

minima  
SLIDING











Ultraline enhances contemporary living environments with no visual compromise.

'MORE OF A VIEW' The Ultraline sliding doors advanced design and engineering delivers 20mm sightlines throughout the visible system.

This combined with PAS 24:2016, Part Q certification makes the Ultraline sliding door unrivalled in both security and aesthetic appearance.

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# Ultraline Systems

The most minimal glazing system that provides an opportunity to create what has been imagined and re-define the boundaries of what is achievable.

Ultraline has been designed around a clear vision.

'MORE OF A VIEW'



## Individual Panel Size

4.2 meters wide or 3.2 meters high and up to 9 m<sup>2</sup>.

## Sightlines

20mm sightlines throughout the visible system.

Number of Tracks	Depth
------------------	-------

Single Track	77mm
Double Track	155mm
Triple Track	233mm
Quad Track	310mm

## Runner Mechanism

Solid stainless runners and tracks guarantee smooth sliding throughout the life of the system.

## Flush Track With Integrated Drainage

Profiles are fully drained throughout the system onto an integrated drain tray which is compatible with all drainage systems.





# Technical Specification



Ultraline 2    Double Glazed  
                  U Value 1.22

Ultraline 3    Triple Glazed  
                  U Value 0.7

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Maximum panel width

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Maximum panel height

---

Maximum panel size

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Maximum panel weight

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Sightline

---

Runner mechanism

---

Uw value for double glazed units (glass Ug = 1.1)

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Uw value for triple glazed units (glass Ug = 0.6)

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Glass thickness

---

Sound insulation

---

Water tightness

---

Air permeability

---

Wind loading

---

Security rating

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# Technical Specification

## Ultraline 2

---

4200mm

---

3200mm

---

9 Sqm

---

340Kg

---

20mm all the way around

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Stainless steel

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Uw - 1.22 W/m2k

---

36mm

---

Rw.p 33 db - 42 db

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9A (EN 12208 / EN 1027\*)

---

C4 (EN 12207 / EN 12211\*)

---

C3 (EN 12210 / EN 1627\*)

---

PAS 24 compliant (Max panel size 7.5 Sqm)

---

## Ultraline 3

---

2700mm

---

3200mm

---

5.4 Sqm

---

225Kg

---

20mm all the way around

---

Stainless steel

---

Uw - 0.7 W/m2k

---

46mm

---

Rw.p 33 db - 42 db

---

9A (EN 12208 / EN 1027\*)

---

C4 (EN 12207 / EN 12211\*)

---

C3 (EN 12210 / EN 1627\*)

---

PAS 24 compliant (Max panel size 5.4 Sqm)

---



























# Configurations

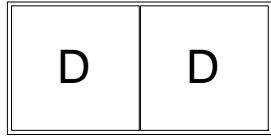
## Standard Configurations (VIEWED OUTSIDE)

