



ULLRICH ALUMINIUM
Wintec Architectural Systems

Ultimate Window & Door Systems

Product Guide 2015 Edition



Company Profile

Foreword by Gilbert Ullrich

At the risk of being described as biased, one of the tenets that we at Ullrich Aluminium work to, is that the aluminium age is now upon us. The 21st century will see the fruition of the development of this remarkable product. The stone age, the bronze age, the iron age, the era of steel, and now aluminium will supplant them all!

In our own way, we will have been part of this evolution. Already we have been privileged enough to be involved in the development of an extruded aluminium engine, and this is simply one of the many new technology and development projects that we are assisting on.

Improvements in aluminium metallurgy, quality, and finish promise to revolutionise the properties of this, already versatile, product and it would be fair to say that within our organisation we consider ourselves to be among the advance guard of a new technology. From our engineers building water towers and boats in their spare time, to our draughting personnel using CAD tools to design new profiles in extrusions, we believe that our product is still in its infancy, still exciting, and a sunrise industry if ever there was one.

If you want to know what aluminium can do for you, we think we have a lot of the answers or at least access to them. Talk to us and you will find we have a genuine passion for our product and industry.

Gilbert Ullrich



Ultimate 83mm Sliding Window



All Wintec Architectural Systems products are tested to conform to Australian Standards and the National Construction Code.

Framing

The Ultimate sliding window is available in 83mm frame width. The frame can be adapted to incorporate a fixing fin. This window can be single glazed or double glazed up to 18mm thickness by using alternative sash extrusions

Structural

The hollow vertical sash members add strength and rigidity to the window. Continuous perimeter framing of combination windows gives stability to the assembly. An extensive range of interchangeable interlocks is available to suit required wind loads. The sliding window will accommodate sash heights of up to 1800mm.

Weather

A drained hollow sill ensures superior water penetration resistance; with a minimum rating of 250Pa. Sub-framing can be added to increase the weathering performance. High performance weather seals in the frame produce a very low level of air infiltration.

Maintenance

High performance engineered polymer rollers with stainless steel bearings ensures long trouble free operation.

Aesthetics

There are no unfinished or exposed edges. All cut ends of extrusions are capped for safety.

Options

Provision for insect screens is built into the frame.

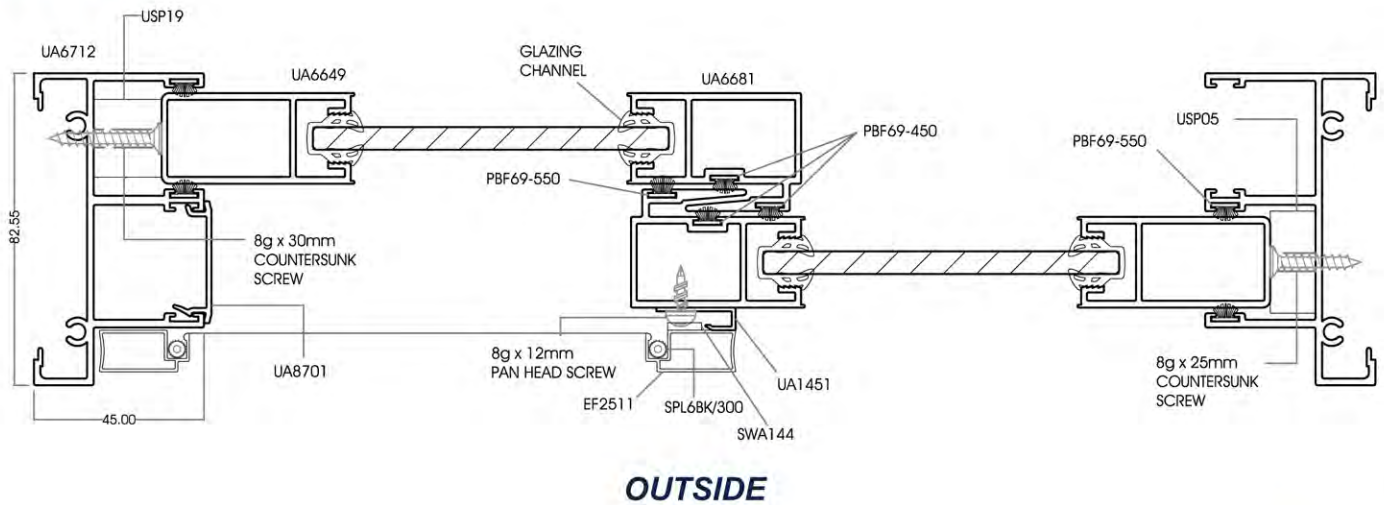
- Provision for insect screens built into the frame
- Hollow vertical sash members for strength and rigidity
- Extensive range of interchangeable interlocks to suit required wind load
- High performance weather seals for increased air infiltration resistance
- Optional sub-frame available



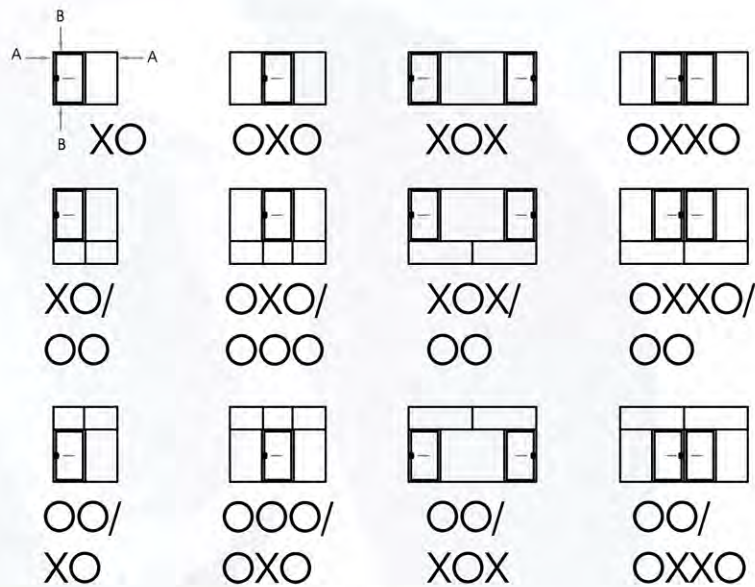
Ultimate 83mm Sliding Window

Technical Configurations - Scale 1:2

A - A



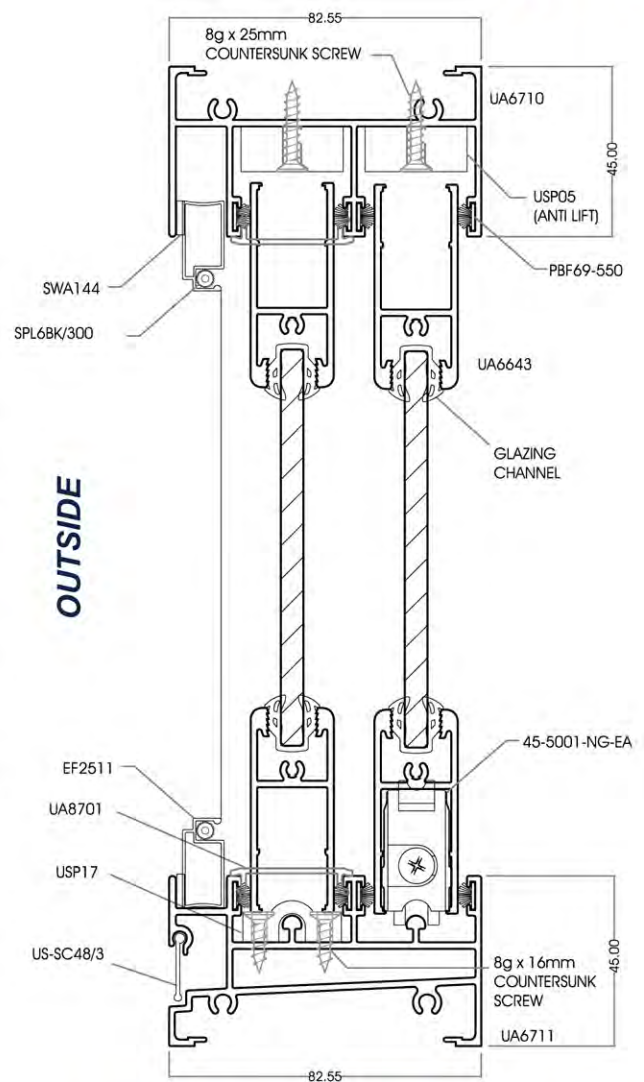
Ultimate 83mm Sliding Window - VIEW FROM OUTSIDE



X - Sliding
O - Fixed

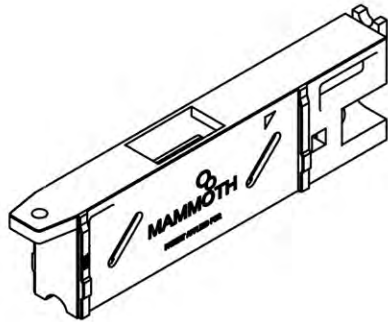
**Contact your local Fabricator
for other configuration options.**

B - B

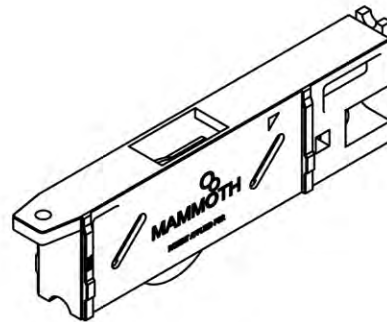


CROSS SECTIONS

Ultimate 83mm Sliding Window Hardware

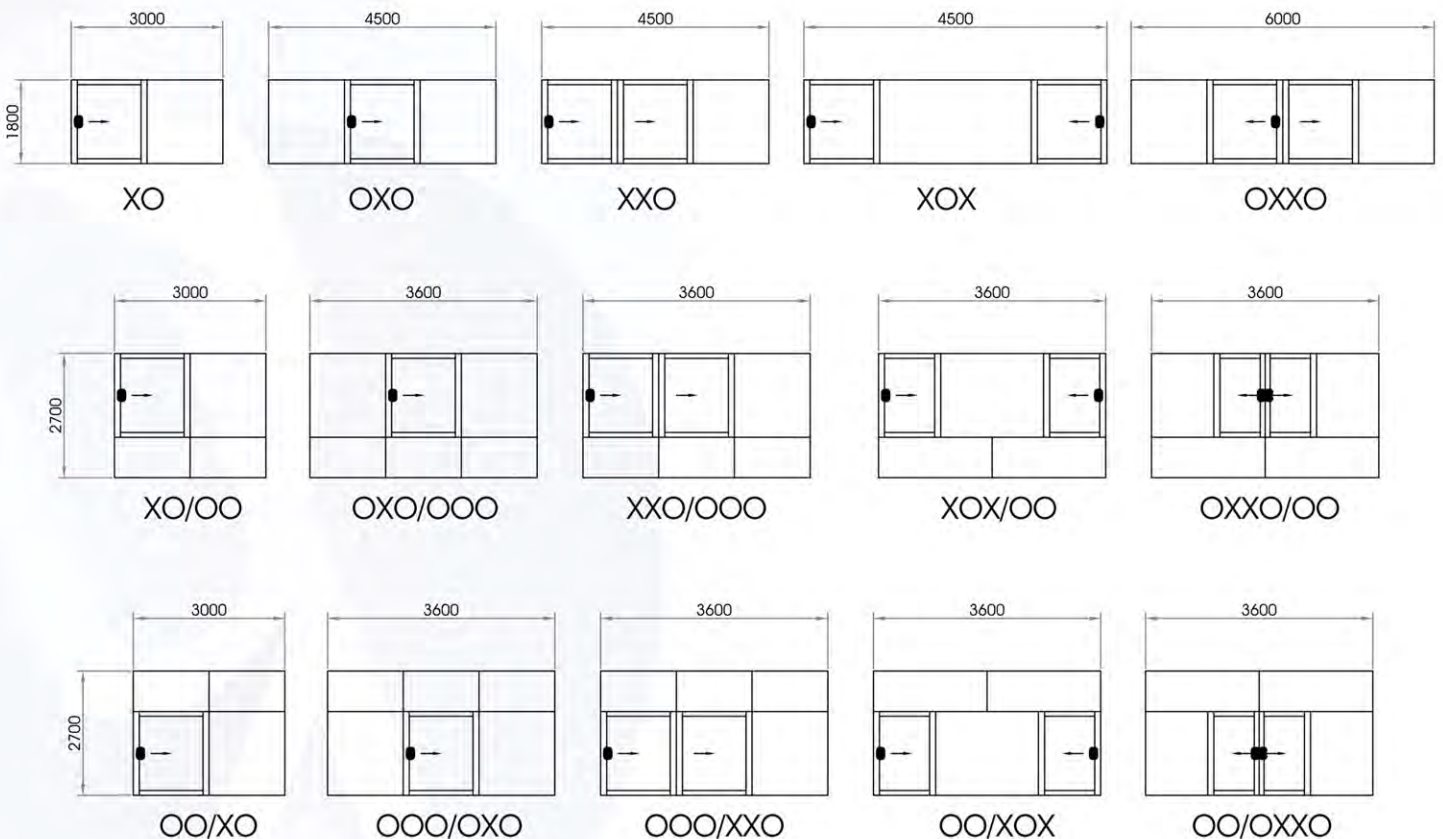


45-5001-NG-EA
ROLLER (80kg SASH)



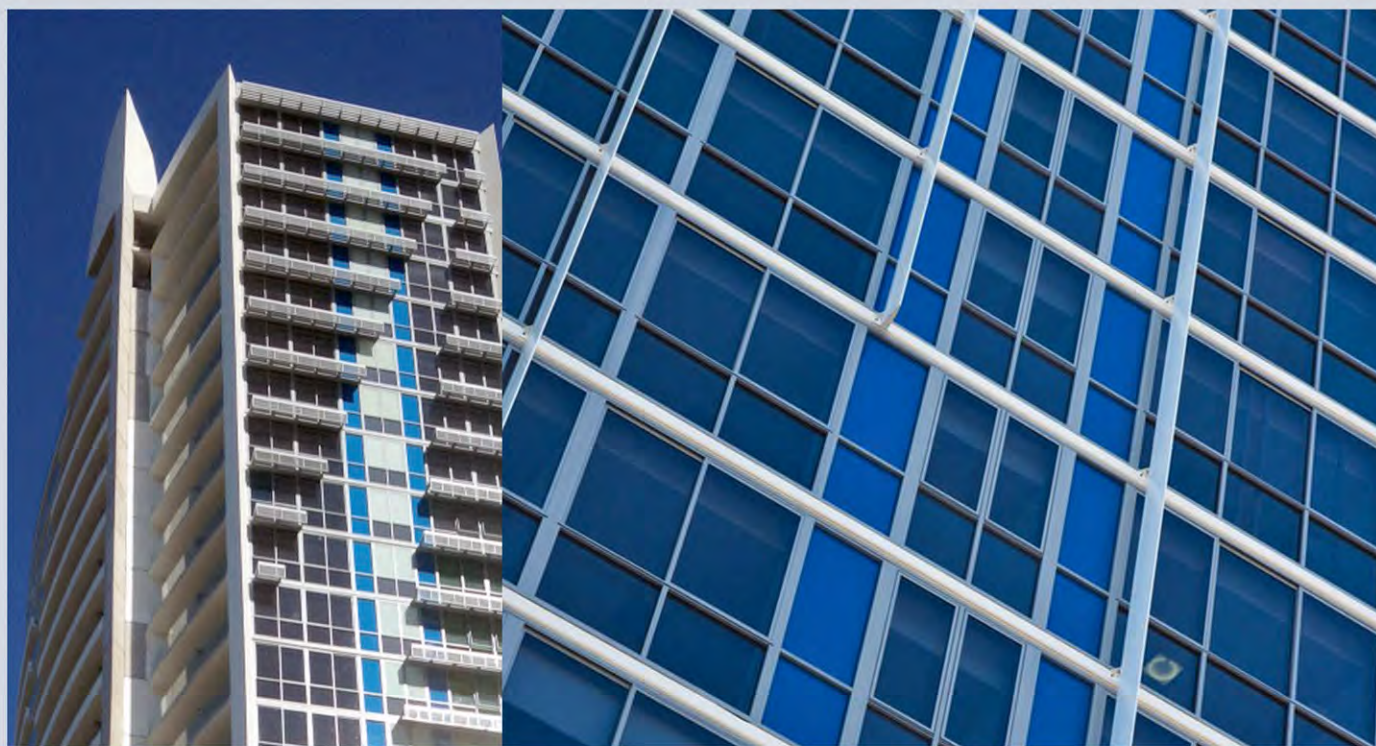
45-5001-G
ADJUSTABLE
FIXED BLOCK

Ultimate 83mm Sliding Window - Maximum Sizes



SPECIFICATIONS

Ultimate 100mm Sliding Window



All Wintec Architectural Systems products are tested to conform to Australian Standards and the National Construction Code.

Framing

The Ultimate sliding window is available in 100mm frame width. The frame can be adapted to incorporate a fixing fin. This window can be single glazed or double glazed up to 18mm thickness by using alternative sash extrusions.

Structural

The hollow vertical sash members add strength and rigidity to the window. Continuous perimeter framing of combination windows gives stability to the assembly. An extensive range of interchangeable interlocks is available to suit required wind loads. The sliding window will accommodate sash heights of up to 1800mm.

Weather

A drained hollow sill ensures superior water penetration resistance; with a minimum performance of 300Pa. Sub-framing can be added to increase the weathering performance. High performance weather seals in the frame produce a very low level of air infiltration.

Maintenance

High performance engineered polymer rollers with stainless steel bearings ensures long trouble free operation.

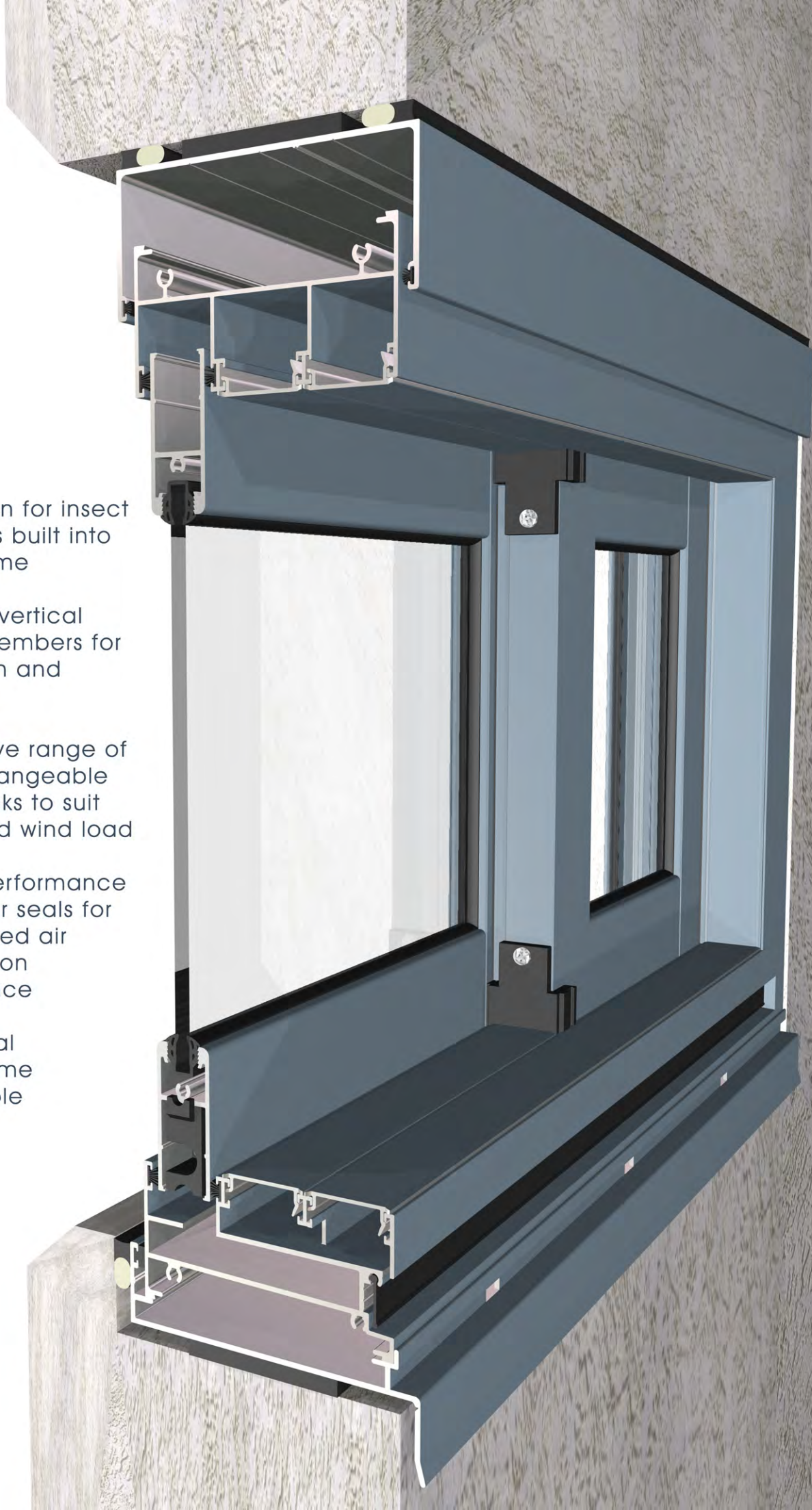
Aesthetics

There are no unfinished or exposed edges. All cut ends of extrusions are capped for safety. External horizontal and vertical tracks are capped to provide a flush finish.

Options

Provision for insect screens is built into the frame.

