OUR GLAZING SYSTEMS

A summary of all of our glazing systems and where to find them in this book.

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GET IN TOUCH...

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WHAT’S MOST POPULAR?...
A visual guide to some of our most popular systems and where to find them in this book.

SHOPFRONTS
Made to measure, delivered to you.

VISOFOLD 1000
Popular door system giving a choice of curved or flat door profiles.

ALITHERM 700
Unique Parallel opening facility allowing for effective airflow whilst maintaining security.

CURTAIN WALL
MC 600 - Create a dramatic but practical façade, with the option of sloped and facet-shaped glazing whilst allowing maximum light.

ALITHERM 600
Popular window system which ticks all the boxes.

ESCAPE DOORS
For your peace of mind all escape doors are fully certified to EN1451-1:2006+A1:2010

VERTICAL SLIDER
VS600 - Traditionally styled sash windows

WHAT’S NEW?...
WELCOME

Nova Aluminium Systems Limited are strictly a trade only supplier. We do not compete with our own customers.

Manufacturing from the comprehensive quality systems from leading aluminium specialists, Smart Architectural Aluminium, we supply our customers for projects ranging from £100 up to £100,000.

Nova was established in 2005 and has since become one of the leading aluminium trade suppliers in the UK. The company can boast a wealth of experience within senior management and fabricators manufacturing from our 40,000 sq. ft. Bristol base. We employ over 50 staff and pride ourselves on our industry knowledge and helpful approach to our customers. We are well placed to provide your company with quality manufactured aluminium glazing systems at competitive prices.

Secure orders without disrupting your normal workload.
A strictly trade only supplier our service is perfect for glazing companies who only produce PVCu and do not wish to lose out on any aluminium enquiries they receive. Our service also benefits organisations that are at factory capacity so they can secure an order without disrupting their normal workload.

“BE NICE TUH SEE THEE ME BABBER”
Colin Morgan, Sales Manager

We would be delighted to welcome you here in Bristol to see for yourself our operation in full flow and how we might be able to assist your business. You will see the fabrication facilities spread over 4 adjoining units and meet the team you will be dealing with.
OFFER ALUMINIUM AS AN OPTION

Aluminium has long been fighting its way back into the domestic market.

With superbly efficient thermal barriers, slim sight lines and the materials inherent strength, Aluminium is making quite an impact with today’s home owners. Aluminium is the first choice for Bi-Folding doors and given the full range of RAL colours available, high-quality aluminium windows are now a popular choice.

We have a fleet of vehicles including 3 especially commissioned curtain sided trucks which have been built to carry our finished goods safely. We believe that the best option to deliver your finished items is for us to deliver them personally, that’s why 90% of deliveries are made on our own vehicles by our own drivers. Deliveries can be made to your premises or to the site address. Every vehicle is tracked which enables our customers to be updated on arrival day.

“CHEERS DRIVE”
Lee Meaker, Transport Manager
Innovative designs and a comprehensive range of aluminium windows suitable for the architectural, commercial, public, new build, heritage and retail markets.

Our range includes casements ‘top/side hung, tilt & turn, fixed lights and any combination of these’, sliding and heavy duty. Windows are available externally or internally beaded, open in/out and all with a polyamide thermal barrier giving a high performance thermal efficiency. High security glazing, shoot boltlocking, dual colour options, excellent weather performance ‘BS6375 Parts 1 & 2’, compliance with BS7950 and a choice of ovular, chamfered or square main profiles are just some of the many features of our window systems.

ALITHERM 300 | ALITHERM 600 | ALITHERM 700 | ALITHERM 800
ALITHERM HERITAGE | VS600 VERTICAL SLIDER | ECO-FUTURAL | SLIDE 2000
ALITHERM 300

Featuring an extended Polyamide thermal break which improves the overall U Value of the profile, allowing Alitherm 300 to achieve a Window Energy ‘A’ Rating.

APPLICATION
All general light use applications.

FEATURES
• The system features an extended polyamide thermal break which improves the overall U Value of the profile, allowing Alitherm 300 to achieve a Window Energy ‘A’ Rating when used in conjunction with the correct double or triple glazed unit
• The system is suitable for both internally or externally beaded, side or top hung open out windows
• Profiles have the option of either ovolo, chamfered or square edges
• Frame options for both standard and slim-line stays
• Option of either multi-point or cockspur locking handles.
• Available in single or dual colour, polyester powder coat as standard.

DIMENSIONS
Frame Depth 53mm / 76mm
Glass (double/triple glazed) 24mm / 28mm, 32mm / 36mm
SH Max o’a Width 700mm
SH Max o’a Height 1400mm
TH Max o’a Width 1400mm
TH Max o’a Height 1300mm
ALITHERM 600

An enhanced system designed to comply with the revisions to the Building Regulations Document L 2010.

APPLICATION
All general light use applications including commercial.

FEATURES
- An enhanced system designed to comply with the revisions to the Building Regulations
- Document L compliant
- System can achieve Window Energy ‘A’ Rating
- Profiles feature an extended polyamide thermal break to enhance thermal performance
- Fabrication is by method of crimped or mechanical corners
- Ovolo, chamfered or square profiles
- British Standard Kitemarked system KM 81580, KM 81543
- Available in single or dual colour, polyester powder coat as standard.

DIMENSIONS
Frame Depth 59/70mm
Glass (double/triple glazed) 28-38mm
SH Max o/a Width 1000mm
SH Max o/a Height 1400mm
TH Max o/a Width 1400mm
TH Max o/a Height 1500mm

ALITHERM 600 TECHNICAL PERFORMANCE

WINDOW ENERGY RATING (WER)
1.3W/M²K USING CORRECT SEALED UNIT

DOCUMENT L COMPLIANT

WATER CLASS E, 1200PA

AIR CLASS 4, 600PA

WIND CLASS AE, 2400PA

BRITISH STANDARD: BS7950

PAS: PAS 24:2012
ALITHERM 700

This innovative solution allows for balanced, effective airflow whilst maintaining security and safety and can be side hung or top hung casement as well as top swing reversible.

