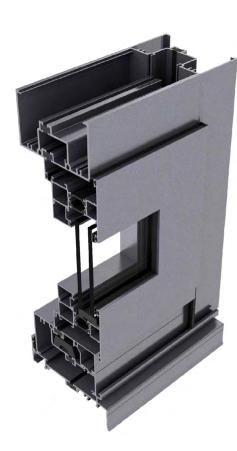


U-Max[™] THERMAL BREAK Multi Locking Sashes U-Max Framing Systems: UMULTILOCK - 1

Multi Locking Awning & Casement Sashes



FEATURES:

- Sash Adaptor Mitre cut adaptable to Centre & Front Glaze
- Multi Locking as a turn handle sill mounted as an awning
- Multi Locking as a turn handle side mounted as a casement
- 180kg as an Awning Window
- 72kg Sash weight as a Casement Window
- Capable of 2.4 x 1.2m Sashes subject to limits in stay charts for Awnings or Casements

Optional Beads allow 6mm - 50mm Glass thicknesses

FABRICATION:

- Mitre cut
- Stainless Steel Corner Chevrons provide superior strength & caqn be conceal glued
- Sash is crimped for strength
- Requires specialist machining to fit locks & other hardware

PRODUCT APPLICATIONS:

- Very large Sashes due to multi locking function
- High windload areas
- Improved Acoustics through wide range of glass types
- Operable blinds in IGUs

LIMITATION:

• No screen option unless winder operated or retractable screens

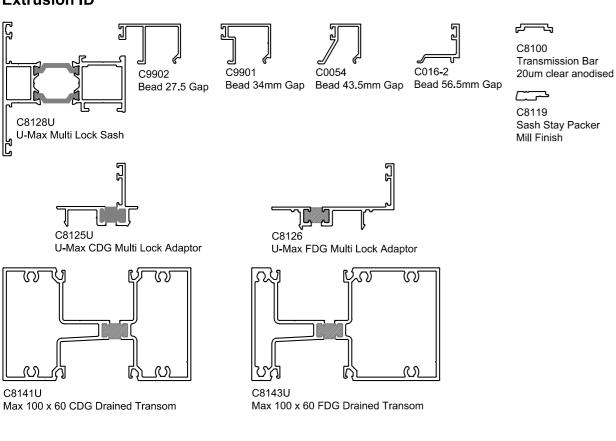
HARDWARE SELECTION:

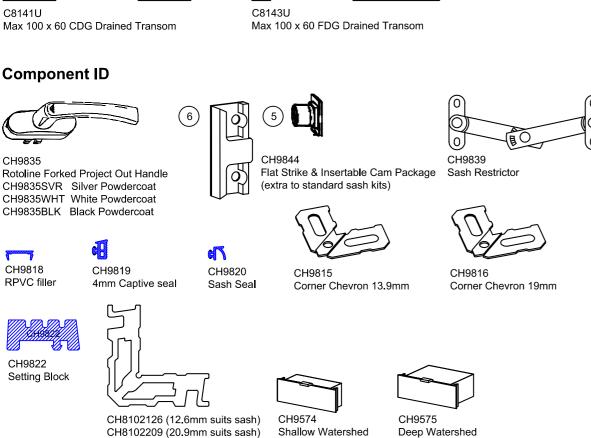
Selecting the correct hardware for application is determined by many factors that change on a project by project basis. Careful consideration needs to be given to opening type, size & weight, wind loads, location within the building, security, ease of operation, budget, serviceability & aesthetic requirements.

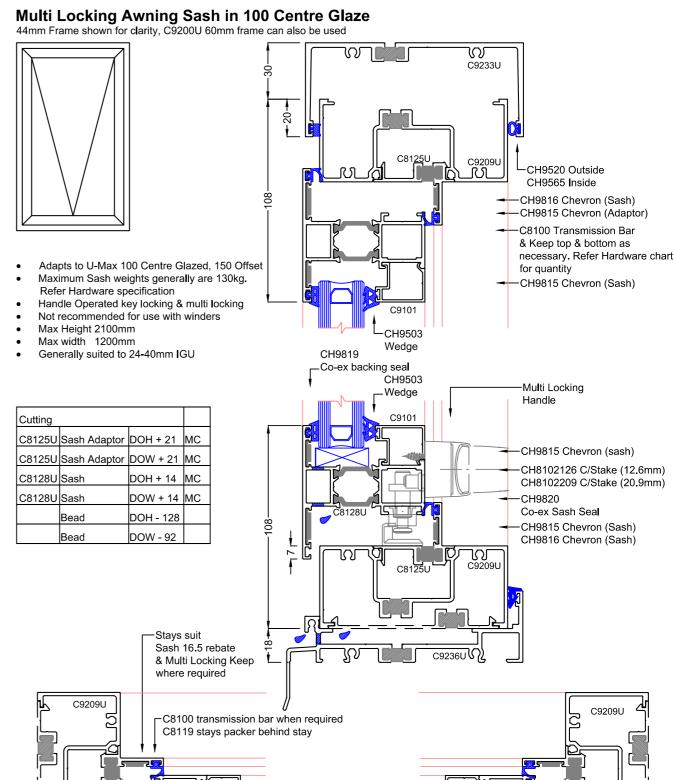
Typical hardware is shown throughout our catalogues to depict opening types & function. There are a range of sash types available to cover a variety of applications. Once the opening type has been selected, it is the responsibility of the fabricator to determine hardware suitability with the hardware manufacturer, ensuring their selection meets project requirements.



