



## **FUTURE ALU. TILT AND TURN W-70**

COST EFFICIENT, DURABLE, COMFORTABLE, AESTHETIC, AND LIGHTWEIGHT.



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# FUTURE ALUMINUM INDUSTRIES L.L.C

**FUTURE** Aluminum industry is a well renowned company that has been in the market for 20 years, providing exceptional products, advanced manufacturing equipment, state of the art quality procedures and satisfaction driven service. **FUTURE** Aluminum industries specialize in extruded Aluminum profiles from the simplest to the most complex, to be utilized in a variety of applications, From Structural components to decorative and architectural elements. **FUTURE** Aluminum industries extrusion plant is capable of producing Aluminum Extrusion 24,000 tons/ year Powder Coating 10,000 tons/ year.

The prime objective of **FUTURE** Aluminum industries is to guarantee the best quality and logistics of supply, our company has established a very high standard quality check system in guaranteeing that all extruded profiles are of the highest caliber. **FUTURE** Aluminum industries use only the most modern, computerized, state of the art Italian machinery for producing the best quality Aluminum profiles. **FUTURE** sophisticated extrusion, Water quenching and powder coating machinery, guarantees that every profile From **FUTURE**, regardless of the complexity is of the highest standard and caliber.





# FUTURE ALU. SYSTEMS

## **FUTURE ALU. CURTAIN WALL CW-36**

- **Glass Sizes:** 6-32 mm
- This is a new future slim line profile for a more delicate aesthetic.
- The profile is specifically designed to incorporate thermal comfort, and is Best in hot and cold weather.
- Available in horizontal and vertical capping.

## **FUTURE ALU. CURTAIN WALL CW-50**

- **Glass Sizes:** 22-50 mm
- CW-50 is a medium profile that creates a thick and semi-heavier aesthetic.
- The profile is specifically designed to incorporate thermal comfort, and is best in hot and cold weather.
- Available in horizontal and vertical 50mm capping.

## **FUTURE ALU. CURTAIN WALL CW-60**

- **Glass Sizes:** 22-44 mm
- CW-60 is a thick profile that creates a heavier aesthetic.
- The profile is specifically designed to incorporate thermal comfort, and is best in hot and cold weather.
- Available in horizontal and vertical 60mm capping.

## **FUTURE ALU. HINGED DOOR D-70**

- **Glass Sizes:** 22-42 mm
- D-70 is a framed hinged door system with 70 mm frame and profile thickness.
- D70 can be singular leaf or double leaf.
- The door may be used for interior and exterior with several variations of thresholds options.

## **FUTURE ALU. LIFT AND SLIDE S-160**

- **Glass Sizes:** 24-42mm
- Maximum door height can go up to 2600 mm.
- Thermally broken sliding door system with 70 mm sash depth and 160mm frame.
- Two types of lift and slide are available, one-side sliding door, and double sliding door.

## **FUTURE ALU. SLIDING DOOR S-117**

- **Glass Sizes:** 20-32mm
- Maximum door height can go up to 2400 mm.
- Thermally broken sliding door system with 80 mm sash depth and 117mm frame.
- Two types of lift and slide are available, one-side sliding door, and double sliding door.

## **FUTURE ALU. TILT AND TURN W-70**

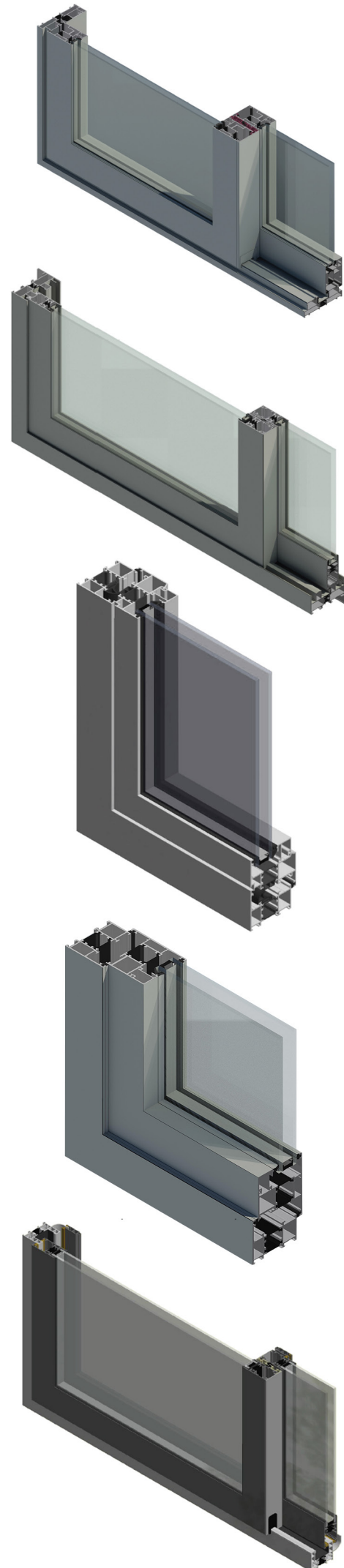
- **Glass Sizes:** 24-42 mm
- TILT AND TURN, an aluminium framed window system that opens the window from the top handle.
- Hinges are attached on the bottom corners of the profile, allowing the window to open-in
- Hinges on one side may be attached to transform the Tilt and turn into a hinged window.
- Maximum door Window can go up to 2700 mm.

## **FUTURE ALU. TOP HUNG W-70**

- **Glass Sizes:** 24-42 mm
- TOP HUNG, an aluminium framed window system that opens the window from the bottom handle.
- Hinges are attached on the top corners of the profile, allowing the window to open-out
- Maximum door Window can go up to 1300 mm.

## **FUTURE ALU. SLIDING WINDOW W-70**

- **Glass Sizes:** 24-32mm
- Maximum window height can go up to 1500 mm.
- Thermally broken sliding window system with 73mm sash depth and 70mm frame.
- Two types of sliding window are available, one-side sliding door, and double sliding door.





## NEW W70 - TILT AND TURN WINDOW SYSTEM

Thermally broken window system with external weather gasket and internal air seal gasket. A standard 21mm Euro groove is designed to suit a variety of hardware components.

## MATERIALS

Extruded aluminium profiles are of aluminium alloy 6063 T5 or T6 to BS EN 12020 & BS EN 755, tempered to BS EN 515. Gaskets are extruded from E.P.D.M to BS 4255-1 and P.V.C. to BS7412

## FINISHES

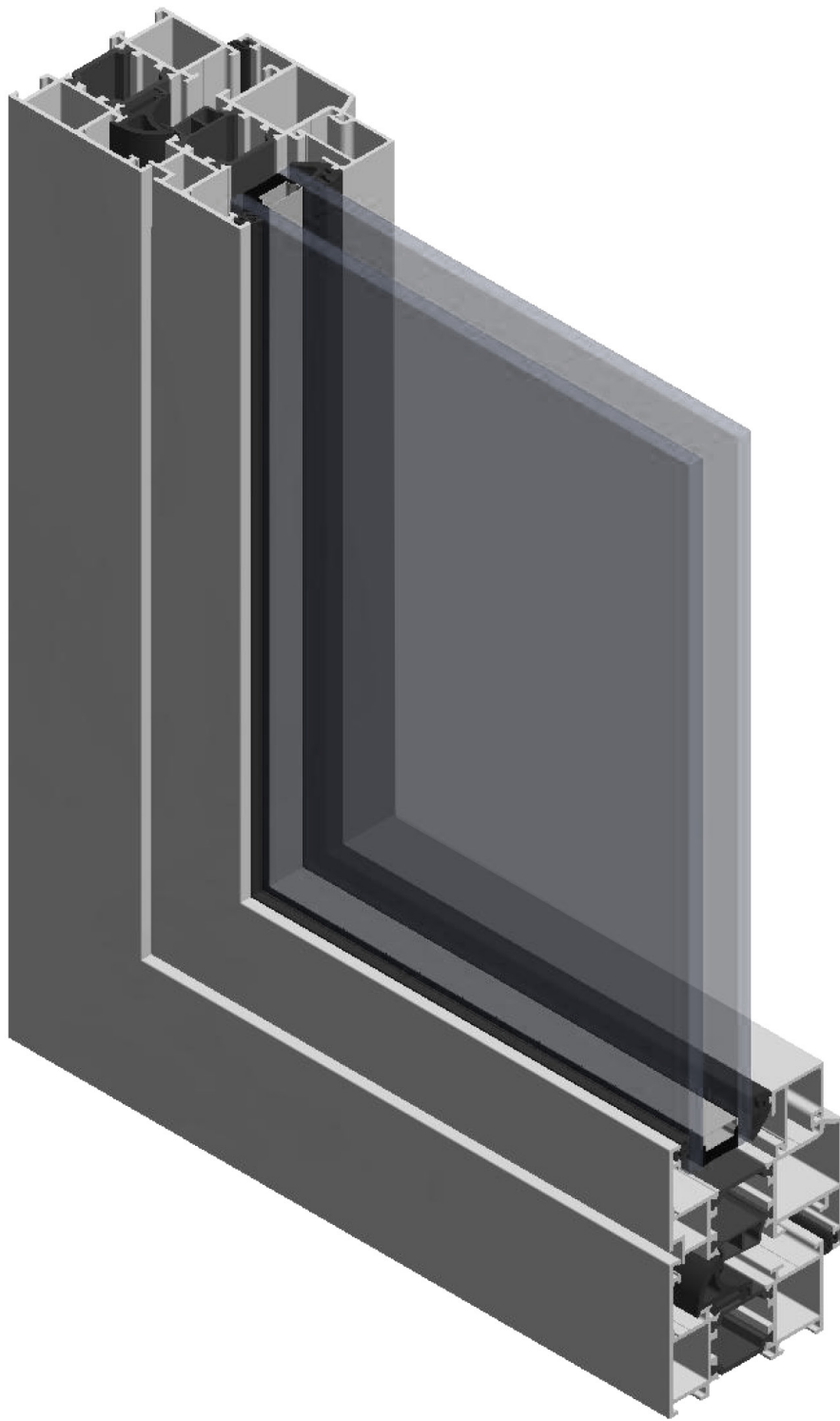
Aluminium profiles are finished to the following specifications: Silver, bronze and black anodising to BS EN 12373 or BS 3987. Liquid organic coating to BS 4842. Polyester powder coating to BS 6496.

## CONSTRUCTION

Frames are constructed with mitre joints with an inserted cleat which is either crimped or tightened with an eccentric cam. Multi light transoms and mullions are secured with No.8 screws into integral ports, or with cleats.

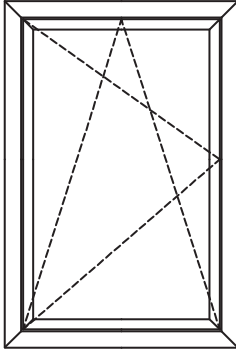
## GLAZING

Glazing beads and gaskets allow for an exceptional range of glazing thickness' from 24mm to 42mm thick.