### Opening Configurations for 1-Track Ultraline Sliding Doors



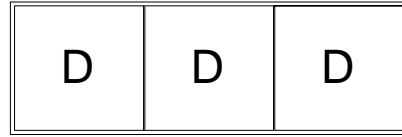
Style 411

Single Track - Fixed Window



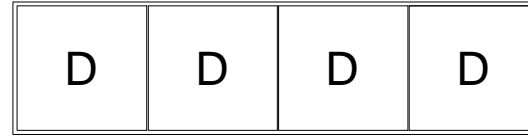
Style 412SR

Single Track - Fixed Window



Style 413SR

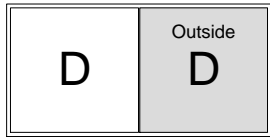
Single Track - Fixed Window



Style 414SR

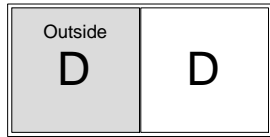
Single Track - Fixed Window

### Opening Configurations for 2-Track Ultraline Sliding Doors



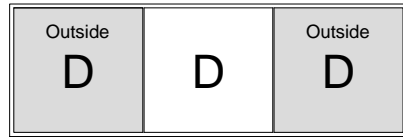
Style 421D

Double Track



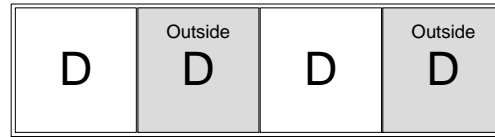
Style 422D

Double Track



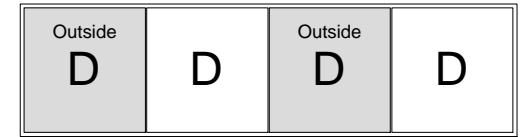
Style 425D

Double Track



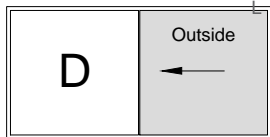
Style 421D-421D

Double Track



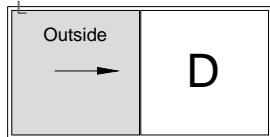
Style 422D-422D

Double Track



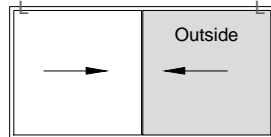
Style 421

Double Track



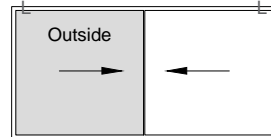
Style 422

Double Track



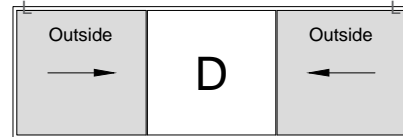
Style 423

Double Track



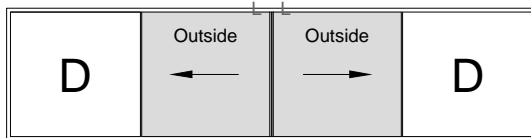
Style 424

Double Track



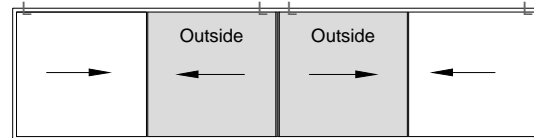
Style 425

Double Track



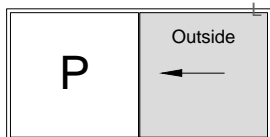
Style 426

Double Track



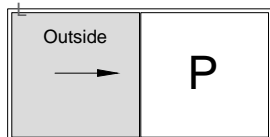
Style 427

Double Track



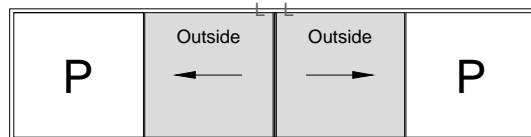
Style 421P

Double Track



Style 422P

Double Track

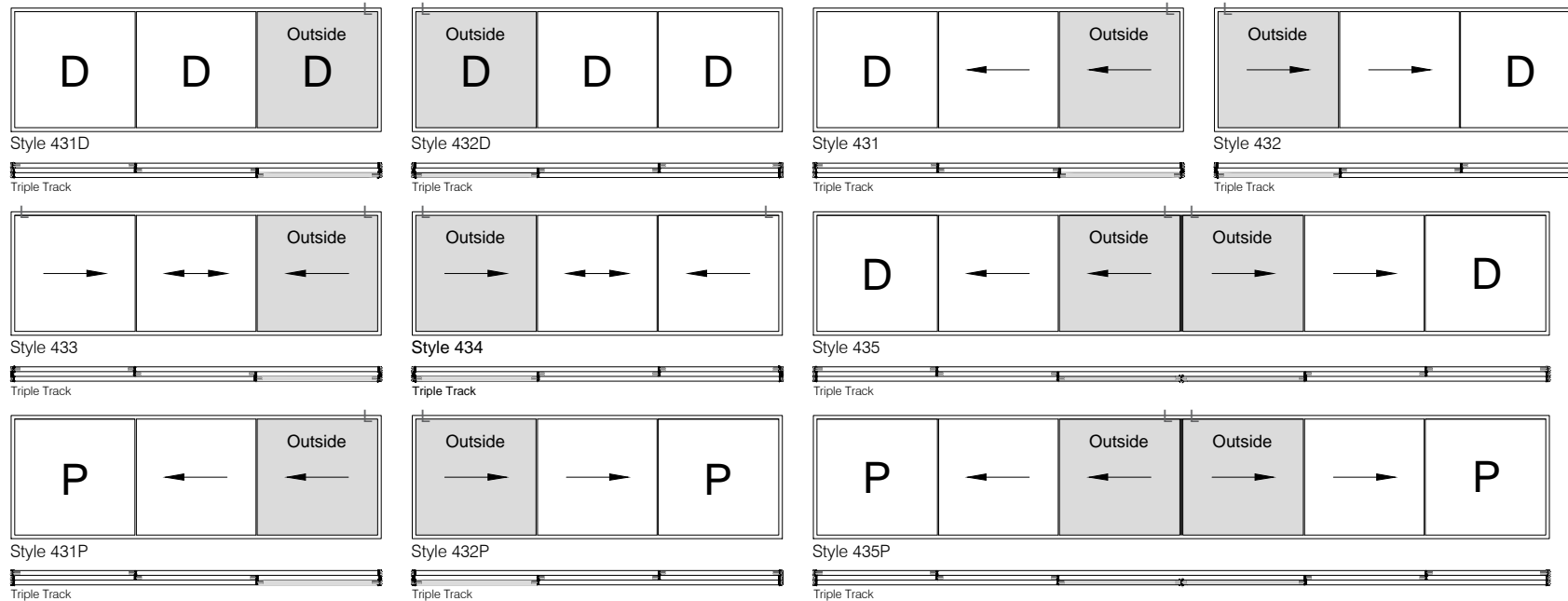


Style 426P

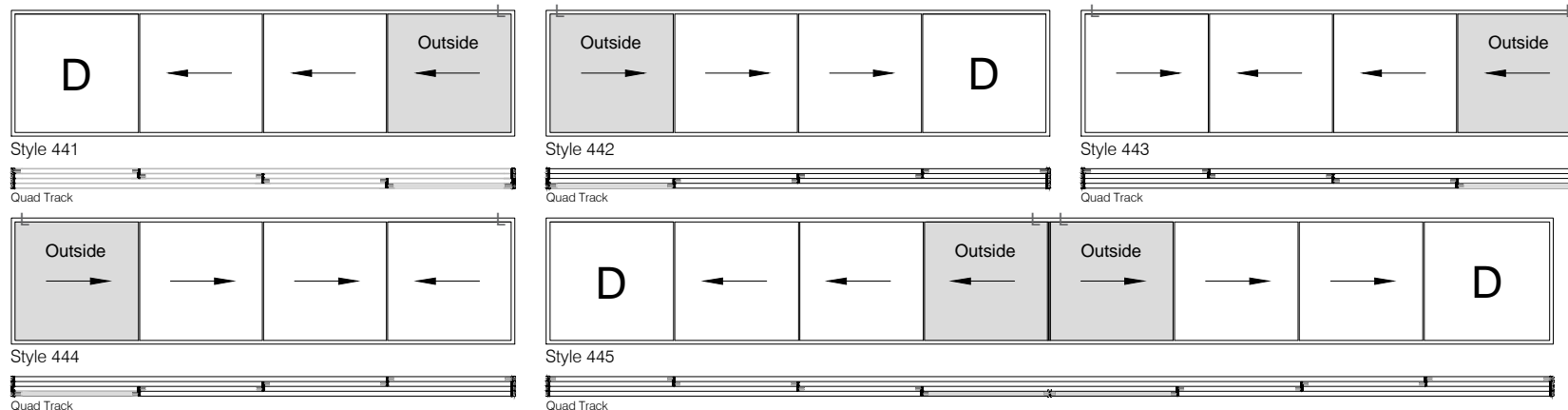
Double Track



## Opening Configurations for 3-Track Ultraline Sliding Doors



## Opening Configurations for 4-Track Ultraline Sliding Doors



F = Fixed Frame

P = Pocket

D = Dummy Frame

L = Lock Position

← = Sliding Direction