U-Max[™] THERMAL BREAK Multi Locking Sashes U-Max Framing Systems: UMULTILOCK - 2 **Extrusion ID**







Cornerstake 17.3mm

W

C8125U

C9233U

-CH9520 Outside

CH9565 Inside

CH9816 Chevron (Sash)

for quantity

-CH9815 Chevron (Adaptor) -C8100 Transmission Bar

& Keep top & bottom as

CH9815 Chevron (Sash)

necessary. Refer Hardware chart

C9261U

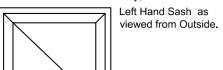
-109.5-



U-Max[™] THERMAL BREAK Multi Locking Sashes

U-Max Framing Systems: UMULTILOCK - 3

Multi Locking Casement Sash in 100 Centre Glaze 44mm Frame shown for clarity, C9200U 60mm frame can also be used



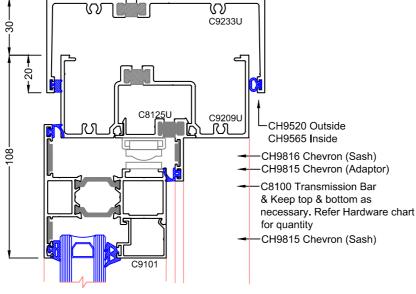


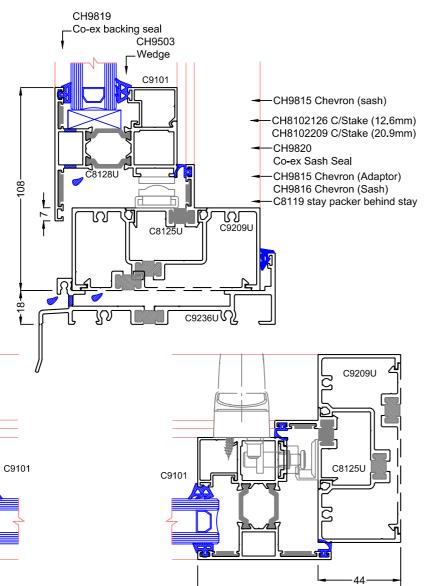
- Adapts to Max 100 Centre Glazed, 150 Offset, 100 & 150 Front Glazed
- Maximum Sash weights generally are 72kg. Refer Stay Charts
- Handle Operated key locking & multi
- Not recommended for use with winders
- Max Height 2400mm
- Max width 900mm
- Generally suited to 24-40mm IGU

Cutting			
C8125U	Sash Adaptor	DOH + 21	МС
C8125U	Sash Adaptor	DOW + 21	мс
C8128U	Sash	DOH + 14	МС
C8128U	Sash	DOW + 14	мс
	Bead	DOH - 128	
	Bead	DOW - 92	

C9209U

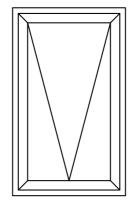
C8125U



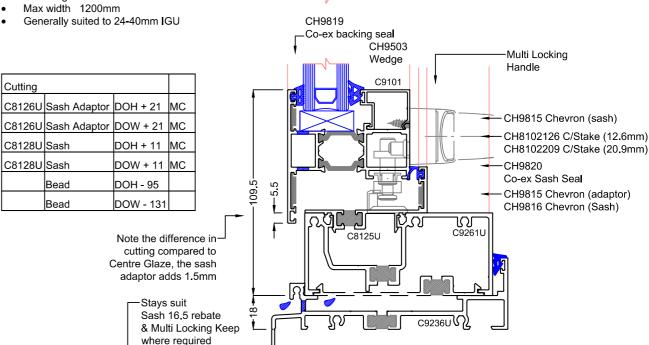


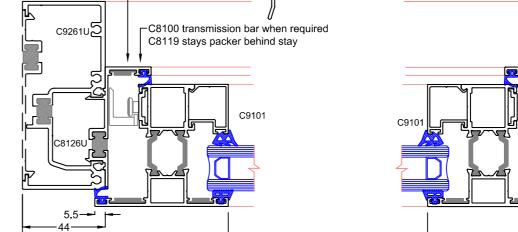
Multi Locking Awning Sash in 100 Front Glaze

