



DURATION WINDOWS

The Royale Specification Manual



Secured by Design



Police Preferred Specification



T: 01268 681612

E: sales@duration.co.uk

W: www.duration.co.uk

Contents



DURATION
WINDOWS

● Specification	3
● Outer Frames	4
● Sash & Beads	5
● Coupling Bars	6
● Extension & Cill	7
● Fixed Sections	8
● Side Hung Sections	9
● Top Hung Sections	10
● Coupling Fixed With Fixed Windows	11
● Coupling Fixed With Opening Windows	12 - 13
● Coupling Opening Windows	14 - 15
● Coupling Configuration Help	16 - 17



Introduction

The thermally broken Royale window system has been specifically designed for the replacement of existing steel W20 windows. 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 incorporates sections for the construction of a variety of window types e.g. fixed lites, open out top hung and side hung vents. With the use of horizontal and vertical coupling bars a variety of composite windows can be produced. Small combinations will be coupled in the factory but larger combinations will arrive as individual windows ready to be coupled on site. 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 espagnolette bolts, friction hinges, restrictors and a variety of Ironmongery.

Thermal Performance

The Royale Window system has been designed to be thermally efficient with a highly advanced 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, thermal gaskets and perimeter foam can be applied to the top hung and side hung vents.

Glazing

The Royale Window system is glazed with 16mm & 18mm 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 external wedge gaskets 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.

Maximum Limits

Top Hung

Vent height - 1250mm

Vent width - 1250mm

Vent weight - 40 kg

Side Hung

Vent height - 1250mm

Vent width - 650mm

Vent weight - 24 kg

Fixed Lites

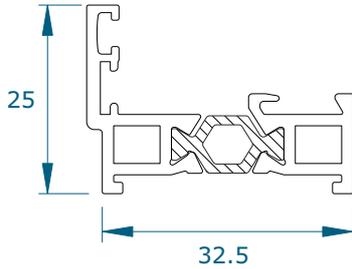
Frame height - 1250mm

Frame width - 1250mm

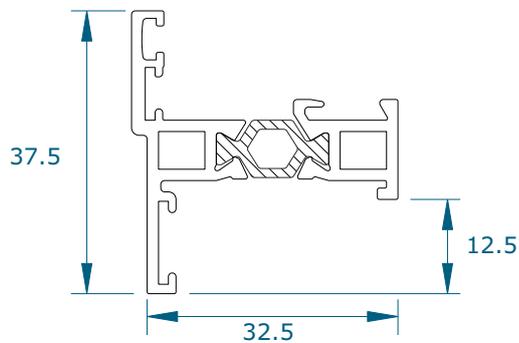


Outer Frames

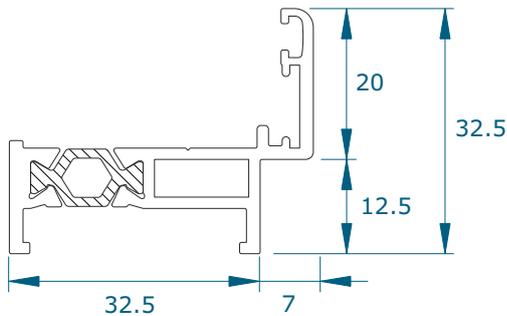
Fixed Equal Leg Frame (SW0006-0007)



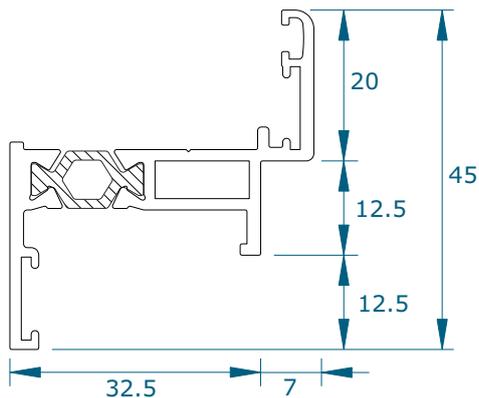
Fixed Odd Leg Frame (SW0006-0008)



Opener Equal Leg Frame (SW0001-0002)



Opener Odd Leg Frame (SW0001-0003)



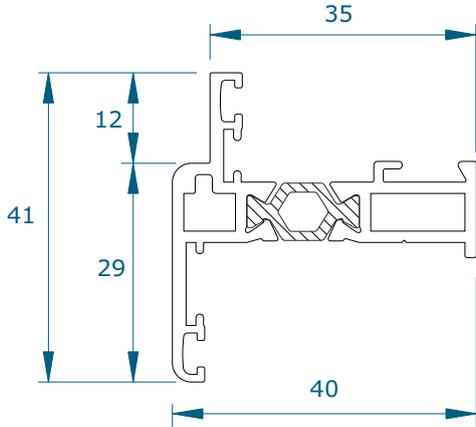
Duration Windows reserves the right to make changes to the product specification as technical developments dictate, and without prior notice. Pictures shown are for illustrative purposes and are not binding in detail, colour or specification.

Sash & Beads



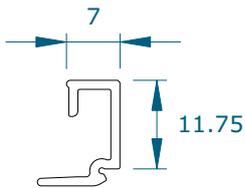
**DURATION
WINDOWS**

Stepped Sash (SW0004-0005)



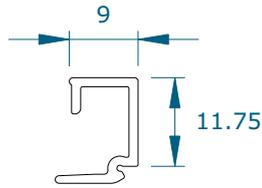
Beads

Bead SW0025



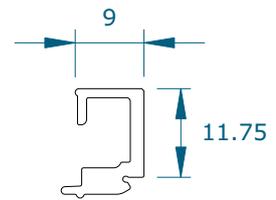
To be used with:
SW0006-0007
SW0006-0008
SW0009-0010

Bead SW0011



To be used with:
SW0004-0005

Bead SW0012



To be used with:
SW0004-0005

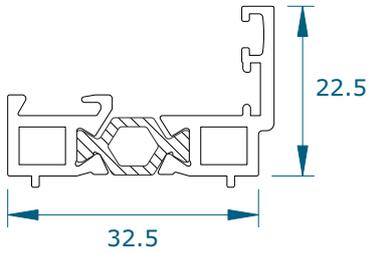
Handle Side Only

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.

