SKYLINE
ARCHITECTURAL ALUMINIUM

ALUMASC
WATER MANAGEMENT SOLUTIONS

Skyline Rainscreen Cladding

About Skyline Architectural Aluminium

Alumasc Skyline is a leading manufacturer of architectural aluminium products from fascia, soffit and coping, through to rainscreen cladding, window surrounds, column casings and door canopies.

With over 30 years in the industry, our products are widely recognised by architects, specifiers, contractors and developers. Skyline Rainscreen Cladding is produced to exceptionally high standards, and features a Qualicoat powder-coated finish, with the enhanced Qualicoat Seaside specification available for demanding marine environments.

Our aim is to focus on high-quality, environmentally responsible building products within the construction industry in order to deliver first-class customer service, technical support, long-term solutions and lasting relationships.

Skyline Architectural Aluminium is the result of years of experience, technical expertise and ongoing product innovation.

Skyline today offers a complete collection of unparalleled aluminium design solutions to meet every requirement — from typical to fully bespoke design solutions backed by support from our experienced, dedicated technical teams.

Our objective is to give designers the ultimate freedom to push their creativity to the limit. To create solutions of aesthetic merit, high performance and low maintenance, which promote sustainability and provide whole-life cost benefits in combination with stylish and innovative visual design.

Alumasc Skyline is part of the AWMS family

Alumasc (AWMS) is a UK-based supplier of premium building products. The majority of the group's business is focussed on sustainable building products that enable customers to manage energy and water use in the built environment.

They include: **Skyline** Architectural Aluminium; **Alumasc Rainwater** Gutters & Downpipes; **Harmer** Building Drainage; **Wade** Building Drainage and **Gatic Drainage & Engineered Access Covers.**

Contents

Skyline Introduction

Skyline Architectural Aluminium is an innovative concept in the construction marketplace: an integrated collection of unparalleled design solutions for the building roofline, envelope and critical junctions in the building structure.

Skyline Soffit Panels
Wimbledon Centre Court

"A brand synonymous with excellence in design solutions at the crucial interface between the roofline and facade"

Skyline Architectural Aluminium is the result of years of experience, technical expertise and continuous product innovation.

Skyline aluminium fabrications are manufactured by Alumasc exclusively in the UK, and delivered fully finished to site ready for installation. Our experienced technical teams are always available to provide advice and support.

Our objective with Skyline Architectural Aluminium is to stimulate architects to push their creativity to the limit with designs of aesthetic merit, high performance and low maintenance. Promotion of sustainability is central in the Skyline ethos of providing whole-life cost benefits. High performance and sustainability go hand-in-hand with low-maintenance aluminium manufactured from materials that are 100% recyclable.
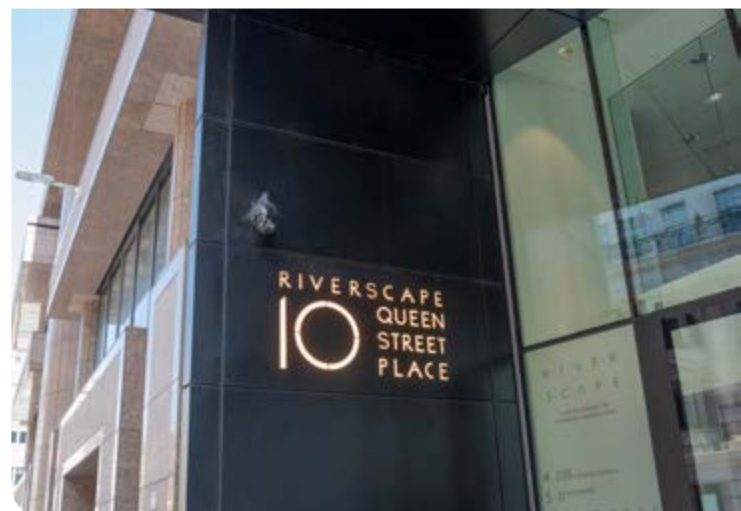
Skyline Architectural Aluminium embodies integrated design solutions that are relevant to all aspects of the aesthetic and functional performance of buildings. Alumasc has a long pedigree of over 50 years of industry experience and product development, working with architects to create some of the most ambitious and prestigious projects in the UK.

Continuing research and development has seen our product offering develop and expand to meet the needs of modern construction projects. We were early leaders in recognising the potential of aluminium in building and of the innovative role this versatile material can play. From a core, trusted range of Skyline Fascia, Soffits and Copings, Skyline Architectural Aluminium has evolved to also include Skyline Rainscreen Cladding, Window Surrounds, Door Canopies, Anti-Climb Barriers, Column Casings and Architectural Planters.

Alumasc is now the leading UK supplier of architectural aluminium fabrications, which are delivered to site ready for installation.

The benefits of Skyline Architectural Aluminium solutions include functionality combined with aesthetic quality, colour coordination and bespoke manufacture. There are no limits to the size and type of project undertaken, and we offer full guidance to professional installers.

Skyline Architectural Aluminium - Range Overview

The connection between roof and walls at the eaves is one of the most crucial facets of building design — both functionally and aesthetically. Skyline Architectural Aluminium offers vibrant and dramatic engineered solutions at this critical interface, perfectly suited to a wide range of building types across the private residential, commercial, and public sectors.

Standard Fascia
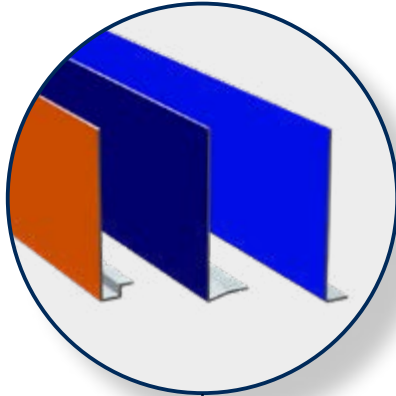
Designer Fascia
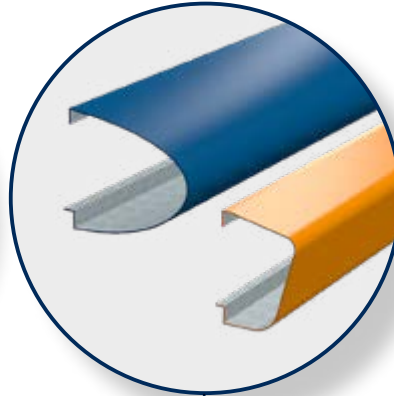
Anti-Climb Barrier

Architectural Planters

Soffits

Flat & Sloping Coping

Rainscreen Cladding
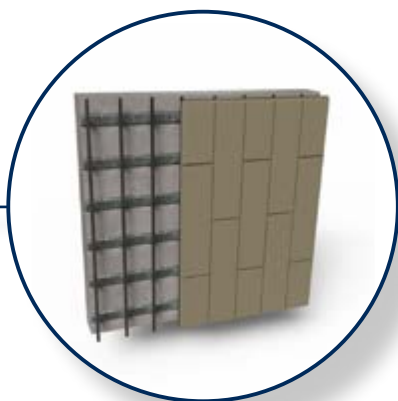
Column Casings

Window Surrounds & Cills

Door Canopies
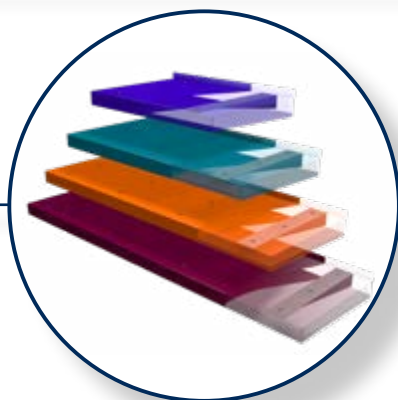
Fully Integrated Solutions

Our technical solutions-based philosophy provides the basis for a virtually unlimited range of choice through an offer that can be applied with total flexibility — from simple standard solutions to fully bespoke unique specification and manufacture.
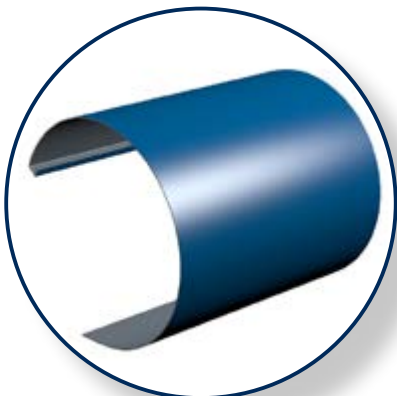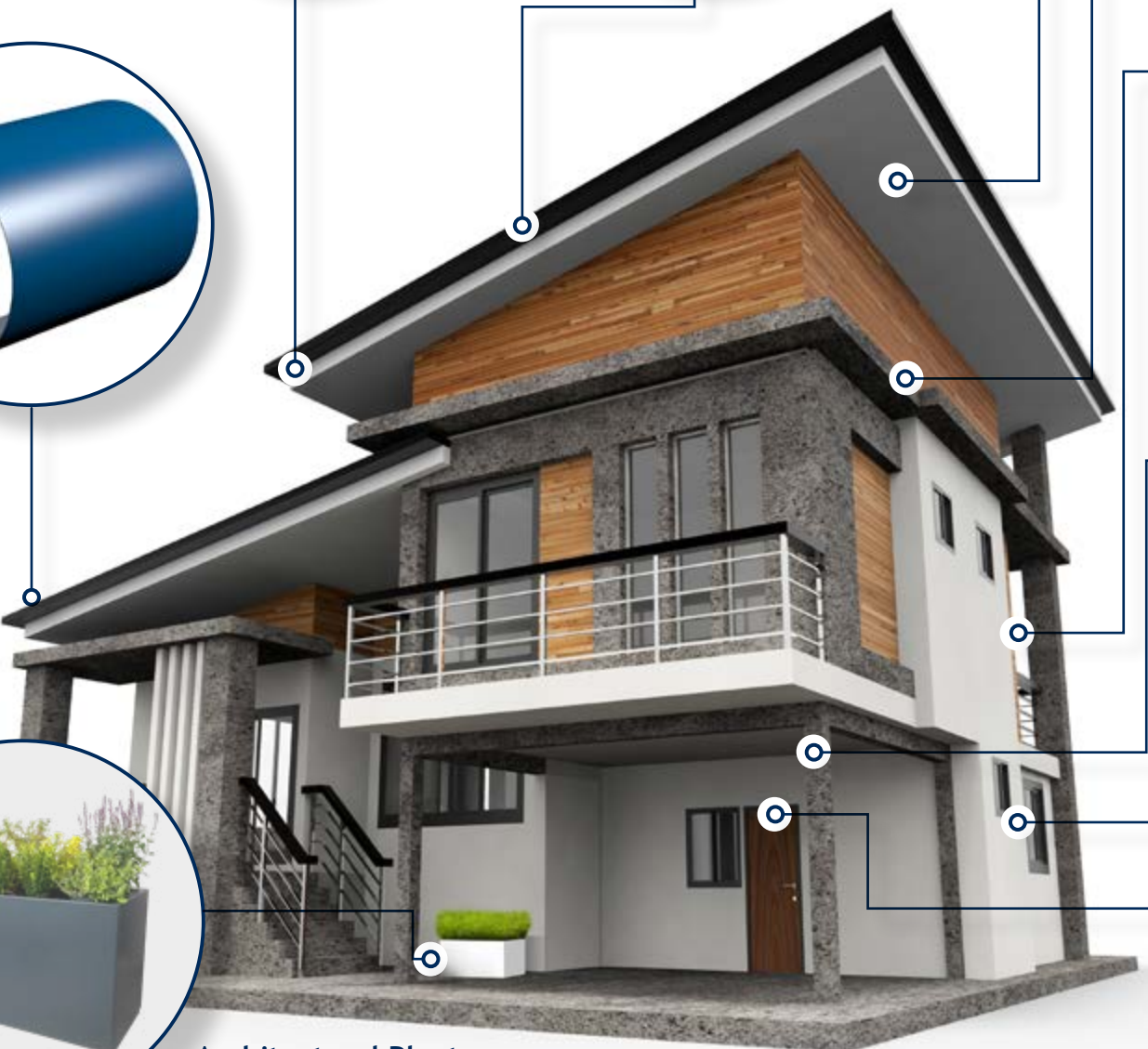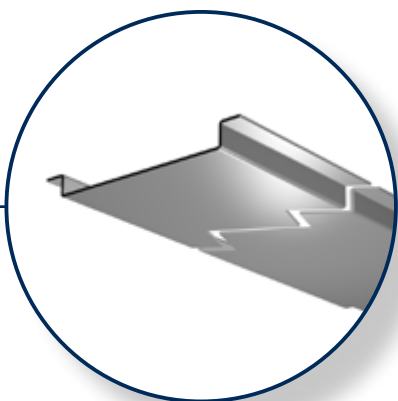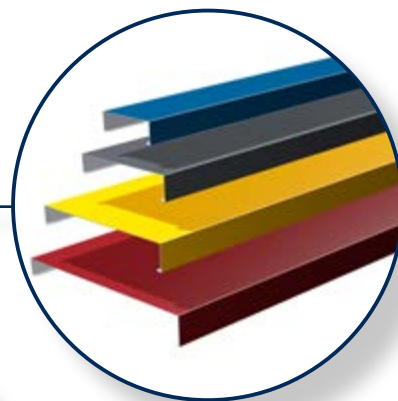
The ultimate in flexibility and innovation

Alumasc's pre-eminent fabrication capabilities make possible a virtually unlimited range of dramatic engineered solutions at the all-important interface between roof and façade.