44mm Frame shown for clarity, C9250U 60mm frame can also be used



- Adapts to U-Max 100 & 150 Front Glazed
- Maximum Sash weights generally are 130kg. Refer Hardware specification
- Handle Operated key locking & mult locking
- Not recommended for use with winders
- Max Height 2400mm





-Multi Locking Keep

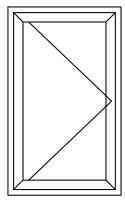
where required



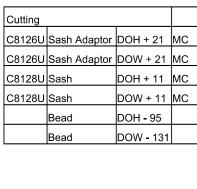
U-Max[™] THERMAL BREAK Multi Locking Sashes U-Max Framing Systems: UMULTILOCK - 4

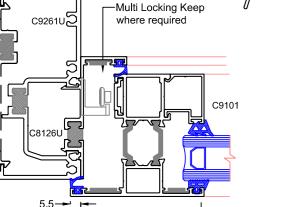
Multi Locking Casement Sash in 100 Front Glaze

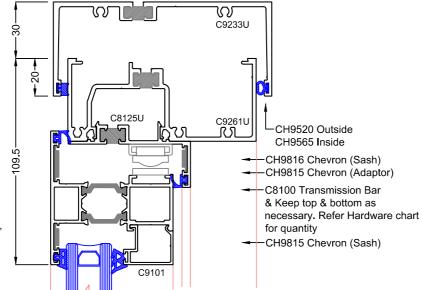
44mm Frame shown for clarity, C9250U 60mm frame can also be used



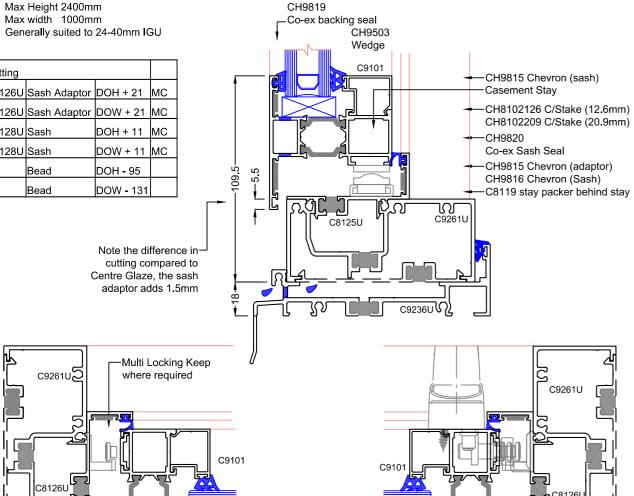
- Adapts to Max 100 Centre Glazed, 150 Offset, 100 & 150 Front Glazed
- Maximum Sash weights generally are 72kg. Refer Stay Charts
- Handle Operated key locking & multi locking
- Not recommended for use with winders
- Max Height 2400mm



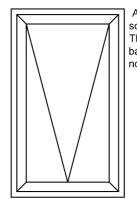




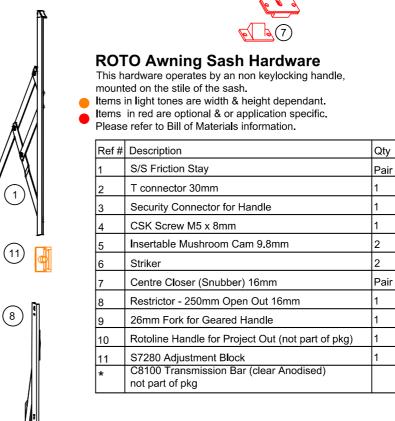
108-

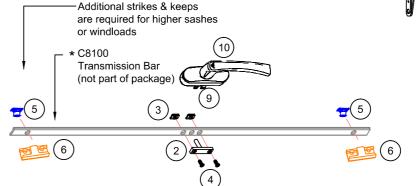


Multi Locking Awning Hardware ID



Awning Sash hardware in the schematic is shown from Inside. The handle is fitted centrally off the back of the sash bottom rail & non-key locking as standard.

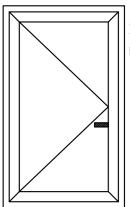




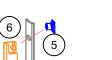
(8)



U-Max[™] THERMAL BREAK Multi Locking Sashes U-Max Framing Systems: UMULTILOCK - 5 Multi Locking Casement Hardware ID



Left Hand Casement Sash depicted as viewed from Outside. The hardware schematic view below however is viewed from Inside.