# Innovation

Integrated handle incorporated into the sash profile gives a Unique 20mm sightline when open, maintaining minimal equal sightlines throughout the visible system.

Electric high security locking mechanism controlled by Niko wall switch as standard.

Smart technology can be achieved using a Niko Gateway.



The doors can also be locked in a 100mm vented position.



In the event of a power fail, the lock goes into safe mode and the bolt is released to secure the doors. An override access panel is discreetly positioned in the top of the door frame. By removing its magnetic cover, you can manually override to lock or unlock the system.











## Finishes

### Anodised Brushed Platinum

This unique finish creates a stainless steel appearance. Its translucent look enhances any view. With its marine grade quality, it is ideal for coastal applications.

### Powder Coated 7021 Black Grey Matt finish

### Powder Coated 7016 Anthracite Grey Matt finish

### Powder Coated 9005 Jet Black Matt finish

The anodising finishes used are guaranteed by the European EWAA-EURAS seal of approval, and the powder coating is guaranteed by the highest European seals of approval: QUALICOAT, COASTAL and QUALIDECO. These certifications guarantee that the anodising and powder coated finishes reach the most demanding European quality levels.

## Security

Approved Document Q sets out the minimum standard for windows and doors installed in all new dwellings. Doors installed which are easily accessible ie ground floor / basements, must meet or exceed the security requirements of PAS24:2016.

This requirement is designed to ensure windows and doors resist physical attack by a casual or opportunist burglar by being sufficiently robust and fitted with appropriate hardware.