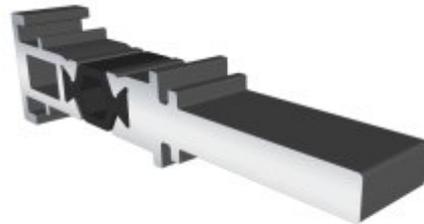
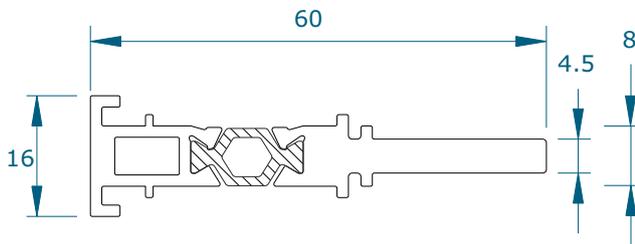


Coupling Bars

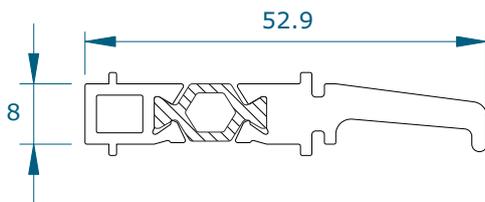
Fixed Lite Coupling Bar (SW0009-0010)



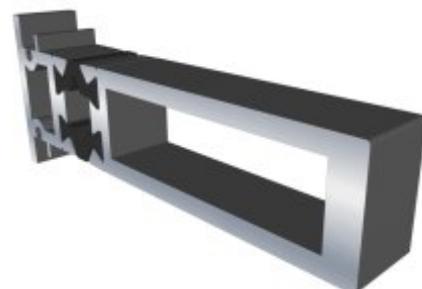
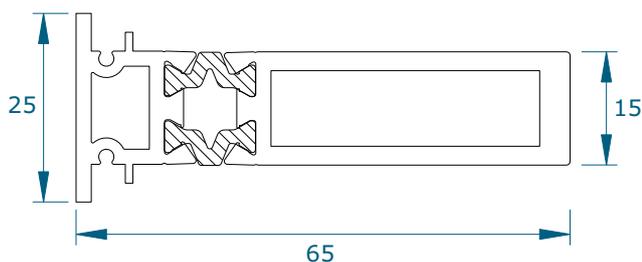
Vertical Coupling Bar (SW0014-0015)



Horizontal Coupling Drip Bar (SW0017-0016)



15mm Door Coupling Bar (AW703)



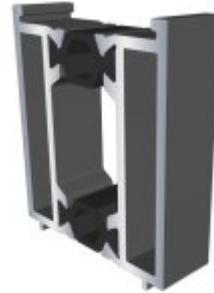
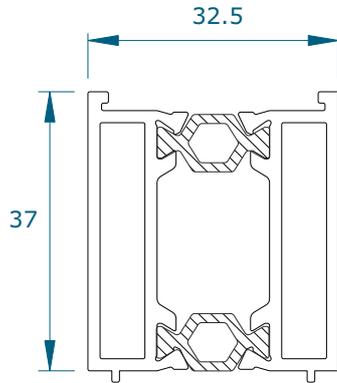
Duration Windows reserves the right to make changes to the product specification as technical developments dictate, and without prior notice. Pictures shown are for illustrative purposes and are not binding in detail, colour or specification.

Extension & Cills



DURATION
WINDOWS

Head Extension (SW0018-0018)

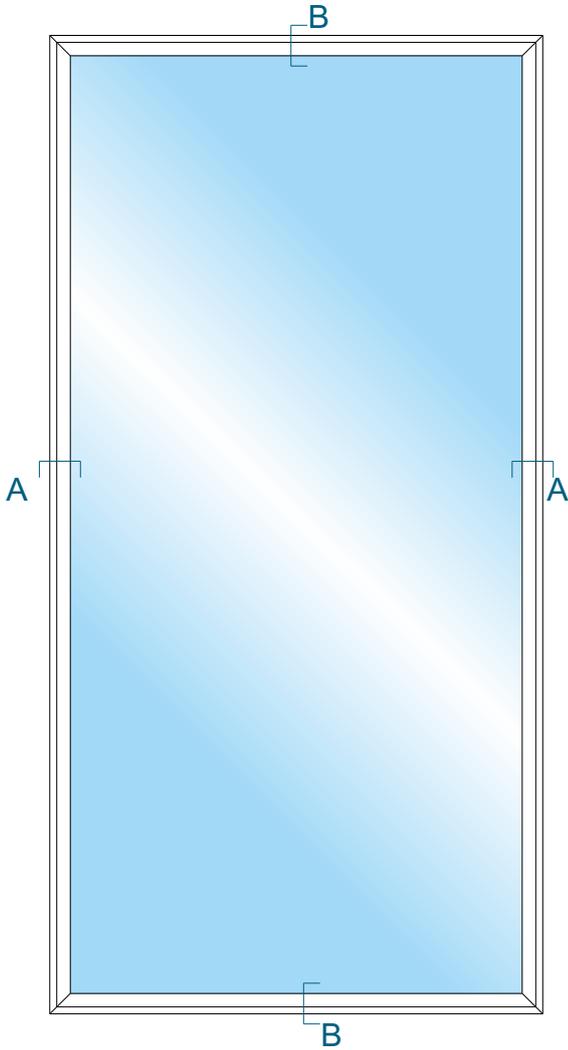


Cill (TBA)

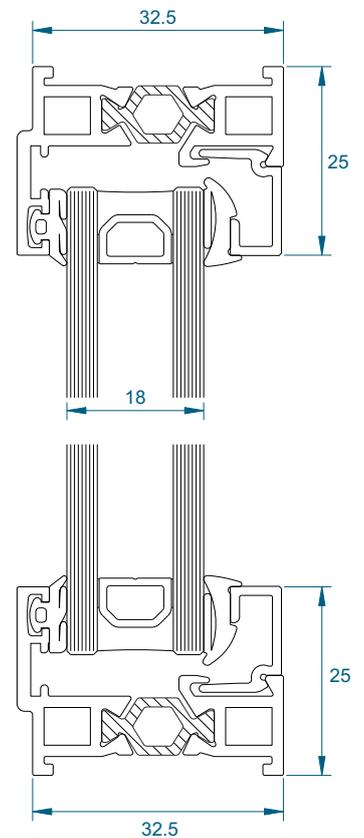
Intentionally Left Blank
Cill Coming Soon



