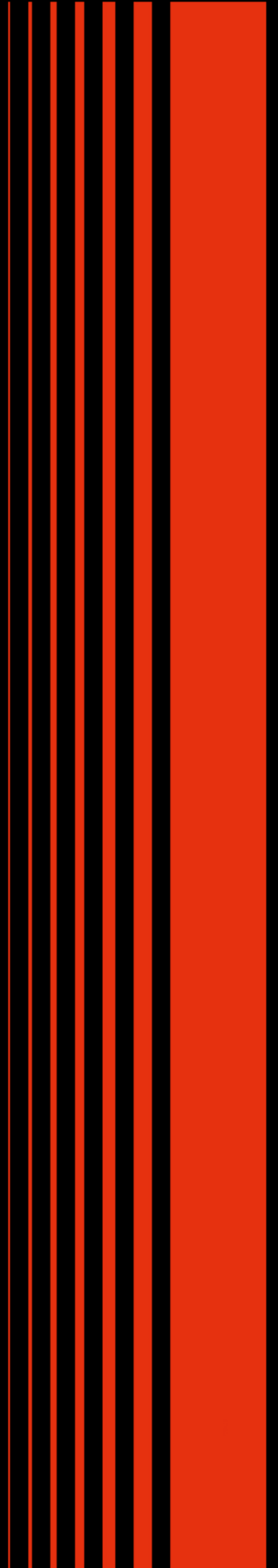




Engelberg[®] 7000

Architectural Technical Catalog



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CERTIFICATES





Certificates of quality and conformity confirm that AKFA W&D products are safe, reliable, and meet all technical specifications.

Moreover, the company has adopted a quality management system according to ISO 9000:2015. The adoption of the international standard ensures that customers receive high quality products and service.

CE

AKFA ASSEMBLY LLC.
 Yangikhaet District, Str. Kipchak 2-Jane, Building 100
 Republic of Uzbekistan, Tashkent City
 22

EN 14351-1:2006+A2:2016
Windows and Doors – Product Standard

PVC 7000 Window System
Aluminum window and exterior window system designed for uses in houses and offices

Resistance to wind load – Test pressure : Class 4 (±1600)

Resistance to wind load – Deflection : Class C

Watertightness – Fully exposed (A) : Class 9A

Watertightness – Partially shielded (B) : npd

Height and Width – 1500 mm , 850 mm

Resistance to static torsion – Class 4 (350 N)

Acoustic performance – $R_w (C ; C_{tr}) = 36 (-1 ; -3)$ dB

Thermal conductivity – $U_w = 2,29$ W/m²K

Air permeability – Class 4

System 3

Performance Declaration No: 6

CERTIFICATE

«CERT INTERNATIONAL» s.r.o. certification body basing on the results of the audit conducted in accordance with certification procedures confirms that the integrated management system of:

JV «AKFA EXTRUSIONS» LLC
 with production sites (see Annex)

FEZ Navoi, Karmana district,
 Navoi region, 210609, Republic of Uzbekistan

within the scope:

Production of aluminum and polyvinyl chloride (PVC) profiles,
 as well as components for window and door blocks

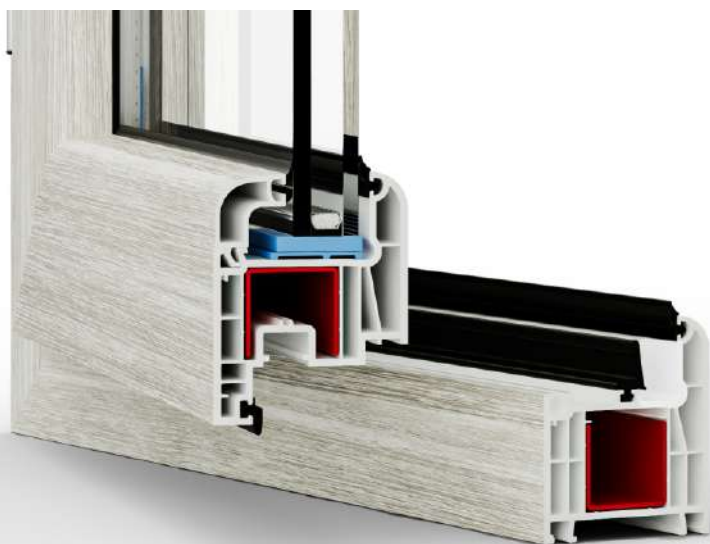
meets the requirements of the following standards:

ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

Certificate №: IMS-0411/C
 Order №: 665/05
 Valid from: 01.12.2022
 Valid till: 14.11.2024
 (subject to annual surveillance audits)

Head of the Certification Body
 01.12.2022

Status of this certificate can be enquired by QR-code or from request to the Certification body CERT International s.r.o.
 01470201, Kocanova 66, 010 01 Bratislava, Slovakia
 Tel.: +42123204876, www.certint.org, info@certint.org



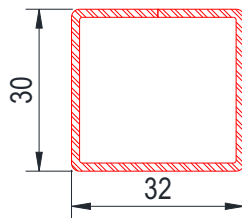
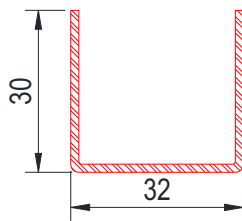
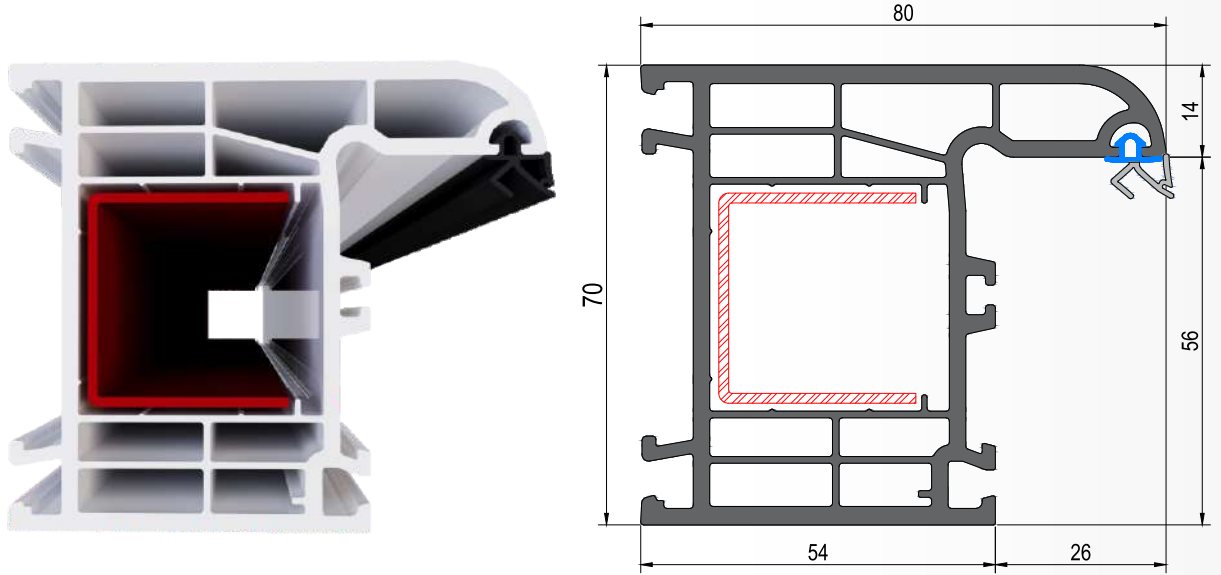
TECHNICAL PROPERTIES

FRAME WIDTH	70 mm
FRAME HEIGHT INSIDE - OUTSIDE	54 / 80 mm
MULLION WIDTH INSIDE - OUTSIDE	42 / 94 mm
SASH WIDTH STANDARD - SELF DRAINAGE	68 - 68 mm
WINDOW SASH HEIGHT INSIDE - OUTSIDE / TOTAL	62 - 68 / 88 mm
DOOR SASH HEIGHT INSIDE - OUTSIDE / TOTAL	94 - 100 / 120 mm
DOOR SASH HEIGHT INSIDE - OUTSIDE / TOTAL	74 - 120 / 120 mm
GLASS THICKNESS	24mm / 32 mm
NUMBER OF CHAMBER FOR FRAME PROFILES	5
NUMBER OF CHAMBER FOR SASH PROFILES	5
NUMBER OF CHAMBER FOR MULLION PROFILES	5

GENERAL FEATURES

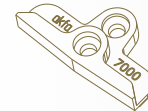
- * Possibility of using the same support sheet for frame, sash and mullion profile
- * 5-chamber profile designs allow the use of 20mm and 24mm glass.
- * Long-lasting PVC profile systems provide significant benefits in terms of environment and economy, as well as heat and sound insulation.
- * In this self-sealed profile system, corners can be welded using TPV gasket, thus providing a high degree of detachability.
- * The additional third seal on frames and mullion profiles allow the use of EPDM gasket.
- * It provides the advantage of fast production thanks to its self-sealing profile.

FRAME PROFILE CLASS-B PTG.70.F0001



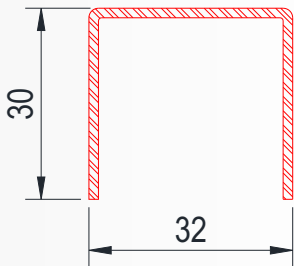
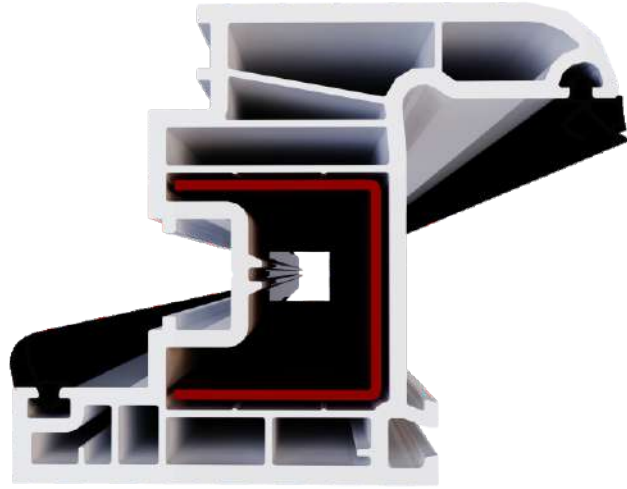
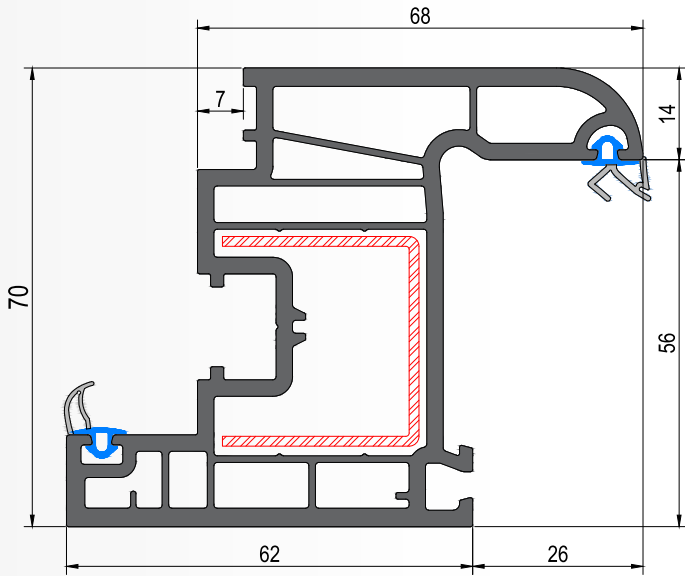
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CLR77.W890-2	1,25	1,07	2,03
CLR77.W890-3	1,5	1,26	2,38
CLR77.W890-4	2,0	1,63	3,03
CLR77.W891-1	1	0,00	0,00
CLR77.W891-2	1,25	2,07	2,29
CLR77.W891-3	1,5	2,40	2,66
CLR77.W891-4	2,0	3,03	3,36

ACS.012.001-7003



CLASS-B
PTG.70.V0011

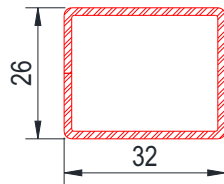
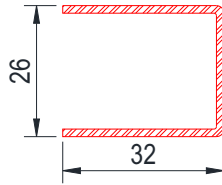
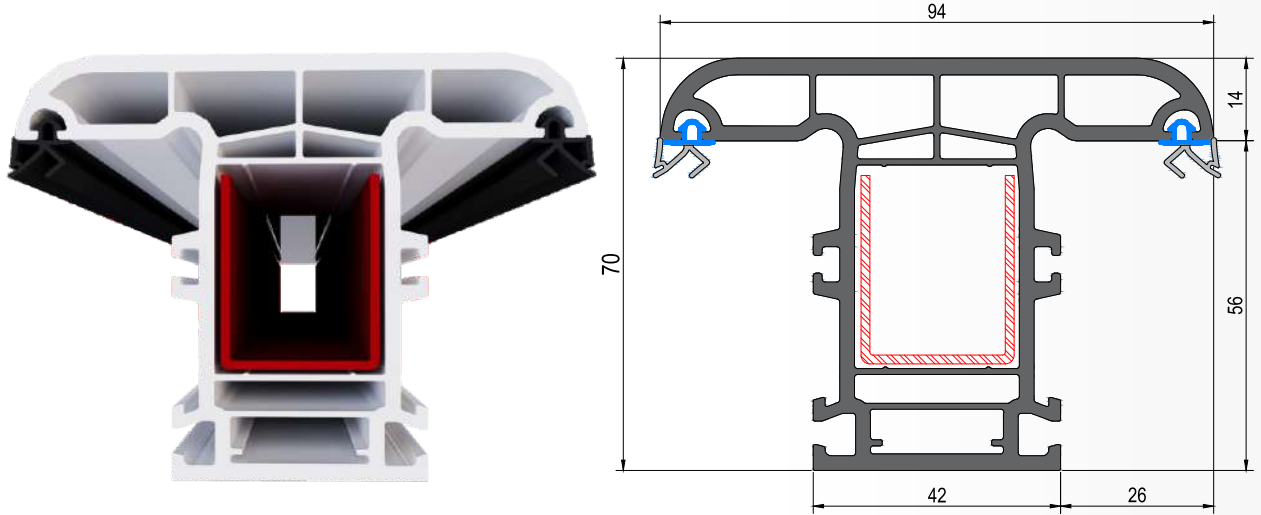
SASH PROFILE

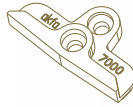
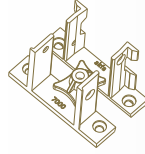


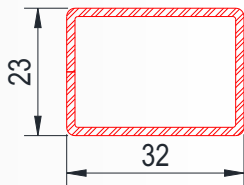
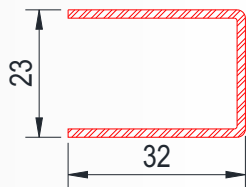
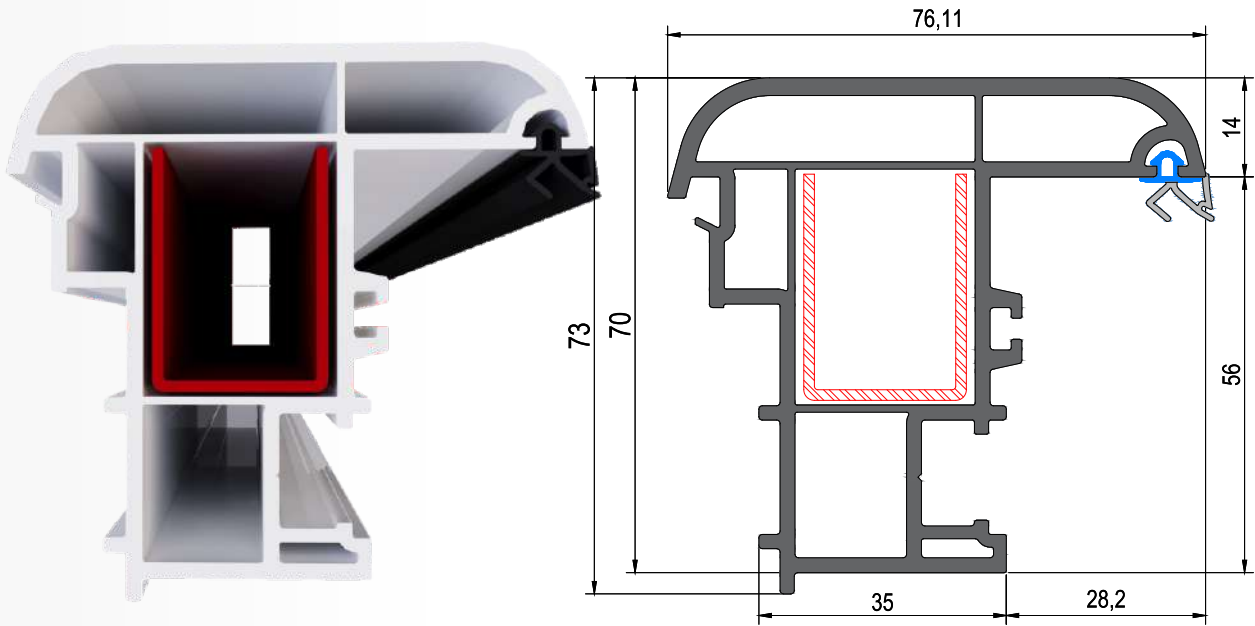
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CLR77.W890-3	1,5	1,26	2,38
CLR77.W890-4	2,0	1,63	3,03