# Glazing

## Ultraline 2 Standard Specifications

6mm toughened, low 'e' 24mm warm edge spacer, argon, 6mm toughened

Ug-Value (W/(m2.K))	1.2
Light Transmission	79
Solar Factor (g)	66

8mm toughened, low 'e' 20mm warm edge spacer, argon, 8mm toughened (For panels above 5.5m2)

Ug-Value (W/(m2.K))	1.2
Light Transmission	79
Solar Factor (g)	64

6mm toughened, low 'e' 22mm warm edge spacer, argon, 8.8mm clear laminate (For Part Q compliance)

Ug-Value (W/(m2.K))	1.2
Light Transmission	76
Solar Factor (g)	60

8mm toughened, low 'e' 18mm warm edge spacer, argon, 10.8mm clear laminate (For Part Q compliance)

Ug-Value (W/(m2.K))	1.2
Light Transmission	74
Solar Factor (g)	58

## Ultraline 2 High Performance Specifications

6mm toughened, solar neutral HP 70-35, 24mm warm edge spacer, argon, 6mm toughened

Ug-Value (W/(m2.K))	1.1
Light Transmission	70
Solar Factor (g)	38

8mm toughened, solar neutral HP 70-35, 20mm warm edge spacer, argon, 8mm toughened (For panels above 5.5m2)

Ug-Value (W/(m2.K))	1.0
Light Transmission	69
Solar Factor (g)	38

6mm toughened, solar neutral HP 70-35, 22mm warm edge spacer, argon, 8.8mm clear laminate (For Part Q compliance)

Ug-Value (W/(m2.K))	1.0
Light Transmission	69
Solar Factor (g)	38

8mm toughened, solar neutral HP 70-35, 18mm warm edge spacer, argon, 10.8mm clear laminate (For Part Q compliance)

Ug-Value (W/(m2.K))	1.0
Light Transmission	69
Solar Factor (g)	38



## Ultraline 3 Standard Specifications

6mm toughened, low 'e' 14mm warm edge spacer, argon, 6mm toughened, low 'e' 14mm warm edge spacer, argon, 6mm toughened

Ug-Value (W/(m2.K))	0.7
Light Transmission	62
Solar Factor (g)	42

6mm toughened, low 'e' 14mm warm edge spacer, argon, 6mm toughened, low 'e' 14mm warm edge spacer, argon, 6.4mm laminated (For Part Q compliance)

Ug-Value (W/(m2.K))	0.7
Light Transmission	62
Solar Factor (g)	42

## Ultraline 3 High Performance Specifications

6mm toughened, solar neutral HP 70-35, 14mm warm edge spacer, argon, 6mm toughened, low 'e' 14mm warm edge spacer, argon, 6mm toughened

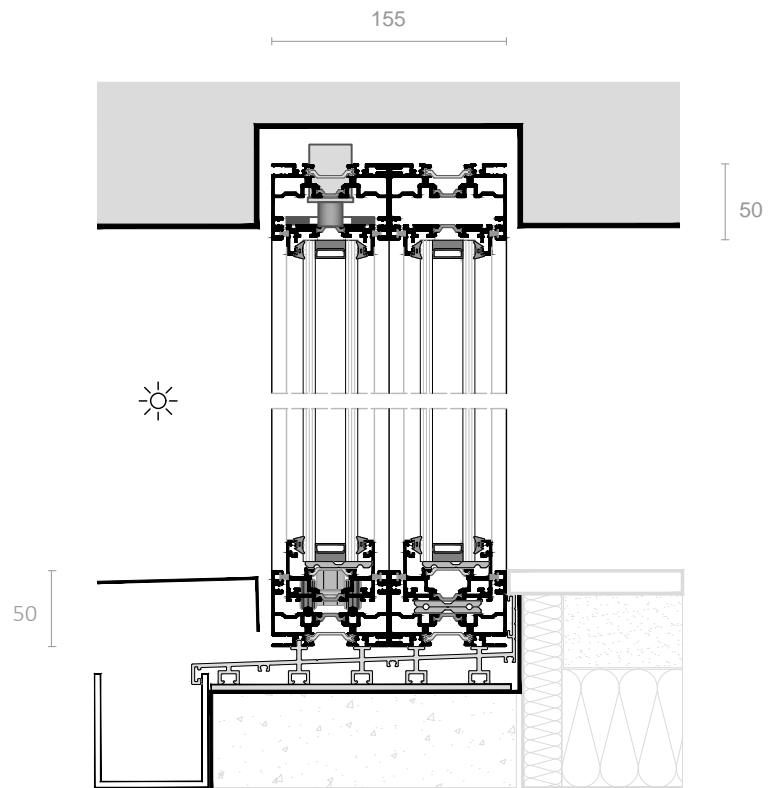
Ug-Value (W/(m2.K))	0.6
Light Transmission	62
Solar Factor (g)	31

