed to any primary construction providing it is a rigid structure
 - Fully adjustable support system and range of accessories available



Flat panel



Convex Panel



Concave Panel

Design Flexibility

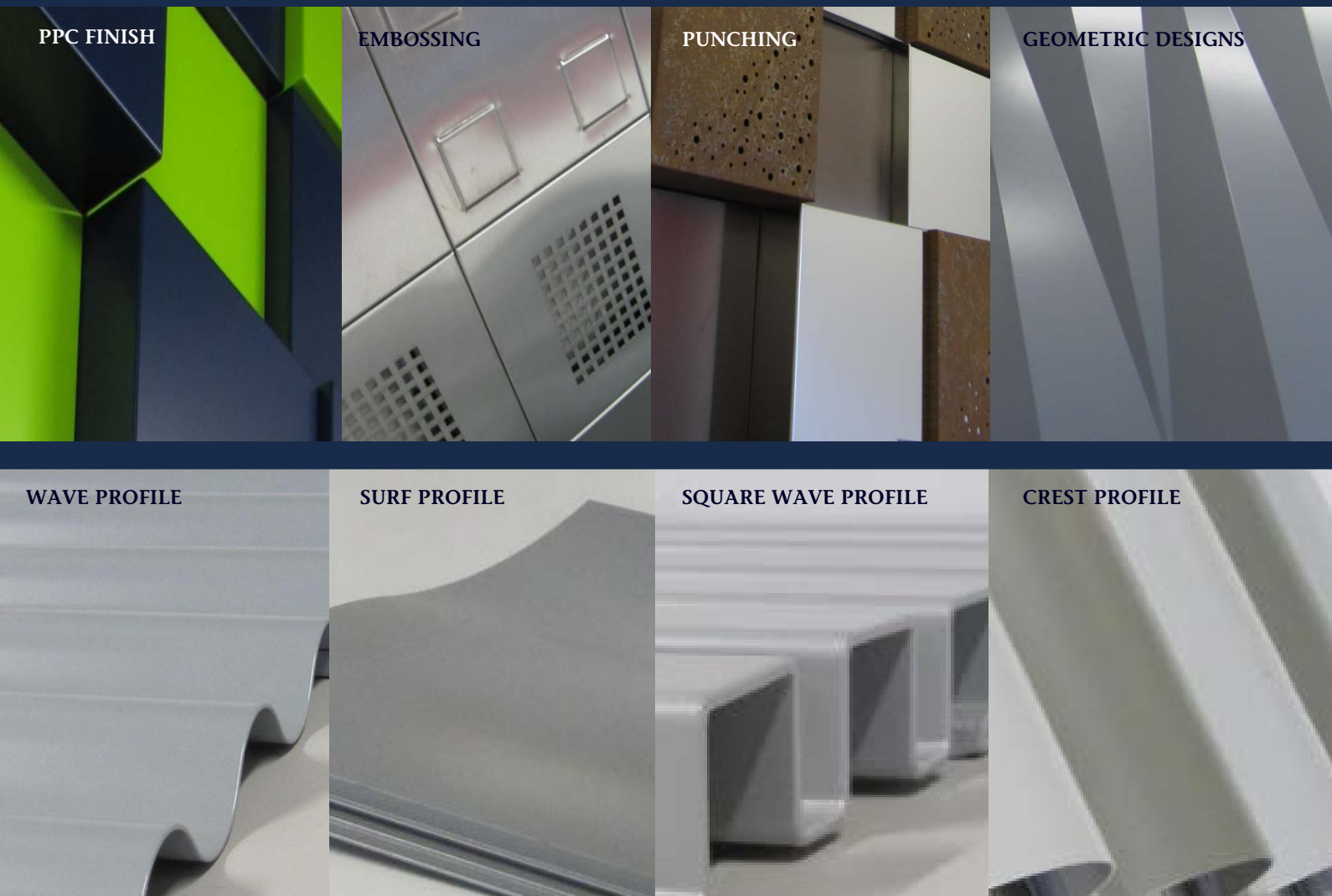