MULLION PROFILE CLASS-B

PTG.70.M0001



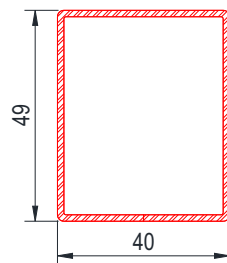
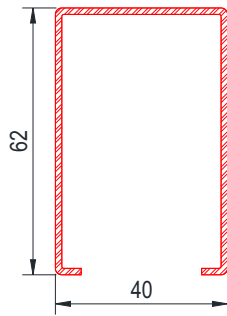
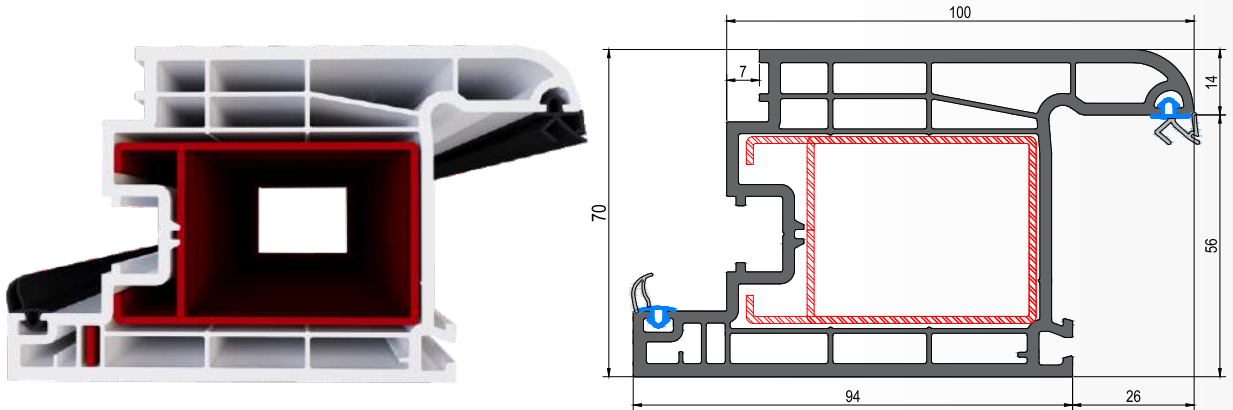
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CLR77.W892-3	1,5	1,58	1,40
CLR77.W892-4	2,0	2,00	1,81
CLR77.W891-1	1	0,00	0,00
CLR77.W891-2	1,25	1,48	2,05
CLR77.W891-3	1,5	1,72	2,38
CLR77.W891-4	2,0	2,15	3,00
ACS.012.001-7003			
ACS.033.IMP-7004			



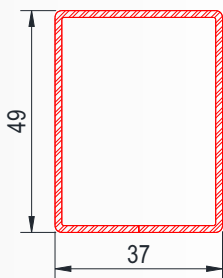
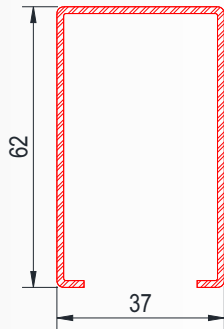
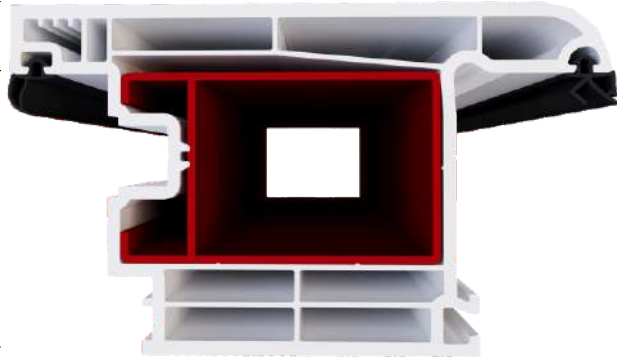
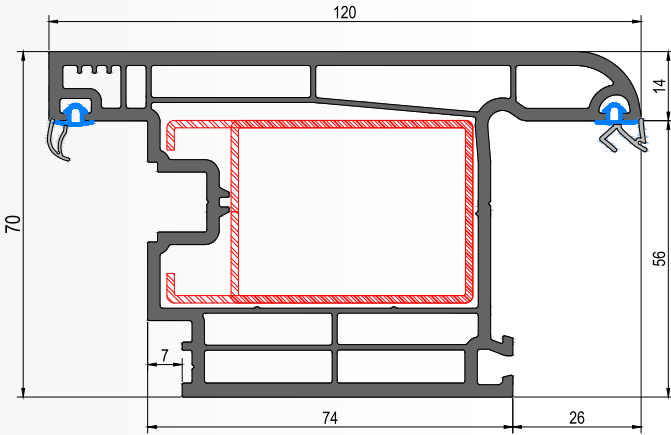
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CLR77.W898-3	1,5	1,20	1,34
CLR77.W898-4	2,0	1,51	1,73
CLR77.W900-1	1	0,00	0,00
CLR77.W900-2	1,25	1,12	1,87
CLR77.W900-3	1,5	1,29	2,17
CLR77.W900-4	2,0	1,61	2,73
ACS.083.CCP-7079-1			

INWARD OPENING DOOR SASH

CLASS-B
PTG.70.V0012



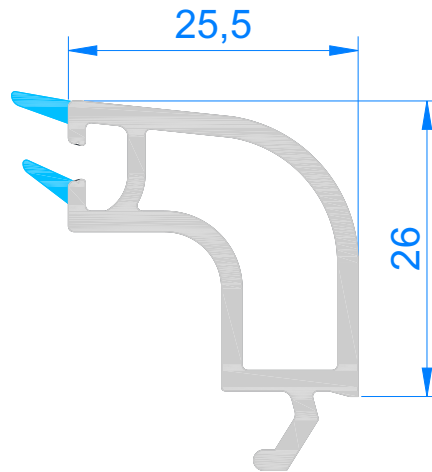
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CLR77.W896-3	1,5	11,47	7,82	
CLR77.W896-4	2,0	14,36	9,96	
CLR77.W897-1	1	0,00	0,00	
CLR77.W897-2	1,25	7,75	5,67	
CLR77.W897-3	1,5	9,10	6,65	
CLR77.W897-4	2,0	11,70	8,52	



Product Code	Thickness	Moment of Inertia	
	S (mm)	Ix (cm ⁴)	Iy (cm ⁴)
CLR77.W894-1	1	0,00	0,00
CLR77.W894-2	1,25	9,71	5,64
CLR77.W894-3	1,5	11,47	6,59
CLR77.W894-4	2,0	13,99	8,39
CLR77.W895-1	1	0,00	0,00
CLR77.W895-2	1,25	7,32	4,74
CLR77.W895-3	1,5	8,59	5,56
CLR77.W895-4	2,0	11,03	7,11

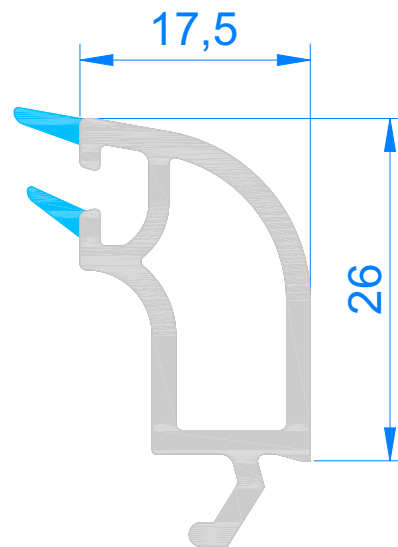
DOUBLE GLAZING BEAD 24MM

PTG.70.G0001



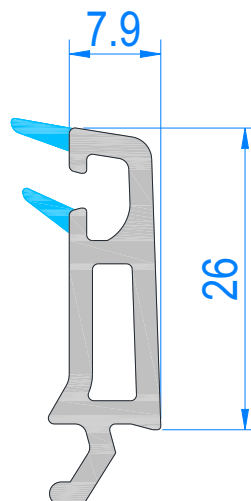
TRIPLE GLAZING BEAD 32MM

PTG.70.G0002



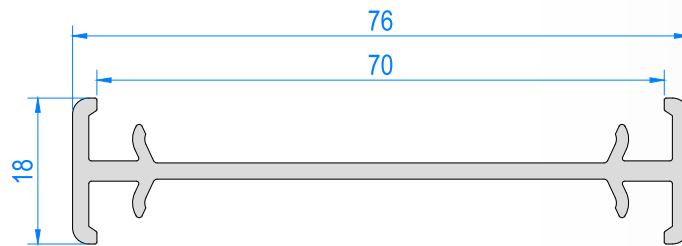
TRIPLE GLAZING BEAD 42MM

PTG.70.G0003



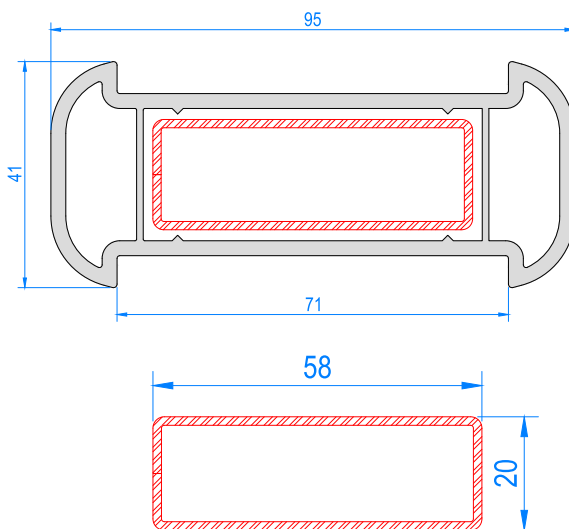
NARROW COUPLING PROFILE

PTG.70.A0003



WIDE COUPLING PROFILE

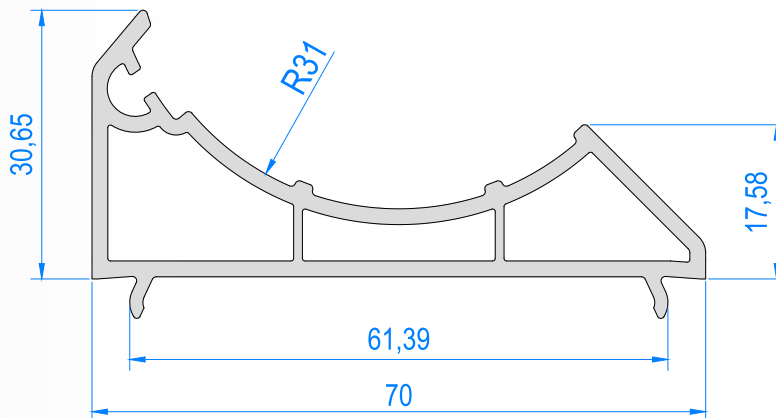
PTG.70.A0002



Product Cod	Thickness	Moment of Inertia	
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CLR77.W899-2	1,25	1,36	7,34
CLR77.W899-3	1,5	1,85	8,68
CLR77.W899-4	2,0	1,99	11,24

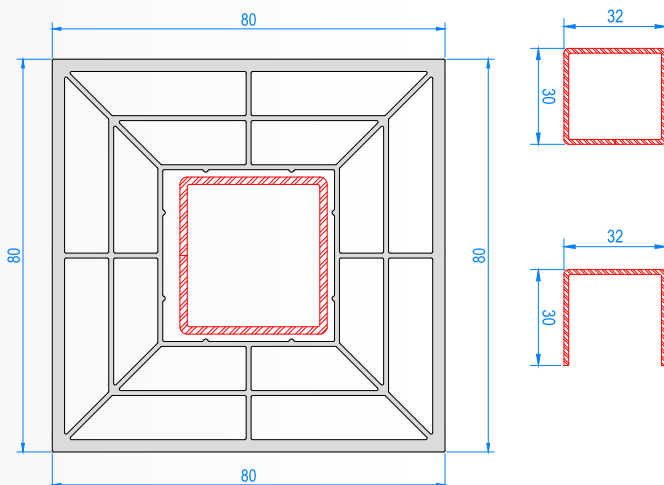
ANGLED CORNER ADAPTER

PTG.70.A0004



CORNER BOX PROFILE

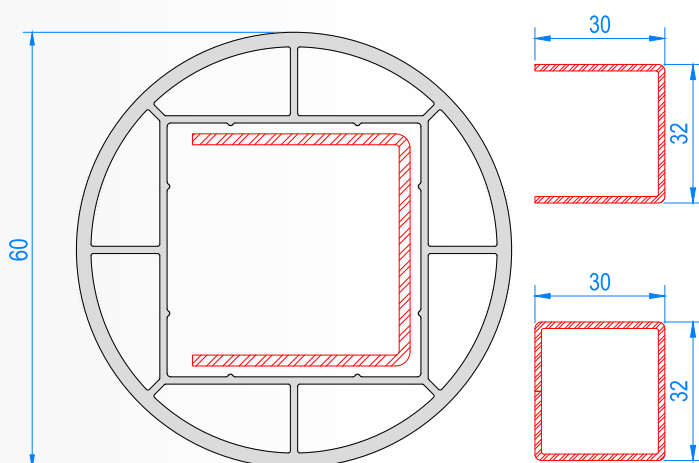
PTG.80.A0003



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CLR77.W890-2	1,25	1,07	2,03
CLR77.W890-3	1,5	1,26	2,38
CLR77.W890-4	2,0	1,63	3,03
CLR77.W891-1	1	0,00	0,00
CLR77.W891-2	1,25	2,07	2,29
CLR77.W891-3	1,5	2,40	2,66
CLR77.W891-4	2,0	3,03	3,36

CORNER PIPE PROFILE

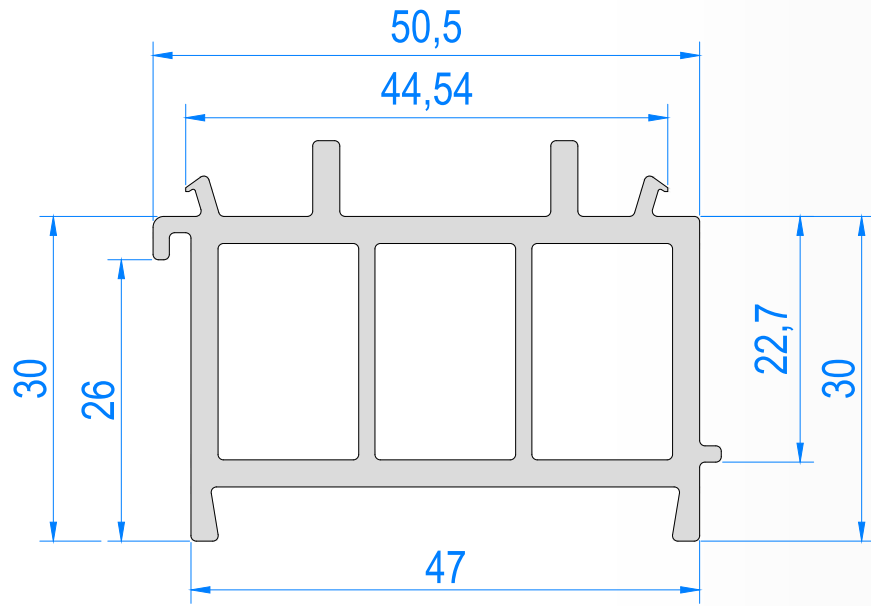
PT3.60.A0006



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CLR77.W890-3	1,5	1,26	2,38
CLR77.W890-4	2,0	1,63	3,03
CLR77.W891-1	1	0,00	0,00
CLR77.W891-2	1,25	2,07	2,29
CLR77.W891-3	1,5	2,40	2,66
CLR77.W891-4	2,0	3,03	3,36