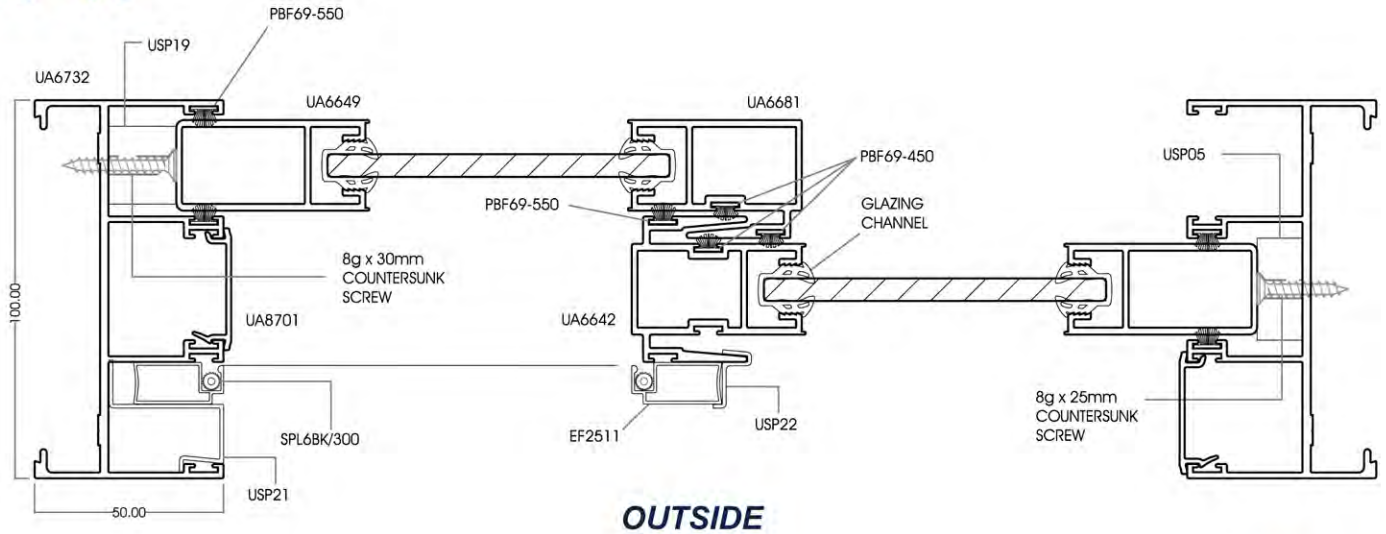
- Provision for insect screens built into the frame
- Hollow vertical sash members for strength and rigidity
- Extensive range of interchangeable interlocks to suit required wind load
- High performance weather seals for increased air infiltration resistance
- Optional sub-frame available



Ultimate 100mm Sliding Window

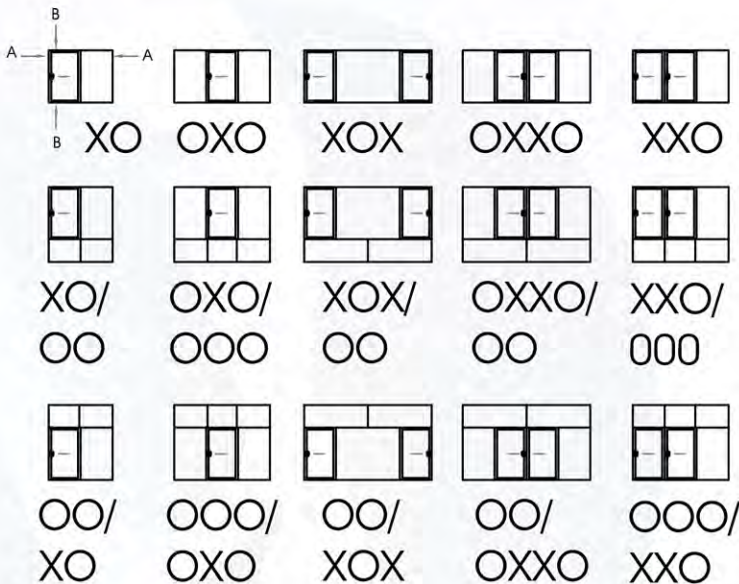
Technical Configurations - Scale 1:2

A - A



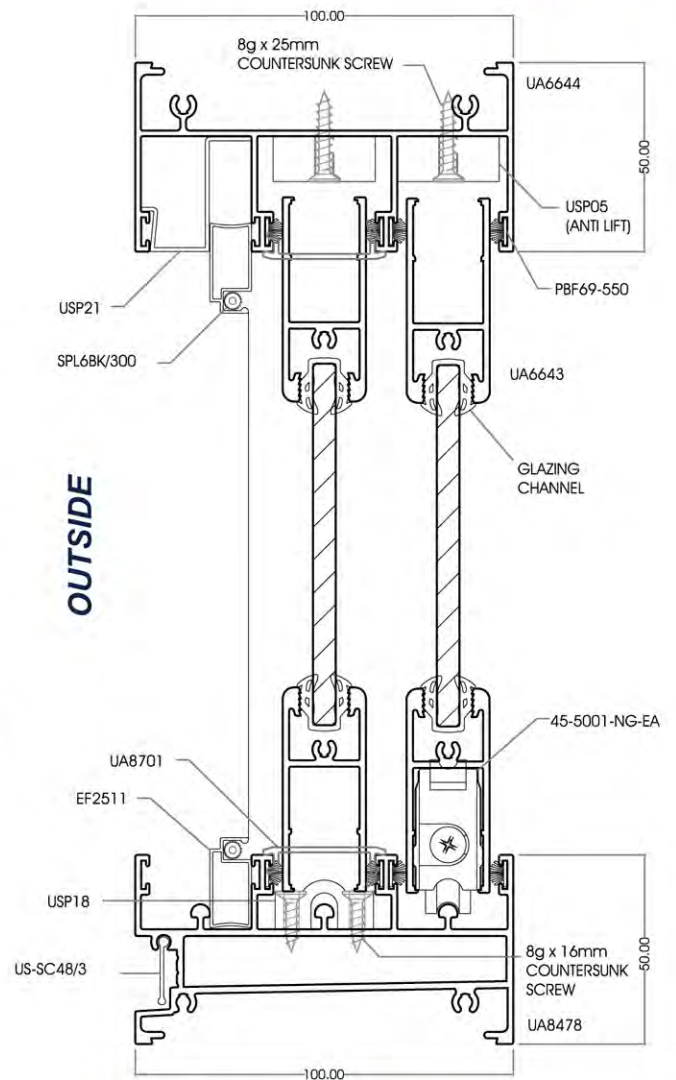
B - B

Ultimate 100mm Sliding Window - VIEW FROM OUTSIDE



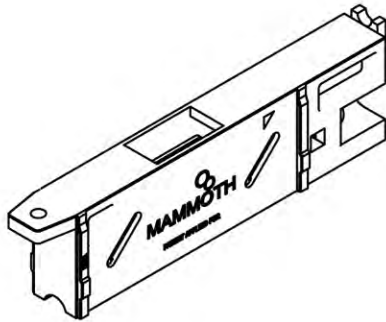
X - Sliding
O - Fixed

**Contact your local Fabricator
for other configuration options.**

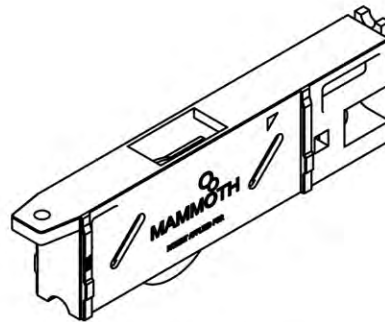


CROSS SECTIONS

Ultimate 100mm Sliding Window Hardware

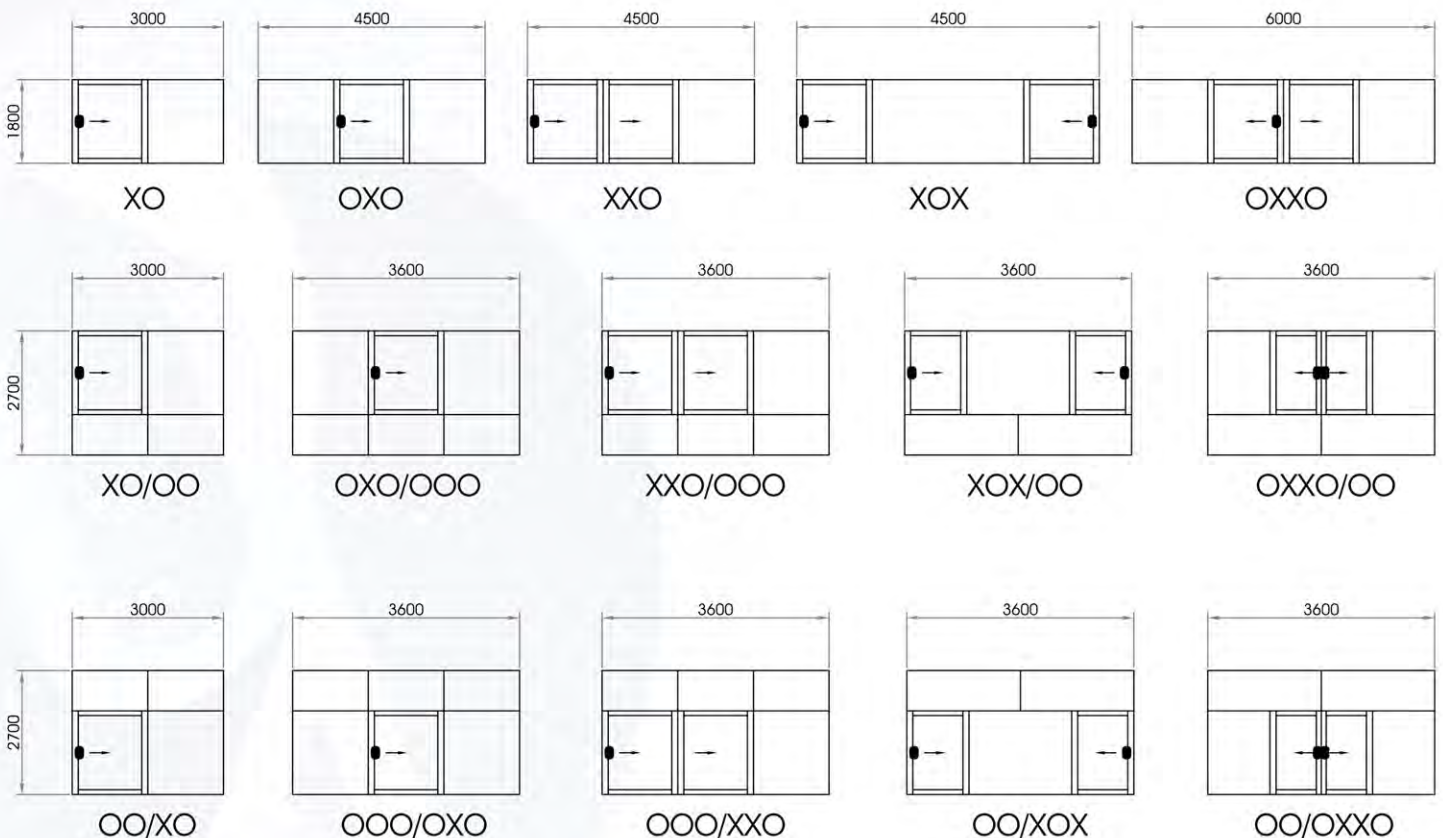


45-5001-NG-EA
ROLLER (80kg SASH)



45-5001-G
ADJUSTABLE
FIXED BLOCK

Ultimate 100mm Sliding Window - Maximum Sizes



SPECIFICATIONS

Ultimate 83mm Double Hung Window



All Wintec Architectural Systems products are tested to conform to Australian Standards and the National Construction Code.

Framing

The Ultimate double hung window is available in 83mm frame width. The frame can be adapted to incorporate a fixing fin. This window can be single glazed or double glazed up to 18mm thickness by using alternative sash extrusions.

Structural

The hollow sash members add strength and rigidity to the window. Continuous perimeter framing of combination windows gives stability to the assembly.

Weather

A drained sill ensures superior water penetration resistance; with minimum performance of 300Pa. Sub-framing can be added to increase the weathering performance. High performance weather seals in the frame produce a very low level of air infiltration.

Maintenance

Engineered polymer sash guides ensure free and easy operation of the sashes. Predetermined weight carrying capacity of the sash balance mechanisms provide effortless operation of the windows, requiring no adjustment.

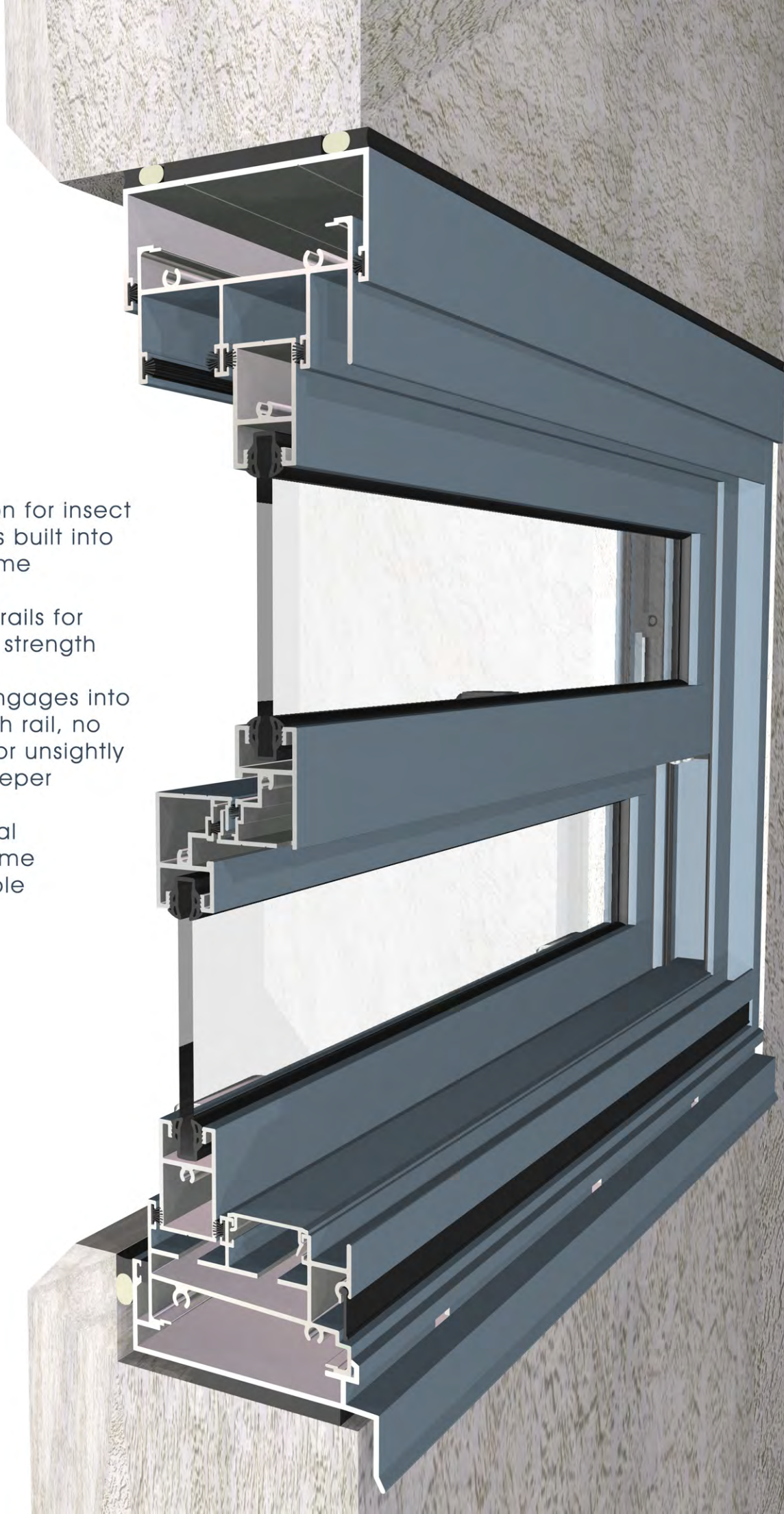
Aesthetics

The lock engages into the sash rail, there is no need for an unsightly lock keeper.

Options

Provision for insect screens is built into the frame.

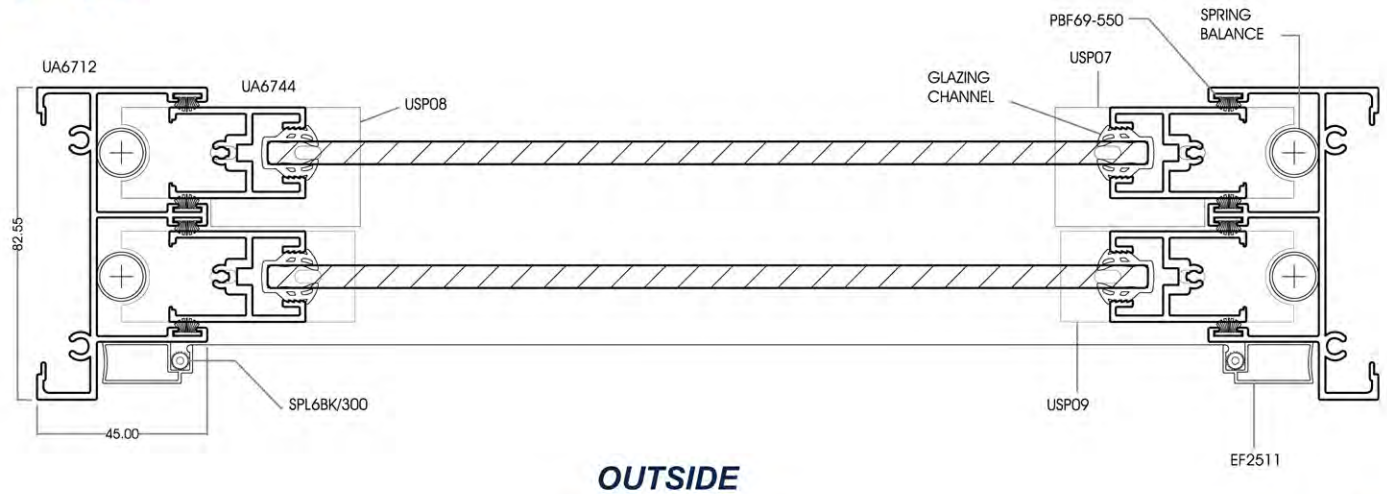
- Provision for insect screens built into the frame
- Hollow rails for added strength
- Lock engages into the sash rail, no need for unsightly lock keeper
- Optional sub-frame available