**APPLICATION**
Commercial applications, suitable for multi-storey.

**FEATURES**
- Alitherm 700 is ideal for insertion into curtain wall facades in both low and high rise commercial buildings
- The system is suitable for use as either replacement windows in existing buildings, or for installation into new builds
- Alitherm 700 incorporates internally beaded vents suitable for either cockspur or shoot-bolt locking.
- The system is also suitable for use with chain-operators, operated individually or as part of an integrated automated solution for building climate control.
- Available in single or dual colour, polyester powder coat as standard.

**DIMENSIONS**
- Frame Depth: 70mm
- Glass (double/triple glazed): 28mm
- PL Max o/a Width: 2000mm
- PL Max o/a Height: 3000mm
- SH Max o/a Width: 838mm
- SH Max o/a Height: 1729mm
- TH Max o/a Width: 1729mm
- TH Max o/a Height: 2000mm
- Rev Max o/a Width: 1500mm
- Rev Max o/a Height: 1558mm

**ALITHERM 700 TECHNICAL PERFORMANCE**

- **AIR**: CLASS 4, 600PA
- **WIND**: 2400PA
- **WATER**: 600PA
- **BRITISH STANDARD**: BS7950
- **PAS**: 24:2012
ALITHERM 800

One of the highest thermal performance windows available, incorporating high performing gaskets to achieve a Window Energy ‘A’ Rating.

APPLICATION
All general light/medium use applications including commercial and residential.

FEATURES
- Highest thermal performance window suitable for all general use applications
- Will achieve U Values under 1.6w/m²K when used in conjunction with correct double glazed sealed unit
- Alitherm 800 windows achieve a Window Energy ‘A’ Rating
- Extended chambered polyamide thermal breaks provide excellent thermal performance
- British Standard Kitemarked system KM 81580, KM 81543
- Available in single or dual colour, polyester powder coat as standard.

DIMENSIONS
- Frame Depth: 70mm
- Glass (double/triple glazed): 24mm / 28mm
- SH Max o/a Width: 700mm
- SH Max o/a Height: 1400mm
- TH Max o/a Width: 1400mm
- TH Max o/a Height: 1300mm

ALITHERM 800 TECHNICAL PERFORMANCE

- WINDOW ENERGY RATING (WER)
  - A
  - 1.3W/M²K USING CORRECT SEALED UNIT
- DOCUMENT L COMPLIANT
- WATER CLASS E, 1050PA
- WIND CLASS A5, 2000PA
- BRITISH STANDARD: BS7950
ALITHERM HERITAGE

Perfect window solution for heritage applications where planners demand a like-for-like replacement.

APPLICATION
Listed building renovations and replica refurbishment projects where planning constraints should be considered. Designed to be built as a series of horizontal modules which can be stacked using couplers to form a multi-part window.

FEATURES
• Polyamide thermal break provides enhanced thermal performance
• Designed as a direct replacement for steel windows
• Will achieve U Values under 1.5w/m²K when used in conjunction with correct double glazed sealed unit
• Alitherm Heritage windows achieve a Window Energy 'B' Rating
• Available in single or dual colour polyester powder coat as standard.

DIMENSIONS
Frame Depth 47mm.
Glass (double/triple glazed) 24mm / 28mm, 32mm / 36mm.
SH Vent Max o/a width 700mm
SH Vent Min o/a width 300mm
SH Vent Max o/a height 1400mm
Maximum Vent weight 40kg
TH Vent Max o/a width 1400mm
TH Vent Max o/a height 1300mm
TH Vent Min o/a height 275mm
Maximum Vent weight 35kg

ALITHERM HERITAGE TECHNICAL PERFORMANCE
The VS600 incorporates the traditional styling of sash windows with all of the advantages of a modern thermal aluminium profile.

**APPLICATION**
A traditional sash window used in heritage and conservation areas where Georgian and Victorian architecture is prominent. The ease of operation and excellent natural ventilation rates mean that the VS600 is also suited to high occupancy buildings. Often used in schools and hospitals.

**FEATURES**
- Flush opening with no projection into or out of the building
- Features a tilt and turn operation that facilitates cleaning of the external glass
- Low line glazing gasket which accepts 28mm sealed units
- Can achieve U-Values of 1.6W/m2k
- WER B rating
- Concealed drainage and concealed coupling option
- Single colour finish only

**DIMENSIONS**
- Frame Depth: 126mm
- Glass (double glazed units): 28mm
- Max o/a Width: 1600mm
- Max o/a Height (equal split): 2800mm
- Min o/a Width: 725mm
- Max o/a Weight (per sash): 50kg

**VS600 TECHNICAL PERFORMANCE**

- **WINDOW ENERGY RATING (WER)**: B
- **DOCUMENT L COMPLIANT**
- **WATER CLASS 7A, 300PA**
- **AIR CLASS 5A, 200PA**
- **WIND CLASS A4, 1600PA**
ECO-FUTURAL

A versatile range of high performance commercial windows suitable for use as both tilt & turn, pivot casement and fixed and open out casement windows.

APPLICATION
Commercial windows suitable for all: commercial, retail, residential, public, health care and educational applications.

FEATURES
- Aluminium profiles feature chambered polyamide thermal breaks that provide excellent thermal performance.
- Suitable for open in tilt turn, top or side hung casements, pivot and fixed and open out casement windows
- Fully concealed hinges available
- Weather tested to BS 6375 Part 1:2009
- Security tested to BS 79750:1997
- Available in single or dual colour, polyester powder coat as standard.