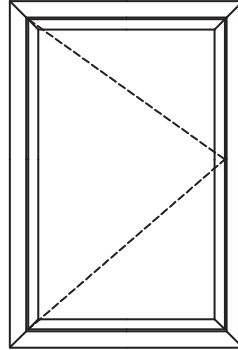


NEW FUTURE ALU. W-70 TILT AND TURN SYSTEM

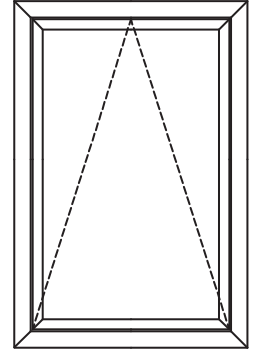
# WINDOW TYPES



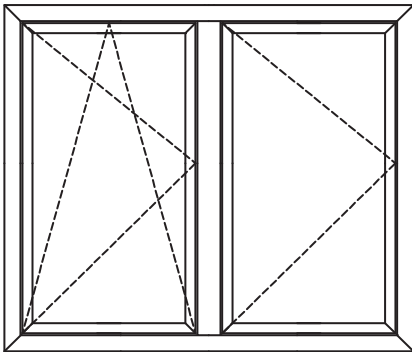
SINGLE SHUTTER  
TILT & TURN WINDOW  
(OPEN INWARD)



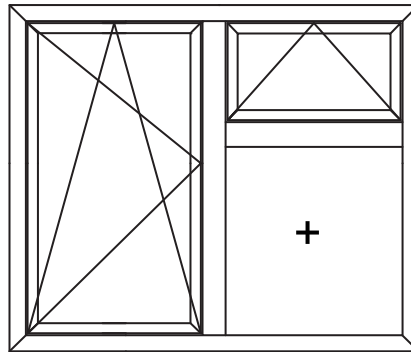
SINGLE SHUTTER  
SIDE HUNG WINDOW  
(OPEN INWARD)



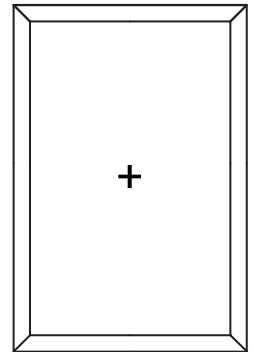
SINGLE SHUTTER  
BOTTOM HUNG WINDOW  
(OPEN INWARD)



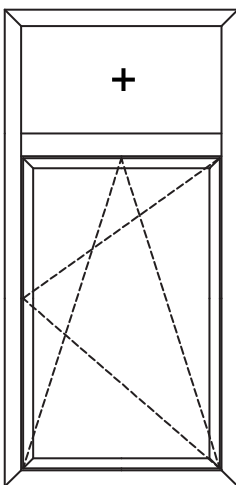
SINGLE SHUTTER'S  
TILT & TURN AND SIDE HUNG WITH CENTRAL MULLION  
(OPEN INWARD)



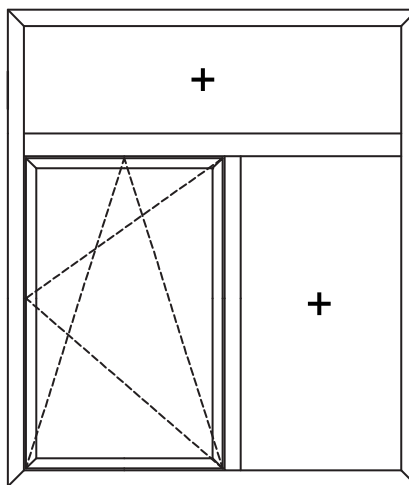
SINGLE SHUTTER'S  
TILT & TURN AND SIDE HUNG WITH SIDE FIXED PANEL  
(OPEN INWARD)



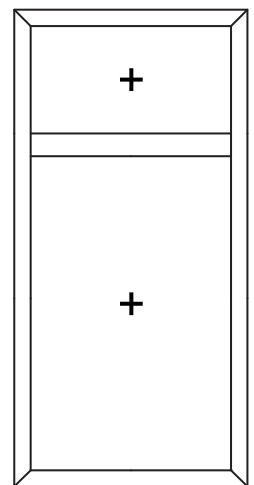
FIXED WINDOW  
(ONE PANEL)



SINGLE SHUTTER  
TILT & TURN WITH TOP FIXED PANEL  
(OPEN INWARD)



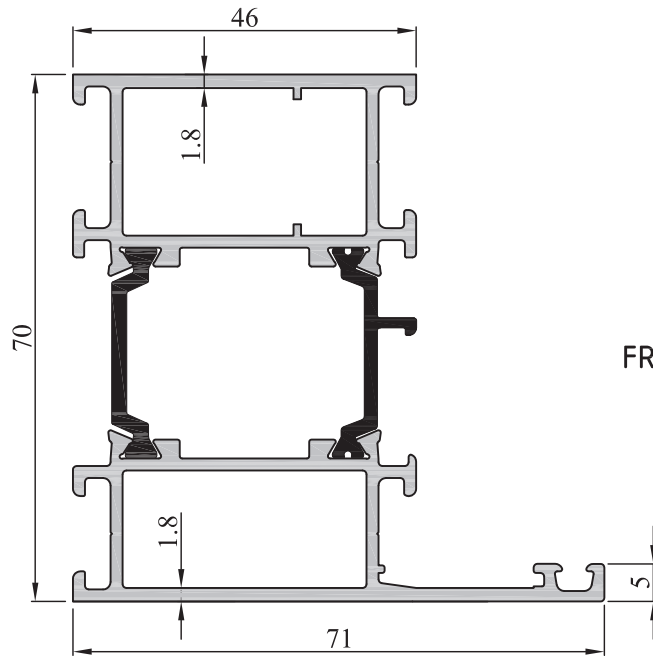
SINGLE SHUTTER  
TILT & TURN WITH TOP & SIDE FIXED PANEL  
(OPEN INWARD)



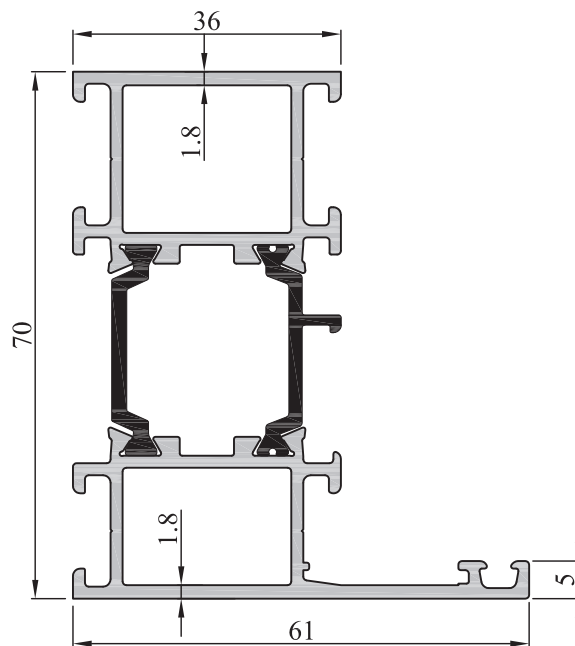
FIXED WINDOW  
(TWO PANEL)



