

Mondrian CWA-40

Product Information Sheet



Glass

Single Glazed as standard. Can be double glazed.

Glass thickness up to 27mm

Opening Configurations

Available as

WINDOWS

Side Hung / Bottom Hung / Top Hung / Fixed /
Projected Top Hung / Vertically Pivoting window /
Horizontally Pivoting window

DOORS

Sliding door / Sliding Pocket door / Pivot door /
Hinged Casement door / Bi-Folding door
Inward / Outward Opening

Frame

Non-Thermally Broken Mild Steel

Frame Depth 42mm-47mm

Vent + Frame 55mm

Central Meeting Profile 64mm

Finish PPC in any RAL colour / Tinted Lacquers /

Chemically Blackened

Glazing Bars

Integrated glazing bars are optional

True Glazing Bars T muntin bars 29mm

Applied Glazing Bars bespoke

Maximum Sizes

The maximum size of windows/doors is determined by vent weight and the hinge. Below are some examples.

Larger sizes may be available on request.

Side Hung 230kg per vent with three-wing weld on hinge /
55kg + max width 840mm with concealed friction stay

Top/Bottom Hung 180kg with concealed friction stay, max
height 2500mm, opening angle 20°

Lift + Slide up to 400kg per vent

Ironmongery

See page 6 onwards

Performance

See page 2

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Tested Sizes

Opening	Test Reference Size	Air Permeability (EN)	Water Tightness	Resistance to Wind
Fixed	1500mm wide x	Class 4	Class 6A/7B	Class C5 (2000Pa)
Fixed	1975mm wide x	Class 4	Class E900	Class C5 (2000Pa)
Side Hung, Open In, Single Leaf	750mm wide x 2200mm tall	Class 4	Class 6A/7B	Class C5 (2000Pa)
Side Hung, Open In, Double Leaf	1500mm wide x 2200mm tall	Class 4	Class 6A/7B	Class C3 (1200Pa)
Bottom Hung	750mm wide x 2200mm tall	Class 4	Class 6A/7B	Class C5 (2000Pa)
Bottom Hung	1975mm wide x	Class 4	Class E900	Class C5 (2000Pa)

Other Opening Types / Sizes

Please note that these above sizes are not the only opening types or the maximum sizes, these are simply the tested sizes to achieve the corresponding weather performance.

Larger opening sizes are available to achieve taller, wider and heavier window and door leaves.

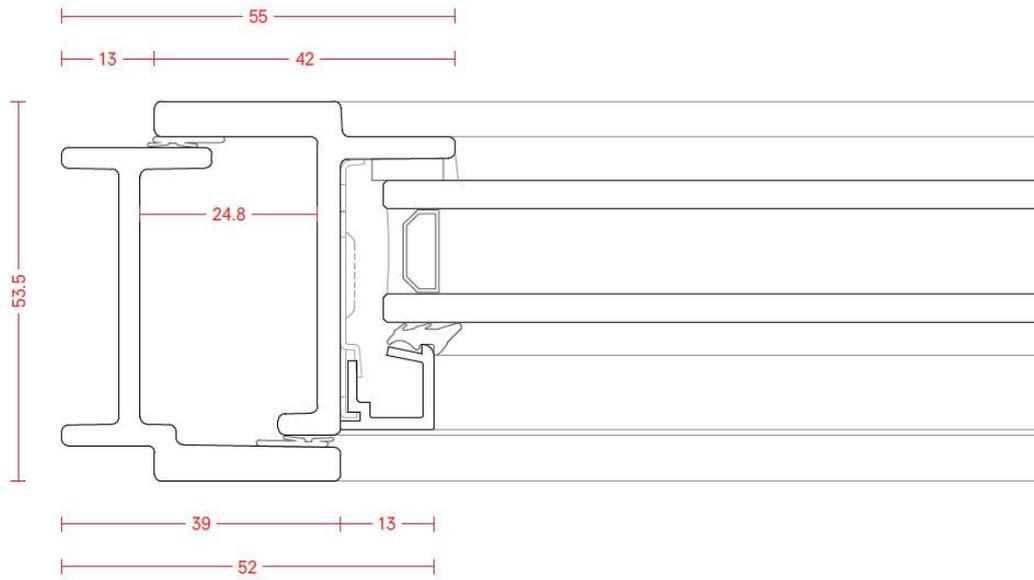
As the CWA-40 system is a non thermally broken system most installations will be internal applications. Therefore there is more freedom available to opening configurations as they do not need to be tested for weather tightness.

