



EXPERT WP 6000

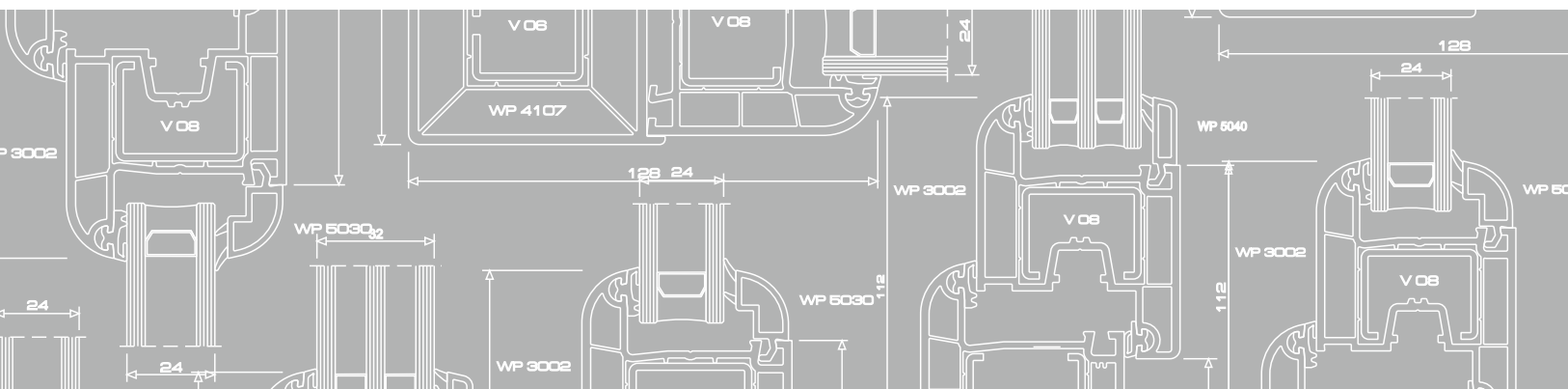


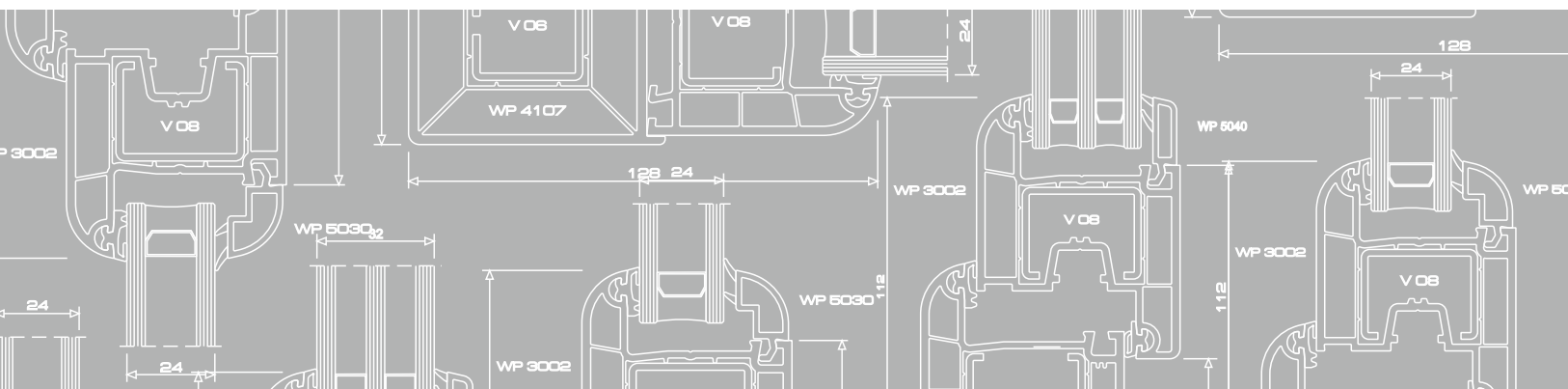
TECHNICAL CATALOGUE

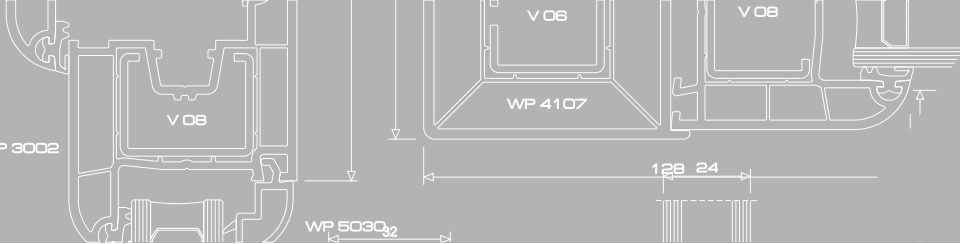