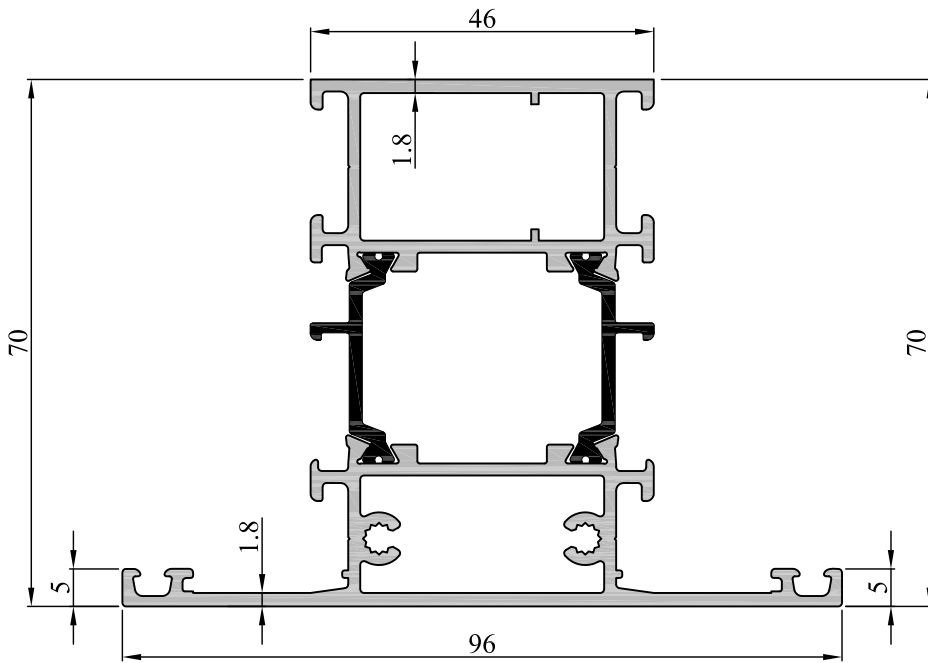
# PROFILES



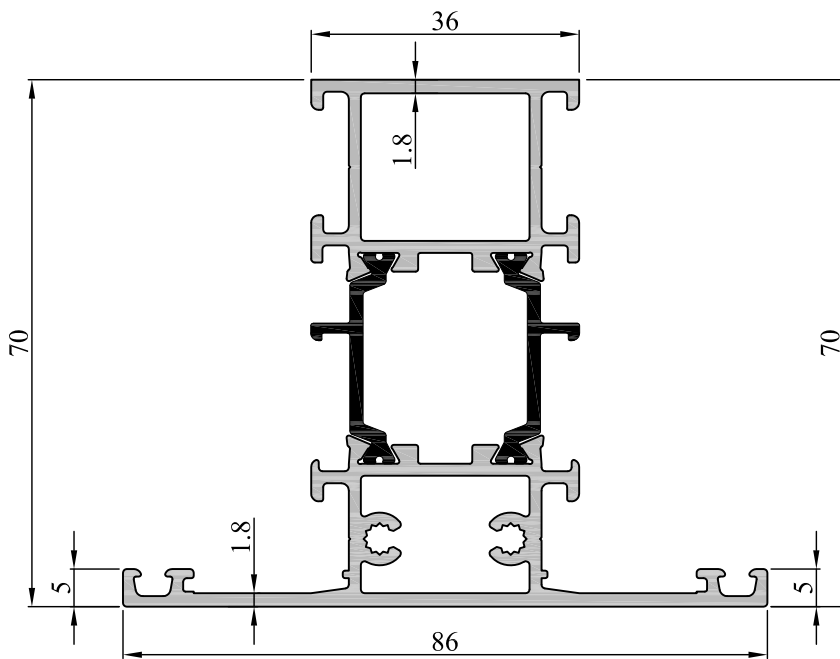
**7005**  
FRAME PROFILE



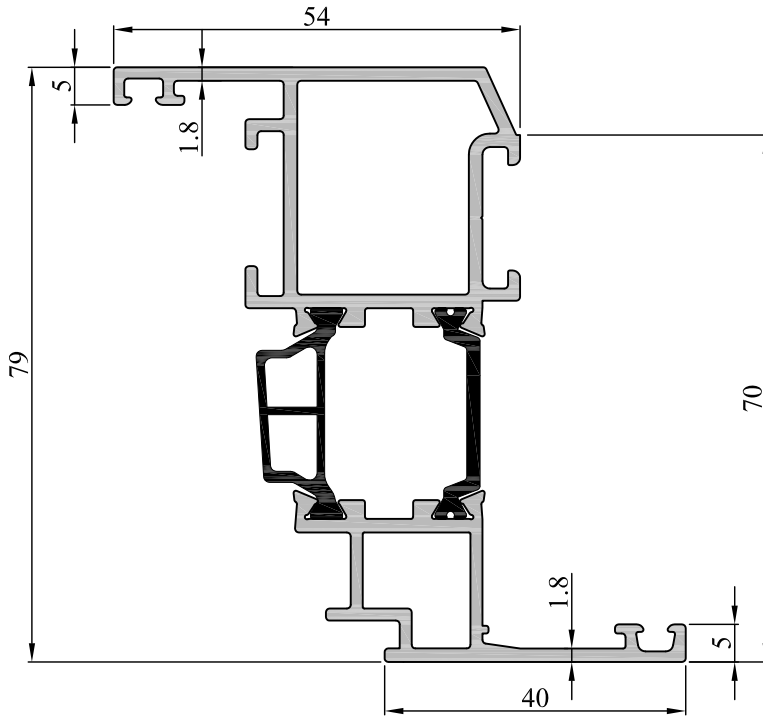
**7006**  
FRAME PROFILE



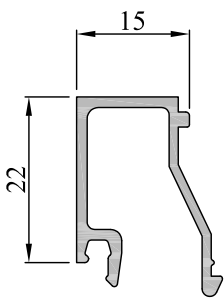
**70007**  
FRAME 'T' PROFILE



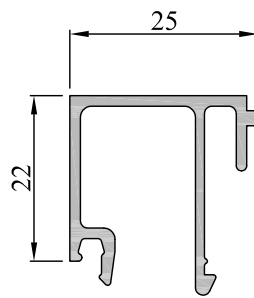
**70008**  
FRAME 'T' PROFILE



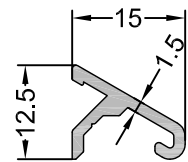
**70017**  
SASH PROFILE



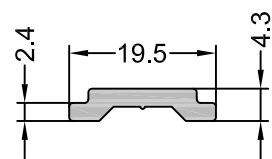
**70041**  
BEAD PROFILE



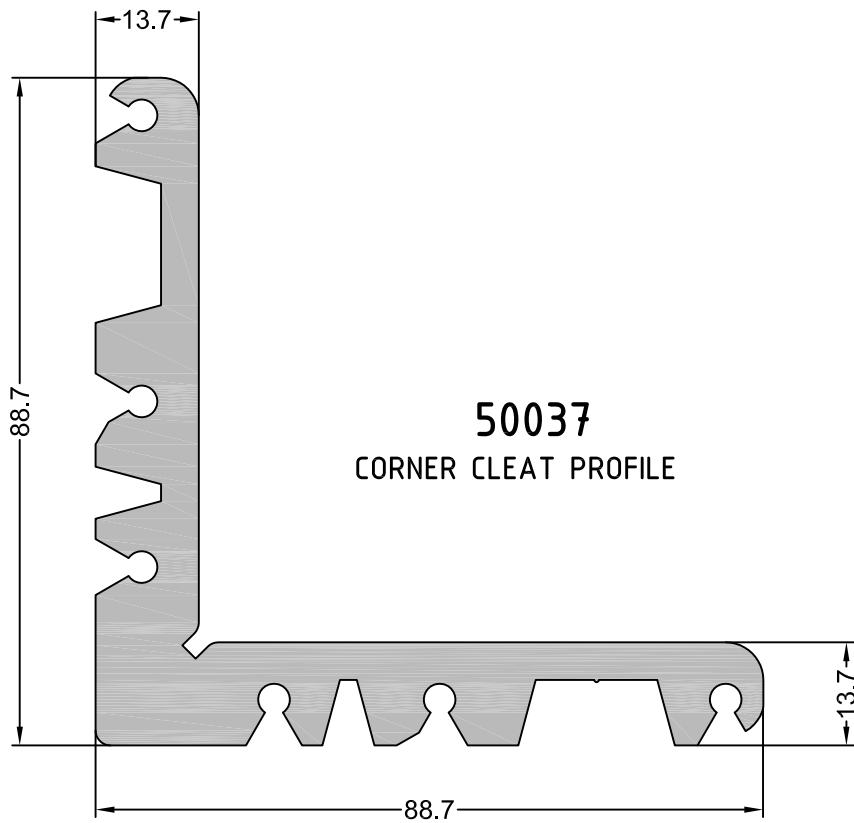
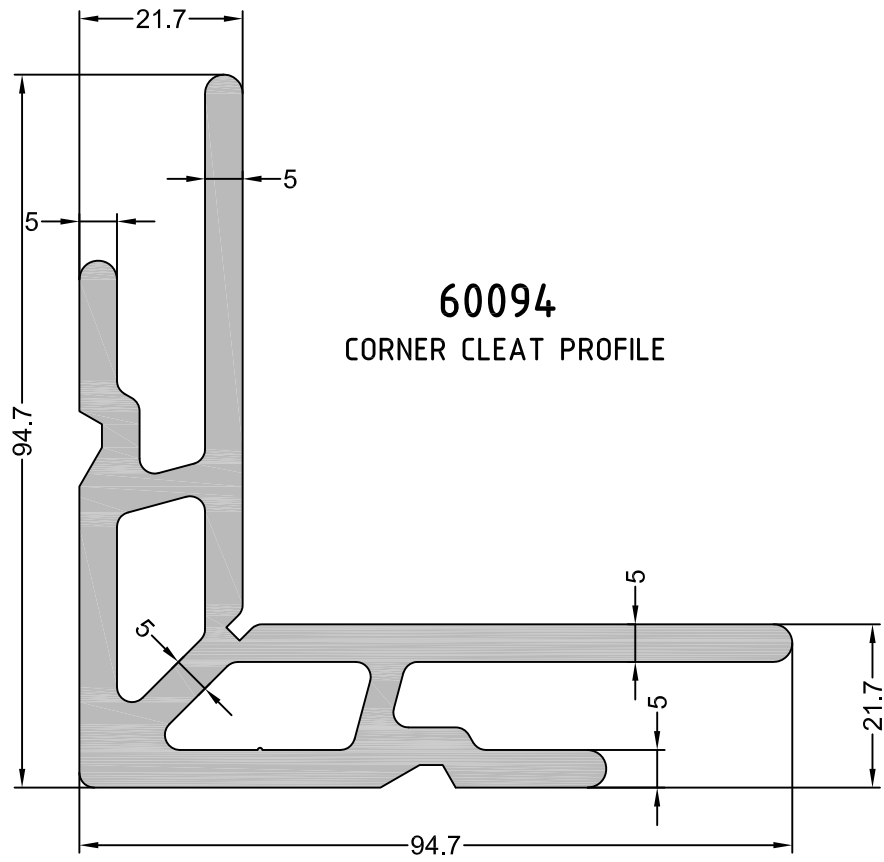
**70043**  
BEAD PROFILE



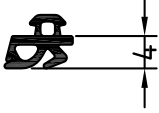

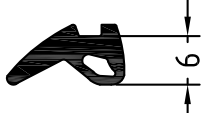



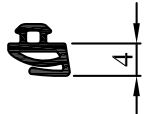
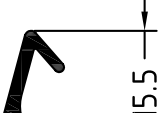
**70039**  
DRIP PROFILE



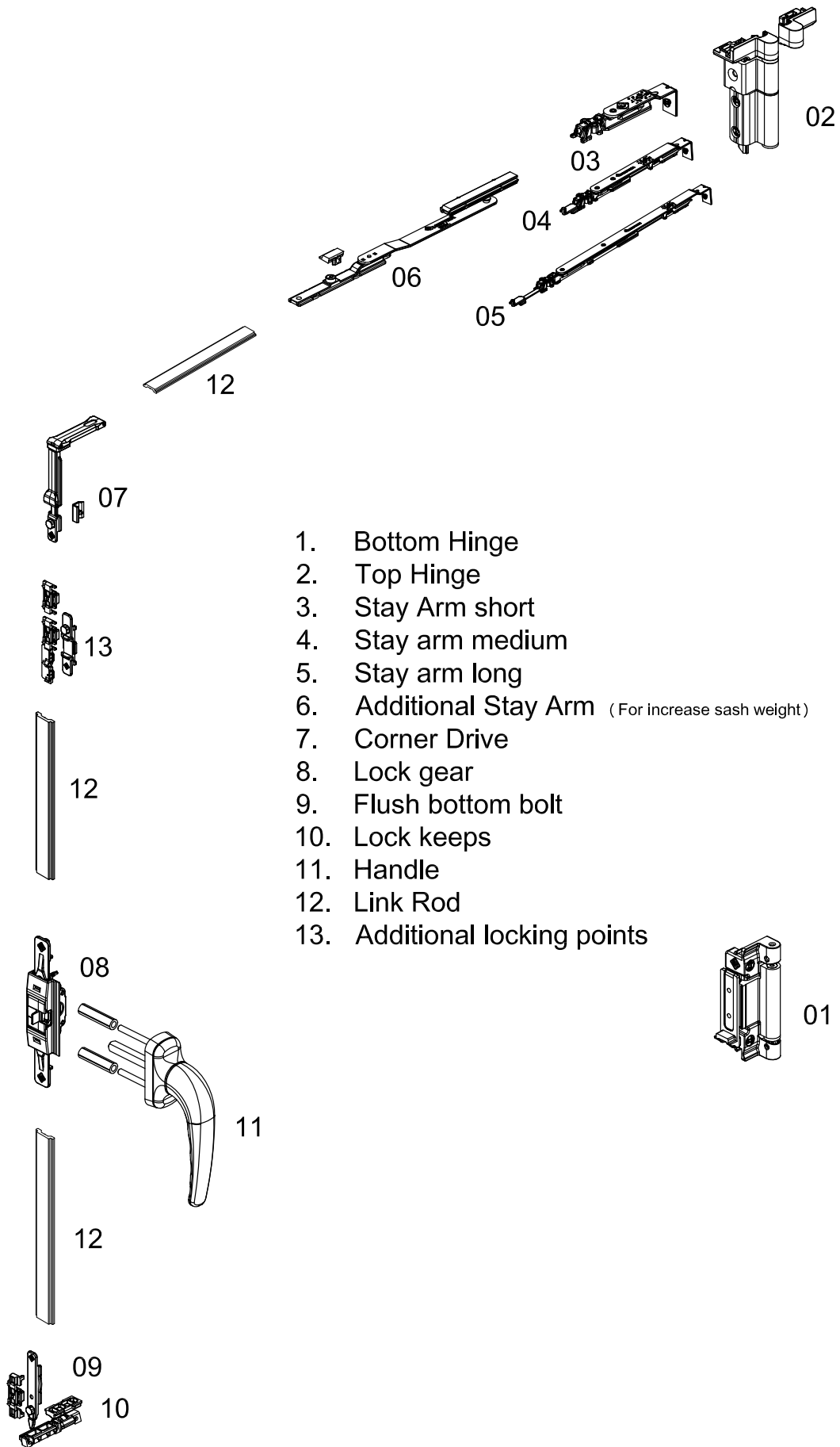
**70046**  
LOCK PROFILE



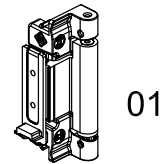
## ACCESSORIES

	GK001	4mm THICK OUTER CAPTIVE GASKET
	GK002	4mm THICK INNER WEDGE GASKET
	GK003	6mm THICK INNER WEDGE GASKET
	GK004	8mm THICK INNER WEDGE GASKET
	GK005	10mm THICK INNER WEDGE GASKET
	GK006	12mm THICK INNER WEDGE GASKET
	GK007	4mm THICK WEATHER GASKET
	GK008	CENTRAL GASKET

