



DURATION WINDOWS

The Royale Door Technical Manual



System Specifications	3
Profile Identification	
● Outer Frames, Sash & Bead	4
● Other Key Profiles	5
● Coupling Bars	6
● Extension & Drip Bar	7
● Astragal Bars	8
● Cills	9 - 11
Open Out Sections	
● Jamb Section (Hinge Side)	12
● Locking Jamb Section	13
● Threshold With 150mm Cill	14
● Head Section	15
● Lay Bar / Transom	16
● Double Door Meeting Stile	17
● Double Door Meeting Stile (Handle)	18
Open In Sections	
● Jamb Section (Hinge Side)	19
● Locking Jamb Section	20
● Threshold With 150mm Cill	21
● Head Section	22
● Lay Bar / Transom	23
● Double Door Meeting Stile	24
● Double Door Meeting Stile (Handle)	25
Coupling Arrangements	
● Coupling To Royale Windows	26 - 27
● Coupling To Heritage Windows	28 - 30



Introduction

Our Royale Door system has been specifically designed as a thermally efficient replacement for existing steel doors. The system consists of a comprehensive range of aluminium extrusions, each designed to provide the structural performance and weathering characteristics required for modern window systems.

The design takes inspiration from traditional steel doors, with features such as slim sight-lines and the attractive aesthetic contours of its stepped profiles.

The system can produce both single and double doors and where fixed ventilation is required an additional head liner bar and slot ventilator can be fitted. In addition to the main aluminium extrusions a comprehensive range of accessories are available including gaskets, flat astragal bars, operating handles, multipoint locks, butt hinges, restrictors and a variety of other accessories, available in a range of colours.

Thermal Performance

The Royale Door system has been designed to be thermally efficient with a highly advanced polyamide thermal break. In conjunction with the correct glass specification the system has been designed to aid compliance with the latest thermal requirements of the current building regulations. For enhanced thermal performance, there are other glass options available.

Glazing

The Royale Door system is glazed with 24mm double glazed units set against extruded gaskets that are retained in the gasket grooves in the window sections. Glazing is held secure by means of glazing beads and an internal wedge gasket, but tape glazing is also available where required.

Materials

Aluminium profiles are extruded from aluminum alloy 6060 T6 complying with the recommendations of BS EN 12020-2 / BS EN 755 parts 1 to 9

Finishes

The range of aluminium sections can be provided in powder organic coat to BS 6496 or BS EN 12206-1. A range of alternative finishes are also available. Please contact Duration Windows Technical Department for further information.

Recommended Size Limitations

Single Doors

Max. Width - 1000mm
Min. Width - 600mm
Max. Height - 2100mm
Min. Height - 1000mm
Max. Weight - 60 kg (per sash)

Double Doors

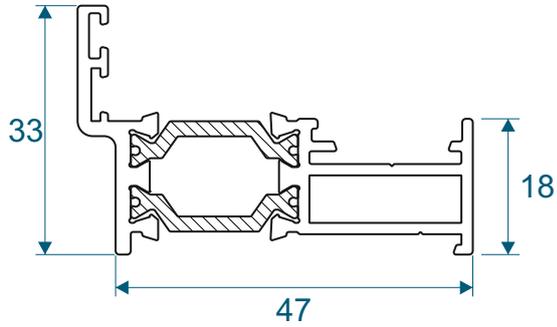
Max. Width - 2000mm
Min. Width - 1200mm
Max. Height - 2100mm
Min. Height - 1000mm
Max. Weight - 60 kg (per sash)

Outer Frame, Sash & Bead

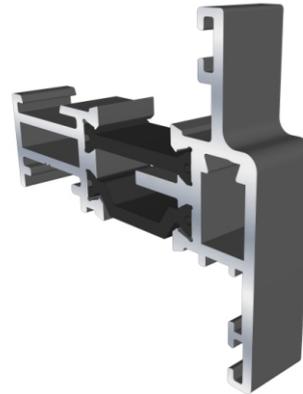
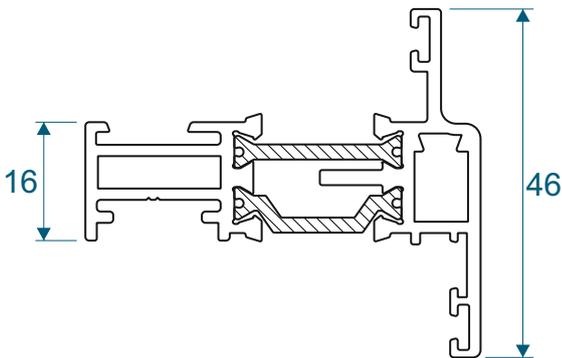


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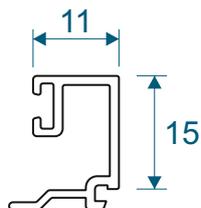
Outer Frame: W20015



Sash: W20027



Bead: W20168



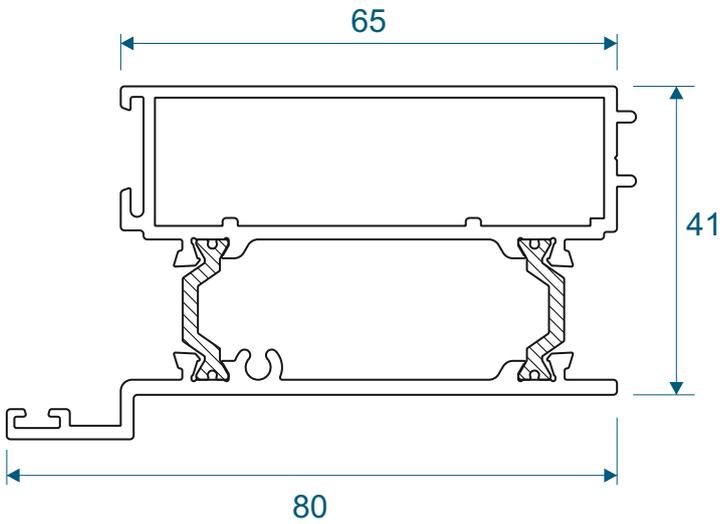
Duration Windows reserves the right to make changes to the product specification as technical developments dictate, and without prior notice. Pictures shown are for illustrative purposes and are not binding in detail, colour or specification.

Other Key Profiles

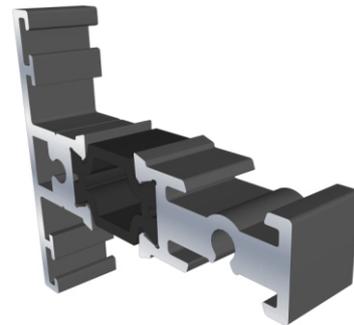
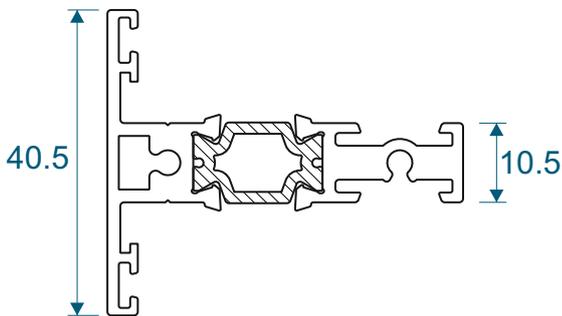


DURATION
WINDOWS

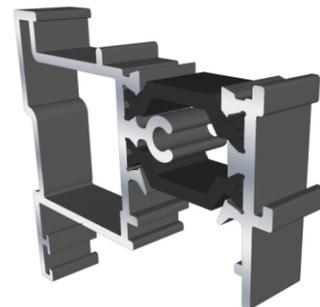
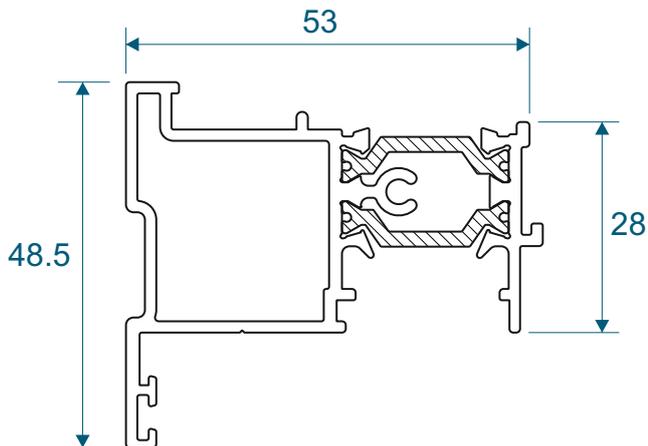
Lock / Handle Plate: W20038



Transom / Lay Bar: W20037



Double Door Meeting Stile: W20048



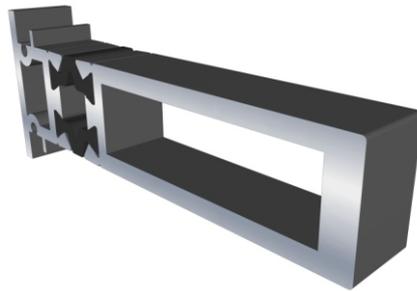
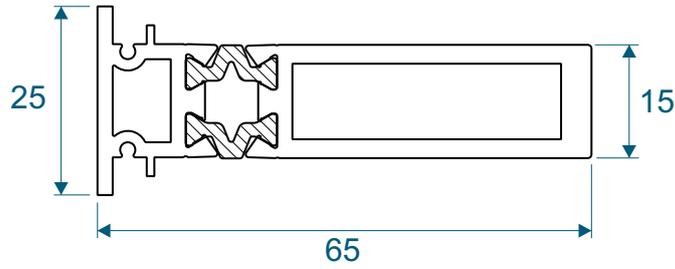
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Coupling Bars