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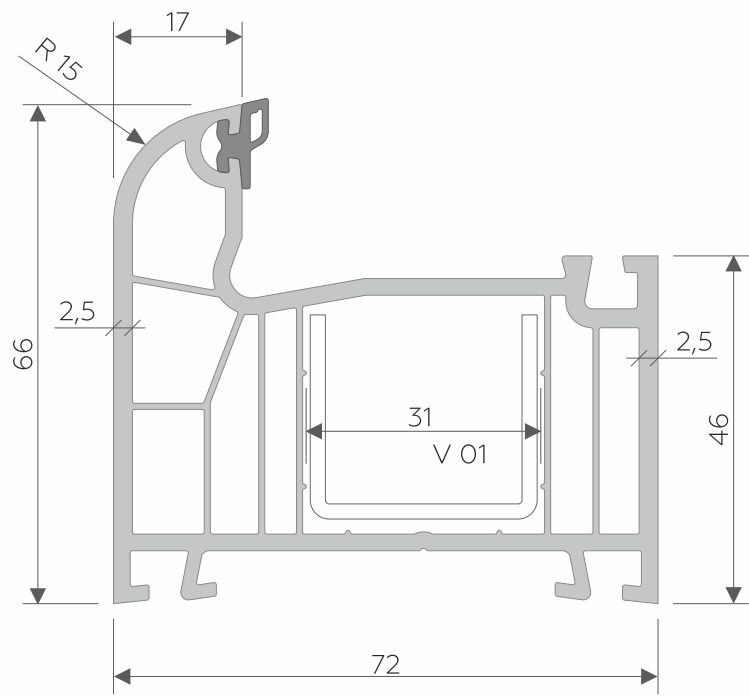
TECHNICAL CATALOGUE PVC SYSTEM EXPERT WP 6000