The extended range of Skyline Architectural Aluminium Systems embodies design synergies and solutions that can be combined and configured in a vast number of different ways. The purpose being to meet every design challenge, large or small, at the interface between walls and roof, enhancing the performance of the building envelope and the effective separation of the building interior and exterior. Skyline Architectural Aluminium gives designers total creative freedom. We can transform innovative design concepts into manufactured reality, delivered to site.

Skyline Architectural Aluminium offers an outstanding combination of aesthetic possibilities and practical durability, whether it be on new build or modernisation/refurbishment projects.

For quality, appearance and longevity, our factory-finished polyester powder coatings are vastly superior to any site applied finish.

Skyline Architectural Aluminium
From concept to reality

Transforming an idea into reality may sound like a fanciful claim; but that is exactly what Skyline Architectural Aluminium enables designers to achieve. Any roofline design concept formulated in the mind of the designer can can be realised through Alumasc's manufacturing capability. From a designer's brilliant ideas and sketches, we can create a perfect manufactured solution to meet a client brief across any construction sector.

Our expert technical teams will liaise closely with client and architect to manufacture a solution in Skyline Architectural Aluminium, bringing their ideas to life in terms of aesthetics, sustainability and lifetime performance.

Our technical solutions-based philosophy provides the basis for extensive choice through an offer that can be applied with great flexibility across all sectors of construction.

Residential
Aluminium is a perfect choice for housebuilding; it is visually attractive and trouble-free as a highly durable material of great longevity. From a contracting standpoint, Skyline Architectural Aluminium fabrications are straightforward to install and require no on-site finishing.

Commercial
Skyline Architectural Aluminium is ideal for the commercial sector in many ways. It offers an excellent combination of visual appeal, durability and longevity.

Good visual appearance is an important customer confidence booster, while the high-performing technical qualities of aluminium bring reliability and long-term cost effectiveness to commercial building projects.

Healthcare & Public Sector
Skyline offers fully integrated solutions for the entire public sector, from large urban hospital complexes and nursing homes, to schools and university campuses.

Aluminium is a high-performing and hygienic material that does not degrade, deteriorate or attract pests. It is therefore ideal in settings where hygiene is important, and where patient and student welfare are key considerations.

Industrial & Security
The qualities of aluminium can bring significant benefits to the industrial and security sector, particularly in terms of durability and minimal maintenance.

Skyline Architectural Aluminium has a track record in delivering products to high-security areas such as airports, border control and prisons. Pre-finished fabrications, durability and longevity mark Skyline as a practical and cost effective solution within industrial and security projects.

Infrastructure
Skyline Architectural Aluminium embodies an extensive portfolio of integrated product solutions well suited to the infrastructure sector, ranging from large transport hubs such as ports and air terminals, to utilities and energy.

Aluminium performs extremely well, even in aggressive and marine environments, which brings functional and whole-life cost effectiveness.

Quality & Sustainability

In addition to complying with environmental legislation, Alumasc is committed to developing its own measures to limit the adverse effects of its activities on the environment. To this end, Alumasc operates an environmental policy that fully integrates all aspects of company activities.

Quality
ISO 9001: 2015

Alumasc operates a quality management system which is independently audited to ISO 9001: 2015. The ISO 9001 framework governs the management of many aspects of Alumasc support services, manufacturing and transport operations. Alumasc extends quality management to its network of approved installers for single source accountability and peace of mind.

Sustainability

Alumasc actively pursues sustainability in its full range of products, and alongside it's partners and suppliers, is committed to putting consideration for the built and wider environment at the core of all aspects of current business and future development.

ISO 14001: 2015

Alumasc's manufacturing sites at St Helens, Merseyside and at Burton Latimer, Northamptonshire are audited to the ISO 14001:2015 Environmental Management Standard. Alumasc is committed to achieving improvements across all of its operating sites, not only in consideration for the local surroundings of its manufacturing plants, but also the responsible sourcing of raw materials and monitoring of the impact on the environment as a whole.

BREEAM Standards

BREEAM points, as a framework for analysis and scoring, allow easy comparison of the relative merits of different construction types, and also comparisons between different construction product groups. The BREEAM points system promotes the use of materials with a proven sustainable message, and also allows designers to differentiate between products with true ecological credentials and those not achieving the benchmark.

Indicative ratings for building materials given in the BRE Green Guide to Specification also allow designers to choose the products or construction methods that will be most beneficial in contributing to a high BREEAM points score.

Aluminium rainwater goods and fascia soffit systems are part of the range of high-scoring Alumasc solutions. Promotion of these responsibly sourced materials brings clarity to the specification process, thus achieving the desired effect of minimising the environmental impact of the construction process.

Testing and Certification

Applicable Standards

CWCT - Test Report No. R4791722003
Standard for systemised building envelopes - 2005

BS EN 755
Aluminium and aluminium alloys. – Extruded rod/bar, tube and profiles.

BS EN 4851/1/2/4
Aluminium and aluminium alloys. Sheet, strip and plate.

BS EN 515
Aluminium and aluminium alloys. Wrought products.

BS EN 573
Aluminium and aluminium alloys. Chemical composition and form of wrought products. Chemical composition and form of products.

BS EN 1706:2010
Aluminium and aluminium alloys. Castings. Chemical composition and mechanical properties.

BS EN 1559
Founding. Technical conditions of delivery.

BS EN 1462:2004
Brackets for eaves gutters. Requirements and testing.

BS EN 12206-1:2004
Paints and varnishes. Coating of aluminium and aluminium alloys for architectural purposes.

RIBA Assessed CPD Seminar
Architectural Aluminium – A Complete Guide to Design & Specification

Aluminium - A Unique Material

The unique properties of aluminium make it the ideal material for creating high-performance architectural roofing details of all designs and styles.

Alumasc is the UK's premier manufacturer of architectural aluminium products across a wide range of applications. These include rainwater systems, fascias and soffits, copings, window surrounds and many other bespoke manufactured products in aluminium, which exploit the technology of this unique material in construction.

Innovative

Aluminium is a young material, but has become the world's second most-used metal after steel. It is known as 'the magic metal' because of its unique physical, chemical and mechanical properties, which make it ideal for use in architectural applications.

Design Flexibility

Aluminium can be formed in various ways to fulfil different functional purposes and create different visual effects. This allows great scope in the formation of architectural details, with appearance ranging from traditional to minimalist modern.

Lightweight

The lightweight characteristics of aluminium fabrications make them economical and easy to transport. Consequently, handling is easier and installation faster, with resultant cost effectiveness.

Ecological Benefits

Skyline Architectural Aluminium contains no toxic substances, and performs excellently when assessed from cradle to grave for effects on water quality (eutrophication), and water and ground contamination (ecotoxicity).

A 'Green Material'

To be deemed 'green', a material or product should be recyclable, sustainable and versatile. Aluminium has all these properties, and its production is strictly monitored for responsible sourcing of raw materials.

Historically, aluminium has proven to be one of the most important materials in successful recycling programmes. It has a high scrap value, widespread consumer acceptance, and enjoys significant industry support.

Most aluminium products are made from 100% recycled scrap. The recycling process does not result in any loss of the basic qualities and properties of constituent materials. Recycled aluminium offers significant energy benefits as remelting used aluminium requires only 5% of the energy needed to produce primary metal. As aluminium can be recycled indefinitely it need never be disposed of in landfill.

Life Expectancy

Skyline aluminium fabrications have a life expectancy in excess of 40 years in rural and suburban areas, and up to 25 years in industrial and/or marine conditions. This greatly enhances the product's cradle-to-grave embodied energy figure compared to systems with shorter life spans (e.g., plastic). This also results in the removal of the appreciable costs, both environmental and monetary, of product replacement.

Low Maintenance

In service, Skyline Architectural Aluminium is virtually maintenance free. Apart from routine cleaning for visual reasons and special consideration for coastal areas, aluminium does not require any maintenance, thereby providing a cost benefit over its lifetime.

Choice of Finish

Skyline Architectural Aluminium offers a huge range of visual choice. The material's natural protective coating of aluminium oxide gives a soft, natural finish, whilst an eye-catching choice of colours is available from Alumasc's BBA certificated Raincote range of powder coatings.

Colours

Colour can play a vital role in architecture, which makes Skyline Architectural Aluminium Rainscreen Cladding a trusted material of choice for architects and designers wishing to explore all possibilities of colour and finish in modern building.

Following extensive research and development, Alumasc's powder coating capabilities create a perfect and consistent factory finish to all Skyline manufactured goods. Skyline solutions can make bold visual colour statements or blend sympathetically with other features of a building, creating design of individuality and quality that will stand the test of time.

Rainscreen Cladding products are available in plain mill finish or polyester powder coated with Qualicoat or Qualicoat Seaside for more demanding marine environments.

Standard Colours

The standard aluminium RAL colour range includes a choice of 27 colours in smooth finish. We can offer any additional BS or RAL colour to order, including anodic colours and stone effect finishes. Colours are produced with a 30% gloss unless otherwise stated.

RAL 1013M Pearl White Matt	RAL 1035MET Pearl Beige Metallic	RAL 3012M Beige Red Matt	RAL 6005M Moss Green Matt
RAL 7002M Olive Grey Matt	RAL 7004M Signal Grey Matt	RAL 7005M Mouse Grey Matt	RAL 7006M Beige Grey Matt
RAL 7012M Basalt Grey Matt	RAL 7015M Slate Grey Matt	RAL 7016M Anthracite Grey Matt	RAL 7021M Black Grey Matt
RAL 7022M Umbra Grey Matt	RAL 7024M Graphite Grey Matt	RAL 7032M Pebble Grey Matt	RAL 7035M Light Grey Matt
RAL 7037M Dusty Grey Matt*	RAL 7038M Agate Grey Matt	RAL 7040M Window Grey Matt	RAL 8014M Sepia Brown Matt
RAL 8017M Chocolate Brown Matt	RAL 8019M Grey Brown Matt	RAL 9005M Jet Black Matt	RAL 9006M Metallic Silver Matt
RAL 9010M Pure White Matt	RAL 9016M Traffic White Matt	RAL 9017M Black Matt (60% Gloss)	

Colours are reproduced for general guidance only. For exact colour and finish references, please contact Alumasc for colour swatch samples and for further information.

> **"** *We can match any BS or RAL colour of your choice, including anodic colours and stone effect finishes.* **"**

Quality Assurance

The standard aluminium RAL colour range includes a choice of 27 colours. Qualicoat finishes deliver a durable, high-quality powder coating, while Qualicoat Seaside provides an enhanced level of protection specifically engineered for harsh marine environments.

Skyline Rainscreen Cladding offers a sleek, modern solution for exterior façades, combining durability with aesthetic appeal. Designed for ease of installation and long-term performance, it provides effective weather protection while enhancing the architectural character of any building. Available in a range of finishes and colours, Skyline delivers both functionality and style for contemporary construction projects.

Secret Fix (RSF9)
Panel Profile

Cassette (RCA9)
Panel Profile

Standard Profiles

Both secret fix and cassette rainscreen cladding panels offer a perfect blend of style and performance, delivering a clean, contemporary finish that elevates any building design. Engineered for durability and weather resistance, these systems ensure long-lasting protection while reducing maintenance costs. With efficient installation and versatile design options, they provide an ideal solution for projects that demand quality, speed, and aesthetic excellence. The below range summaries should hopefully aid the decision as to what panels are correct for your project.

Secret Fix (RSF9)
See page 18

- Sleek, versatile aluminium Secret Fix Panels for modern façade design.

- Engineered for vertical or horizontal installation with a flawless finish.

- Discreet shadowgaps: 4mm on shorter edges, 10mm on longer edges, with no visible fixings.

- Customisable face widths from 300mm to 700mm.

- Combines performance, precision, and design freedom for creative possibilities.

- Ideal for ambitious rainscreen cladding projects seeking bold or elegant aesthetics.

Cassette (RCA9)
See page 34
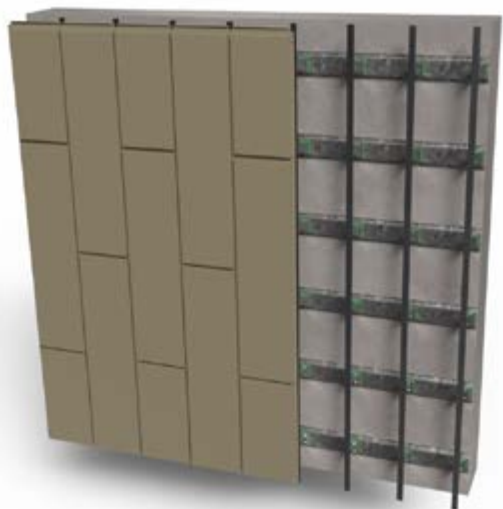
- Precision-engineered aluminium Cassette Panels for a striking, contemporary façade.

- Overlapping joint system with a bold 25mm shadow gap and discreet colour-coded fixings.

- Seamless integration and effortless installation for clean architectural lines.

- Customisable face widths from 250mm to 750mm.

- Combine various panel sizes for striking visuals.

- Ideal for projects demanding longevity, minimal maintenance, and uncompromising style.

Secret Fix Panels

Elevate Your Façade Design with Aluminium Secret Fix Panels

Transform your building's exterior with our sleek, versatile Secret Fix Panels — engineered for both vertical and horizontal installation. Designed to deliver a flawless finish, these panels feature a discreet 4mm shadow gap on shorter edges and 10mm shadow gap on longer edges, with no visible fixings, ensuring a clean, modern aesthetic.