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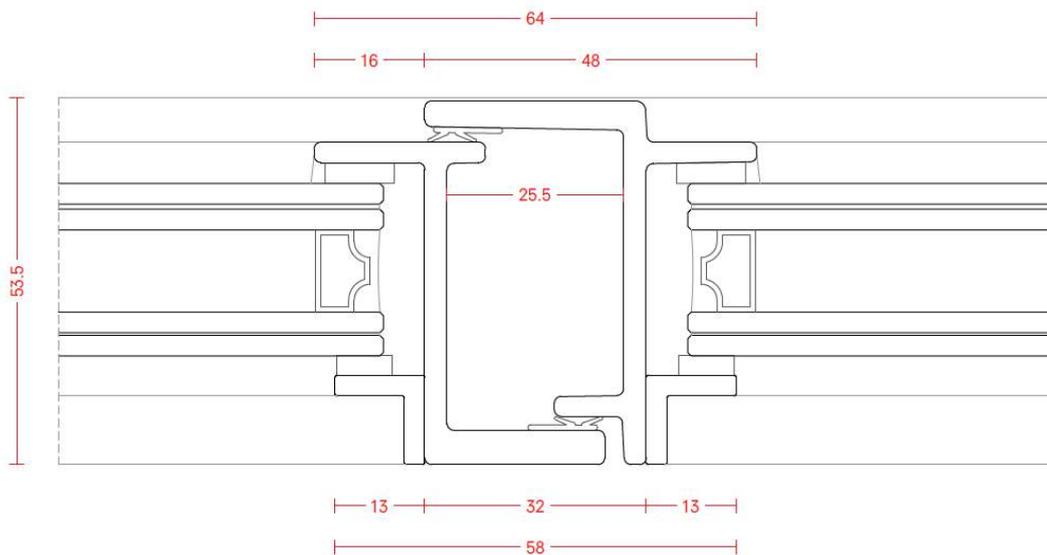
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Framing Profiles

Vent + Frame Profile



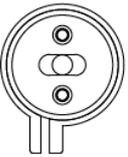
Central Meeting Profile



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Hinges

Hinge	Material	Size	Max. Weight	Image
Weld On, Two Wing	Mild Steel	60mm tall x \varnothing 10mm	38kg	
	Mild Steel	100mm tall x \varnothing 14mm	80kg	
	Mild Steel	120mm tall x \varnothing 16mm	100kg	
	Mild Steel	1400mm tall x \varnothing 16mm	140kg	
Weld On, Three Wing	Galvanised Steel	80mm x \varnothing 12mm	100kg	
	Galvanised Steel	140mm x \varnothing 12mm	230kg	
Weld On, Two Wing, Adjustable	Mild Steel	122mm tall x \varnothing 16mm	160kg	
Screw On	Natural Brass	70mm tall x \varnothing 22mm	50kg	
	Natural Brass	85mm tall x \varnothing 12.5mm	80kg	
	Natural Brass	50mm tall x \varnothing 12.5mm	50kg	
Pivot Hinge, Horizontal	Natural Brass		70kg	