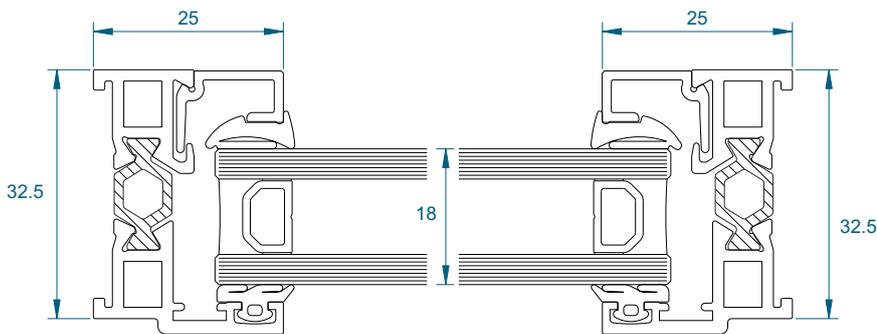
Fixed Lite Window



Section B - B



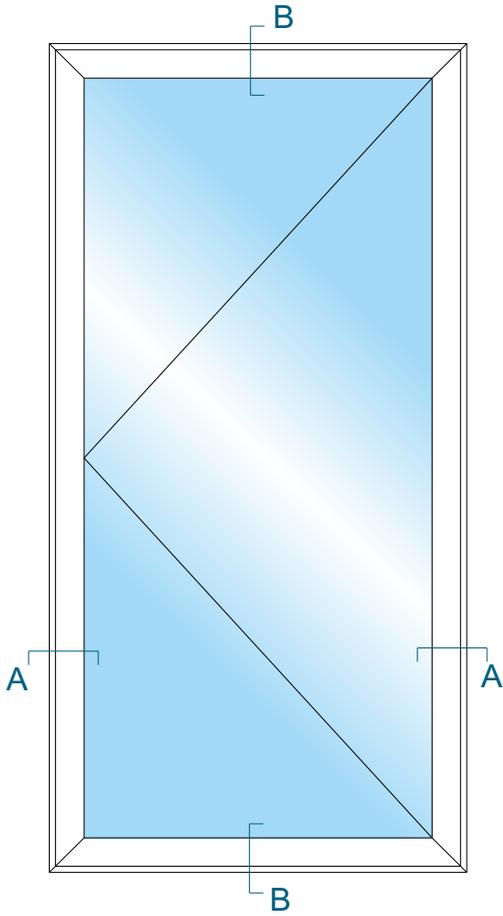
Section A - A



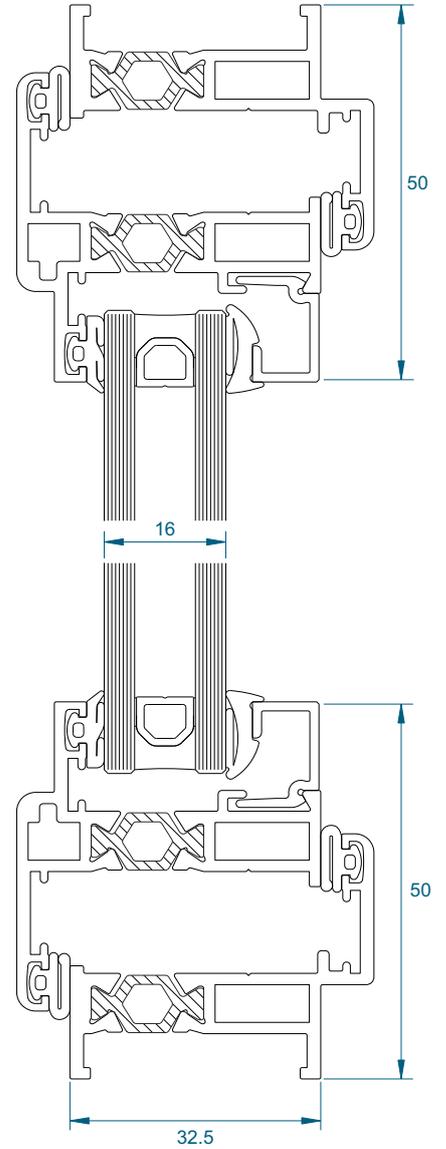
Duration Windows reserves the right to make changes to the product specification as technical developments dictate, and without prior notice. Pictures shown are for illustrative purposes and are not binding in detail, colour or specification.



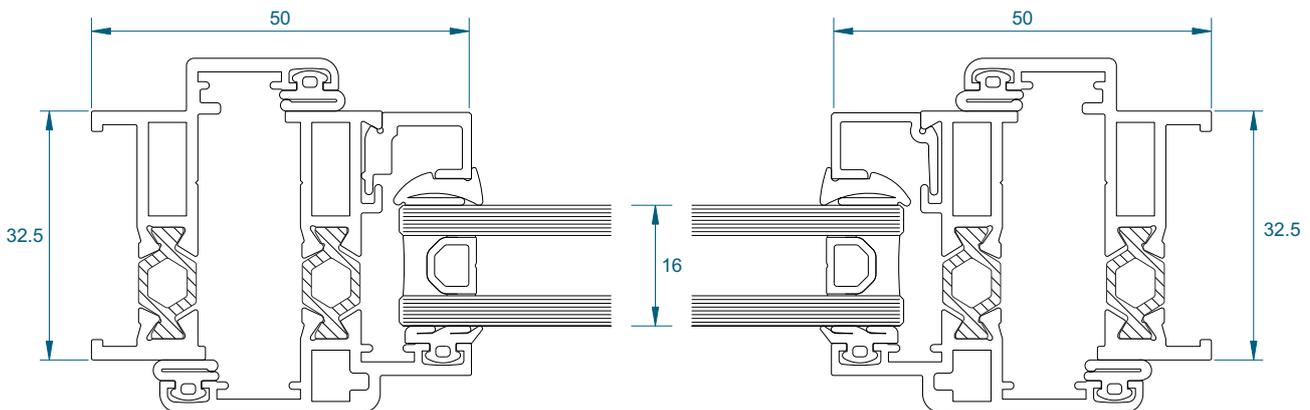
Side Hung Window



Section B - B



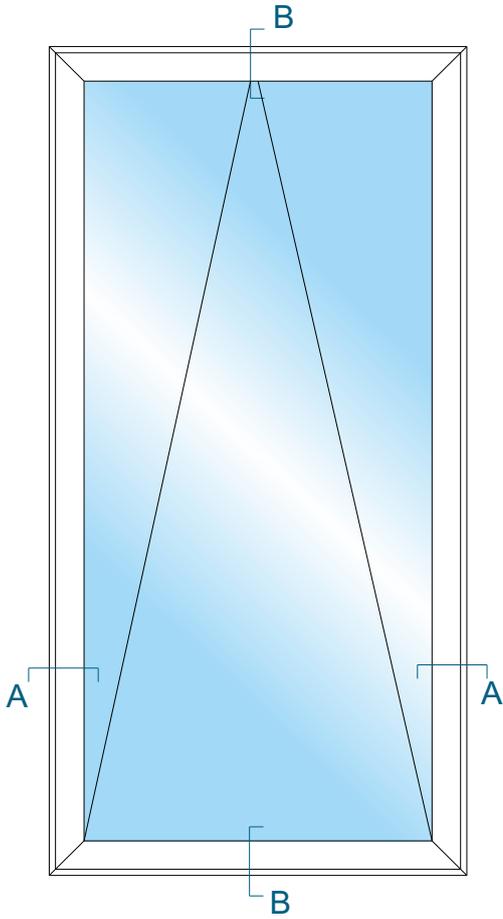
Section A - A



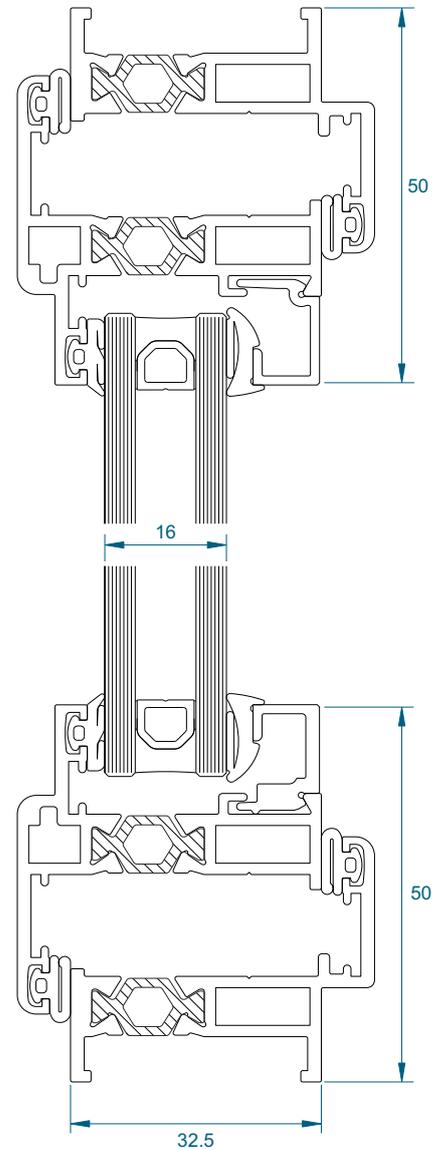
Duration Windows reserves the right to make changes to the product specification as technical developments dictate, and without prior notice. Pictures shown are for illustrative purposes and are not binding in detail, colour or specification.