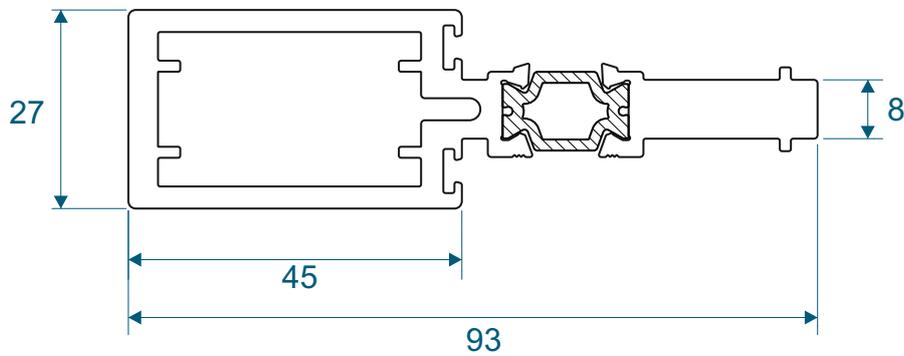


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15mm Coupling Bar: AW703



8mm Heritage Coupling Bar: W20051



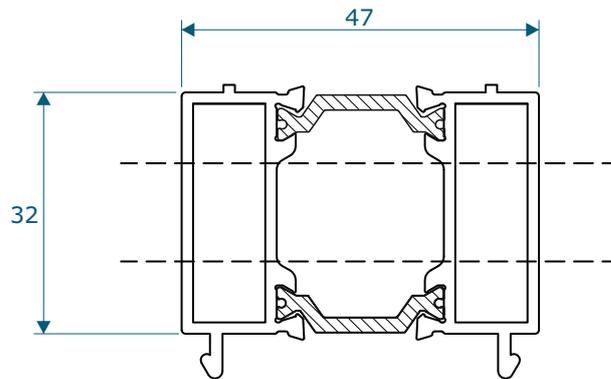
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Head Extension & Drip Bar

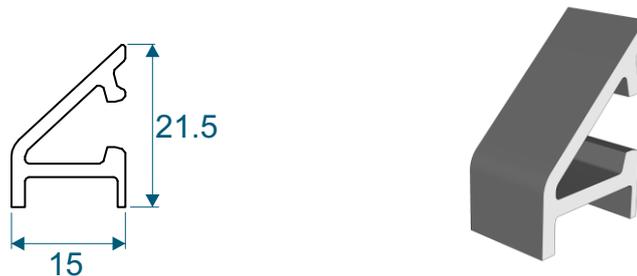


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32mm Head Extension: ETC058



Weather Bar / Drip Bar: VL72



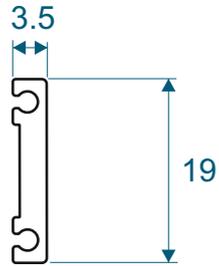
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Astragal Bars

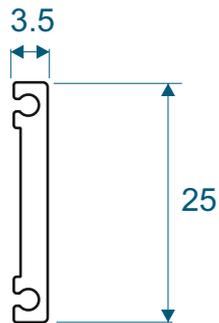


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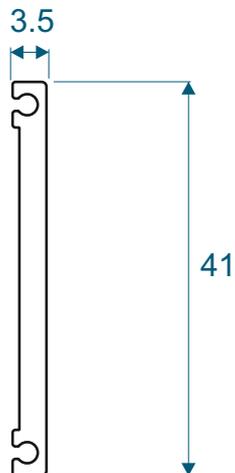
19mm Astragal Bar: ZSB90



25mm Astragal Bar: W10165



41mm Astragal Bar: W10166



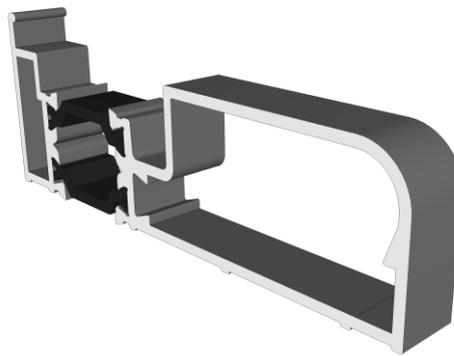
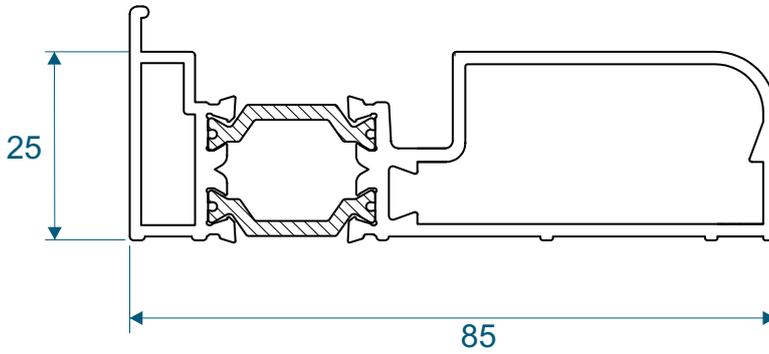
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Cills

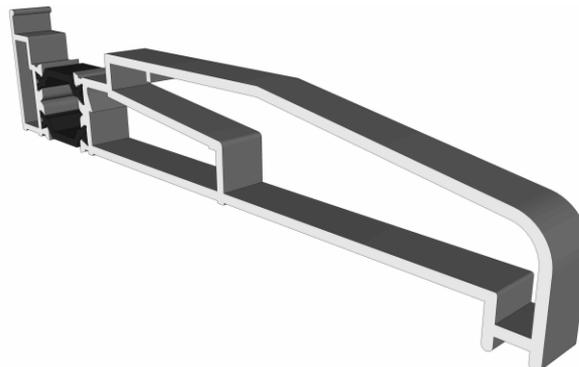
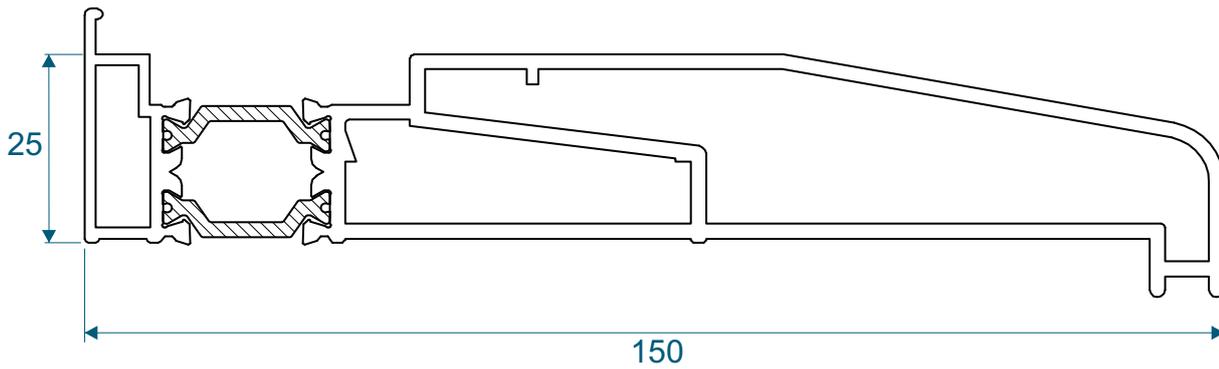


DURATION
WINDOWS

85mm Cill: ETC178



150mm Cill: ETC157



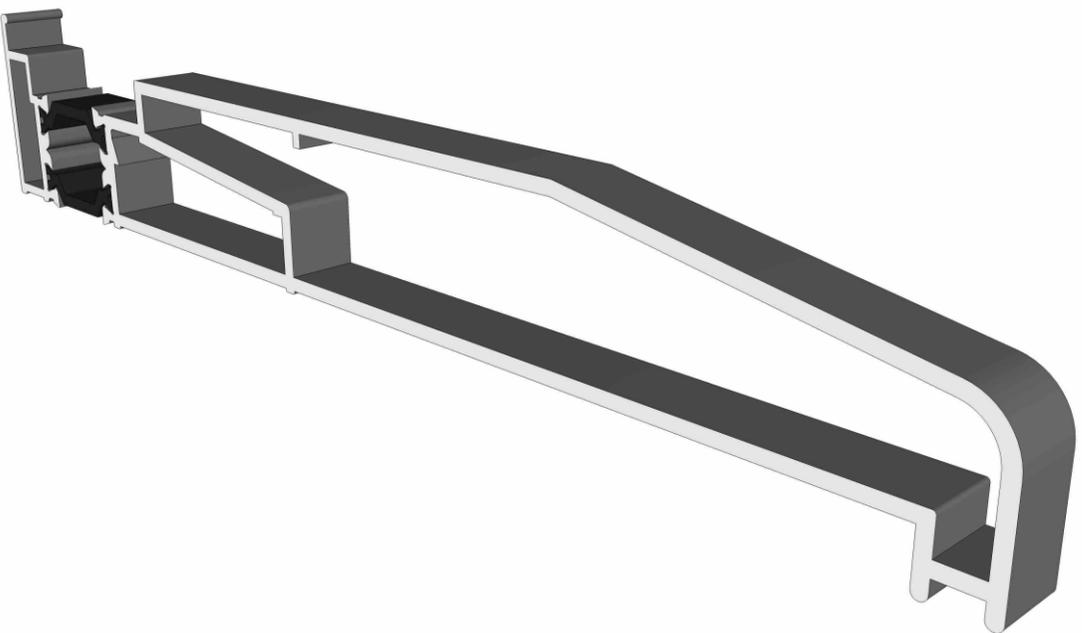
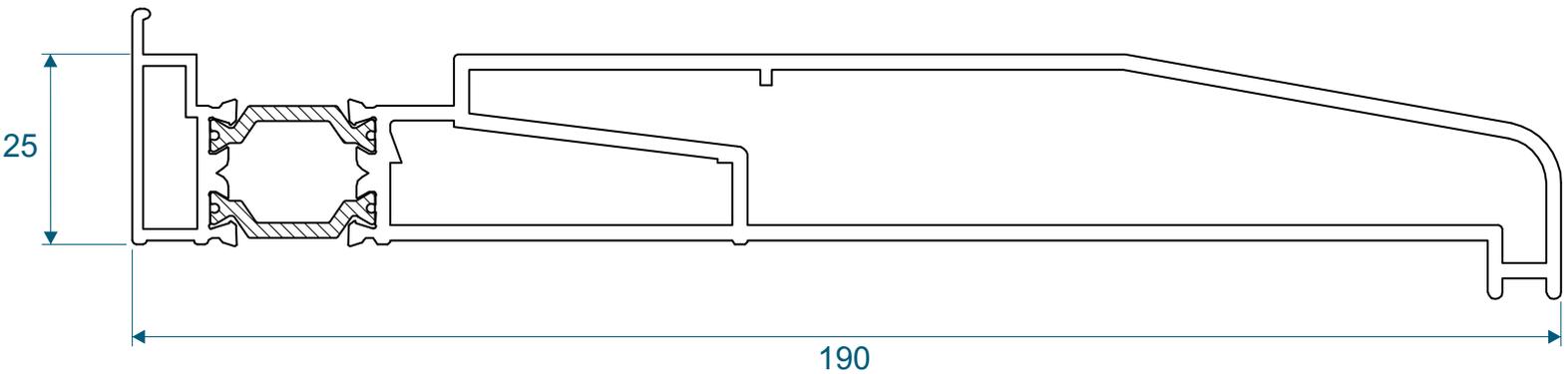
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Cills