DIMENSIONS
- Frame Depth 65mm
- Glass O/F 4-51mm
- Sash 13-60mm
- Tilt Turn Max Width 1700mm
- Tilt Turn Max Height 2400mm
- Tilt Turn Max Weight 90kg
- Pivot Max Weight Horizontal 180kg
- Pivot Max Weight Vertical 120kg

ECO-FUTURAL TECHNICAL PERFORMANCE

1.4W/M²K USING CORRECT SEALED UNIT
AIR CLASS 4, 600PA
WIND CLASS AE, 2400PA
WATER CLASS E, 900PA
BRITISH STANDARD: BS7950
BRITISH STANDARD: BS6375
SLIDE 2000

Ideal for projects where increased ventilation is required and perfect for external serving hatches. also a solution in schools where an open sash is required that does not project and create an obstacle.

APPLICATION
The system is suitable for horizontal sliding windows for light commercial use.

FEATURES
• Dual or triple track options
• Slim line profiles
• Attractive bullet-nosed meeting style option
• Polyamide thermal break provides
• Enhanced thermal performance multi-point locking, one piece lock keep that offers enhanced security
• Polyester powder coat as standard.

DIMENSIONS
- Frame Depth: 90mm
- Glass: 24mm/28mm/32mm
- Max sash o/a height: 2000mm
- Max sash weight: 200kg

SLIDE 2000 TECHNICAL PERFORMANCE

- 1.0W/M²K USING CORRECT SEALED UNIT
- AIR CLASS 4, 600PA
- WIND CLASS C5, 2000PA
- DOCUMENT L COMPLIANT
- WATER CLASS E900, 900PA
DOORS

Suitable for the architectural, commercial, public, new build and retail markets including commercial hinged as well as swing, patio, slide folding, multi-track slide and automatic.

Our doors are designed for use as open out or open in, single or double doors, internally or externally beaded with sidelight options for both domestic and commercial applications. Doors are available with polyamide thermal barrier giving high performance thermal efficiency. High security glazing, locking mechanisms including security deadlock and hook bolts; dual colour options and excellent weather performance are just some of the many special features available.

ALITHERM PLUS | VISOFOLD 1000 | VISOLINE | VISOGLIDE PLUS | SLIDE 2000
ULTRAGLIDE ECO-FUTURAL | DESIGNER DOORS | TONGUE & GROOVE DOORS
ESCAPE DOORS
ALITHERM PLUS

A robust, domestic entrance door which is suitable for light commercial installations.

APPLICATION
Provides a robust solution for both commercial and domestic use.

FEATURES
• With adjustable hinges, lock keeps and also incorporating additional sash passing clearance which allows for useful on-site fitting tolerances
• Includes an option of multi-point locking with additional top & bottom shoot-bolts.
• Double doors feature dual lock mechanisms enabling handles on both sashes.
• Internally beaded for open in and open out doors.
• Profiles are contemporarily styled with a modern, square-edge design.
• Low thresholds comply with Document M building legislation.
• Z/T sash sections allow for greater coverage and weather resistance.
• Tested in accordance with the requirements of BS 6375 Pt1.

DIMENSIONS
Typical Sight Line  47mm
Glass  24-32mm
Max o/a Height  2400mm
Max o/a Width  900mm
Max Sash Weight  80kg

ALITHERM PLUS TECHNICAL PERFORMANCE

SIGHTLINE 47MM
1.7W/M²K USING CORRECT SEALED UNIT
DOCUMENT M COMPLIANT
WATER 600PA
BRITISH STANDARD: BS6375 PT 1
AIR 600PA
WIND 1200PA

PAS:
24.2012
VISOFOLD 1000

The Visofold 1000 is a hugely popular door system incorporating a choice of either flat or rounded edge door profiles giving the designer the choice.

APPLICATION
The system is suited for residential applications and general light use.

FEATURES
- Attractive, slim-line profiles offer reduced sightlines
- Profiles available in either square or rounded edge options
- Fabricated using mitred corners
- Lock mechanism available with domestic style 'liftup' handle and an adjustable, one-piece keep
- Manufactured using Smart’s punch tooling
- Available in single or dual colour, polyester powder coat as standard.

DIMENSIONS
Frame Width 102.5mm
Frame Depth 70mm
Typical Sight Line* 132mm
Glass (double/triple glazed) 24 / 28 / 32 / 34 / 36mm
Max o/a Height (per sash) 2500mm
Max o/a Width (per sash) 1200mm
Max Sash Weight 100kg

VISOFOLD 1000 TECHNICAL PERFORMANCE

SIGHTLINE 132MM
DOCUMENT L COMPLIANT
AIR 600PA
WIND 1800PA
WATER 750PA

1.5W/M²K USING CORRECT SEALED UNIT

PAS: 24:2012
VISOLINE DOOR

Beautifully constructed door system with a versatile selection of external flat faced profiles all with internal beading.

APPLICATION
Designed for use as open out or open in, single or double doors, Internally beaded with side-light options for domestic and light/medium commercial applications.

FEATURES
• All applications are internally glazed with square or round edge beads
• Polyamide thermal break allowing dual colour option
• Allows for fully framed or low threshold door sashes.

DIMENSIONS
Frame Depth: 51mm
Glass: 4-38mm
Max o/a Height: 2500mm
Max o/a Width: 1200mm
Max Sash Weight: 160kg

VISOLINE TECHNICAL PERFORMANCE

- **SIGHTLINE 132MM**
- **1.8W/M²K USING CORRECT SEALED UNIT**
- **DOCUMENT L COMPLIANT**
- **WATER 750PA**
- **AIR 600PA**
- **WIND 1800PA**
VISOGlide PLUS

Suitable for use where large opening apertures are required. These dynamic sliding doors maximise light and give stunning unimpeded views.

APPLICATION
The system is suited for commercial entrances and residential applications.

FEATURES
- Designed to improve strength and weather resistance
- Profiles available in either square or rounded edge options
- Fabricated using mitred corners
- Lock mechanism available with domestic style ‘liftup’ handle and an adjustable, one-piece keep
- Manufactured using Smart’s punch tooling
- Available in single or dual colour, polyester powder coat as standard.