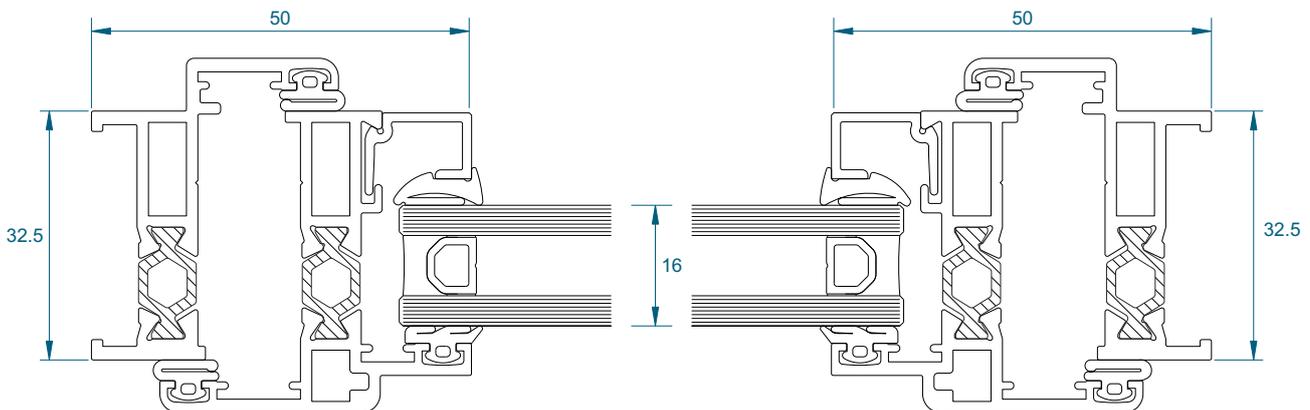
Top Hung Window



Section B - B



Section A - A



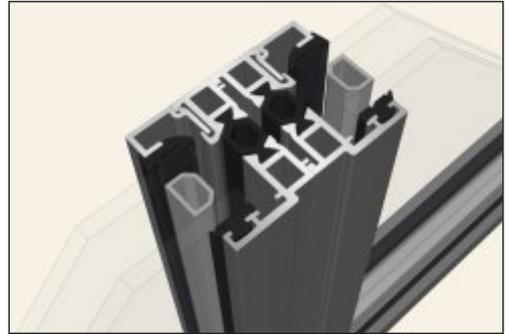
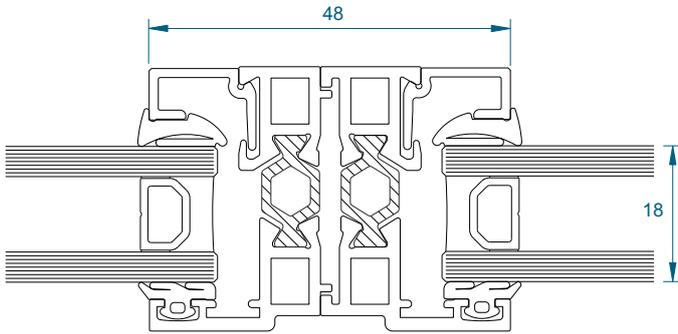
Duration Windows reserves the right to make changes to the product specification as technical developments dictate, and without prior notice. Pictures shown are for illustrative purposes and are not binding in detail, colour or specification.

Coupling Sections

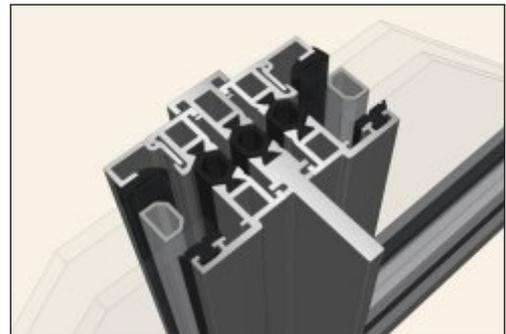
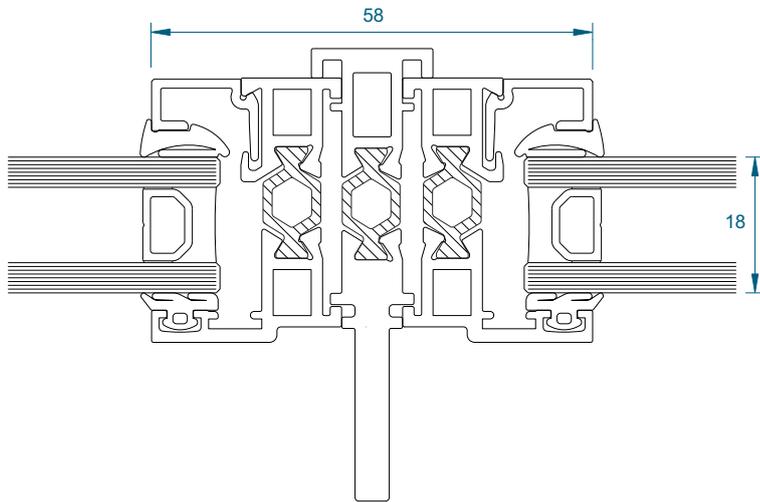


DURATION
WINDOWS

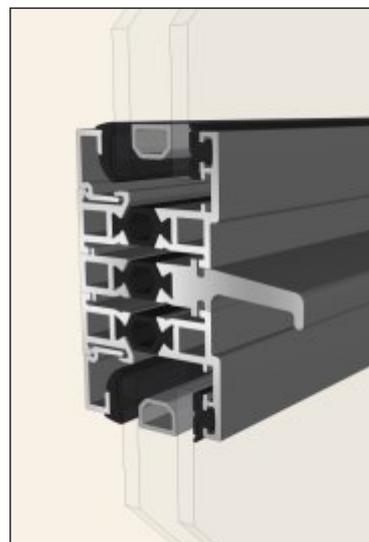
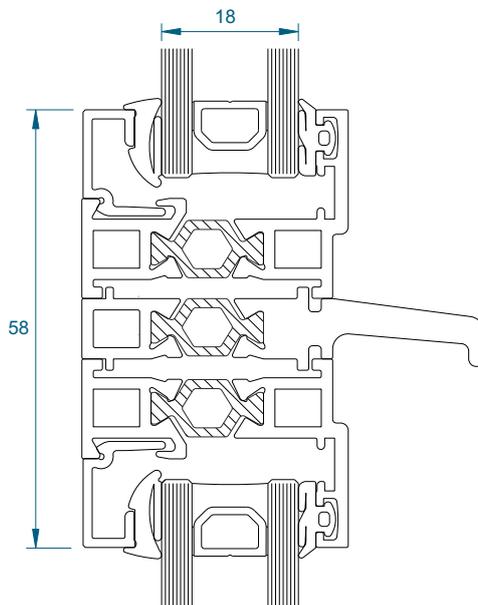
Fixed Next To A Fixed (Using Fixed Coupler)