6mm toughened, solar neutral HP 70-35, 14mm warm edge spacer, argon, 6mm toughened, low 'e' 14mm warm edge spacer, argon, 6.4mm laminated (For Part Q compliance)

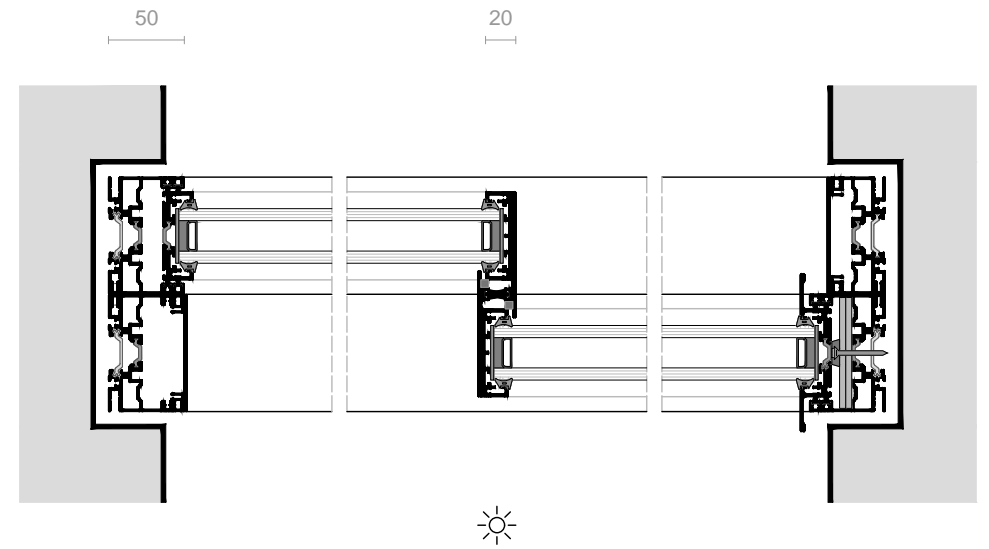
Ug-Value (W/(m2.K))	0.6
Light Transmission	62
Solar Factor (g)	31