DIMENSIONS
- Frame Width  53mm
- Frame Depth  100mm
- Typical Sight Line  83mm
- Glass (double/triple glazed)  38mm
- Max o/a Height (per sash)  2500mm
- Max o/a Width (per sash)  Any size providing under above limitations
- Max Sash Weight  250kg (standard)  200kg (lift&slide)

VISOGlide PLUS TECHNICAL PERFORMANCE

- SIGHTLINE 35MM
- AIR CLASS 3, 600PA
- WATER CLASS 7A, 300PA
- WIND CLASS AE, 2400PA
- PAS: 24:2012
SLIDE 2000

An evolution of the original slide system featuring slim line profiles and minimal sight lines.

APPLICATION
Designed for use as sliding patio doors in residential new build and refurbishment project applications.

FEATURES
• Thermal break offers enhanced thermal performance
• Uses a selection of mitred outer frames featuring a dual or triple track option allowing for 2, 3 or 4 pane doors
• Fitted with a multi-point locking, one piece lock keep that offers enhanced security and ease of fabrication
• Smaller horizontal sliding windows can also be fitted with single point mechanisms
• Offers a solution where applications, such as schools and hospitals, require an opensash that does not project creating an obstruction
• Dual colour profiles available in a wide choice of colour finishes.

DIMENSIONS
Frame Depth 70mm
Glass (double/triple glazed) 24mm / 28mm / 32mm
Max Sash Height 2100mm
Min Sash Width 1000mm
Max Sash Weight 100kg
ULTRAGLIDE

Sliding door system ideal for commercial applications such as car show rooms that require large sash sizes.

APPLICATION
Suitable for commercial applications.

FEATURES
- Profiles are designed with a robust but contemporary styling with attractive square edge sections
- Large Polyamide thermal break provides superior thermal performance
- Available in dual colour from a wide range of standard and non-standard finishes
- U Value 1.6W/m²K when Triple Glazed and 1.7W/m²K when Double Glazed

DIMENSIONS
- Frame Depth: 153-239mm
- Glass: 9-50mm
- Max Sash Width: No max width providing sash within below
- Max Sash Height: 3000mm
- Min Sash Height: 800mm
- Max Sash Weight: up to 400kg
ECO-FUTURAL DOORS

A versatile high performance door system suitable for most applications.

APPLICATION
Suitable for all commercial, retail, residential, public, health care and educational applications.

FEATURES
• Aluminium profiles feature chambered polyamide thermal breaks that provide excellent thermal performance
• Suitable for open in and out applications
• Colour coded hinges available
• Weather test to BS 6375 Part 1:2009 – Pending
• Security test to BS 79750:1997 – Pending
• Available in single or dual colour polyester powder coat as standard

DIMENSIONS
Frame Depth 65mm
Glass (double/triple glazed sealed) 4-51mm
Max Sash Height 2400mm
Max Sash Width (3 hinges) 1200mm
Max Sash Weight (residential) 160kg
Max Sash Weight (commercial) 145kg
Max Sash Weight (commercial w/closer) 115kg

Add 15% to above weights when adding a 3rd hinge

ECO-FUTURAL TECHNICAL PERFORMANCE

1.2W/m²K

AIR

PENDING

WIND

PENDING

DOCUMENT L

COMPLIANT

WATER

PENDING
ESCAPE DOORS

Make sure you supply a certified product.

APPLICATION
Suitable for commercial and residential applications.

FEATURES
Pedestrian door sets for escape routes in respect of EN 14351–1:2006+A1:2010

It is a requirement under these standards that manufacturers must supply a publicly available Declaration of Performance to EN 14351 and prove that the panic hardware chosen conforms to the requirement for safe escape.

Nova has a specific Factory Production Control in place (FPC) that fully complies with the requirements of EN 14351.

GET A QUOTE TODAY

Speak to one of our sales team today to discuss your escape door requirements on 0117 955 6463 or email glazing@nova-aluminium.com
TONGUE AND GROOVED DOOR PANELS

The T & G door panels from Nova gives any entrance an alternative look from the usual manufactured panels available.

Panels are created by using the panel plank which at 100mm can be used horizontally, vertically and even diagonally. Designed for use with the Alitherm Plus door all profiles have a polyamide thermal barrier which gives a high performance thermal efficiency and creates an extremely robust door panel.

Planks can be used as a full door panel giving a spectacular visual or can incorporate mid rails to half glaze or just to alter the panel design. Panels can be powder coated or if desired can be finished in a variety of wood effect colours to replicate traditional slatted wooden doors.

GET A QUOTE TODAY

Speak to one of our sales team today to discuss your requirements on 0117 955 6463 or email glazing@nova-aluminium.com
DESIGNER DOORS

New designer door choices from Nova that tick all the options.

The collection consists of 4 different ranges amounting to 40 separate doors, each giving their own unique finesse which allows you to acquire an entrance door to suit any style of home. These beautifully crafted doors are available in a wide range of designs to suit all types and style of homes. Colours can be chosen from the comprehensive selection of finishes from Smart Aluminium’s Sensation and Cotswold ranges. Dual colour options are also available. A choice of high quality door furniture is offered from classic traditional to ultra-modern designs giving the perfect finishing touch to every installation.
SPECIFICATIONS

All of our designer doors are manufactured to the highest specification and include the following as standard:

Profiles include a polyamide thermal barrier for enhanced performance with doors reaching a ‘U’ Value ranging from 0.9W/m2K to 1.1W/Mk dependant on glass specification.

66mm triple glazed, laminated glass units.

Double-rebated EPDM centre gaskets providing maximum weather protection.

3 adjustable hinges resistant to 80kg of pressure.

Adjustable hinges and lock

10-point high security locking.

Hardened Stainless steel pins with picking protection providing anti-tamper security.

Upper and lower locking pins shaped conically for proficient closure.

Laser cut key profile system eliminates the use of any unauthorized keys.

ISEO R7 cylinder, anti-bumping and placed 60mm from the frame giving the highest security and allowing easy opening.
THE TRADITIONAL RANGE

5 choices from that recreate the old-style grace of the Edwardian, Georgian and Victorian eras adding a touch of old fashioned class with high quality modern performance.