# IRONMONGERY



1. Bottom Hinge
2. Top Hinge
3. Stay Arm short
4. Stay arm medium
5. Stay arm long
6. Additional Stay Arm (For increase sash weight)
7. Corner Drive
8. Lock gear
9. Flush bottom bolt
10. Lock keeps
11. Handle
12. Link Rod
13. Additional locking points



01

02

03

04

05

06

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07

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08

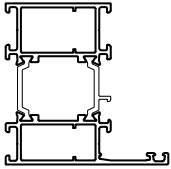
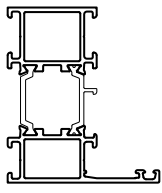
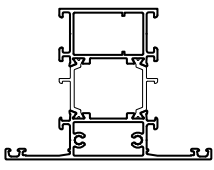
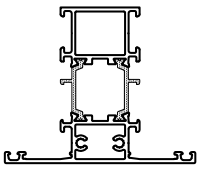
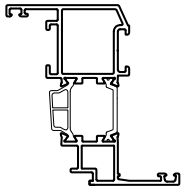
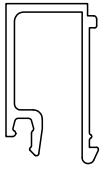
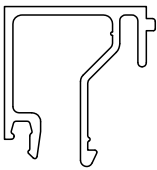
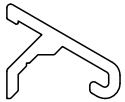
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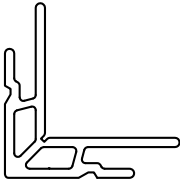
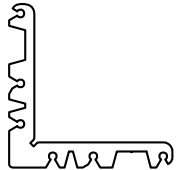
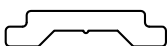
12

09

10

# PROFILE DATA

Profile Reference	Profile Section	Weight Kg/m	$I_x$ cm <sup>4</sup>	$I_y$ cm <sup>4</sup>	$W_x$ cm <sup>3</sup>	$W_y$ cm <sup>3</sup>
70005	 frame profile	1.714	38.52	19.752	10.02	4.45
70006	 frame profile	1.514	33.18	11.53	8.56	2.92
70007	 frame profile	1.962	44.59	29.20	10.64	6.10
70008	 frame profile	1.766	39.10	18.47	9.16	4.31
70017	 shutter profile	1.639	45.86	13.99	11.23	3.62
70041	 15mm bead profile	0.390	-	-	-	-
70043	 25mm bead profile	0.348	-	-	-	-
70021	 drip profile	0.138	-	-	-	-

Profile Reference	Profile Section	Weight Kg/m	$I_x$ cm <sup>4</sup>	$I_y$ cm <sup>4</sup>	$W_x$ cm <sup>3</sup>	$W_y$ cm <sup>3</sup>
60094	 cleat profile	4.424	-	-	-	-
50037	 cleat profile	4.319	-	-	-	-
70046	 Lock profile	0.150	-	-	-	-





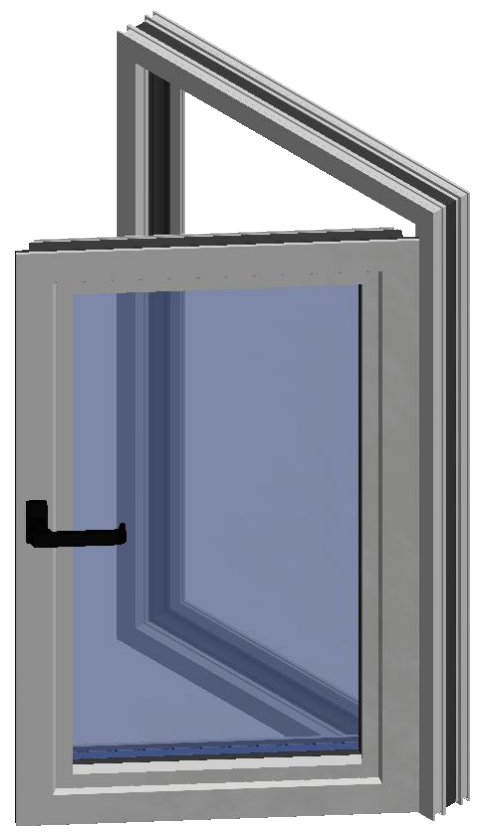
**TILT&TURN WINDOW**  
OUTSIDE VIEW TILT POSITION



**TILT&TURN WINDOW**  
INSIDE VIEW TILT POSITION

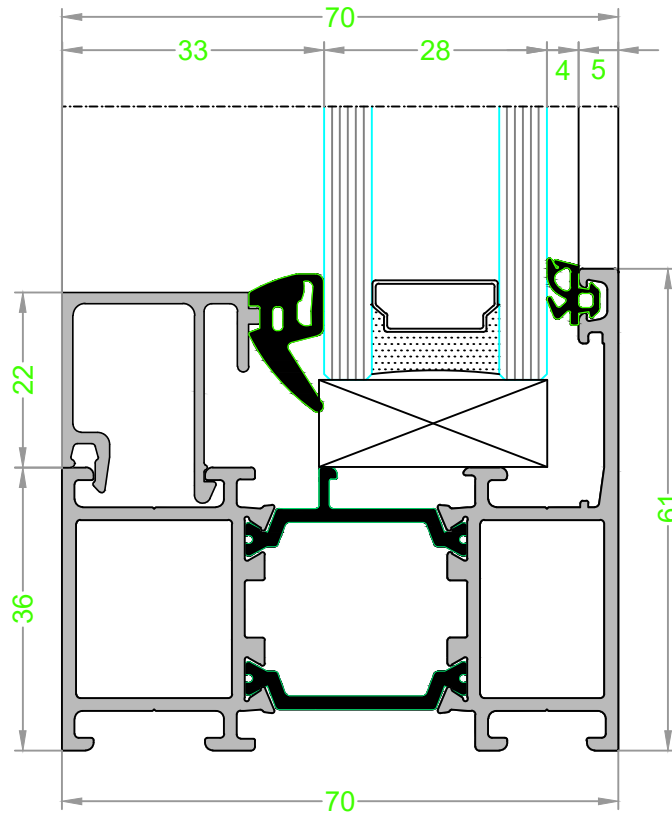
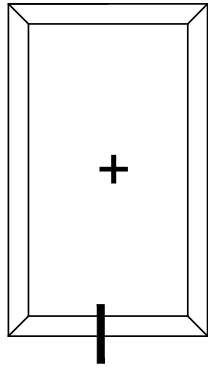


**TILT&TURN WINDOW**  
OUTSIDE VIEW TURN POSITION

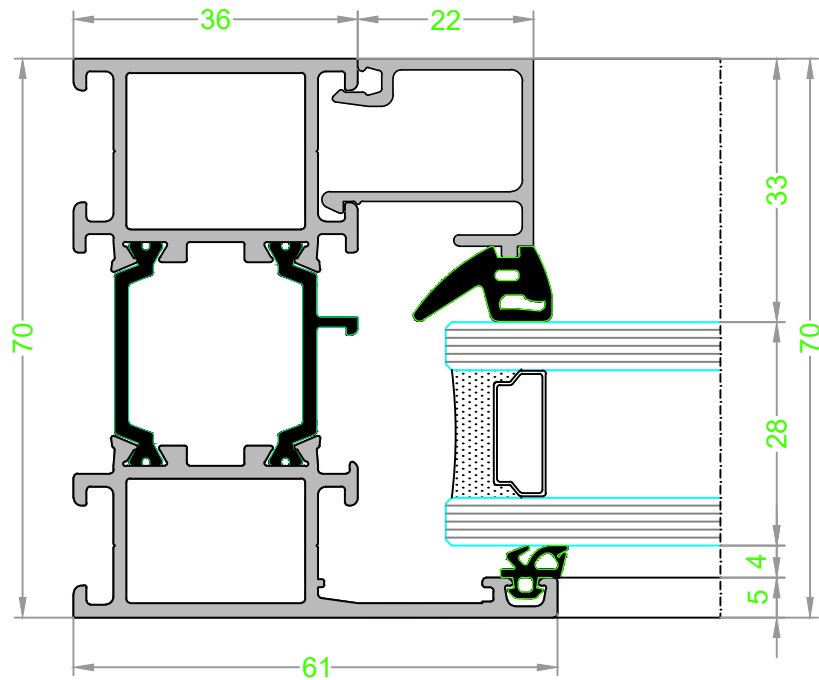
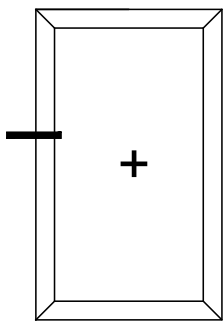