DURATION
WINDOWS

190mm Cill: ETC158



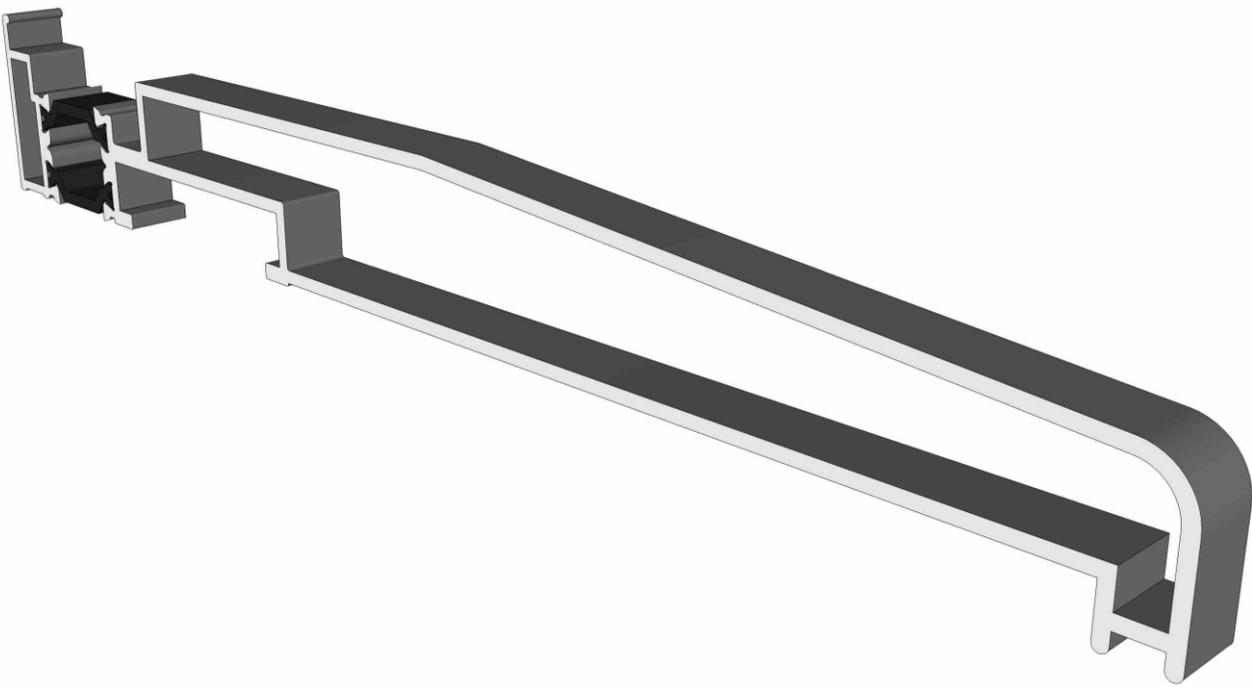
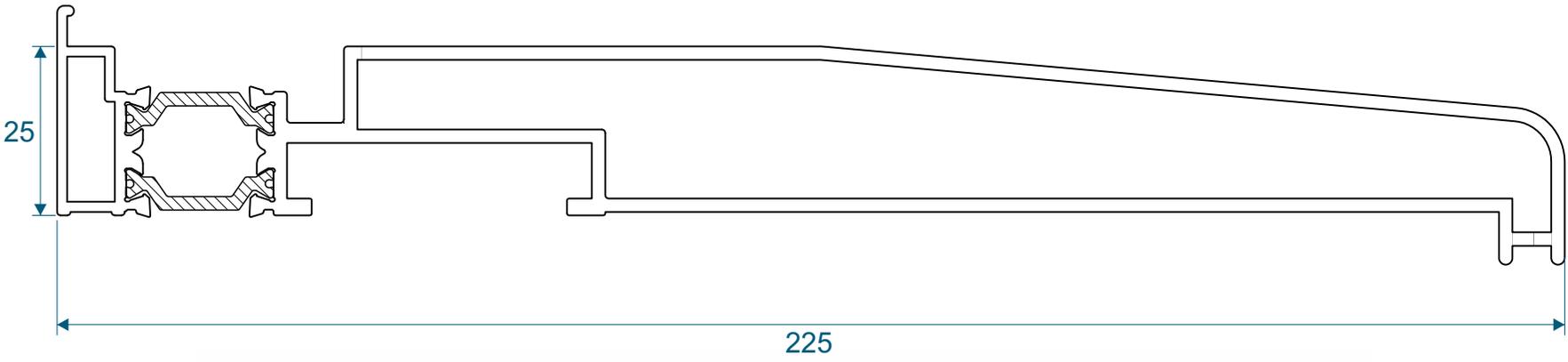
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Cills



**DURATION
WINDOWS**

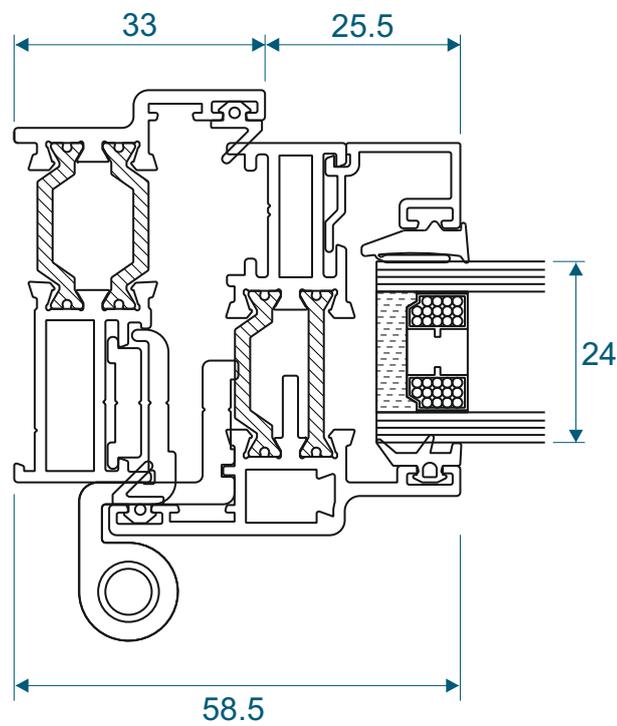
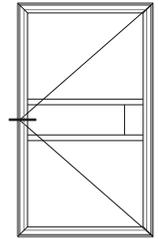
225mm Cill: ETC-179



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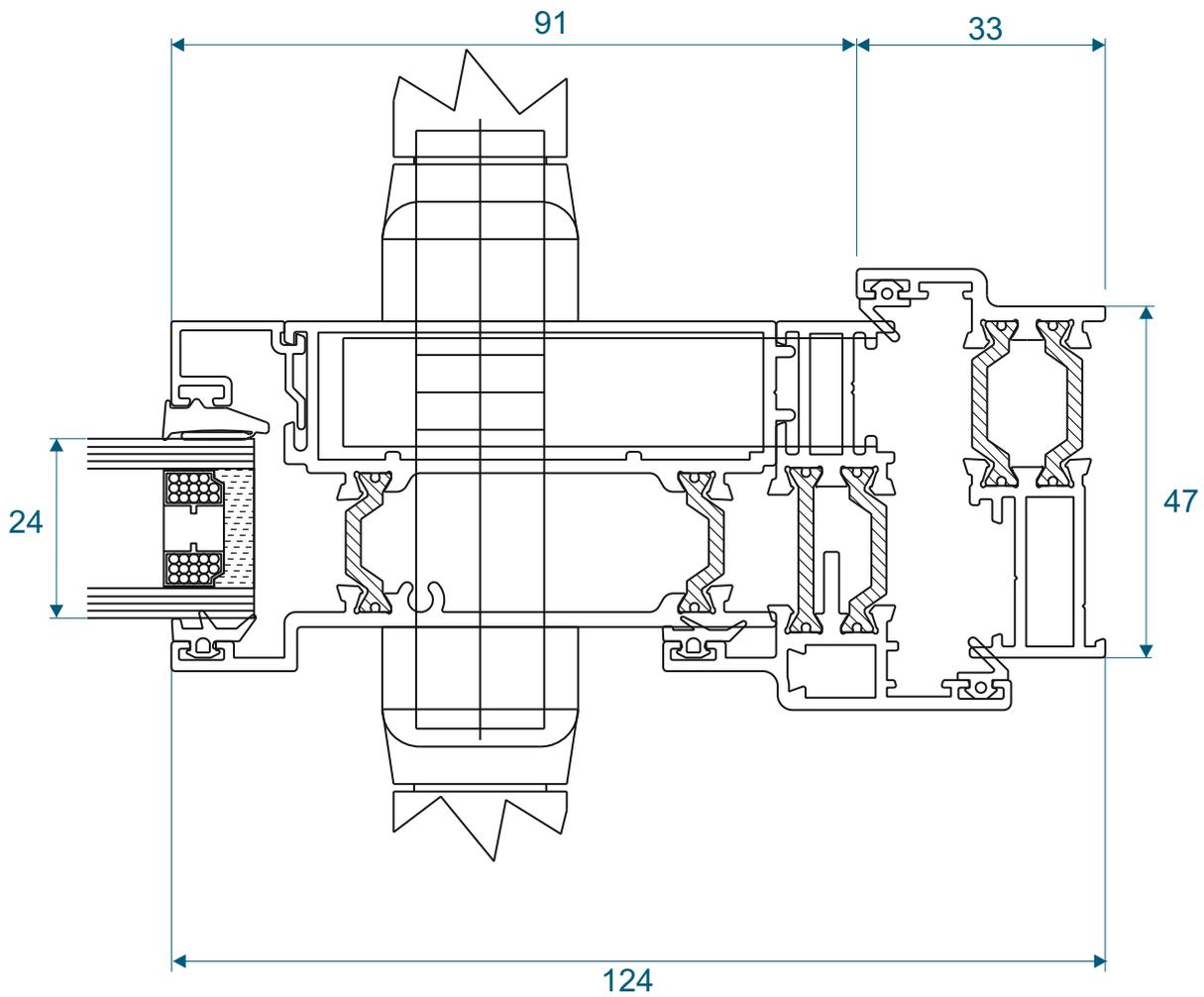
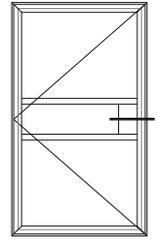


Open Out Door Jamb Section (Hinge Side)