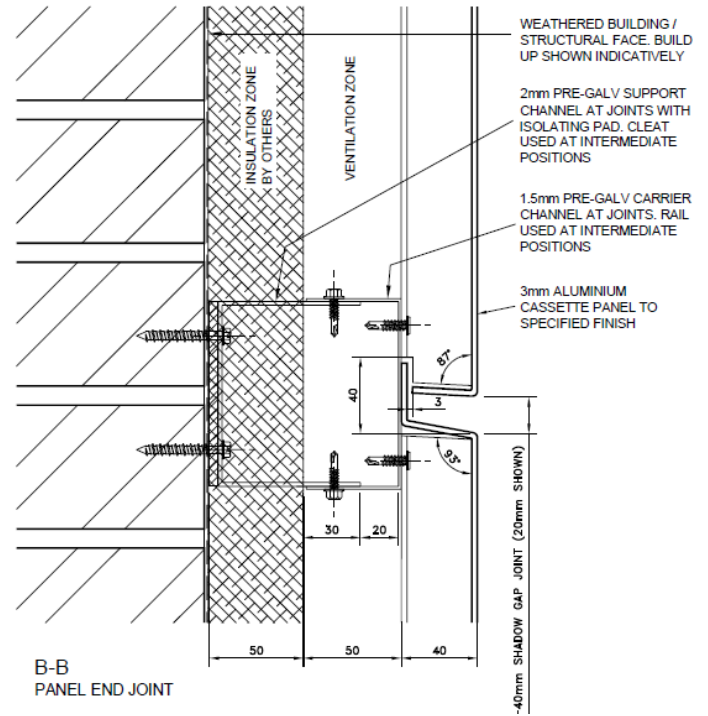
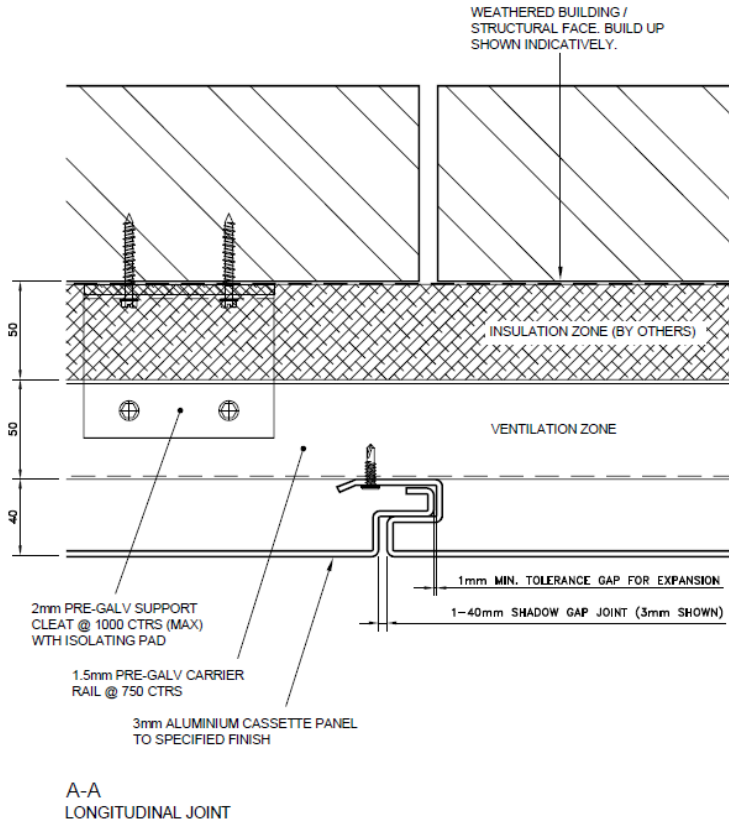
Curved facades and over cladded roofing systems can be achieved with Bailey Rainscreen cladding systems ensuring any specification criteria can be met.