THE VINTAGE RANGE

The two doors available from the Vintage Range capture the classic style of the 1920s and 1930s perfectly.
THE MODERN RANGE

The largest range in the collection has 28 styles offering a contemporary opening suited to new homes and apartments.
THE COTTAGE RANGE

A selection of 5 designs make up the cottage options each designed to capture the timeless style of traditional village and country homes.

Coleford  Churchill  Purton

Somerton  Axbridge
A secure 10-point locking system to give you and your family that peace of mind.

In developing the new Designer Doors range, your safety and peace of mind have been at the heart of all our design decisions. We specified the best materials and selected only the highest quality fittings to ensure that your new door provides a high level of security. Here are some of the features that are incorporated into each Designer Door.

- Door sashes sit flush internally and externally with the outer frame for an elegant finish.
- A high security 10-point lock and escutcheon plate system, with drill proof ‘anti-bump’ cylinder, is fitted as standard.
- Hardened stainless steel and picking protection pins provide tamper-protection.
- An integrated, enclosed glazing panel prevents the need for glazing beads – which provides maximum protection against ramming and forced entry.
- ‘Block door’ construction incorporates a totally hidden sash and fixing system for added security.
- Horizontal key has a cross groove in the core which can only align with the 10-point spring-loaded pin pairs within the lock.
- The lock body is encased and protected by the hidden door sash and external aluminium skin, creating an additional 5mm aluminium external wall.

SECURITY
FINISHING TOUCHES

Our design team selected a range of door furniture that would match the quality and performance of the Designer Door, while at the same time complementing its elegant good looks. The range spans from traditional to ultra-modern design, with lots in between, enabling you to carefully select the right accessories to complement your chosen door style.
CURTAIN WALL

The fabrication of Curtain Walling is an operation which Nova Aluminium prides itself on. A designated 6000 sq. ft of our factory has been geared specifically for its production.

The MC 600 system boasts a comprehensive range of profiles giving designers the ability to create striking facades for small or large multi-storey buildings. Swift on-site installations are the hallmark of this versatile polyamide thermal break system, which accepts all of Nova’s vast range of windows and doors.
MC 600

Create impressive, practical and economic glazed facades as a solution for both small and large scale multi-storey commercial buildings and ground floor treatment.

APPLICATION
The system is suited for small and large commercial buildings.

FEATURES
- Designed with efficient fabrication in mind
- Interchangeable transom/mullion profile allowing fabricators to use the same section for both purposes
- Depending on requirements can either be assembled on-site as a stick built system, or alternatively part assembled in the factory
- Can incorporate Nova’s window and door inserts
  Successfully tested to the CWCT standard for building envelope systems.

DIMENSIONS
- Typical Sight Line: 55mm
- Glass: 24mm / 28mm / 32mm

MC 600 TECHNICAL PERFORMANCE

- 1.4W/m²K depending on design
- Air: 600PA
- Document L compliant
- Water: 600PA
- Wind: 2400PA
COMMERCIAL ENTRANCES

Ready to install aluminium shopfronts are available at extremely competitive prices.

When utilising the stock finishes of silver anodised or white powder coat paint orders can be produced in rapid turnaround schedules. Nova can accommodate all the requirements for ground floor treatments including various sightline options, anti-finger trap stiles, overhead concealed transom closers and either thermally or non thermally broken. Available in stock colours and any RAL colour to order the Nova Aluminium shopfront service is second to none.

SHOPLINE | SMARTWALL | LOUVRE PANELS | FLAT FACE PANELS
SHOPLINE

Designed to be robust, our shopfront system will withstand heavy traffic in commercial buildings such as high street shops, office buildings, health clubs and many others.

APPLICATION
Designed for all ground floor treatments and severe duty doors.

FEATURES
- Stylish and practical
- Accommodates all Nova’s windows and horizontal sliders
- Offers various sightline options to the head, midrail and cill detail
- Anti finger-trap stiles and concealed transom closers.
- Doc. M compliant thresholds.

DIMENSIONS
- Frame Width: 50mm
- Frame Depth: 100mm
- Typical Sight Line*: 50mm
- Glass (single glazing): 6-12mm
- Glass (double glazing): 24-28mm
SMARTWALL

Smart Wall is a thermal shop front screen and door system suitable for all types of ground floor treatment where enhanced thermal performance is required.

APPLICATION
Ideal for use in schools, colleges and other educational buildings.

FEATURES
- Thermally broken, heavy duty doors and screens
- Achieves U value 1.8W/m²K
- Security grade 6 locking mechanism
- Locking bolt withstands 10kN side load
- Swing, hinged & automatic commercial entrance doors and ground floor treatment
- Fully rebated swing door with anti-finger trap
- Internally beaded sash
- Polyester powder coat to marine quality as standard

DIMENSIONS
- Frame Width: 53mm
- Frame Depth: 100mm
- Max Sash Height: 2500mm
- Max Sash Width: 1150mm
- Max Sash Weight: 80kg

SMARTWALL TECHNICAL PERFORMANCE

1.8W/m²K FOR DOORS
1.4W/m²K FOR WALL SCREENS

DOCUMENT L COMPLIANT
WATER 600PA
AIR 600PA
WIND 2400PA

BRITISH STANDARD 1627&6375

PAS 24:2012 SECURITY PERFORMANCE
LOUVRE PANELS

All types of commercial and domestic areas that require a good source of ventilation will benefit using our aluminium louvred doors.

Fabricated louvred panels can be glazed into all of our door systems with glazing facilities to suit both 24mm and 28mm applications. Historically louvre doors have been commissioned for use with bin housings and boiler rooms to maintain a level of clean air and give adequate extraction of fumes. Today louvre doors are now frequently being used for a number of uses such as computer server rooms which need to remain secure but also allow for air flow.

**Louvred doors can be fitted with all the usual hardware and can be powder coated to any required finish.**

FLAT FACE PANELS

Our flat faced aluminium glazing panels are a perfect choice for commercial entrances when only half glazed doors are required.