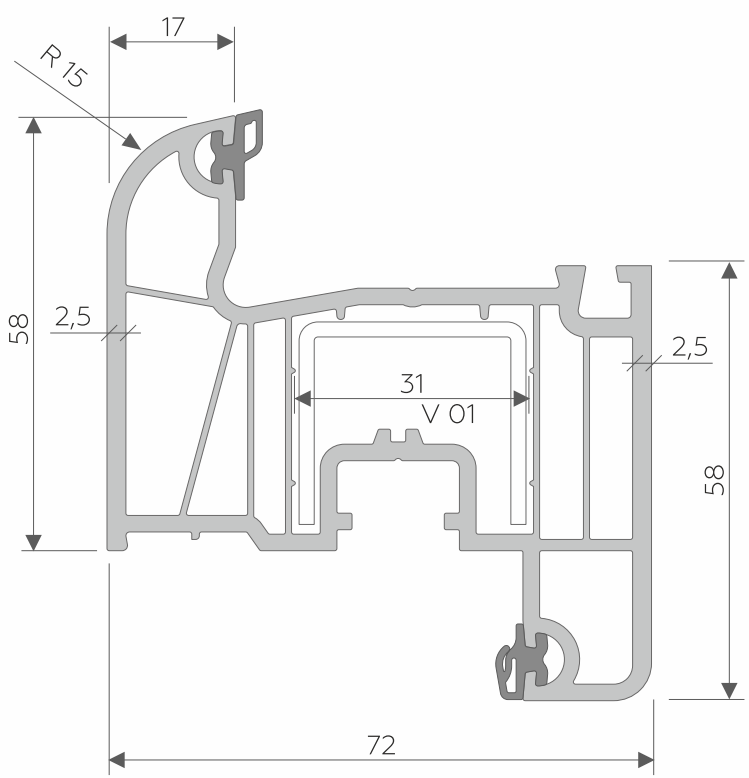




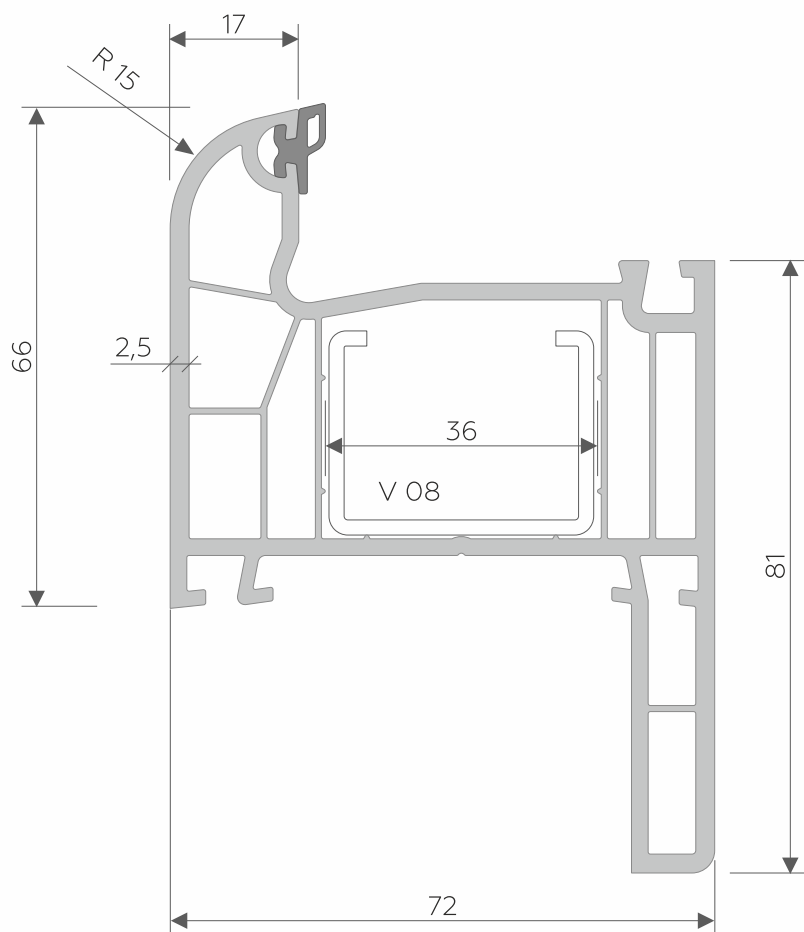
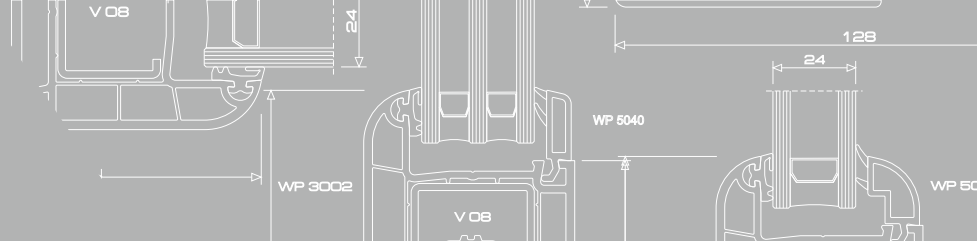
EXPERT WP 6000