DESIGN FLEXIBILITY

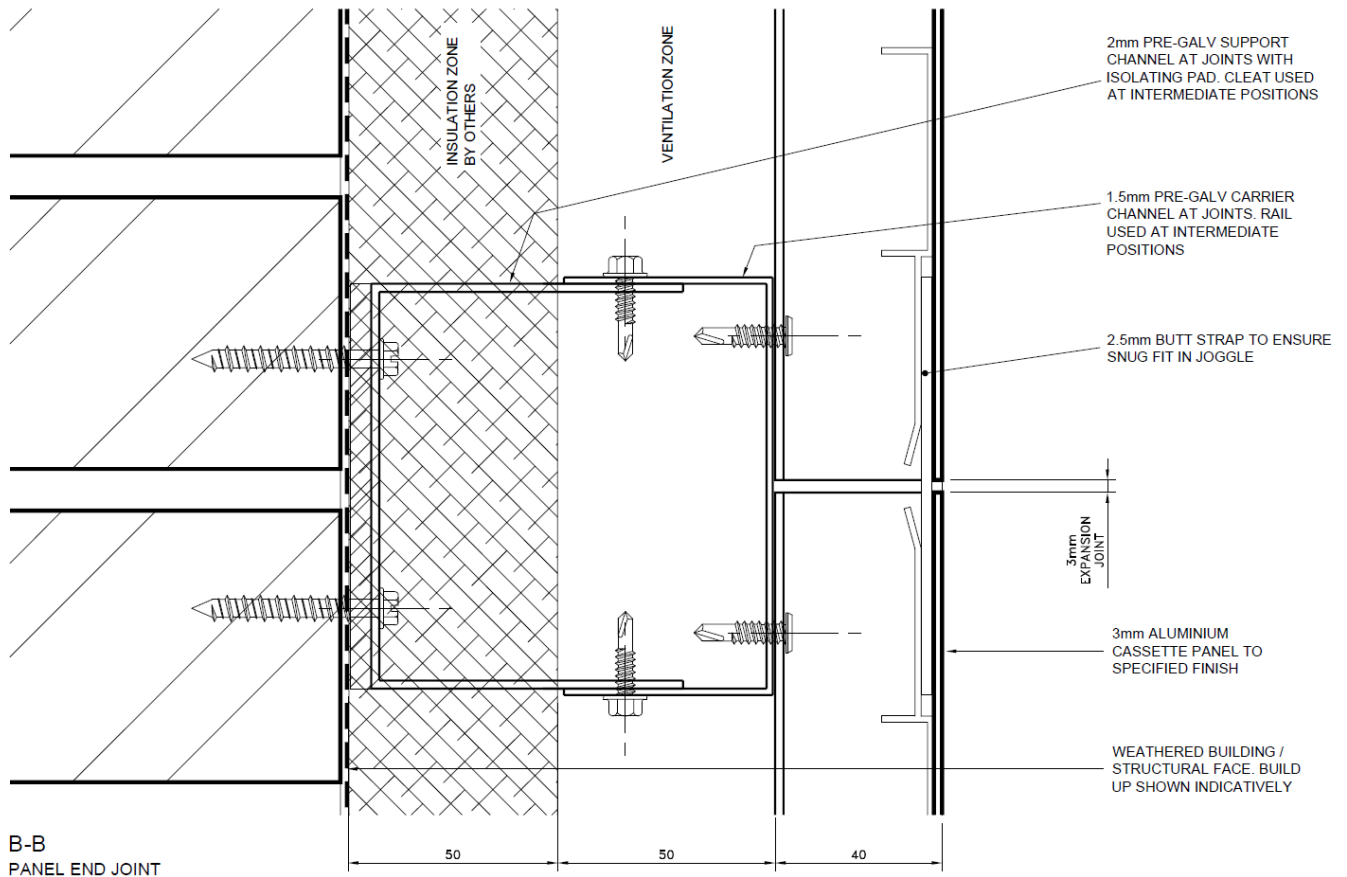
Bailey have the vision to turn every specification and design requirements into reality. Included in the Rainscreen cladding range are unique profiles and effects to help the specifier design a project which is aesthetically different. Included in the Bailey range are perforated panels as well as the new range of wave profiles.

Bailey work with the architect taking into consideration wind loading, cavity breaks, thermal performance and the interfaces between the roof, eaves and façade systems.