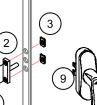
ROTO Casement Sash Hardware

This hardware operates by an non keylocking handle, mounted on the stile of the sash.

- Items in light tones are width & height dependant.
- Items in red are optional & or application specific. Please refer to Bill of Materials information.

6	5 **
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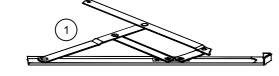


Ref#	Description	Qty
1	S/S Friction Stay	Pair
2	T connector 30mm	1
3	Security Connector for Handle	1
4	CSK Screw M5 x 8mm	1
5	Insertable Mushroom Cam 9.8mm **	2
6	Striker **	2
7	Centre Closer (Snubber) 16mm	Pair
9	26mm Fork for Geared Handle	1
10	Rotoline Handle for Project Out (not part of pkg)	1
*	C8100 Transmission Bar (clear Anodised) not part of pkg	

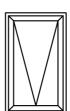


*C8100 Transmission Bar (not part of package)





Awning Hardware Packages



Hardware is variable dependant on Sash Height, Width, weight & handle finish. Select: Kit + Handle for a complete bill of materials

CHTH1	Project Out Sash Sash Height 300 - 500mm up to 40kg	
Ref#	Description	Qty
1	203mm Friction Stay	Pair
2	T Connector 30mm	1
3	Security Connector for Handle	1
4	CSK Screw M5 x 8	2
5	Insertable Mushroom Cam 9.8mm	2
6	Strike for 767006	2
7	Centre Closers (Snubber) 16mm	2
8	26mm Fork for Geared Handle	1

СНТН3	Project Out Sash Sash Height 701 - 1200mm up to 55kg	
Ref#	Description	Qty
1	406mm Friction Stay	Pair
2	T Connector 30mm	1
3	Security Connector for Handle	1
4	CSK Screw M5 x 8	2
5	Insertable Mushroom Cam 9.8mm	3
6	Strike for 767006	3
7	Centre Closers (Snubber) 16mm	1
8	26mm Fork for Geared Handle	1

СНТН5	Project Out Sash Sash Height 1201 - 1500mm up to 120kg	
Ref#	Description	Qty
1	660mm Friction Stay	Pair
2	T Connector 30mm	1
3	Security Connector for Handle	2
4	CSK Screw M5 x 8	2
5	Insertable Mushroom Cam 9.8mm	3
6	Strike for 767006	3
7	Centre Closers (Snubber) 16mm	1
8	26mm Fork for Geared Handle	1
10	Restrictor - 16mm Stack Height	1
11	S7280 Adjustment Block	1

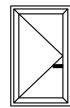
CHTH2	Project Out Sash Sash Height 501 - 700mm up to 45kg	
Ref#	Description	Qty
1	203mm Friction Stay	Pair
2	T Connector 30mm	1
3	Security Connector for Handle	1
4	CSK Screw M5 x 8	2
5	Insertable Mushroom Cam 9.8mm	2
6	Strike for 767006	3
7	Centre Closers (Snubber) 16mm	3
8	26mm Fork for Geared Handle	1

CHTH4	Project Out Sash Sash Height 1201 - 1500mm up to 75kg	
Ref#	Description	Qty
	559mm Friction Stay	Pair
2	T Connector 30mm	1
3	Security Connector for Handle	1
4	CSK Screw M5 x 8	3
5	Insertable Mushroom Cam 9.8mm	2
3	Strike for 767006	2
7	Centre Closers (Snubber) 16mm	1
3	26mm Fork for Geared Handle	1
10	Restrictor - 16mm Stack Height	1

СНТН6	Project Out Sash Sash Height 1201 - 1500mm up to 180kg	
Ref#	Description	Qty
1	660mm HD Friction Stay	Pair
2	T Connector 30mm	1
3	Security Connector for Handle	2
4	CSK Screw M5 x 8	2
5	Insertable Mushroom Cam 9.8mm	3
6	Strike for 767006	3
7	Centre Closers (Snubber) 16mm	1
8	26mm Fork for Geared Handle	1
10	Restrictor - 16mm Stack Height	1
11	S7280 Adjustment Block	1



U-Max[™] THERMAL BREAK Multi Locking Sashes U-Max Framing Systems: UMULTILOCK - 6 **Casement Hardware Packages**



Hardware is variable dependant on Sash Height, Width, Hand, Weight & handle finish. Select: Kit + Handle for a complete bill of materials