# Detail Section Drawings

## Ultraline 2



Vertical Section

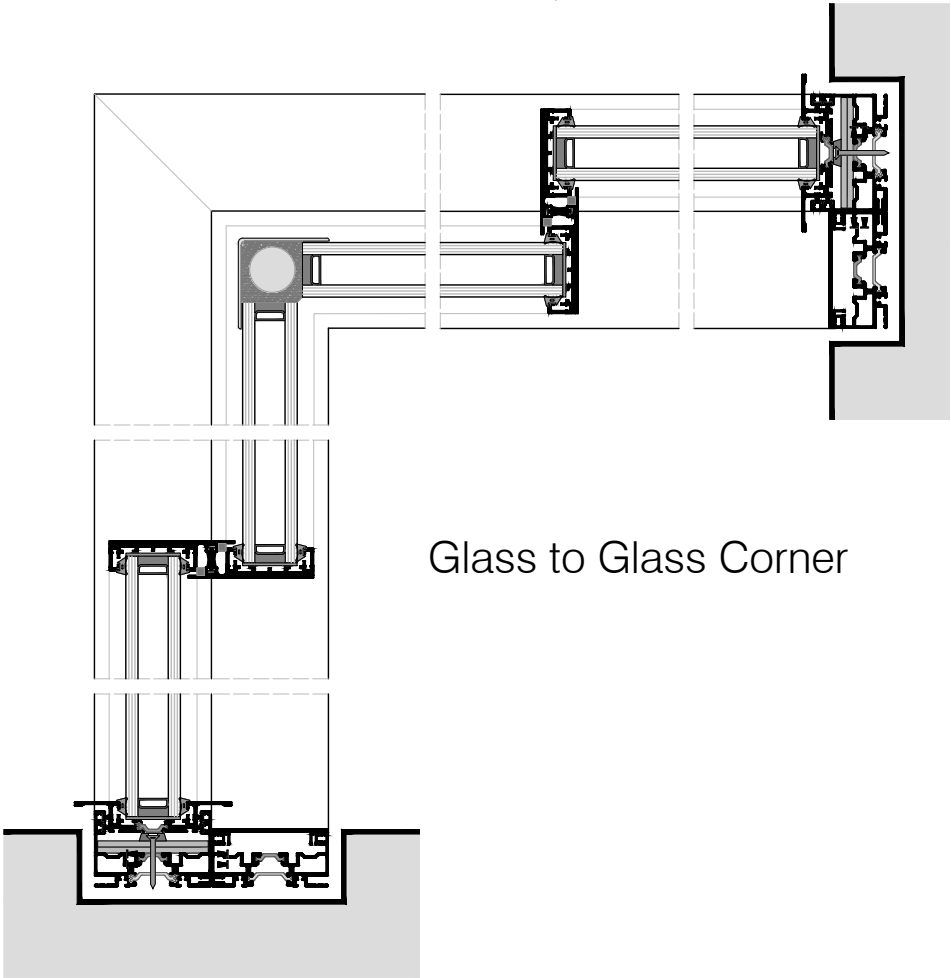
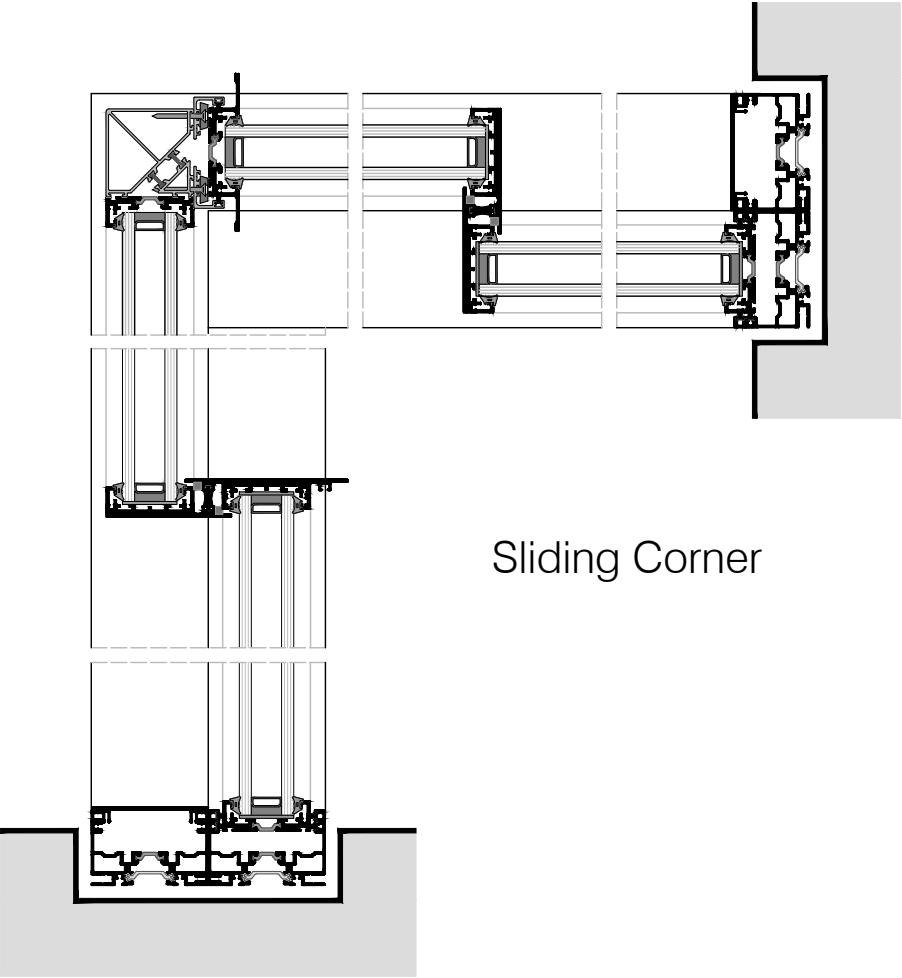