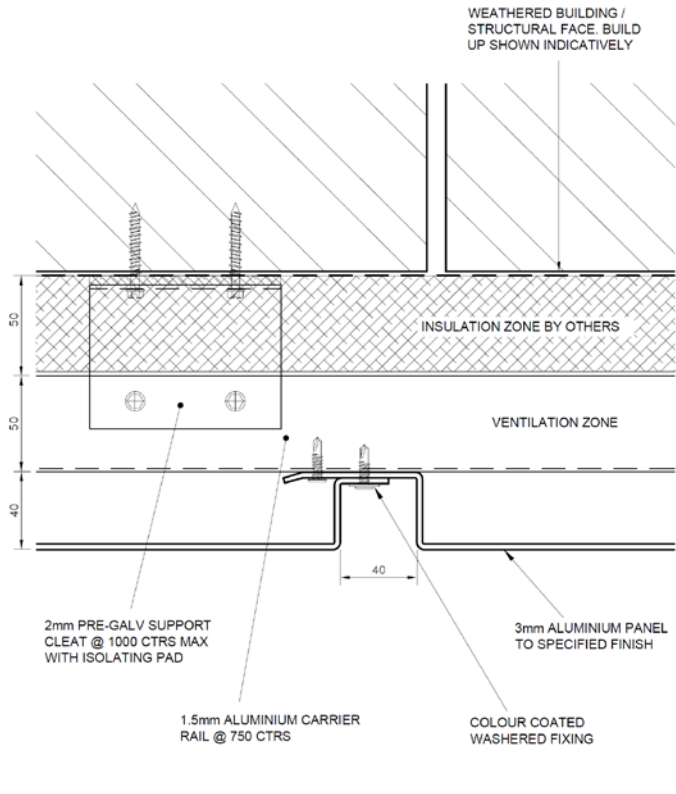




Platinum Modular System

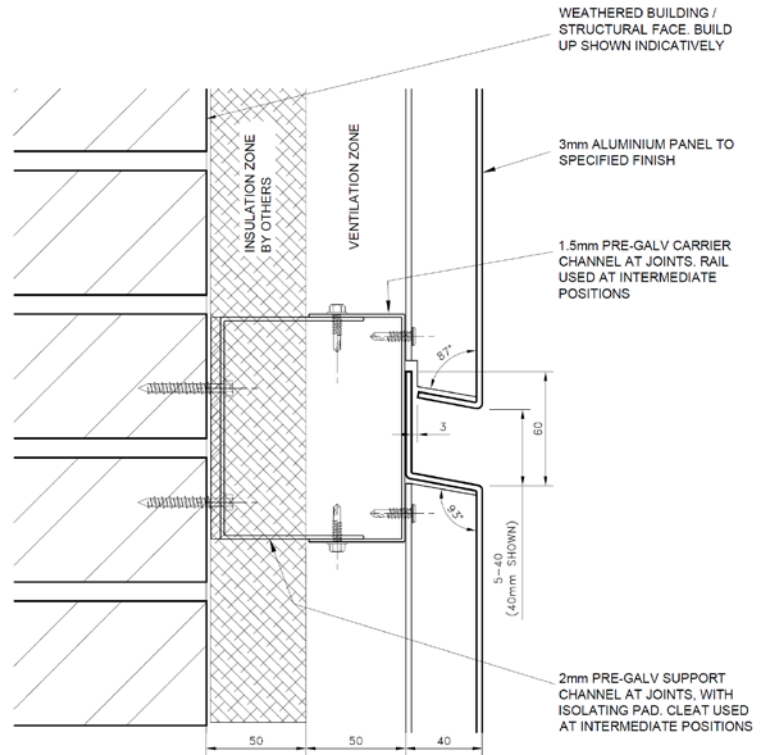


Platinum Linear System



A-A
LONGITUDINAL JOINT