Fixed Next To A Fixed (Using Vertical Coupler)



Fixed Over A Fixed (Using Horizontal Drip Bar Coupler)



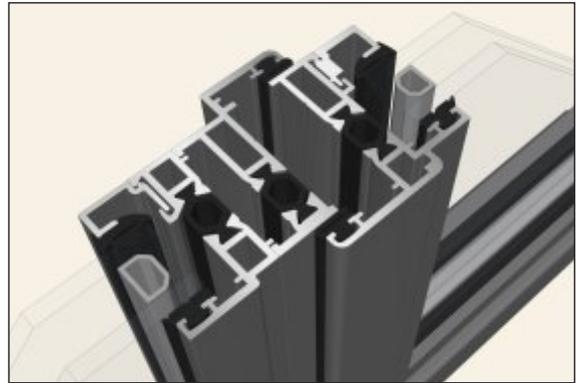
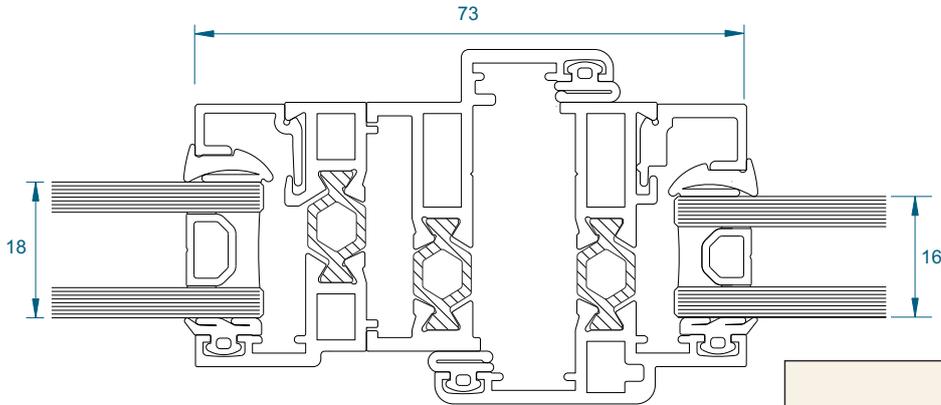
Duration Windows reserves the right to make changes to the product specification as technical developments dictate, and without prior notice. Pictures shown are for illustrative purposes and are not binding in detail, colour or specification.

Coupling Sections

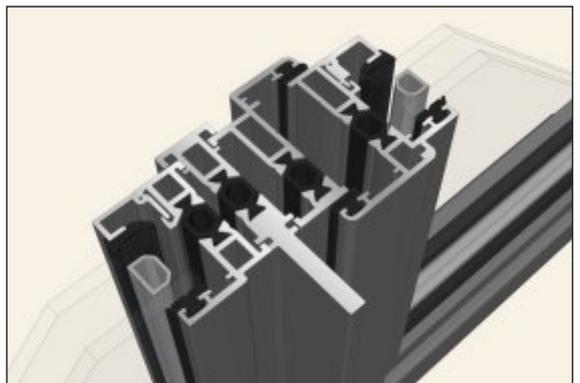
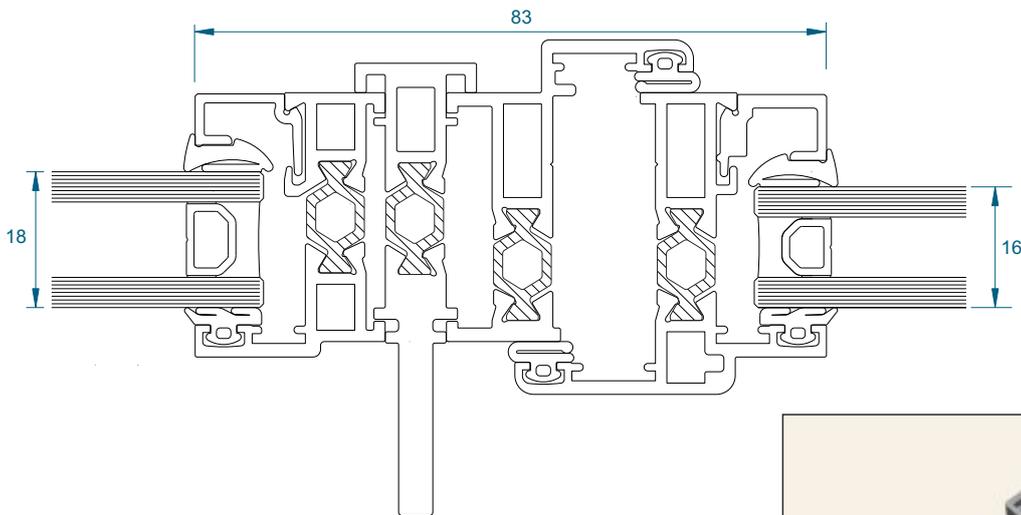


DURATION
WINDOWS

Fixed Next To An Opener (Using Fixed Coupler)



Fixed Next To An Opener (Using Vertical Coupler)



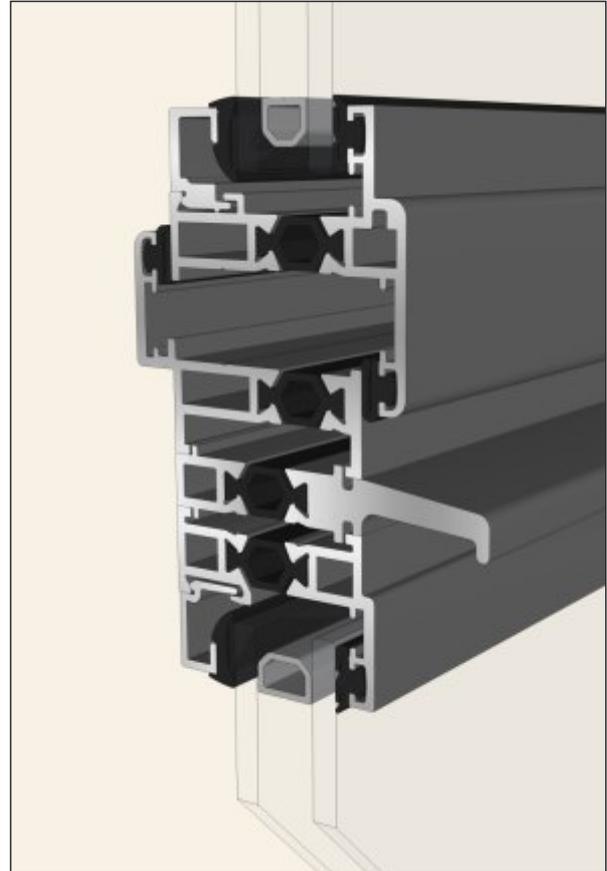
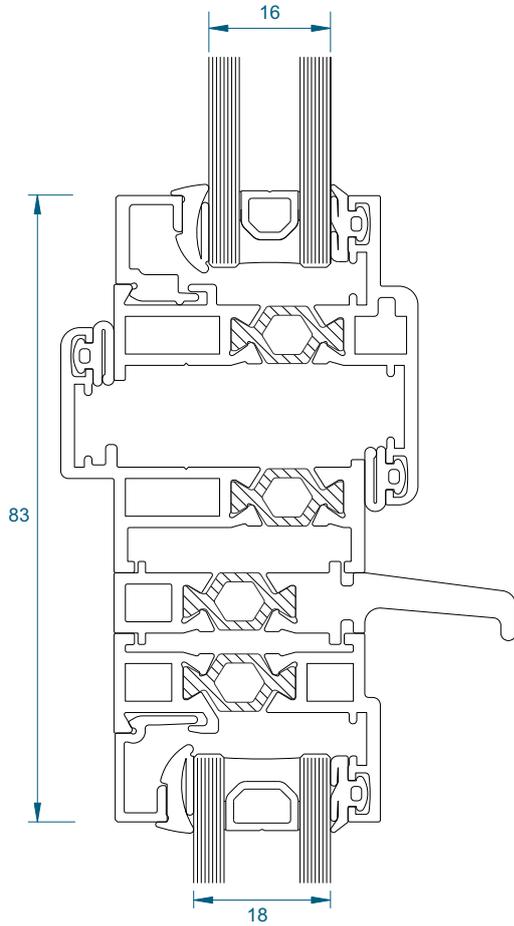
Duration Windows reserves the right to make changes to the product specification as technical developments dictate, and without prior notice. Pictures shown are for illustrative purposes and are not binding in detail, colour or specification.