Open Out Locking Jamb Section



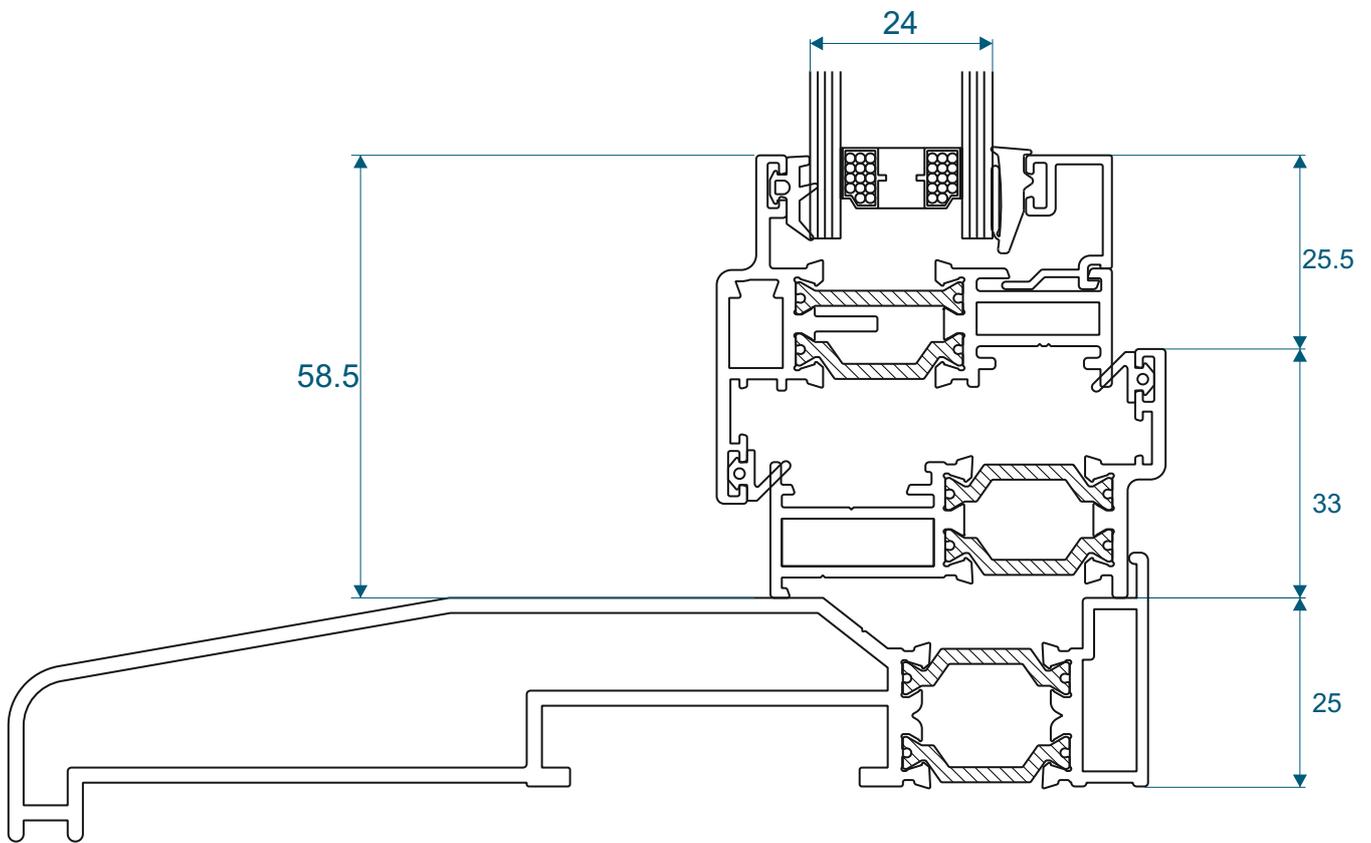
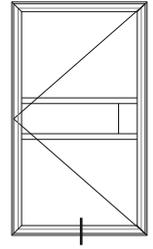
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General Sections - Open Out



DURATION WINDOWS

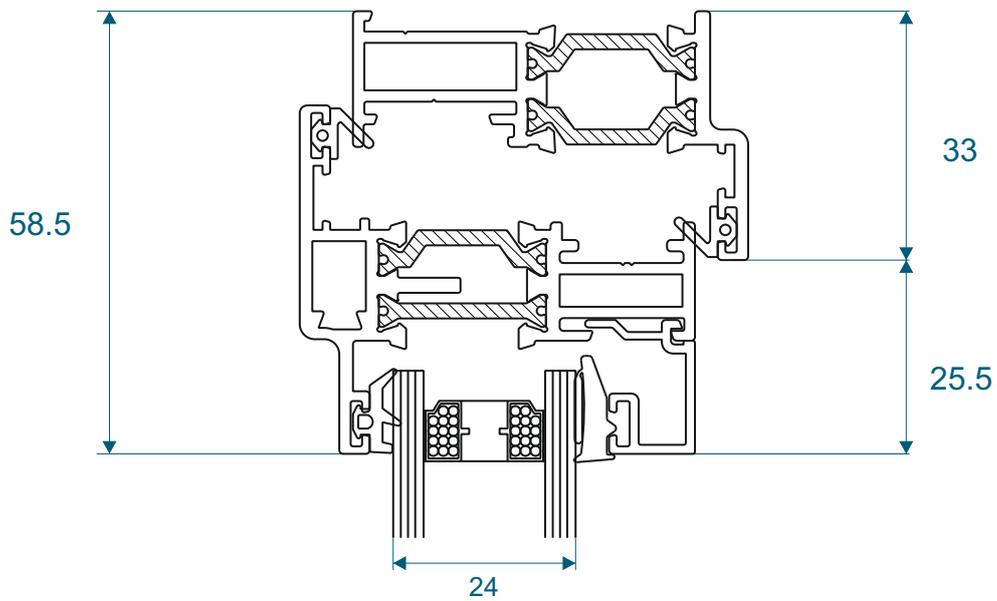
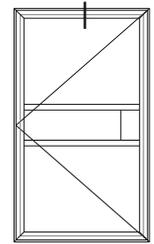
Open Out Threshold With 150mm Cill



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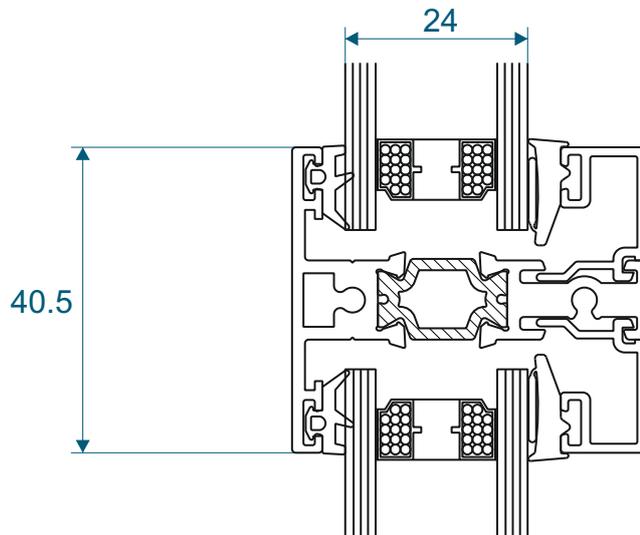
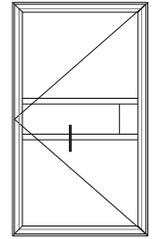
Open Out Head Section



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Open Out Lay Bar / Transom

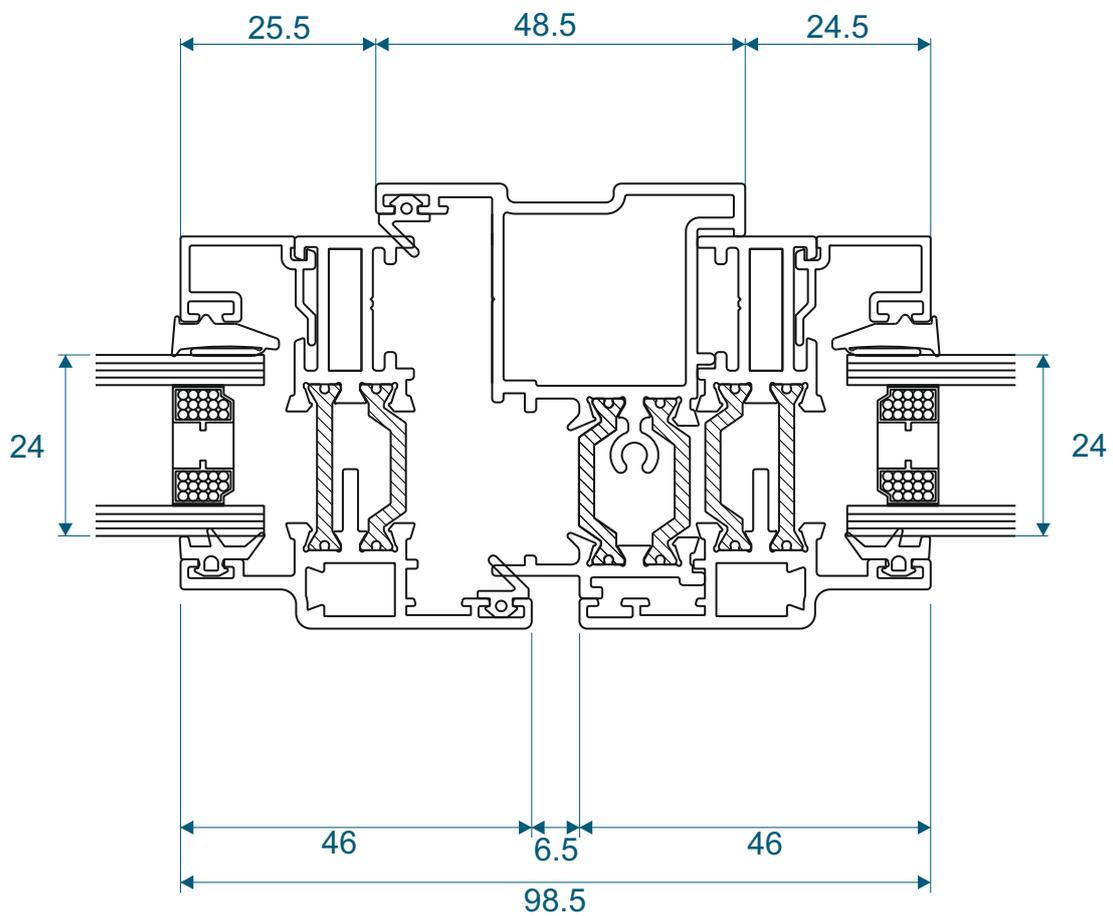
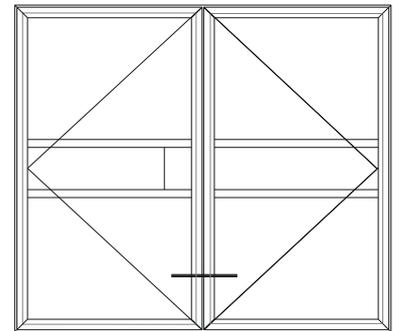