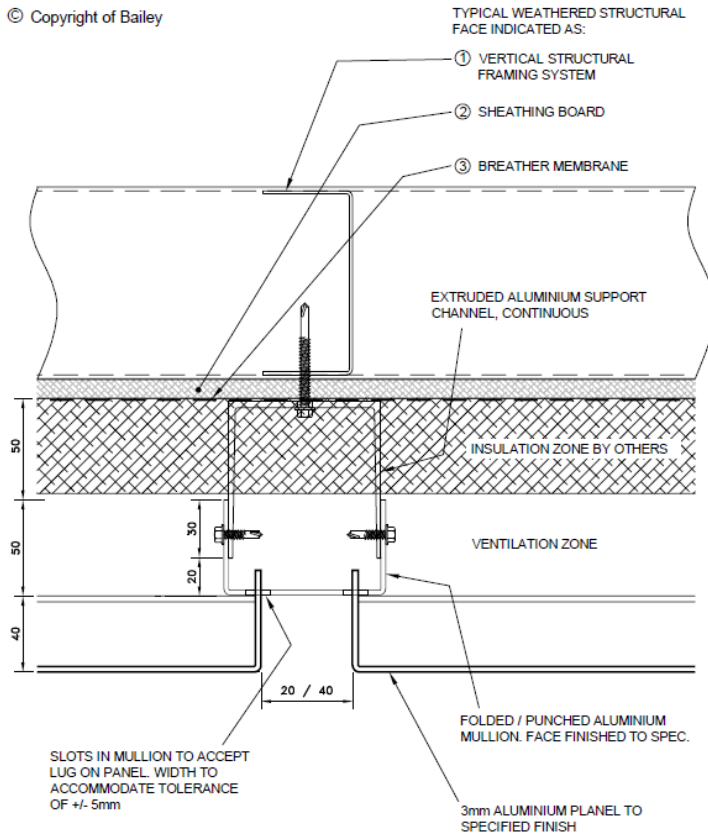
NOTE: FOR HORIZONTAL PANELS - JOINT DETAILS ARE OPPOSITE



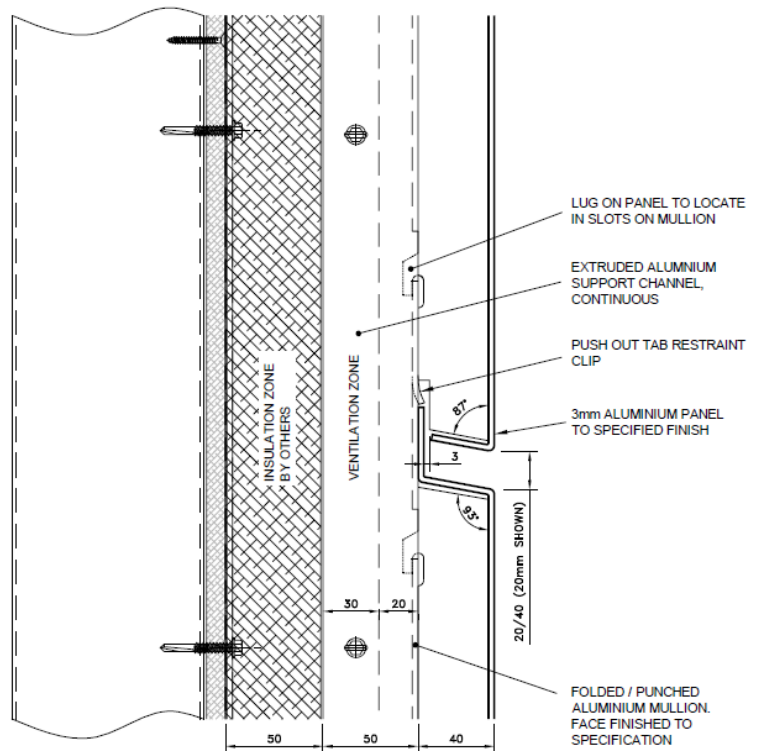
B-B
PANEL END JOINT