**TILT&TURN WINDOW**  
INSIDE VIEW TURN POSITION

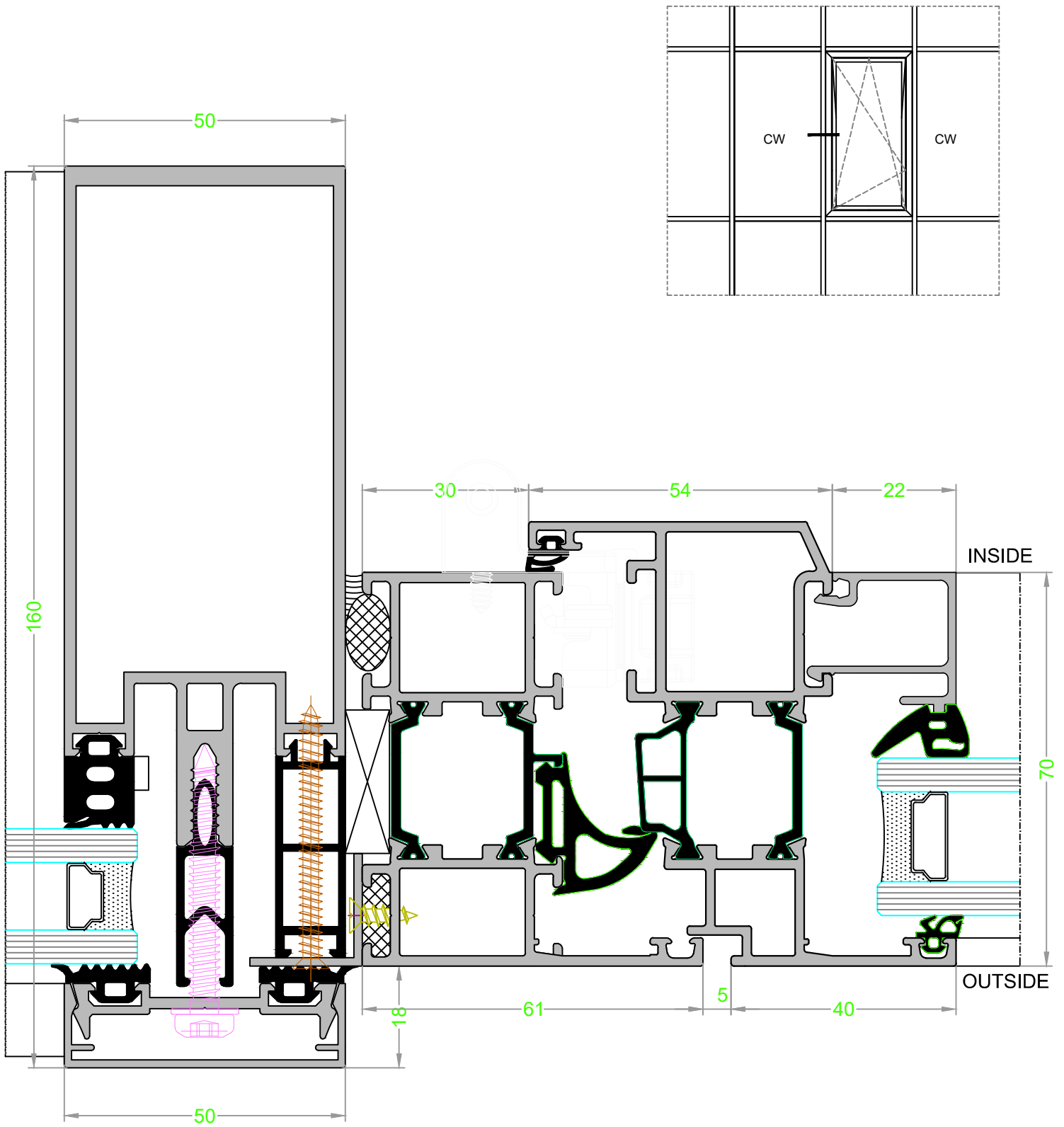




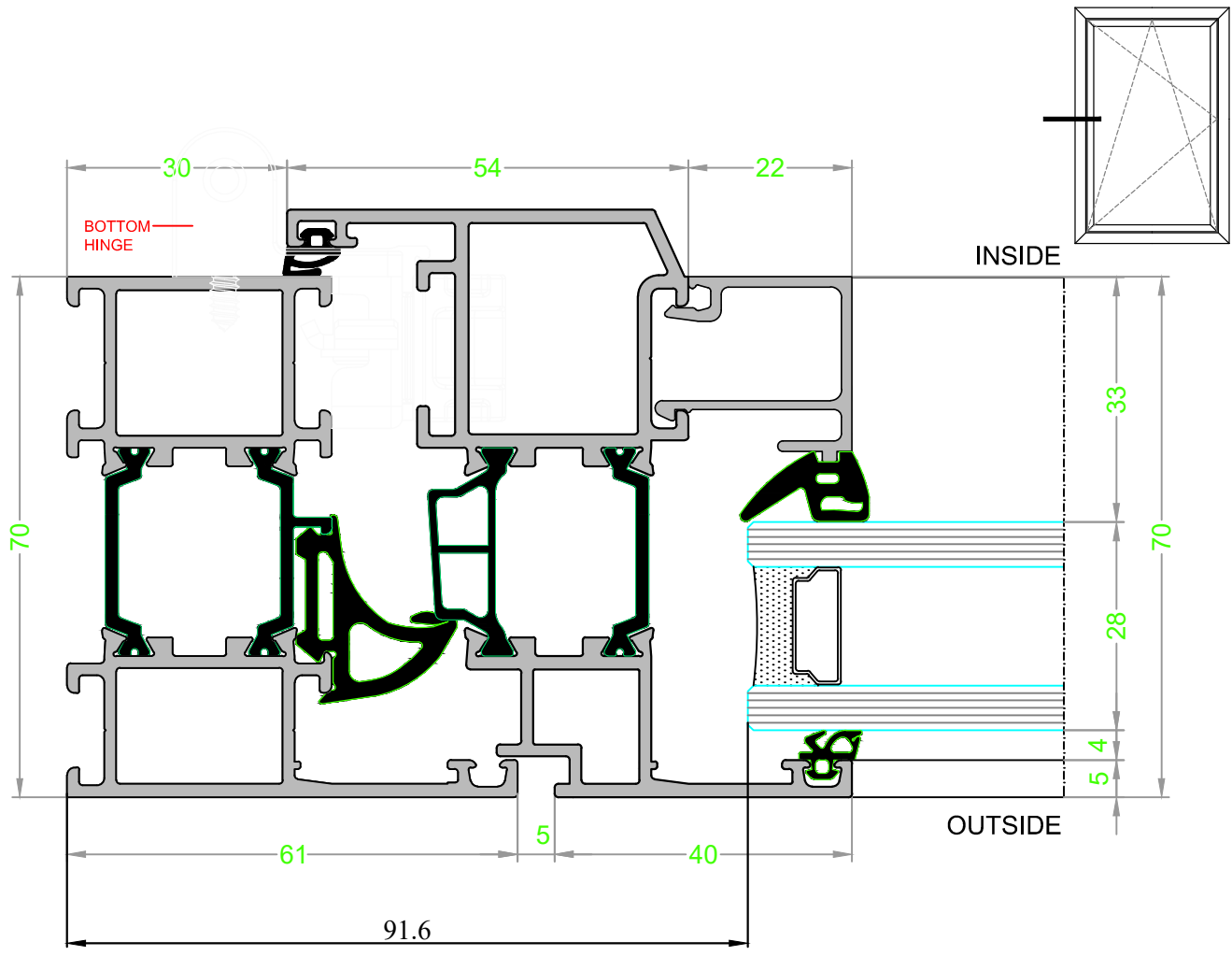
WINDOW SILL FIXED LIGHT  
SECTION DETAIL



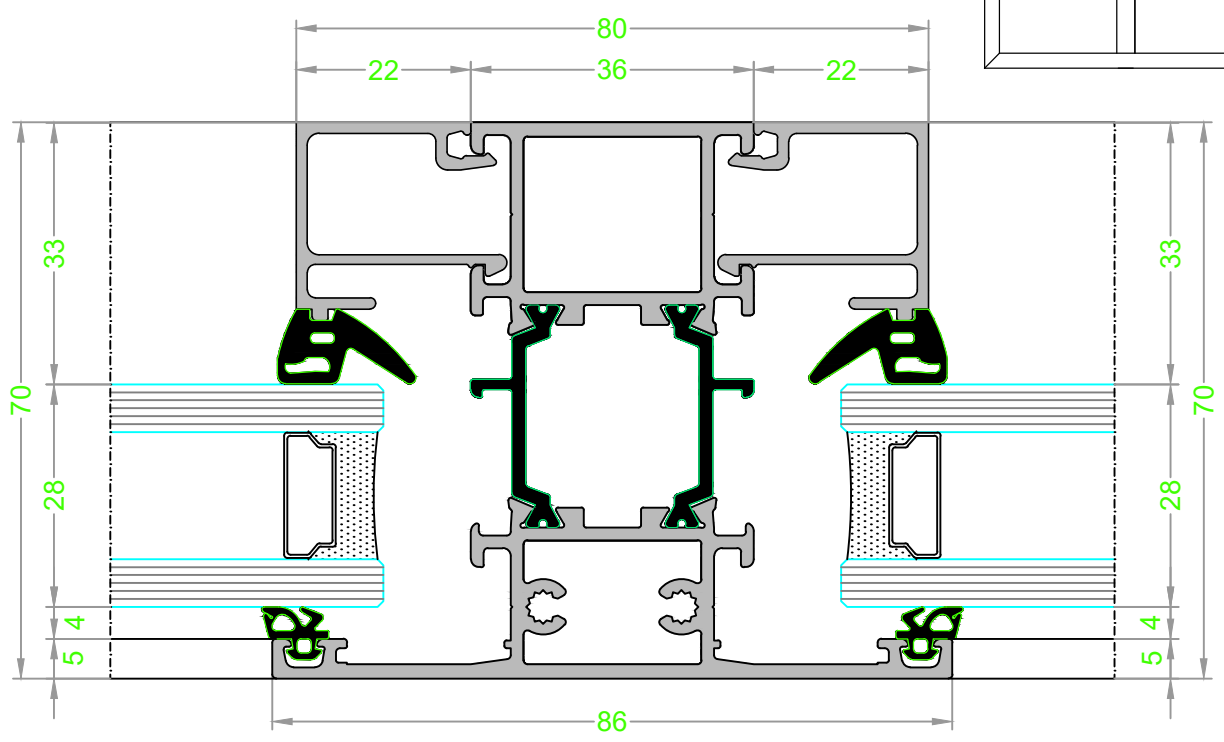
WINDOW JAMB FIXED LIGHT  
SECTION DETAIL