General Sections - Open Out



DURATION WINDOWS

Open Out Double Doors Meeting Stile



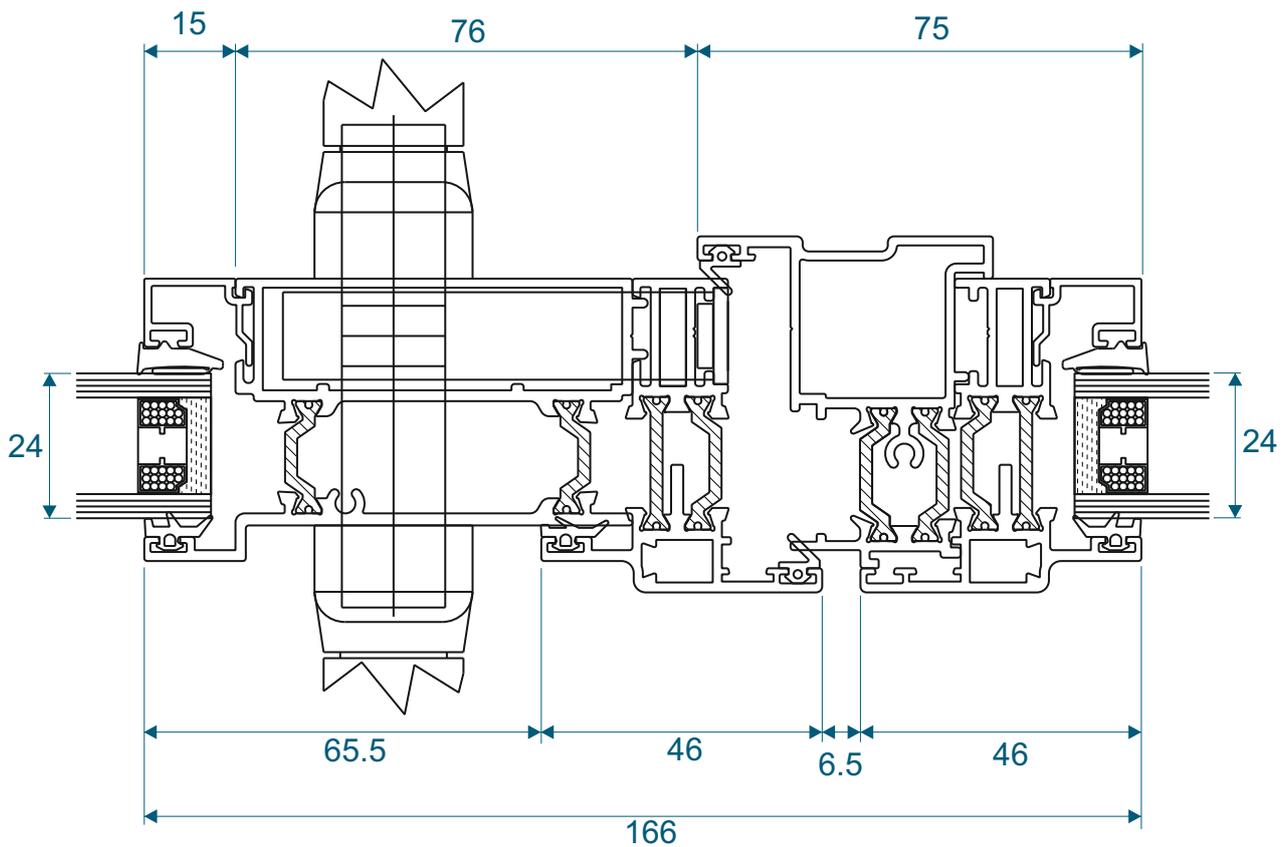
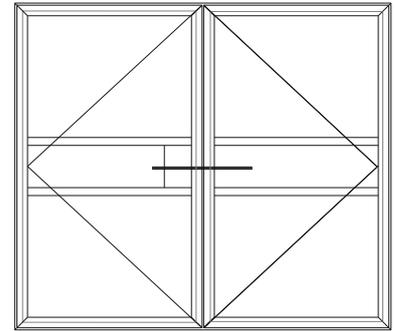
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General Sections - Open Out



DURATION WINDOWS

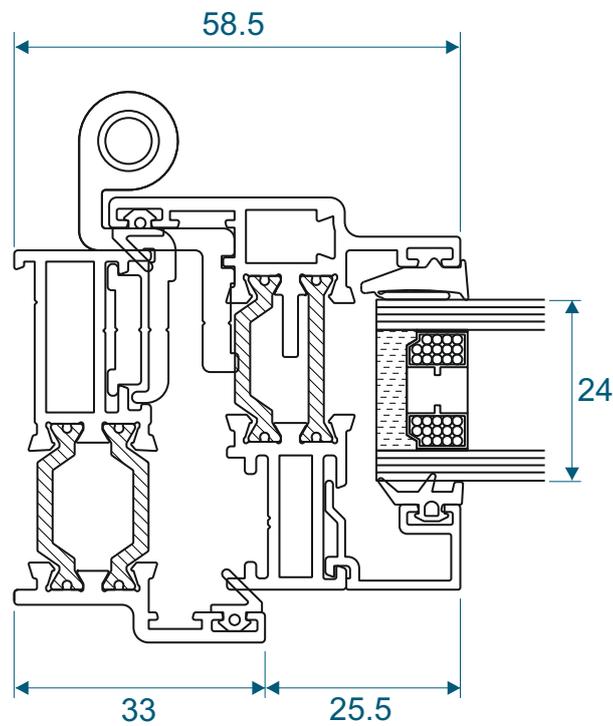
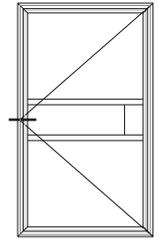
Open Out Double Doors Meeting Stile (Handle)



Duration Windows reserves the right to make changes to the product specification as technical developments dictate, and without prior notice. Pictures shown are for illustrative purposes and are not binding in detail, colour or specification.

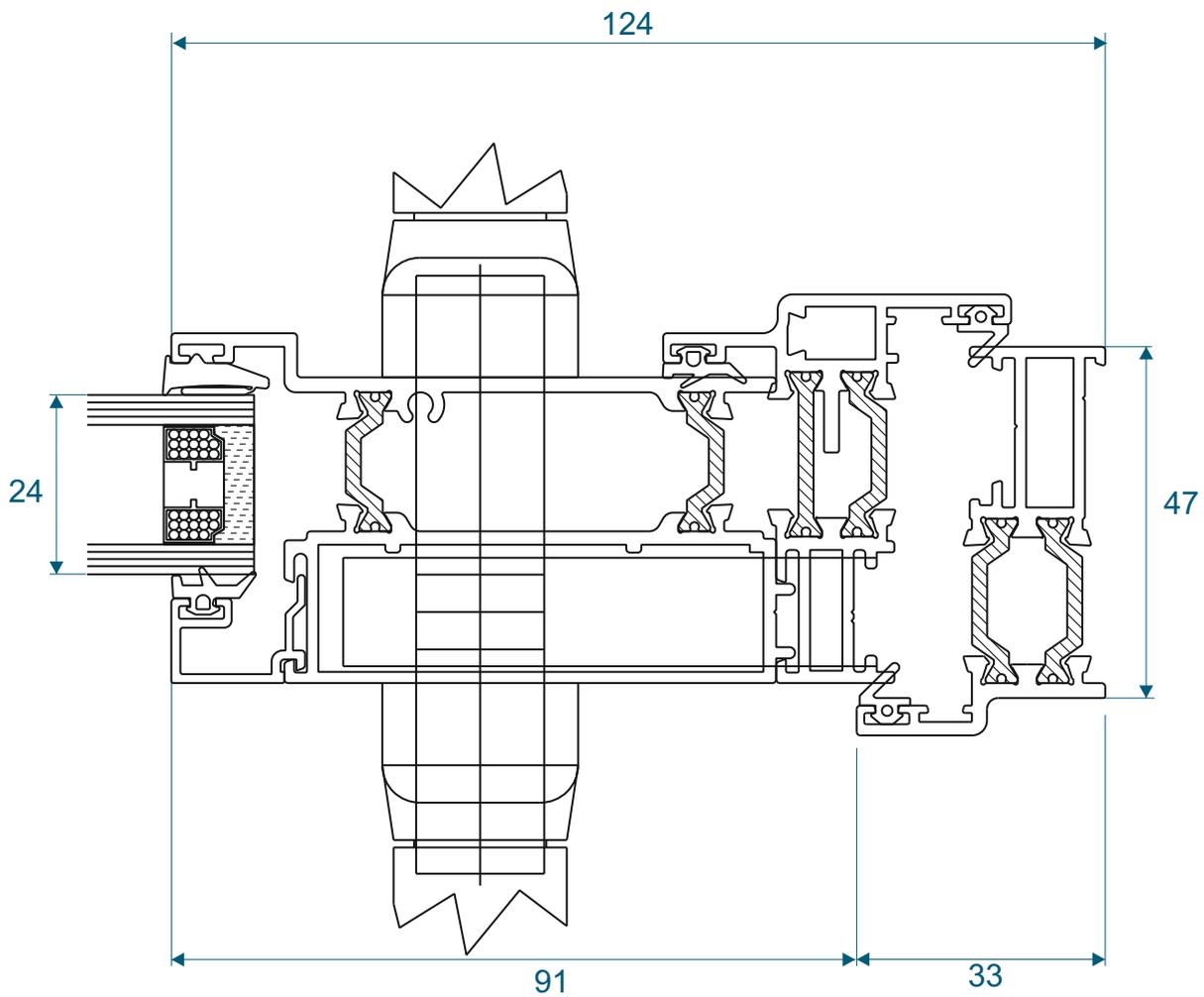
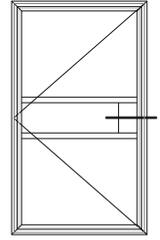


Open In Door Jamb Section (Hinge Side)