Prima Recessed Tray System

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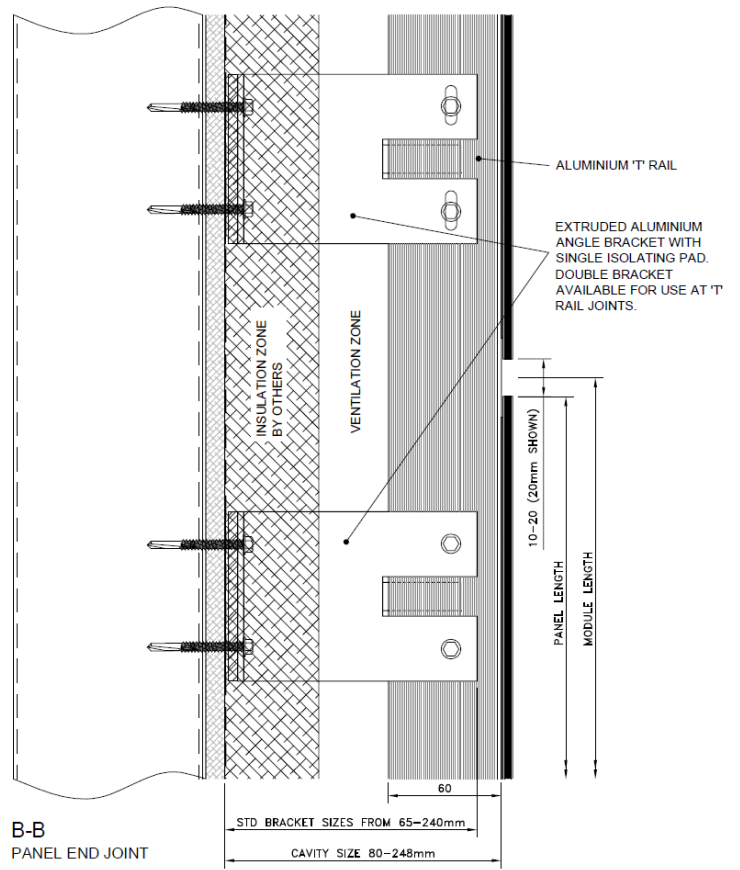
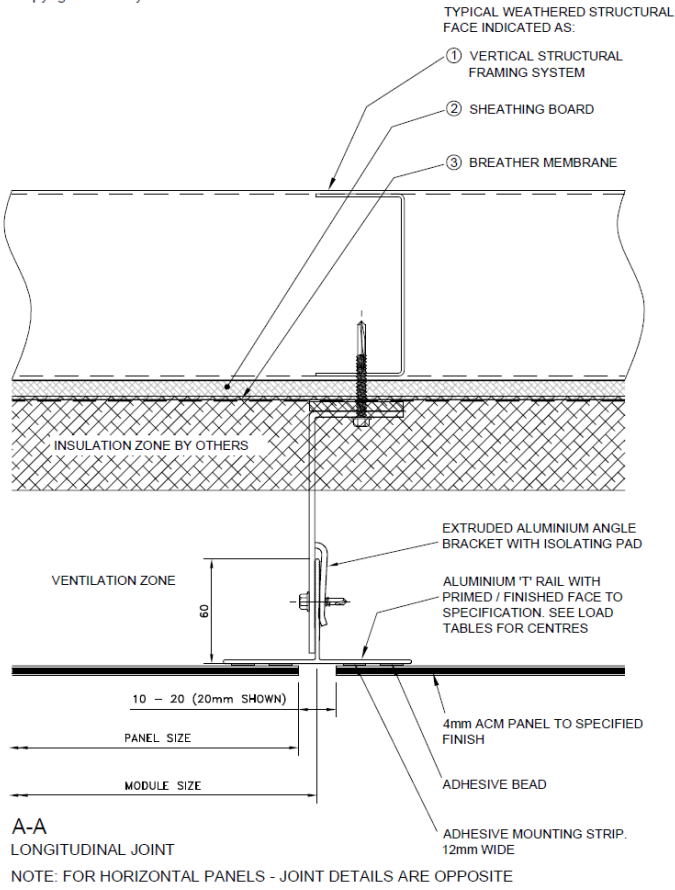