CHSH1	Casement Sash Sash Width 380 - 550mm up to 40kg	
Ref#	Description	Qty
1	305mm SS Friction Stay	Pair
2	Run Up Block - removed from package	
3	T Connector 30mm	1
4	Security Connector for Handle	1
5	CSK Screw M5 x 8	2
6	Insertable Mushroom Cam 9.8mm	2
7	Strike for 767006	2
8	Centre Closers (Snubber) 16mm	1
9	26mm Fork for Geared Handle	1

CHSH2	Casement Sash Sash Width 551 - 700mm up to 45kg	
Ref#	Description	Qty
1	405mm SS Friction Stay	Pair
2	Run Up Block - removed from package	
3	T Connector 30mm	1
4	Security Connector for Handle	1
5	CSK Screw M5 x 8	2
6	Insertable Mushroom Cam 9.8mm	3
7	Strike for 767006	3
8	Centre Closers (Snubber) 16mm	1
9	26mm Fork for Geared Handle	1

CHSH3	Casement Sash Sash Width 701 - 900mm up to 72kg	
Ref#	Description	Qty
1	405mm SS 4 Bar Csmnt Egress Stay	Pair
2	Run Up Block - removed from package	
3	T Connector 30mm	1
4	Security Connector for Handle	1
5	CSK Screw M5 x 8	2
6	Insertable Mushroom Cam 9.8mm	3
7	Strike for 767006	3
8	Centre Closers (Snubber) 16mm	1
9	26mm Fork for Geared Handle	1

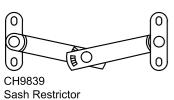


CH9835 Forked Handle non key locking suits awning & casement

Rotoline Handle (suits fork)			
Ref#	Code	Finish	
10	CH9835SVR	Silver Powdercoat	
10	CH9835WHT	White Powdercoat	
10	CH9835BLK	Black Powdercoat	

Example for Ordering

1800 x 1200 awning, White Handle CHTH4 Kit + CH9835WHT Handle



Ordered separately when required

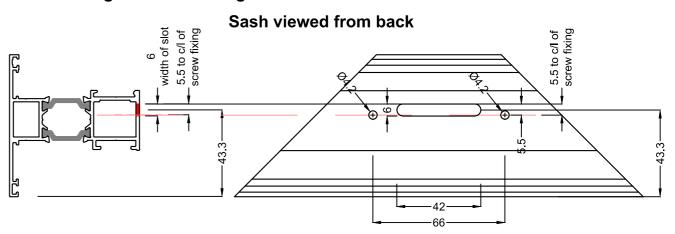




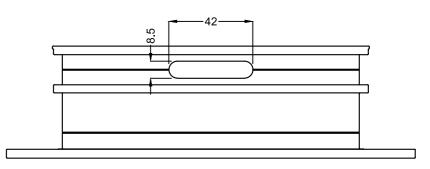


Flat Strike & Insertable Cam Package (extra to standard sash kits)

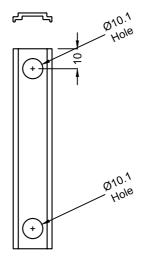
Multi Locking Sash Machining



Sash viewed from underneath

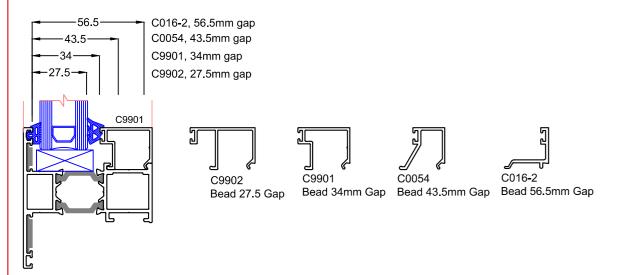


Transmission Bar Machining





U-Max™ THERMAL BREAK Multi Locking Sashes U-Max Framing Systems: UMULTILOCK - 7 Sash Glazing Details



Glazing Tape selection

Tremco 800, butyl tape available from 1.2mm thickness. Tremco polyshim butyl with EPDM spacer, 3.2mm thick

		Glass thickness	Example	Bead	Pocket	Glazing wedge	Gap
		22mm	4/14/4	C9902	27.5mm	CH9503	5.5mm
	ے	24mm	6/12/6	C9902	27.5mm	CH9502	3.5mm
	as	26mm	8/12/6	C9901	34mm	silicone	8mm
	S	28mm	4/20/4	C9901	34mm	CH9503	7mm
	ing	30mm	6/20/6	C9901	34mm	CH9501	4mm
	ockin	31-35mm		C0054	43.5mm	silicone	
یا	2	36mm	10/20/6	C0054	43.5mm	CH9503	7mm
la)	Ξ	36mm	4/12/4/12/4	C9901	43.5mm	CH9503	7mm
О-Мах	Mu	42mm	6/12/6/12/6	C016-2	56.5mm	silicone	
_		up to 53mm		C016-2	56.5mm		