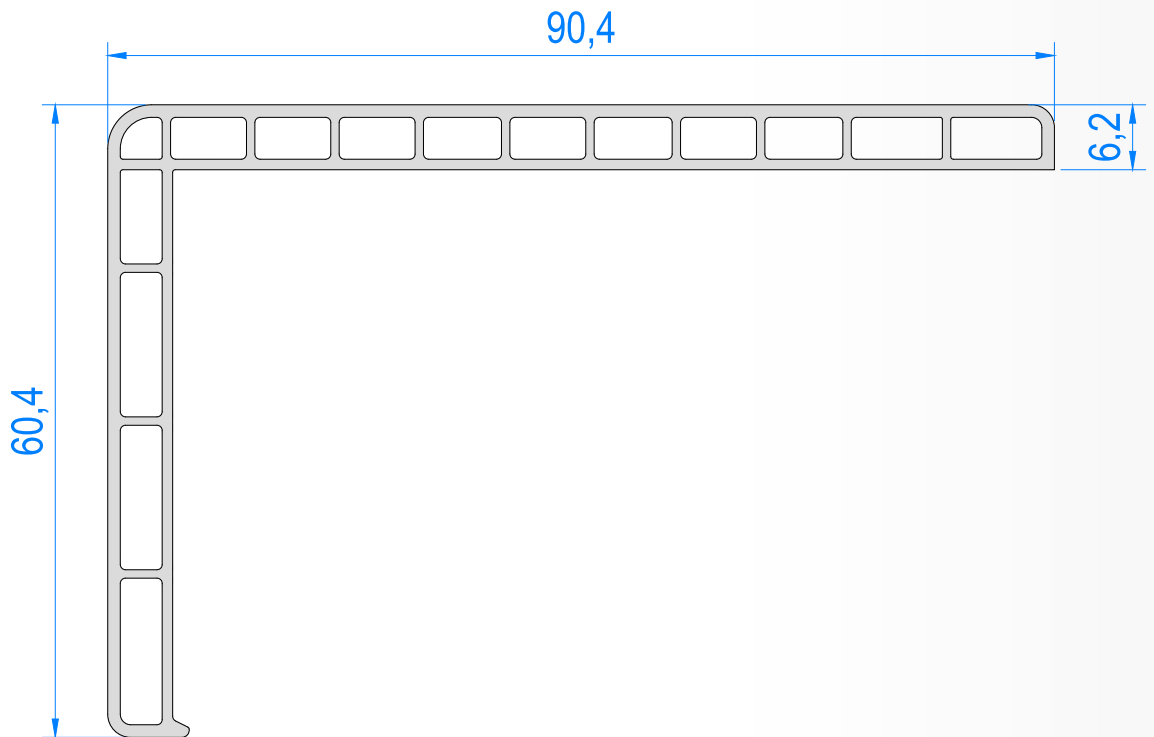
FRAME LIFTING PROFILE

PTG.70.A0005

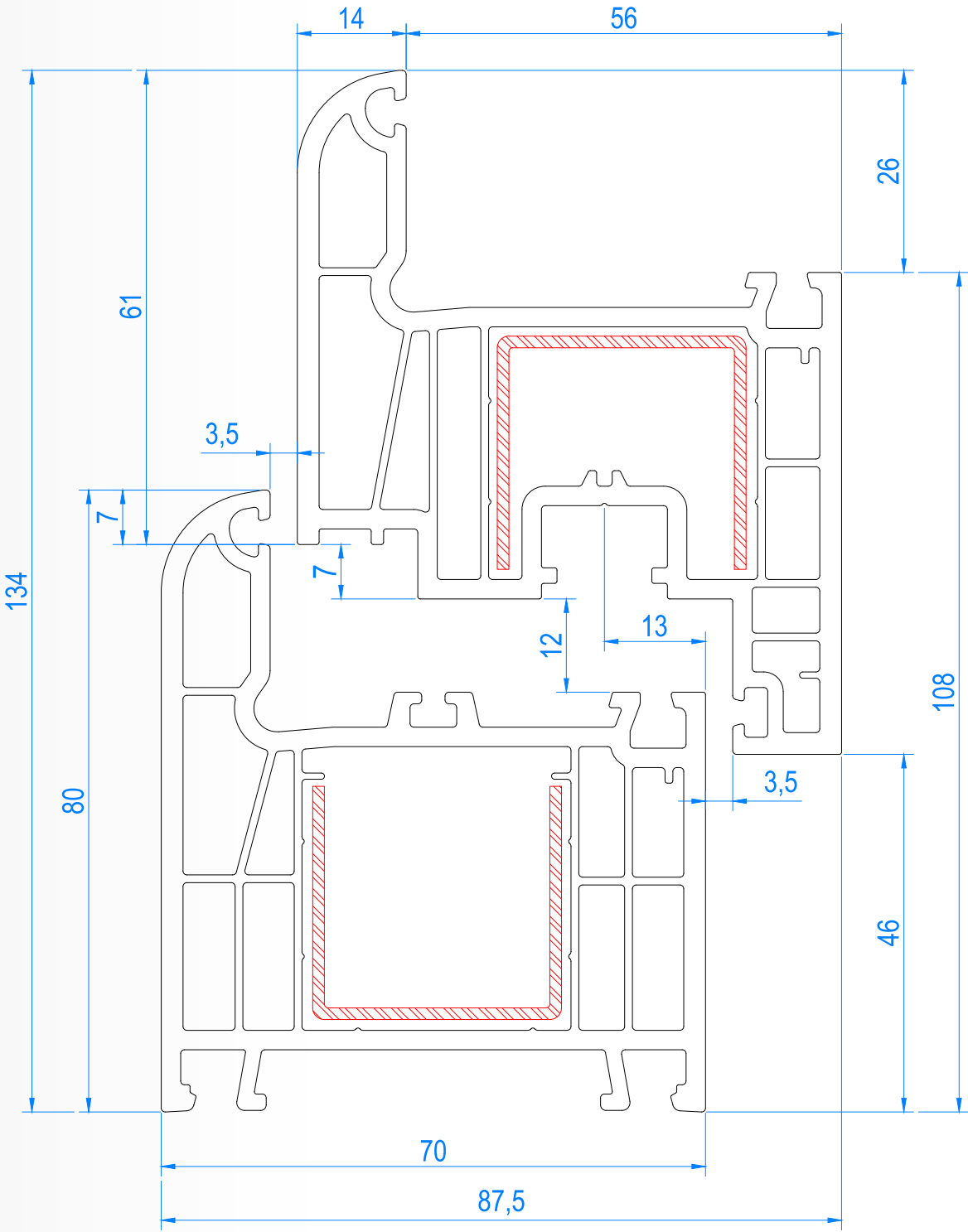


MASKING PROFILE

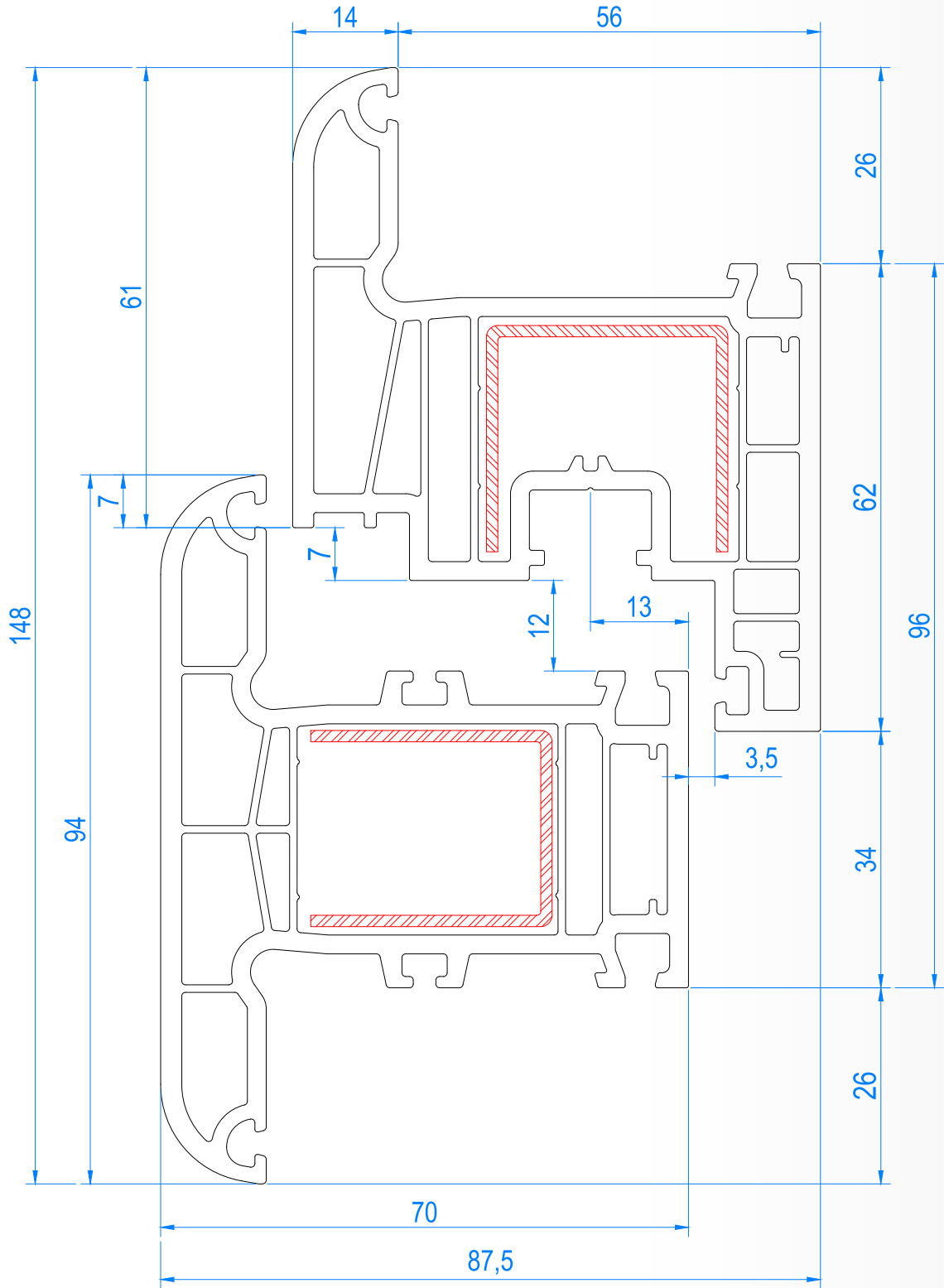
PTF.CP.F0001



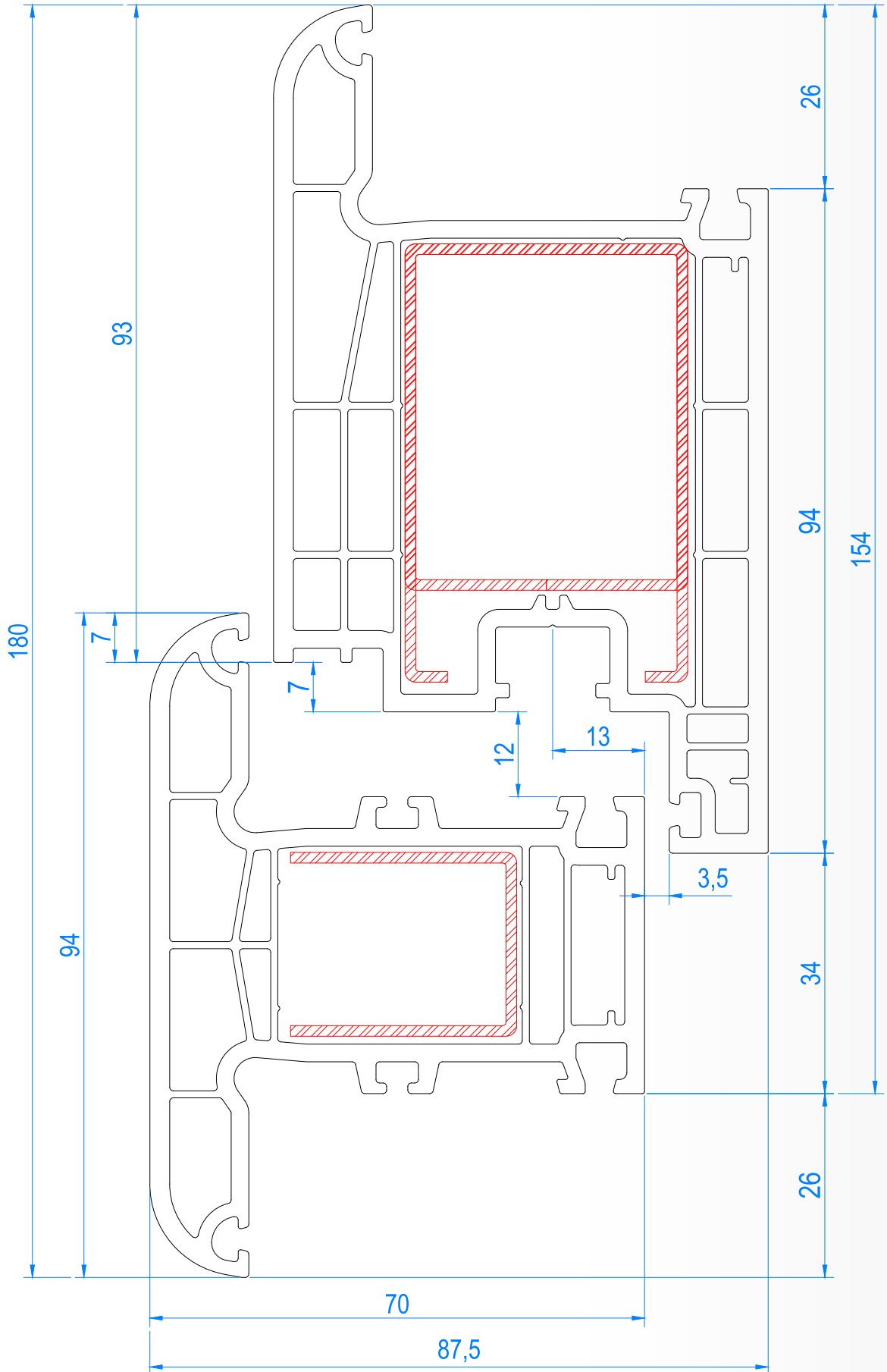
DIMENSIONED SECTION DETAILS



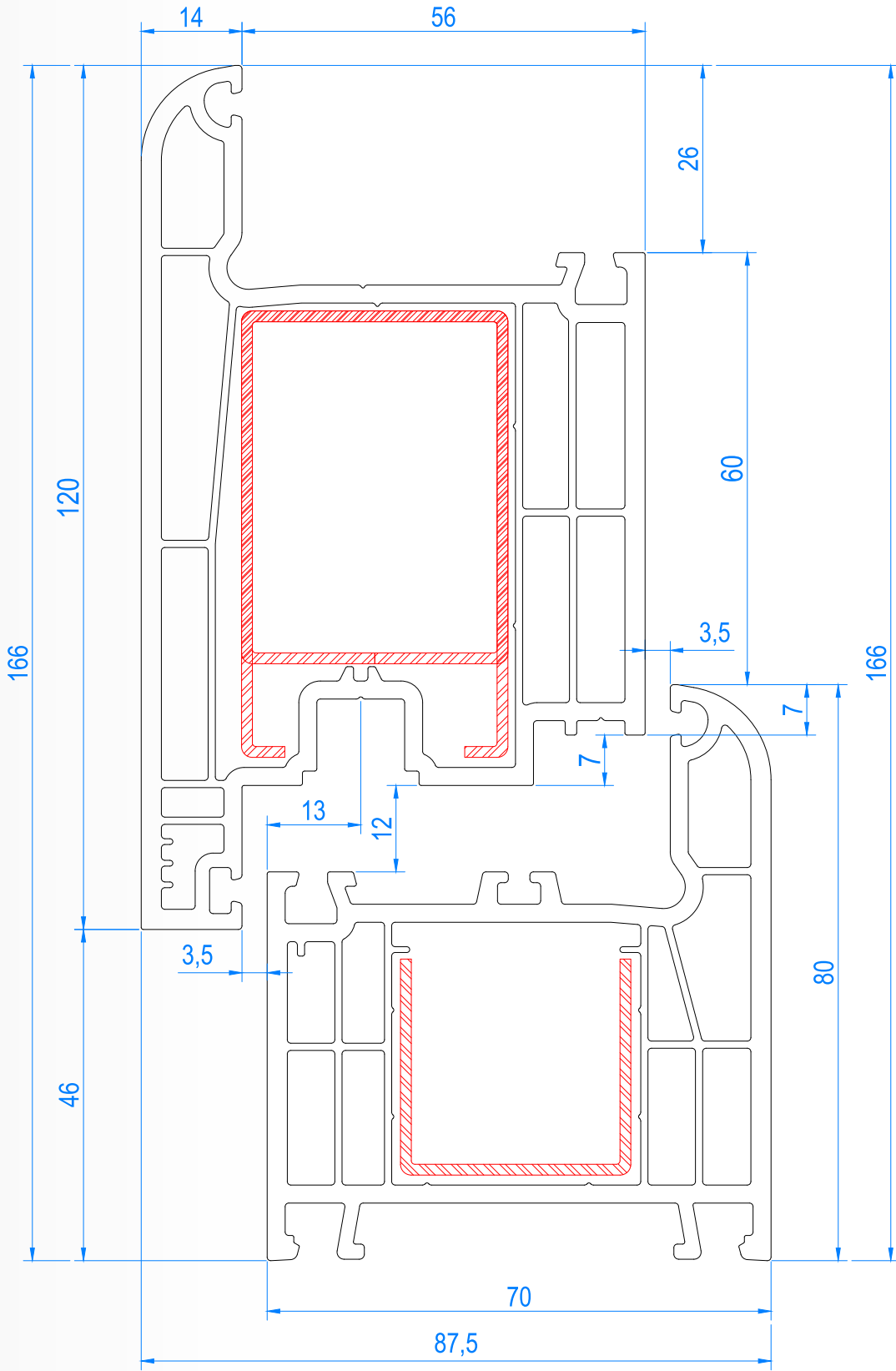
DIMENSIONED SECTION DETAILS



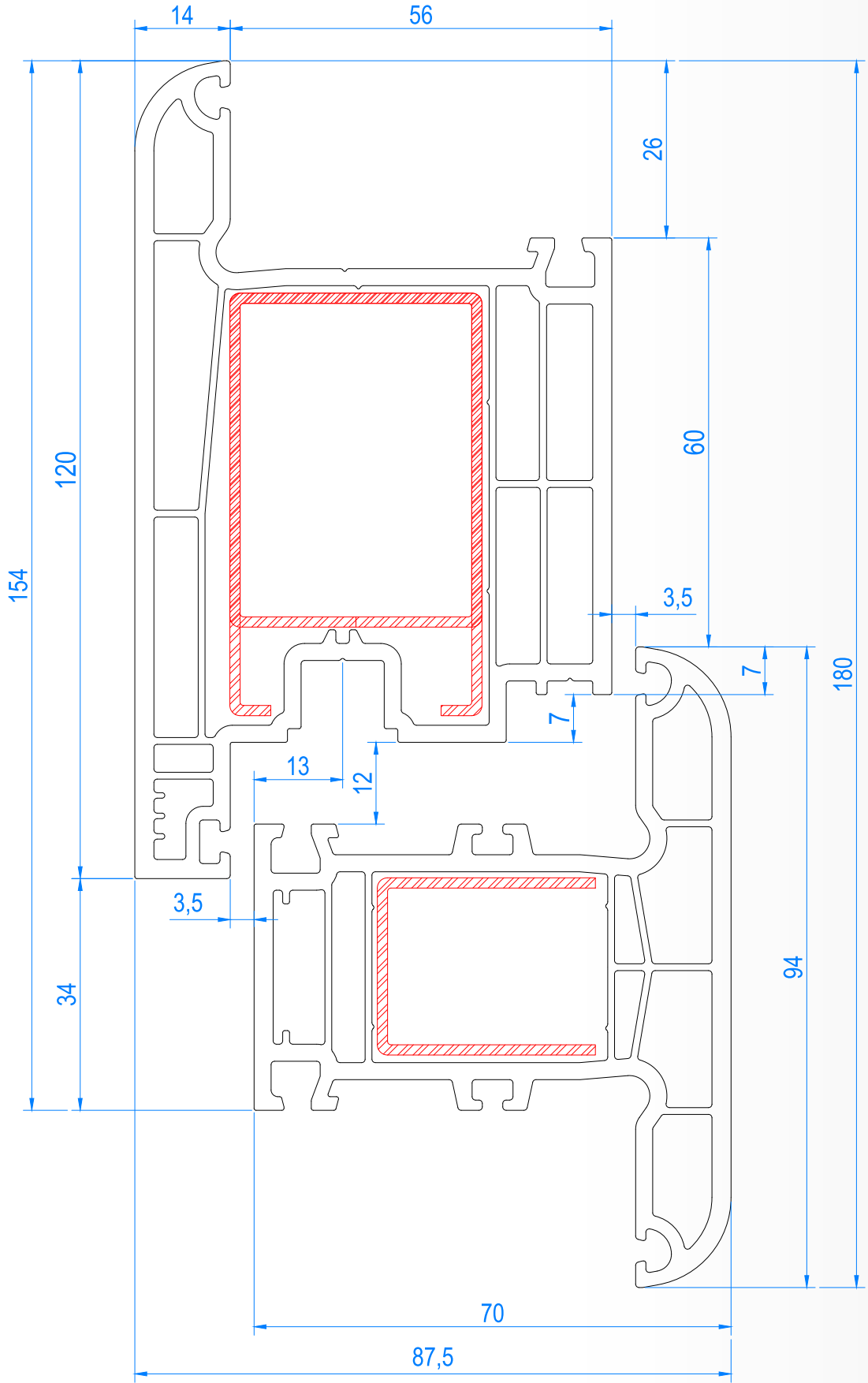
DIMENSIONED SECTION DETAILS



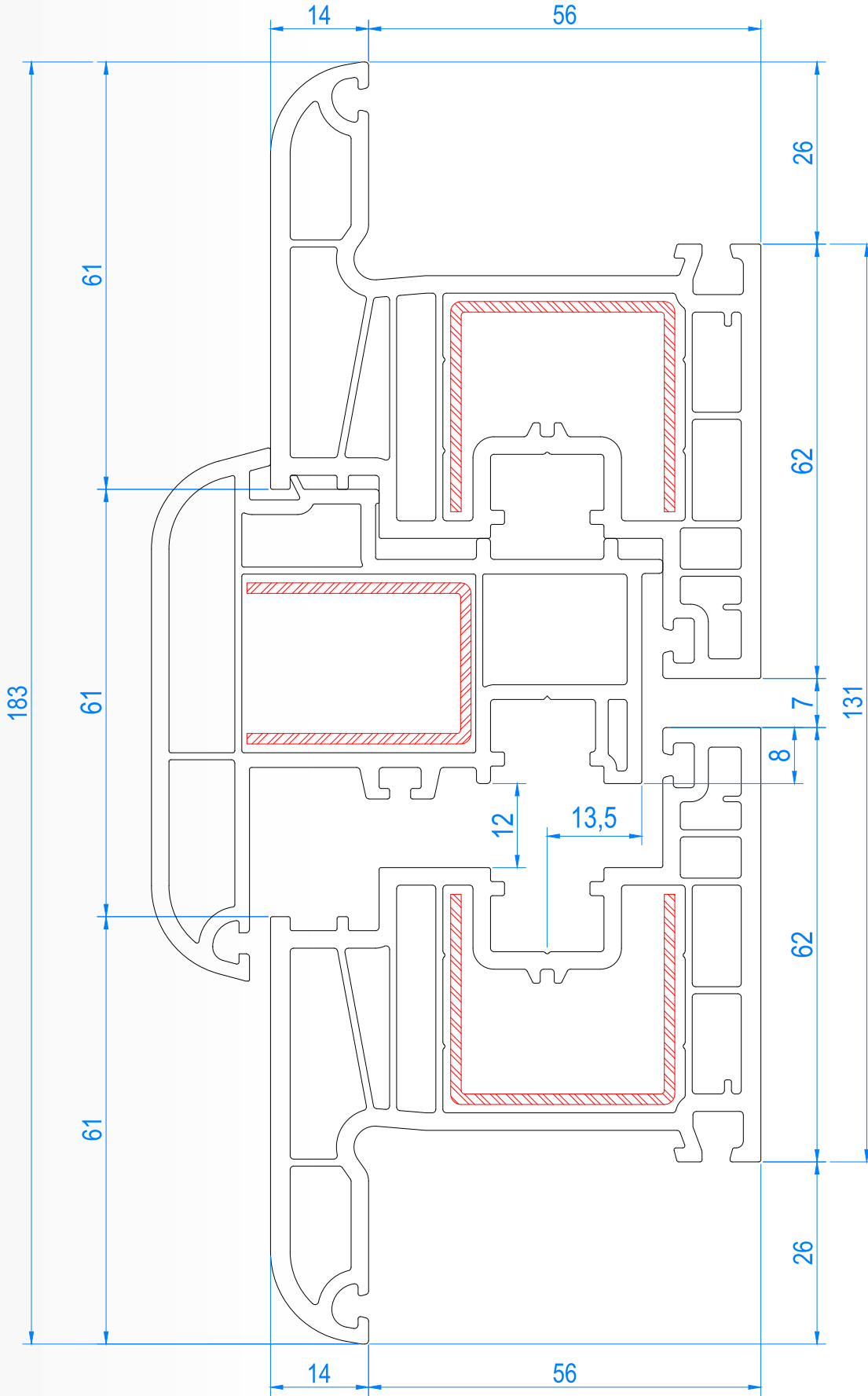
DIMENSIONED SECTION DETAILS



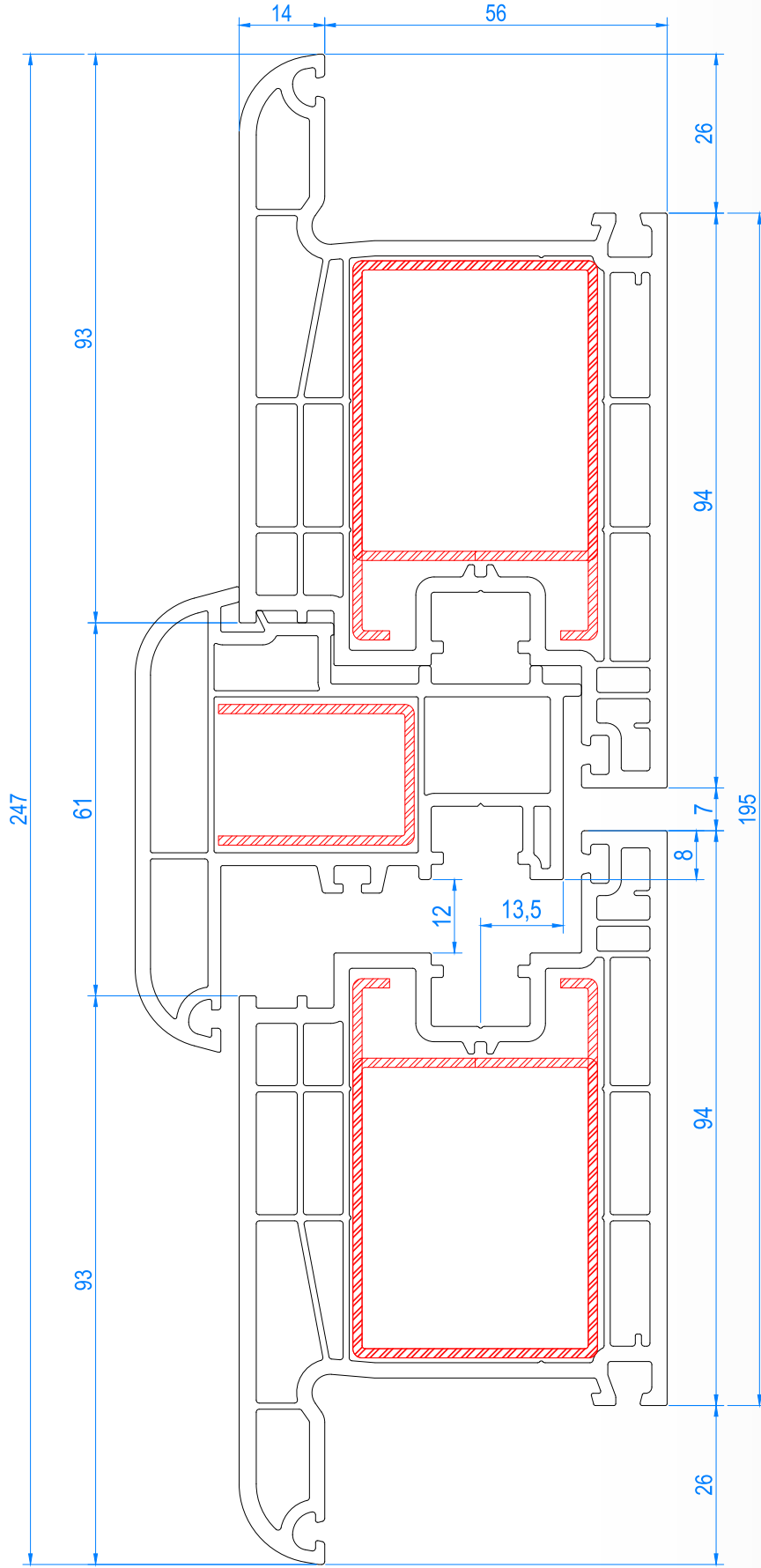
DIMENSIONED SECTION DETAILS