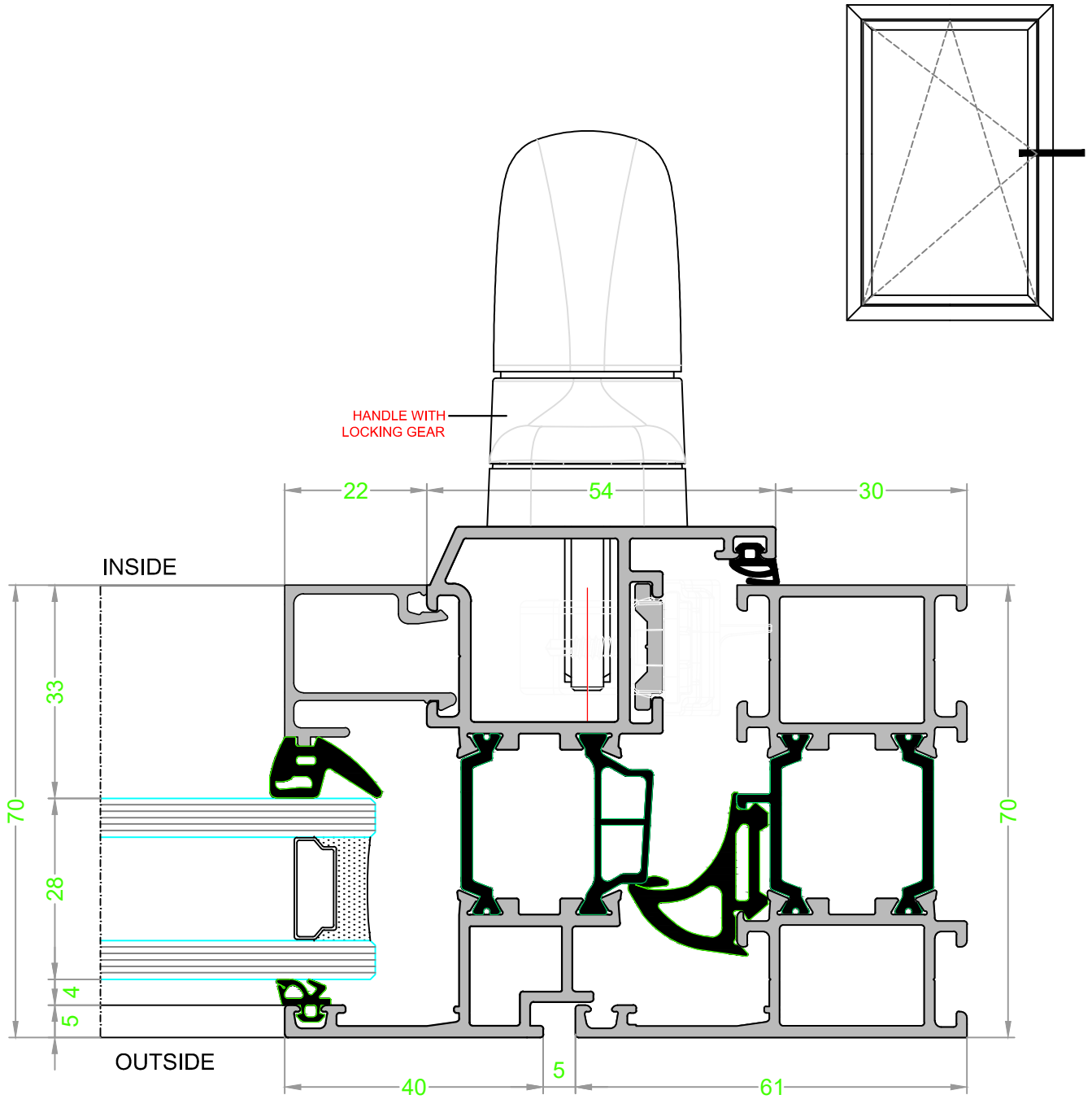
CURTAIN WALL MULLION & WINDOW ATTACHMENT  
SECTION DETAIL



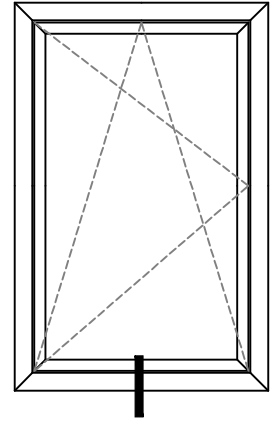
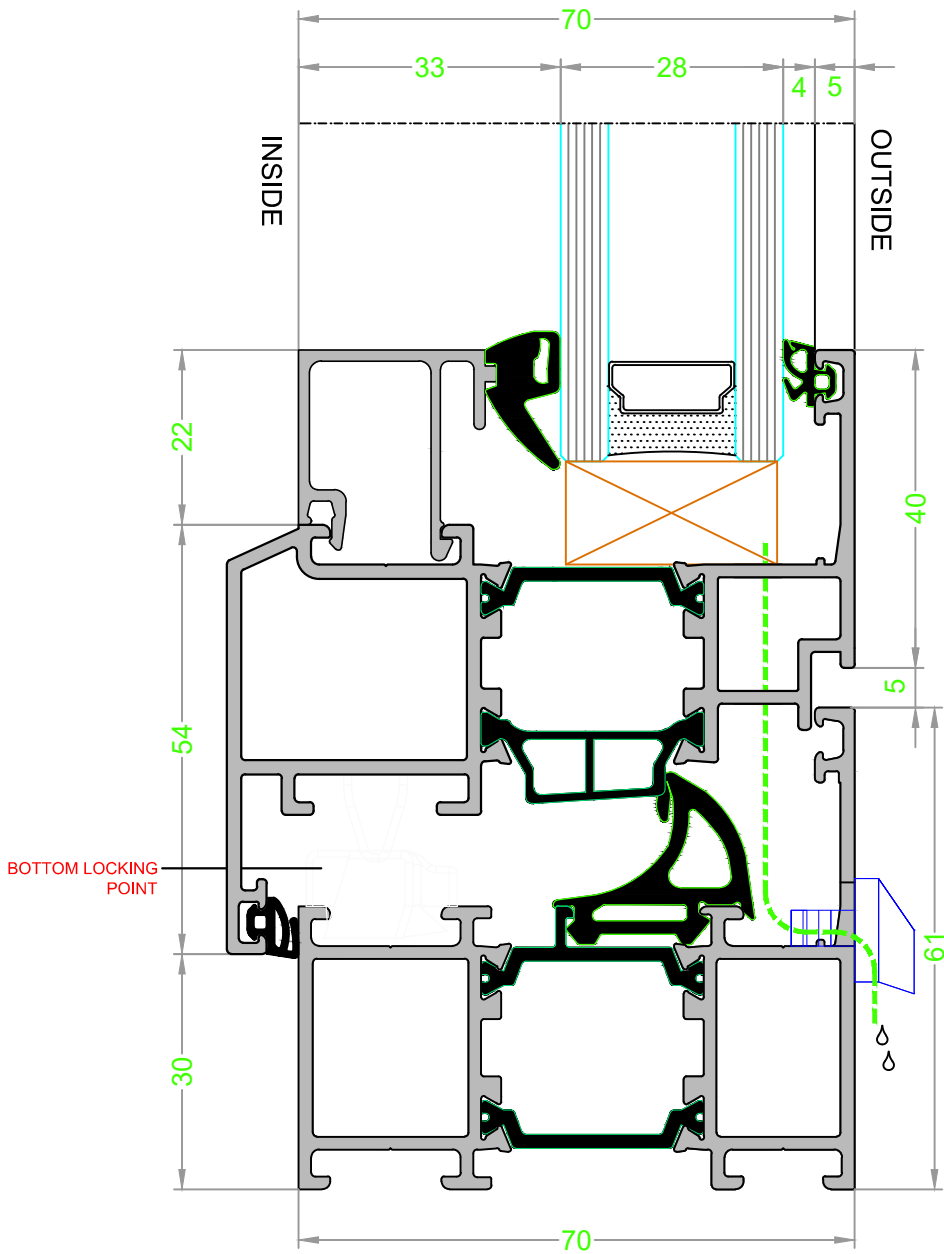
WINDOW JAMB SECTION DETAIL  
HINGE SIDE (OPEN IN)



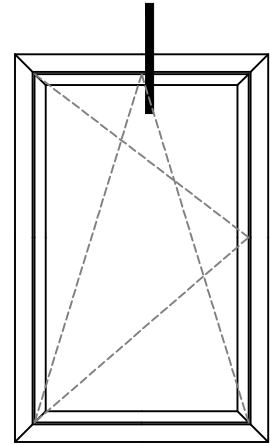
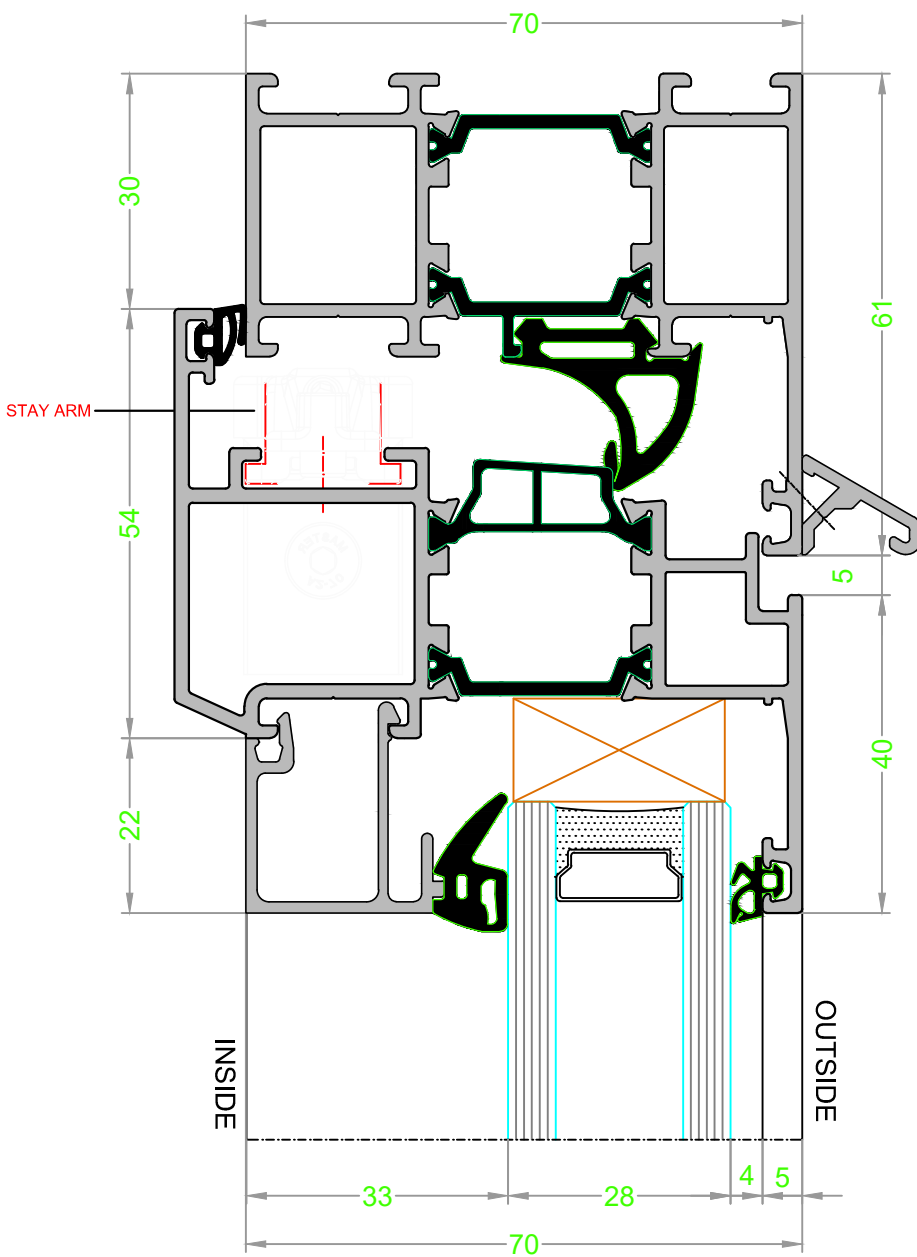
WINDOW FIXED LIGHT CENTRAL  
MULLION SECTION DETAIL



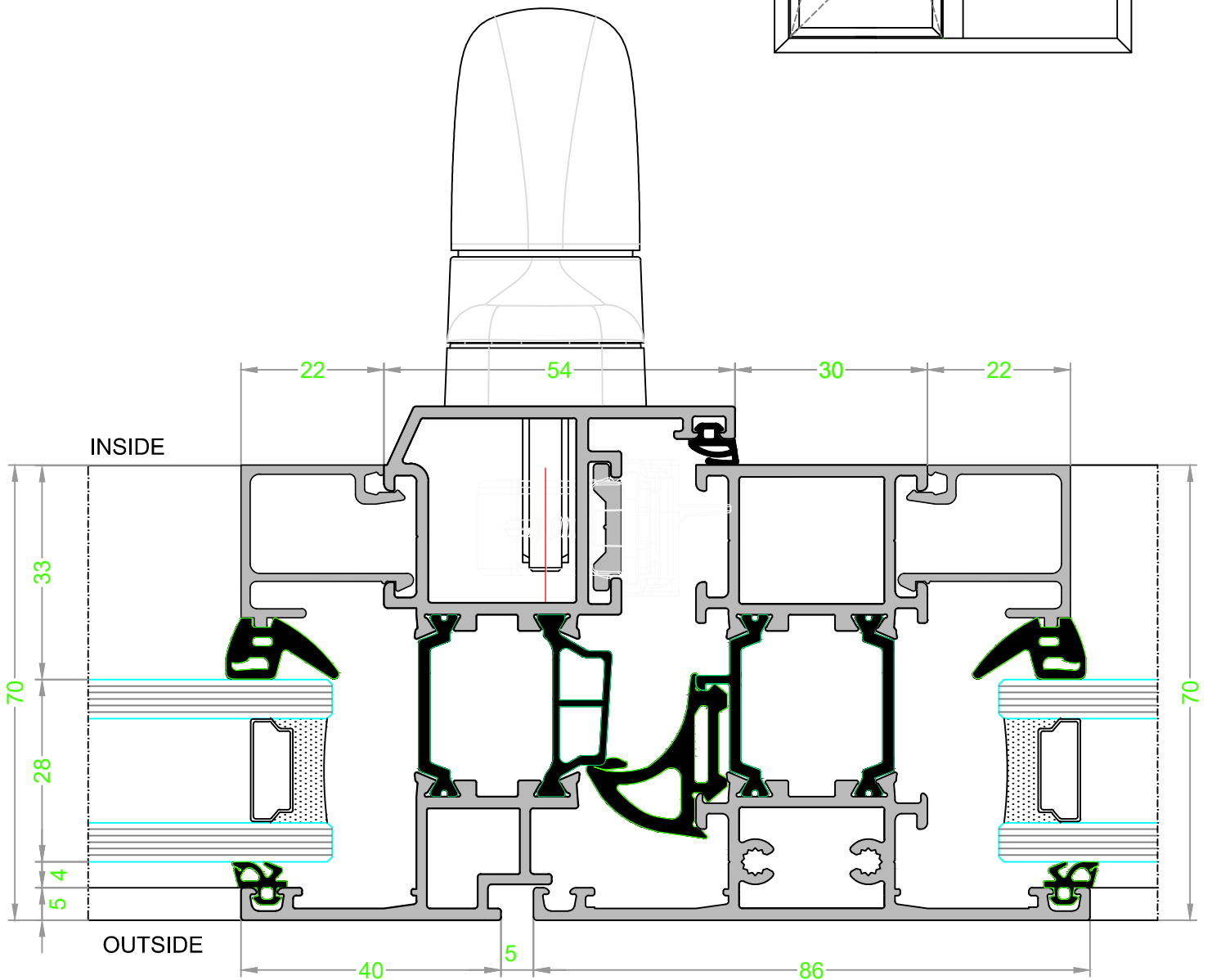
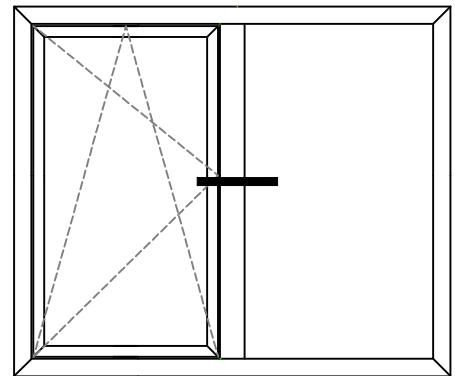
WINDOW JAMB SECTION DETAIL  
HANDLE SIDE (OPEN IN)