Horizontal Section



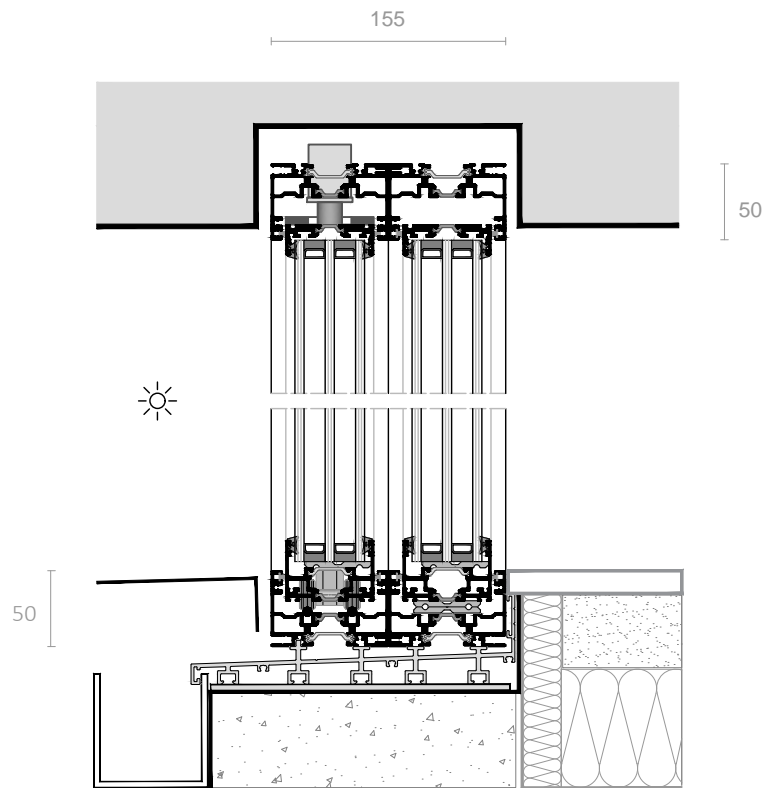
# Corner Section Drawings

Ultraline 2

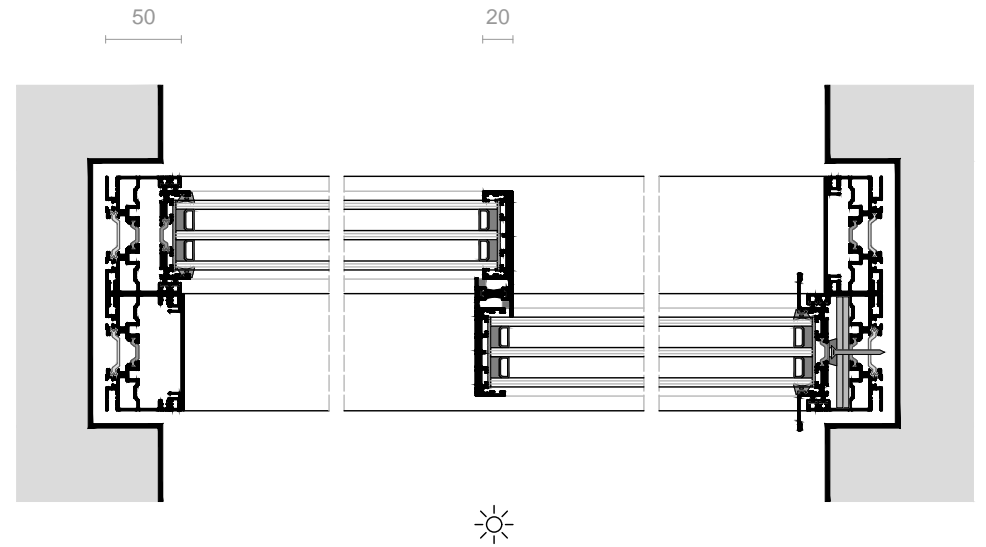


# Detail Section Drawings

## Ultraline 3



Vertical Section

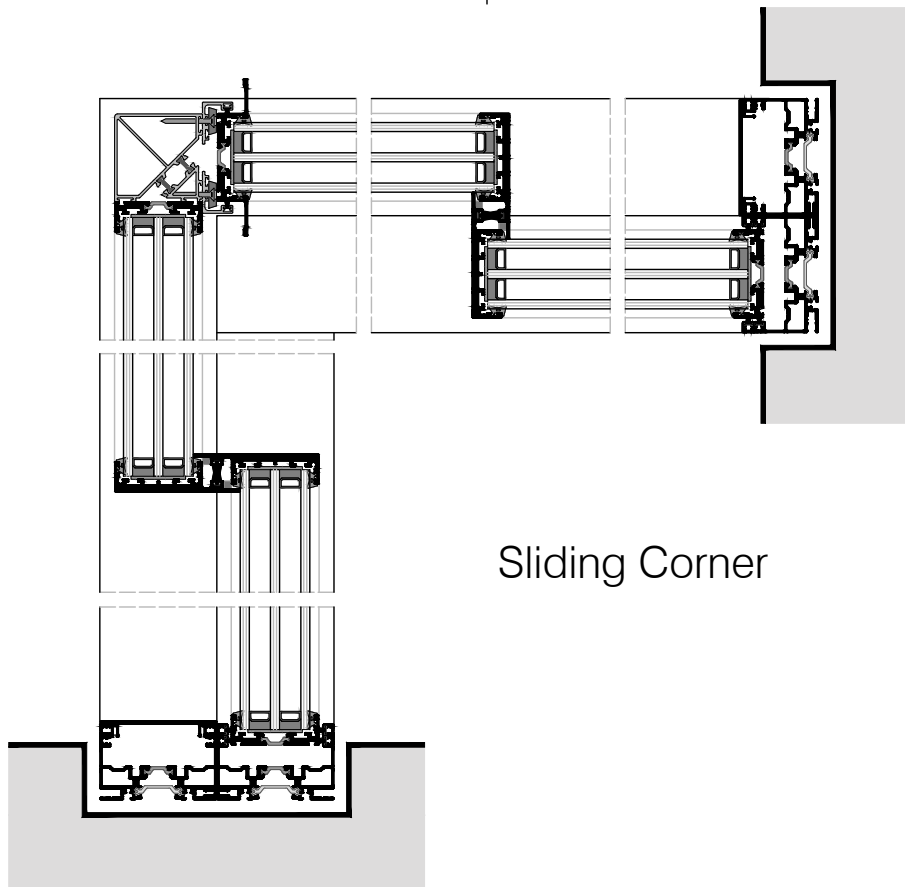