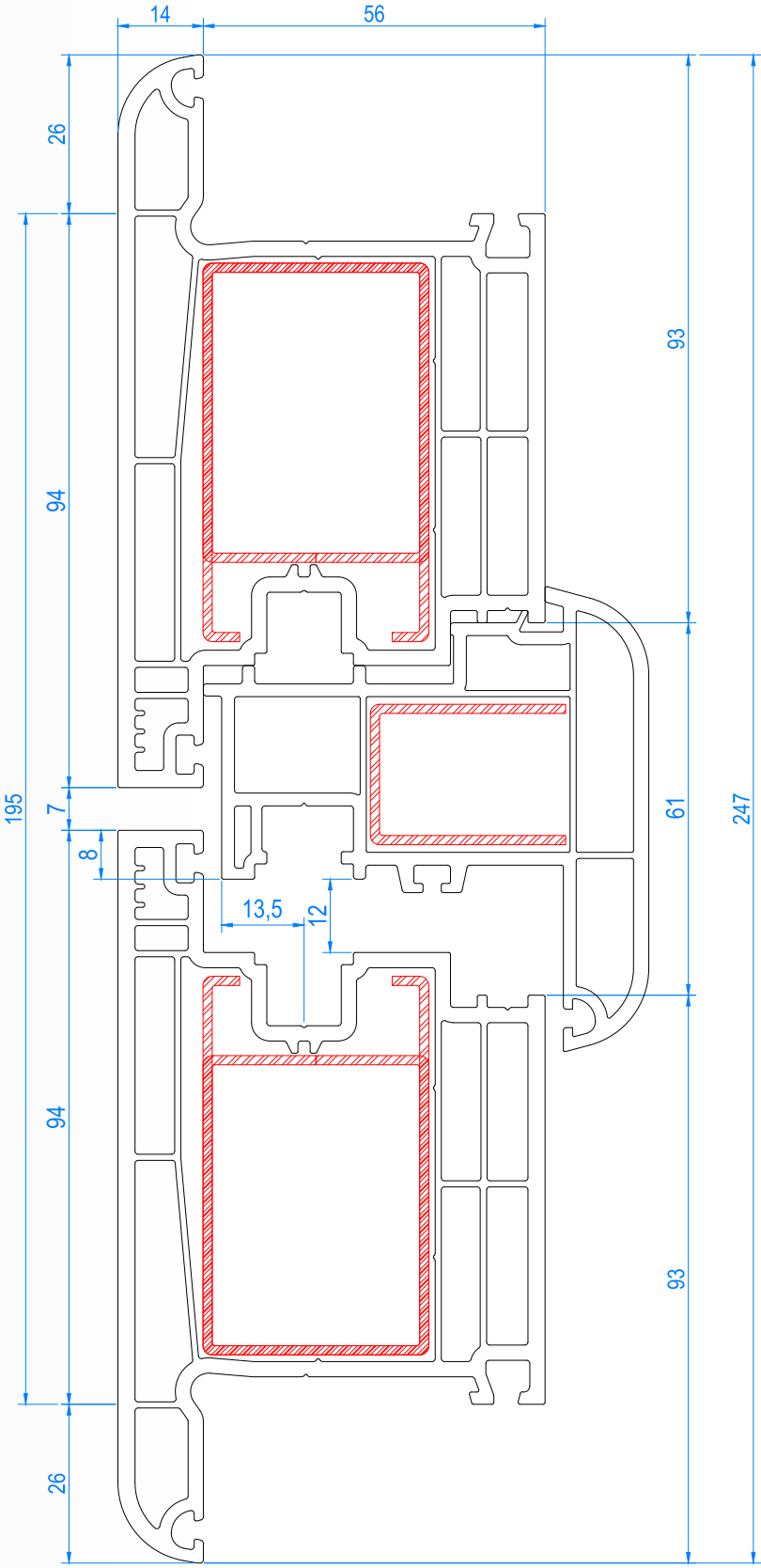
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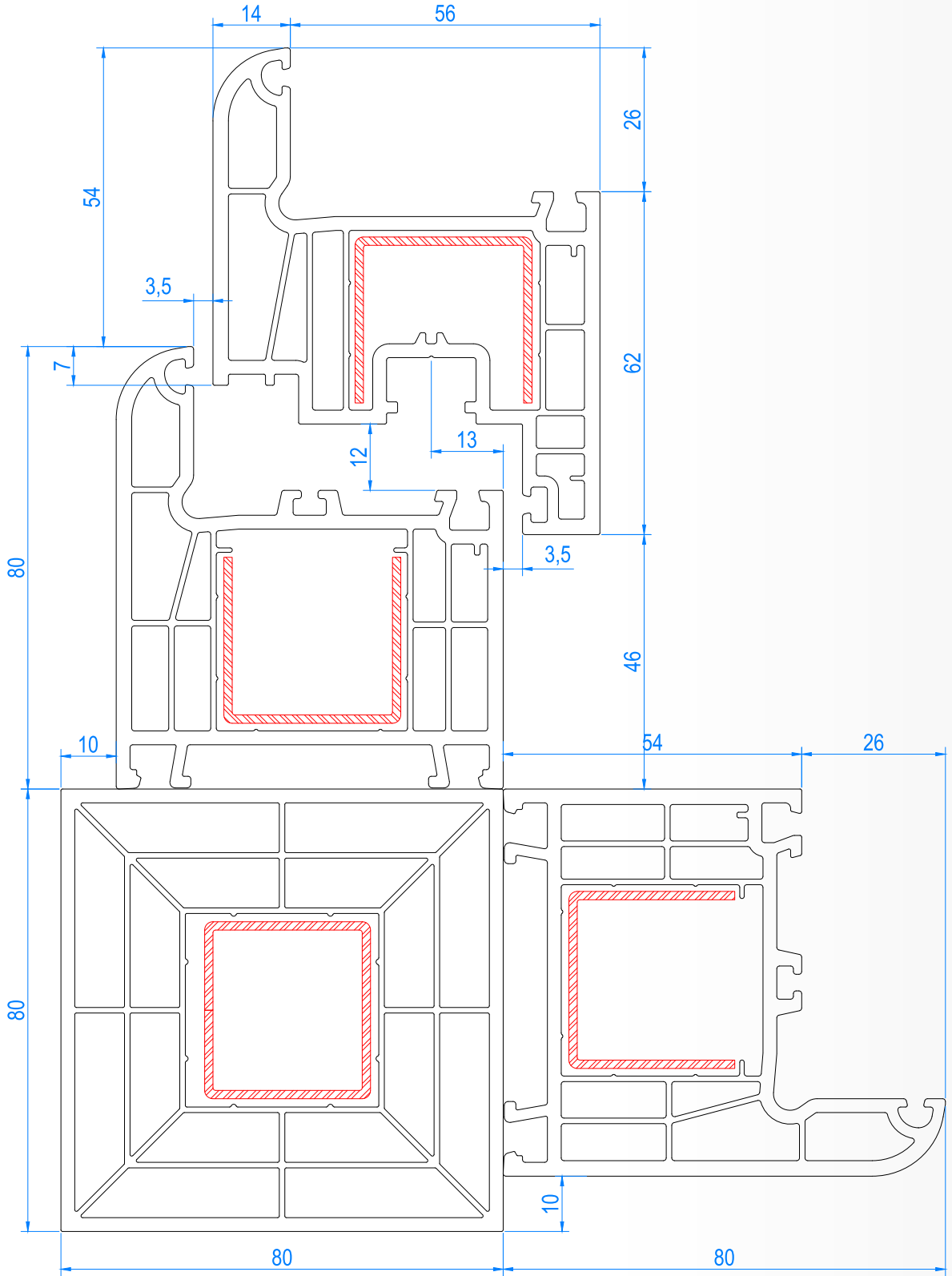
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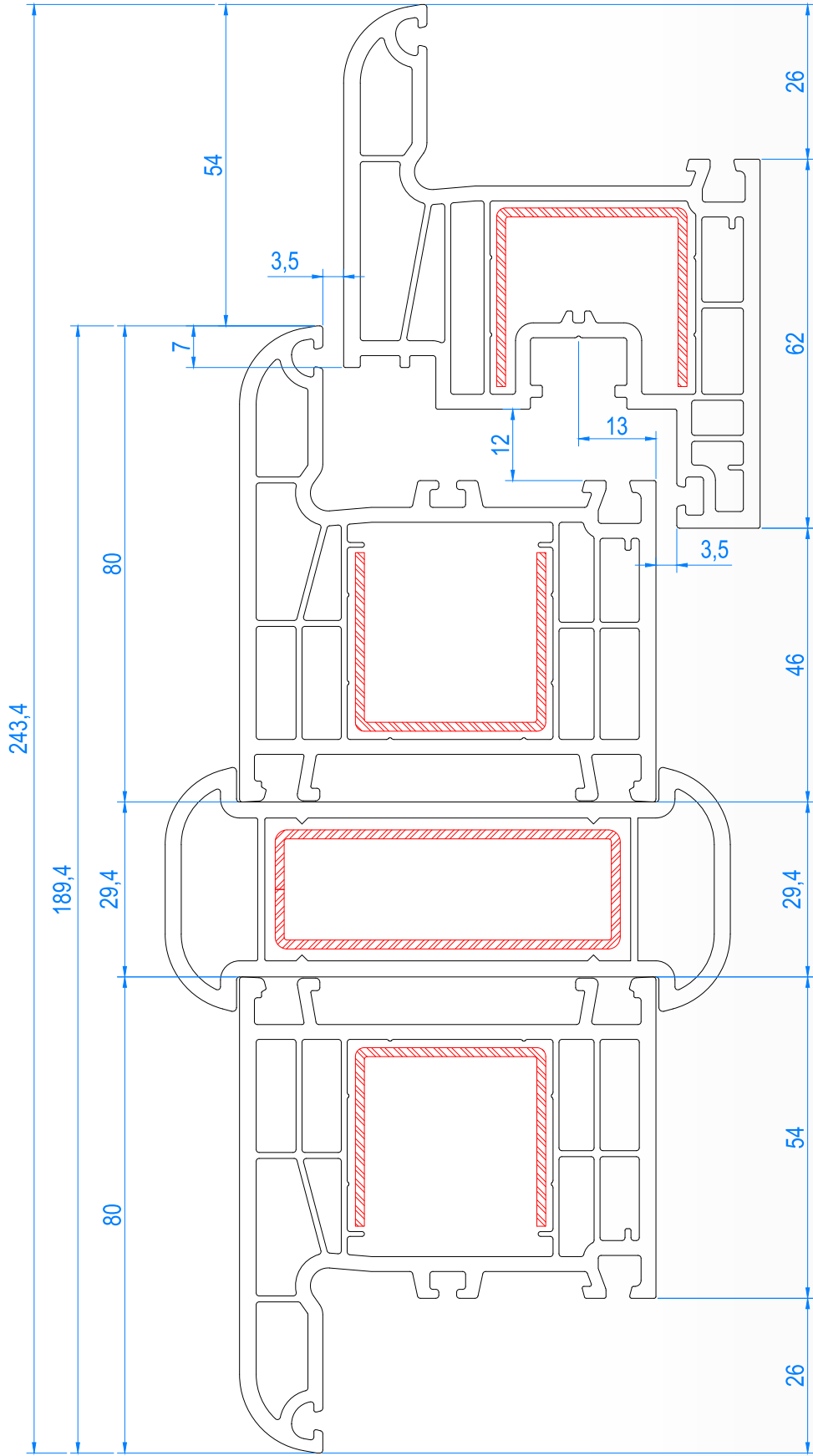
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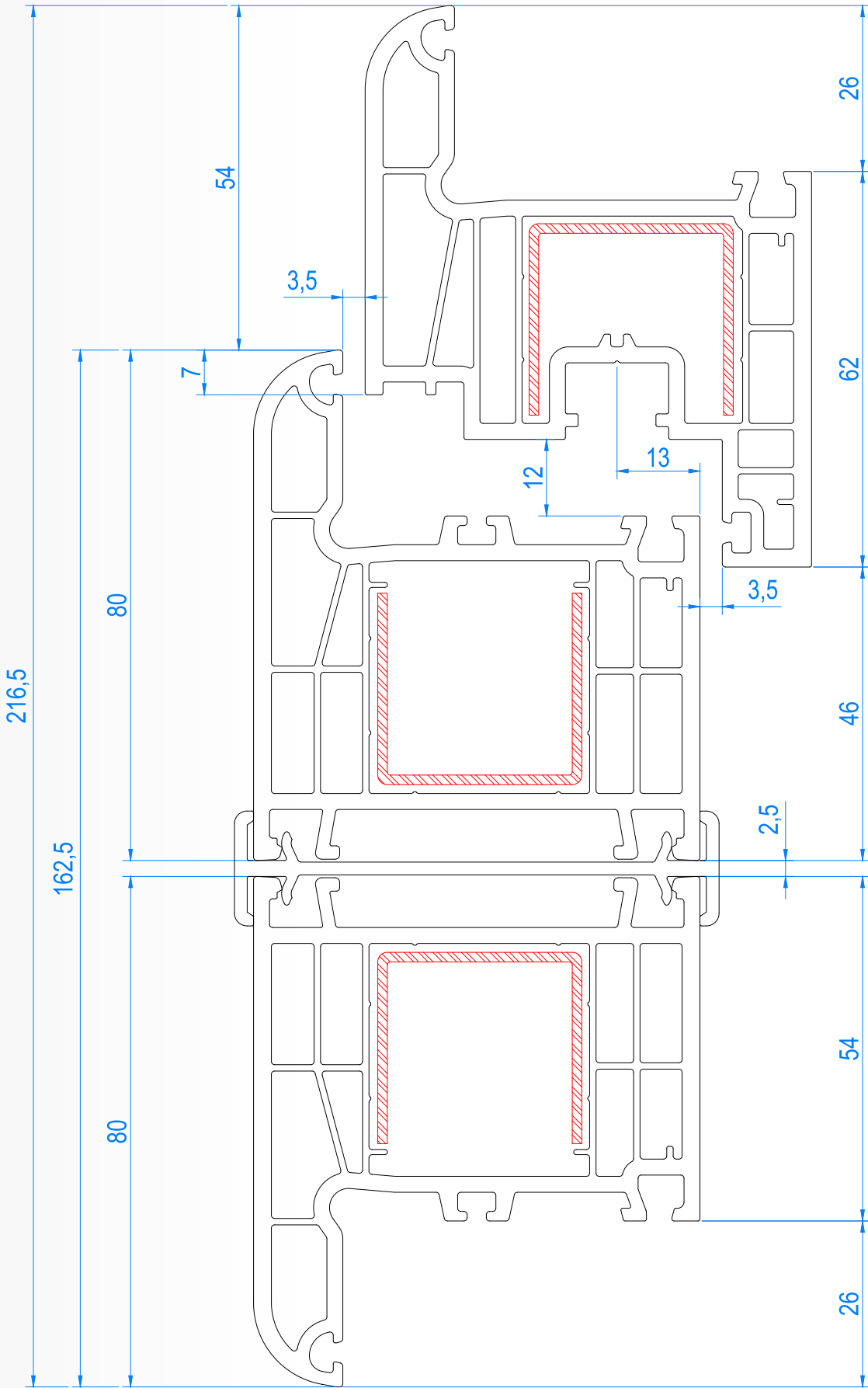
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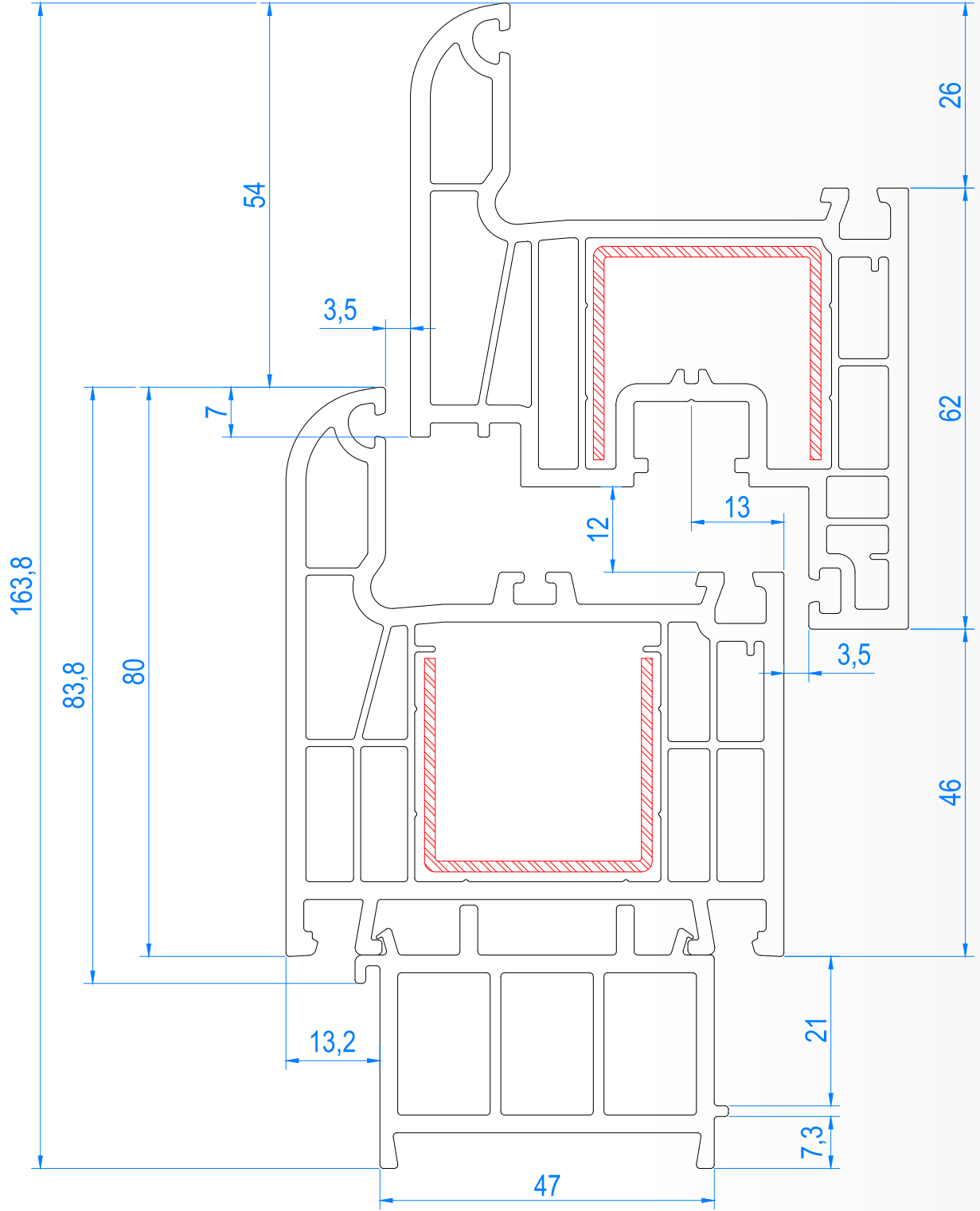
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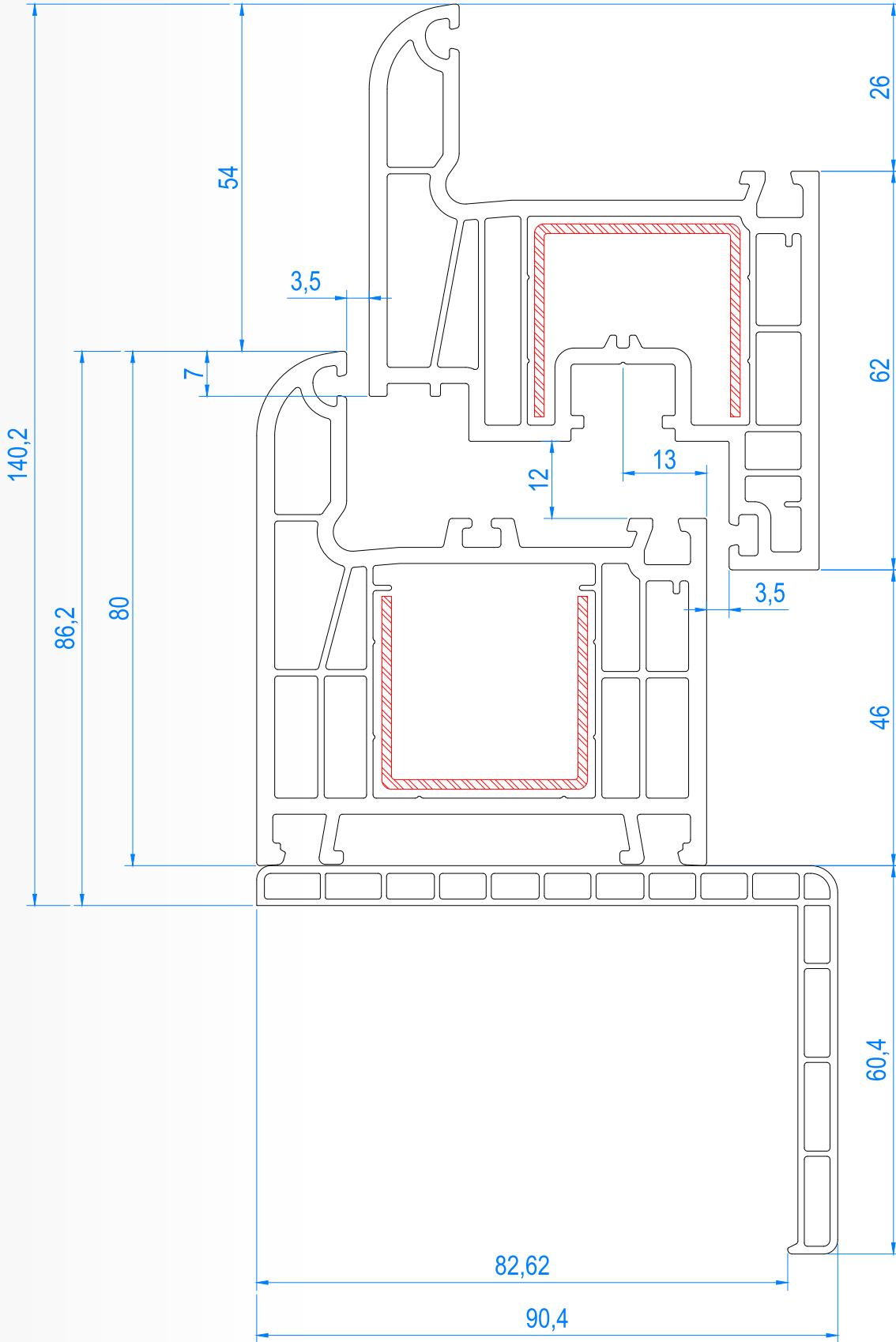