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Friction Stays

Friction Stay	Material	Sash Height/Length	Max. Weight	Opening Angle
Vertical Friction Stay	Stainless Steel AISI 316L 2B	270-640mm	40kg	50°
	Stainless Steel AISI 316L 2B	640-800mm	50kg	50°
	Stainless Steel AISI 316L 2B	800-1100mm	65kg	50°
	Stainless Steel AISI 316L 2B	600-1100mm	100kg	30°
	Stainless Steel AISI 316L 2B	1100-1500mm	100kg	45°
	Stainless Steel AISI 316L 2B	1500-2000mm	100kg	20°
	Stainless Steel AISI 316L 2B	2000-2500mm	180kg	20°
	Horizontal Friction Stay	Stainless Steel AISI 316L 2B	300-600mm	22kg
Stainless Steel AISI 316L 2B		400-700mm	24kg	90°
Stainless Steel AISI 316L 2B		300-660mm	38kg	85°
Stainless Steel AISI 316L 2B		450-840mm	55kg	60°

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Handles

Lever Handle for Open In Windows



With / without key

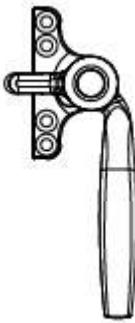
Finishes

- Satin Chrome
- Satin brass
- Polished Brass
- Antique Nickel

Heritage Handle for Open In/Out Windows



Straight



Arched



Curved



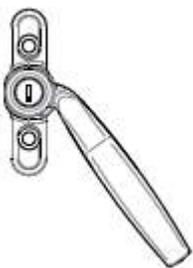
Scroll

With / without key

Finishes

- Satin Chrome
- Brushed Copper
- Dark Bronze
- Matt Black
- Oil Rubbed Bronze
- Gun Metal

Cremone Handle for Open In/Out Windows



Curved
Rotation 90°



Arched
Rotation 90°/
180°

With / without key

Finishes

- Satin Chrome
- Dark Bronze
- Matt Black
- Gun Metal

Designer Cremone Handles



100 / 125mm



100mm

Finishes

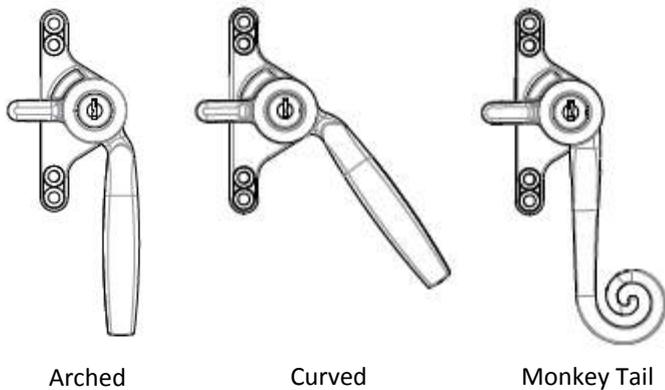
- Satin Black
- Stainless Steel
- Satin Stainless Steel
- Satin White
- Stainless Steel

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Product Information Sheet

Handles

Handle for Open In/Out Windows with Multipoint Locking Rods



With / without key

Finishes

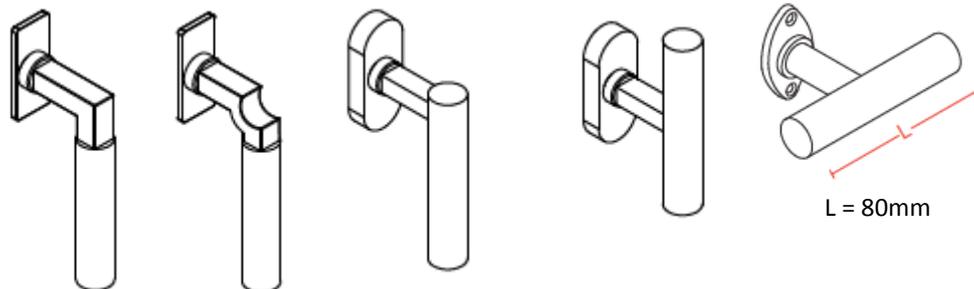
- Satin Chrome
- Dark Bronze
- Matt Black
- Gun Metal

Arched

Curved

Monkey Tail

Handles for Tilt / Turn Windows



Finishes

- Polished Nickel
- Satin Nickel
- Polished Brass
- Satin Brass
- Dark Bronze
- Polished Chrome