A-A
LONGITUDINAL JOINT

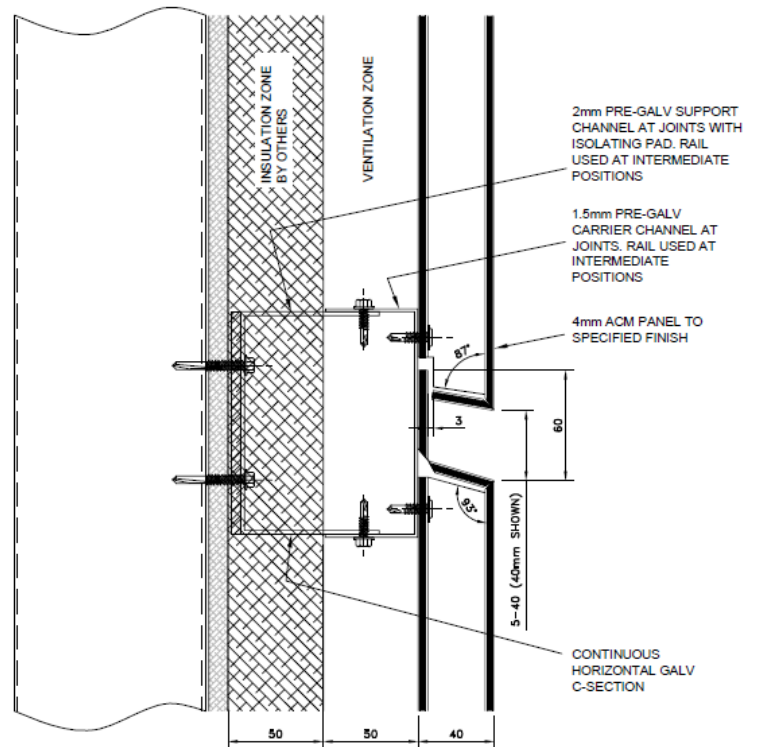
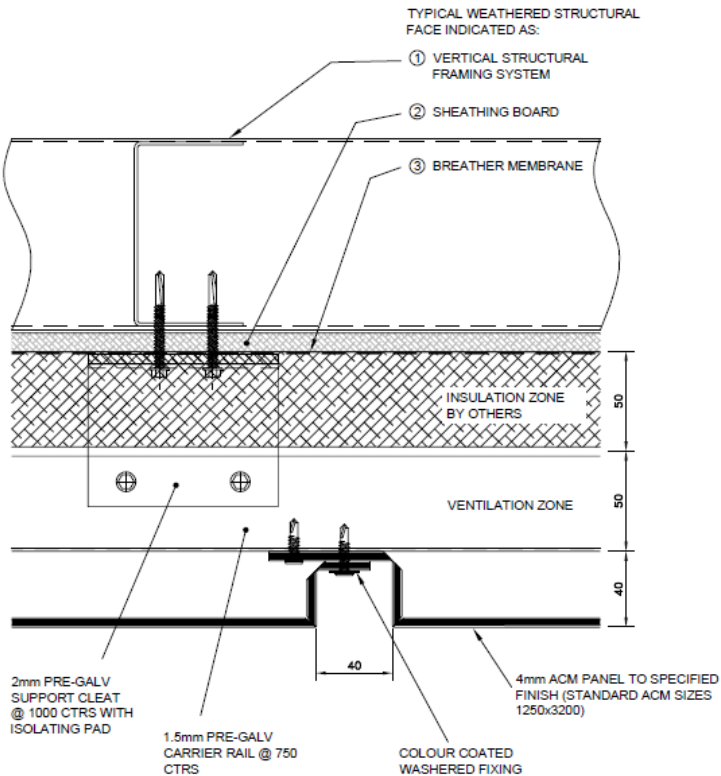


B-B
PANEL END JOINT

Synergy Hook On System



Zenith ACM/Bonded System



Summit ACM/Recess Fix System



SPECIFICATION

Bailey will provide technical assistance and will prepare specifications for both new and existing buildings. Below are some typical specification clauses which can be incorporated into NBS format documents.

110 BAILEY PLATINUM (LINEAR) ALUMINIUM RAINSCREEN CLADDING

Aluminium Rainscreen Cladding System creating continuous look

Single skin folded panel with lateral stiffeners attached to back of panel and correct metal gauge to suit panel width, ensuring flatness.

Interlocking cassette folds on two long sides with optional shadowline joint. Butt/strap joggle joint to two short sides with close-abutted cut edges.

Complete system includes Bailey Support Carcassing for suspension from primary building structure, ensuring correct alignment and adjustability.

Panels typically arranged in vertical direction with option for horizontal layout.