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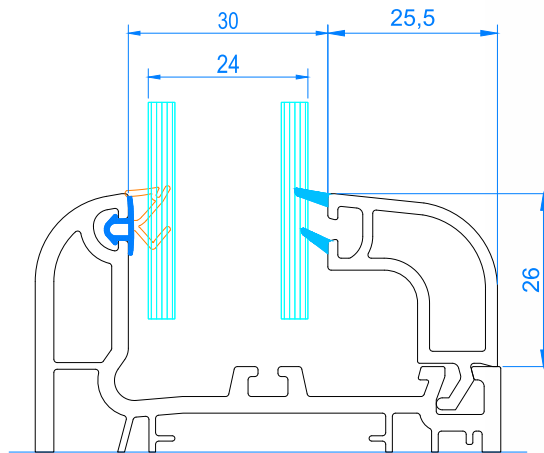
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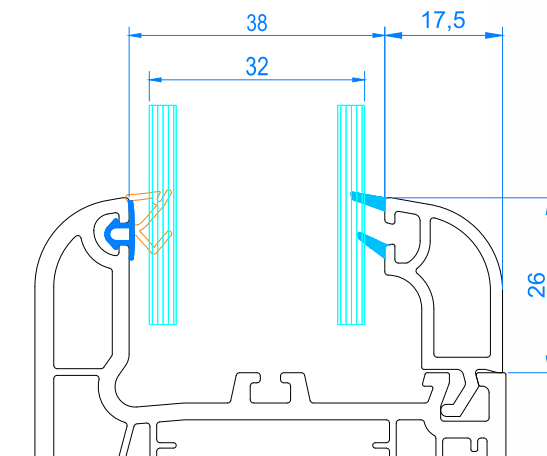
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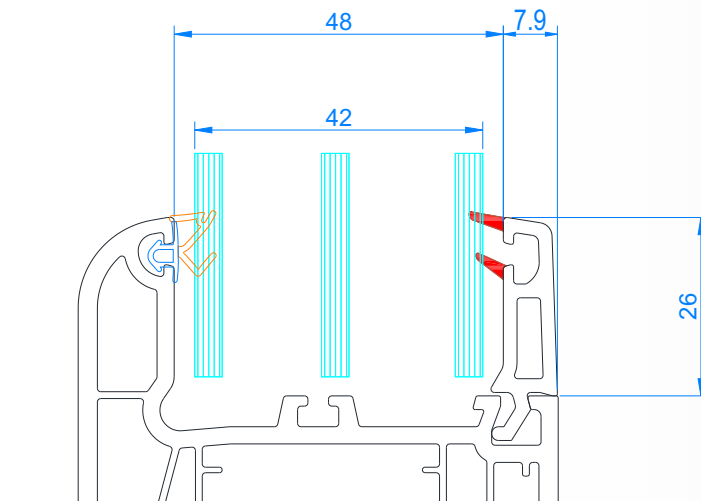
DOUBLE GLAZING BEAD 24MM



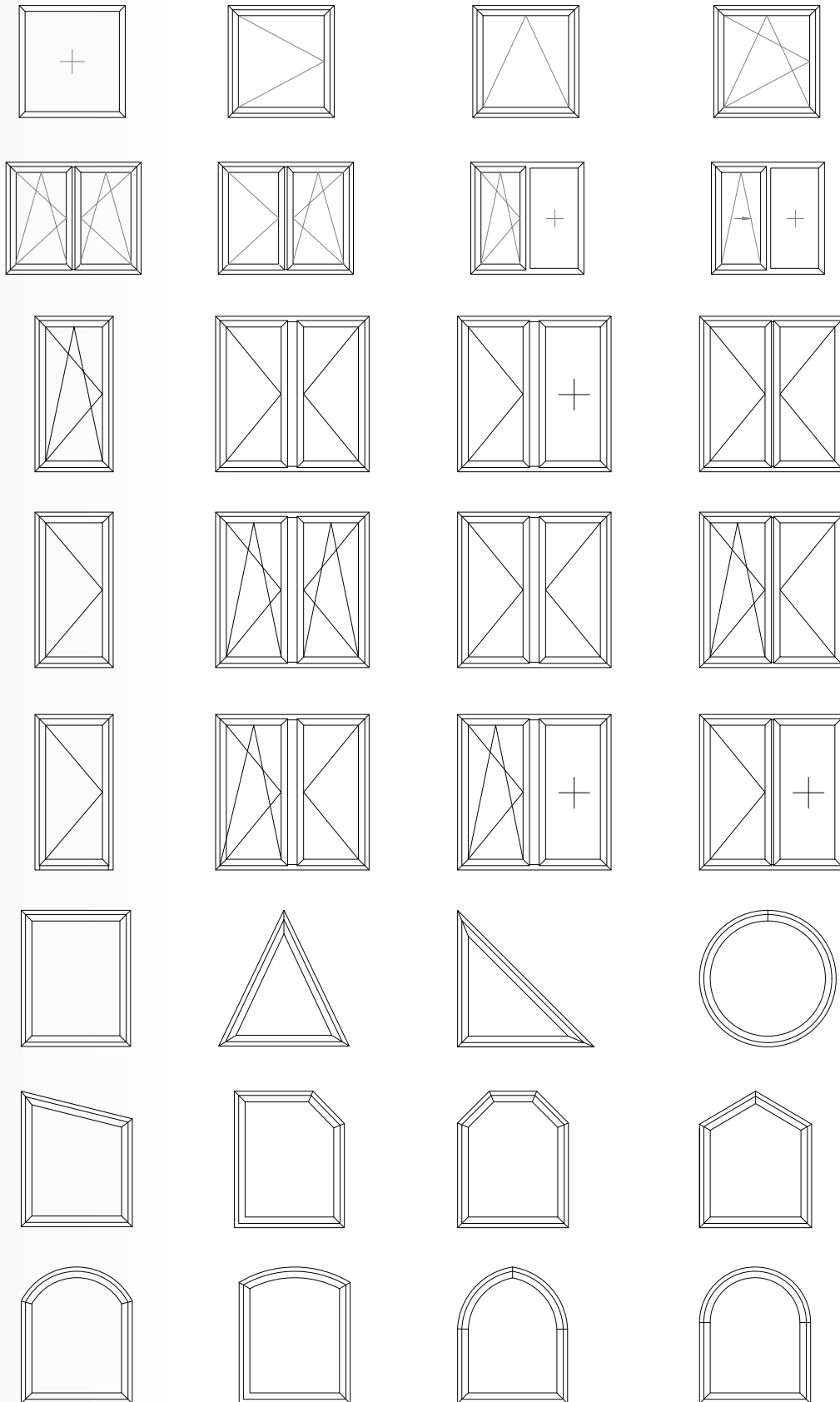
TRIPLE GLAZING BEAD 32MM



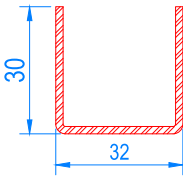
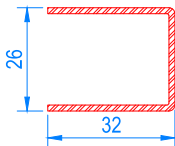
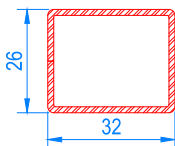
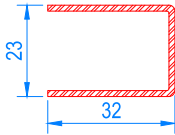
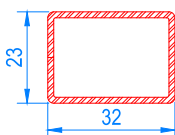