Horizontal Section

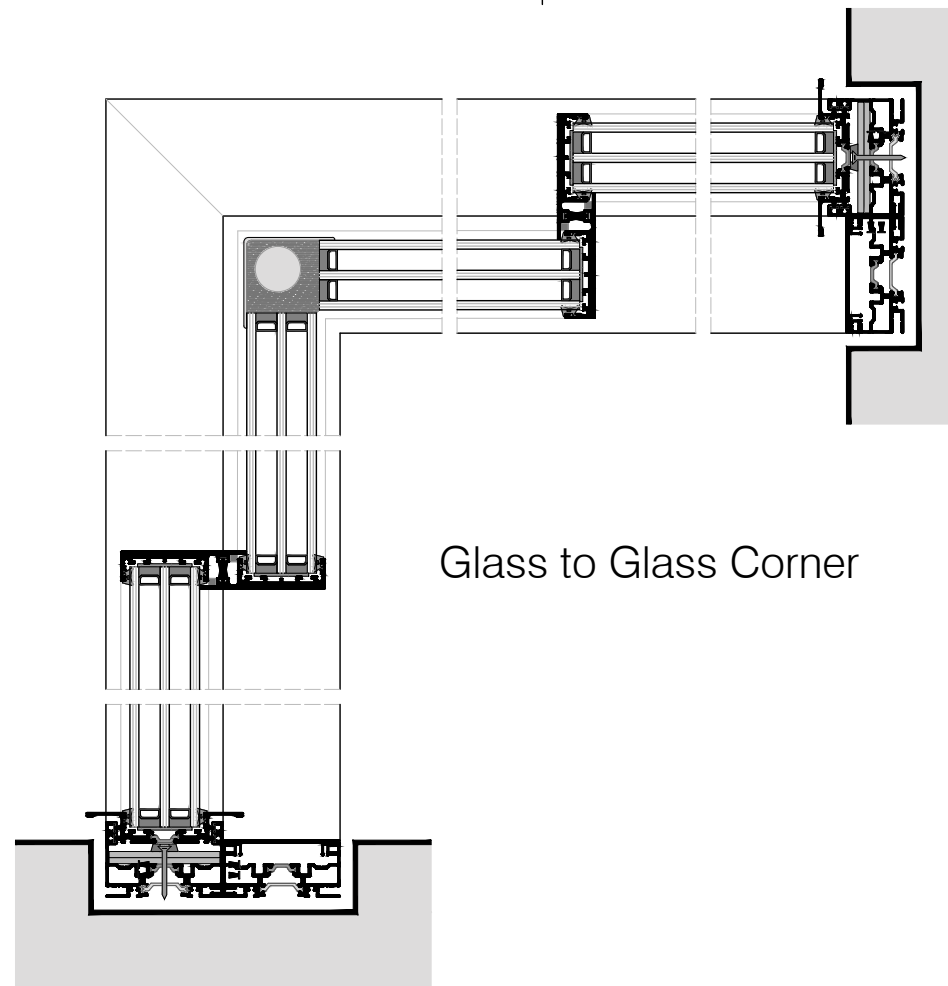


# Corner Section Drawings

Ultraline 3



Sliding Corner



Glass to Glass Corner







# MORE OF A VIEW

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