112mm

122mm

80mm

80mm

L = 80mm

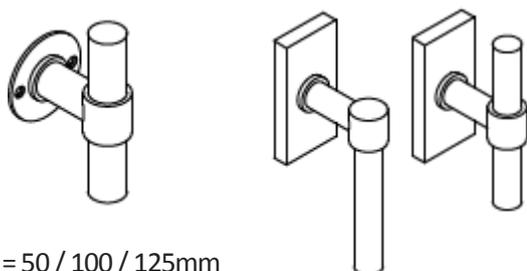
With square /
rounded / no
plate
With / without
key

With square /
rounded / no
plate
With / without
key

With rounded /
no plate

With rounded /
no plate

Designer Handles for Tilt / Turn Windows



L = 100mm
 $\varnothing = 15 / 20$ mm
 With 12mm square / 29mm
 square / rounded back

Finishes

- Satin Black Stainless Steel
- Satin Stainless Steel
- Satin White Stainless Steel

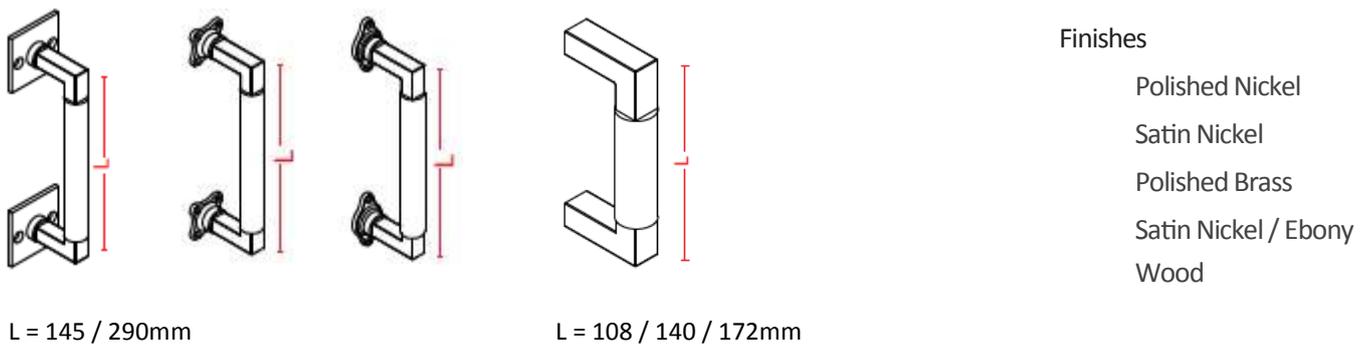
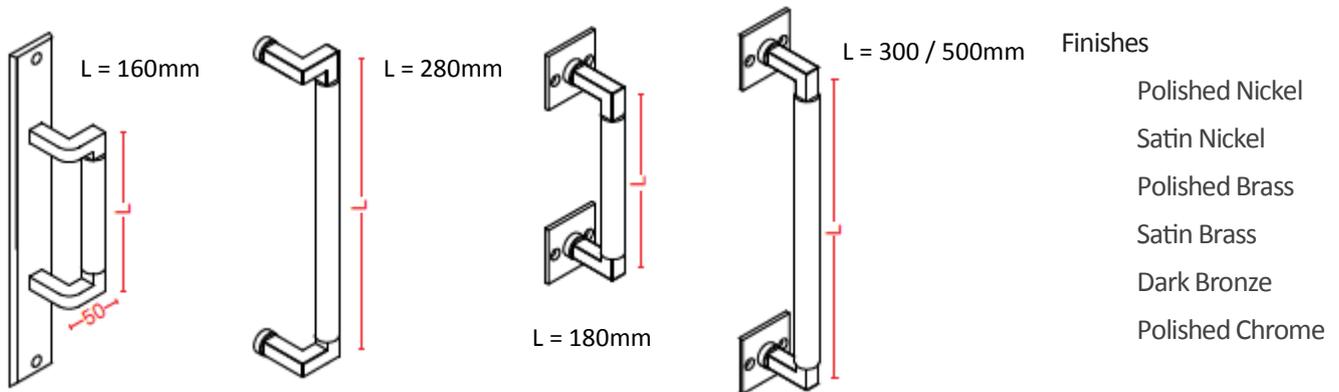
L = 50 / 100 / 125mm