Coupling Sections



DURATION
WINDOWS

Opener Over A Fixed Window (Using Horizontal Drip Bar Coupler)



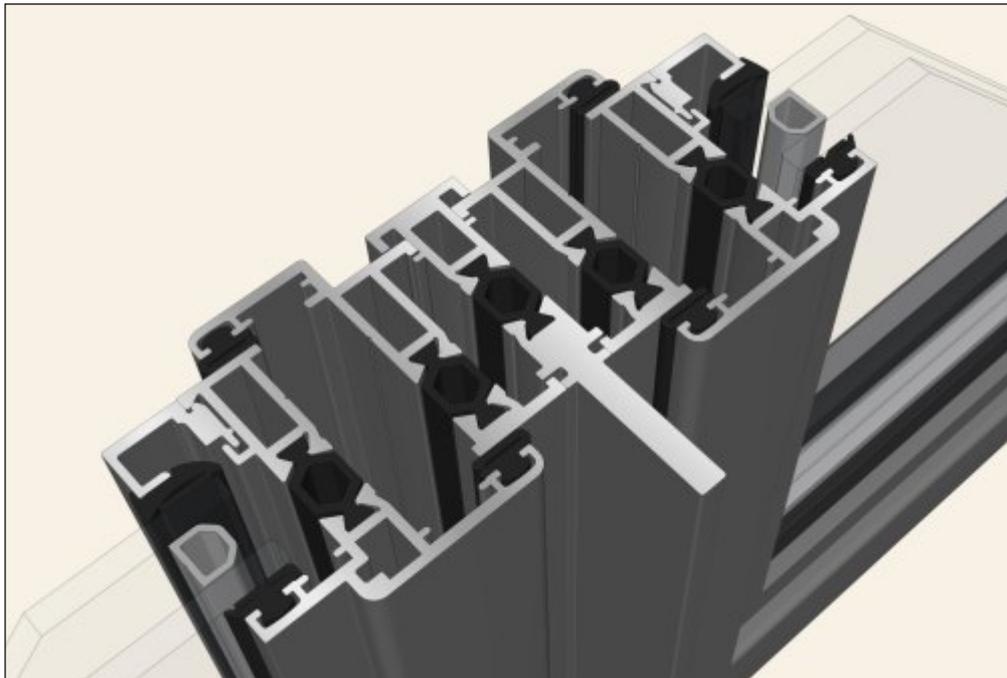
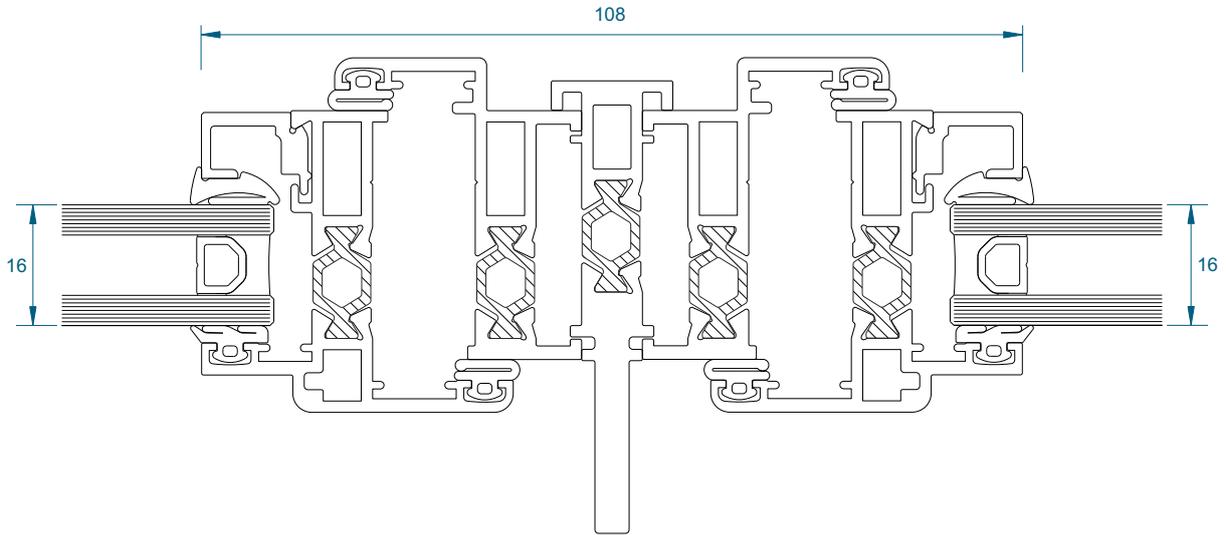
Duration Windows reserves the right to make changes to the product specification as technical developments dictate, and without prior notice. Pictures shown are for illustrative purposes and are not binding in detail, colour or specification.