Ultimate 83mm Double Hung Window

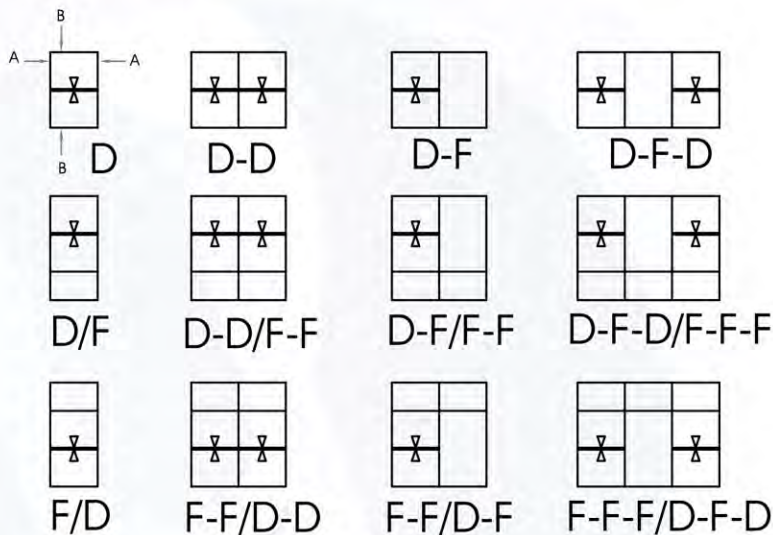
Technical Configurations - Scale 1:2

A - A



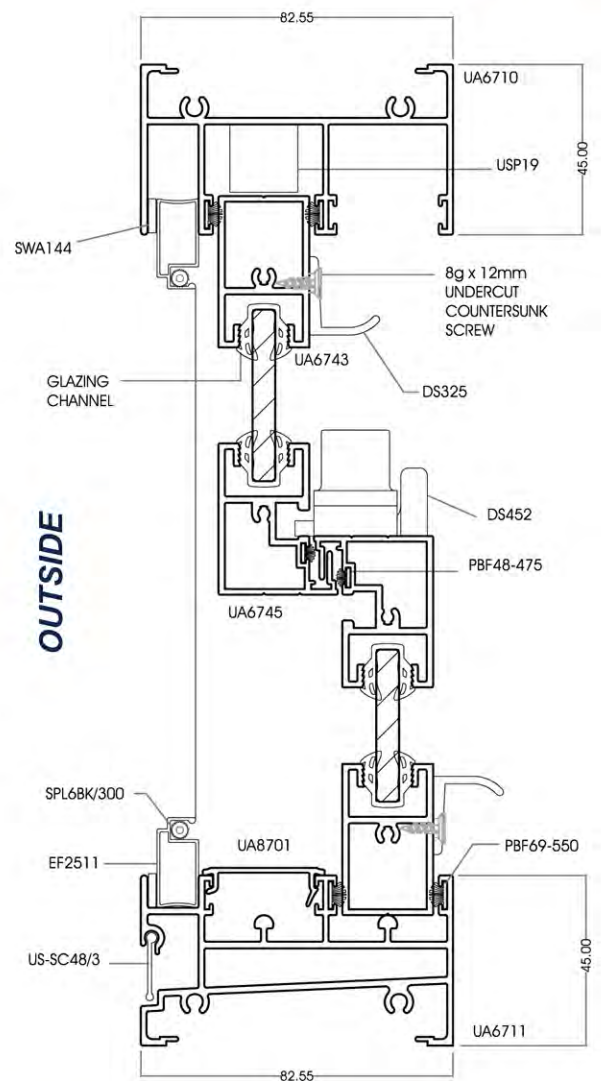
B - B

Ultimate 83mm Double Hung Window - VIEW FROM OUTSIDE



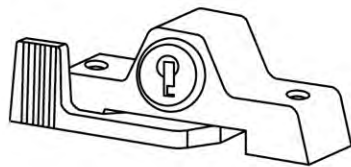
D - Double Hung
F - Fixed

**Contact your local Fabricator
for other configuration options.**

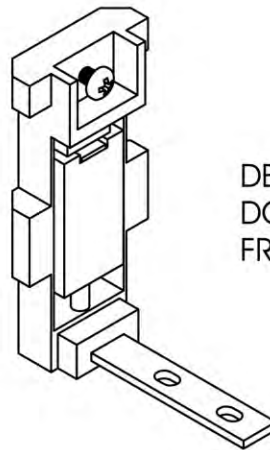


CROSS SECTIONS

Ultimate 83mm Double Hung Window Hardware

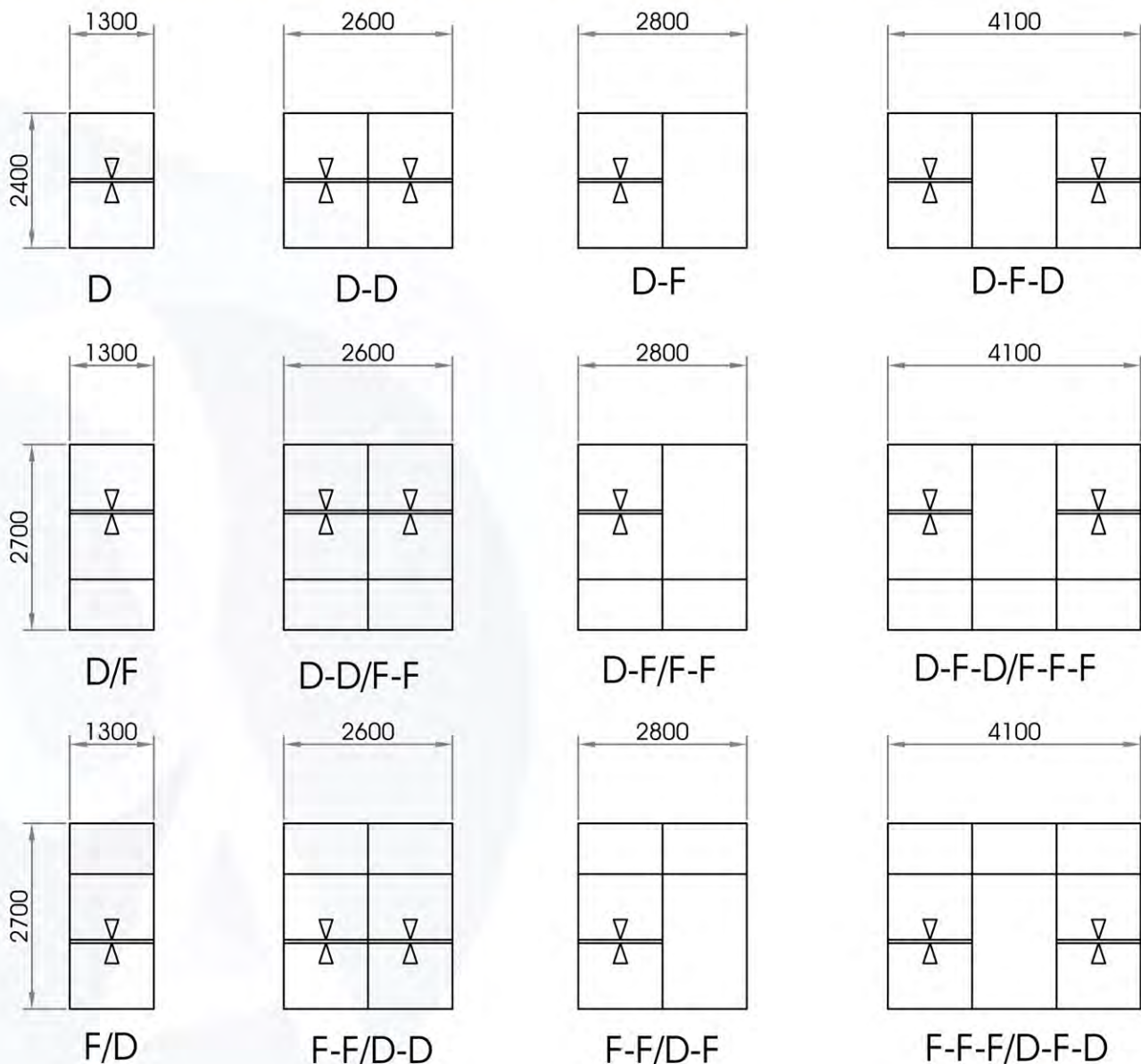


DS452
DORIC DOUBLE
HUNG LOCK



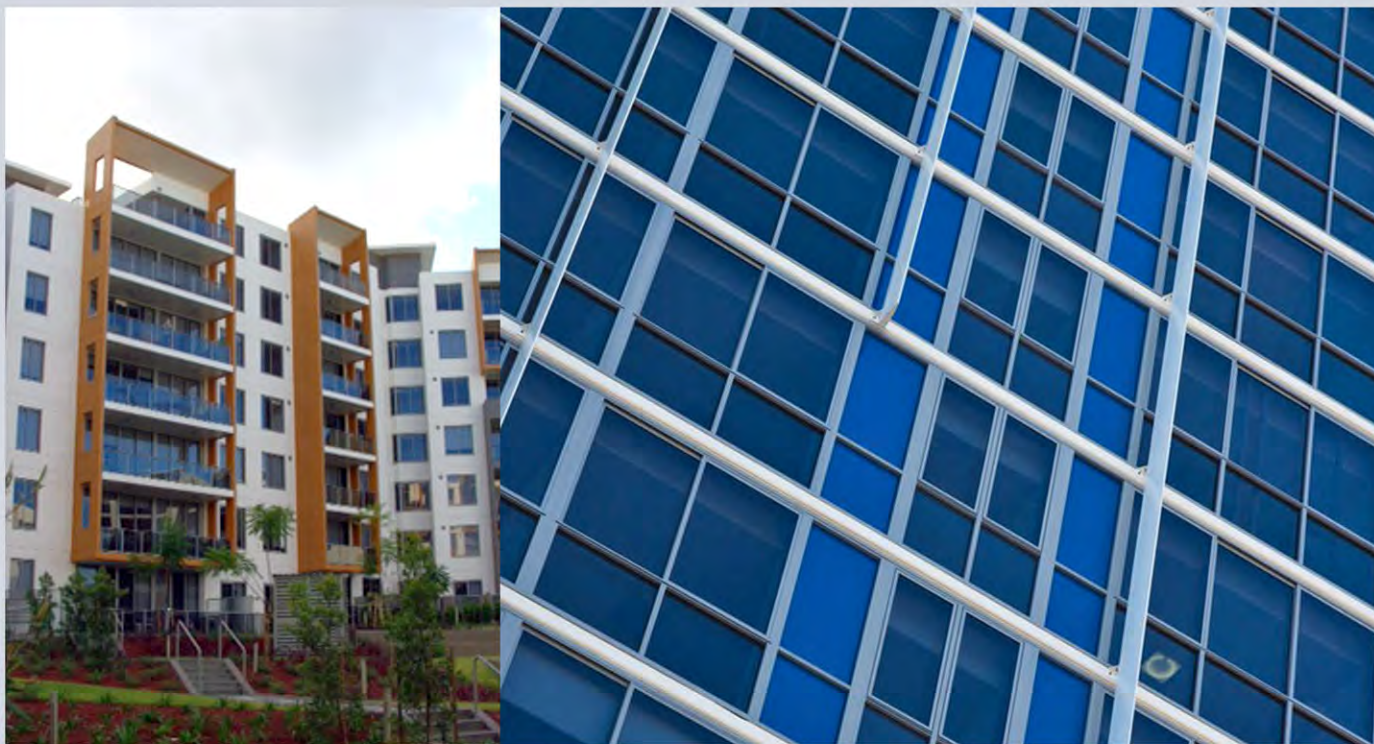
DB0727
DORIC
FRICTION FEET

Ultimate 83mm Double Hung Window - Maximum Sizes



SPECIFICATIONS

Ultimate 100mm Double Hung Window



All Wintec Architectural Systems products are tested to conform to Australian Standards and the National Construction Code.

Framing

The Ultimate double hung window is available in 100mm frame width. The frame can be adapted to incorporate a fixing fin. This window can be single glazed or double glazed up to 18mm thickness by using alternative sash extrusions.

Structural

The hollow sash members add strength and rigidity to the window. Continuous perimeter framing of combination windows gives stability to the assembly.

Weather

A drained sill ensures superior water penetration resistance; with minimum performance of 300Pa. Sub-framing can be added to increase the weathering performance. High performance weather seals in the frame produce a very low level of air infiltration.

Maintenance

Engineered polymer sash guides ensure free and easy operation of the sashes. Predetermined weight carrying capacity of the sash balance mechanisms provide effortless operation of the windows, requiring no adjustment.

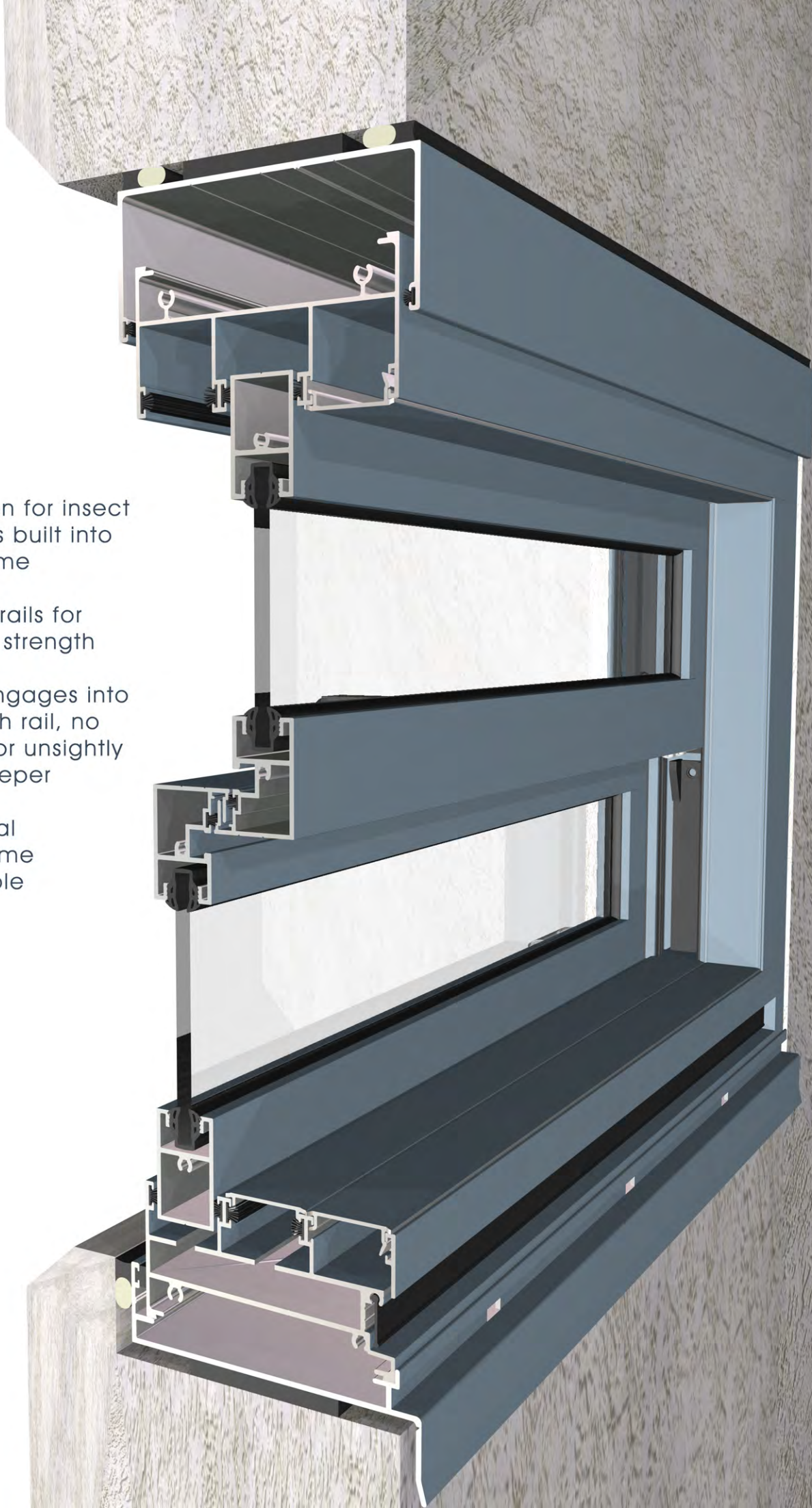
Aesthetics

The lock engages into the sash rail, there is no need for an unsightly lock keeper.

Options

Provision for insect screens is built into the frame.

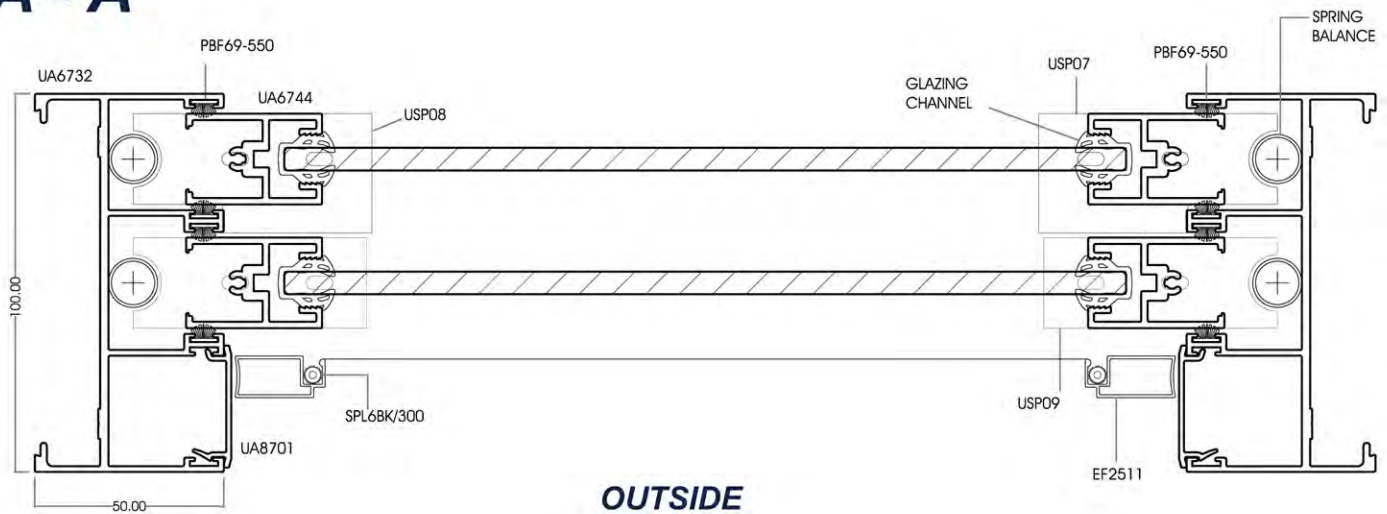
- Provision for insect screens built into the frame
- Hollow rails for added strength
- Lock engages into the sash rail, no need for unsightly lock keeper
- Optional sub-frame available



Ultimate 100mm Double Hung Window

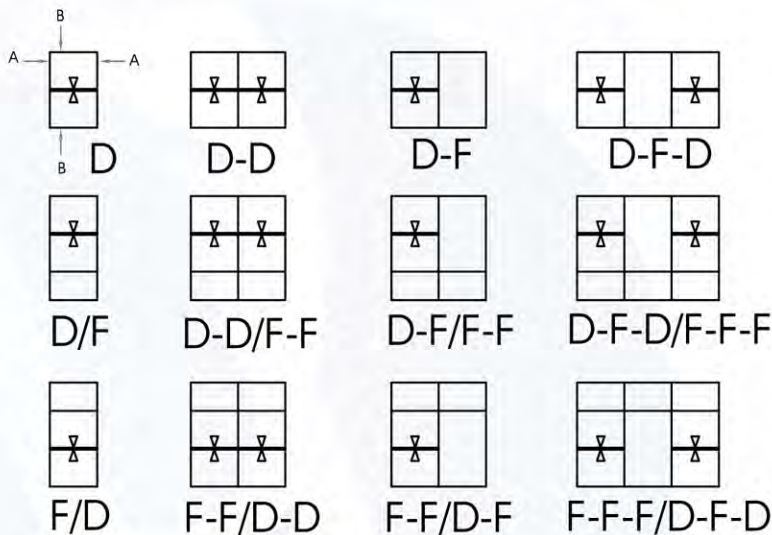
Technical Configurations - Scale 1:2

A - A



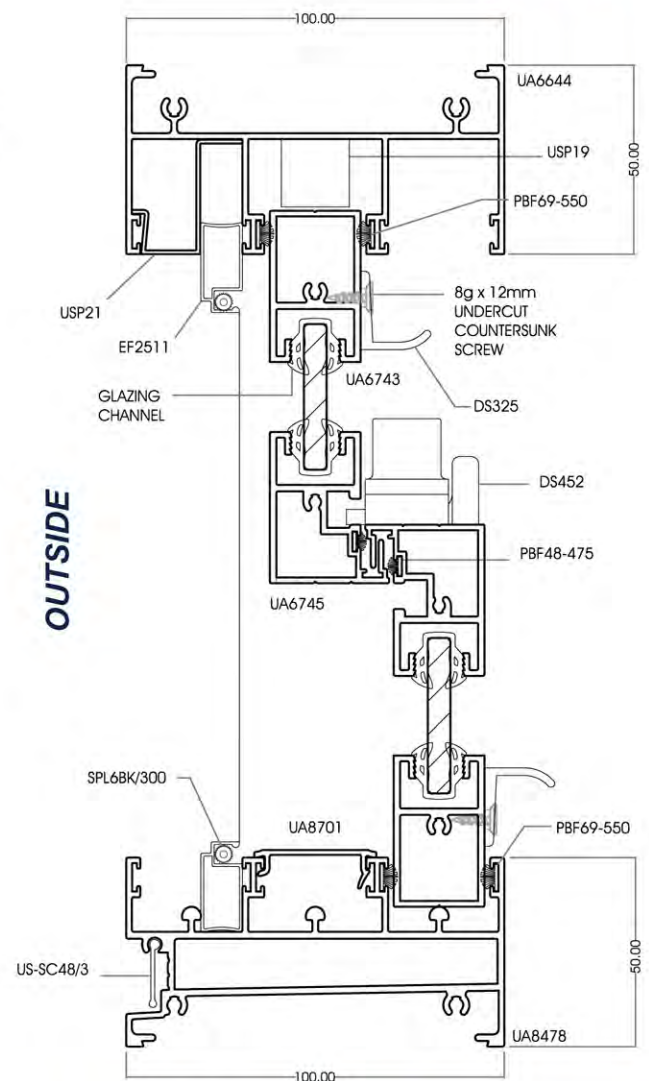
B - B

Ultimate 100mm Double Hung Window -
VIEW FROM OUTSIDE



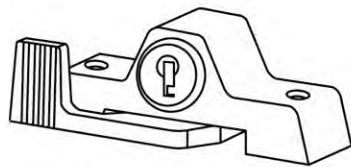
D - Double Hung
F - Fixed

Contact your local Fabricator
for other configuration options.

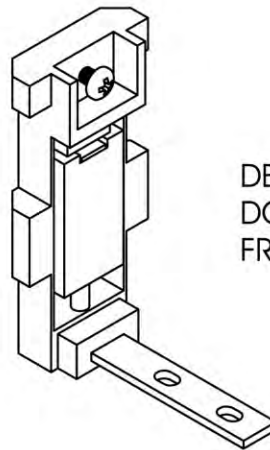


CROSS SECTIONS

Ultimate 100mm Double Hung Window Hardware

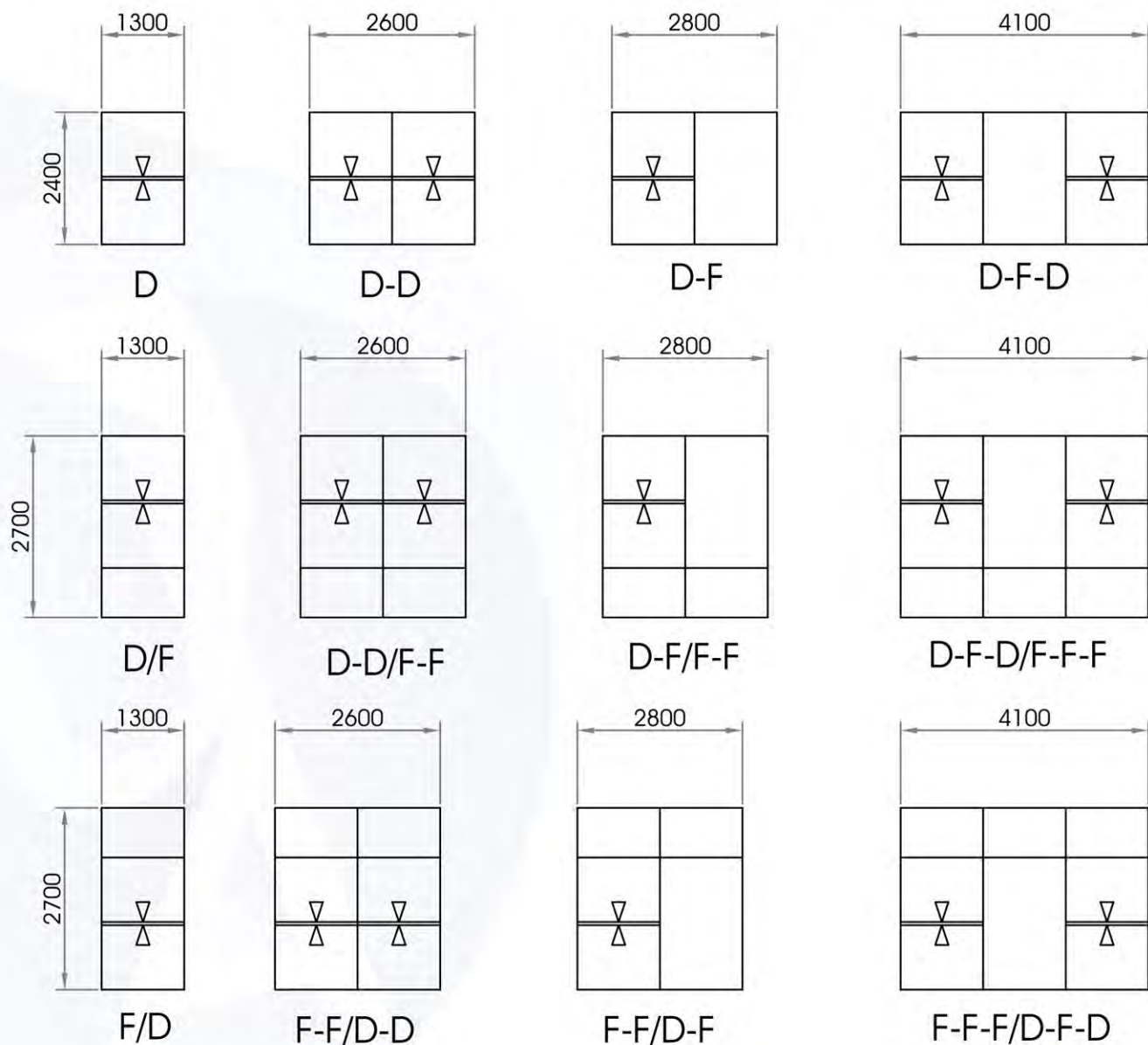


DS452
DORIC DOUBLE
HUNG LOCK



DB0727
DORIC
FRICTION FEET

Ultimate 100mm Double Hung Window - Maximum Sizes



SPECIFICATIONS

Ullimate 83mm Awning Window



All Wintec Architectural Systems products are tested to conform to Australian Standards and the National Construction Code.

Framing

The Ullimate awning window is available in 83mm frame width. The frame can be adapted to incorporate a fixing fin. This window can be single glazed or double glazed up to 30mm thickness with the use of alternate glazing beads.

Structural

Hollow sash extrusions with extruded aluminium spigots provide exceptional strength and rigidity to the window. One piece transom extrusions ensure high performance under high wind loads.

Weather

A drained sill ensures superior water penetration resistance, with a 500Pa minimum rating. Sub-framing can be added to increase the weathering performance to 700Pa. High performance weather seals in the frame produce a very low level of air infiltration.

Maintenance

The continuous extruded sash hinge incorporated in the framing stabilises sash operation and ensures maintenance free operation.

Aesthetics

The standard 36mm deep sash gives clear sight lines within the frame, or the optional 55mm sash gives a more pronounced bold look and feel to the window.

Options

Provision for insect screens is built into the frame.