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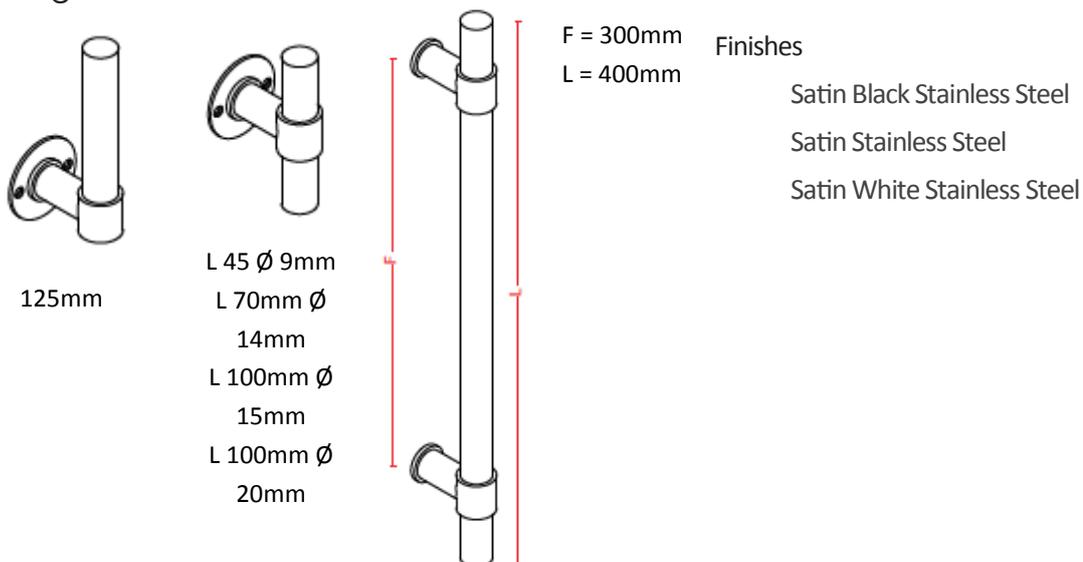
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Handles

Pull Handles



Designer Pull Handles

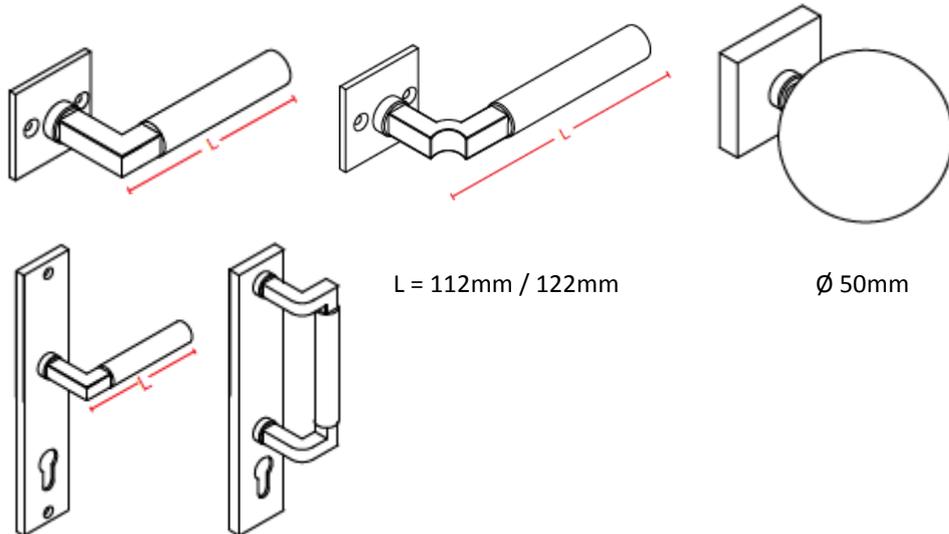


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Product Information Sheet

Handles

Lever Door Handles

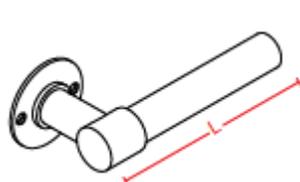


With / without key

Finishes

- Polished Nickel
- Satin Nickel
- Polished Brass
- Satin Brass
- Dark Bronze
- Polished Chrome