Available in face widths from 300mm to 700mm, and fully customisable in colour and size, this system unlocks endless creative possibilities. Whether you're aiming for bold architectural statements or subtle elegance, our rainscreen cladding solution combines performance, precision, and design freedom — perfect for ambitious façade projects that demand excellence.
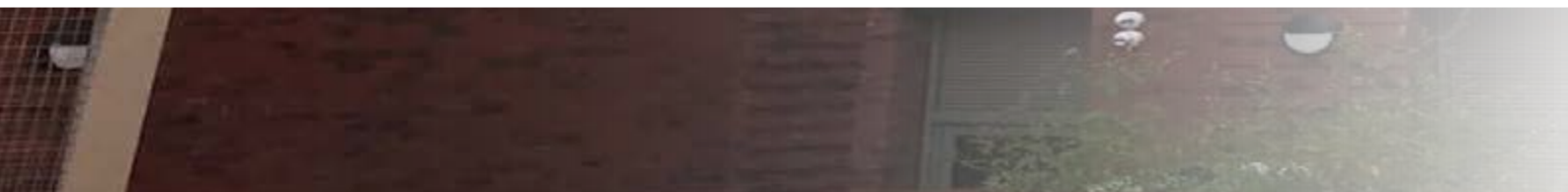
Applications

- Secret fix panels feature an interlocking panel design
- 4mm shadow gap on shorter edges
- 10mm shadow gap on longer edges
- No visible fixings
- Compatible with other Skyline ranges including fascia, soffit, coping, window surrounds and door canopies
- Fabricated fittings are mitred, welded and have a smooth uniform finish
- Can be installed in vertical or horizontal orientation

Features & Performance

- CWCT approved with rigorous testing completed on watertightness, air permeability, wind resistance and impact resistance
- Aluminium as a material when powder coated is fire rated A2-s1,d0 in accordance with BS EN 13501-1:2018
- ISO 14001 sustainability accreditation
- Entirely weatherproof and designed for rainscreen cladding applications
- Minimal maintenance required
- Life expectancy of aluminium: 40 years (rural/suburban areas); up
- to 25 years (industrial/marine areas)
- Aluminium is 100% recyclable
- Easy to handle

Manufacture

- Manufactured entirely in the UK out of 3mm-thick aluminium
- ISO 9001 quality accreditation

Colours & Finishes

- Qualicoat certified polyester powder coatings in 27 factory applied colours
- Polyester powder-coated finishes are effective in extending the life of architectural aluminium on buildings
- Any BS or RAL colour available to order

Installation & Fixing

- Panels are generally installed from top to bottom and left to right
- The fixings for each panel are covered by the subsequent panel
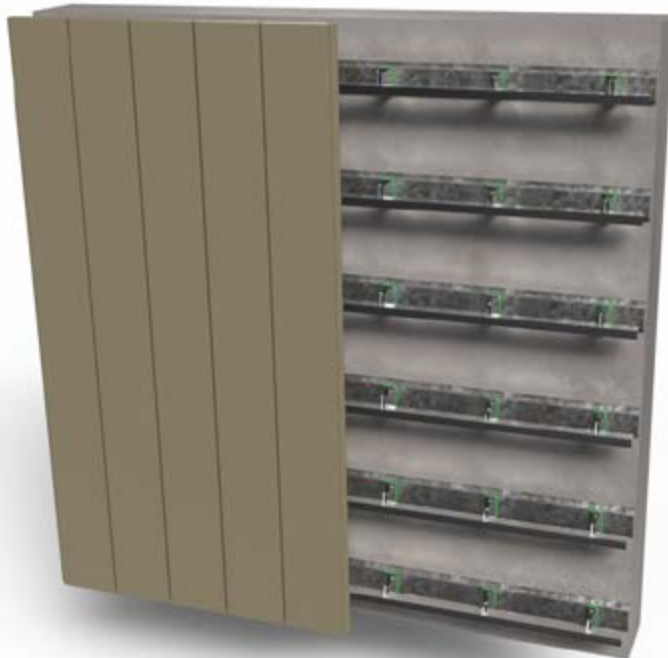
Bracketry, Rails & Fixings
See pages 24-29

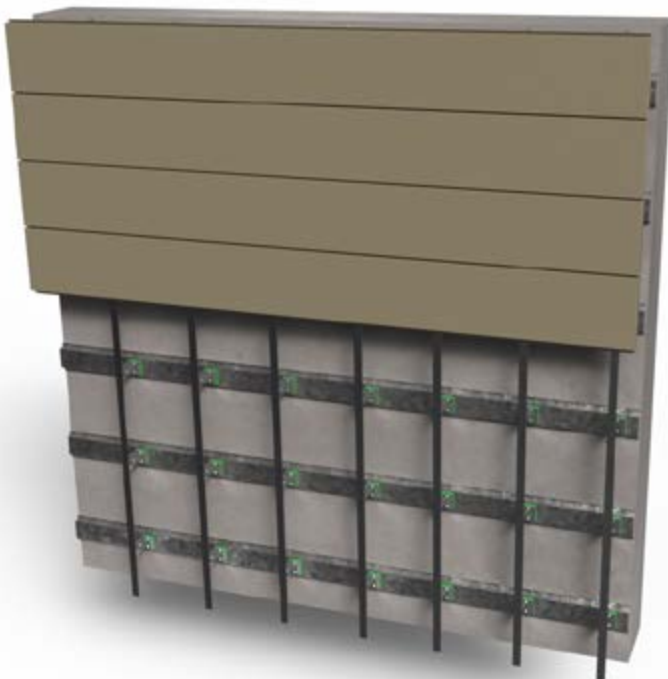## Installation Guidance
See pages 30-33

RSF9 Secret Fix Panel Dimensions

Vertical Cladding Orientation

Horizontal Cladding Orientation

Product Notes

- Length refers to the face length not including additional folds for connection
- 4mm shadow gap on shorter edges
- 10mm shadow gap on longer edges
- No visible fixings
- Window trims are available
- Compatible with Skyline Window Surrounds, Fasica, Soffit and Coping systems
- When specifying and ordering please specify RAL colour (see page 14)
- Various panel sizes and colours can be combined to create endless design options
- Vertical panel installation requires our horizontal bracket and rail system
- Horizontal panel installation requires our vertical bracket and rail system

How to choose your panel size:
1. Measure the width of the facade where the panels will be installed
2. If corners are required allow for these first, maximum face width for corners is 300mm on either face
3. Allow 4mm expansion gap between panels on the shorter edge and 10mm on the longer edge where they interlock
4. Determine the size and number of panels required between the corners
5. Panel sizes vary with face widths between 200mm and 700mm

Panel Length Dimension Table:

Face Width (mm)	Code Prefix
200-300	RSF9/300
301-400	RSF9/400
401-500	RSF9/500
501-600	RSF9/600
601-700	RSF9/700
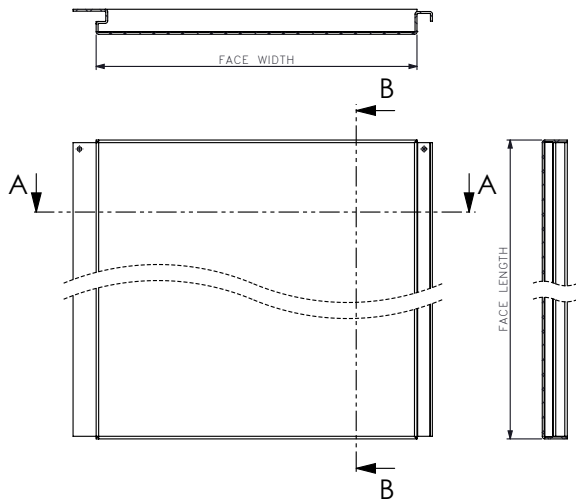
Panel Lengths

Min Face (mm)	Max Face (mm)	Length (mm)	Material Thickness	Suffix
200	700	3000	3 mm	/3MPQC
200	700	2750	3 mm	/2.75MPQC
200	700	2500	3 mm	/2.5MPQC
200	700	2250	3 mm	/2.25MPQC
200	700	2000	3 mm	/2MPQC
200	700	1750	3 mm	/1.75MPQC
200	700	1500	3 mm	/1.5MPQC
200	700	1250	3 mm	/1.25MPQC
200	700	1000	3 mm	/1MPQC
200	700	750	3 mm	/0.75MPQC
200	700	500	3 mm	/0.5MPQC

External Corners

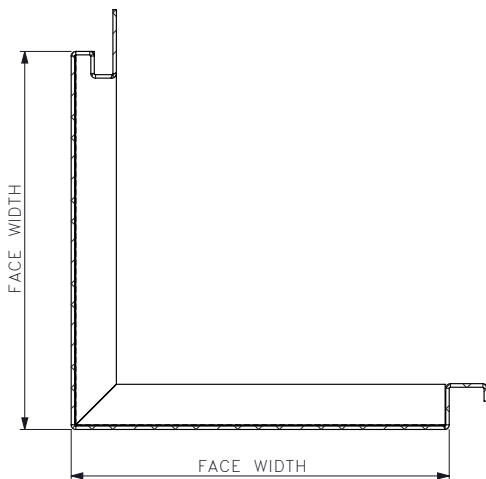| Min Face (mm)	Max Face (mm)	Length (mm)	Material Thickness	Code
200	300	3000	3 mm	RSF9/300/EX/3MPQC
200	300	2750	3 mm	RSF9/300/EX/2.75MPQC
200	300	2500	3 mm	RSF9/300/EX/2.5MPQC
200	300	2250	3 mm	RSF9/300/EX/2.25MPQC
200	300	2000	3 mm	RSF9/300/EX/2MPQC
200	300	1750	3 mm	RSF9/300/EX/1.75MPQC
200	300	1500	3 mm	RSF9/300/EX/1.5MPQC
200	300	1250	3 mm	RSF9/300/EX/1.25MPQC
200	300	1000	3 mm	RSF9/300/EX/1MPQC
200	300	750	3 mm	RSF9/300/EX/0.75MPQC
200	300	500	3 mm	RSF9/300/EX/0.5MPQC
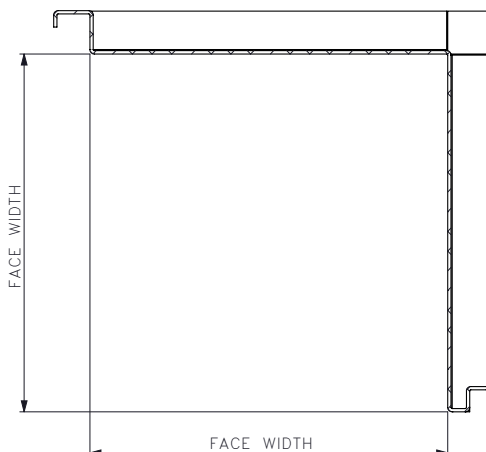
Internal Corners

Min Face (mm)	Max Face (mm)	Length (mm)	Material Thickness	Code
200	300	3000	3 mm	RSF9/300/IN/3MPQC
200	300	2750	3 mm	RSF9/300/IN/2.75MPQC
200	300	2500	3 mm	RSF9/300/IN/2.5MPQC
200	300	2250	3 mm	RSF9/300/IN/2.25MPQC
200	300	2000	3 mm	RSF9/300/IN/2MPQC
200	300	1750	3 mm	RSF9/300/IN/1.75MPQC
200	300	1500	3 mm	RSF9/300/IN/1.5MPQC
200	300	1250	3 mm	RSF9/300/IN/1.25MPQC
200	300	1000	3 mm	RSF9/300/IN/1MPQC
200	300	750	3 mm	RSF9/300/IN/0.75MPQC
200	300	500	3 mm	RSF9/300/IN/0.5MPQC

Secret Fix Panel Window Detailing

Elevate your Rainscreen Cladding project with our innovative modular window detailing system, designed for a flawless, integrated finish. This discreet solution enhances aesthetics while delivering superior functionality. Each component—from precision-engineered trims for every reveal to factory-mitred, welded corners and a robust lower cill—works together to ensure seamless installation and optimal rainwater management. The result? A sleek, professional look that protects your building and sets your design apart.

Key Features

- Handed left and right trims to integrate into the jointing method of the connecting panels
- Fitted using visible colour coded fixings
- Fully bespoke offer to conceal the reveal created by the cladding system
- Discreet integrated design which finishes flush with the outer face of the cladding

Modular Components

- Left hand trim - Interlocking with panel deisgn
- Right hand trim - Interlocking with panel deisgn
- Top trim - Interlocking with panel deisgn
- Factory mitred and welded corners
- Lower Cill - Designed to take any rainwater away from the building

Skyline Window Surrounds

Architectural Aluminium Window Pods combine the functionality of a traditional window with special features of detailing for that ultimate contemporary design aesthetic. Our window pods can add visual interest, variety and colour to a building facade.