Coupling Sections



DURATION
WINDOWS

Opener Next To An Opener (Using Vertical Coupler)



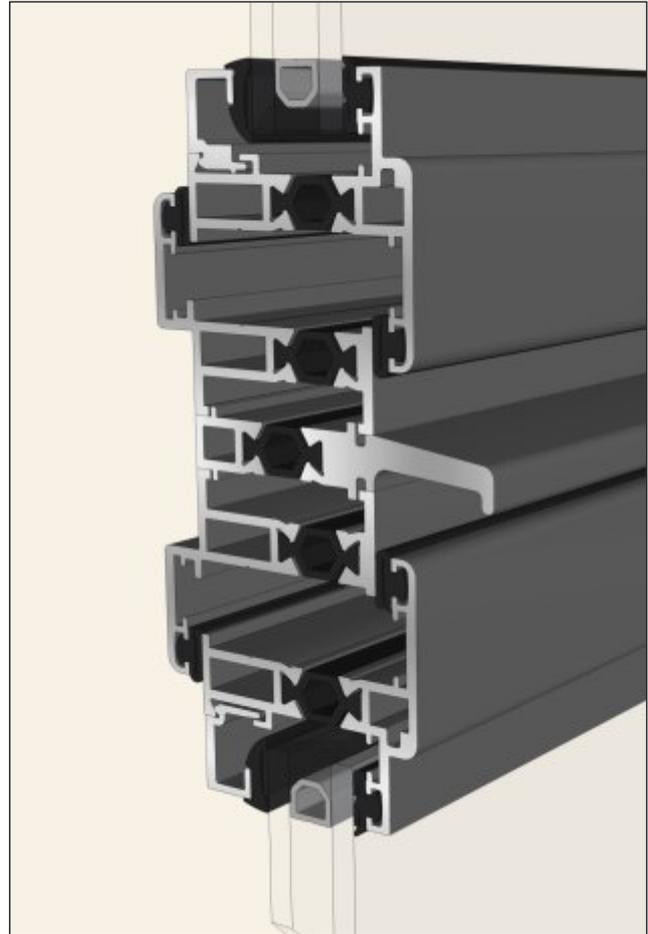
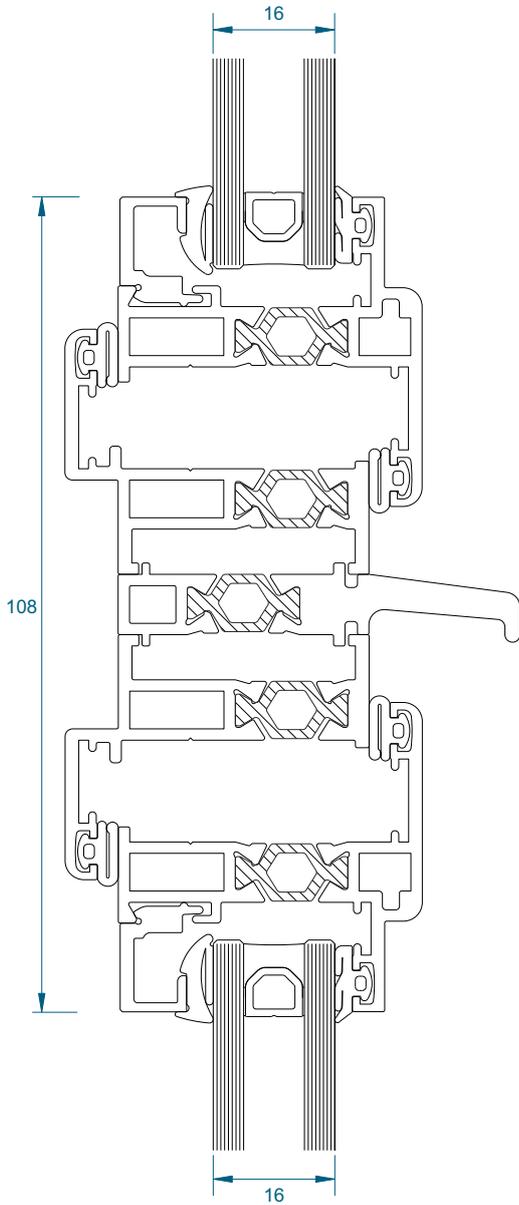
Duration Windows reserves the right to make changes to the product specification as technical developments dictate, and without prior notice. Pictures shown are for illustrative purposes and are not binding in detail, colour or specification.

Coupling Sections



DURATION
WINDOWS

Opener Over An Opener (Using Horizontal Drip Bar Coupler)



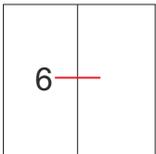
Duration Windows reserves the right to make changes to the product specification as technical developments dictate, and without prior notice. Pictures shown are for illustrative purposes and are not binding in detail, colour or specification.

Coupling Configurations

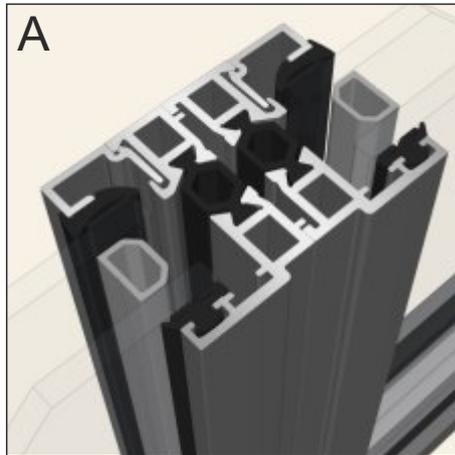
Royale window configurations are made up of individual windows which are then coupled together. Below shows the vertical methods of coupling and overleaf shows the horizontal methods of coupling the Royale window along with some window combinations and the options available when coupling. Please note these coupling bars would not be used in conjunction with the odd leg frame (these would be coupled using new or existing wood frames).