Open In Locking Jamb Section



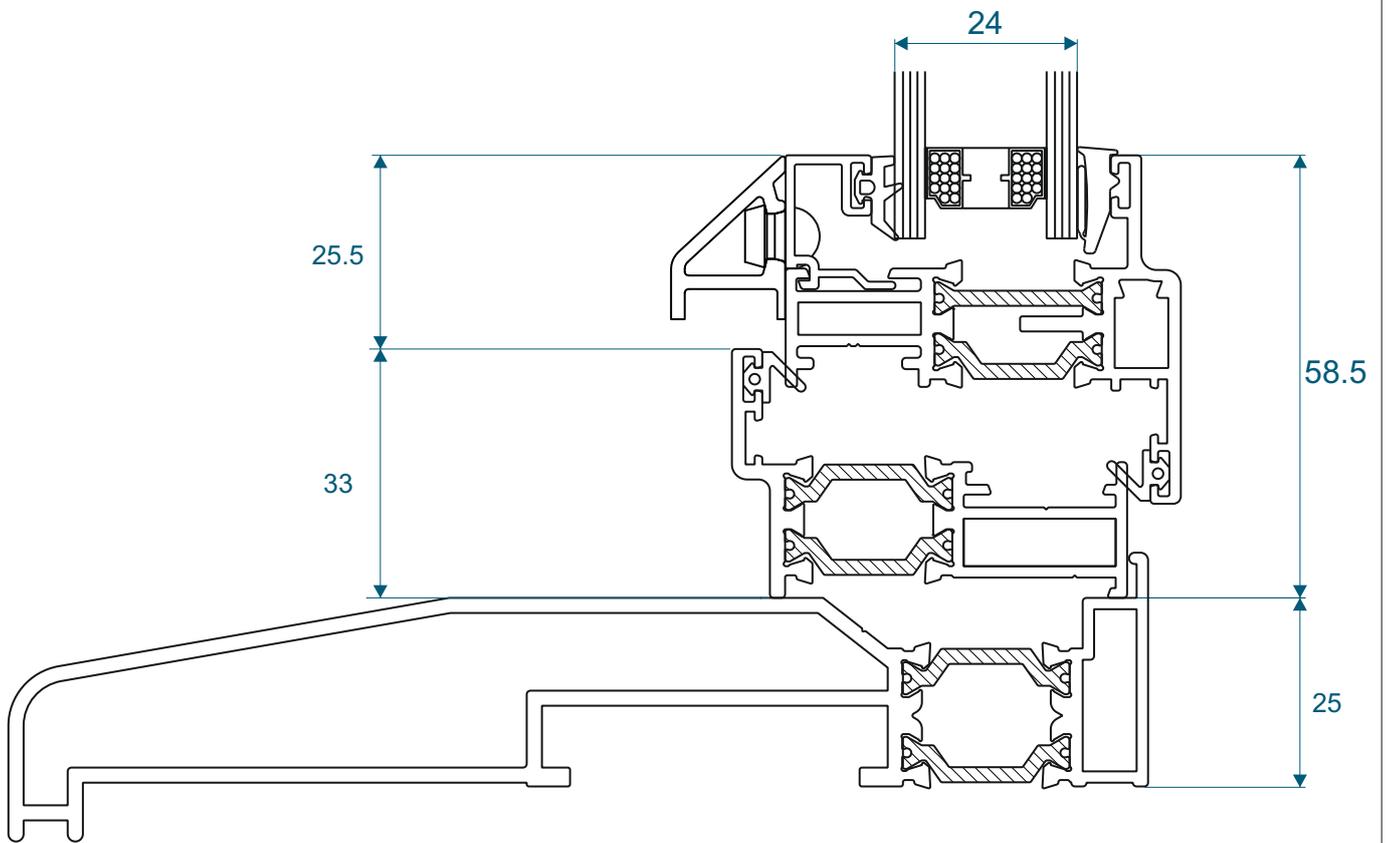
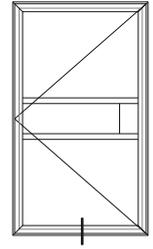
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General Sections - Open In



DURATION WINDOWS

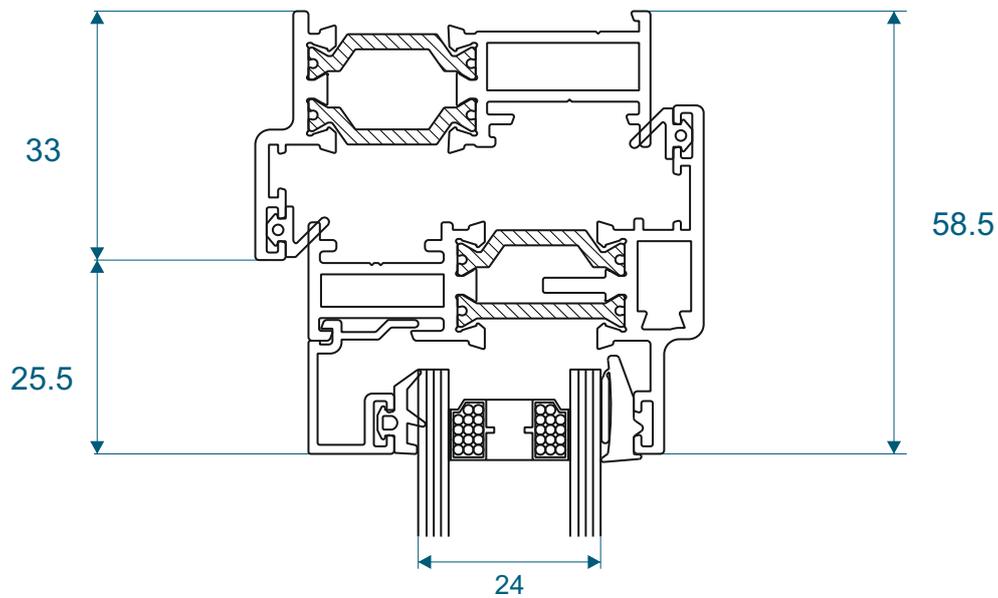
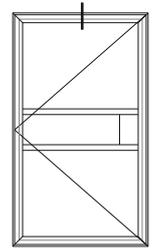
Open In Threshold With 150mm Cill



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Open In Head Section

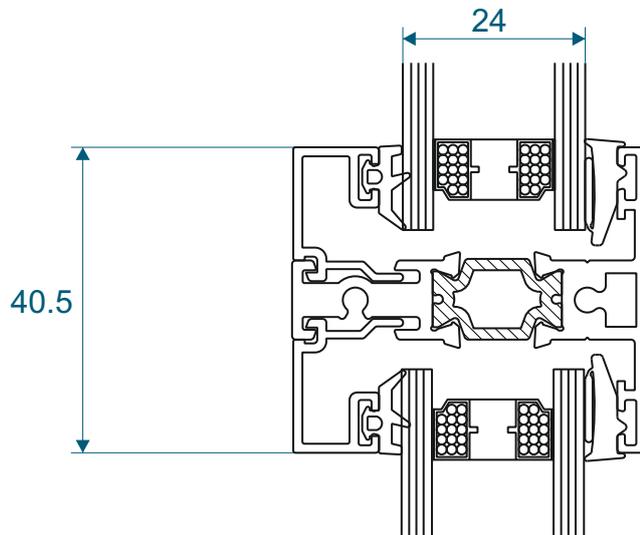
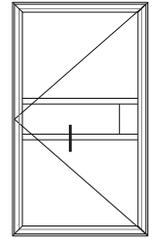


General Sections - Open In



DURATION WINDOWS

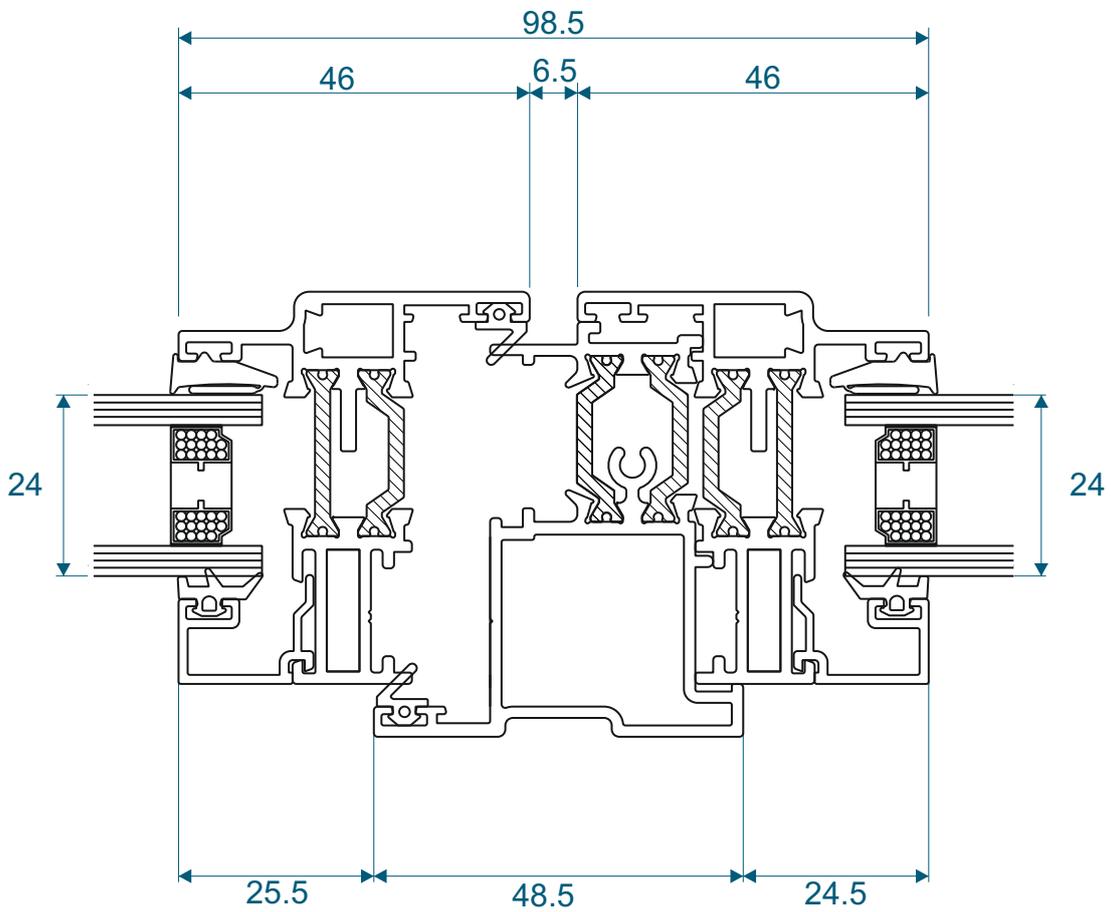
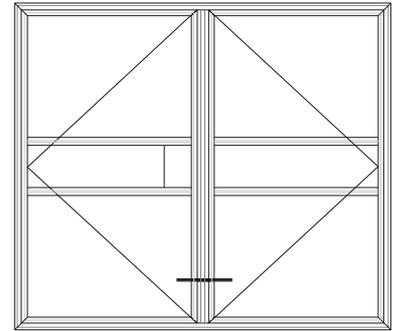
Open In Lay Bar / Transom