Supplied in 3 m long modules as standard. Maximum width is 0.6 m. Choice of special sizes, shapes, flat or curved section. For larger panel widths, consider using Bailey Platinum Modular System.

Powder coated finish with choice of colour. Applied in-house with thirty year guarantee available on application, subject to location.

Detail design service available from supplier. Installation by recommended subcontractors

MANUFACTURER

Bailey Total Building Envelope, Blatchford Close, Horsham, West Sussex, RH13 5RF

T: 01403 261844 E: sales@bailey-uk.com www.bailey-uk.com

DRAWING REFERENCE

Bailey RS – L02, L07, L08, D01 and D02

SYSTEM TYPE

Pressure equalised, back ventilated, open joint type

RAINSCREEN PANELS

Type: Platinum Linear cassette with folded interlocking joints to long edges and butt strap and joggle to short edges. Secret fixed along recessed long edge.

Material and Thickness: 3 mm Aluminium sheet to EN485/515/573.

Panel Thickness: 40mm joint depth

Panel Size: 3000mm module length X various widths up to 600mm maximum. (For larger panel widths use the Platinum Modular System)

Primary Support Structure

System is required to be fitted to a structural walling system designed to accommodate the expected site loading conditions. A full set of wind load and structural design calculations should be provided by the project team.

FINISH/COLOUR

NOTE: As standard, only visible faces are polyester powder coated. Some severe industrial or marine locations may require coating to reverse side of some components. Bailey Technical Department should be consulted in these situations.

Polyester powder coated to colour and gloss level selected from the Bailey standard range. Polyester powder coating is to be electrostatically applied at the manufacturer's in-house plant to conform to BS EN 12206:2004 Part 1 and Qualicoat Class 1 standards.

Pre-treatment of the aluminium is to produce no environmentally harmful effluent and conform to European standards (ECHA) which includes for a Chrome Free solution. Test samples are to be retained and results submitted to the architect if requested. Tests to be applied as a minimum are:

1000 hour salt spray test for chemical resistance.

Result: No blistering, softening or detachment of the coating.

Impact resistance test using 0.908kg weight from 0.25 high.

Result: No cracking or detachment of the coating.

Permeability test (2 hour pressure cooker).

Result: No blistering or detachment of the coating.

Adhesion test using 2mm cross hatch.

Result: No flaking or removal of the coating.

Flexibility test using 20mm mandrell.

Result: No cracking or detachment of the coating.

Cure test using MIBK solvent.

Result: No removal of the coating or significant softening of the film

Film thickness.

Result: Average minimum thickness to be 60 microns with no reading less than 50 microns.

Secondary Support Framing System

Bailey pregalvanised steel fixing cleats and carrier rails to create the insulation zone and ventilation gap to rear of panels. Refer to project drawings for frequency and spacing. All components to be fully adjustable to allow for tolerance in all directions.

Joint Type

1 – 40mm optional shadowline cassette joint on long edge of panel

3mm closed butt strap joint between cut edges on short edge of panel

Air Gap

Minimum 25mm between panel fixing zone and face of substrate/insulation

Accessories

Factory fabricated corner panels, trims to openings, louvers, doors, coping and any other components necessary for providing a fully interfaced installation.

Insulation

As specified and supplied by installing subcontractor to meet thermal requirements as laid down by the project team.

Design

The installing sub contractor, in conjunction with manufacturer is to provide a full design service. Full working drawings are to be submitted for architect's approval prior to manufacture. As a minimum, these should include:

a) Elevational views showing panel layouts with all joints, junctions etc. suitably indicated.

b) Cross section detail of typical panel configuration including method of support and fixings to be used. Each component to be part numbered and cross referenced between section drawings and elevational/layout drawings.


Packaging

All components are to be fully wrapped and protected. Bundles should be no larger than can be handled by one person to ensure transfer to point of installation in original packaging. In the case of large of heavy items, these should be clearly marked with the appropriate warning and approximate weight.

INSTALLATION

To be in accordance with the Bailey instructions:

For maintenance, installation and drawings visit the website:
www.bailey-uk.com



For the most up to date information on all Bailey's envelope solutions visit the website.

For maintenance, installation and drawings visit the website:
www.bailey-uk.com

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