Panels are manufactured ready for glazing to suit all of our systems in all glazing thicknesses. Panels are put together using a solid warm core interior which is sandwiched between two aluminium sheets both at 2mm in thickness.

**Panels are powder coated to the desired finish and simply glazed into the system as usual.**
**WHAT MAKES A GREAT SHOPFRONT?**

*A visual guide to just what makes our ready made shopfronts such a good choice.*

1. **COLOUR**
   - AVAILABLE TO ORDER IN ANY RAL COLOUR
   - COLOUR CODED LOUVRE PANELS
   - COLOUR CODED SEALANT

2. **HANDLES**
   - PAD HANDLES / D HANDLES / POLE HANDLES

3. **PANELS**
   - HIGH PERFORMING COLOUR CODED ALUMINIUM PANELS OR LOUVRE PANELS AVAILABLE

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**FULLY CE COMPLIANT ESCAPE DOORS**

*MANUFACTURED TO (EN14351-1:2006 A1:2010) SEE PAGE 52*
WE DELIVER...

✅ ON OUR OWN VEHICLES
✅ BY OUR OWN DRIVERS
✅ TO YOUR PREMISES
✅ OR TO YOUR SITE(S)

ON OUR OWN VEHICLES
BY OUR OWN DRIVERS
TO YOUR PREMISES
OR TO YOUR SITE(S)

GLAZING
SINGLE OR DOUBLE
GLAZED OPTIONS
POLYAMIDE BARRIER
OR STANDARD

SAFETY
FULLY CE COMPLIANT ESCAPE
DOORS
ANTI FINGER TRAP AS STANDARD
ANTI FINGER TRAP REBATED
AVAILABLE

OPENING
OVERHEAD CONCEALED CLOSER
FACE MOUNTED CLOSER
BUTT HINGES

LOCKS
HOOK LOCKS
DIGITAL LOCKS
LATCH LOCKS
OTHER PRODUCTS

We have an expert understanding of aluminium extrusions and you will find on page 70 how we can assist in bringing your own extrusion ideas to life.

We have a cosmetic cladding system to encase support posts and for shop fitters PalletWrap is an innovative product for advertising at the bottom of loaded pallets.

NOVACLAD | PALLETWRAP | BESPOKE EXTRUSIONS | RAL COLOURED SILICONE
BESPOKE EXTRUSIONS

We can supply all types of aluminium extrusions - See how Our design team can help you to bring your ideas to life.

Low weight and high strength are two outstanding features why aluminium extrusions are so widely used in industry. Nova has a wealth of experience in the design of aluminium systems and stock holding.

We have assisted and currently stock for customers profile relating to the partitioning, flooring and sign making industries and are well placed to help with ideas for extrusions you may wish to investigate, give us a call and bring your ideas to life.

“GOT AN IDEAL ME OLD MUCKER?”
Paul Vickery, Director

We can help with any extrusion plans you may have from design through to stockholding. Call 0117 955 6463 and talk to our sales team today...
ACCESSORIES

Need some blue silicone to finish off that installation… we can help.

Blue silicone is just one shade available in a range of over 30 colours of professional use silicone suitable for the perimeter sealing of all types of glazing installation.

We stock an array of accessories including all types of handles for both windows and doors, locks, fixings, protection tape, gaskets, shoot bolts and many others. Ask the team how we can help with your accessory requirements.
RAL COLOURED SILICONE

Nova Aluminium colour silicone may be used for sealing construction joints on most surfaces. Suitable for perimeter sealing of uPVC window frames, conservatories, coated wood, aluminium, metal, concrete, plaster and sanitary applications. For interior and exterior use.

DIRECTIONS FOR USE
Surfaces to be sealed must be clean, dry and free from dust, dirt, frost, grease and other contamination. Cut the cartridge tip and applicator nozzle to the required dimension, screw nozzle onto cartridge. Temperature application range between +5°C and +40°C. It is always the user’s responsibility to determine suitability of use. If in any doubt, consult technical data sheet. Wash hands after use.

KEY PROPERTIES
Nova Aluminium colour sealant reacts with moisture, remains permanently elastic, and is non-aging, durable and non-paintable. An application test is recommended prior to use. Do not use for natural stone or aquarium applications.

STORAGE
In a cool, dry environment, product can be stored for at least 18 months from its production date in original, unopened container, at temperatures between +5°C and +30°C.

LIMITATIONS
Do not use for natural stone or aquarium applications. It is always the user’s responsibility to determine suitability of use.

HEALTH AND SAFETY
Safety data sheets available for professional user upon request. Contains methyl, oximino, silane +3-(2-aminoethylamino), propyltrimethoxysilane, +butanonoxyime.

May produce an allergic reaction.
COLOUR CHART

Signal White  
RAL9003

Pure White  
RAL9010

Black  
RAL9011

Marron Brown  
RAL8028

Ochre Brown  
RAL8001

Clay Brown  
RAL8003

Fawn Brown  
RAL8007

Sepia Brown  
RAL8014

Dark Brown  
RAL8016

Oyster White  
RAL1013

Light Ivory  
RAL1015

Cream  
RAL9001

Signal Grey  
RAL7004

Dark Grey  
RAL7004

Iron Grey  
RAL7011

Basalt Grey  
RAL7012

Slate Grey  
RAL7015

Anthracite  
RAL7016

Umber Grey  
RAL7022

Concrete Grey  
RAL7023

Graphite Grey  
RAL7024

Pebble Grey  
RAL7032

Light Grey  
RAL7035

Dusty Grey  
RAL7037

Agate Grey  
RAL7038

Quartz Grey  
RAL7039

Purple Red  
RAL3004

Wine Red  
RAL3005

Blue  
RAL5003

Gentian Blue  
RAL5010

Steel Blue  
RAL5011

Pigeon Blue  
RAL5014

Moss Green  
RAL6005

Fir Green  
RAL6009

Pale Green  
RAL6021

Vert Green  
RAL6200

White Alu  
RAL9006

Pearl Mouse  
RAL7048

MINIMUM ORDER: 25 TUBES

ALSO AVAILABLE IN: TRANSLUCENT, SNOW WHITE

Please note: These colours are simulations of the identified RAL colours. Please refer to your current RAL swatch for accurate colour matching.
Palletwrap is a unique system which allows for repeated advertising around the base perimeter of a standard loaded pallet.