Designer Door Handles

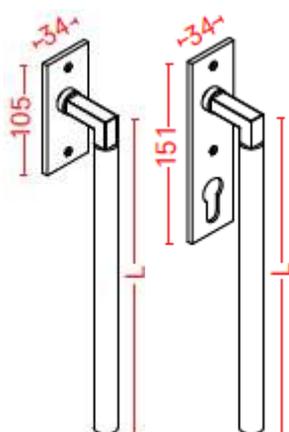


L = 100 / 125mm

Finishes

- Satin Black Stainless Steel
- Satin Stainless Steel
- Satin White Stainless Steel

Handles for Lift + Slide Doors

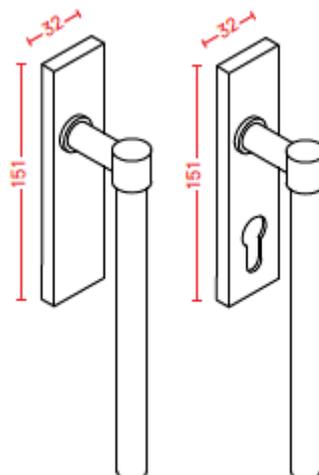


L = 275mm

Finishes

- Polished Nickel
- Satin Nickel
- Polished Brass
- Satin Brass
- Dark Bronze
- Polished Chrome

Designer Handles for Lift + Slide Doors



L = 232mm

Finishes

- Satin Black Stainless Steel
- Satin Stainless Steel
- Satin White Stainless Steel

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Mondrian at the Showroom

Various installations of the Mondrian Range are available to view at the Sky House Design Centre, home to IQ.

To make your personal appointment to view the Mondrian Range just contact the team at IQ who will be happy to book your personal appointment with a technician.



Materials + Finishes

Each installation of Mondrian at the Showroom is finished in a different material and finish to showcase the broad range of design available. As well as built structures in numerous finishes we also have a large material wall with even more framing finishes available to view and touch.

Window + Door Configurations

At the showroom we are showcasing the Mondrian systems in a range of opening types including doors, fixed glazing, pivot windows and side hung elements.

Additional Samples

In addition to the large collection of built examples we have on show we also have a catalogue of additional hand samples. These showcase exactly how the systems go together, where the thermal breaks are and how deep each section is.

Book an Appointment

Contact your sales representative at IQ to book



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How to Specify a Mondrian System from IQ

Mondrian Windows and Doors are first choice for architects and designers all over the UK looking for a high end steel solution for their design. If you would like to specify a Mondrian product for your project just speak to the team at IQ who would be happy to assist.

Speak to the team at IQ

The team at IQ are the experts in our Mondrian product range. If you are considering using a Mondrian product on your project speak to the team at IQ who will be able to advise you on the best solution for your intended design, ensure that all specification criteria are met and advise you on any feasibility areas of the installation you may not have considered.

Get a Quotation

We advise our customers to get a quotation for intended Mondrian installations from IQ. This allows us all to ensure that the preferred product and design is within budget. If it is not we can help you adjust the specification to reach all performance, design and budgetary requirements.

Add us to your NBS Specification

To assist you in specification we have created individual NBS Specification sheets for each Mondrian product. These easy to navigate documents contain all the vital information needed for specification. They are available for your to complete on your own alternatively ask your sales representative at IQ to complete this on your behalf.

Place the Order

When ready you (or your client or the builder) can then place the order for your Mondrian Door or Window with us. A full in house handover will take place and your project will be passed to the contracts and design team. Once your project deposit is placed we will then undertake full design drawings for the Mondrian installation. Please allow at least 20 working days for the design process. The project will be appointed a dedicated contracts manager who will oversee the installation process.