Key Features

Innovative Fixing Bracket

- Easy-to-install complete kits with innovative bracket design that allows for fixing direct to the building façade
- Robust 3mm-thick aluminium bracket
- Eliminates the requirement for costly boxing/joinery
- Wall fixing support brackets with cantilever design and wide fixing surface area for ease of installation

Deepline & Slimline

- Scope for designers and specifiers to make a variety of visual statements from subtle to bold modernism
- Adds visual interest and appeal to the building façade, creating a distinctive architectural design aesthetic
- Equally well suited for new build or retrofit to improve older buildings by breathing new life into tired and dated façades

Modular Components

- Universal corners
- Flexibility through modular component design solutions
- Available in pre-packet kits

- Made from 2mm non-combustible aluminium sheet
- Robust powder-coated finish
- Long life and low maintenance

NH3 Bracketry - Secret Fix Vertical Installation

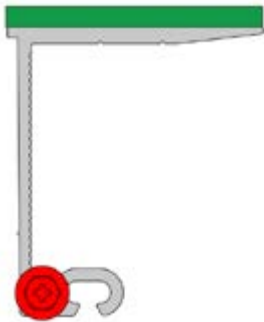| Single or Double Bracket	Min System (mm)	Max System (mm)	Slot Width (mm)	Material Thickness (mm)	Code
Single	77	117	6.5	3	RB/NH3/75/6.5
Single	92	132	6.5	3	RB/NH3/90/6.5
Single	122	162	6.5	3	RB/NH3/120/6.5
Single	152	192	6.5	3	RB/NH3/150/6.5
Single	182	222	6.5	3	RB/NH3/180/6.5
Single	212	252	6.5	3	RB/NH3/210/6.5
Single	242	282	6.5	3	RB/NH3/240/6.5
Single	272	312	6.5	3	RB/NH3/270/6.5
Single	302	342	6.5	3	RB/NH3/300/6.5
Single	77	117	11	3	RB/NH3/75/11
Single	92	132	11	3	RB/NH3/90/11
Single	122	162	11	3	RB/NH3/120/11
Single	152	192	11	3	RB/NH3/150/11
Single	182	222	11	3	RB/NH3/180/11
Single	212	252	11	3	RB/NH3/210/11
Single	242	282	11	3	RB/NH3/240/11
Single	272	312	11	3	RB/NH3/270/11
Single	302	342	11	3	RB/NH3/300/11
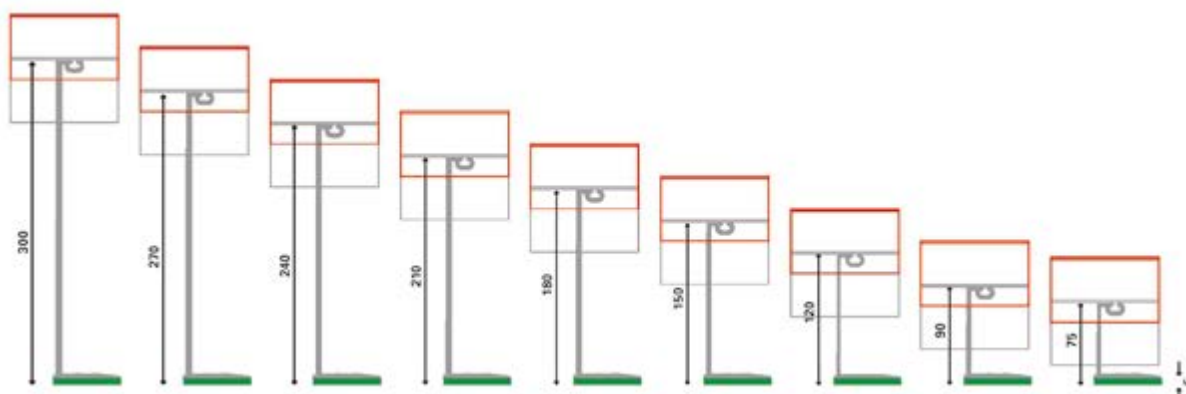
Our NH3 system uses aluminium brackets with a plastic base to minimise cold bridging. The bracketry, when combined with relevant rails, is designed to support a horizontal backframe for vertically aligned secret fix panels. It is supplied as single brackets with slot width options of 6.5mm or 11mm, and it accommodates system depths ranging from a minimum of 77mm to a maximum of 342mm.

NH3 Brackets

- Manufactured from aluminium with plastic base to reduce cold bridging
- Bracketry for the support of a horizontal backframe
- Provides a solution for vertically aligned panel systems
- Available only as single brackets
- Slot widths of 6.5mm (steel & timber substrates) or 11mm slots (brick, block or concrete)
- Minimum system depth of 77mm
- Maximum system depth of 342mm

Fixed Points

- Allows no movement within the system
- Absorbs dead loads
- Always follow the position of fixed points detailed in the static calculations completed for the project

Sliding Points

- Allows movement within the system
- Absorbs dynamic loads and expansion
- Always follow the position of sliding points detailed in the static calculations completed for the project

NV1 Bracketry - Secret Fix Horizontal Installation

Single or Double Bracket	Min System (mm)	Max System (mm)	Slot Width (mm)	Material Thickness (mm)	Code
Single	47	67	6.5/11	5	RB/NV1/40
Single	62	102	6.5/11	5	RB/NV1/60
Single	92	132	6.5/11	5	RB/NV1/90
Single	122	162	6.5/11	5	RB/NV1/120
Single	152	192	6.5/11	5	RB/NV1/150
Single	182	222	6.5/11	5	RB/NV1/180
Single	212	252	6.5/11	5	RB/NV1/210
Single	242	282	6.5/11	5	RB/NV1/240
Single	272	312	6.5/11	5	RB/NV1/270
Single	302	342	6.5/11	5	RB/NV1/300
Single	332	372	6.5/11	5	RB/NV1/270EXT
Single	362	402	6.5/11	5	RB/NV1/300EXT
Double	47	67	6.5	5	RDB/NV1/40/6.5
Double	62	102	6.5	5	RDB/NV1/60/6.5
Double	92	132	6.5	5	RDB/NV1/90/6.5
Double	122	162	6.5	5	RDB/NV1/120/6.5
Double	152	192	6.5	5	RDB/NV1/150/6.5
Double	182	222	6.5	5	RDB/NV1/180/6.5
Double	212	252	6.5	5	RDB/NV1/210/6.5
Double	242	282	6.5	5	RDB/NV1/240/6.5
Double	272	312	6.5	5	RDB/NV1/270/6.5
Double	302	342	6.5	5	RDB/NV1/300/6.5
Double	332	372	6.5	5	RDB/NV1/270EXT/6.5
Double	362	402	6.5	5	RDB/NV1/300EXT/6.5
Double	47	67	11	5	RDB/NV1/40/11
Double	62	102	11	5	RDB/NV1/60/11
Double	92	132	11	5	RDB/NV1/90/11
Double	122	162	11	5	RDB/NV1/120/11
Double	152	192	11	5	RDB/NV1/150/11
Double	182	222	11	5	RDB/NV1/180/11
Double	212	252	11	5	RDB/NV1/210/11
Double	242	282	11	5	RDB/NV1/240/11
Double	272	312	11	5	RDB/NV1/270/11
Double	302	342	11	5	RDB/NV1/300/11
Double	332	372	11	5	RDB/NV1/270EXT/11
Double	362	402	11	5	RDB/NV1/300EXT/11

Our NV1 system uses aluminium brackets with a plastic base to minimise cold bridging. The bracketry, when combined with relevant rails, is designed to support a vertical backframe for horizontally aligned secret fix panels. It is supplied as single or double brackets with slot width options of 6.5mm or 11mm, and it accommodates system depths ranging from a minimum of 47mm to a maximum of 402mm.
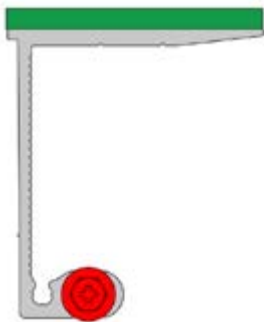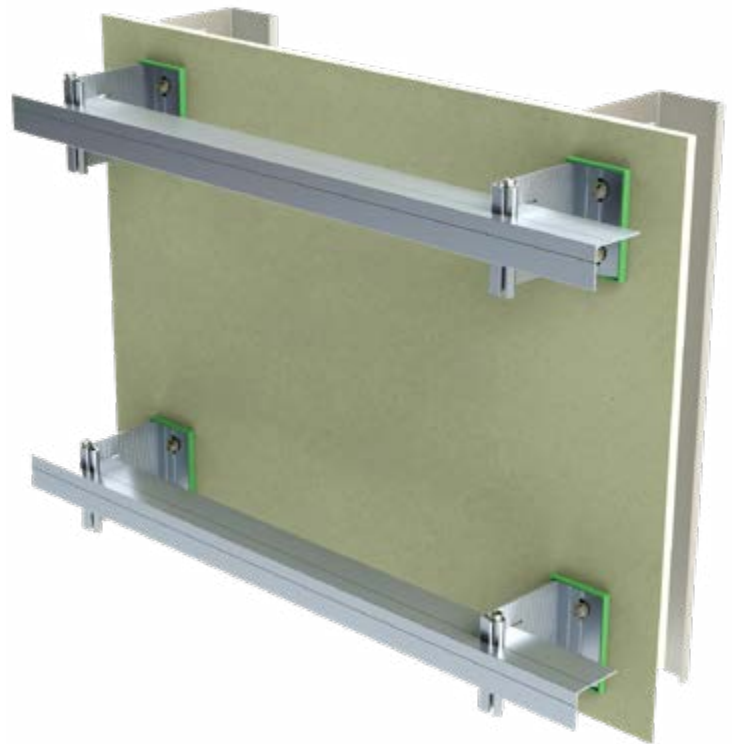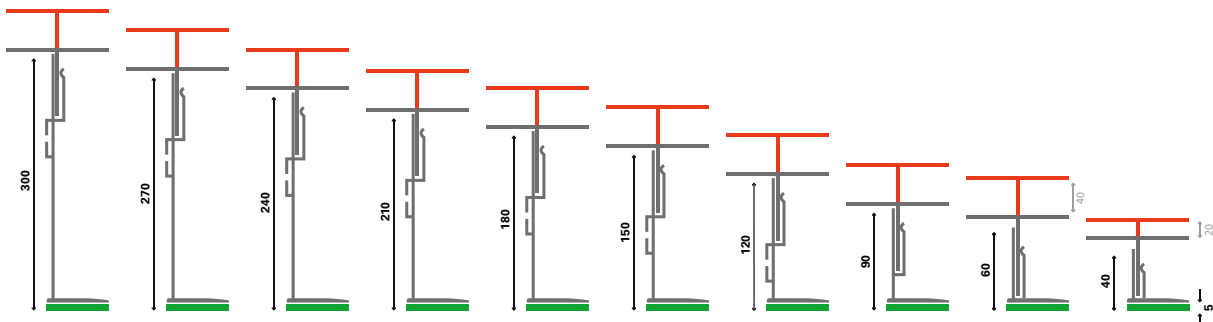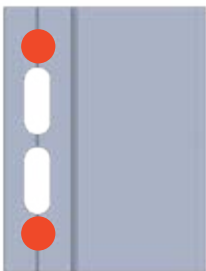
NV1 Brackets

- Manufactured from aluminium with plastic base to reduce cold bridging
- Bracketry for the support of a vertical backframe
- Provides a solution for horizontally aligned panel systems
- Available as both single and double brackets
- Slot widths of 6.5mm (steel & timber substrates) or 11mm slots (brick, block or concrete)
- Minimum system depth of 47mm
- Maximum system depth of 402mm
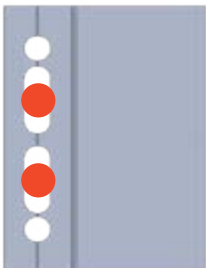
Fixed Points

- Allows no movement within the system
- Absorbs dead loads
- Always follow the position of fixed points detailed in the static calculations completed for the project
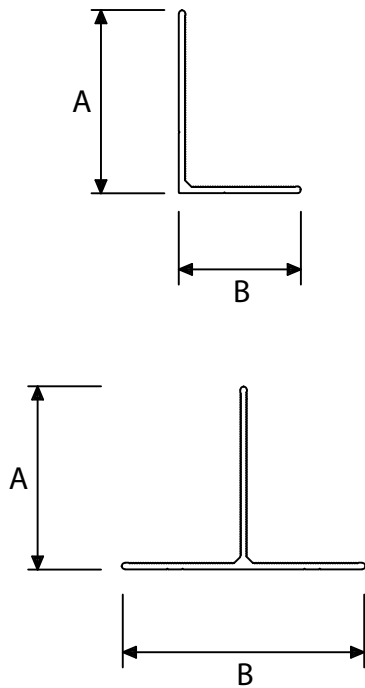
Sliding Points

- Allows movement within the system
- Absorbs dynamic loads and expansion
- Always follow the position of sliding points detailed in the static calculations completed for the project
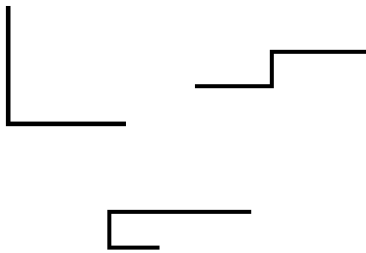
Rails & Fixings

Rails

Profile	A (mm)	B (mm)	Length (mm)	Material Thickness	Code
L	60	40	3000	2.2	RLR/60/40/3M
L	60	40	3600	2.2	RLR/60/40/3.6M
L	60	40	4850	2.2	RLR/60/40/4.85M
L	60	40	6000	2.2	RLR/60/40/6M
L	60	40	VAR	2.2	RLR/60/40/VAR
T	60	100	3000	2.2	RTR/40/100/3M
T	60	100	6000	2.2	RTR/40/100/6M
T	60	100	VAR	2.2	RTR/40/100/VAR
T	60	100	3000	2.2	RTR/60/100/3M
T	60	100	4850	2.2	RTR/60/100/4.85M
T	60	100	6000	2.2	RTR/60/100/6M
T	60	100	VAR	2.2	RTR/60/100/VAR
T	60	140	3000	2.2	RTR/60/140/3M
T	60	140	6000	2.2	RTR/60/140/6M
T	60	140	VAR	2.2	RTR/60/140/VAR