Glazing Wedges

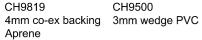


CH9819

Aprene









CH9501 4mm wedge PVC

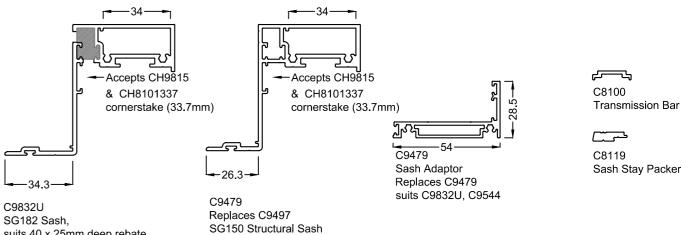


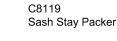
CH9502 5mm wedge PVC



7mm wedge PVC

Structural Sash Extrusion ID





Component ID

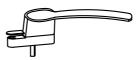
CH8101337

CH9839 Sash Restrictor

Cornerstake 33.7mm

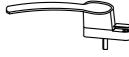
suit C9478, C9832U Sashes

suits 40 x 25mm deep rebate



RH Top Mounted Project Out handle

CH9840 RH Handle & Cover			
Ref#	Code	Finish	
6 & 7	CH9840SVR	Silver Powdercoat	
6 & 7	CH9840WHT	White Powdercoat	
6 & 7	CH9840BLK	Black Powdercoat	
6 & 7	CH9840BLK	Black Powdercoat	



suits C9832U, C9544

LH Top Mounted Project Out handle

CH9841 LH Handle & Cover				
Ref#	Code	Finish		
6 & 7	CH9841SVR	Silver Powdercoa		
6 & 7	CH9841WHT	White Powdercoa		
6 & 7	CH9841BLK	Black Powdercoat		







CH9815 Corner Chevron 13.9mm Suit C9832U Sash



CH13NEW Sash Bulb Seal suit C9241

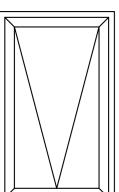
CH9580

Sash Gusset

Suit C9544



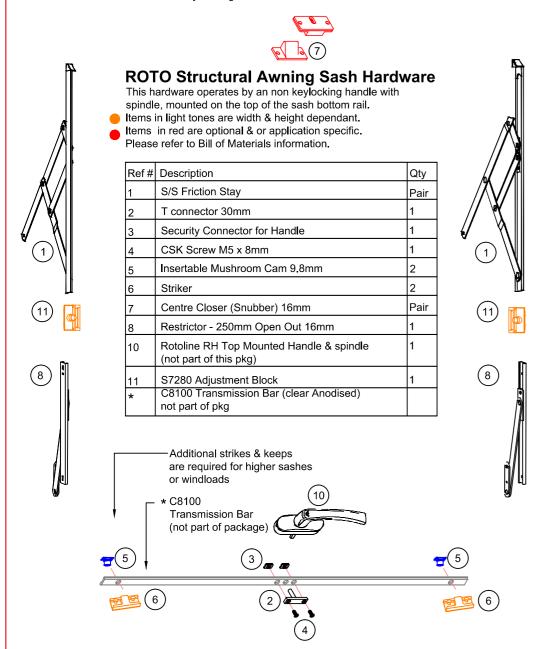
U-Max[™] THERMAL BREAK Multi Locking Sashes U-Max Framing Systems: UMULTILOCK - 8 Multi Locking Top Mounted Awning Hardware ID



Awning Sash hardware in the schematic is shown from Inside. The handle is non-key locking as standard but can be supplied keyed. The handle is fitted centrally off the back of the sash bottom rail.

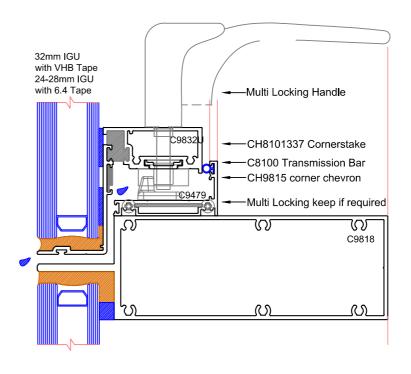
ROTO Top Mounted Awning Sash Hardware

This hardware operates by a non keylocking handle, mounted on the stile of the sash. Key locking is also available.



