Frame
Thermally broken aluminium
Vertical Meeting Profile 21mm
Base Frame 38mm (below FFL)
Head Frame 50mm (hidden in building finishes)
Side Frame 38mm (hidden in building finishes)
Frame Depth approx. 60mm per track
Finish PPC any RAL colour

Glass
6/8mm toughened outer / 16mm argon filled cavity
/ 6/8mm toughened inner with low e coating
Available on request Low Iron Glass, Low
Maintenance Coatings, Solar Control Coatings, IQ
Heated Glass, Privacy Glass, Electro Chromic Glass,
Coloured/Decorative Interlayer (available on small
sizes), Acoustic Interlayer (available on small sizes),
Anti Reflective Glass
Glass thickness up to 34mm

Maximum Size
8.5m² per sliding pane
Maximum Height 4m
Maximum Weight 500kg for manual opening, panes
over 500kg with automation

Locking
There are four locking options for the minimal
windows® sliding system:
1. manual internal locking via thrust lever handle
2. manual internal locking via removable key
3. electromagnetic locking
4. external key locking (not suitable for every
configuration)

Ironmongery
Sliding Rails stainless steel
Sliding Wheels stainless steel, in paired carriages
within each sliding pane, minimum of 2 carriages,
additional carriage for every 100kg of weight

Performance
Air Permeability Class 4 to EN12207
Water Resistance 7A to EN12208
Resistance to Wind Load C4/B5 to EN12210
Thermal Performance Uf value 3.2 W/m²K, achieves
approx. Uw value of 1.5 W/m²K depending on
configuration and glass spec.

Optional
Ventilation via slot aeration system
Integrated Drainage with IQ flush threshold drain

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Sliding Configurations Examples

linear sliding panes up to 4 tracks, left/right sliding
Bi parting possible with either 21mm or 95mm meeting stile
Opening Corners 65 to 177° opening
Pocket Doors 1 to 4 tracks
Juliet Balconies with integrated frameless balustrade

More sliding configurations are possible, these are just examples of some of the options:
**Typical Details**

**Horizontal Section of Coupling**

**Vertical Section of Head Frame, two track**

**Horizontal Section of Side Frame, two track**

### Track Depths

<table>
<thead>
<tr>
<th>Track Type</th>
<th>Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>One Track</td>
<td>60mm</td>
</tr>
<tr>
<td>Two Tracks</td>
<td>120mm</td>
</tr>
<tr>
<td>Three Tracks</td>
<td>185mm</td>
</tr>
<tr>
<td>Four Tracks</td>
<td>250mm</td>
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</tbody>
</table>

We recommend a maximum of 4 tracks. If more tracks are required please speak to a member of the IQ team.
Options for Biparting Sliders

Biparting with 21mm coupling

Biparting with 95mm coupling
**Base Details**

IQ have designed a bespoke base and drainage solution, highly suitable for the high wet weather environment of the UK. Our base and drainage system is created using a two part Neoprene drainage block. The top layer of Neoprene is not penetrated therefore ensuring the weather seal of the base installation.

**EPDM’s**

IQ provide and install a double skin EPDM with the base detail. Internal EPDM’s are installed by others.

**Base Depth**

- 125mm with IQ Flush Threshold Drain
- 80mm with Drainage by Others

**Drain Top Colour Options**

- Champagne
- GT Silver
- Titanium
- Black

Our integrated drainage channel can take up to 120 litres of water per minute for high levels of water egress.

**NEW Freeway Base**

- Completely flat finish across base.
- Visible 37mm frame above FFL.
Opening Corners

Opening Corners 65 to 177° opening

Example Configurations

Fixed Corners (frameless or framed)

Framing Sections

90° opening corner

65 to 177° opening corner
Pocket Sliding Doors

Tracks 1 to 4 tracks
Example Configurations

with wall pocket

Framing Sections

single pane pocket door

multi pane pocket door
Handles + Locking

Lock Type 1 - manual thrust lever locking

Lock Type 4 - manual internal key locking

Image examples of the locking

Electromagnetic Locking

Options:
- manual with switch
- manual with remote
- glass break sensor
- closure monitor
- automated

External Key Locking
Slot Aeration

PURPOSE
Where ventilation is required to rooms with our minimal windows sliding glass doors, our popular slot aeration system can be used. To increase ventilation in rooms with Minimal windows our Slot Aeration system works by allowing the Minimal window to be locked into 3 separate minimal open positions. In summer this will help to let in fresh, cool air, and in winter it is particularly useful to combat condensation formed by cooking and other general activity.

OPERATION
When you turn the handle into the locked position on a minimal window, two vertical shoot bolts protrude from the 21mm vertical profile and enter into their respective recesses in the top and bottom of the structure. Our Slot Aeration system works by providing two additional recesses for these shoot bolts to enter within the floor and ceiling, allowing for varied locking positions with either a 20mm or 40mm ventilation gap. The Slot Aerator can act as a purge ventilator, allowing high concentrations of stagnant air to be removed from the room. It is necessary for every habitable room to have ventilation, except where sufficient extraction provisions exist.

APPEARANCE
As the aluminium floor and ceiling fittings only span 55mm x 18mm and are installed directly into the floor and ceiling, it is a very unobtrusive addition to the minimal window system and therefore will not interfere with the overall aesthetic of your living areas. This simple yet intelligent design means that no additional handles or iron mongery are required as they would be with traditional windows (latches, etc).
How to Specify a minimal window® from IQ Glass

The minimal windows® system is exclusive to IQ Glass in the UK. The aluminium window and door system is the first choice for architects and designers all over the UK looking for slim frame design with modern performance values. If you would like to specify a minimal window® on 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 product range. If you are considering using a minimal window® 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 the feasibility to areas of the installation you may not have considered.

Get a Quotation
We advise our customers to get a quotation for their intended minimal window® 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 the minimal window® product. These, easy to navigate, documents contain all the vital information needed for specification. They are available for you 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 minimal 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 installation and any other additional glazing works. 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. The estimated lead time for a minimal window® is 10 to 12 weeks depending on system and material chosen. This may be longer for specialist installations. This will be confirmed on order.

Where can I see the minimal windows® product before order?
We have several minimal window® configurations available to view at our showroom in Amersham. These aluminium windows and doors have been installed in a purpose built structure, exposed to the environment and used on a day to day basis. This will enable you to see just how well the minimal window® system withstands the wet British climate and how smoothly they operate over time.

If you or your clients would like to see the minimal windows® products in person just contact us and arrange an appointment at the showroom.