Closers/Trims/Channels

Profile	Material	No. of Bends	Length (mm)	Material Thickness	Code
VAR	Alu	1	3000	2	RCA1/100/3MPQC
VAR	Alu	1	3000	2	RCA1/200/3MPQC
VAR	Alu	2	3000	2	RCA2/100/3MPQC
VAR	Alu	2	3000	2	RCA2/200/3MPQC
VAR	Alu	3	3000	2	RCA3/200/3MPQC
VAR	Alu	3	3000	2	RCA3/300/3MPQC

Galvanised Steel Top Hat

Material	No. of Bends	B (mm)	Length (mm)	Material Thickness	Code
Galv	4	79	3000	2	RTH/80/3M
Galv	4	100	3000	2	RTH/100/3M
Galv	4	150	3000	2	RTH/150/3M

First Level Fixings

- Fixing subframe to the substrate
- Fixing insulation material to substrate

SX5 **SXR**
(55mm)

Guage	Diameter (mm)	Length (mm)	Material	Material Grade	Quantity	Code
Light	6.3	55	Stainless Steel	A4	100	SX5-6.3X55/100
Light	6.3	55	Stainless Steel	A4	500	SX5-6.3X55/500
Light	10	80	Stainless Steel	A4	100	SXR-10X80/100
Light	10	80	Stainless Steel	A4	500	SXR-10X80/500

Second Level Fixings

- Fixing rails/brackets within the subframe system

SX5 **SX3**
(41mm)

Guage	Diameter (mm)	Length (mm)	Material	Material Grade	Quantity	Code
Light	5.5	41	Stainless Steel	A4	100	SX5-5.5X41/100
Light	5.5	41	Stainless Steel	A4	500	SX5-5.5X41/500
Light	6.0	38	Stainless Steel	A4	100	SX3-6.0X38/100
Light	6.0	38	Stainless Steel	A4	500	SX3-6.0X38/500
Light	5.5	22	Stainless Steel	A4	100	SDA5X-5.5X22/100
Light	5.5	22	Stainless Steel	A4	500	SDA5X-5.5X22/500

Third Level Fixings

- Cladding panel fixing to the subframe
- Low profile head
- Mill finish or polyester powder coated

SX5
(35mm)

Guage	Diameter (mm)	Length (mm)	Material	Material Grade	Quantity	Finish	Code
Light	5.5	35	Stainless Steel	A4	100	Mill	SX5-5.5X35/100
Light	5.5	35	Stainless Steel	A4	500	Mill	SX5-5.5X35/500
Light	5.5	35	Stainless Steel	A4	100	PPC	SX5-5.5X35PPC/100
Light	5.5	35	Stainless Steel	A4	500	PPC	SX5-5.5X35PPC/500

1. Ensure you have the correct bracket slot sizes to suit your substrate, the NH3 bracket is available with 6.5mm (steel & timber substrates) or 11mm slots (brick, block or concrete).

The bracket should be installed with the rail slot towards the top of the bracket, take care to ensure the bracket is the correct way up before fixing to the substrate. The NH3 bracket should only be used this way up.

2. Install substrate fixings ensuring both slots are used, by locating the fixings in the centre of the slots, this allows the bracket to be adjusted for line and level before the rail is installed.

Recommended primary fixings vary dependent on the wall type. Please contact us for recommendations. Suitable primary anchors are designed to fix the brackets to a pre-determined grid to suit the cladding panel layout. Stainless steel fixings also assist in preventing bimetallic corrosion.

The size and type of primary fixing for the connectors will always be determined by the dynamic and dead loads they have to resist. Please get in touch if you need further details.

3. The NH3 system is compatible with the 60 x 40 x 2.2 L profile.

The bracket chosen will be determined by how large the cavity zone is and level of insulation required.

Please refer to the table and diagram on page 33 for minimum and maximum system depths.
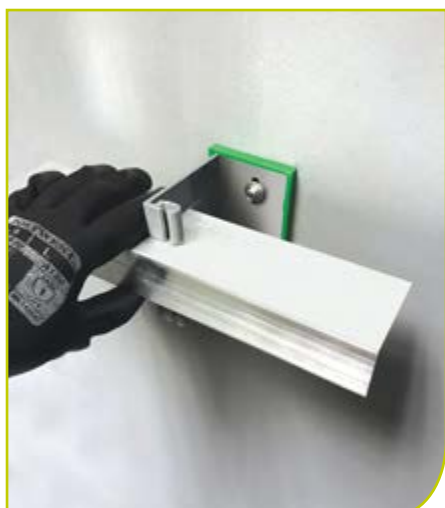

4. Insert the L profile into the helping hand rail slot and adjust for line and level, double checking the correct maximum rail distance from the last bracket.

5. Install the SX5-5.5X35 rail fixing, closely observing the correct fixed and sliding locations. For further information please refer to the fixed and sliding point guide (Step 6), or contact our technical team.

Always follow the position of fixed points detailed in the static calculations completed for the project.

Fixed Point
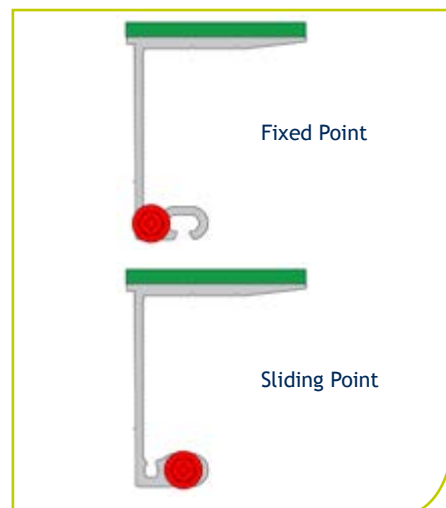
Sliding Point

6. Fixed points allow no movement within the system and absorb dead loads. Sliding points allow movement within the system and absorb dynamic loads and expansion.

Only one bracket per profile should have fixings in the fixed points (round holes), all subsequent brackets should have fixings in the sliding points (slots).

7. Check bracket and rail placement conforms to static calculations completed for the project.

Where insulation is specified (by others), it should be cut and tightly butted around the brackets and secured with the appropriate fixings.

Sufficient insulation fixings should be provided (by others) to ensure that the insulation cannot block the ventilated cavity.

8. It is recommended to always start the installation at the upper left side of the facade, working from left to right and top to bottom.

Raise the first panel and support in horizontal position.

9. Adjust level and height of panel before fixing in place on the right hand flange using low-profile colour coated fixings SX5-5.5X35PPC.

Fixings should be placed at a maximum of 600mm centres along the flange of the panel into the supporting rail.

10. Interlock the next panel on the right using the folds in the left part of the panel, which slot and lock into the recess of the right of the already installed panel.

Repeat fixing the panel as detailed in step 9 using low-profile colour-coated fixings SX5-5.5X35PPC.
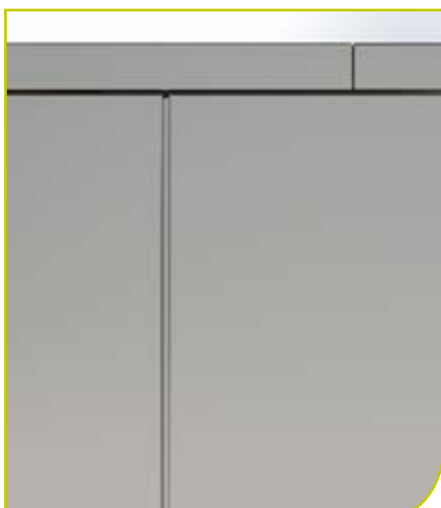
11. Panels are an interference fit with a recommended 10mm shadow gap on the left- and right-hand side of each panel.

Horizontal joints between panels we recommend to be 4-5mm for expansion.

12. Fabricated corners are available for vertical panel applications, or a closer or trim will be required. Window and cill details are available. For further information please contact our technical team.

Typically, profiles are cut so that the panel(s) are located on one set of vertical profiles and do not bridge an expansion gap between two profiles.
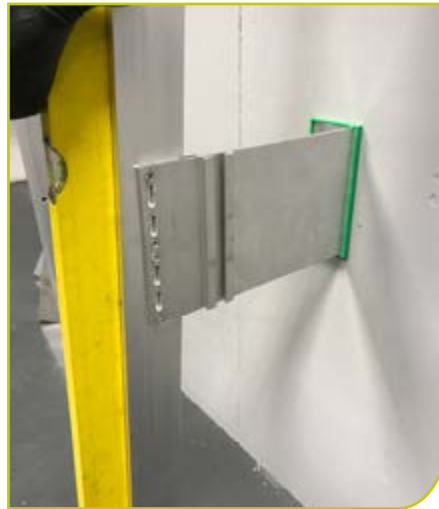
1. Position the brackets as per the static calculations. Secure using the recommended primary fixing. Recommended primary fixings vary dependent on the wall type. Please contact us for recommendations.

Suitable primary anchors are designed to fix the brackets to a pre-determined grid to suit the cladding panel layout. Stainless steel fixings also assist in preventing bimetallic corrosion.

The size and type of primary fixing for the connectors will always be determined by the dynamic and dead loads they have to resist. Please get in touch if you need further details.

2. Once the brackets are aligned in correct positions, fit the cut length profiles into the helping hand of the bracket, following the static calculation.
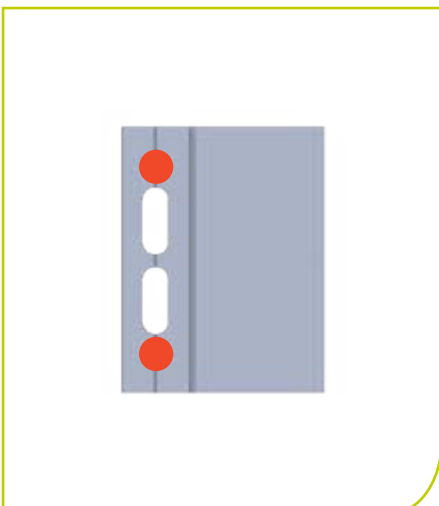
Push the profile into the bracket's helping hand and adjust for line and level.

Check for line and level, ensuring a 10-12mm gap between the ends of rails to allow for expansion.
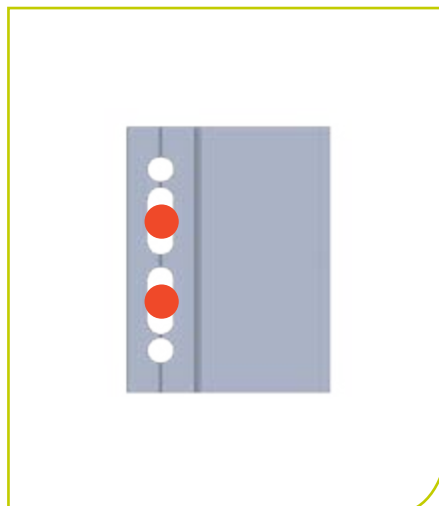

3. Secure the profiles in the correct location using the SDA5X-5.5X22 stainless steel fixing. Observe the correct number and fixing location as advised on the static calculation.

Note: Only one bracket per profile should have fixings in the fixed points (round holes), all subsequent brackets should have fixings in the sliding points (slots).

4. Fixed points allow no movement within the system and absorb dead loads. Always follow the position of fixed points detailed in the static calculations completed for the project.

Only one bracket per profile should have fixings in the fixed points (round holes), all subsequent brackets should have fixings in the sliding points (slots).

5. Sliding points allow movement within the system and absorb dynamic loads and expansion. Always follow the position of sliding points detailed in the static calculations completed for the project.

Only one bracket per profile should have fixings in the fixed points (round holes), all subsequent brackets should have fixings in the sliding points (slots).
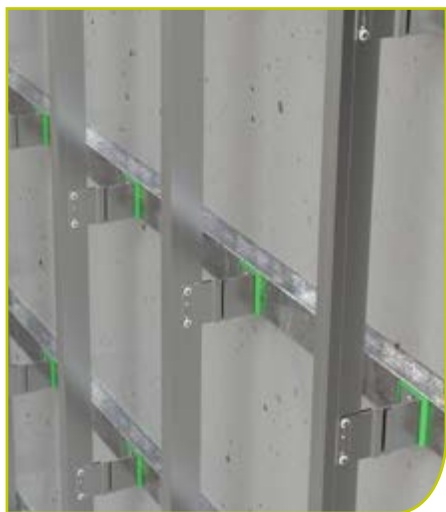

6. Once all brackets and profiles are installed to an area of cladding, final checks should be carried out:

- On the primary anchor torque settings
- To the line and level of the profiles in relation to each other
- To the number of fixings and their position in each bracket

7. Check profile positions in relation to actual panel positions and joints.

Where insulation is specified (by others), it should be cut and tightly butted around the brackets and secured with the appropriate fixings.

Sufficient insulation fixings should be provided (by others) to ensure that the insulation cannot block the ventilated cavity.

8. It is recommended to always start the installation at the upper-left side of the facade, working from top to bottom.

Raise the first panel and support in horizontal position.

9. Adjust level and height of panel before fixing in place on the lower flange using low-profile colour-coated fixings SX5-5.5X35PPC.

Fixings should be placed at a maximum of 600mm centres along the lower flange of the profile into the supporting rail.

10. Interlock the next panel below using the folds in the upper part of the panel, which slot and lock into the recess of the lower panel.