**TRANSFORM YOUR AISLE**
The system allows for changeable advertising cards for when pallets are used as ‘centre aisle’ shelving in store. The system is totally adjustable so as to suit any standard pallet size and can be reused. Corner facilities within the system accept ‘flag’ messages such as offers and pricing.

**HOW TO ORDER YOUR PALLETWRAP SYSTEM**

- **Phone:** 0117 955 6463
- **Phone:** 0117 955 6472
- **Email:** sales@nova-aluminium.com
<table>
<thead>
<tr>
<th>CODE</th>
<th>DESCRIPTION</th>
<th>LENGTH</th>
<th>MILL</th>
<th>SILVER</th>
<th>WHITE</th>
<th>BLACK</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOV 820</td>
<td>Corner Section</td>
<td>4200mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NOV 821</td>
<td>135mm Plank</td>
<td>4200mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACC 820</td>
<td>Plank Clip</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

AVAILABLE IN ANY STANDARD RAL COLOUR TO ORDER
NOVA CLAD

A three part cosmetic extrusion system designed to clad supporting posts up to 335mm in width and any depth.

APPLICATION
The system is ideal for encasing steel structural supports which can look unsightly when simply painted or covered using a formed sheet.

FEATURES
- 3 extrusions lock together to form a D shape and includes a facility using 2mm aluminium sheet as a connector to the mirrored D shape allowing the opportunity to clad most sized columns.
- Can be powdercoated giving a clean clinical finish from top to bottom.
- Posts up to 335mm in width and any depth
- Frame Width – 370mm
- Frame Depth – depending on application
- Extrusion length – 4500mm
- Minimum orders apply
GUARANTEES

We list below the anticipated life expectancy and guarantees (as stated by our suppliers) available on various components.

We would define life expectancy as ‘the period of time a component is expected to perform in accordance with the performance specification’.

Of course, a component that does not perform in accordance with the performance specification will not necessarily result in a failure of the complete works but may reduce the overall level of performance.

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>LIFE EXPECTANCY</th>
<th>GUARANTEE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminium in a Non-Corrosive atmosphere</td>
<td>60 years*</td>
<td>12 years*</td>
</tr>
<tr>
<td>All Furniture/Hardware (Locks, Hinges, etc)</td>
<td>15 years*</td>
<td>1 year*</td>
</tr>
<tr>
<td>Concealed Closers</td>
<td>10 years*</td>
<td>1 year**</td>
</tr>
<tr>
<td>Gaskets</td>
<td>15 years</td>
<td>5 years</td>
</tr>
<tr>
<td>Polyester Paint Finish (Excluding Marine Environments)</td>
<td>25 years*</td>
<td>5 years*</td>
</tr>
</tbody>
</table>

*Subject to Maintenance    ** From date of Manufacture / Subject to Maintenance
1. ESTABLISH THE CUSTOMERS’ REQUIREMENTS

- Is the window or door inward or outward opening? Left or Right Handed?
- Any special specification requirements?
- Any enhancements in respect to security issues?
- Any restriction devices required?
- Wheelchair access?

2. ASSESS THE APERTURE FOR SUITABILITY

- Any defects and deficiencies around the structural opening?
- Any brickwork removal?

3. MEASURING THE APERTURE

- Measurements of width and height should be taken and the squareness of the aperture determined by taking diagonal measurements. The smallest measurement of width and height is used to determine manufacturing sizes.
- Is a sub cill required?
- The difference between internal and external reveal sizes should be determined.

4. CALCULATING THE MANUFACTURING SIZES

- Expansion and contraction should be taken into consideration.
- Allowances should be made with regard to the window or door set and building aperture tolerances.

ALUMINIUM ONLY

Recommended deduction for width or height of structural opening;
- Up to 1.5m = 10mm
- 1.5m to 3.0m = 10mm
- 3.0m to 4.5m = 15mm
- Over 4.5m = 20mm
- These deductions are from the total width or height and are not ‘per side’
- The gap required for effective polyurethane foam fixing at the head is 10mm to 15mm.
- When fitting frames into existing timber sub-frames deduct 4mm.
- Intermediate expansion joints may be required when the width or height exceeds 3m.

5. PERFORMANCE AND SPECIAL REQUIREMENTS

The following should be considered:
Weather tightness/Drainage/Thresholds/ Letter plates/Hardware/Side Panels/ Georgian Bars/Planning Permission/ Risk Assessment/Cleaning Requirements

6. STRUCTURAL LOADING REQUIREMENTS

- When a load bearing situation is suspected or confirmed then it is essential that the system supplier’s recommendations are followed.
- **Bay Windows** – special structural calculations may be necessary.
- **Coupled Windows** – determine the method to be used, taking into account wind and dead loads, visual appearance and position of the coupling
- **Window/Door Lintel** – reasonable steps should be taken to check there is a lintel or other means of support.

7. INSTALLATION – ALUMINIUM WINDOWS AND DOORS

- Wherever practicable all four sides of the frame should be secured.
• Coupled assemblies are usually delivered to site as separate units and should be fastened together in accordance with the manufacturer’s instructions.
• Windows and door sets should be installed plumb and square with the aperture without twist, racking or distortion.
• Frame placement – replacement windows and door sets should be positioned to minimize the amount of making good.
• Open cavities discovered between inner and outer skins of brick or block work should be bridged or closed with an insulating material.
• Installation packers should be used adjacent to fixing positions to prevent outer frame distorting during installation.