WINDOW SILL SECTION DETAIL  
(OPEN IN)

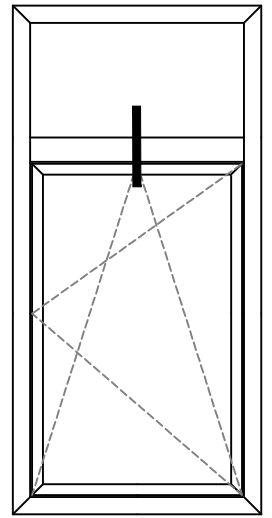
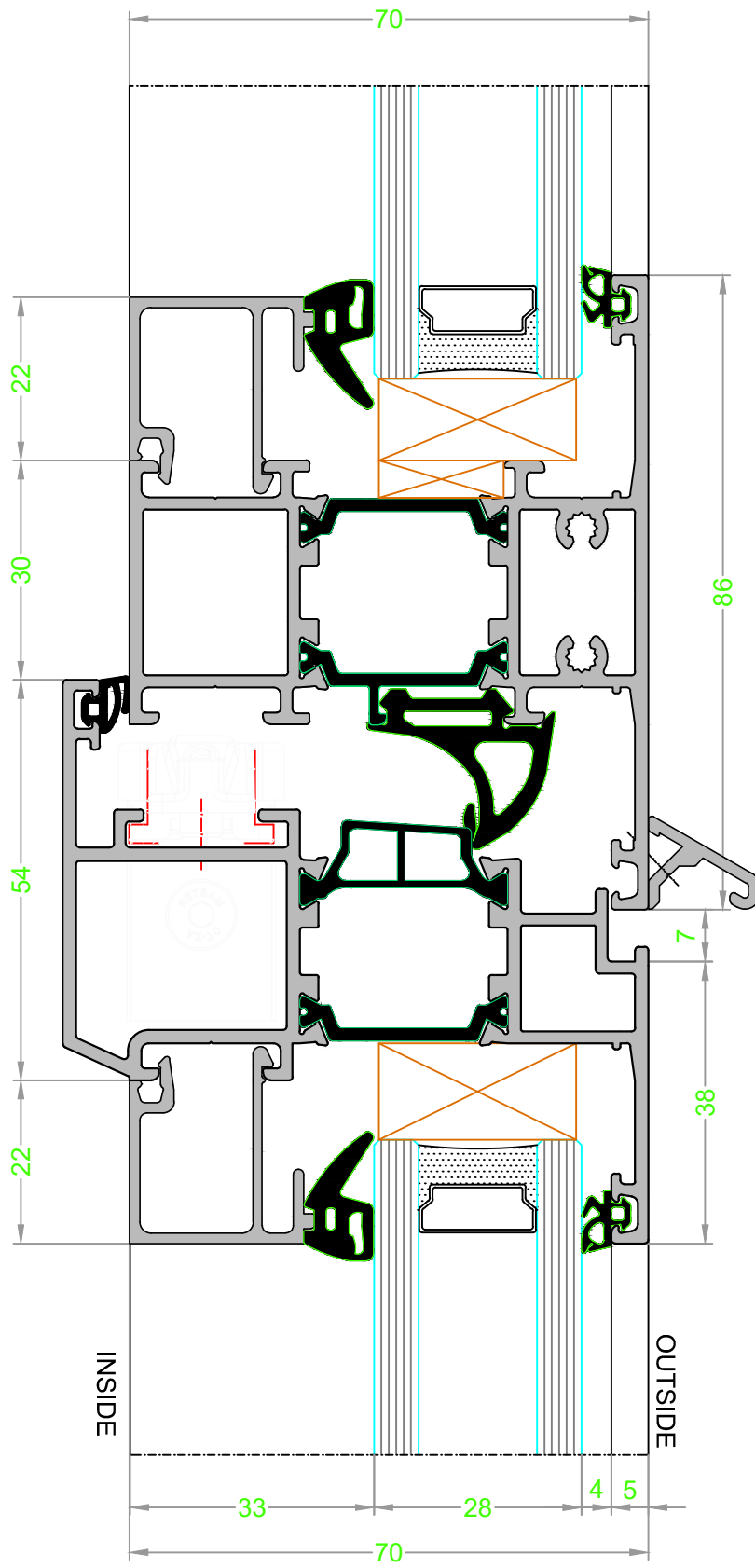


WINDOW HEAD SECTION DETAIL  
(OPEN IN)