Vertical Coupling

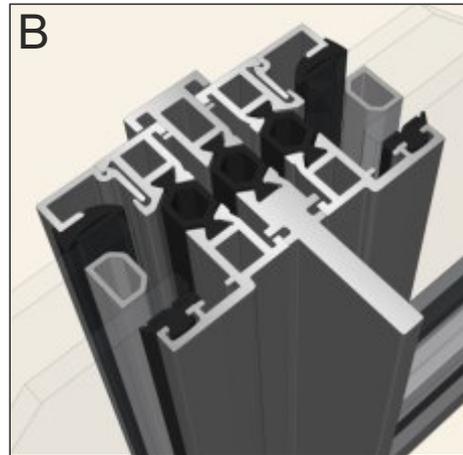
Fixed / Fixed



6: Option A or B

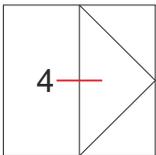


Using Hidden Coupler

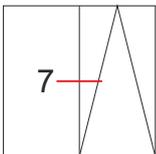


Using Vertical Coupler

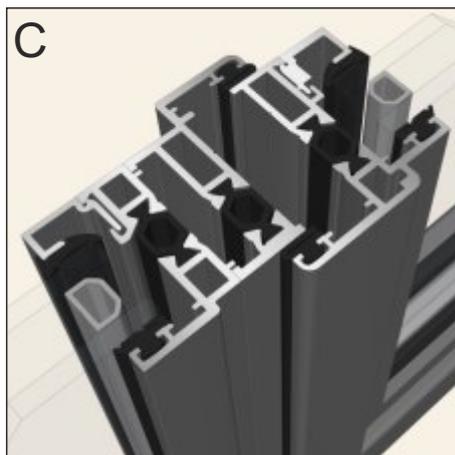
Fixed / Opener



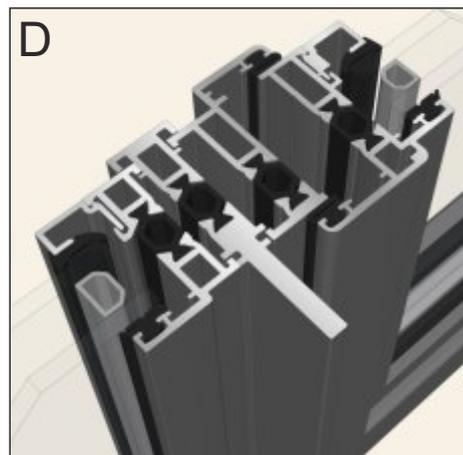
4: Option C or D



7: Option C or D

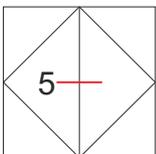


Using Hidden Coupler

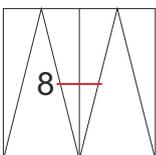


Using Vertical Coupler

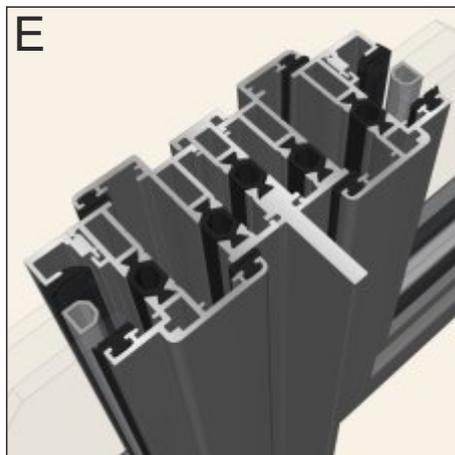
Opener / Opener



5: Option E only



8: Option E only



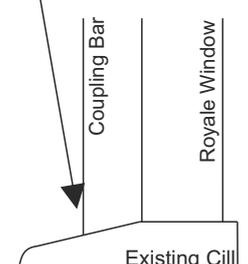
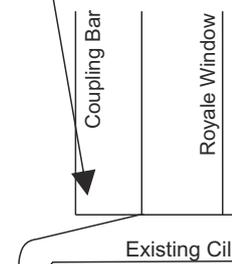
Using Vertical Coupler

Please Note:

The coupler will be cut to the same length as the window unless specified otherwise.

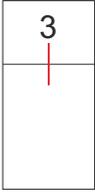
If you have a tiled window cill there may be a small gap as the cill falls away from the window.

If you require we can cut the coupler oversized for you to cut on site to match in with the existing cill.

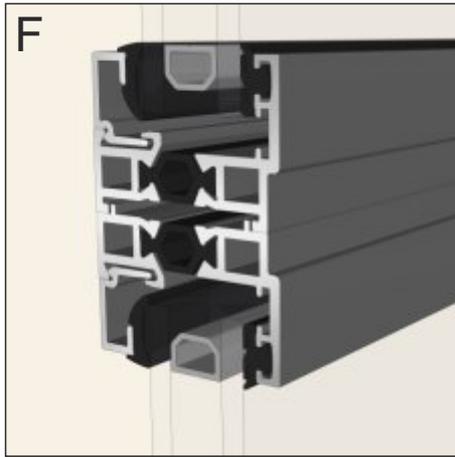


Horizontal Coupling

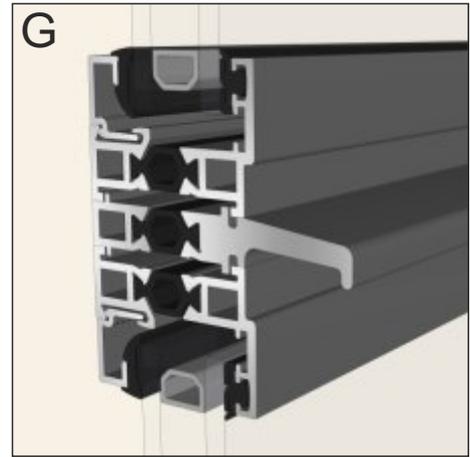
Fixed / Fixed



3: Option F or G

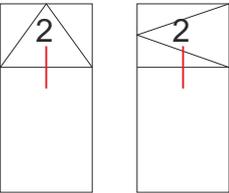


Using Hidden Coupler

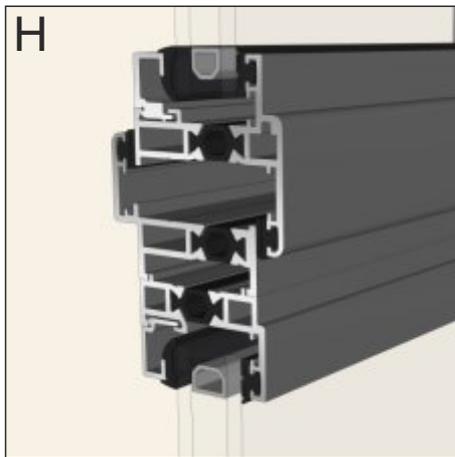


Using Drip Bar Coupler

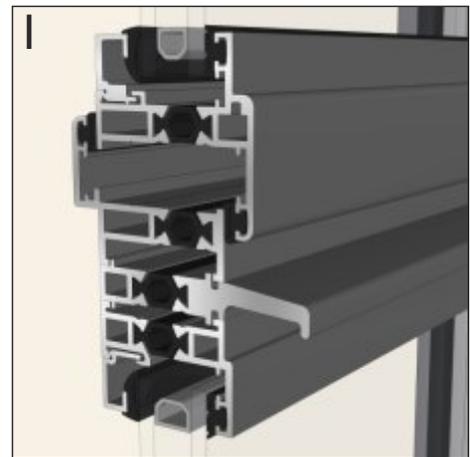
Fixed / Opener



2: Option H or I

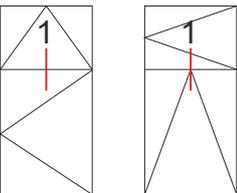


Using Hidden Coupler

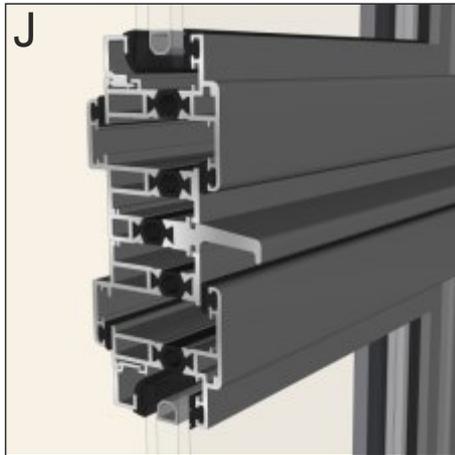


Using Drip Bar Coupler

Opener / Opener

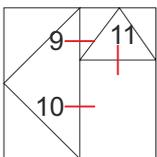


1: Option J Only

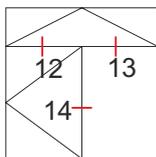


Using Drip Bar Coupler

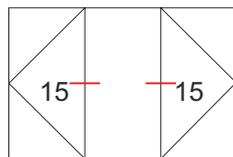
Larger Coupling Configuration Examples



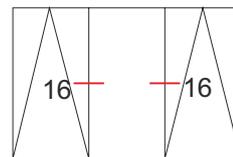
9: Option E only
10: Option D only
11: Option H or I



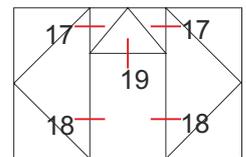
12: Option J only
13: Option I only
14: Option C only



15: Option C or D



16: Option C or D



17: Option E only
18: Option D only
19: Option H or I

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.