Repeat fixing the panel as detailed in step 9 using low-profile colour-coated fixings SX5-5.5X35PPC.
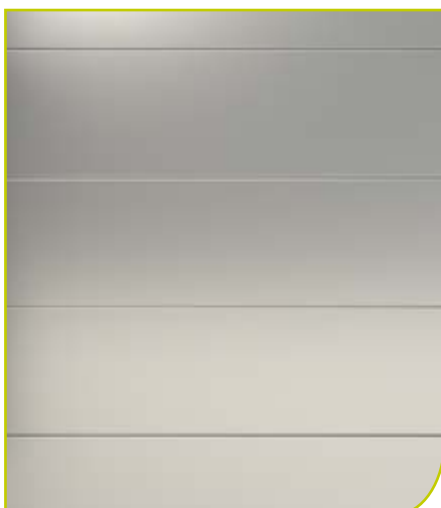
11. Panels are an interference fit with a recommended 10mm shadow gap at the top and bottom of each panel.

Vertical joints between panels we recommend to be 4-5mm for expansion.

12. For horizontal corner applications a closer or trim will be required.

Window and cill details are available. For further information please contact our technical team.

Typically, profiles are cut so that the panel(s) are located on one set of vertical profiles and do not bridge an expansion gap between two profiles.

Cassette Panels

Redefine Your Façade with Aluminium Cassette Panels

Achieve a striking, contemporary look with our precision-engineered Cassette Panels — crafted for seamless integration and effortless installation. Featuring an overlapping joint system with a bold 25mm shadow gap and discreet colour-coded fixings, this solution delivers clean lines and a refined architectural finish.

Manufactured in the UK from durable, recyclable aluminium, and finished with Qualicoat-certified powder coatings in a wide range of colours, Cassette Panels combine performance, sustainability, and design flexibility. Perfect for projects that demand longevity, minimal maintenance, and uncompromising style.
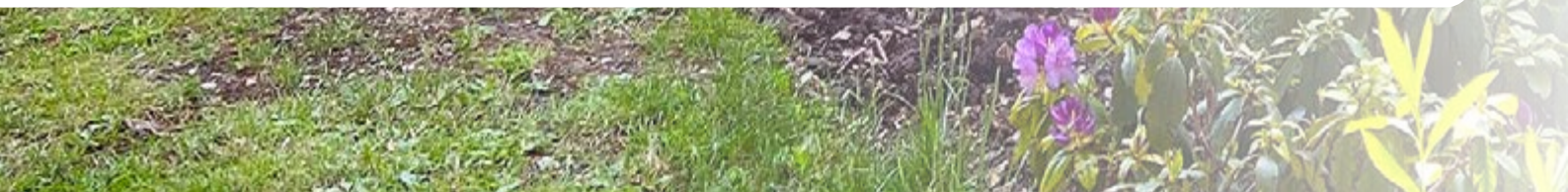
Applications

- Overlapping jointed system
- 25mm shadow gap
- Visible low-profile, colour-coded fixings within shadow gap
- Compatible with other Skyline ranges including fascia, soffit, coping, window surrounds and door canopies
- Fabricated fittings are mitred, welded and have a smooth uniform finish
- Can only be installed in vertical orientation

Features & Performance

- CWCT approved with rigorous testing completed on watertightness, air permeability, wind resistance and impact resistance
- Aluminium as a material when powder coated is fire rated A2-s1,d0 in accordance with BS EN 13501-1:2018
- ISO 14001 sustainability accreditation
- Entirely weatherproof
- Minimal maintenance required
- Life expectancy of aluminium: 40 years (rural/suburban areas); up to 25 years (industrial/marine areas)
- Aluminium is 100% recyclable
- Easy to handle

Manufacture

- Manufactured entirely in the UK out of 3mm-thick aluminium
- ISO 9001 quality accreditation

Colours & Finishes

- Qualicoat certified polyester powder coatings in 27 factory applied colours
- Polyester powder-coated finishes are effective in extending the life of architectural aluminium on buildings
- Any BS or RAL colour available to order
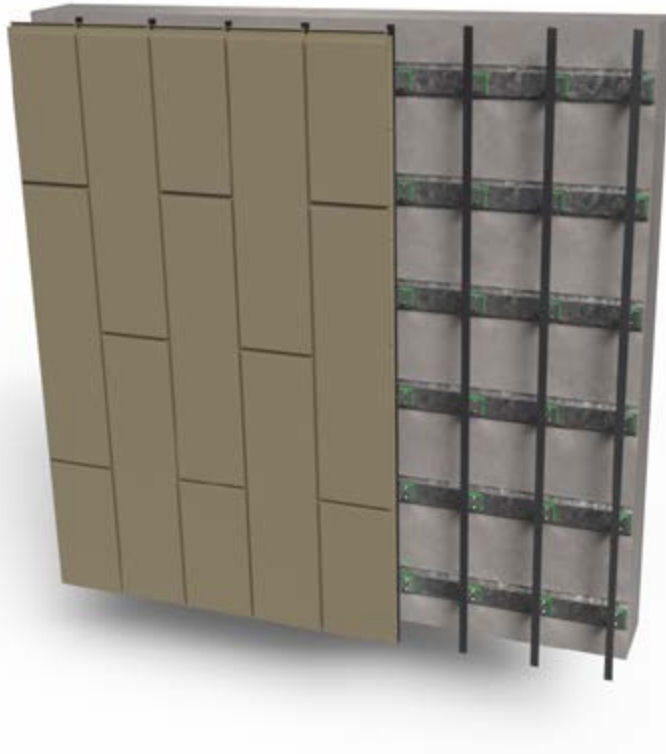
Installation & Fixing

- Panels are generally installed from top to bottom and left to right
- The fixings for each panel are covered by the subsequent panel installed

Bracketry, Rails & Fixings
See pages 40-43

Installation Guidance
See pages 44-45

RCA9 Cassette Panel Dimensions

Vertical Cladding Orientation

## NV1 Bracket & Rail System

Product Notes

- Length refers to the face length not including additional folds for connection
- 25mm shadow gap on all edges
- Visible colour-coded fixings
- Window trims are available
- Compatible with Skyline Window Surrounds, Fasica, Soffit and Coping systems
- When specifying and ordering please specify RAL colour (see page 14)
- Various panel sizes and colours can be combined to create endless design options
- Cassette panels are always installed using our vertical bracket and rail system

How to choose your panel size:

1. Measure the width of the facade where the panels will be installed
2. If corners are required allow for these first, maximum face width for corners is 300mm on either face
3. Allow 4mm expansion gap between panels on the shorter edge and 10mm on the longer edge where they interlock
4. Determine the size and number of panels required between the corners
5. Panel sizes vary with face widths between 200mm and 700mm

Panel Length Dimension Table:

Face Width (mm)	Code Prefix
250-300	RCA9/300
301-350	RCA9/350
351-400	RCA9/400
401-450	RCA9/450
451-500	RCA9/500
501-550	RCA9/550
551-600	RCA9/600
601-650	RCA9/650
651-700	RCA9/700
701-750	RCA9/750
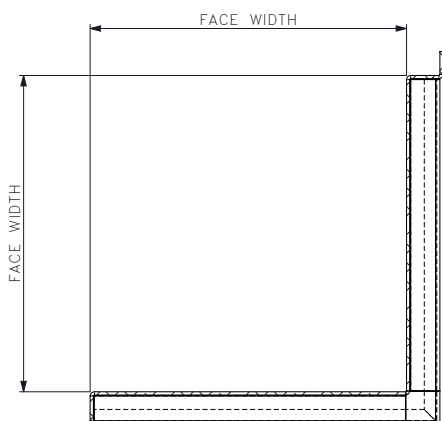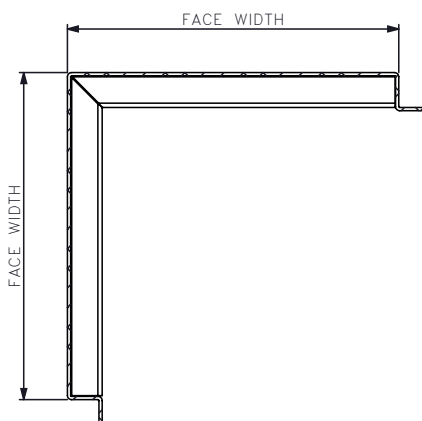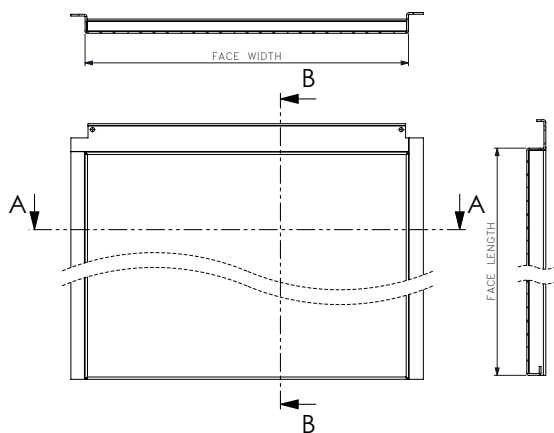
Panel Lengths				
Min Face (mm)	Max Face (mm)	Length (mm)	Material Thickness	Suffix
250	750	3000	3 mm	/3MPQC
250	750	2750	3 mm	/2.75MPQC
250	750	2500	3 mm	/2.5MPQC
250	750	2250	3 mm	/2.25MPQC
250	750	2000	3 mm	/2MPQC
250	750	1750	3 mm	/1.75MPQC
250	750	1500	3 mm	/1.5MPQC
250	750	1250	3 mm	/1.25MPQC
250	750	1000	3 mm	/1MPQC
250	750	750	3 mm	/0.75MPQC
250	750	500	3 mm	/0.5MPQC

External Corners				
Min Face (mm)	Max Face (mm)	Length (mm)	Material Thickness	Code
200	300	3000	3 mm	RCA9/300/EX/3MPQC
200	300	2750	3 mm	RCA9/300/EX/2.75MPQC
200	300	2500	3 mm	RCA9/300/EX/2.5MPQC
200	300	2250	3 mm	RCA9/300/EX/2.25MPQC
200	300	2000	3 mm	RCA9/300/EX/2MPQC
200	300	1750	3 mm	RCA9/300/EX/1.75MPQC
200	300	1500	3 mm	RCA9/300/EX/1.5MPQC
200	300	1250	3 mm	RCA9/300/EX/1.25MPQC
200	300	1000	3 mm	RCA9/300/EX/1MPQC
200	300	750	3 mm	RCA9/300/EX/0.75MPQC
200	300	500	3 mm	RCA9/300/EX/0.5MPQC

Internal Corners				
Min Face (mm)	Max Face (mm)	Length (mm)	Material Thickness	Code
200	300	3000	3 mm	RCA9/300/IN/3MPQC
200	300	2750	3 mm	RCA9/300/IN/2.75MPQC
200	300	2500	3 mm	RCA9/300/IN/2.5MPQC
200	300	2250	3 mm	RCA9/300/IN/2.25MPQC
200	300	2000	3 mm	RCA9/300/IN/2MPQC
200	300	1750	3 mm	RCA9/300/IN/1.75MPQC
200	300	1500	3 mm	RCA9/300/IN/1.5MPQC
200	300	1250	3 mm	RCA9/300/IN/1.25MPQC
200	300	1000	3 mm	RCA9/300/IN/1MPQC
200	300	750	3 mm	RCA9/300/IN/0.75MPQC
200	300	500	3 mm	RCA9/300/IN/0.5MPQC

Cassette Panel Window Detailing

Elevate your Rainscreen Cladding project with our innovative modular window detailing system, designed for a flawless, integrated finish. This discreet solution enhances aesthetics while delivering superior functionality. Each component—from precision-engineered trims for every reveal to factory-mitred, welded corners and a robust lower cill—works together to ensure seamless installation and optimal rainwater management. The result? A sleek, professional look that protects your building and sets your design apart.

Key Features

- Handed left and right trims to integrate into the jointing method of the connecting panels
- Fitted using visible colour coded fixings
- Fully bespoke offer to conceal the reveal created by the cladding system
- Discreet integrated design which finishes flush with the outer face of the cladding

Modular Components

- Left hand trim - Interlocking with panel deisgn
- Right hand trim - Interlocking with panel deisgn
- Top trim - Interlocking with panel deisgn
- Factory mitred and welded corners
- Lower Cill - Designed to take any rainwater away from the building

Architectural Aluminium Window Pods combine the functionality of a traditional window with special features of detailing for that ultimate contemporary design aesthetic. Our window pods can add visual interest, variety and colour to a building facade.