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Open In Double Doors Meeting Stile



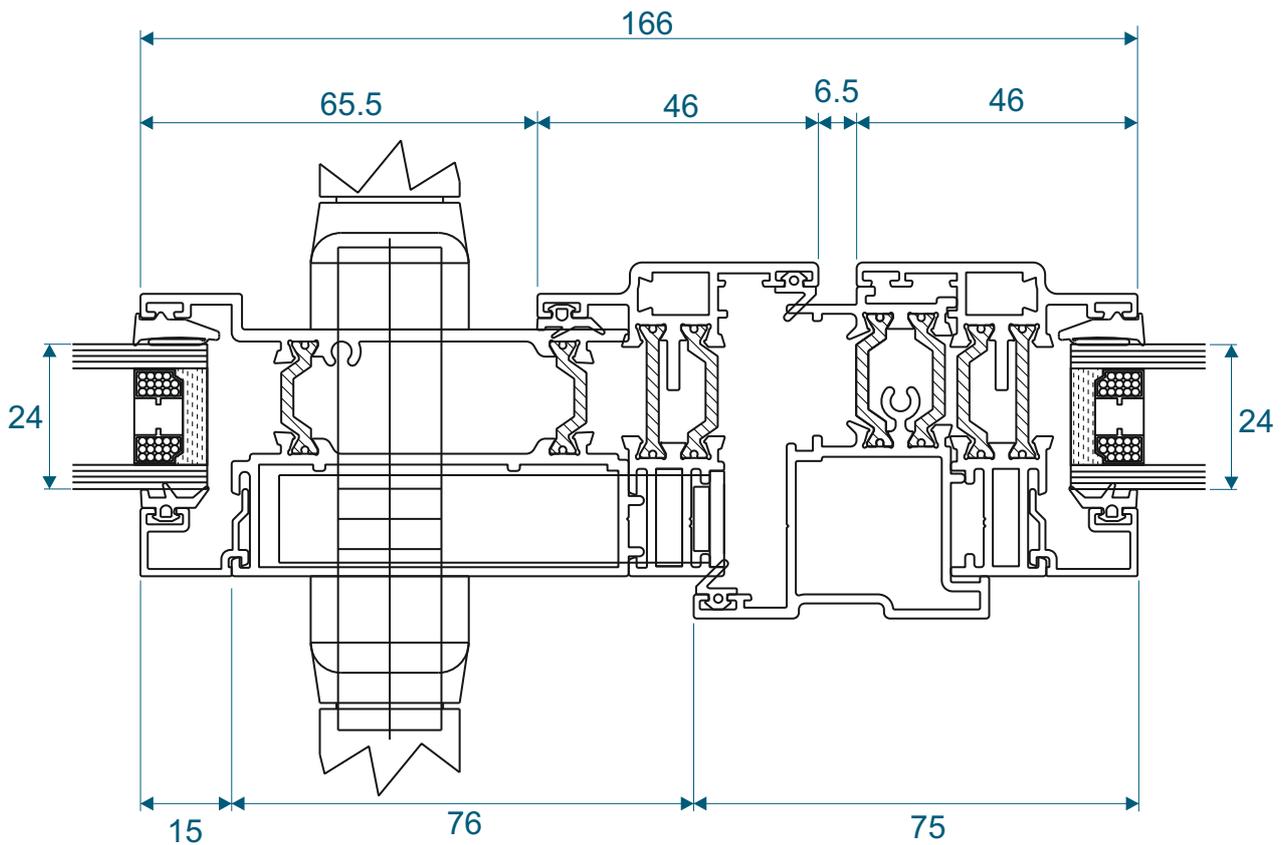
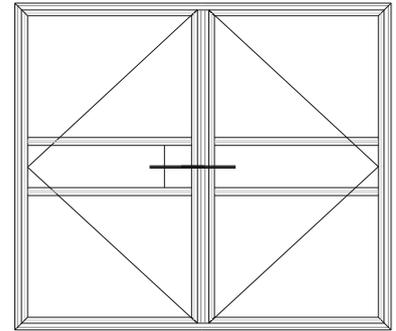
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General Sections - Open In



DURATION WINDOWS

Open In Double Doors Meeting Stile (Handle)



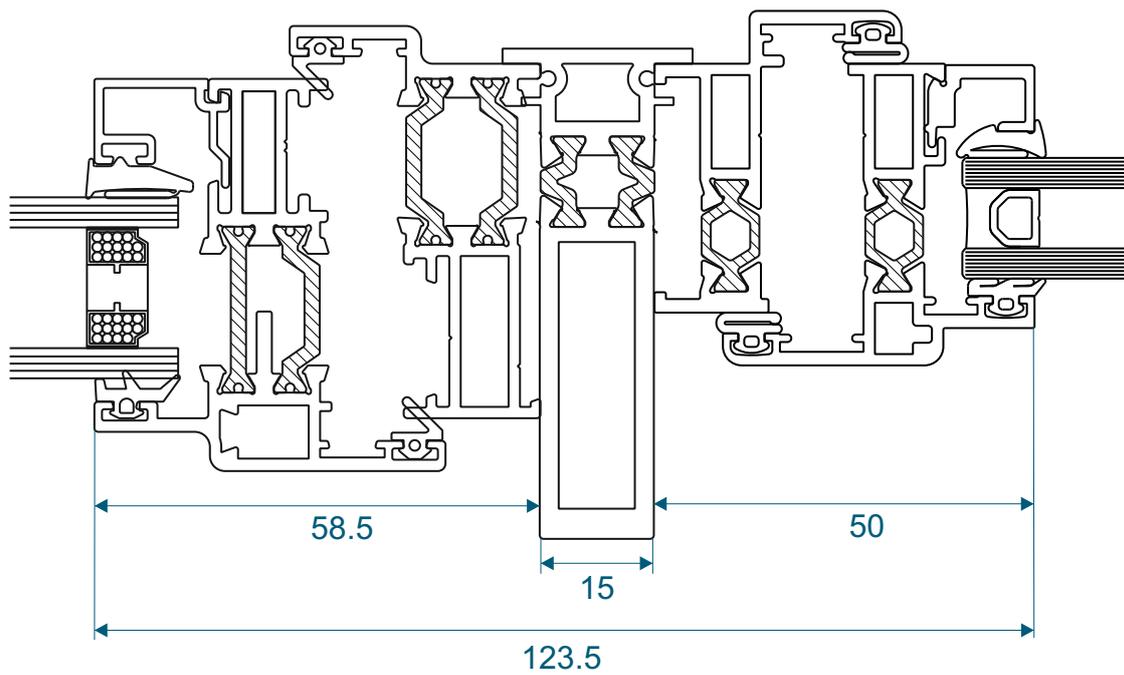
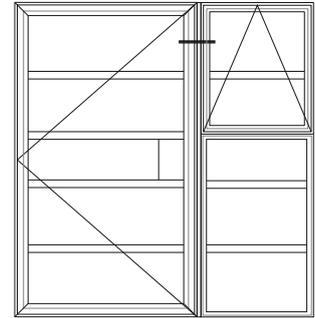
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Coupling To Royale Windows



DURATION WINDOWS

Coupling To Opener: AW703



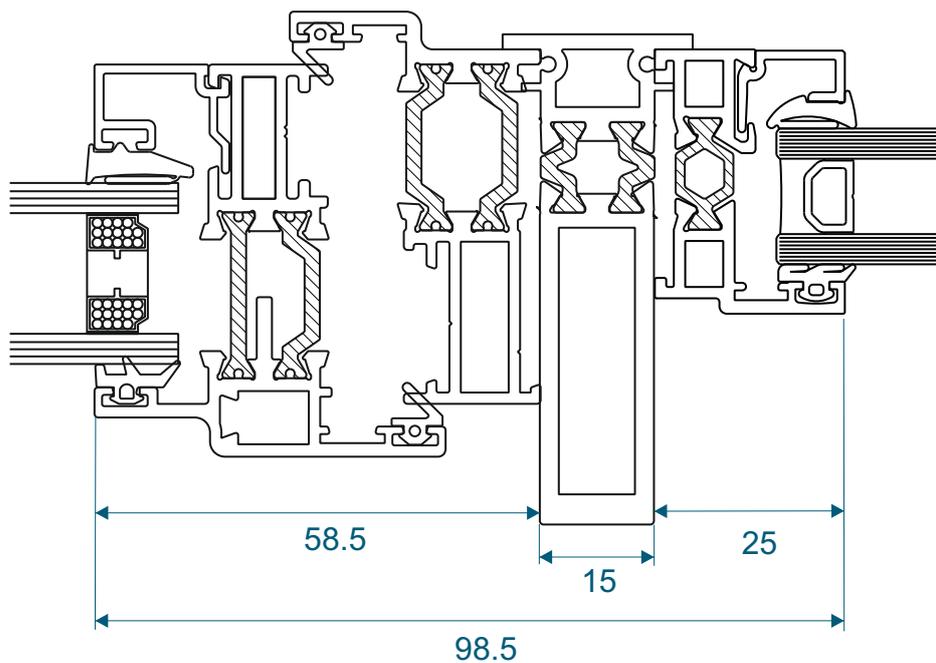
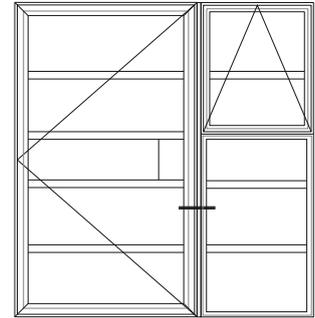
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Coupling To Royale Windows