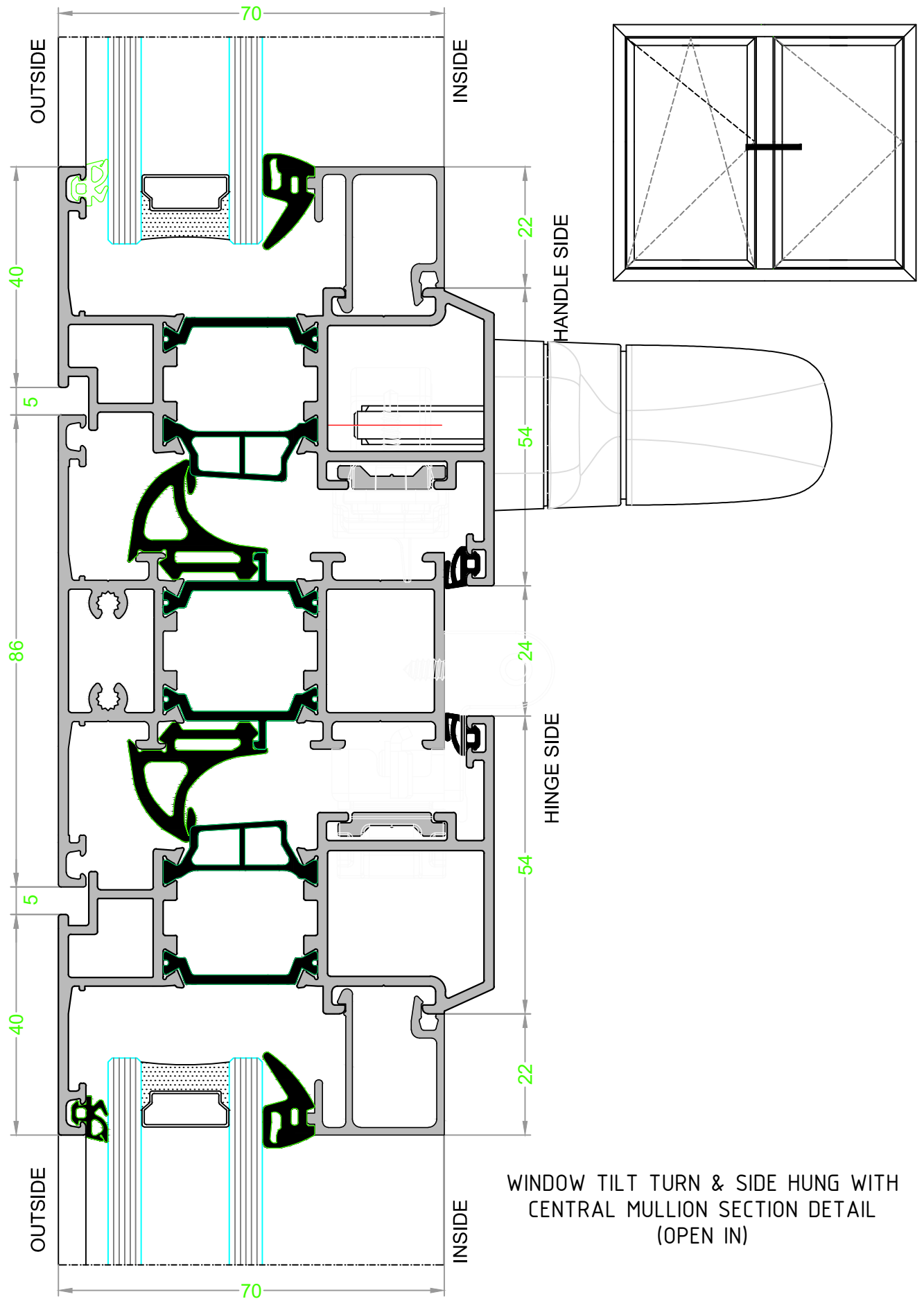


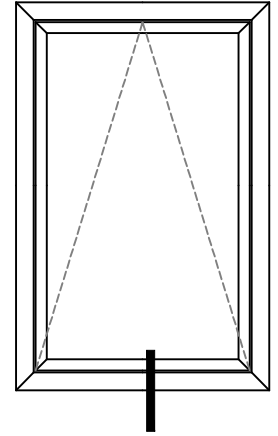
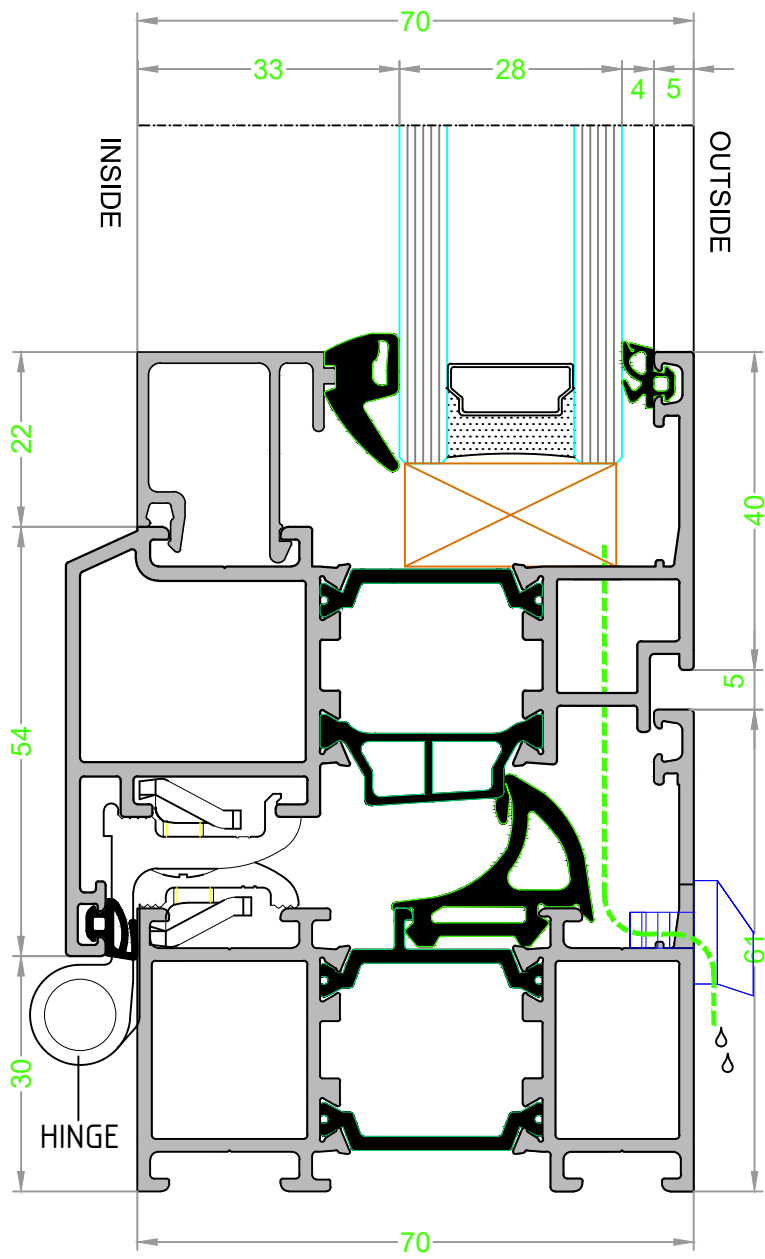
WINDOW CENTRAL WITH  
SIDE FIX SECTION DETAIL  
(OPEN IN)





WINDOW HEAD WITH TOP  
FIX SECTION DETAIL  
(OPEN IN)



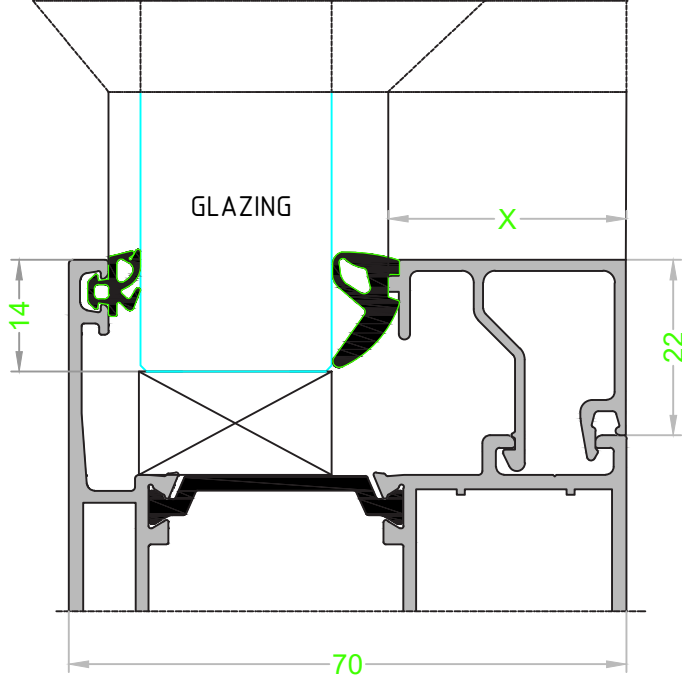


BOTTOM HUNG WINDOW SILL  
SECTION DETAIL  
(OPEN IN)

# GLAZING OPTIONS

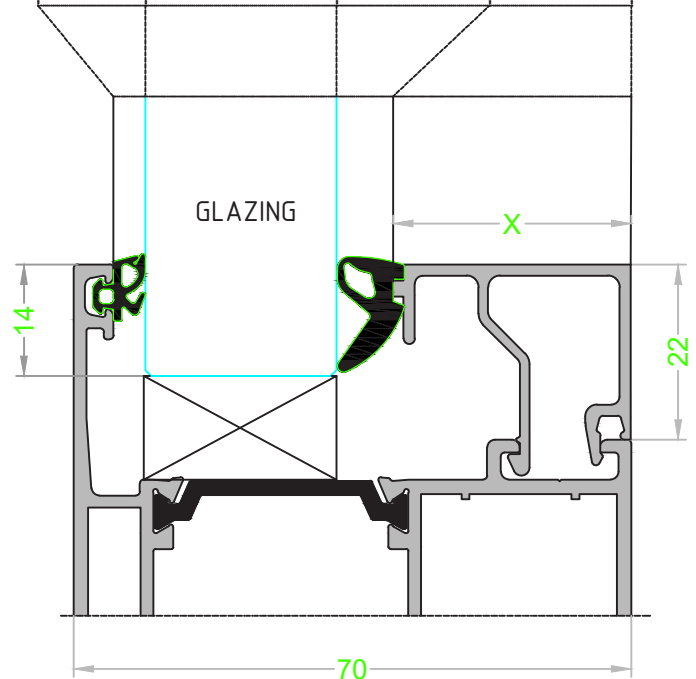
## GLAZING OPTION : 1

GLAZING THICKNESS 24mm - 32mm			
OUTER GASKET	GLASS THICKNESS	INNER GASKET	BEAD PROFILE (X)
GK001	24mm	GK006 (12mm)	25mm
GK001	26mm	GK005 (10mm)	25mm
GK001	28mm	GK004 (8mm)	25mm
GK001	30mm	GK003 (6mm)	25mm
GK001	32mm	GK002 (4mm)	25mm



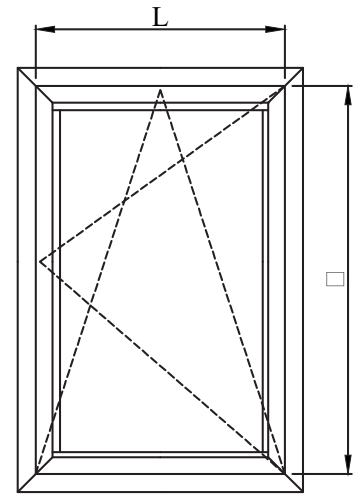
## GLAZING OPTION : 2

GLAZING THICKNESS 34mm - 42mm			
OUTER GASKET	GLASS THICKNESS	INNER GASKET	BEAD PROFILE (X)
GK001	34mm	GK006 (12mm)	15mm
GK001	36mm	GK005 (10mm)	15mm
GK001	38mm	GK004 (8mm)	15mm
GK001	40mm	GK003 (6mm)	15mm
GK001	42mm	GK002 (4mm)	15mm



# SIZE LIMITATIONS

## MAXIMUM WEIGHT OF THE SASH (aluminium + glass =160 Kg)



2700	50	50	47	40	34	30	26	24	22	20	18	17	16	15	14
2600	50	50	49	41	35	31	27	25	22	21	19	18	16	15	14
2500	50	50	50	43	37	32	28	26	23	21	20	18	17	16	15
2400	50	50	50	44	38	33	30	27	24	22	21	19	18	17	16
2300	50	50	50	46	40	35	31	28	25	23	21	20	19	17	16
2200	50	50	50	48	42	36	32	29	26	24	22	21	19	18	17
2100	50	50	50	50	44	38	34	30	28	25	23	22	20	19	16
2000	50	50	50	50	46	40	36	32	29	27	25	23	21	20	17
1900	50	50	50	50	48	42	37	34	31	28	26	24	22	19	18
1800	50	50	50	50	50	44	40	36	32	30	27	25	21	20	19
1700	50	50	50	50	50	47	42	38	34	31	29	24	23	21	20
1600	50	50	50	50	50	50	44	40	36	33	28	26	24	23	18
1500	50	50	50	50	50	50	47	43	39	36	30	27	26	20	15
1400	50	50	50	50	50	50	50	46	42	34	32	29	23	17	16
1300	50	50	50	50	50	50	50	49	40	37	34	26	20	18	12
1200	50	50	50	50	50	50	50	48	44	40	31	23	21	13	6
1100	50	50	50	50	50	50	50	50	48	36	27	25	16	7	N.D.
1000	50	50	50	50	50	50	50	50	44	32	30	18	9	N.D.	N.D.
900	50	50	50	50	50	50	50	43	39	24	11	N.D.	N.D.	N.D.	N.D.
800	50	50	50	50	50	50	50	48	29	13	N.D.	N.D.	N.D.	N.D.	N.D.
700	50	50	50	50	50	50	50	18	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
600	50	50	50	50	50	50	24	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
500	50	50	50	50	50	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
H L	370	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700

NOTE : FOR INCREASE GLASS WEIGHT CONTACT TECHNICAL DEPARTMENT

N.D. = Dimension Not Available

**Interpon D Approved Applicator**

**Interpon D2000 Series**

**FUTURE SCAFFOLDING &  
ALUMINIUM INDUSTRIES**

**L.L.C**

DUBAI INDUSTRIAL CITY, U.A.E.

Has fulfilled AkzoNobel's tests and inspection regarding the pre-treatment, application, quality management standards and procedures, and complies with the requirements of the Architectural Range Approved Applicator schedule.

This certificate is effective from

**12 November 2019 to 11 November 2020**

Approved for Aluminium Alloys AA 6063

Approved for Pre-treatment Type Chrome Free



**António Balsinha**

Technical Service Manager  
Powder Coatings – Middle East

Date: 12/11/2019

Certification number N° UAE39D2



# Certificate of Assessment

Awarded to

## FUTURE SCAFFOLDING AND ALUMINIUM INDUSTRIES LLC

at

P.O. BOX NO: 119950, DUBAI INDUSTRIAL CITY, DUBAI, UAE

Quality Registrar Systems certify that the management system of the above organization has been audited and found to be in compliance with the QRS requirements for registration of the management system standard detailed below:

### ISO 9001:2015

Quality Management Systems

Scope of work

ALUMINIUM EXTRUSION, ALUMINIUM FORM WORK, ALUMINIUM SCAFFOLDING, ALUMINIUM & STEEL FABRICATION AND METAL COATING

Certificate No: DQU-10431

Originally Registered: 25 OCT 2016

Latest Issue: 15 OCT 2017

Valid up-to: 24 OCT 2018

Quality Registrar Systems



CB-037-MS



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WORLD WIDE CERTIFICATION

Quality Registrar Systems is accredited by Dubai Accreditation Department (DAC) for the Scope mention on Quality Registrar Systems (QRS) Accreditation Certificate No. CB-037-MS



## OUR OFFICE LOCATION

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