Key Features

Innovative Fixing Bracket

- Easy-to-install complete kits with innovative bracket design that allows for fixing direct to the building façade
- Robust 3mm-thick aluminium bracket
- Eliminates the requirement for costly boxing/joinery
- Wall fixing support brackets with cantilever design and wide fixing surface area for ease of installation

Deepline & Slimline

- Scope for designers and specifiers to make a variety of visual statements from subtle to bold modernism
- Adds visual interest and appeal to the building façade, creating a distinctive architectural design aesthetic
- Equally well suited for new build or retrofit to improve older buildings by breathing new life into tired and dated façades

Modular Components

- Universal corners
- Flexibility through modular component design solutions
- Available in pre-packet kits

- Made from 2mm non-combustible aluminium sheet
- Robust powder-coated finish
- Long life and low maintenance
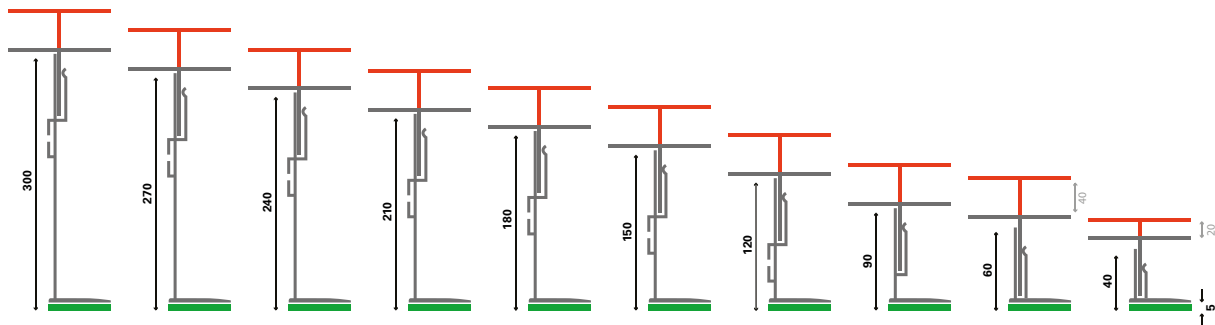
NV1 Bracketry - Cassette Vertical Installation

Single or Double Bracket	Min System (mm)	Max System (mm)	Slot Width (mm)	Material Thickness (mm)	Code
Single	47	67	6.5/11	5	RB/NV1/40
Single	62	102	6.5/11	5	RB/NV1/60
Single	92	132	6.5/11	5	RB/NV1/90
Single	122	162	6.5/11	5	RB/NV1/120
Single	152	192	6.5/11	5	RB/NV1/150
Single	182	222	6.5/11	5	RB/NV1/180
Single	212	252	6.5/11	5	RB/NV1/210
Single	242	282	6.5/11	5	RB/NV1/240
Single	272	312	6.5/11	5	RB/NV1/270
Single	302	342	6.5/11	5	RB/NV1/300
Single	332	372	6.5/11	5	RB/NV1/270EXT
Single	362	402	6.5/11	5	RB/NV1/300EXT
Double	47	67	6.5	5	RDB/NV1/40/6.5
Double	62	102	6.5	5	RDB/NV1/60/6.5
Double	92	132	6.5	5	RDB/NV1/90/6.5
Double	122	162	6.5	5	RDB/NV1/120/6.5
Double	152	192	6.5	5	RDB/NV1/150/6.5
Double	182	222	6.5	5	RDB/NV1/180/6.5
Double	212	252	6.5	5	RDB/NV1/210/6.5
Double	242	282	6.5	5	RDB/NV1/240/6.5
Double	272	312	6.5	5	RDB/NV1/270/6.5
Double	302	342	6.5	5	RDB/NV1/300/6.5
Double	332	372	6.5	5	RDB/NV1/270EXT/6.5
Double	362	402	6.5	5	RDB/NV1/300EXT/6.5
Double	47	67	11	5	RDB/NV1/40/11
Double	62	102	11	5	RDB/NV1/60/11
Double	92	132	11	5	RDB/NV1/90/11
Double	122	162	11	5	RDB/NV1/120/11
Double	152	192	11	5	RDB/NV1/150/11
Double	182	222	11	5	RDB/NV1/180/11
Double	212	252	11	5	RDB/NV1/210/11
Double	242	282	11	5	RDB/NV1/240/11
Double	272	312	11	5	RDB/NV1/270/11
Double	302	342	11	5	RDB/NV1/300/11
Double	332	372	11	5	RDB/NV1/270EXT/11
Double	362	402	11	5	RDB/NV1/300EXT/11

Our NV1 system uses aluminium brackets with a plastic base to minimise cold bridging. The bracketry when combined with relevant rails is designed to support a vertical backframe for horizontally aligned secret fix panels. It is supplied as single or double brackets with slot width options of 6.5mm or 11mm, and it accommodates system depths ranging from a minimum of 47mm to a maximum of 402mm.
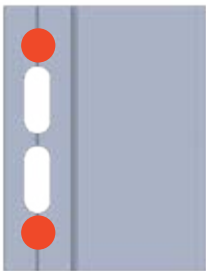
NV1 Brackets

- Manufactured from aluminium with plastic base to reduce cold bridging
- Bracketry for the support of a vertical backframe
- Provides a solution for horizontally aligned panel systems
- Available as both single and double brackets
- Slot widths of 6.5mm (steel & timber substrates) or 11mm slots (brick, block or concrete).
- Minimum system depth of 47mm
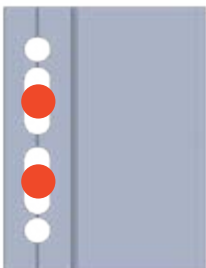- Maximum system depth of 402mm

Fixed Points

- Allows no movement within the system
- Absorbs dead loads
- Always follow the position of fixed points detailed in the static calculations completed for the project
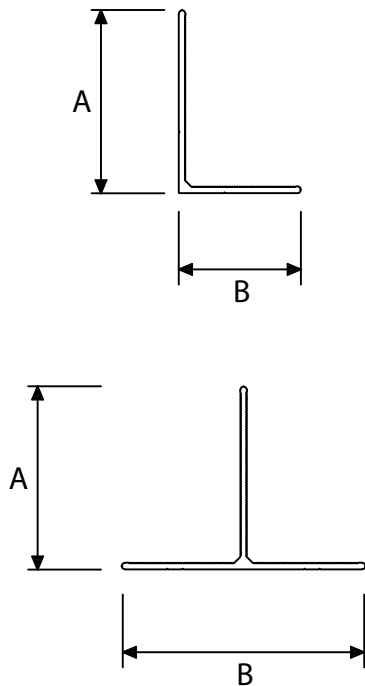
Sliding Points

- Allows movement within the system
- Absorbs dynamic loads and expansion
- Always follow the position of sliding points detailed in the static calculations completed for the project
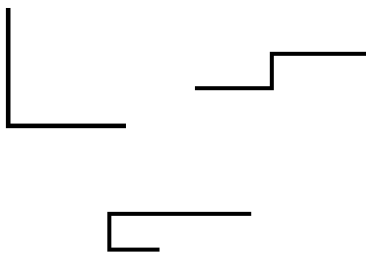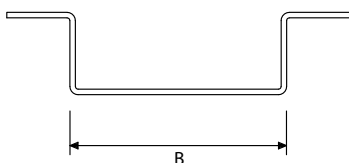
Rails

Profile	A (mm)	B (mm)	Length (mm)	Material Thickness	Code
L	60	40	3000	2.2	RLR/60/40/3M
L	60	40	3600	2.2	RLR/60/40/3.6M
L	60	40	4850	2.2	RLR/60/40/4.85M
L	60	40	6000	2.2	RLR/60/40/6M
L	60	40	VAR	2.2	RLR/60/40/VAR
T	60	100	3000	2.2	RTR/40/100/3M
T	60	100	6000	2.2	RTR/40/100/6M
T	60	100	VAR	2.2	RTR/40/100/VAR
T	60	100	3000	2.2	RTR/60/100/3M
T	60	100	4850	2.2	RTR/60/100/4.85M
T	60	100	6000	2.2	RTR/60/100/6M
T	60	100	VAR	2.2	RTR/60/100/VAR
T	60	140	3000	2.2	RTR/60/140/3M
T	60	140	6000	2.2	RTR/60/140/6M
T	60	140	VAR	2.2	RTR/60/140/VAR

Closers/Trims/Channels

Profile	Material	No. of Bends	Length (mm)	Material Thickness	Code
VAR	Alu	1	3000	2	RCA1/100/3MPQC
VAR	Alu	1	3000	2	RCA1/200/3MPQC
VAR	Alu	2	3000	2	RCA2/100/3MPQC
VAR	Alu	2	3000	2	RCA2/200/3MPQC
VAR	Alu	3	3000	2	RCA3/200/3MPQC
VAR	Alu	3	3000	2	RCA3/300/3MPQC

Galvanised Steel Top Hat

Material	No. of Bends	B (mm)	Length (mm)	Material Thickness	Code
Galv	4	79	3000	2	RTH/80/3M
Galv	4	100	3000	2	RTH/100/3M
Galv	4	150	3000	2	RTH/150/3M

First Level Fixings

- Fixing subframe to the substrate
- Fixing insulation material to substrate

SX5 **SXR**
(55mm)

Guage	Diameter (mm)	Length (mm)	Material	Material Grade	Quantity	Code
Light	6.3	55	Stainless Steel	A4	100	SX5-6.3X55/100
Light	6.3	55	Stainless Steel	A4	500	SX5-6.3X55/500
Light	10	80	Stainless Steel	A4	100	SXR-10X80/100
Light	10	80	Stainless Steel	A4	500	SXR-10X80/500

Second Level Fixings

- Fixing rails/brackets within the subframe system

SX5 **SX3**
(41mm)

Guage	Diameter (mm)	Length (mm)	Material	Material Grade	Quantity	Code
Light	5.5	41	Stainless Steel	A4	100	SX5-5.5X41/100
Light	5.5	41	Stainless Steel	A4	500	SX5-5.5X41/500
Light	6.0	38	Stainless Steel	A4	100	SX3-6.0X38/100
Light	6.0	38	Stainless Steel	A4	500	SX3-6.0X38/500
Light	5.5	22	Stainless Steel	A4	100	SDA5X-5.5X22/100
Light	5.5	22	Stainless Steel	A4	500	SDA5X-5.5X22/500

Third Level Fixings

- Cladding panel fixing to the subframe
- Low profile head
- Mill finish or polyester powder coated

SX5
(35mm)

Guage	Diameter (mm)	Length (mm)	Material	Material Grade	Quantity	Finish	Code
Light	5.5	35	Stainless Steel	A4	100	Mill	SX5-5.5X35/100
Light	5.5	35	Stainless Steel	A4	500	Mill	SX5-5.5X35/500
Light	5.5	35	Stainless Steel	A4	100	PPC	SX5-5.5X35PPC/100
Light	5.5	35	Stainless Steel	A4	500	PPC	SX5-5.5X35PPC/500

Cassette Panels Installation Guide (NV1)

1. Position the brackets as per the static calculations. Secure using the recommended primary fixing. Recommended primary fixings vary dependent on the wall type. Please contact us for recommendations.

Suitable primary anchors are designed to fix the brackets to a pre-determined grid to suit the cladding panel layout. Stainless steel fixings also assist in preventing bimetallic corrosion.

The size and type of primary fixing for the connectors will always be determined by the dynamic and dead loads they have to resist. Please get in touch if you need further details.

2. Once the brackets are aligned in correct positions, fit the cut length profiles into the helping hand of the bracket, following the static calculation.
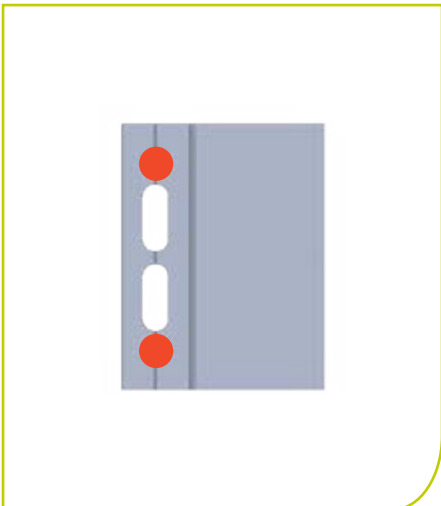
Push the profile into the bracket's helping hand and adjust for line and level.

Check for line and level, ensuring a 10-12mm gap between the ends of rails to allow for expansion.
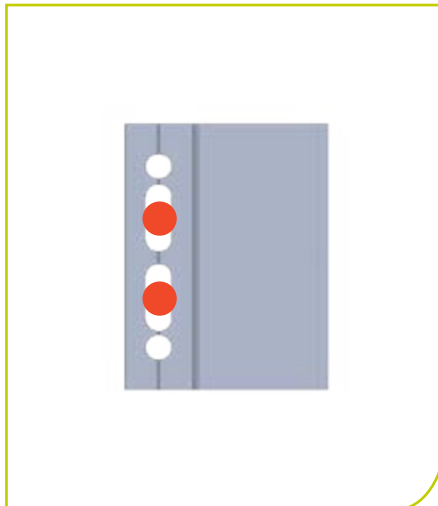

3. Secure the profiles in the correct location using the SDA5X-5.5X22 stainless steel fixing. Observe the correct number and fixing location as advised on the static calculation.

Note: Only one bracket per profile should have fixings in the fixed points (round holes), all subsequent brackets should have fixings in the sliding points (slots).

4. Fixed points allow no movement within the system and absorb deadloads. Always follow the position of fixed points detailed in the static calculations completed for the project.

Only one bracket per profile should have fixings in the fixed points (round holes), all subsequent brackets should have fixings in the sliding points (slots).
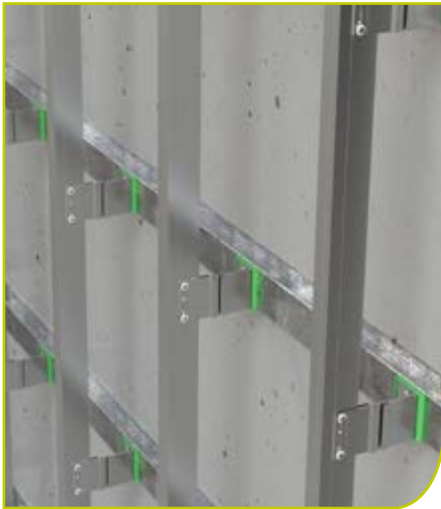

5. Sliding points allow movement within the system and absorb dynamic loads and expansion. Always follow the position of sliding points detailed in the static calculations completed for the project.