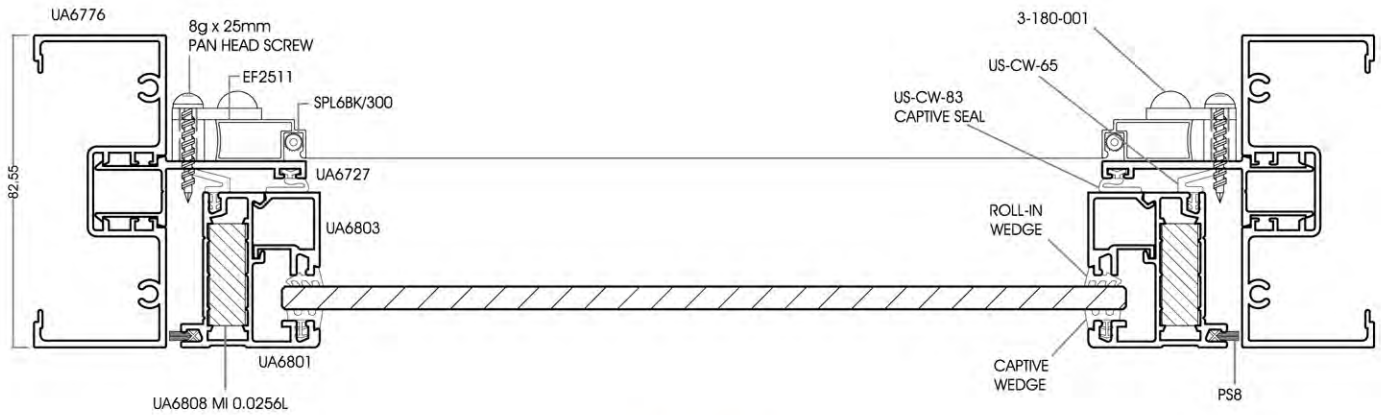
- Standard 36mm sash or optional 55mm sash profile
- Provision for insect screens built into the frame
- Continuous extruded sash hinge stabilises sash operation
- Integral winding mechanism housing
- Heavy aluminium corner stakes for extreme rigidity of sash
- Optional sub-frame available



Ultimate 83mm Awning Window

Technical Configurations - Scale 1:2

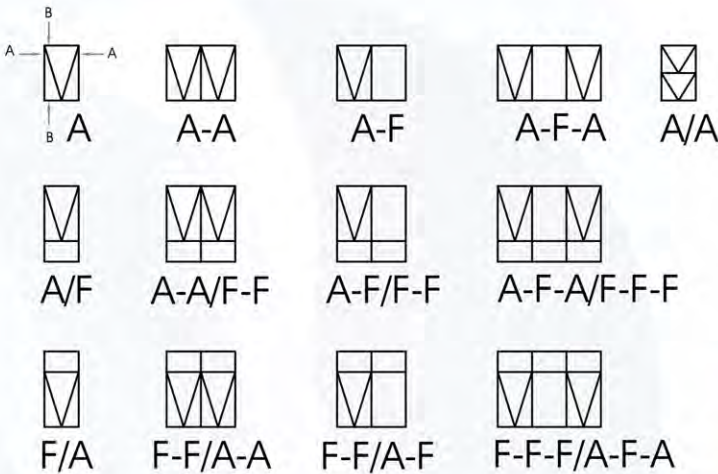
A - A



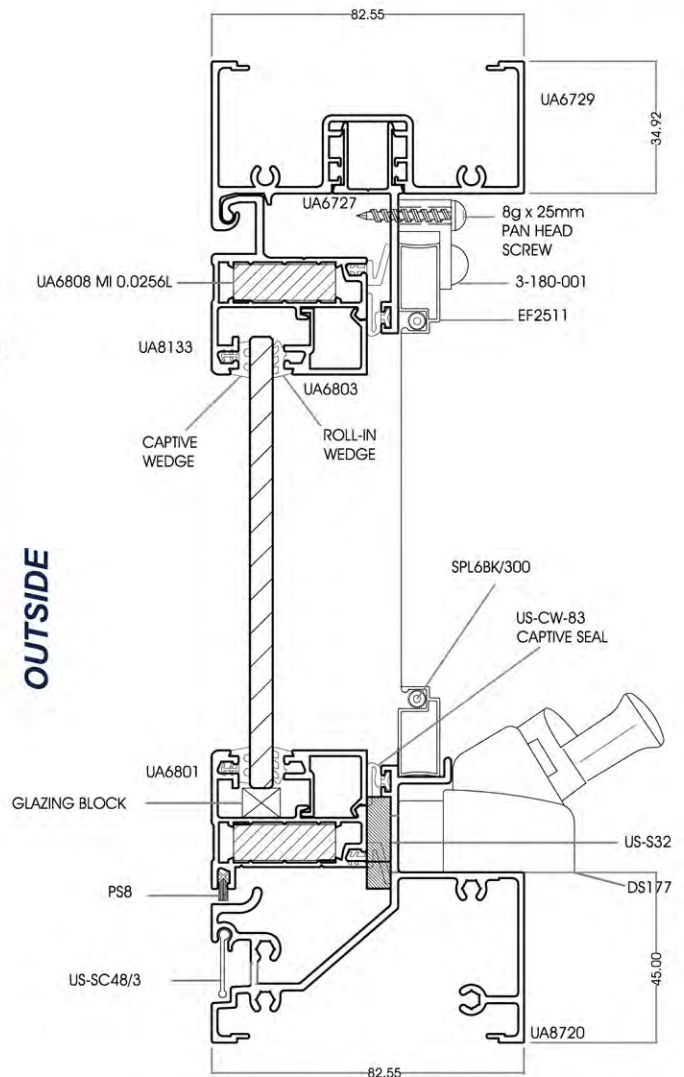
OUTSIDE

B - B

Ultimate 83mm Awning Window - VIEW FROM OUTSIDE



OUTSIDE

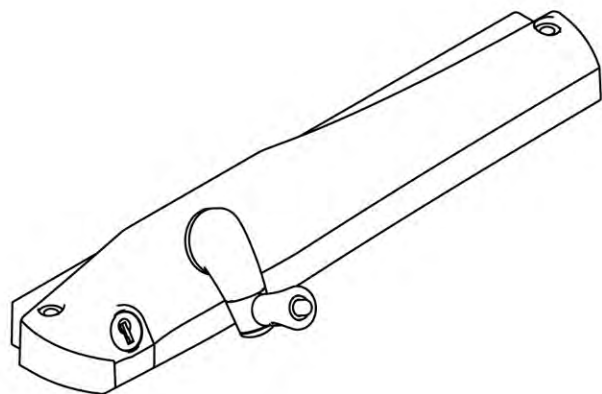


A - Awning
F - Fixed

Contact your local Fabricator
for other configuration options.

CROSS SECTIONS

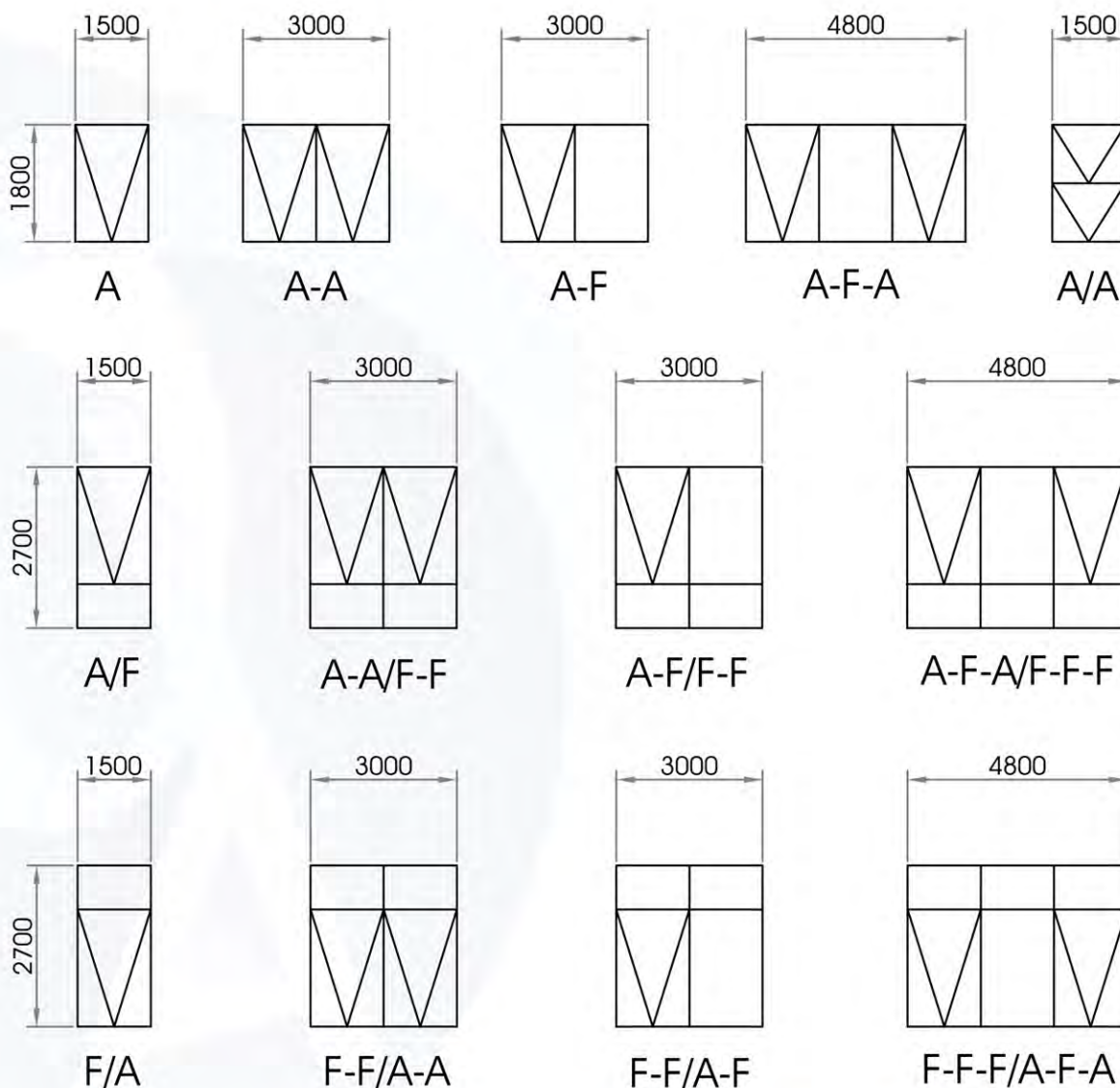
Ultimate 83mm Awning Window Hardware



DS177
DORIC AWNING
CHAIN WINDER

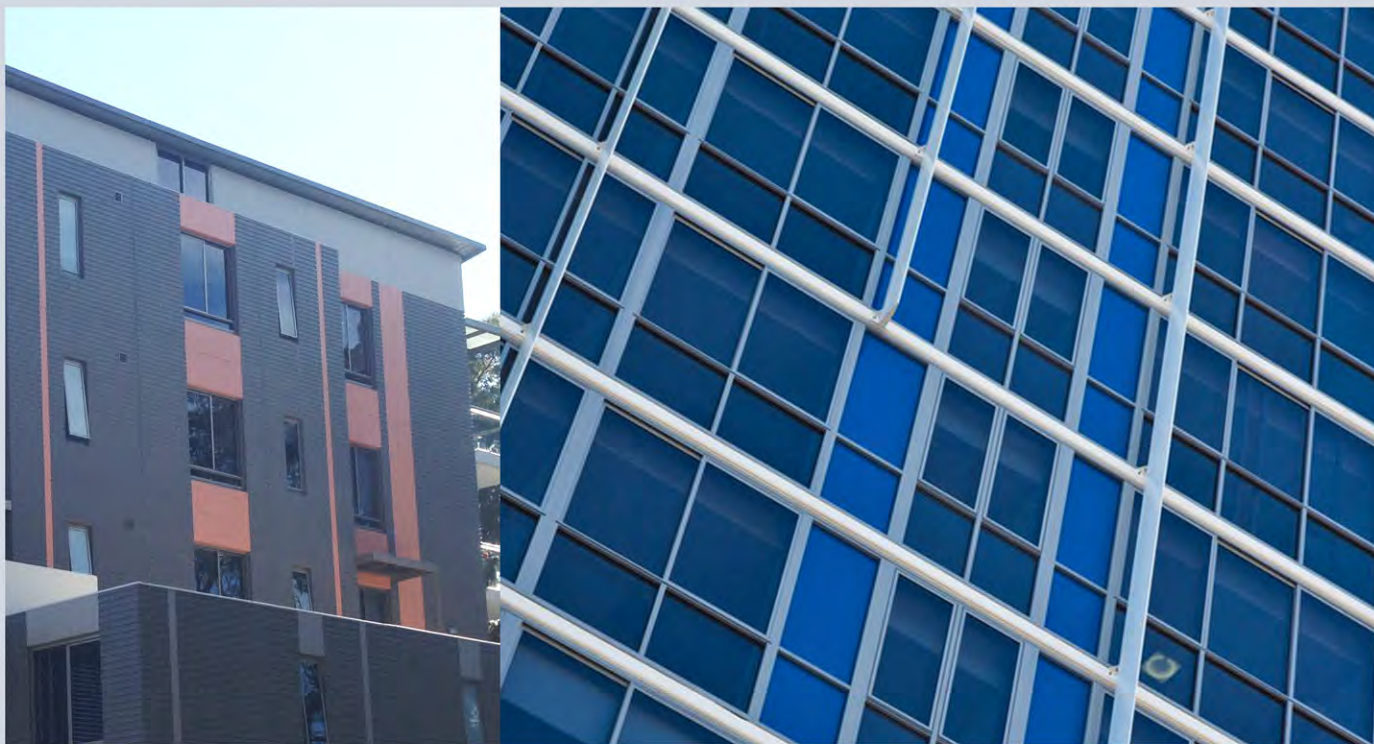
NOTE: 30KG MAX. SASH WEIGHT

Ultimate 83mm Awning Window - Maximum Sizes



SPECIFICATIONS

Ultimate 100mm Awning Window



All Wintec Architectural Systems products are tested to conform to Australian Standards and the National Construction Code.

Framing

The Ultimate awning window is available in 100mm frame width. The frame can be adapted to incorporate a fixing fin. This window can be single glazed or double glazed up to 30mm thickness with the use of alternate glazing beads.

Structural

Hollow sash extrusions with extruded aluminium spigots provide exceptional strength and rigidity to the window. One piece transom extrusions ensure high performance under high wind loads.

Weather

A drained sill ensures superior water penetration resistance; with a minimum performance of 400Pa. Sub-framing can be added to increase the weathering performance. High performance weather seals in the frame produce a very low level of air infiltration.

Maintenance

The continuous extruded sash hinge incorporated in the framing stabilises sash operation and ensures maintenance free operation.

Aesthetics

The standard 36mm deep sash gives clear sight lines within the frame, or the optional 55mm sash gives a more pronounced bold look and feel to the window.

Options

Provision for insect screens is built into the frame.

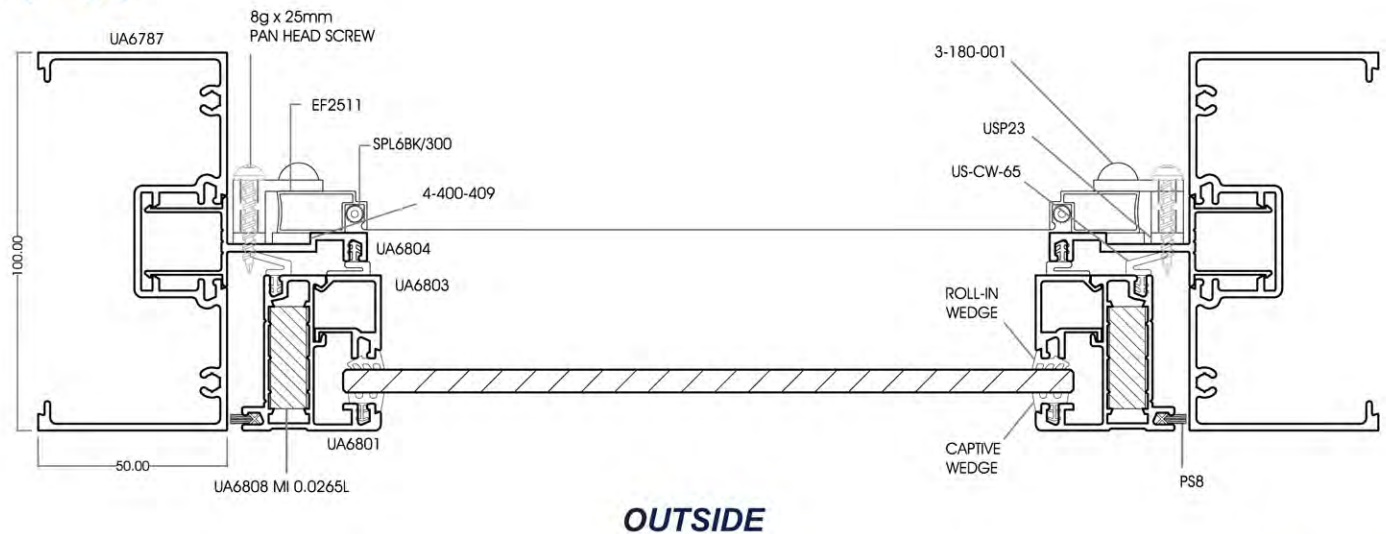
- Standard 36mm sash or optional 55mm sash profile
- Provision for insect screens built into the frame
- Continuous extruded sash hinge stabilises sash operation
- Integral winding mechanism housing
- Heavy aluminium corner stakes for extreme rigidity of sash
- Optional sub-frame available



Ultimate 100mm Awning Window

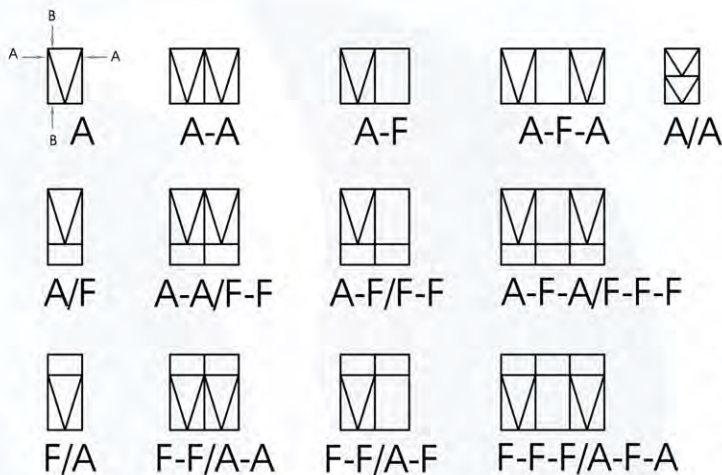
Technical Configurations - Scale 1:2

A - A



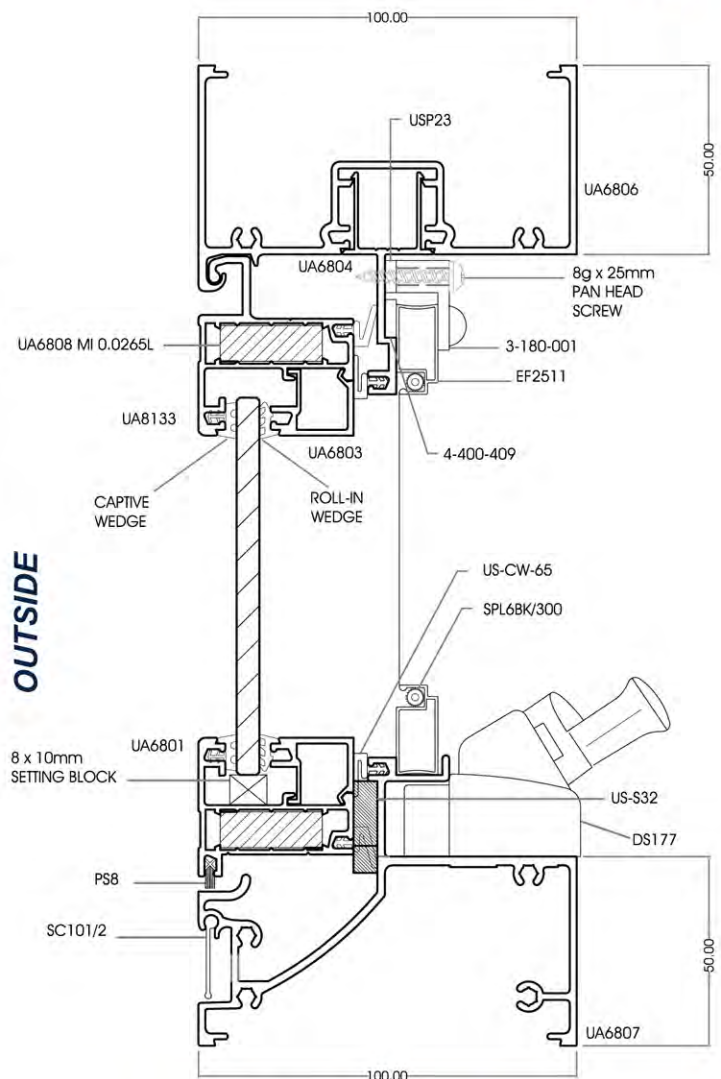
B - B

Ultimate 100mm Awning Window - VIEW FROM OUTSIDE



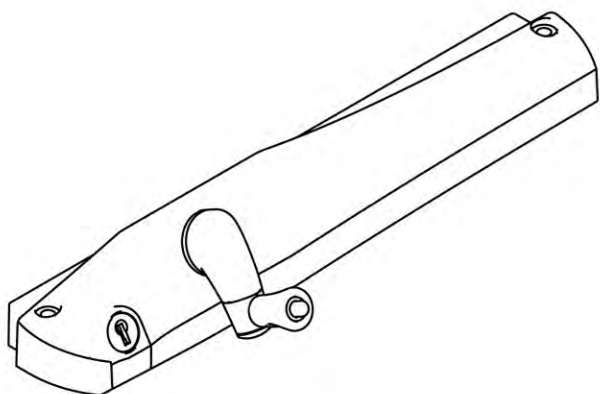
A - Awning
F - Fixed

**Contact your local Fabricator
for other configuration options.**



CROSS SECTIONS

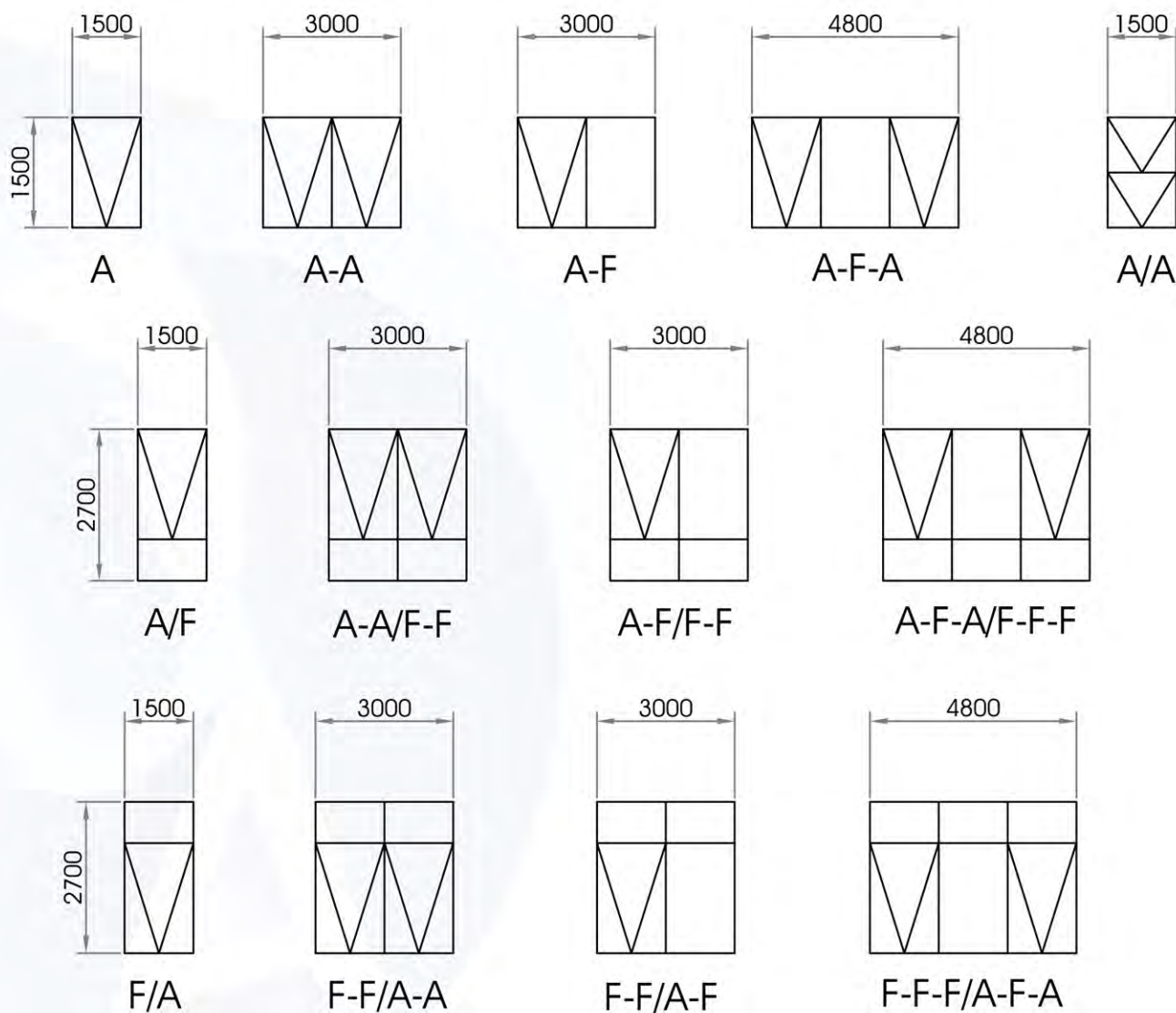
Ultimate 100mm Awning Window Hardware



DS177
DORIC AWNING
CHAIN WINDER

NOTE: 30KG MAX. SASH WEIGHT

Ultimate 100mm Awning Window - Maximum Sizes



Ultimate 100mm Sliding Door



All Wintec Architectural Systems products are tested to conform to Australian Standards and the National Construction Code.