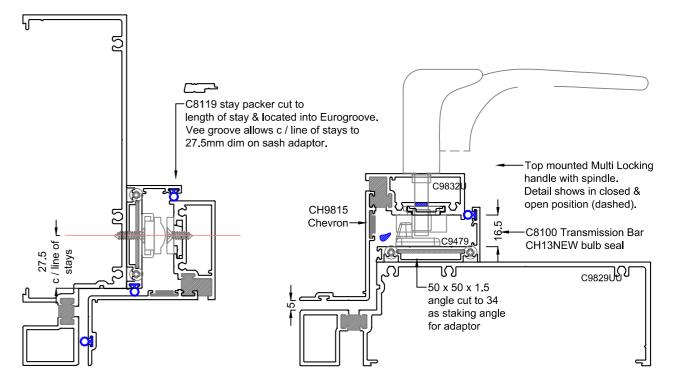
Structural Sashes

The detail below is applicable with all structural glazed sashes using "top loaded handles".



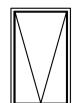
C9478 & C9832U Structural Sashes

Stays are supported by a packer located into the sash and through fixed into vee groove on the packer to allow a location point.





U-Max[™] THERMAL BREAK Multi Locking Sashes U-Max Framing Systems: UMULTILOCK - 9 **Structural Sash Hardware Packages**



Hardware is variable dependant on Sash Height,

Width, Weight & handle finish. Select: Kit + handle for a complete bill of materials

CHTHC1	Project Out Sash Rebate Height 300 - 500mm up to 40kg	
Ref#	Description	Qty
1	203mm SS Friction Stay	Pair
2	Top Hung Centre Gear	1
3	Insertable Mushroom Cam 9.8mm	2
4	Strike for 767006	2
5	Centre Closers (Snubber) 16mm	1

CHTHC2	Project Out Sash Rebate Height 501 - 700mm up to 45kg	
Ref#	Description	Qty
1	305mm SS Friction Stay	Pair
2	Top Hung Centre Gear	1
3	Insertable Mushroom Cam 9.8mm	3
4	Strike for 767006	3
5	Centre Closers (Snubber) 16mm	1

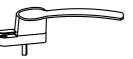
СНТНСЗ	Project Out Sash Rebate Height 701 - 1200mm up to 55kg	
Ref#	Description	Qty
1	406mm SS Friction Stay	Pair
2	Top Hung Centre Gear	1
3	Insertable Mushroom Cam 9.8mm	3
4	Strike for 767006	3
5	Centre Closers (Snubber) 16mm	1

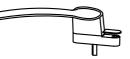
CHTHC4	Project Out Sash Rebate Height 1201 - 1500mm up to 75kg	
Ref#	Description	Qty
1	559mm SS Friction Stay	Pair
2	Top Hung Centre Gear	1
3	Insertable Mushroom Cam 9.8mm	2
4	Strike for 767006	2
5	Centre Closers (Snubber) 16mm	1
8	Restrictor - 250mm 16mm Stack Height	1

Project Out Sash Rebate Height 1201 - 1500mm up to 120kg	
Description	Qty
660mm SS Friction Stay	Pair
Top Hung Centre Gear	1
Insertable Mushroom Cam 9.8mm	3
Strike for 767006	3
Centre Closers (Snubber) 16mm	1
Restrictor - 250mm 16mm Stack Height	1
S7280 Adjustment Block	1
	Rebate Height 1201 - 1500mm up to 120kg Description 660mm SS Friction Stay Top Hung Centre Gear Insertable Mushroom Cam 9.8mm Strike for 767006 Centre Closers (Snubber) 16mm Restrictor - 250mm 16mm Stack Height

Project Out Sash Rebate Height 1201 - 2500mm up to 180kg	
Description	Qty
660mm SS HD Friction Stay	Pair
Top Hung Centre Gear	1
Insertable Mushroom Cam 9.8mm	3
Strike for 767006	3
Centre Closers (Snubber) 16mm	1
Restrictor - 250mm 16mm Stack Height	1
S7280 Adjustment Block	1
	Rebate Height 1201 - 2500mm up to 180kg Description 660mm SS HD Friction Stay Top Hung Centre Gear Insertable Mushroom Cam 9.8mm Strike for 767006 Centre Closers (Snubber) 16mm Restrictor - 250mm 16mm Stack Height

CH9840 Top Mounted Handle & Cover			
Ref#	Code	Finish	
6 & 7	CH9840SVR	Silver Powdercoat	
6 & 7	CH9840WHT	White Powdercoat	
6 & 7	CH9840BLK	Black Powdercoat	
6 & 7 CH9840BLK Black Powdercoa			