Only one bracket per profile should have fixings in the fixed points (round holes), all subsequent brackets should have fixings in the sliding points (slots).

6. Once all brackets and profiles are installed to an area of cladding, final checks should be carried out:

- On the primary anchor torque settings
- To the line and level of the profiles in relation to each other
- To the number of fixings and their position in each bracket

7. Check profile positions in relation to actual panel positions and joints.

Where insulation is specified (By others), it should be cut and tightly butted around the brackets and secured with the appropriate fixings.

Sufficient insulation fixings should be provided (By others) to ensure that the insulation cannot block the ventilated cavity.

8. It is recommended to always start the installation at the upper left side of the facade, working from top to bottom.

Raise the first panel and support in horizontal position.

9. Adjust level and height of panel before fixing in place on the flanges provided using low profile colour coated fixings SX5-5.5X35PPC.

Fixings should be placed at a maximum of 600mm centres along the lower flange of the profile into the supporting rail.
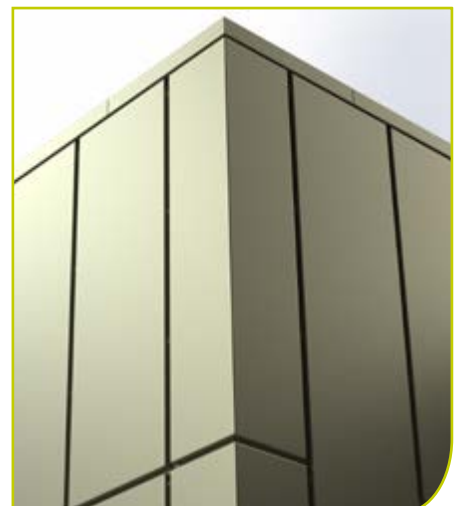
10. Overlap the next panel below using the flanges provided ensuring the 25mm shadowgap is constant throughout.

Repeat fixing the panel as detailed in step 9 using low profile colour coated fixings SX5-5.5X35PPC.

11. Panels are an interferance fit with a recommended 25mm constant shadowgap on all sides with visible colour matched fixings

12. Window and cill details are available, for further information please contact our technical team.

Typically, profiles are cut so that the panel(s) are located on one set of vertical profiles and do not bridge an expansion gap between two profiles.

Project Builder

Project Builder provides fast, project-specific guidance for rainscreen façade design, by turning key building details into a tailored technical package. It simplifies complex engineering by delivering optimised layouts, fixing specifications and wind load assessments, helping ensure compliance while reducing design time. With all essential data consolidated in one clear document — plus access to expert support — it offers a dependable, user-friendly solution for achieving safe and efficient façade systems.

Our Project Builder is an advanced tool designed to give you fast, reliable, project-specific guidance for your rainscreen façade design. By combining key details such as building height, façade type, cladding zone depth and structural load conditions, it automatically produces a tailored technical package. This ensures you can move forward with confidence, knowing your project requirements are supported by accurate engineering insight.

This simplifies complex engineering processes into clear, actionable information. The Project Builder delivers optimised bracket layouts, fixing specifications, wind load assessments and system configuration details for both general and corner conditions. This helps ensure compliance with industry standards while reducing design time and minimising the risk of specification errors. It provides the clarity and reassurance needed at every stage of the façade design journey.
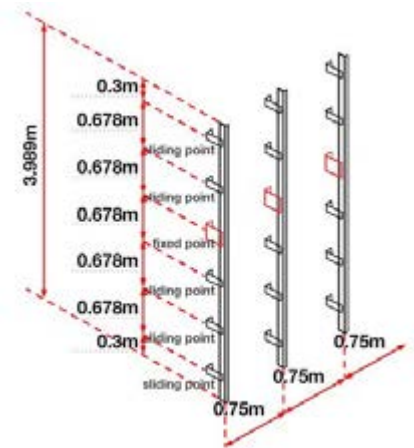
The resulting document provides all essential technical outputs in one place; from wind pressure calculations and pull-out performance values to bracket types, adjustment ranges and rail spacing guidance. It also highlights any project changes and includes direct access to expert support when needed. This makes the Project Builder a valuable resource for architects, engineers and installers seeking a dependable, user-friendly way to achieve a safe, efficient and fully compliant rainscreen solution.

CWCT Testing - Proven Performance

When it comes to rainscreen cladding, performance is everything. A façade must do more than look good: it must protect, endure, and stand up to the harshest real-world conditions. That's why CWCT testing has become the gold standard for validating the reliability of modern cladding systems.

CWCT (Centre for Window & Cladding Technology) testing is one of the most comprehensive and respected assessment methods in the industry. Unlike basic compliance checks, CWCT evaluates the entire rainscreen system, i.e., not just the panels, but the fixings, joints, rails, and supporting structure.

What the testing involves?

1. Watertightness Assessment (Static & Dynamic) - High-pressure water, combined with simulated wind forces, ensures no moisture reaches the backing structure; keeping buildings dry and protected.
2. Air Leakage Testing - Air permeability is measured under varying pressure levels to ensure airtightness, energy efficiency, and long-term building comfort.
3. Wind Resistance Testing - Systems are pushed to both positive and negative wind loads, proving their strength and stability even at elevated design pressures.
4. Impact Resistance - From accidental bumps to harsher impacts, both hard- and soft-body tests confirm that the cladding can withstand everyday use and unexpected events without compromising safety.

These tests simulate decades of environmental exposure in a controlled setting, recreating everything from wind-driven rain to extreme pressure cycles. The result? Absolute confidence in how your façade will perform throughout its lifespan.

A Better Standard for Modern Façades

CWCT testing isn't just a requirement, it's a commitment to excellence. It proves that Skyline Rainscreen Cladding isn't just compliant on paper. It has been proven to perform where it matters most: in the real world.

Alumasc is one of the UK's leading manufacturers of aluminium products for the construction industry. Our expertise in aluminium casting, extrusion and fabrication stems from a proven track record accumulated over 50 years, enabling us to provide unrivalled technical support for designers, specifiers and contractors. We lead the way in the field of construction product and system manufacture and the delivery of proven solutions.

Stockists & Installers

Alumasc products are readily available through independent and national distributors. Alumasc are experienced in working with main contractors and specialist installers with site support available throughout the project.

Support Services

Comprehensive information and advice for specification and use of Skyline products is available through Alumasc Technical Services department. This is backed by proactive support on a project-by-project basis, led by specialist Technical Area Managers.

Premium Products

A constantly evolving range of quality-proven, world-class products and systems, that are accredited to UK and European Standards where applicable.

Design

Alumasc offers a choice of standard and bespoke aluminium solutions to the specifier. The Alumasc team is able to give advice on schemes from the earliest inception sketches to allow even the most elaborate concepts to be realised. Involvement at these primary stages ensures optimum performance from the chosen materials, whilst keeping a tight check on feasibility and cost of the design.

Solutions

Fascias and soffits can be designed as stand alone or to house integrated rainwater management systems. Alumasc can carry out rainwater flow calculations as well as making certain that all imposed loadings are catered for. Alumasc's aluminium rainwater ranges include dry-joint extruded and wet-joint folded gutter profiles, which can be used in combination with various downpipes and roof edge treatments to fulfil different functional requirements (e.g., high security) and for different visual effects to suit the building context.

Performance

Skyline product solutions are designed to give optimum performance over their lifespan. In every aspect of material choice or detailing decision, the aim is to produce premium, fit-for-purpose products and systems.

This ethos has resulted in Skyline being associated with innovative projects that have led the way in construction performance, stood the test of time and demonstrated good design.

Innovation

Ongoing research and development ensures that our offer comprises high-quality, world-class products and systems that meet UK and European standards.

As well as evolution of existing trusted products and systems, Alumasc's commitment to ongoing development and the promotion of best practice, is reflected in our NPD focus and our market leading CPD programme, which keeps the industry abreast of new standards and product solutions.

Specification

In collaboration with NBS Source, Alumasc products are listed on the NBS library to allow architects and specifiers quick and easy access to the correct product specification and respective clauses. The below table lists applicable clauses for each of the Skyline product; some products fall into one or more category and will vary by application.

Typical clauses are listed below; for specific advice and guidance on specification clauses, please contact the Skyline technical team on 01536 383810.

Product Range	Classification	Uniclass		Caws	
		Code	Title	Code	Title
Skyline Rainscreen Cladding Secret Fix (RSF9)	**Primary**	Ss_25_20_70_25	**Drained and back-ventilated rainscreen cladding systems**	**H92**/120	**Rainscreen cladding** [1]
	Additional			H20/10	Sheet cladding [2]
Skyline Rainscreen Cladding Cassette (RCA9)	**Primary**	Ss_25_20_70_25	**Drained and back-ventilated rainscreen cladding systems**	**H92**/120	**Rainscreen cladding** [1]
	Additional			H20/10	Sheet cladding [2]

Notes: (1) - Architecture, (2) - Small works

Skyline Rainscreen Cladding Secret Fix (RSF9)

Manufacturer

Alumasc Water Management Solutions, Station Road, Burton Latimer, Kettering, Northants NN15 5JP 01536 383810. Email: info@Alumascwms.co.uk

Product reference: Use product name and product code e.g. Skyline Rainscreen Cladding Secret Fix (RSF9)

Material/grade: 3mm thick aluminium manufactured from 1050 AH 14

Size/Profile: Standard sizes and profiles or as indicated on Architects detailed designs

Finish/Colour: Polyester powder coated to BS EN 12206-1:2004 as per Architects requirements. Qualicoat Finish

Accessories: Cills, Window Surrounds, Coping, Angles

Other requirements: Main structure by others. Carrier system to be AWMS supplied to conform with CWCT test report. Contractor to site cut/trim as required and level and line through.

Method of jointing: Contractor to allow for thermal expansion leave 4mm gap within joint for this purpose, follow manufacturer installation guide on all jointing and fixing methods. Use touch up paint on all exposed edges and fixing heads.

Method of support/fixing: To be fixed in strict accordance with manufacturers installation guide. Installation to be carried out be an Alumasc recommended installer (list of recommended installers available on request).

Skyline Rainscreen Cladding Cassette (RCA9)

Manufacturer

Alumasc Water Management Solutions, Station Road, Burton Latimer, Kettering, Northants NN15 5JP 01536 383810. Email: info@Alumascwms.co.uk

Product reference: Use product name and product code e.g. Skyline Rainscreen Cladding Cassette (RCA9)

Material/grade: 3mm thick aluminium manufactured from 1050 AH 14

Size/Profile: Standard sizes and profiles or as indicated on Architects detailed designs

Finish/Colour: Polyester powder coated to BS EN 12206-1:2004 as per Architects requirements. Qualicoat Finish

Accessories: Cills, Window Surrounds, Coping, Angles

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Complementary Skyline Systems

Skyline Architectural Aluminium delivers a complete, integrated range of aluminium design solutions engineered for performance, longevity and aesthetic freedom. It offers both standard and fully bespoke options that empower designers to create high-quality, durable and visually striking roofline and façade details for any building style.

Fascia & Soffit
Durable, powder-coated aluminium fascia and soffit systems in standard or bespoke profiles and wide RAL colours, providing a seamless roofline, and integrating with rainwater solutions for a long-life, modern or traditional eaves interface.

Flat & Sloping Coping
Flat and sloping copings provide durable, weatherproof aluminium capping for parapet walls. They use a non-penetrative strap-fix system, are available in powder-coated RAL colours for new build and retrofit applications, and are wind-uplift tested for long-term performance.

Window Surrounds
Transform façades with premium aluminium surrounds offering Deepline (100mm) or Slimline (50mm) projection. Available in 26+ RAL colours, they deliver a sleek, modern finish that's durable, low maintenance, and easy to install. Perfect for new builds or retrofits, with bespoke options for standout designs.

Anti-Climb Fascia
Skyline Anti-Climb Fascias by Alumasc offer robust 2mm aluminium security profiles with a sleek, curved design that deters unauthorised access. Powder coated in any RAL, they're weatherproof, lightweight, and retrofit-friendly, lasting up to 40 years and enhancing architectural appeal.

Column Casings
Elevate your architecture with premium aluminium casings that hide structural columns in style. Available in circular, square, or custom profiles, they offer a flawless finish, fire safety, and easy installation — perfect for modern façades and bespoke design statements.

Door Canopies
Add style and protection with premium aluminium canopies designed for modern entrances. Lightweight, durable, and powder coated in any RAL colour, they offer easy installation, weather resistance, and a sleek architectural finish — perfect for enhancing kerb appeal and functionality.

Planters
Enhance outdoor spaces with sleek, durable aluminium planters in a range of sizes and finishes. Lightweight, weather-resistant, and powder coated in any RAL colour, they offer modern aesthetics, long-lasting performance, and easy integration for stylish landscaping solutions.

Notes

Sustainable solutions • Innovative visual design

AWMS
Station Road
Burton Latimer
Northamptonshire
NN15 5JP

+44 (0) 1536 383 810

info@alumascwms.co.uk

SKYLINE ®

ARCHITECTURAL ALUMINIUM

ALUMASC
WATER MANAGEMENT SOLUTIONS

SKYLINE
ARCHITECTURAL ALUMINIUM

ALUMASC RAINWATER
GUTTERS AND DOWNPIPES

HARMER
BUILDING DRAINAGE

WADE
BUILDING DRAINAGE

GATIC
DRAINAGE & ACCESS COVERS