Framing

The Ultimate sliding door is available in 100mm frame width. The frame can be adapted to incorporate a fixing fin. This door can be single glazed or double glazed up to 18mm thickness by using alternative sash extrusions.

Structural

The hollow sash members add strength and rigidity to the window. Standard frame height up to 2400mm. An extensive range of interchangeable interlocks is available to suit required wind loads. Engineered polymer components ensure stable and rigid connections between framing elements.

Weather

A drained sill ensures superior water penetration resistance; with minimum performance of 300Pa. Sub-framing can be added to increase the weathering performance. High performance weather seals in the frame produce a very low level of air infiltration.

Maintenance

High performance engineered polymer rollers with stainless steel bearings ensures long trouble free operation. Sash weights of 80kg can be carried by the single wheel roller and 180kg by the dual wheel roller.

Aesthetics

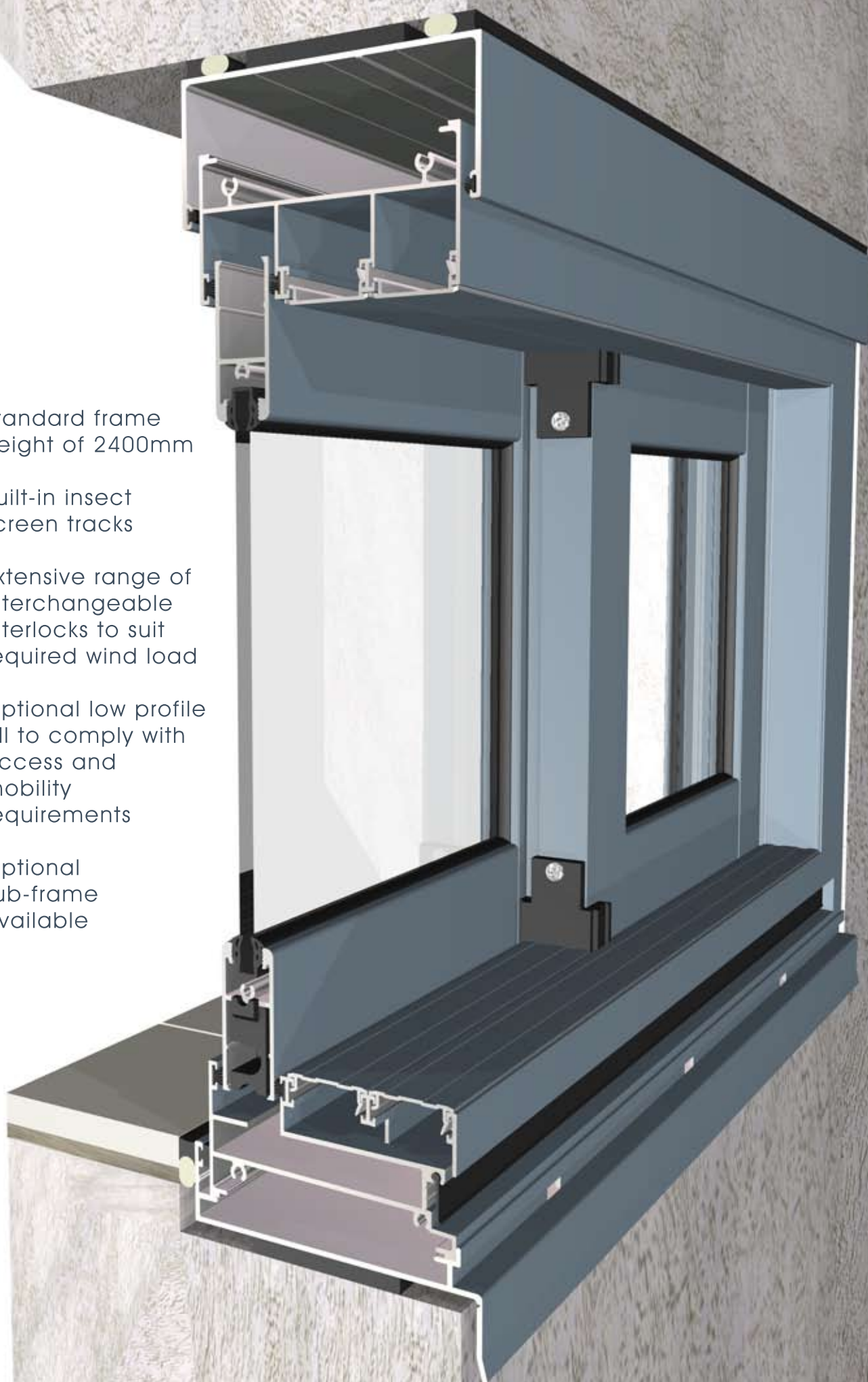
There are no unfinished or exposed edges. All cut ends of extrusions are capped for safety. External horizontal and vertical tracks are capped to provide a flush finish.

Options

Provision for insect screens is built into the frame. There is a low profile sill available that complies with access and mobility requirements.

Ultimate 100mm Sliding Door

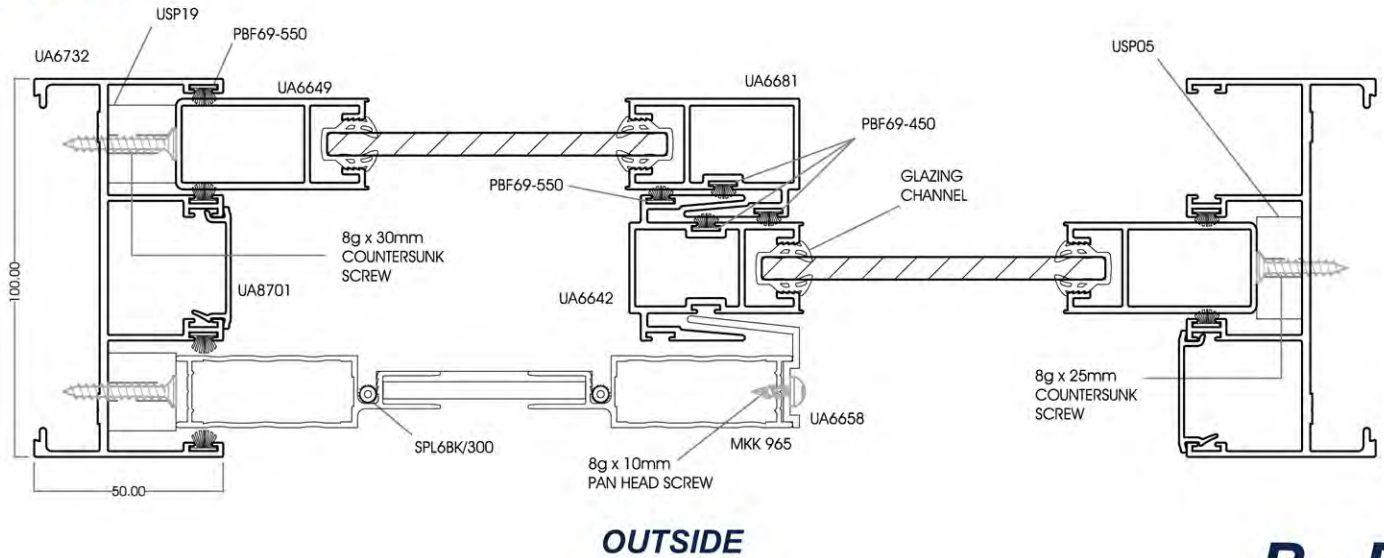
- Standard frame height of 2400mm
- Built-in insect screen tracks
- Extensive range of interchangeable interlocks to suit required wind load
- Optional low profile sill to comply with access and mobility requirements
- Optional sub-frame available



Ultimate 100mm Sliding Door

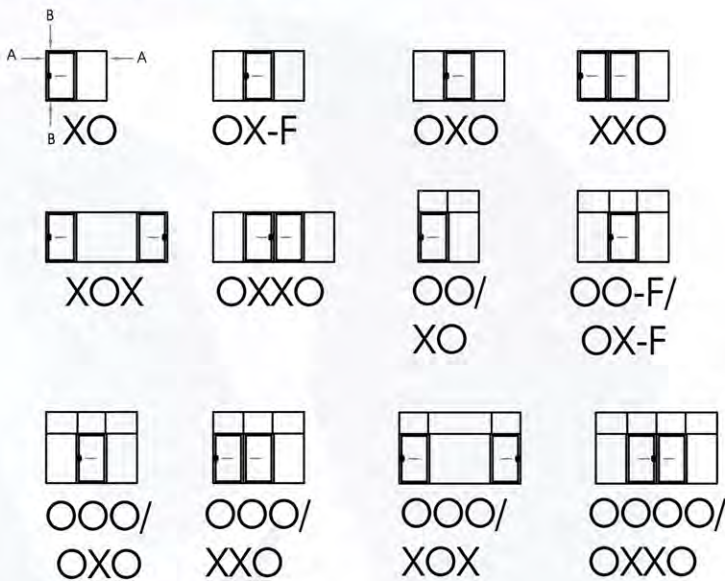
Technical Configurations - Scale 1:2

A - A



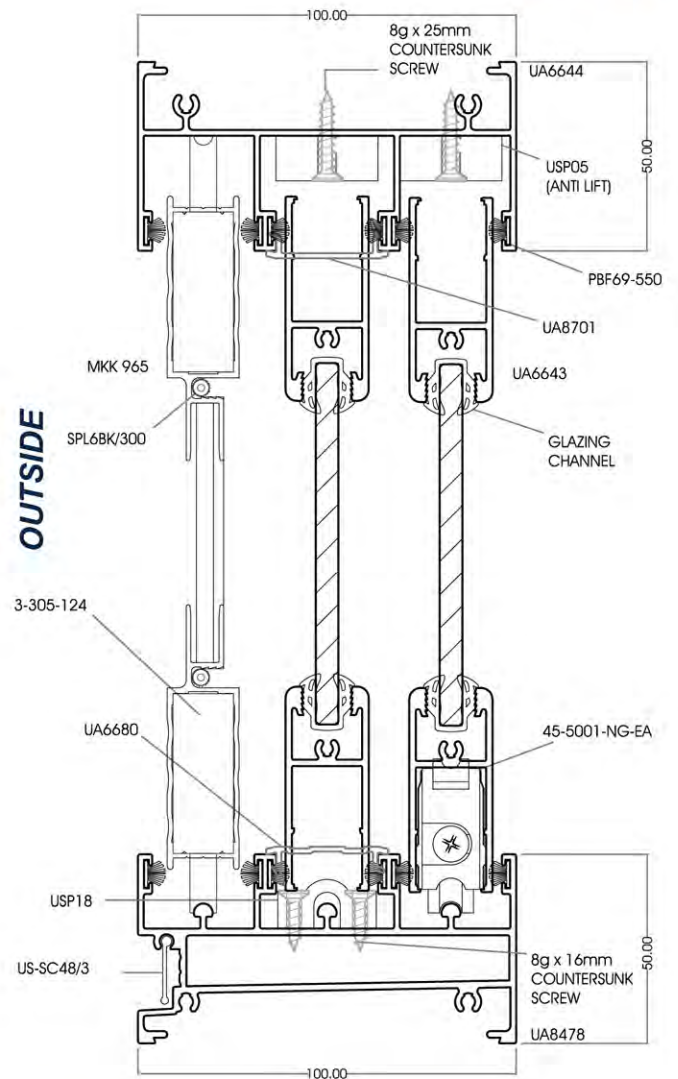
B - B

Ultimate 100mm Sliding Door - VIEW FROM OUTSIDE



X - Sliding
O - Fixed

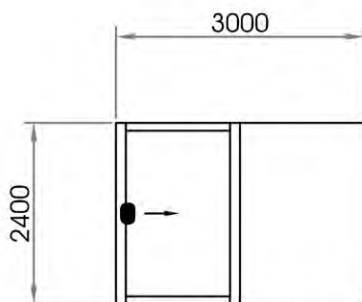
**Contact your local Fabricator
for other configuration options.**



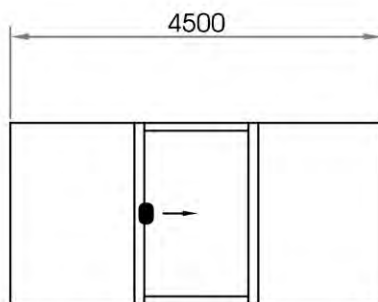
CROSS SECTIONS

Ultimate 100mm Sliding Door

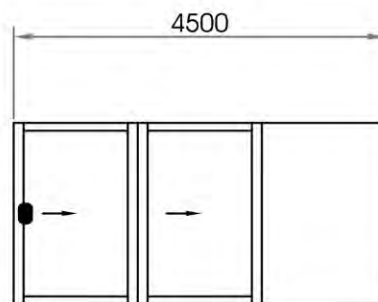
Maximum Sizes



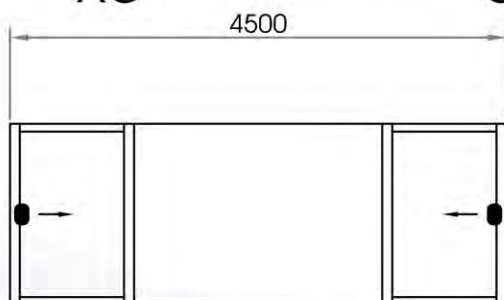
XO



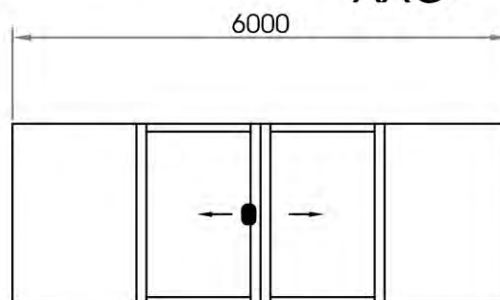
OXO



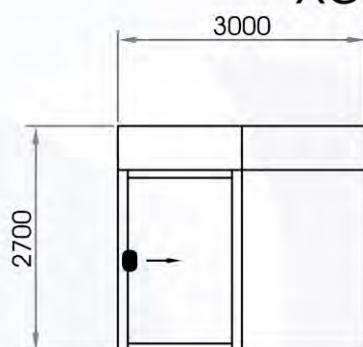
XXO



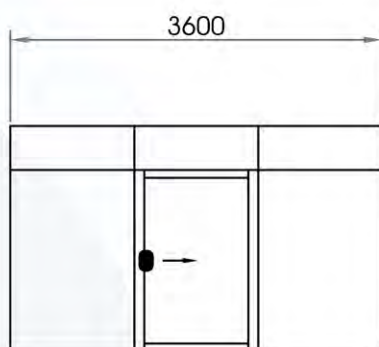
XOX



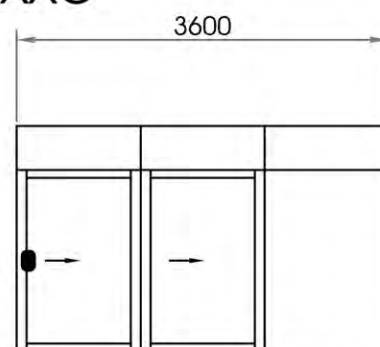
OXXO



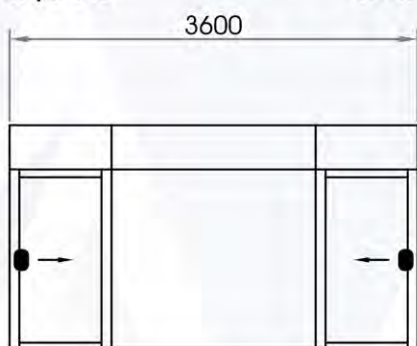
OO/XO



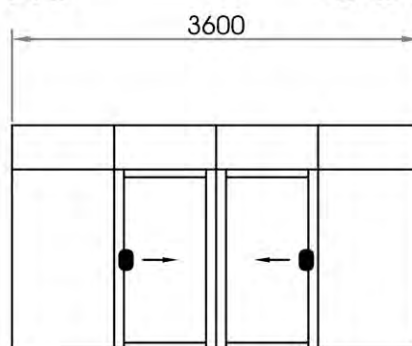
OOO/OXO



OOO/XXO



OOO/XOX



OOOO/OXXO

Ultimate 100mm Sliding Door Heavy Duty



All Wintec Architectural Systems products are tested to conform to Australian Standards and the National Construction Code.

Framing

The Ultimate sliding door is available in 100mm frame width. The frame can be adapted to incorporate a fixing fin. This door can be single glazed or double glazed up to 18mm thickness by using alternative sash extrusions.

Structural

The hollow sash members add strength and rigidity to the window. Available with frame heights up to 3000mm and sash widths up to 1500mm. An extensive range of interchangeable interlocks is available to suit any required wind load from sheltered suburban to cyclonic. Engineered polymer components ensure stable and rigid connections between framing elements.

Weather

A drained sill ensures superior water penetration resistance; with minimum performance of 470Pa. Sub-framing can be added to increase the weathering performance to 600Pa. High performance weather seals in the frame produce a very low level of air infiltration.

Maintenance

High performance engineered polymer rollers with stainless steel bearings ensures long trouble free operation. Sash weights of 180kg can be carried by the dual wheel roller.

Aesthetics

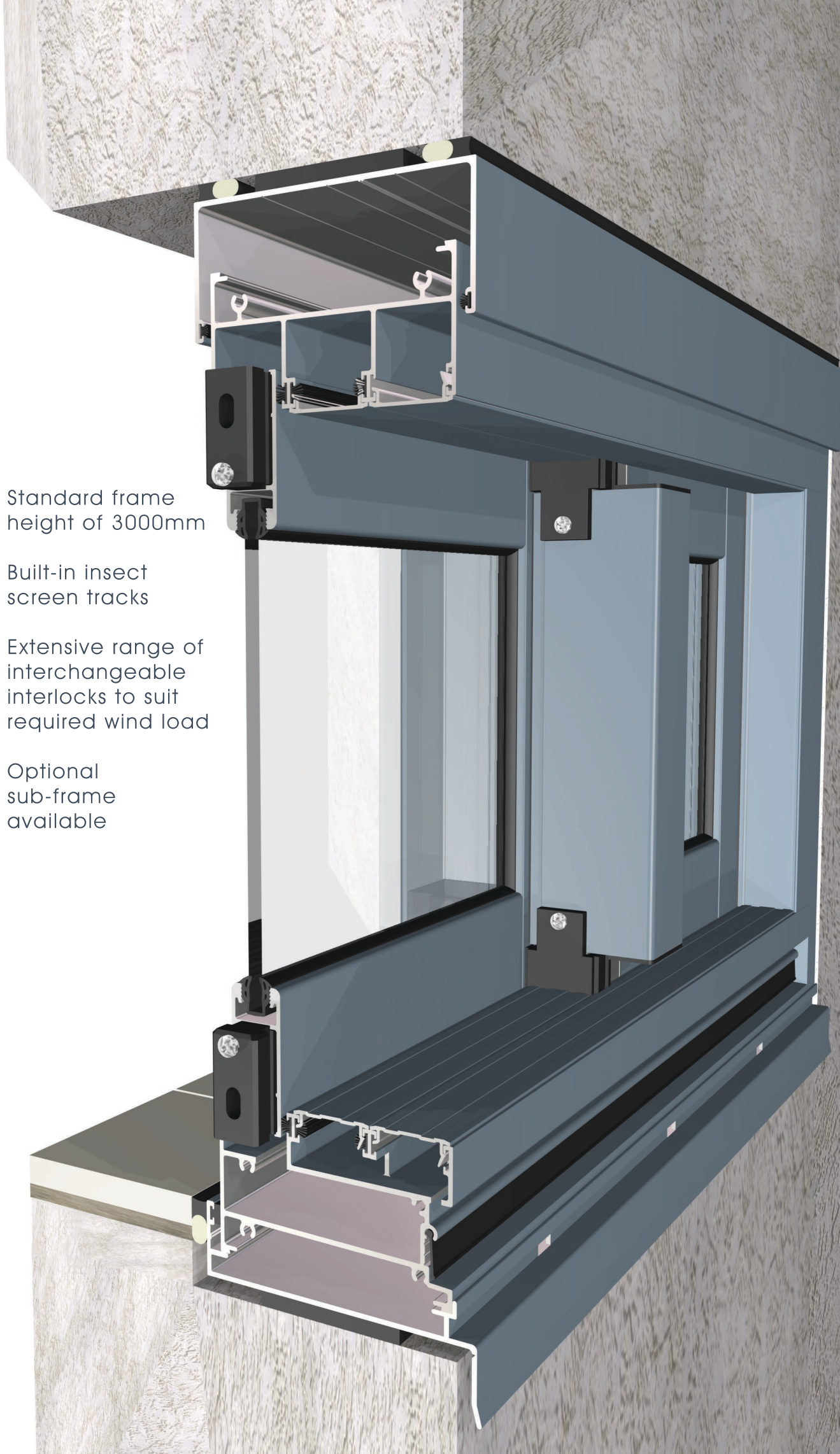
There are no unfinished or exposed edges. All cut ends of extrusions are capped for safety. External horizontal and vertical tracks are capped to provide a flush finish.

Options

Provision for insect screens is built into the frame.