8. INSTALLATION – FIXING
There are two principle methods of fixing available, which may be used separately or in combination: through frame fixings and lug fixings. The surveyor is responsible for specifying the nature, location and quantity of the fixings, taking into account the manufacturer’s instructions.
• Imposed loads – each frame member should be fixed to the substrate or to an adjacent window or door set.
• Fixing Considerations – presence or absence of a wall cavity/the nature of any cavity/the relative position of the frame and the cavity/position of the plaster line/ design of the reveal/any requirements for fire resistance.
• Foam Fixing should under no circumstances be used as the sole method of fixing the entire frame into the reveal, but can be a useful adjunct to mechanical fixings.
• Lug fixing – a twist in lug anchor can be installed into the outer frame then the lug is connected to the sub structure.

9. INSTALLATION – GLAZING
• Inspection – all insulating glass units should be examined for damage prior to installation.
• Installation – all accessories should be installed in accordance with BS8000-7.
• Insulating/Safety Glass units should be orientated with the safety glass on the appropriate side; it is a legal requirement that the marking on the safety glass remains visible after installation.
• It is essential that units are toe and heeled correctly to ensure that the opening and closing operations are not hindered.

10. INSTALLATION – SEALING
• The purpose of the perimeter sealants is to repel water and prevent air leakage in the face of differential movement between the aperture and the window or door set.
• Sealant type – should be tested and classified in accordance with BS EN ISO 11600.
• Considerations – perimeter joints should be sealed with the sealant compatible with the frame material and the substrate.
• Sealant Backing – Sealant should be applied against a firm backing so that it is forced against the sides of the joint during application.
• Trims and Pressings should be compatible with the material of the frame and should be colour matched where specified.

11. INSTALLATION – COMMISSIONING
After installation a final inspection should be carried out, preferably accompanied by the purchaser. It is essential that the user is made aware of the operation of the window or door set. It is good practice to have the purchaser sign off the inspection after the inspection has been passed.
CLEANING & MAINTENANCE

Cleaning, Maintenance and Repair Procedure for Organic Paint Coatings (Acrylic and Polyester) on Aluminium Windows, Doors and Architectural Products

CLEANING AND MAINTENANCE

- In areas within the direct influence zones of salt water, industrial chemical plants, blast furnaces or other aggressive emission sources, the window should be cleaned at least every three months. In a relatively cleaner environment every six months should be sufficient.

- In carrying out regular maintenance outside, the internal surfaces are frequently neglected. After a period of time, grime and deposits from tobacco smoke, coal and oil fires etc. can discolour the inside of the window frame and it is recommended that these should be cleaned at least once per year.

PROCEDURE

- Wash down with clean warm water containing a non-alkaline liquid detergent (in a concentration which can be handled safely with bare hands) using a non-abrasive cloth, sponge or soft bristle brush. This will remove grime, grease and excess chalking. All ridges, grooves, joints and drainage channels where salt or other deposits can collect should be well washed out, thus preventing corrosion sites from occurring.

- Rinse thoroughly with clean water and then dry using a soft cloth or leather

- Where a reduction in gloss is observed, chalking is evident or excessive staining has occurred, then an approved renovating cream may be applied with a non-abrasive cloth. N.B.T-Cut or similar automotive paint restorer may be used provided it is not too abrasive.

- Care must be taken not to abrade sharp corners of section or arise of beads too heavily where the paint film is normally thinner, and it should be remembered that this operation should not be carried out too frequently. Polish with a soft cloth to restore gloss and colour uniformity.

- For extra protection a wax polish can be applied once or twice a year again polishing with a soft cloth to restore gloss.

POINTS TO BEAR IN MIND WHEN SPECIFYING ORGANIC COATED ALUMINIUM

- No organic paint coating, whether polyester or acrylic is “maintenance free” and that especially when installing in coastal districts or areas with high industrial pollution, advice should be given at the time of installation regarding the frequency and nature of cleaning maintenance needed.

- Modern organic finishes which we apply to architectural aluminium are practically identical to the types used on motor vehicles and therefore require a similar degree of care and attention which people typically lavish on their car body work.

- The frequency of cleaning typically relates to the decorative standard which the householder wishes to maintain and also the particular environment where the units are situated.

- All paints “chalk” to some extent in service and a reduction in gloss level will occur. The original finish can be easily restored using the procedure listed above.
NOTES

NOVA TELEPHONE – 0117 955 6463
NOVA FAX – 0117 304 1857
NOVA E MAIL – GLAZING@NOVA-ALUMINIUM.COM
NOVA ACCOUNTS – ACCOUNTS@NOVA-ALUMINIUM.COM
NOVA WEB SITE – WWW.NOVA-ALUMINIUM.COM (SCAN QR CODE ON NEXT PAGE)

NOVA OFFICE HOURS:
MONDAY – THURSDAY 8.30 AM - 1.00 PM / 1.30 PM - 4.30 PM
FRIDAY 8.30 AM – 1.00 PM / 1.30 PM - 4.00 PM

NOVA WORKSHOPS HOURS:
MONDAY – FRIDAY 7.30 AM - 1.00 PM / 1.30 PM - 3.45 PM
OUR TEAM

PAUL HARVEY  
DIRECTOR

PAUL VICKERY  
DIRECTOR

COLIN MORGAN  
SALES MANAGER

JASON FORD  
PRODUCTION MANAGER

LEE MEAKER  
TRANSPORT MANAGER

STEPHEN OLIVER  
SALES TEAM

CHRISTIAN SILLICK  
SALES TEAM

BEN MEREDITH  
SALES TEAM

SAM MORRIS  
PRODUCTION TEAM

SHELLEY GODFREY  
ACCOUNTS

KIRSTIN PEARCE  
PURCHASING
DIRECTIONS FROM M5/M4:
Leave M5 at Junction 15 to join M4 eastbound, leave M4 at Junction 19 M32 to Bristol. Stay on the M32 ‘approximately 3 miles’ until you reach the first set of lights. Take the slip road left at these lights. At the top of the road turn left onto the one-way system, turn immediately left into Pennywell road and immediately left into Nova House car park.