DURATION WINDOWS

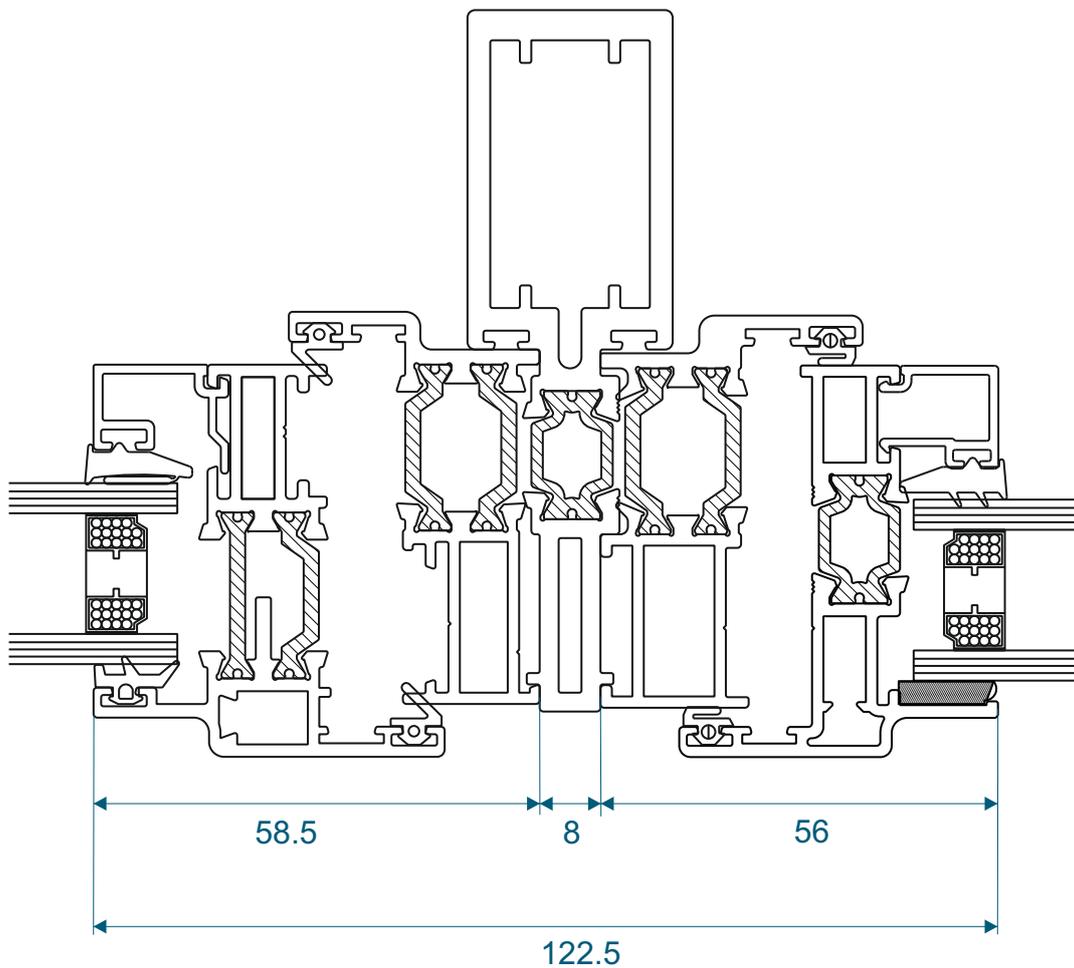
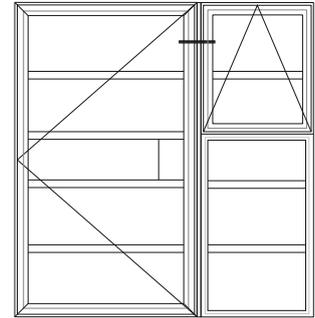
Coupling To Fixed Lite: AW703



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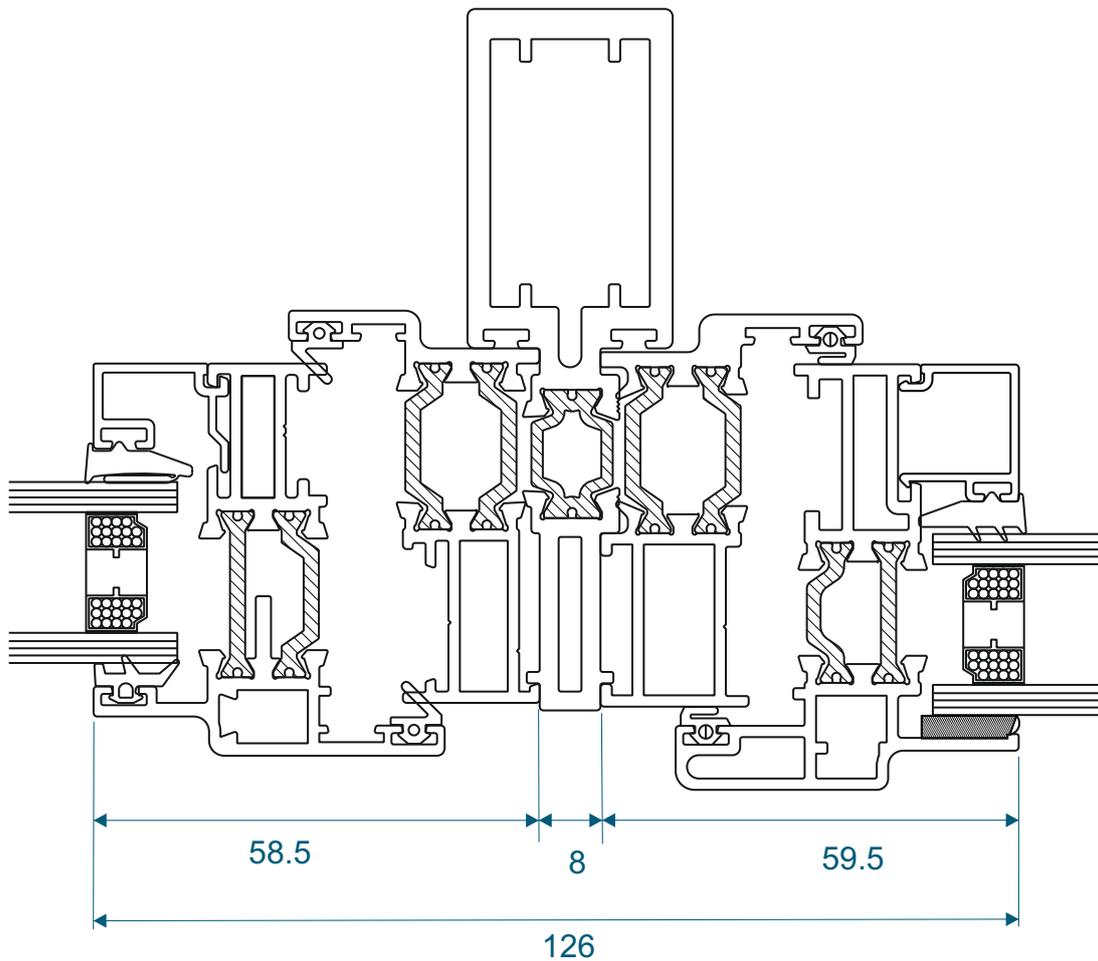
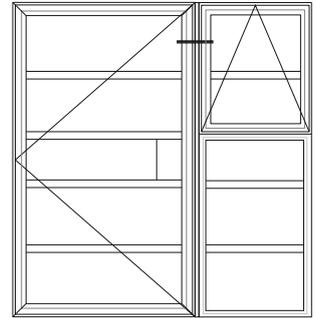
Coupling To Openers: W20051



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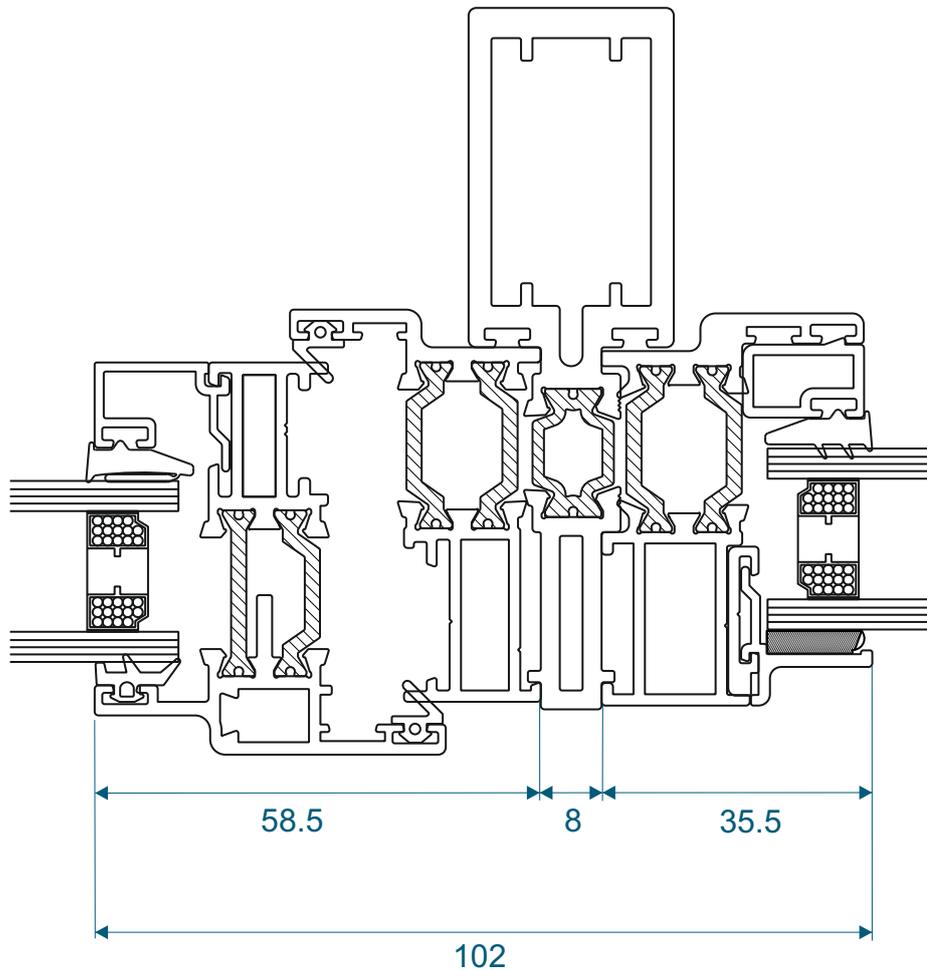
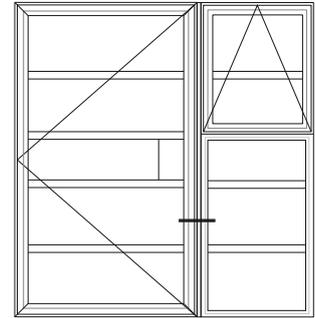
Coupling To Chelton Openers: W20051



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Coupling To Fixed Lite: W20051



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