Ultimate 100mm Sliding Door Heavy Duty

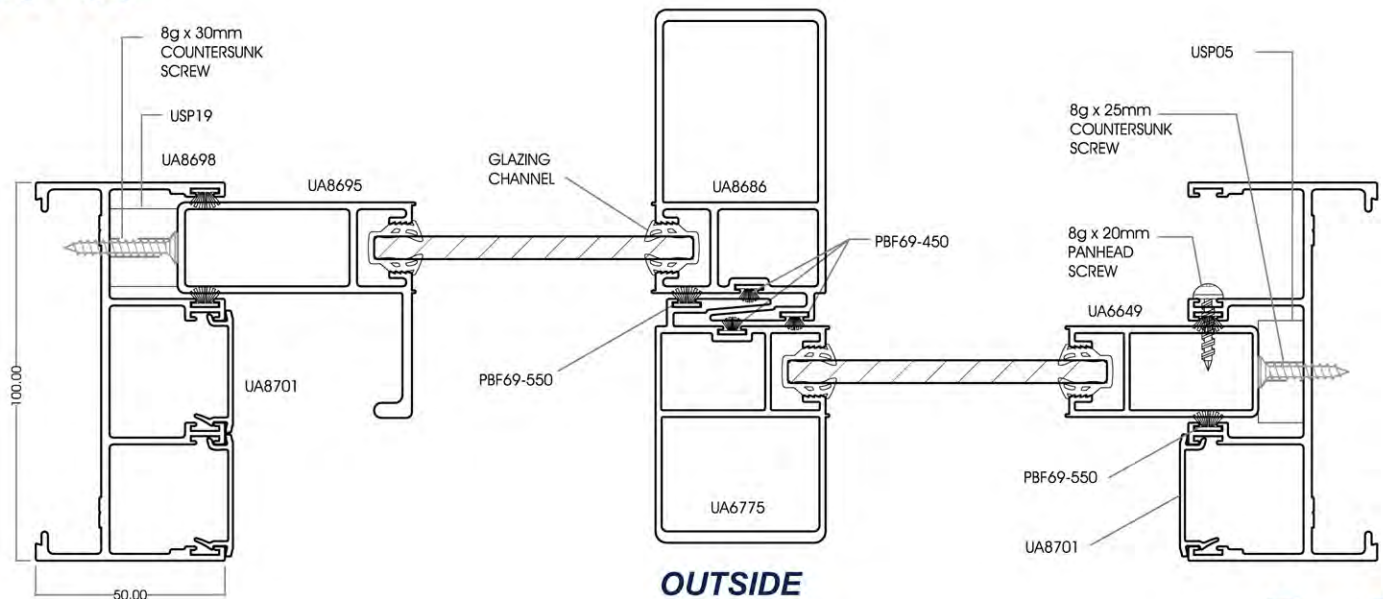
- Standard frame height of 3000mm
- Built-in insect screen tracks
- Extensive range of interchangeable interlocks to suit required wind load
- Optional sub-frame available



Ultimate 100mm Sliding Door Heavy Duty

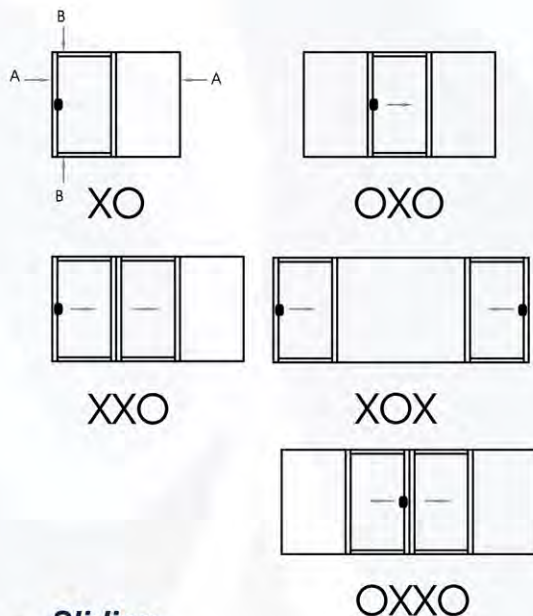
Technical Configurations - Scale 1:2

A - A



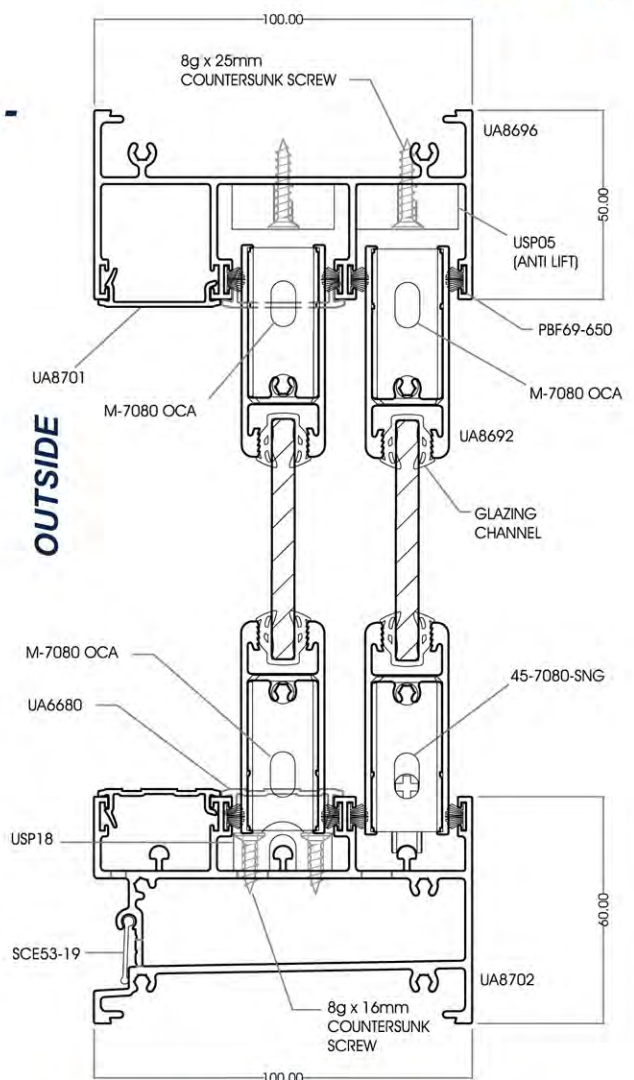
B - B

Ultimate 100mm Sliding Door Heavy Duty -
VIEW FROM OUTSIDE



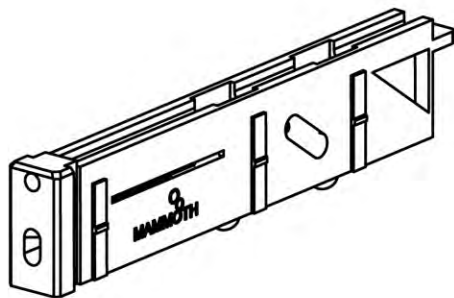
X - Sliding
O - Fixed

Contact your local Fabricator
for other configuration options.

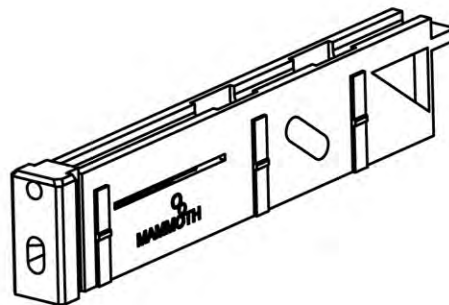


CROSS SECTIONS

Ultimate 100mm Sliding Door Heavy Duty Hardware

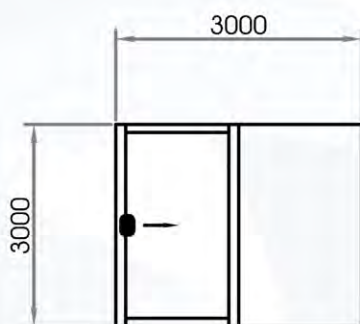


45-7080-SNG
DOUBLE ROLLER

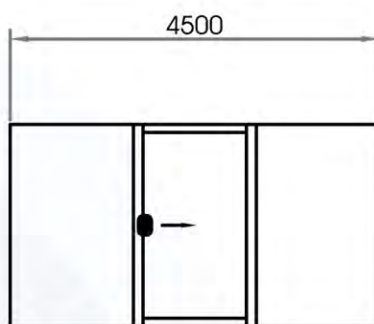


M-7080-OCA
SASH ASSEMBLY BLOCK

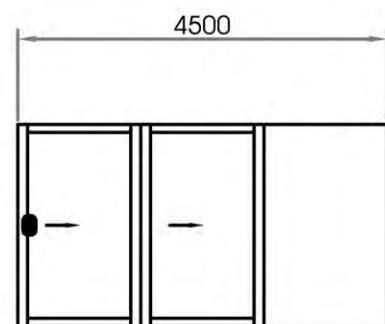
Ultimate 100mm Sliding Door Heavy Duty - Maximum Sizes



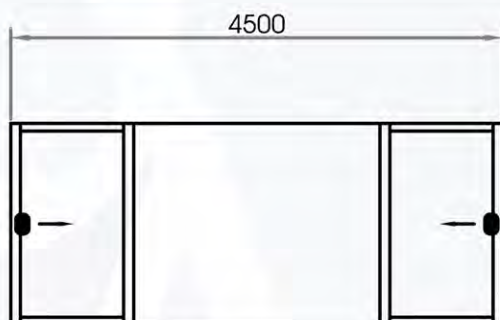
XO



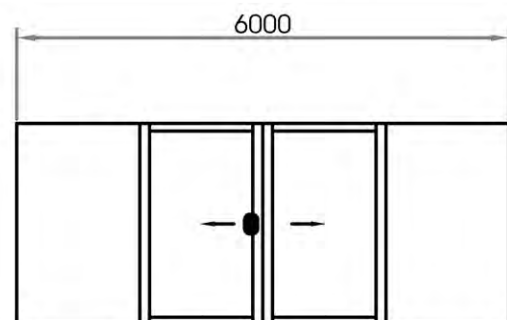
OXO



XXO

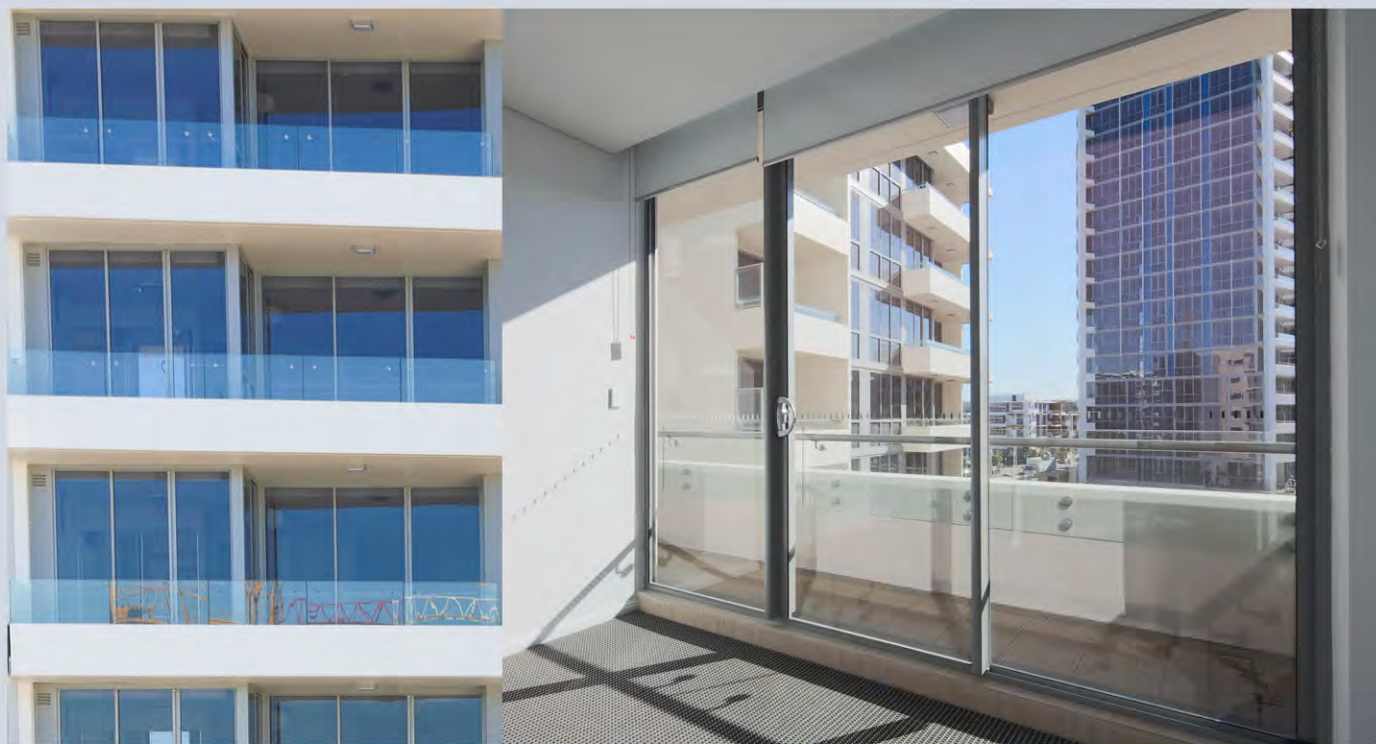


XOX



OXXO

Ultimate 165mm Sliding Door



All Wintec Architectural Systems products are tested to conform to Australian Standards and the National Construction Code.

Framing

The Ultimate sliding door is available in 165mm frame width. This door can be single glazed or double glazed up to 18mm thickness by using alternative sash extrusions. 5 tracks create versatile sash configuration options.

Structural

The hollow sash members add strength and rigidity to the window. Standard frame height up to 2400mm. An extensive range of interchangeable interlocks is available to suit required wind loads. Engineered polymer components ensure stable and rigid connections between framing elements.

Weather

A drained sill ensures superior water penetration resistance; with minimum performance of 300Pa. Sub-framing can be added to increase the weathering performance. High performance weather seals in the frame produce a very low level of air infiltration.

Maintenance

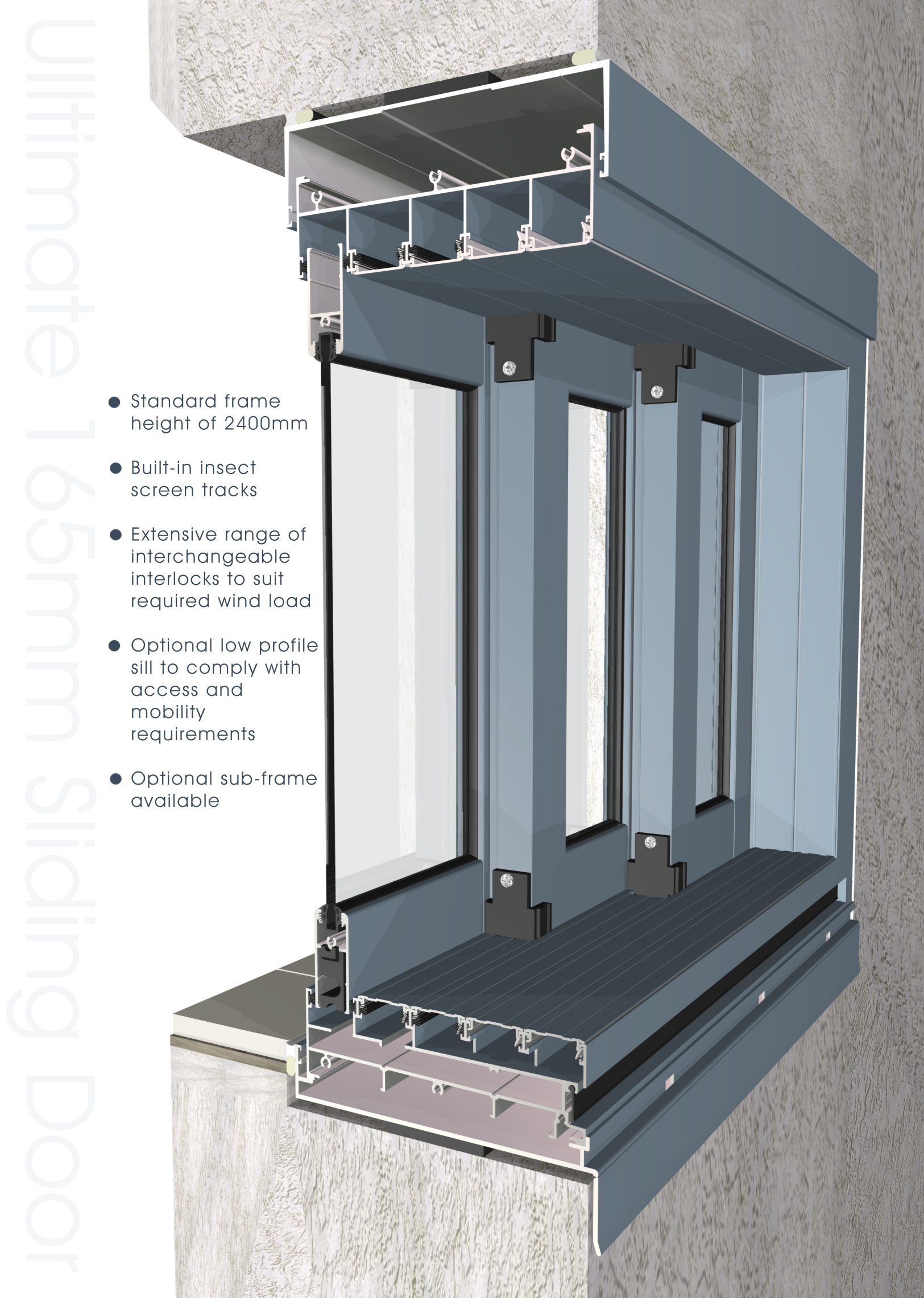
High performance engineered polymer rollers with stainless steel bearings ensures long trouble free operation. Sash weights of 80kg can be carried by the single wheel roller and 180kg by the dual wheel roller.

Aesthetics

There are no unfinished or exposed edges. All cut ends of extrusions are capped for safety. External horizontal and vertical tracks are capped to provide a flush finish.

Options

Provision for insect screens is built into the frame. There is a low profile sill available that complies with access and mobility requirements.



- Standard frame height of 2400mm

- Built-in insect screen tracks

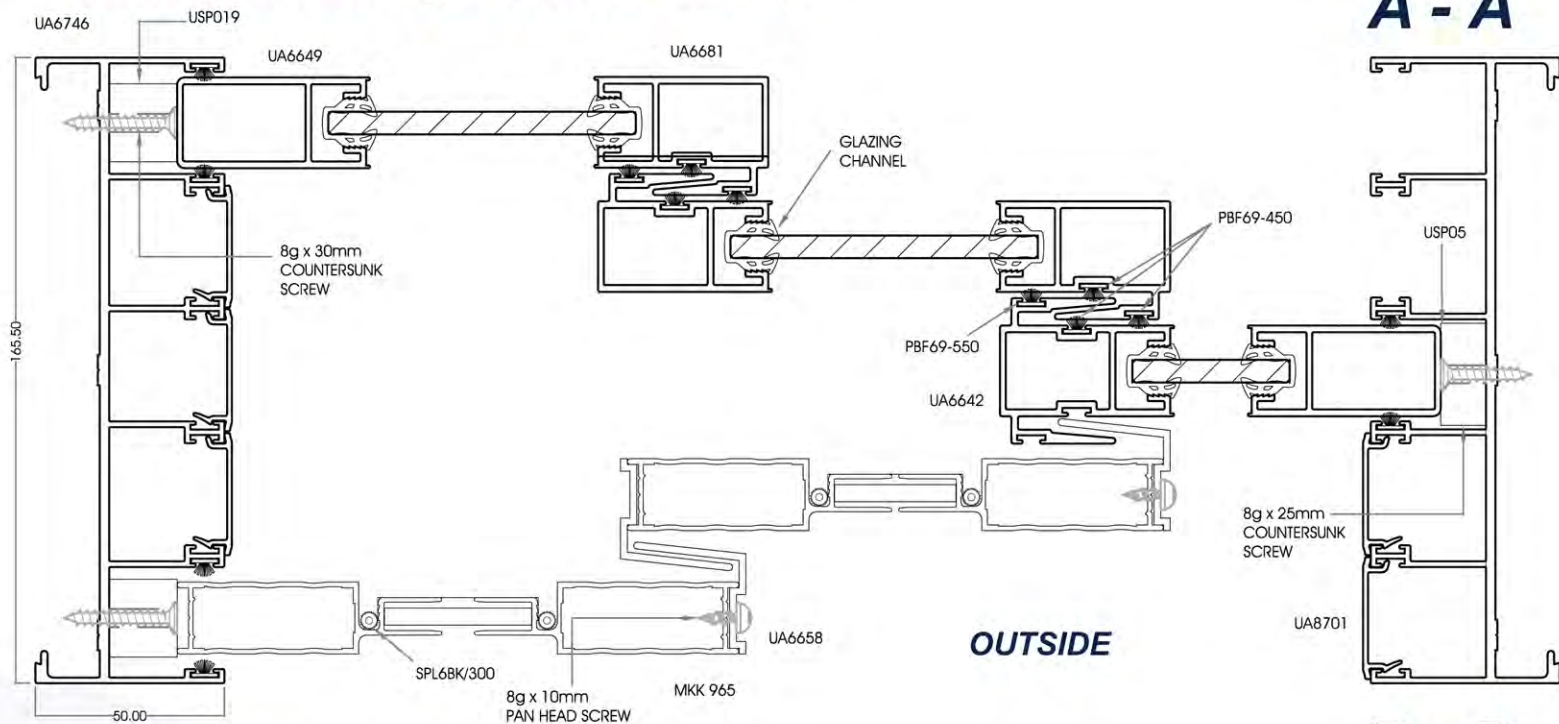
- Extensive range of interchangeable interlocks to suit required wind load