TRIPLE GLAZING BEAD 42MM



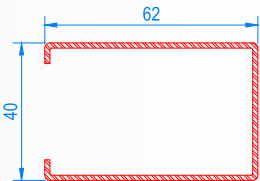
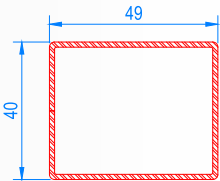
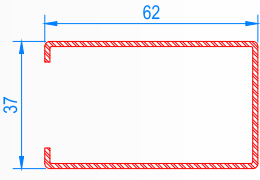
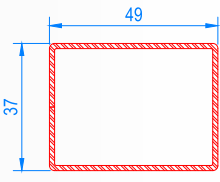
OPENING TYPES



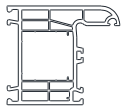
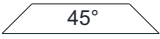


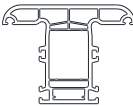
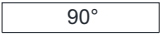

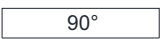
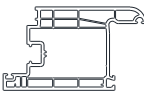
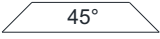
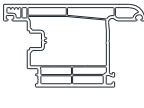
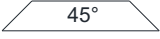


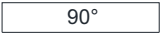

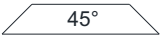
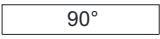


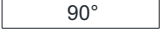



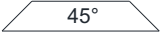
REINFORCEMENT PROFILES

Metall reinforcement profiles	Product Code	Moment of Inertia		
		Thickness (S) (mm)	I _x (cm ⁴)	I _y (cm ⁴)
	CLR77.W890-1	1	0,00	0,00
	CLR77.W890-2	1,25	2,00	1,06
	CLR77.W890-3	1,5	2,36	1,26
	CLR77.W890-4	2,0	3,03	1,63
	CLR77.W892-1	1	0,00	0,00
	CLR77.W892-2	1,25	1,35	1,19
	CLR77.W892-3	1,5	1,58	1,40
	CLR77.W892-4	2,0	2,00	1,81
	CLR77.W891-1	1	0,00	0,00
	CLR77.W891-2	1,25	1,48	2,05
	CLR77.W891-3	1,5	1,72	2,38
	CLR77.W891-4	2,0	2,15	3,00
	CLR77.W898-1	1	0,00	0,00
	CLR77.W898-2	1,25	1,04	1,14
	CLR77.W898-3	1,5	1,20	1,34
	CLR77.W898-4	2,0	1,51	1,73
	CLR77.W900-1	1	0,00	0,00
	CLR77.W900-2	1,25	1,12	1,87
	CLR77.W900-3	1,5	1,29	2,17
	CLR77.W900-4	2,0	1,61	2,73
	CLR77.W899-1	1	0,00	0,00
	CLR77.W899-2	1,25	1,36	7,34
	CLR77.W899-3	1,5	1,85	8,68
	CLR77.W899-4	2,0	1,99	11,24

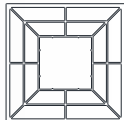
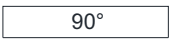



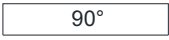

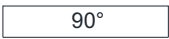

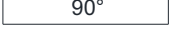

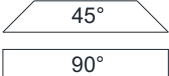



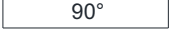

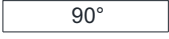

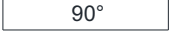
REINFORCEMENT PROFILES

Metall reinforcement profiles	Product Code	Moment of Inertia		
		Thickness (s) (mm)	I _x (cm ⁴)	I _y (cm ⁴)
	CLR77.W896-1	1	0,00	0,00
	CLR77.W896-2	1,25	9,97	6,68
	CLR77.W896-3	1,5	11,47	7,82
	CLR77.W896-4	2,0	14,36	9,96
	CLR77.W897-1	1	0,00	0,00
	CLR77.W897-2	1,25	7,75	5,67
	CLR77.W897-3	1,5	9,10	6,65
	CLR77.W897-4	2,0	11,70	8,52
	CLR77.W894-1	1	0,00	0,00
	CLR77.W894-2	1,25	9,71	5,64
	CLR77.W894-3	1,5	11,47	6,59
	CLR77.W894-4	2,0	13,99	8,39
	CLR77.W895-1	1	0,00	0,00
	CLR77.W895-2	1,25	7,32	4,74
	CLR77.W895-3	1,5	8,59	5,56
	CLR77.W895-4	2,0	11,03	7,11

PROFILE CUTTING ANGLES

Profile code	Drawing	Cutting angle (45°/90°)	Material	Description
PTG.70.F0001			PVC	Frame profile
PTG.70.V0011			PVC	Sash profile
PTG.70.M0001			PVC	Mullion profile
PTG.70.A0011			PVC	Movable mullion profile
PTG.70.V0012			PVC	Inward opening door sash profile
PTG.70.V0013			PVC	Outward opening door sash profile
CLR77.W890 CLR77.W891		 	Steel	Reinforcement profile Box - U
CLR77.W892 CLR77.W891		 	Steel	Reinforcement profile Box - U
CLR77.W898		 	Steel	Reinforcement profile Box - U
PTG.70.G0001			PVC	Triple glazing bead 32mm
PTG.70.G0002			PVC	Double glazing bead 24mm

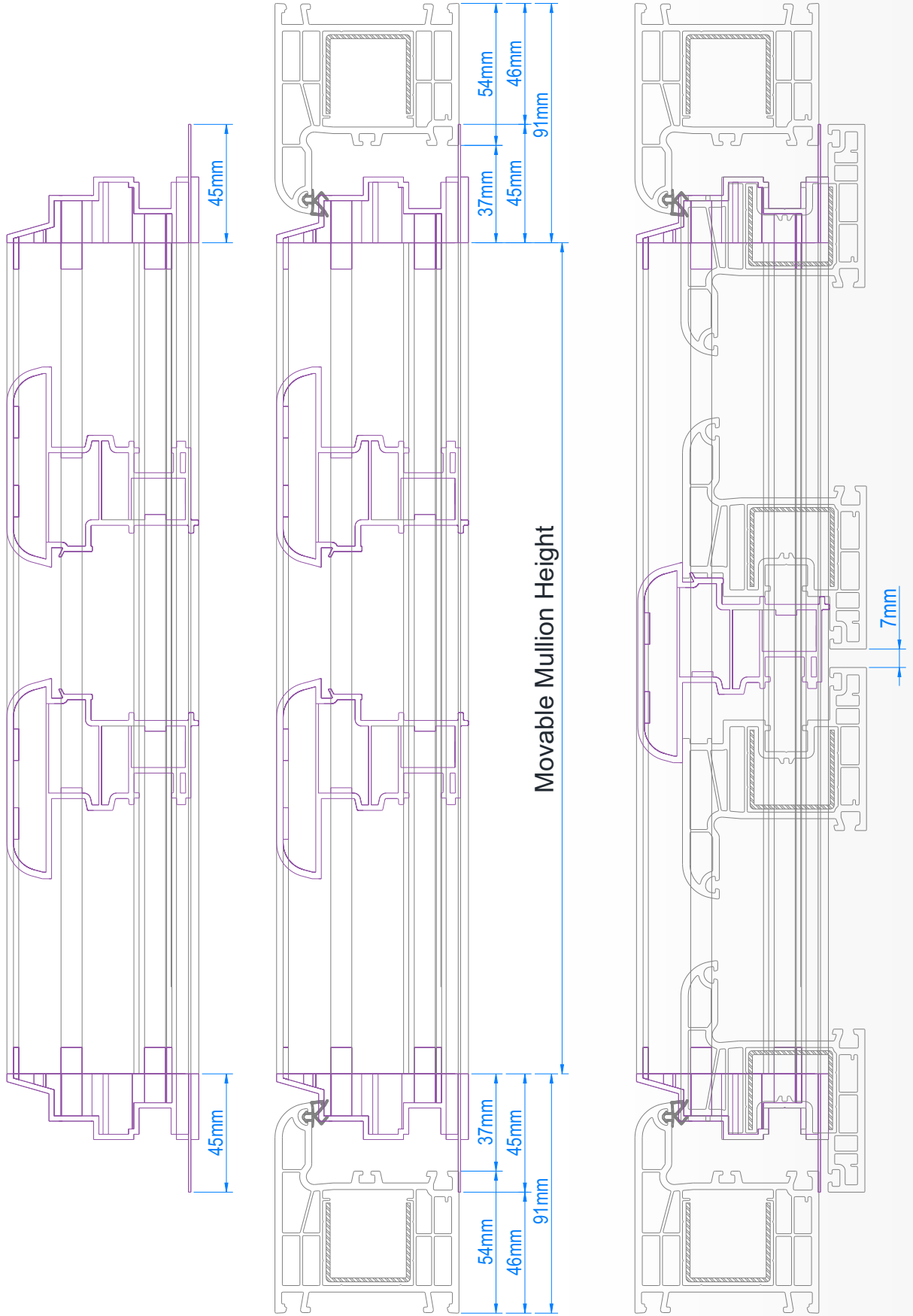
REINFORCEMENT PROFILES

Profile code	Drawing	Cutting angle (45°/90°)	Material	Description
PTG.80.A0003			PVC	Corner Box profile
PT3.60.A0006			PVC	Corner Pipe Profile
PTG.80.A0002			PVC	Angled corner adapter
PTG.70.A0004			PVC	Wide coupling profile
PTG.70.A0003			PVC	Narrow coupling profile
CLR77.W896 CLR77.W897			Steel	Reinforcement profile Box - U
CLR77.W894 CLR77.W895			Steel	Reinforcement profile Box - U
CLR77.W890 CLR77.W891			Steel	Reinforcement profile Box - U
CLR77.W899			Steel	Reinforcement profile Box
CLR77.W890 CLR77.W891			Steel	Reinforcement profile Box - U

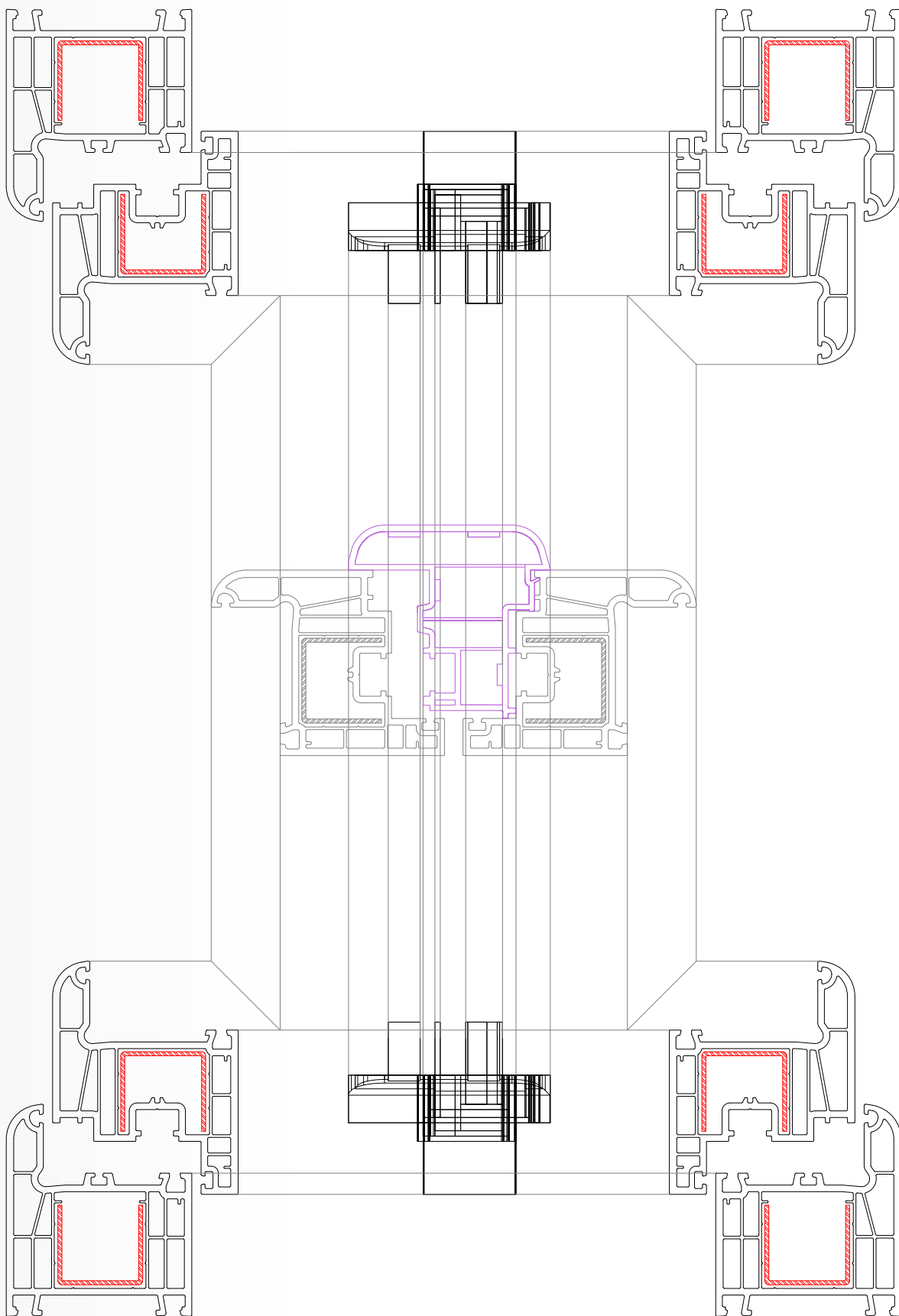
GASKET USAGE TABLE

1000004148 1000004568		Black Grey	TPV - TPE	Universal Frame, sash, mullion glass gasket
1000000979 1000000980		Black Grey	TPV - TPE	Concealed sash gasket
1000001002 1000000978		Black Grey	TPV - TPE	Laminate application slat gasket
EPDM5108-7000			EPDM	Middle gasket