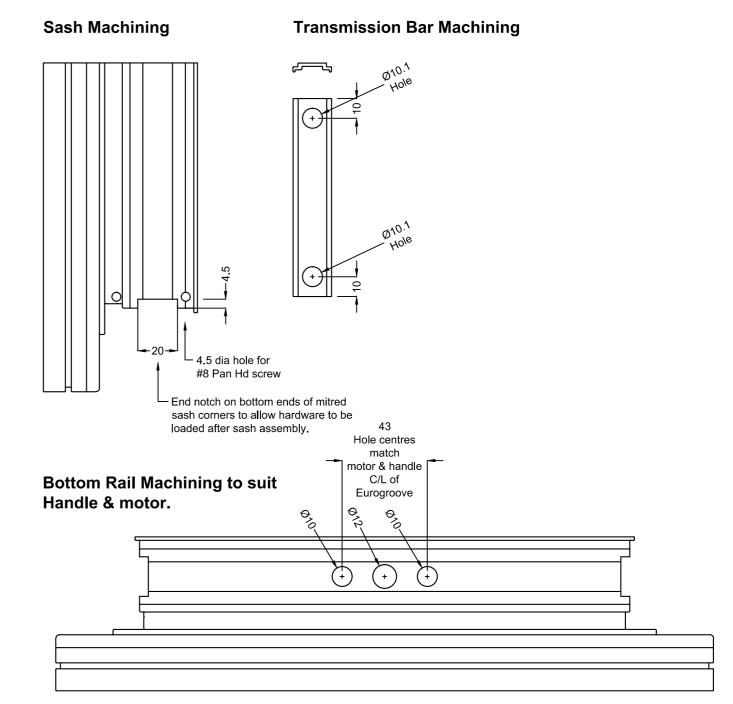


CH9840 RH Handle Package (Standard Hand for awnings) Top Mounted Project Out Handle & Cover with spindle

CH9840 LH Handle Package Top Mounted Project Out Handle & Cover with spindle

Example for Ordering

1800 x 1200 Sash, 50kg CHTHC6 Kit + CH9840SVR handle



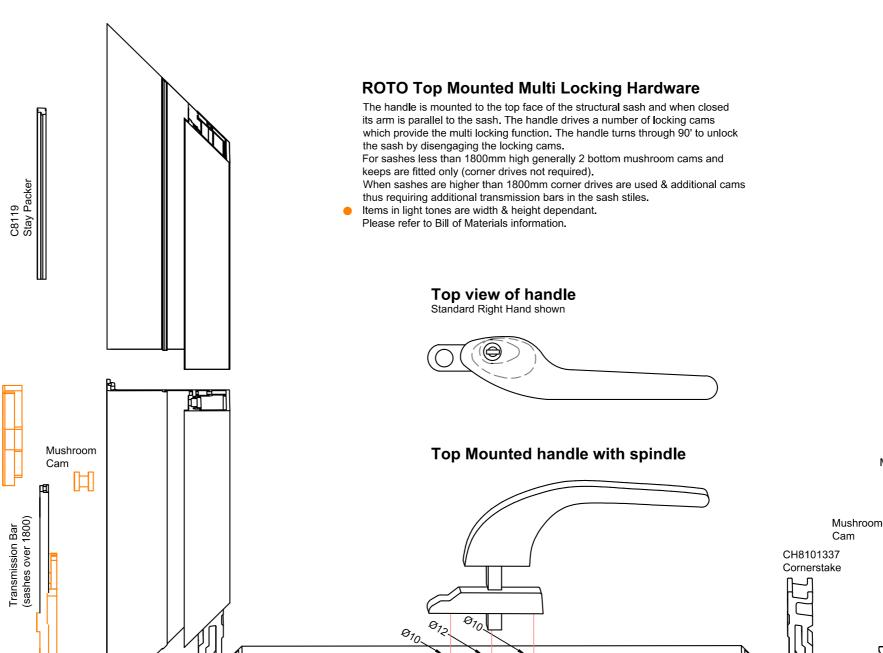
CH9844

Multi Lock keep



U-Max[™] THERMAL BREAK Multi Locking Sashes U-Max Framing Systems: UMULTILOCK - 10 Hardware Assembly Procedure

- 1. Machine sash & transmission bars in readiness for assembly
- 2. Shorten Square spindle to correct length
- Mark C/L for handle & drill from Eurogroove side for handle assembly
- 4. Engage chevrons & cornerstake in bottom rail
- 5. Insert cornerdrive into sash stiles
- If the cornerdrive connects to transmission bars insert cam & transmission bar with cam
- 7. Feed gearbox with assembled transmission bars onto sash rail
- 8. Bring sash corners together and engage corner drive with transmission bars and check they work correctly
- 9. Fit handle to gearbox
- 10. Assemble sash corners and screw assemble
- 11. When sash stile assembled, lock off corner drive with horseshoe corner key
- 12. Glue in chevron if required
- 13. Irrespective of sash assembly screws at corners ensure an additional screw fixing is fitted to secure sash through sash stile into corner stake.



Multi Lock keep

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