- Optional low profile sill to comply with access and mobility requirements

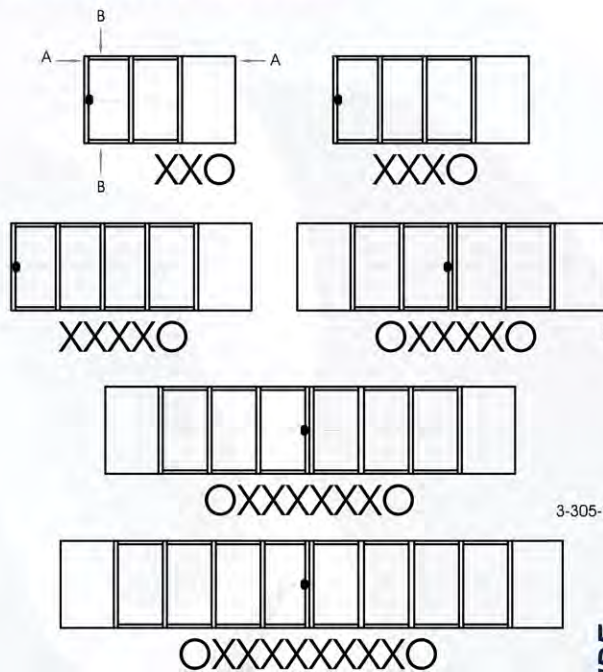
- Optional sub-frame available

Ultimate 165mm Sliding Door

Technical Configurations - Scale 1:2

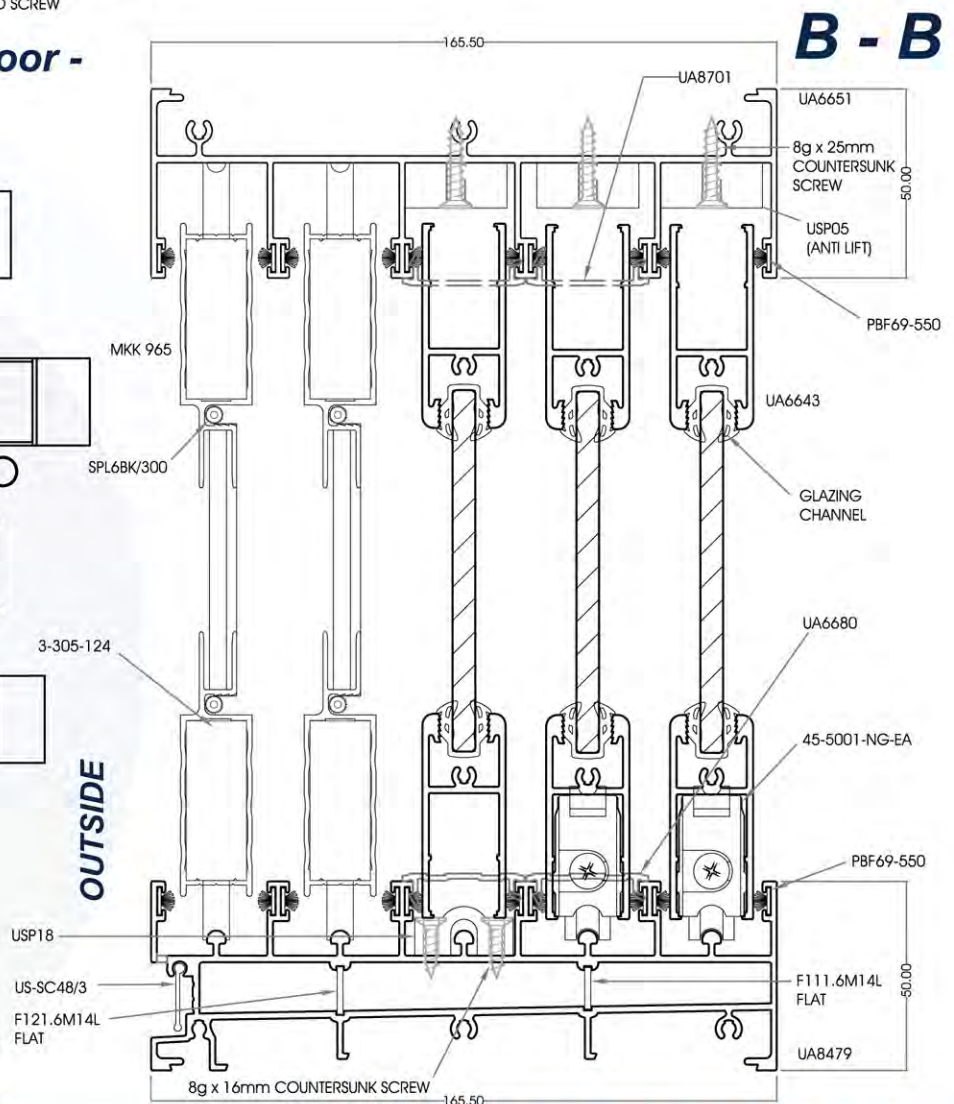


Ultimate 165mm Sliding Door - VIEW FROM OUTSIDE



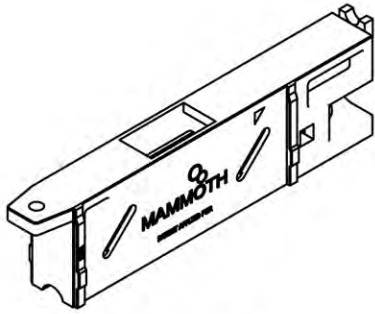
X - Sliding
O - Fixed

**Contact your local Fabricator
for other configuration options.**

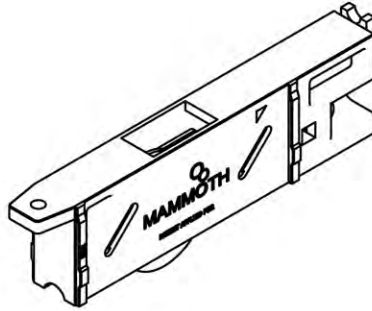


CROSS SECTIONS

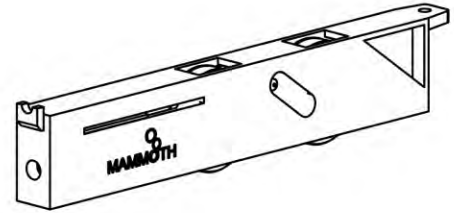
Ultimate 165mm Sliding Door Hardware



45-5001-NG-EA
ROLLER [80kg SASH]

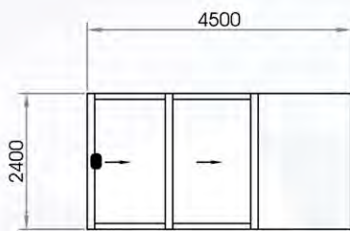


45-5001-G
ADJUSTABLE
FIXED BLOCK

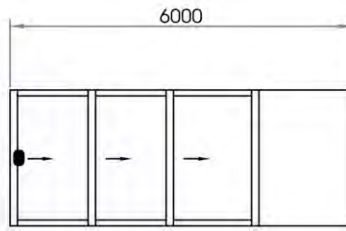


45-7000-SNG
DOUBLE ROLLER
[180kg SASH]

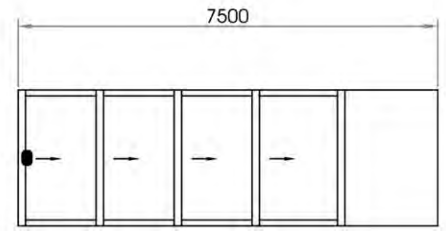
Ultimate 165mm Sliding Door - Maximum Sizes



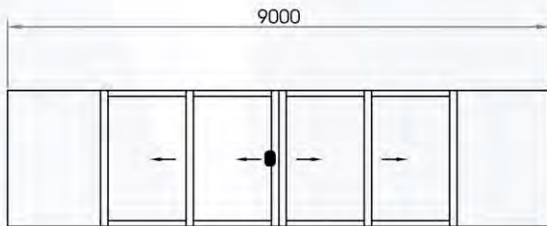
XXO



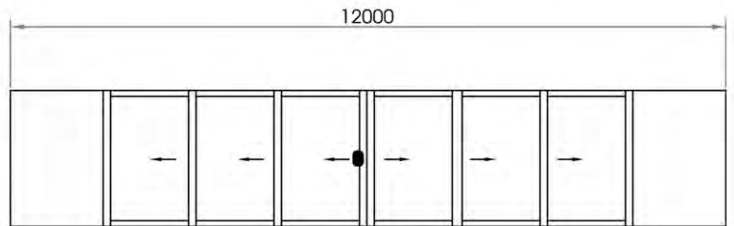
XXXO



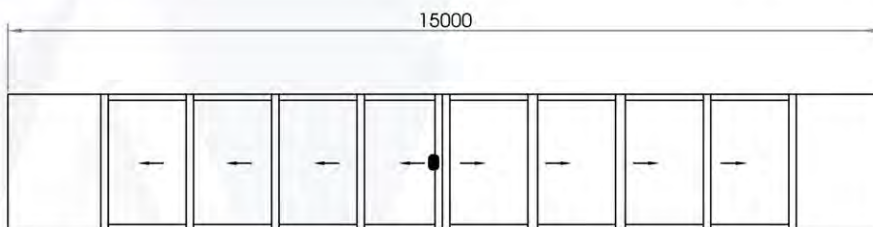
XXXXO



OXXXXO



OXXXXXXO



OXXXXXXXXO

SPECIFICATIONS

Ullimate 165mm Sliding Door Heavy Duty



All Wintec Architectural Systems products are tested to conform to Australian Standards and the National Construction Code.

Framing

The Ullimate sliding door is available in 165mm frame width. This door can be single glazed or double glazed up to 18mm thickness by using alternative sash extrusions. 5 tracks create versatile sash configuration options.

Structural

The hollow sash members add strength and rigidity to the window. Available with frame heights up to 3000mm and sash widths up to 1500mm. An extensive range of interchangeable interlocks is available to suit any required wind load from sheltered suburban to cyclonic. Engineered polymer components ensure stable and rigid connections between framing elements.

Weather

A drained sill ensures superior water penetration resistance; with minimum performance of 400Pa. Sub-framing can be added to increase the weathering performance to 600Pa. High performance weather seals in the frame produce a very low level of air infiltration.

Maintenance

High performance engineered polymer rollers with stainless steel bearings ensures long trouble free operation. Sash weights of 180kg can be carried by the dual wheel roller.

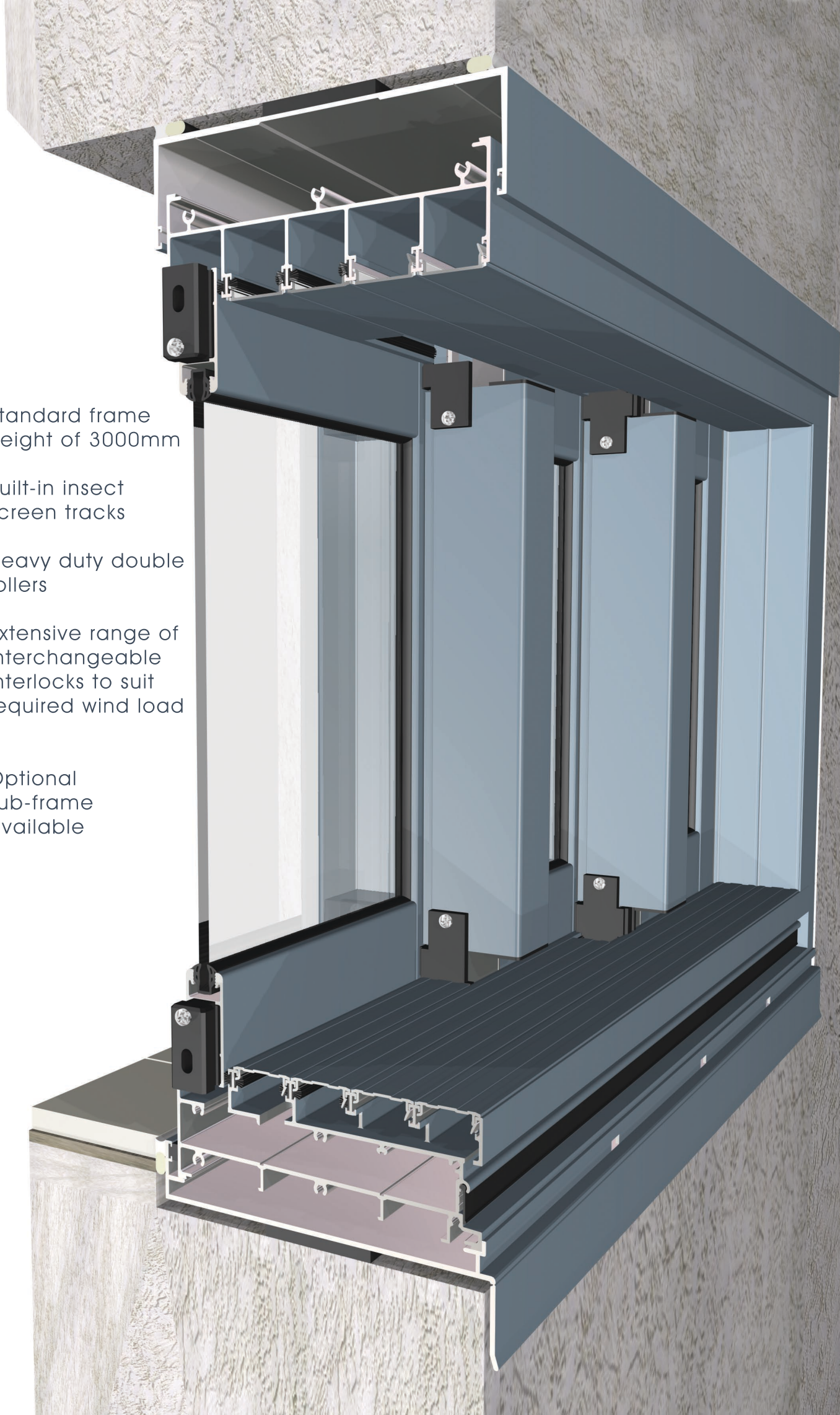
Aesthetics

There are no unfinished or exposed edges. All cut ends of extrusions are capped for safety. External horizontal and vertical tracks are capped to provide a flush finish.

Options

Provision for insect screens is built into the frame.

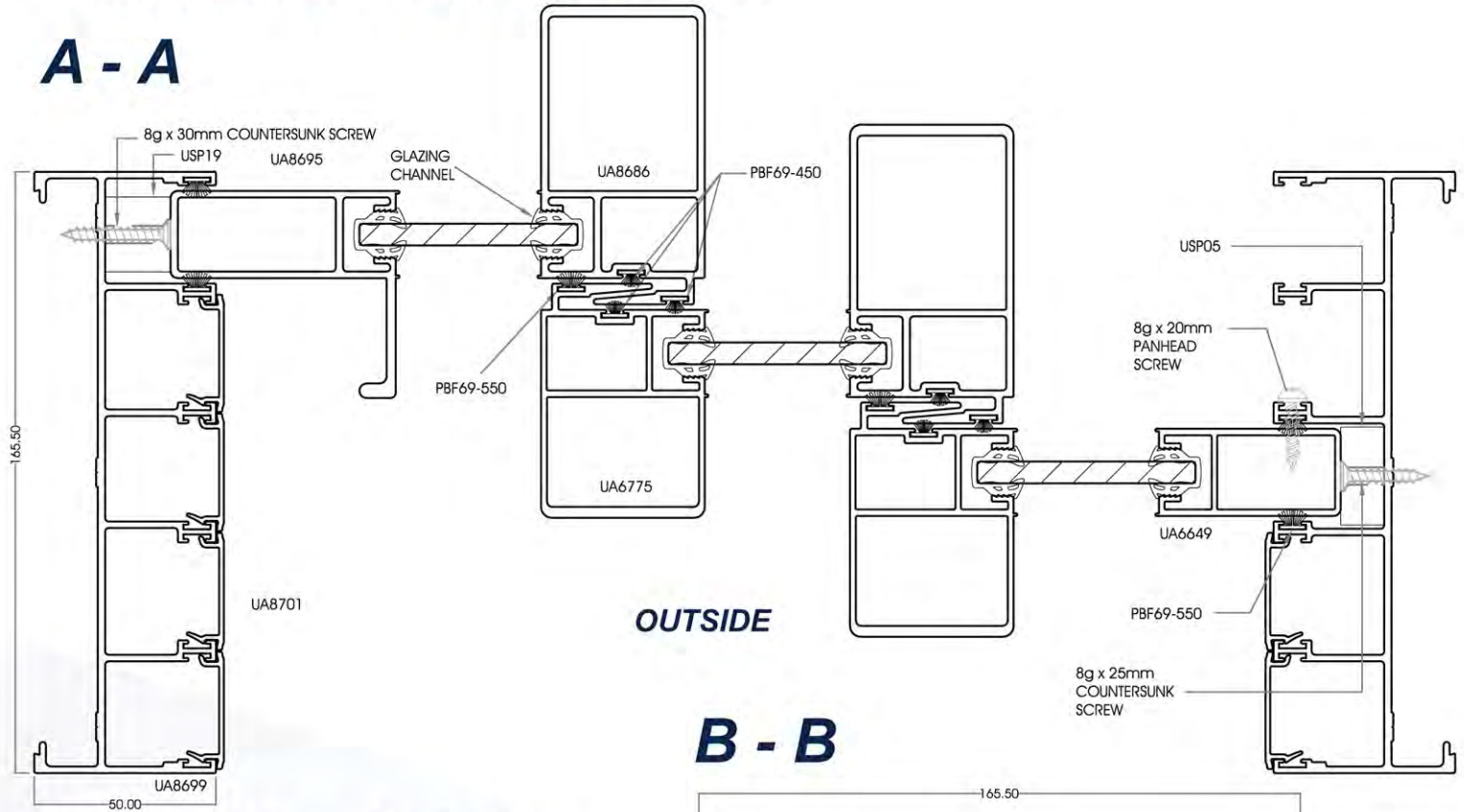
- Standard frame height of 3000mm
- Built-in insect screen tracks
- Heavy duty double rollers
- Extensive range of interchangeable interlocks to suit required wind load
- Optional sub-frame available



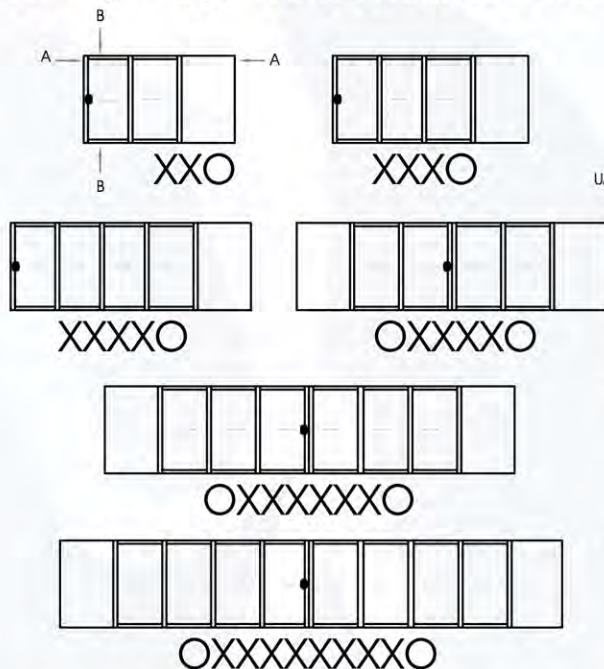
Ultimate 165mm Sliding Door Heavy Duty

Technical Configurations - Scale 1:2

A - A



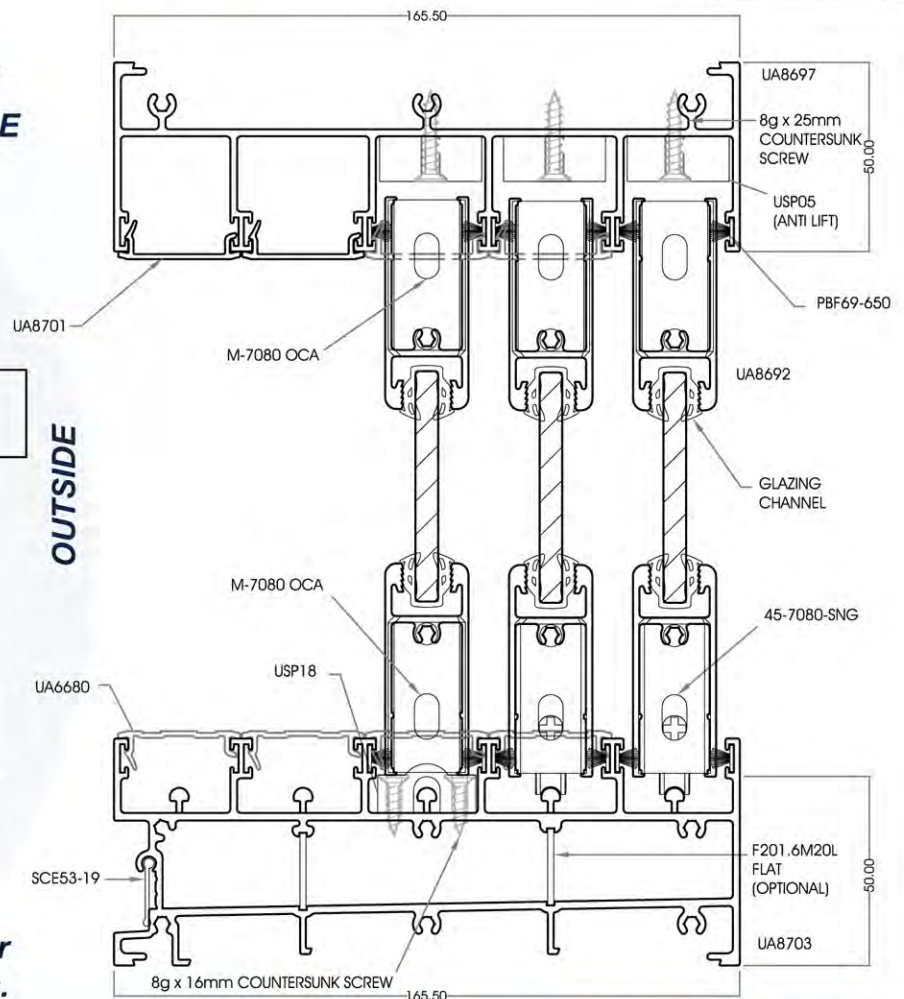
Ultimate 165mm Sliding Door Heavy Duty - VIEW FROM OUTSIDE



X - Sliding
O - Fixed

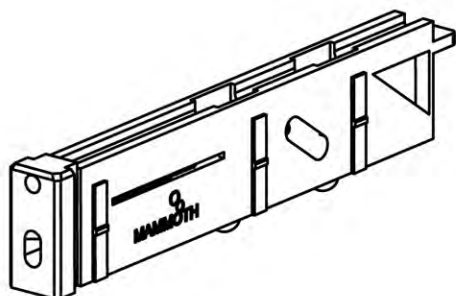
Contact your local Fabricator for other configuration options.

B - B

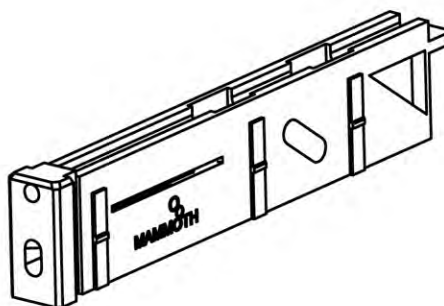


CROSS SECTIONS

Ultimate 165mm Sliding Door Heavy Duty Hardware

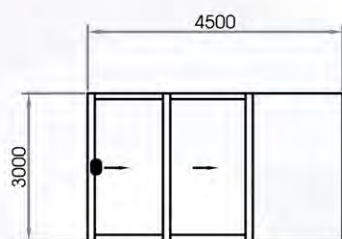


45-7080-SNG
DOUBLE ROLLER

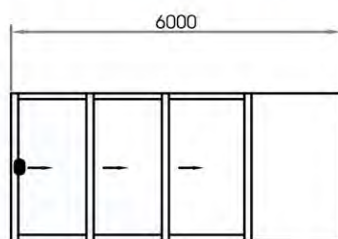


M-7080-OCA
SASH ASSEMBLY BLOCK

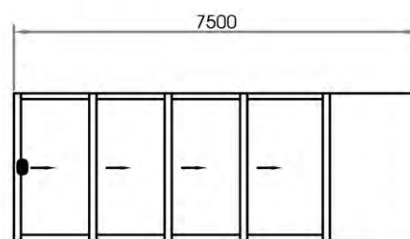
Ultimate 165mm Sliding Door Heavy Duty - Maximum Sizes



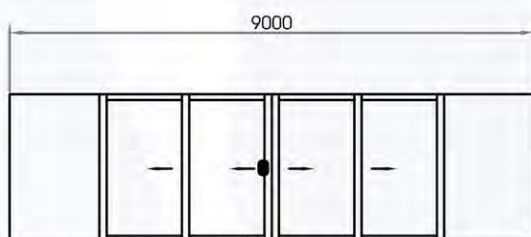
XXO



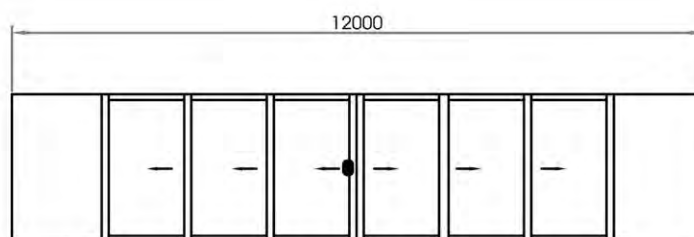
XXXO



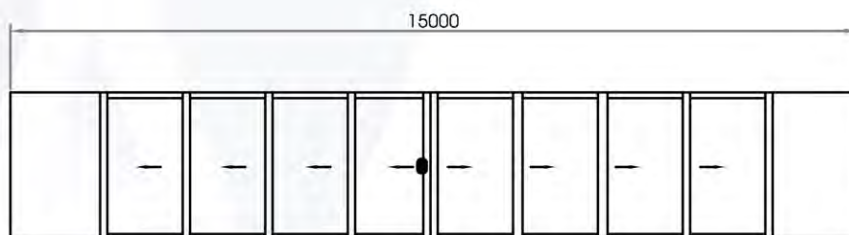
XXXXO



OXXXXO



OXXXXXXO



OXXXXXXXXO

WERS Certified Energy Performance Results



NOTES 1.Uw is the whole window U-value 2.SHGCw is the whole window solar heat gain coefficient 3.Tvw is the whole window visible (light) transmittance 4.Percentage improvement figures are compared with using base-case Generic Window 1 (3mm clear in standard aluminium frame) 5.A negative percentage improvement figure indicates performance worse than the base-case window 6.A positive percentage improvement figure indicates performance better than the base-case window 7.Maximum air infiltration is 5.0L/s.m2 at a positive pressure difference of 75 Pa as measured according to AS 2047 8.Static performance (Uw SHGCw Tw Tdw) calculated using Window 6.3 and Therm 6.3 software (LBNL), 1999-2010 9.Annual energy performance (stars and % improvements) calculated using Nationwide House Energy Rating Software (AccuRate) according to procedures of WERS 2008. 10.Results disclosed at Australian Fenestration Rating Council (AFRC) regulations.