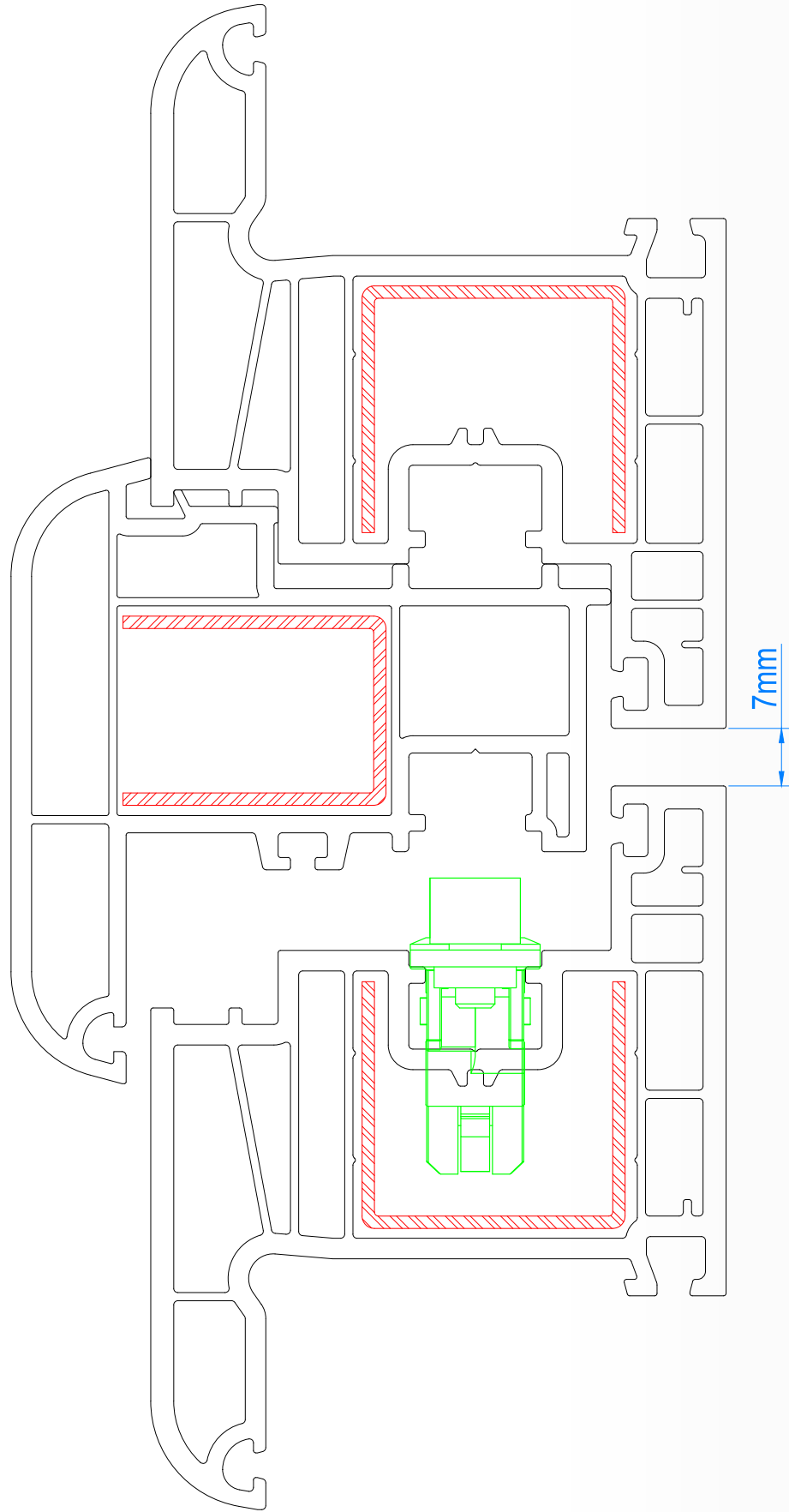
MOVABLE MULLION PROFILE APPLICATIONS



MOVABLE MULLION PROFILE APPLICATIONS

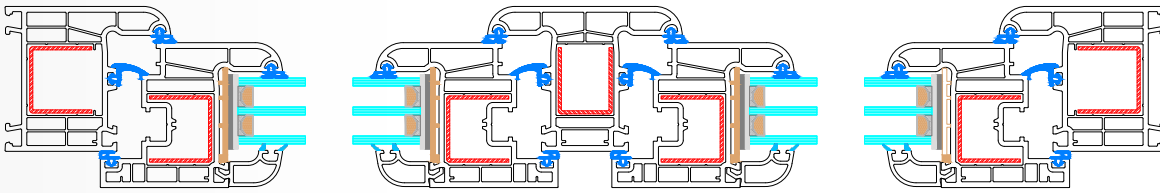


MOVABLE MULLION PROFILE APPLICATIONS

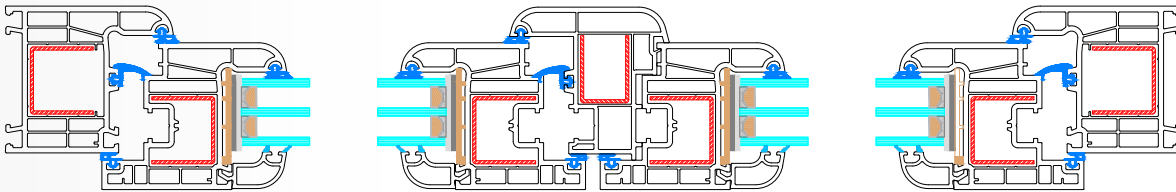


DETAILED SECTION APPLICATIONS

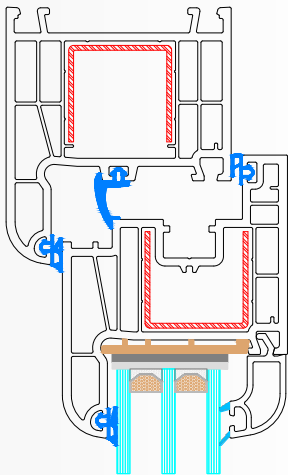
AA - Detail



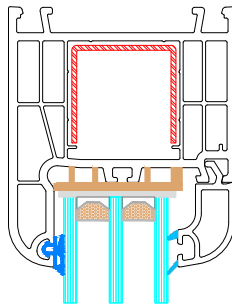
CC - Detail



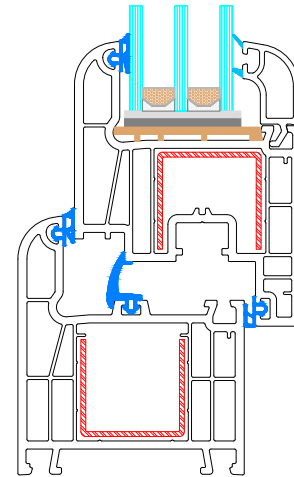
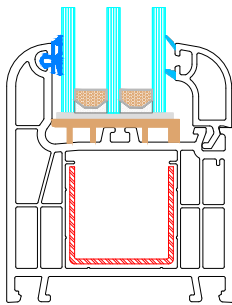
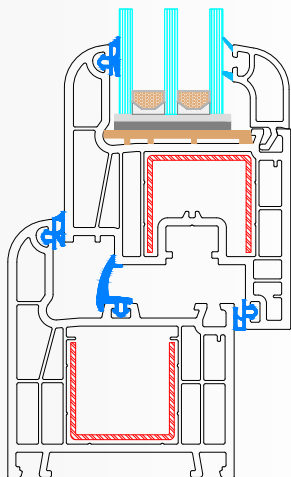
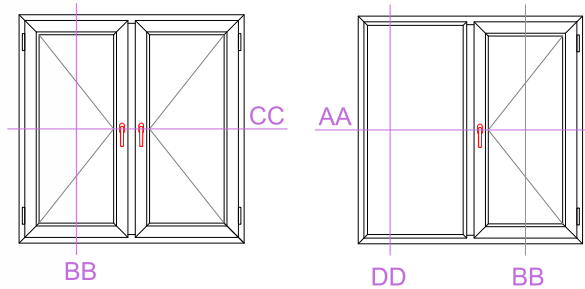
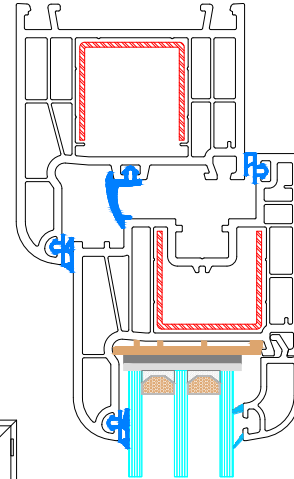
BB - Detail



DD - Detail

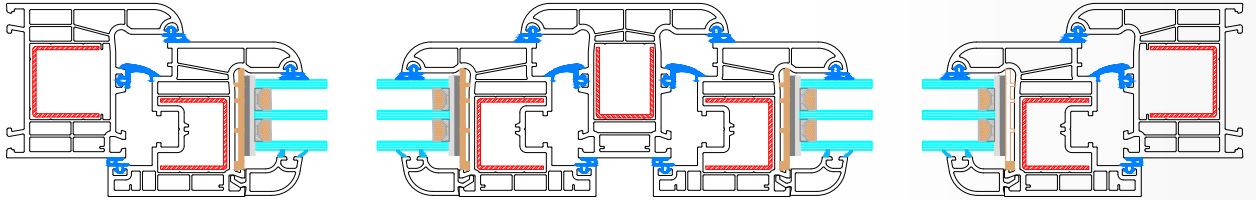


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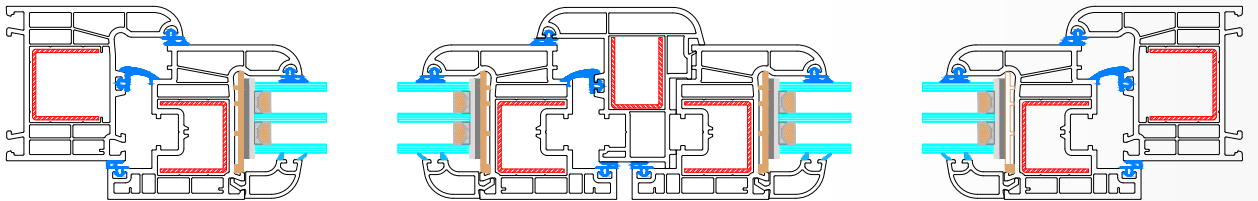


DETAILED SECTION APPLICATIONS

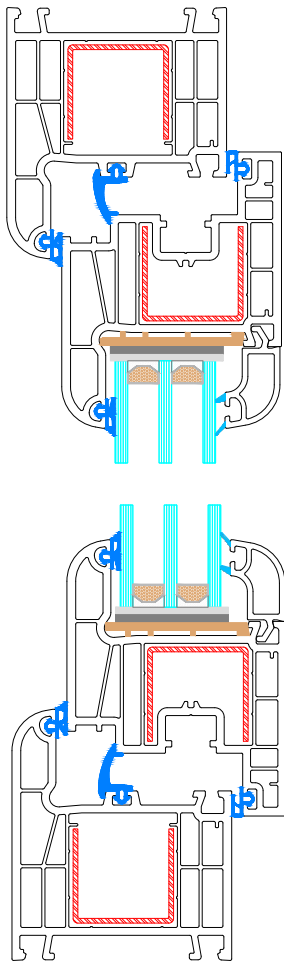
AA - Detail



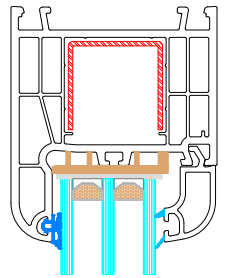
CC - Detail



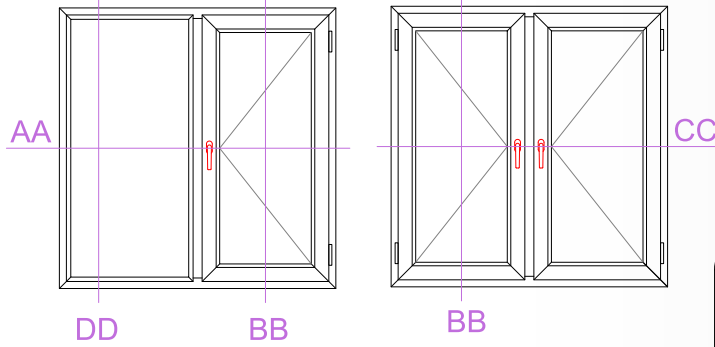
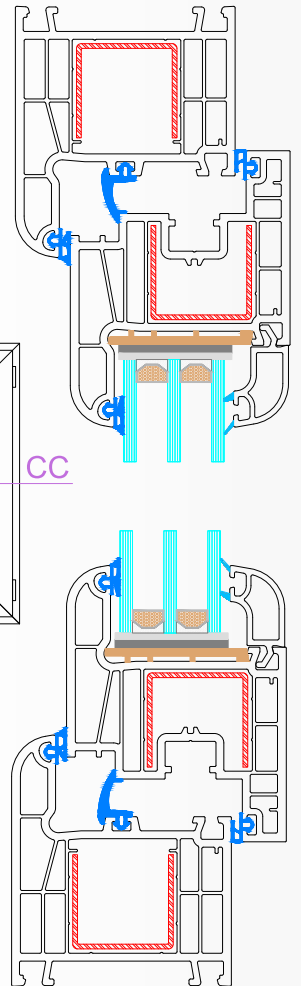
BB - Detail



DD - Detail

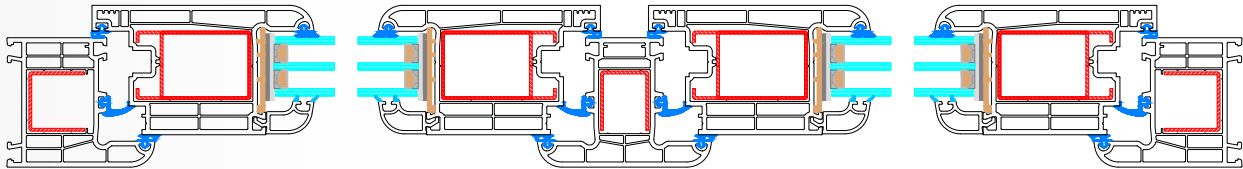


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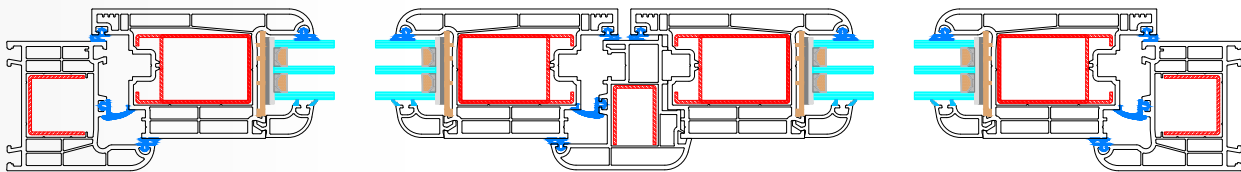


DETAILED SECTION APPLICATIONS

AA - Detail



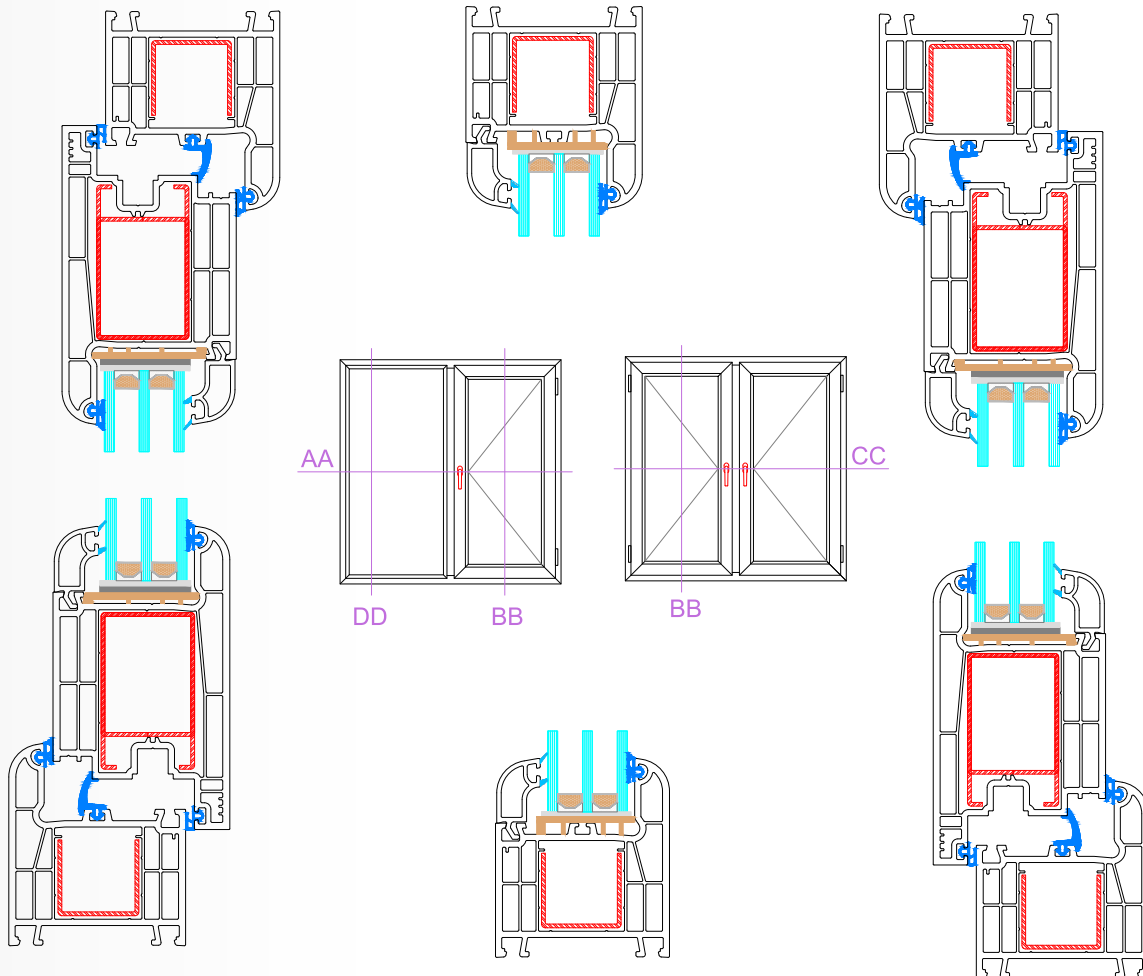
CC - Detail



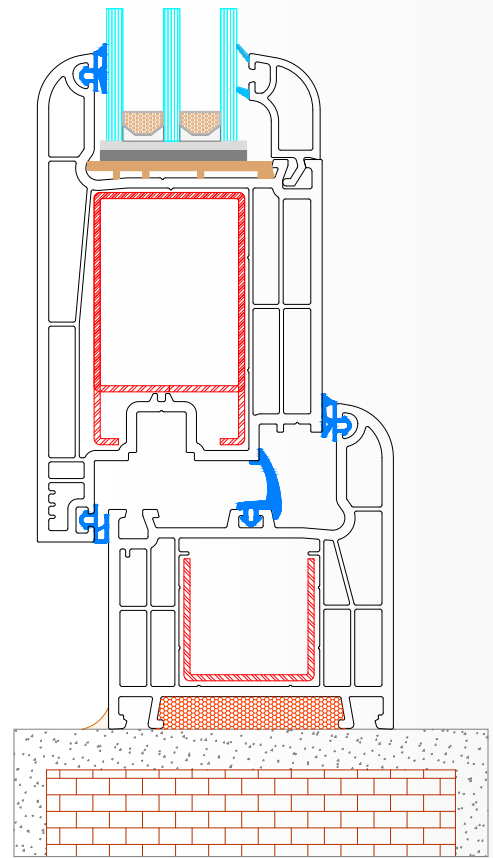
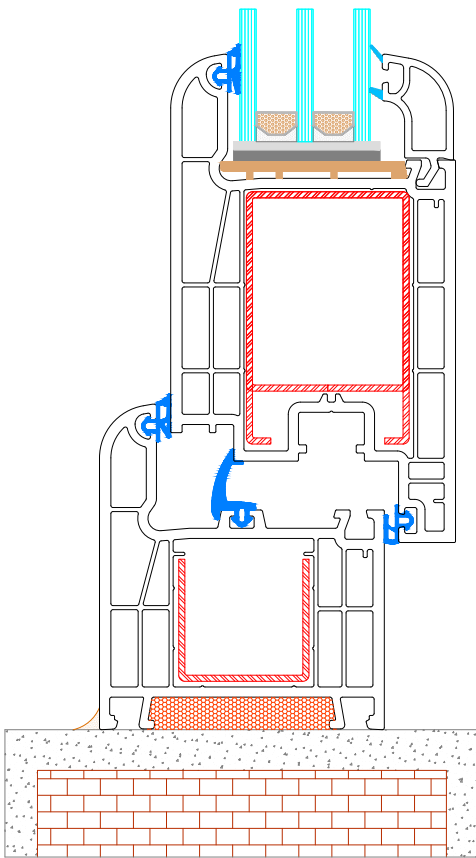
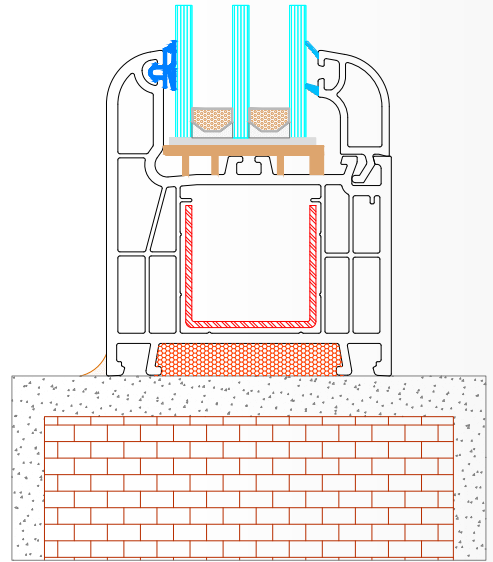
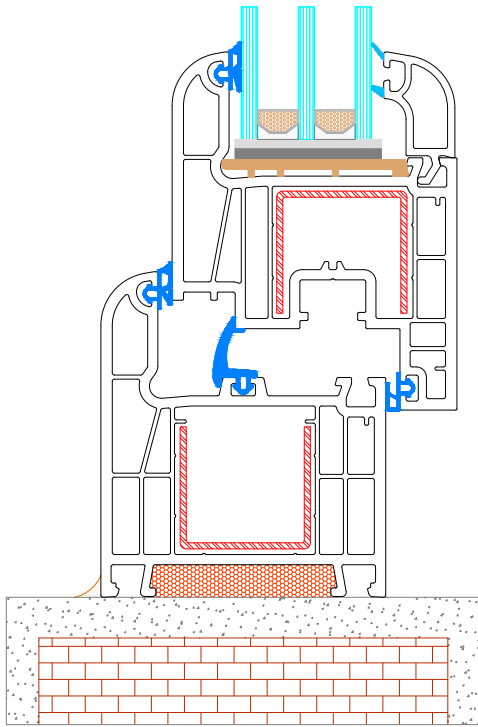
BB - Detail