Any Questions?

Contact the team at IQ who will be happy to help.

hello@iqglassuk.com

01494 722 880

Sky House, Raans Road, Amersham,
Buckinghamshire, HP6 6FT

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Finishes + Material Specification

One of the architectural advantages of the Mondrian Range is the broad selection of materials and finishes it is available in. When choosing the material and finish for your Mondrian installation it is important to keep in mind the maintenance, usage and location of the glazing to ensure you select one

Powder Coated Finishes for Steel

Galvanised, Mild and Stainless Steel can all be powder coated to finish the metal in the RAL colour of your choice.

Dry Powder Coating is the most common method. This involves the even application of charged polyester particles to the frame which are then baked to create a coloured seal to the metal frame. Dry Powder Coating may not be suitable for architectural metal works with intricate detailing as the polyester particles will slightly fill in any delicate notches, lines or detailing.

For these more decorative elements of metalwork Wet Powder Coating is better suited. This coloured finish is applied by hand using a wet spray. The process of hand applying the spray may result in slightly different colour thicknesses across the surface of the metal.

Care of Powder Coated Surfaces

If you chip or scratch a powder coated surface you will expose the base material of the metal and create a weak spot in the metal's defences against corrosion. This point is then an area where moisture can penetrate the metal substrate and cause corrosion or oxidisation.

Care must be taken in the handling of metal elements to ensure that no damage is inflicted to the powder coated surface. This applies to the installation process, post installation construction (where other works will be carried out on site) and once the project is completed.

Information regarding the protection and handling of metal profiles and products should be shared with all that may have interaction with the specialist architectural metal installation. This includes other trades, contractors, cleaners and the end user.

Pitting in PPC for Mild Steel Sections

The reason that steel is chosen for a project is because of its industrial style and artisan design. The rustic finish of mild steel profiles is not completely smooth due to the traditional

dye manufacturing process. As a result you may see some visual 'pitting' in the PPC finish on mild steel profiles. This is an inherent part of the industrial steel material. If you are looking for a completely smooth plastic style finish PPC aluminium would be a more suitable solution.

Chemically Blackened Steel

The chemical blackening of steel is a specialist architectural metal finish used to create a dark, matt appearance to steel profiles. It is achieved by hand applying the blackening chemical to the surface of the steel.

Due to the artisan nature of the finish the colour achieved may not be completely uniform across the steel surface. The chemical agent will also react to any differing material thicknesses or compositions in the surface of the steel alloy which could also cause differing colours across the surface.

Chemically blackened steel is only suitable for internal environments in non-swimming pool locations.

Steel Lacquering for External Use

Lacquering of steel or architectural metal can be used in some instances to seal the architectural finish to the metal and reduce the speed of further aging. However, lacquering is only recommended for internal applications in non-harsh environments.

If lacquered steel is installed externally or in harsh environments you may see 'blistering' or other defects in the lacquered surface exposed to the elements.

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Aftercare of Architectural Metal

Architectural metals are a luxury building product and require well thought through aftercare to ensure they stay looking their best throughout their lifetime. We encourage all parties who wish to use architectural metals on their project to take note of the recommended aftercare in the project O+M

Architectural metals are artisan building materials and careful consideration and attention should be taken for their aftercare.

Do not use harsh abrasives or chemicals

Do not use scrubbing brushes or sponges with bristles or rough surfaces

Do not use acidic cleaning products

Clear water with a neutral pH is recommended

Soft wiping with a non-abrasive cloth is recommended

Frames and glass must be fully dried after cleaning

When the glass is cleaned it is important to ensure that all water is dried from the glass surface, in particular in any crevices or corners of the glass where it meets the frame. If this is not done the water may cause corrosion to the profiles.

All parties involved with the maintenance and cleaning of the installations must be given a copy of the O+M manual to ensure proper handling. This includes all external cleaning services, property maintenance and building users.