Ullrich Aluminium				Cool %	Heat %	Total Window - AFRC			
Window ID	Glazing	Cooling Stars	Heating Stars			Uw	SHGC	Tw	Air Inf
Ultimate Suite 100mm Sliding Door - Double Glazed									
ULL-018-01	6mm SolTech / 6mm Air / 6.38mm Clear Laminate	★★★★☆	★★★★☆	54%	34%	3.8	0.38	0.5	1.68
ULL-018-02	4mm Clear / 10mm Air / 4mm Clear	★★★★	★★★★☆	47%	43%	3.5	0.51	0.6	1.68
ULL-018-03	4mm Super Green / 10mm Air / 4mm Clear	★★★	★★★★☆	35%	43%	4.0	0.62	0.7	1.68
ULL-018-04	4mm Super Green / 10mm Air / 4mm EnergyTech	★★★★☆	★★★★☆	53%	31%	4.0	0.39	0.5	1.68
ULL-018-05	6.38mm ComfortPlus Clear / 8mm Air / 4mm Clear	★★★★	★★★★	58%	36%	3.4	0.35	0.5	1.68
Ultimate Suite 100mm Sliding Door - Single Glazed									
ULL-019-01	6.38mm ComfortPlus Clear	★★	★★★★☆	37%	35%	4.5	0.57	0.7	1.68
ULL-019-02	6.38mm Clear Laminate	★	★★★	22%	19%	6.0	0.65	0.7	1.68
ULL-019-03	6.38mm Grey Laminate	★★	★★	33%	9%	6.2	0.51	0.3	1.68
ULL-019-04	6mm SolTech / 6mm Air / 6.38mm Clear Laminate	★★★★	★★★★	47%	28%	4.5	0.44	0.5	1.68
ULL-019-05	6mm EnergyTech Clear	★★	★★★★	36%	35%	4.5	0.58	0.7	1.68
ULL-019-06	6mm Evantage Clear	★★★	★★★★☆	40%	31%	4.6	0.53	0.6	1.68
Ultimate 100mm Awning Window - Single Glazed									
ULL-023-01	6.38mm ComfortPlus Clear	★★★	★★★★	40%	36%	5.6	0.46	0.5	0.22
ULL-023-02	6.38mm ComfortPlus Grey	★★★★	★★★★☆	47%	30%	5.6	0.35	0.2	0.22
ULL-023-03	6.38mm ComfortPlus Neutral	★★★★	★★★★☆	47%	30%	5.6	0.36	0.4	0.22
ULL-023-04	6.38mm ComfortPlus Green	★★★★	★★★★☆	47%	30%	5.6	0.36	0.4	0.22
ULL-023-05	6mm Clear	★★	★★★	28%	24%	6.7	0.55	0.5	0.22
ULL-023-06	6mm Grey	★★★	★★★	39%	17%	6.7	0.40	0.3	0.22
ULL-023-07	6mm Green	★★	★★★	37%	18%	6.7	0.42	0.5	0.22
ULL-023-08	6mm EnergyTech Clear	★★★	★★★★	39%	36%	5.6	0.47	0.5	0.22
Ultimate 100mm Awning Window - Double Glazed									
ULL-024-01	4mm Grey / 12mm Argon / 4mm EnergyTech	★★★★☆	★★★★☆	55%	47%	4.2	0.34	0.3	0.22
ULL-024-02	6mm Grey / 10mm Argon / 4mm EnergyTech	★★★★	★★★★☆	59%	44%	4.2	0.28	0.2	0.22
ULL-024-03	6mm Clear / 12mm Argon / 6.38mm ComfortPlus Grey	★★★★	★★★★☆	49%	53%	4.1	0.43	0.2	0.22
ULL-024-04	6mm Clear / 12mm Argon / 6.38mm ComfortPlus Neutral	★★★★	★★★★☆	49%	53%	4.1	0.43	0.3	0.22
ULL-024-05	6mm Clear / 12mm Argon / 6.38mm ComfortPlus Green	★★★★	★★★★☆	49%	53%	4.1	0.43	0.4	0.22
ULL-024-06	6mm Clear / 12mm Argon / 6.38mm ComfortPlus Clear	★★★★	★★★★☆	48%	54%	4.1	0.45	0.4	0.22
ULL-024-07	6mm Clear / 12mm Argon / 6mm Clear	★★★	★★★★☆	44%	49%	4.6	0.47	0.5	0.22
ULL-024-08	6mm Clear / 12mm Argon / 6mm EnergyTech	★★★★	★★★★☆	48%	54%	4.1	0.45	0.4	0.22
Ultimate 83mm Sliding Window - Single Glazed									
ULL-025-01	6.38mm ComfortPlus Grey	★★★★	★★★	49%	21%	4.9	0.38	0.3	1.04
ULL-025-02	6.38mm ComfortPlus Neutral	★★★★	★★★	48%	21%	4.9	0.39	0.4	1.04
ULL-025-03	6.38mm ComfortPlus Green	★★★★	★★★	49%	21%	4.9	0.39	0.5	1.04
ULL-025-04	6.38mm ComfortPlus Clear	★★★★☆	★★★★	40%	28%	4.9	0.51	0.6	1.04
ULL-025-05	6mm Clear	★★	★★	24%	12%	6.4	0.61	0.6	1.04
ULL-025-06	6mm Grey	★★	★★	38%	4%	6.4	0.44	0.3	1.04
ULL-025-07	6mm Green	★★	★★	36%	5%	6.4	0.46	0.6	1.04
ULL-025-08	6mm EnergyTech Clear	★★★	★★★★	39%	28%	4.9	0.52	0.6	1.04

WERS Certified Energy Performance Results



Ullrich Aluminium				Cool %	Heat %	Total Window - AFRC			
Window ID	Glazing	Cooling Stars	Heating Stars			Uw	SHGC	Tvw	Air Inf
Ultimate 83mm Sliding Window - Double Glazed									
ULL-026-01	4mm Clear / 8mm Argon / 6.38mm ComfortPlus Grey	☆☆☆	★★★★☆	47%	42%	3.6	0.49	0.3	1.04
ULL-026-02	4mm Clear / 8mm Argon / 6.38mm ComfortPlus Neutral	☆☆☆	★★★★	47%	41%	3.7	0.49	0.4	1.04
ULL-026-03	4mm Clear / 8mm Argon / 6.38mm ComfortPlus Green	☆☆☆	★★★★☆	47%	42%	3.6	0.50	0.5	1.04
ULL-026-04	4mm Clear / 8mm Argon / 6.38mm ComfortPlus Clear	☆☆☆	★★★★☆	45%	43%	3.6	0.52	0.5	1.04
ULL-026-05	4mm Clear / 10mm Argon / 4mm Clear	☆☆☆	★★★★	39%	39%	4.2	0.57	0.6	1.04
ULL-026-06	4mm Clear / 10mm Argon / 4mm EnergyTech Clear	☆☆☆	★★★★☆	45%	44%	3.6	0.53	0.5	1.04
ULL-026-07	4mm Clear / 8mm Argon / 6mm EnergyTech Clear	☆☆☆	★★★★☆	44%	43%	3.7	0.53	0.5	1.04
Ultimate 100mm Sliding Window - Single Glazed									
ULL-027-01	6.38mm ComfortPlus Grey	☆☆☆	★★★	49%	19%	5.0	0.37	0.3	0.55
ULL-027-02	6.38mm ComfortPlus Neutral	☆☆☆	★★★	48%	20%	5.0	0.38	0.4	0.55
ULL-027-03	6.38mm ComfortPlus Green	☆☆☆	★★★	49%	20%	5.0	0.38	0.5	0.55
ULL-027-04	6.38mm ComfortPlus Clear	☆☆☆	★★★	40%	26%	5.0	0.50	0.6	0.55
ULL-027-05	6mm Clear	☆☆	★★	24%	11%	6.5	0.60	0.6	0.55
ULL-027-06	6mm Grey	☆☆	★★	38%	2%	6.5	0.43	0.3	0.55
ULL-027-07	6mm Green	☆☆	★★	36%	4%	6.5	0.45	0.6	0.55
ULL-027-08	6mm EnergyTech Clear	☆☆☆	★★★	39%	27%	5.0	0.51	0.6	0.55
Ultimate 100mm Sliding Window - Double Glazed									
ULL-028-01	4mm Clear / 8mm Argon / 6.38mm ComfortPlus Grey	☆☆☆	★★★★	47%	39%	3.8	0.48	0.3	0.55
ULL-028-02	4mm Clear / 8mm Argon / 6.38mm ComfortPlus Neutral	☆☆☆	★★★★	47%	39%	3.8	0.48	0.4	0.55
ULL-028-03	4mm Clear / 8mm Argon / 6.38mm ComfortPlus Green	☆☆☆	★★★★	47%	40%	3.8	0.48	0.5	0.55
ULL-028-04	4mm Clear / 8mm Argon / 6.38mm ComfortPlus Clear	☆☆☆	★★★★	45%	41%	3.8	0.51	0.5	0.55
ULL-028-05	4mm Clear / 10mm Argon / 4mm Clear	☆☆☆	★★★★	40%	37%	4.3	0.55	0.6	0.55
ULL-028-06	4mm Clear / 10mm Argon / 4mm EnergyTech Clear	☆☆☆	★★★★☆	45%	42%	3.7	0.51	0.5	0.55
ULL-028-07	4mm Clear / 8mm Argon / 6mm EnergyTech Clear	☆☆☆	★★★★	45%	41%	3.8	0.51	0.5	0.55
Ultimate 83mm Double Hung Window - Single Glazed									
ULL-030-01	6.38mm ComfortPlus Grey	☆☆☆	★★★	49%	22%	4.8	0.39	0.3	1.04
ULL-030-02	6.38mm ComfortPlus Neutral	☆☆☆	★★★	48%	22%	4.9	0.40	0.4	1.04
ULL-030-03	6.38mm ComfortPlus Green	☆☆☆	★★★	48%	22%	4.8	0.39	0.5	1.04
ULL-030-04	6.38mm ComfortPlus Clear	☆☆☆	★★★	39%	29%	4.8	0.53	0.6	1.04
ULL-030-05	6mm Clear	☆☆	★★	22%	13%	6.4	0.63	0.7	1.04
ULL-030-06	6mm Grey	☆☆	★★	37%	4%	6.4	0.45	0.3	1.04
ULL-030-07	6mm Green	☆☆	★★	35%	5%	6.4	0.48	0.6	1.04
ULL-030-08	6mm EnergyTech Clear	☆☆	★★★	38%	29%	4.8	0.54	0.6	1.04
Ultimate 100mm Double Hung - Single Glazed									
ULL-031-01	6.38mm ComfortPlus Grey	☆☆☆	★★★	49%	21%	4.9	0.38	0.3	1.04
ULL-031-02	6.38mm ComfortPlus Neutral	☆☆☆	★★★	48%	20%	5.0	0.39	0.4	1.04
ULL-031-03	6.38mm ComfortPlus Green	☆☆☆	★★★	49%	21%	4.9	0.38	0.5	1.04
ULL-031-04	6.38mm ComfortPlus Clear	☆☆☆	★★★	39%	28%	4.9	0.52	0.6	1.04
ULL-031-05	6mm Clear	☆☆	★★	23%	12%	6.4	0.62	0.7	1.04
ULL-031-06	6mm Grey	☆☆	★★	37%	3%	6.4	0.44	0.3	1.04
ULL-031-07	6mm Green	☆☆	★★	36%	5%	6.4	0.46	0.6	1.04
ULL-031-08	6mm EnergyTech Clear	☆☆☆	★★★	39%	28%	4.9	0.52	0.6	1.04

WERS Certified Energy Performance Results



Ullrich Aluminium						Cool %	Heat %	Total Window - AFRC			
Window ID	Glazing	Cooling Stars	Heating Stars					Uw	SHGC	Tvw	Air Inf
Ultimate 100mm Double Hung – Double Glazed											
ULL-032-01	4mm Clear / 8mm Argon / 6.38mm ComfortPlus Grey	★★★★	★★★★★	46%	41%	3.7	0.50	0.3	1.04		
ULL-032-02	4mm Clear / 8mm Argon / 6.38mm ComfortPlus Neutral	★★★★	★★★★★	47%	41%	3.7	0.49	0.4	1.04		
ULL-032-03	4mm Clear / 8mm Argon / 6.38mm ComfortPlus Green	★★★★	★★★★★	46%	41%	3.7	0.50	0.5	1.04		
ULL-032-04	4mm Clear / 8mm Argon / 6.38mm ComfortPlus Clear	★★★★☆	★★★★★☆☆	44%	42%	3.7	0.53	0.5	1.04		
ULL-032-05	4mm Clear / 10mm Argon / 4mm Clear	★★★★☆	★★★★★	38%	38%	4.2	0.57	0.6	1.04		
ULL-032-06	4mm Clear / 10mm Argon / 4mm EnergyTech Clear	★★★★☆	★★★★★☆☆	44%	44%	3.6	0.53	0.6	1.04		
ULL-032-07	4mm Clear / 8mm Argon / 6mm EnergyTech Clear	★★★★☆	★★★★★☆☆	44%	42%	3.7	0.53	0.5	1.04		
Ultimate 100mm Sliding Door - Double Glazed											
ULL-033-01	4mm Clear / 8mm Argon / 6.38mm ComfortPlus Grey	★★★★	★★★★★	46%	50%	3.2	0.53	0.3	0.12		
ULL-033-02	4mm Clear / 8mm Argon / 6.38mm ComfortPlus Neutral	★★★★	★★★★★	47%	50%	3.2	0.53	0.4	0.12		
ULL-033-03	4mm Clear / 8mm Argon / 6.38mm ComfortPlus Green	★★★★	★★★★★	46%	50%	3.2	0.53	0.5	0.12		
ULL-033-04	4mm Clear / 8mm Argon / 6.38mm ComfortPlus Clear	★★★★☆	★★★★★	44%	51%	3.2	0.57	0.6	0.12		
ULL-033-05	4mm Clear / 10mm Argon / 4mm Clear	★★★★	★★★★★☆☆	37%	47%	3.7	0.61	0.6	0.12		
ULL-033-06	4mm Clear / 10mm Argon / 4mm EnergyTech Clear	★★★★☆	★★★★★	44%	53%	3.1	0.57	0.6	0.12		
ULL-033-07	4mm Clear / 8mm Argon / 6mm EnergyTech Clear	★★★★☆	★★★★★	43%	51%	3.2	0.57	0.6	0.12		
Ultimate 100mm Sliding Door - Single Glazed											
ULL-034-01	6.38mm ComfortPlus Grey	★★★★☆	★★★★★☆☆	50%	29%	4.4	0.40	0.3	0.12		
ULL-034-02	6.38mm ComfortPlus Neutral	★★★★	★★★★★☆☆	49%	30%	4.4	0.42	0.5	0.12		
ULL-034-03	6.38mm ComfortPlus Green	★★★★	★★★★★☆☆	50%	30%	4.4	0.41	0.6	0.12		
ULL-034-04	6.38mm ComfortPlus Clear	★★★★☆	★★★★★	39%	37%	4.4	0.56	0.7	0.12		
ULL-034-05	6mm Clear	★	★★★☆☆	20%	20%	6.1	0.67	0.7	0.12		
ULL-034-06	6mm Grey	★★	★★	37%	10%	6.1	0.47	0.3	0.12		
ULL-034-07	6mm Green	★★	★★	35%	12%	6.1	0.50	0.6	0.12		
ULL-034-08	6mm EnergyTech Clear	★★	★★★★★	38%	37%	4.4	0.57	0.7	0.12		
Ultimate 165mm Sliding Door - Single Glazed											
ULL-035-01	6.38mm ComfortPlus Grey	★★★★	★★★★★	49%	26%	4.6	0.40	0.3	0.18		
ULL-035-02	6.38mm ComfortPlus Neutral	★★★★	★★★★★	48%	27%	4.6	0.41	0.5	0.18		
ULL-035-03	6.38mm ComfortPlus Green	★★★★	★★★★★	49%	27%	4.6	0.41	0.6	0.18		
ULL-035-04	6.38mm ComfortPlus Clear	★★★	★★★★★☆☆	38%	34%	4.6	0.55	0.7	0.18		
ULL-035-05	6mm Clear	★	★★★☆☆	19%	16%	6.3	0.66	0.7	0.18		
ULL-035-06	6mm Grey	★★	★★	36%	7%	6.3	0.47	0.3	0.18		
ULL-035-07	6mm Green	★★	★★	34%	9%	6.3	0.50	0.6	0.18		
ULL-035-08	6mm EnergyTech Clear	★★	★★★★★☆☆	37%	34%	4.6	0.56	0.7	0.18		
Ultimate 165mm Sliding Door - Double Glazed											
ULL-036-01	4mm Clear / 8mm Argon / 6.38mm ComfortPlus Grey	★★★★	★★★★★☆☆	45%	47%	3.4	0.53	0.3	0.18		
ULL-036-02	4mm Clear / 8mm Argon / 6.38mm ComfortPlus Neutral	★★★★	★★★★★☆☆	46%	47%	3.4	0.53	0.4	0.18		
ULL-036-03	4mm Clear / 8mm Argon / 6.38mm ComfortPlus Green	★★★★	★★★★★☆☆	45%	47%	3.4	0.53	0.5	0.18		
ULL-036-04	4mm Clear / 8mm Argon / 6.38mm ComfortPlus Clear	★★★★☆	★★★★★	43%	48%	3.4	0.56	0.6	0.18		
ULL-036-05	4mm Clear / 10mm Argon / 4mm Clear	★★★	★★★★★☆☆	36%	44%	4.0	0.61	0.6	0.18		
ULL-036-06	4mm Clear / 10mm Argon / 4mm EnergyTech Clear	★★★★☆	★★★★★	43%	50%	3.3	0.57	0.6	0.18		
ULL-036-07	4mm Clear / 8mm Argon / 6mm EnergyTech Clear	★★★★☆	★★★★★	42%	48%	3.4	0.57	0.6	0.18		

Acoustic Results

Sound Comfort Lifestyle

Ullrich Aluminium						
Acoustic Performance						
Test #	Type	Configuration	Size	Glazing	R _w (C ; C _{tr})	Test date
4857-1	100mm Double hung window	DH-F	1200 x 1800	6.5mm Vlam Hush	31 (0 ; -2)	11th July 2012
4857-2	100mm Double hung window	DH-F	1200 x 1800	6.38mm Vlam	30 (-1 ; -1)	11th July 2012
4857-3	100mm Awning window	A	1200 x 1800	6.5mm Vlam Hush	35 (-1 ; -3)	11th July 2012
4857-4	100mm Awning window	A	1200 x 1800	6.38mm Vlam	33 (-1 ; -2)	11th July 2012
4857-5	100mm Awning window	A	1200 x 1800	10.5mm Vlam Hush	38 (-1 ; -4)	11th July 2012
4857-6	100mm Sliding door	XO	2100 x 1800	6.38mm Vlam	33 (-1 ; -3)	3rd October 2012
4857-7	100mm Sliding door	XO	2100 x 1800	10.38mm Vlam	34 (-1 ; -2)	3rd October 2012
4857-8	100mm Sliding door	XO	2100 x 1800	6.76mm Sound Control Laminate	35 (-1 ; -4)	3rd October 2012
4857-9	100mm Sliding door	XO	2100 x 1800	10.76mm Sound Control Laminate	37 (0 ; -3)	3rd October 2012
4857-10	165mm Secondary glazed sliding door	XO/XO	2100 x 1800	10.76mm Sound Control Laminate / 87mm air space / 6.76mm Sound Control Laminate	49 (-3 ; -8)	3rd October 2012
4857-11	165mm Secondary glazed sliding door	XO/XO	2100 x 1800	10.38mm Vlam / 87mm air space / 6.38mm Sound Control Laminate	47 (-1 ; -7)	3rd October 2012

Using the R_w index (C ; C_{tr})

Environmental noise must be reduced by building materials from levels which are uncomfortable to levels which are acceptable to the occupants and users.

The acoustic insulation property of a building material is defined by an index representing the difference between internal and external noise levels.

The acoustic insulation performance of a building element is the R sound reduction index. Designers use the R index for building materials to help achieve the specified noise reduction level.

Weighted reduction index R_w

This is the most common method of rating sound insulation in buildings and building elements. It incorporates a weighted correction for the human ear and is expressed in dB. Calculation methods use a standard noise spectrum and are detailed in EN ISO 717-1.

Spectrum adaptation terms - C and C_{tr}

Depending on how a window is assembled and installed, it may under-perform at low, medium or high frequencies. Optimum performance can be achieved from a unit when it provides good acoustic insulation at the frequencies where the noise is at its greatest. Good acoustic insulation against specific types of noise can also be achieved by modifying the type and composition of the glazing. Until recently, glazing specification has been based on a single performance figure, without taking all the characteristics of the noise source into account, which can sometimes lead to unwise investment and over-specification.

For this reason a common index has been created : R_w (C;C_{tr}).

The correction C_{tr} should be used when the source of the noise in question is road traffic. For outside background noise it is better to use the correction C. Both corrections are generally negative and are deducted from the R_w to determine the noise reduction properties of a building element. They are provided by test laboratories and appear alongside the value for R_w.

Example

According to EN ISO 717-1 the formula is : R_w (C;C_{tr}) = 37 (-4;-9)

This means that the sound insulation value for a facade is 37 dB and is reduced by 9 dB for traffic noise.



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