DD - Detail

BB - Detail

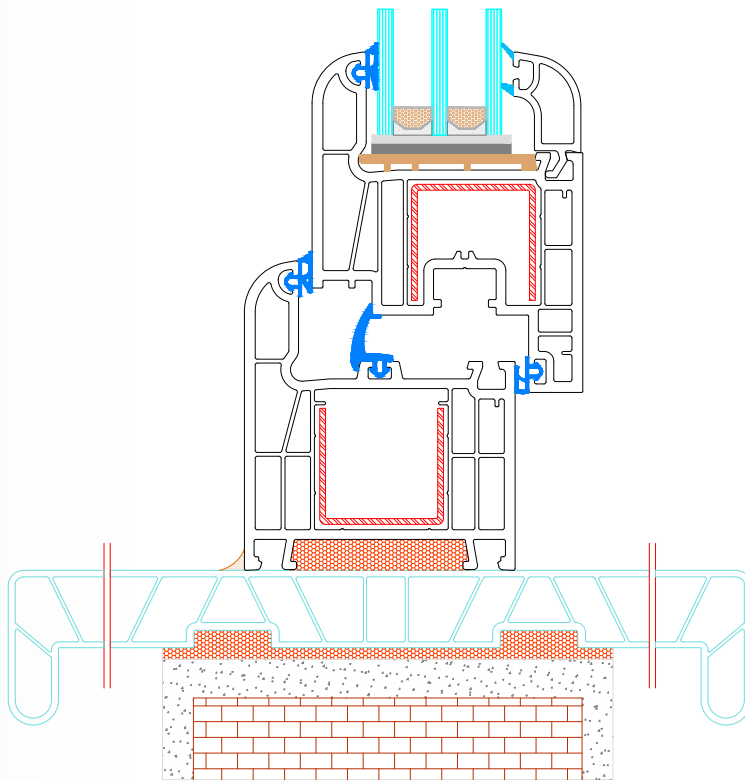
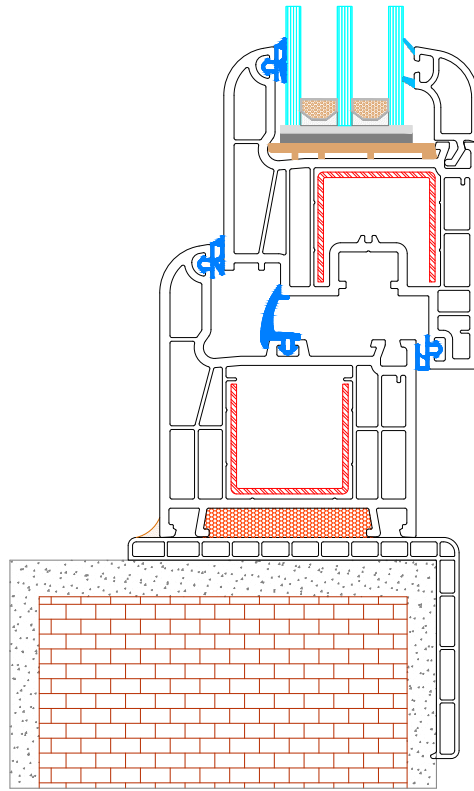


WINDOW MOUNTING APPLICATIONS



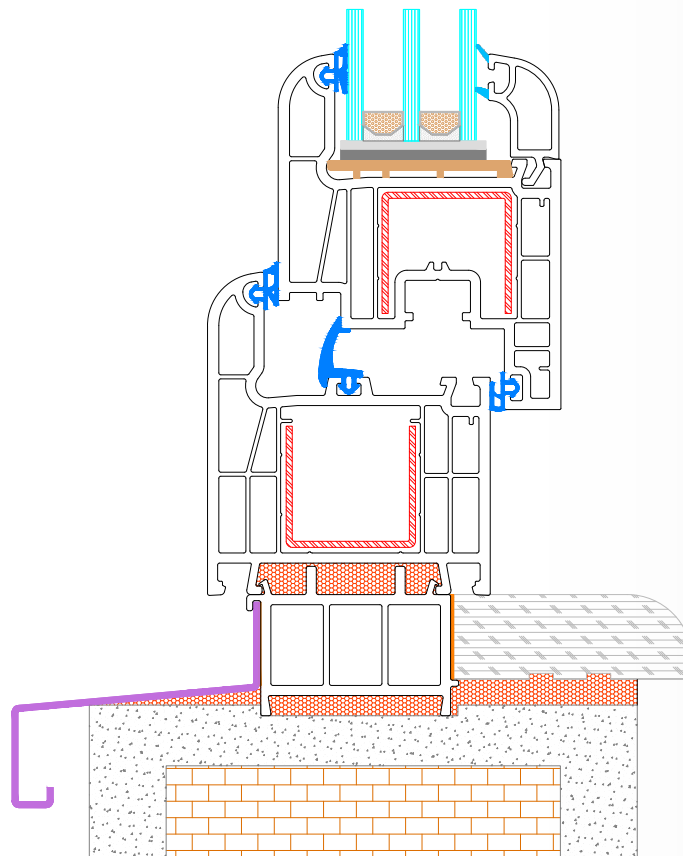
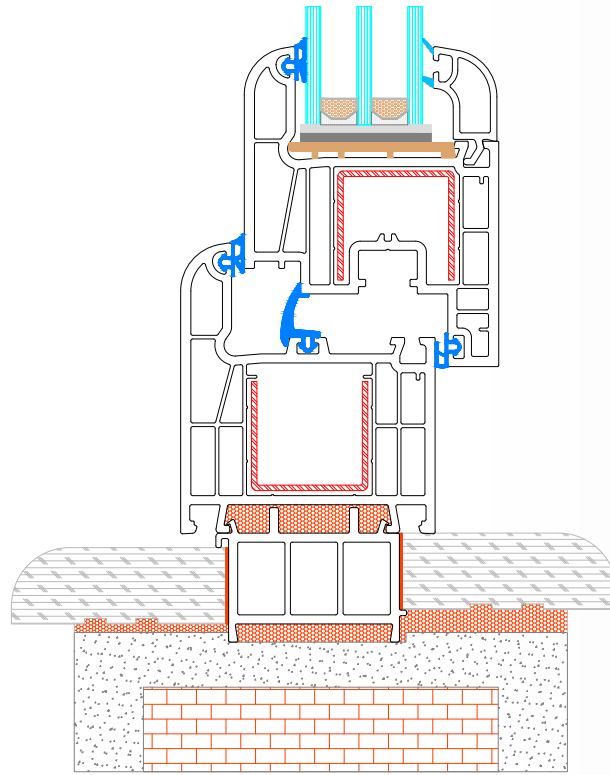
-  Sealing element (silicone sealant)
-  Insulation material (styrofoam, glass wool, foam and cork)



WINDOW MOUNTING APPLICATIONS



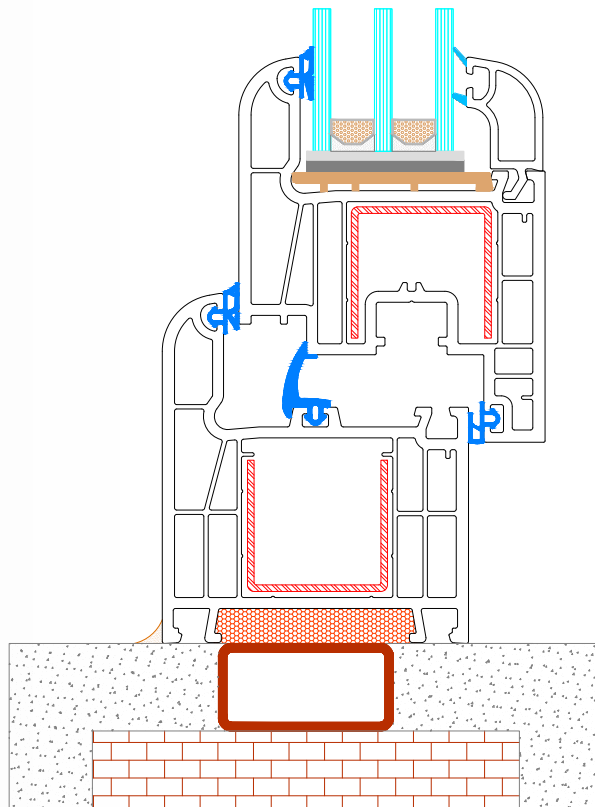
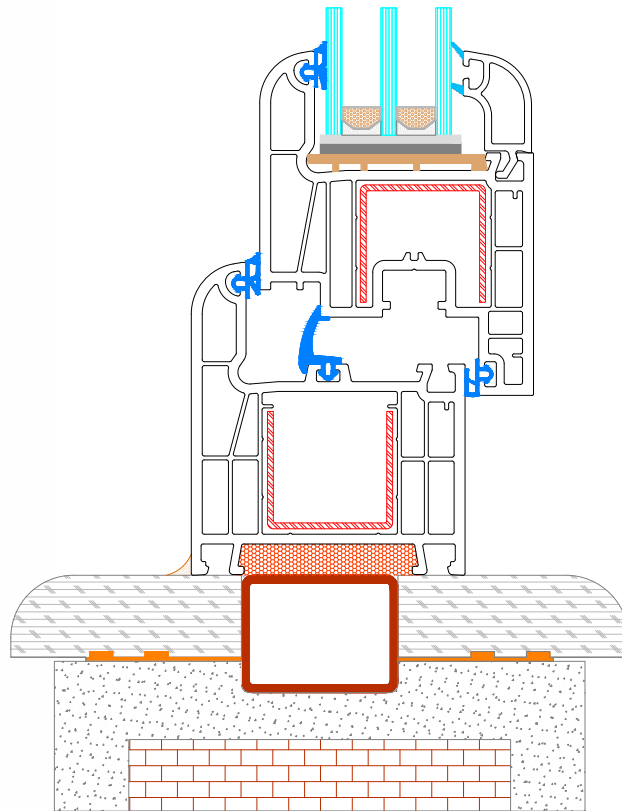
- ▲ Sealing element (silicone sealant)
- Insulation material (styrofoam, glass wool, foam and cork)



WINDOW MOUNTING APPLICATIONS



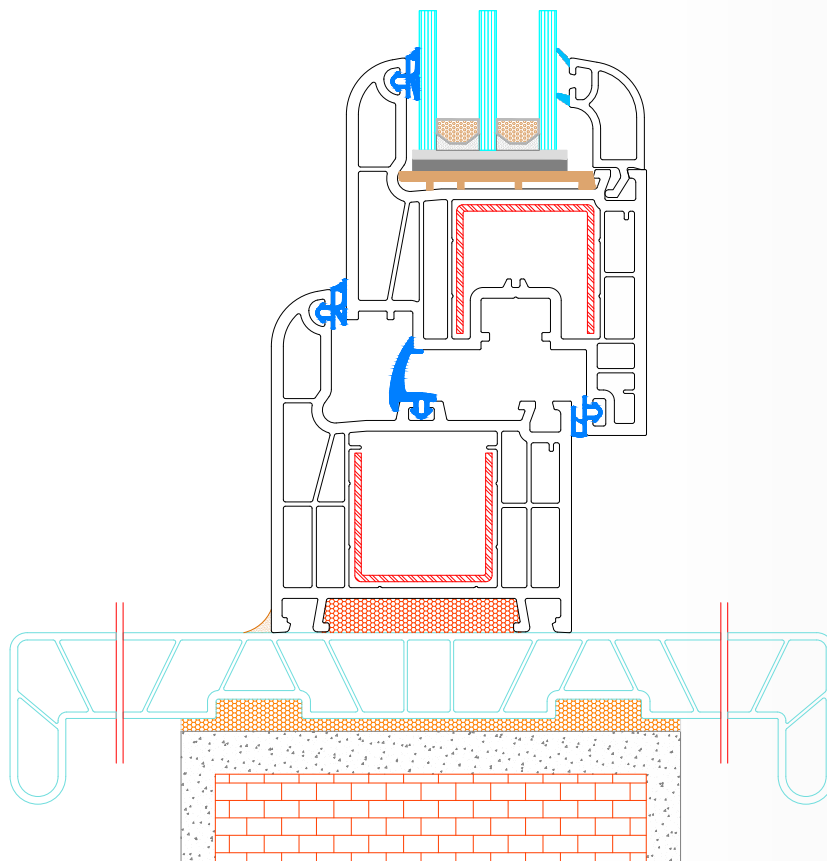
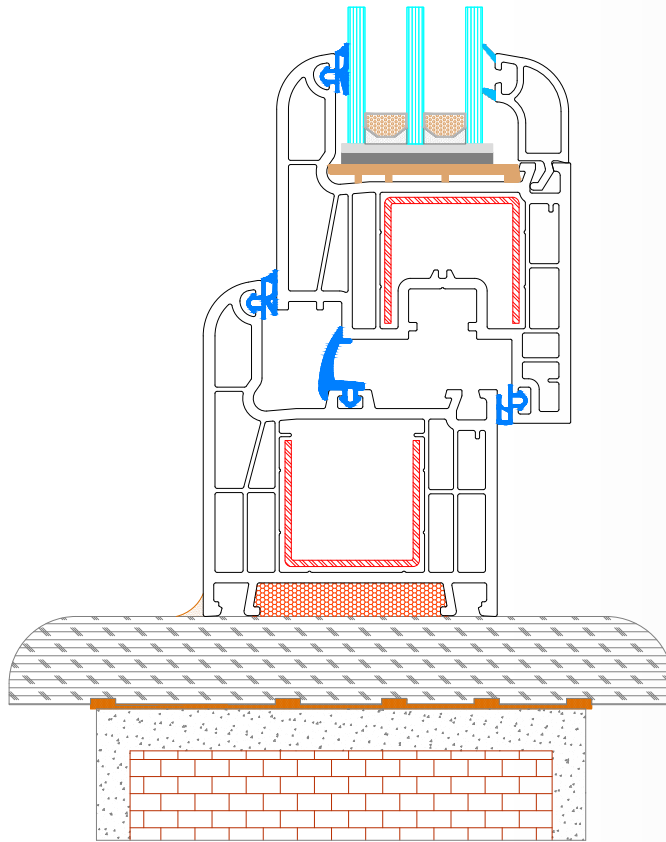
-  Sealing element (silicone sealant)
-  Insulation material (styrofoam, glass wool, foam and cork)



WINDOW MOUNTING APPLICATIONS



-  Sealing element (silicone sealant)
-  Insulation material (styrofoam, glass wool, foam and cork)

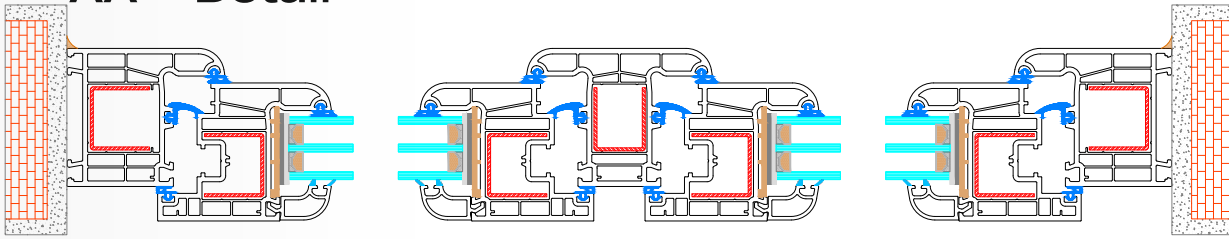
WINDOW MOUNTING APPLICATIONS



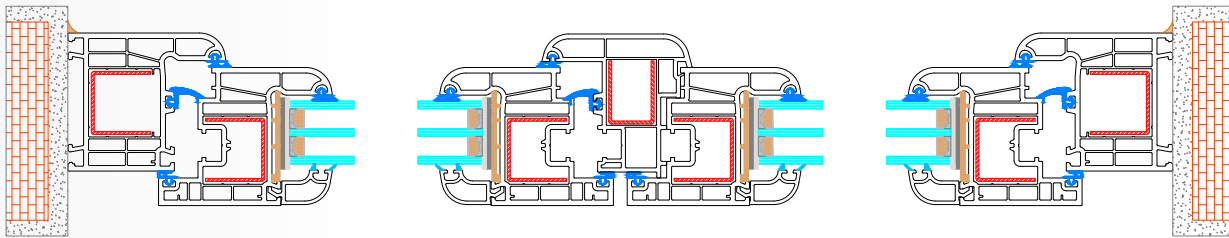
-  Sealing element (silicone sealant)
-  Insulation material (styrofoam, glass wool, foam and cork)

DETAILED SECTION APPLICATIONS

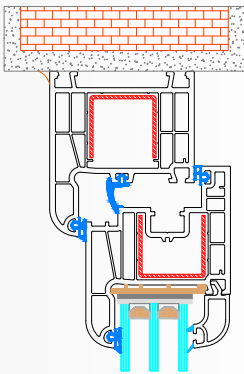
AA - Detail



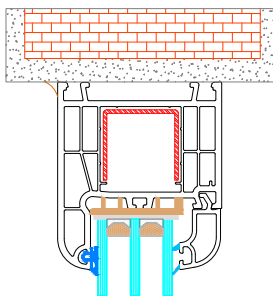
CC - Detail



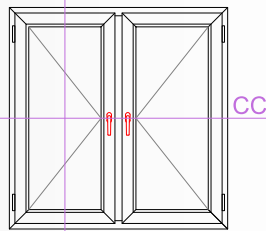
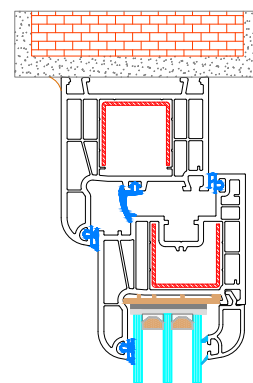
BB - Detail



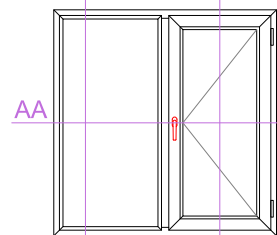
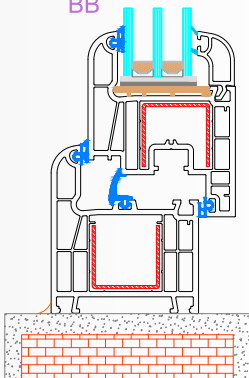
DD - Detail



BB - Detail



BB



DD BB