Frame profile
WP 6001
EXPERT

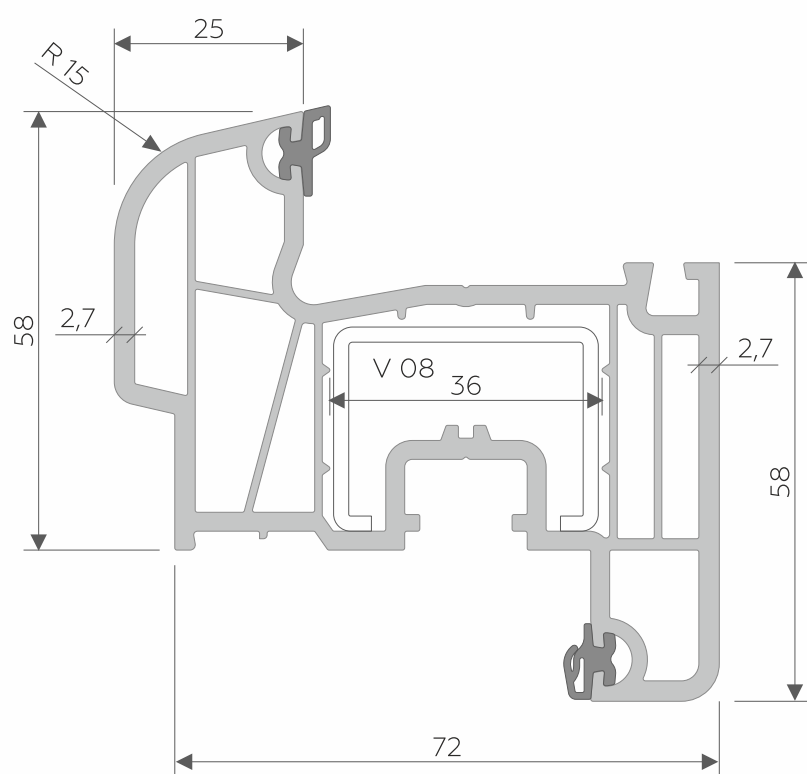


Sash profile
WP 6002
EXPERT



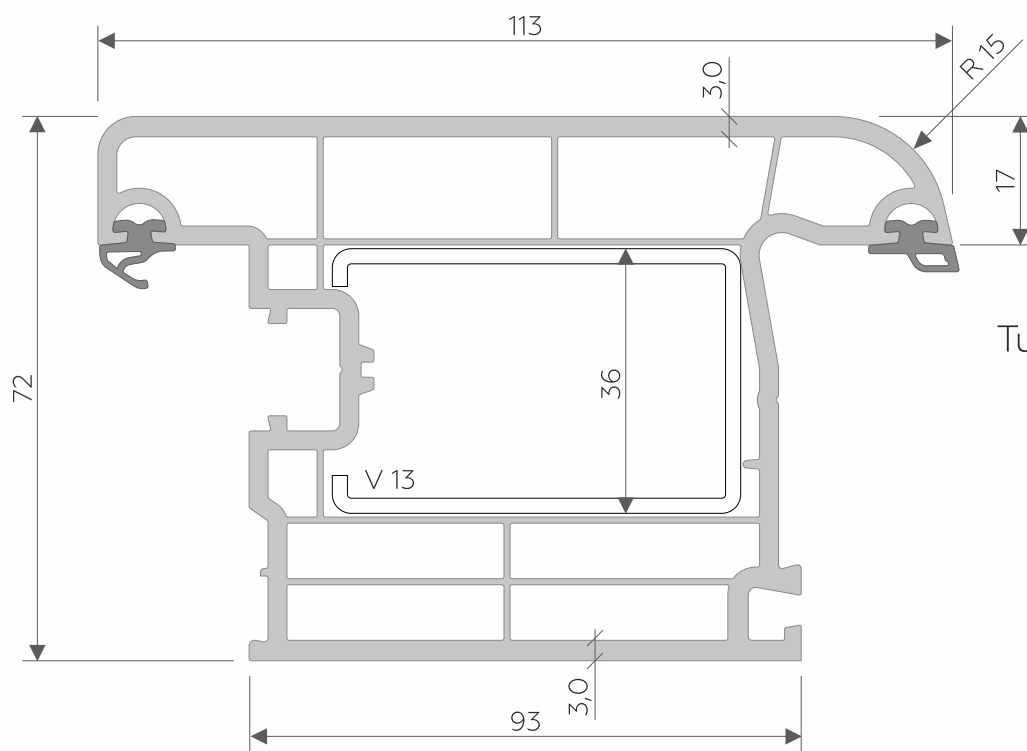
Frame profile

WP 5035
ENERGY



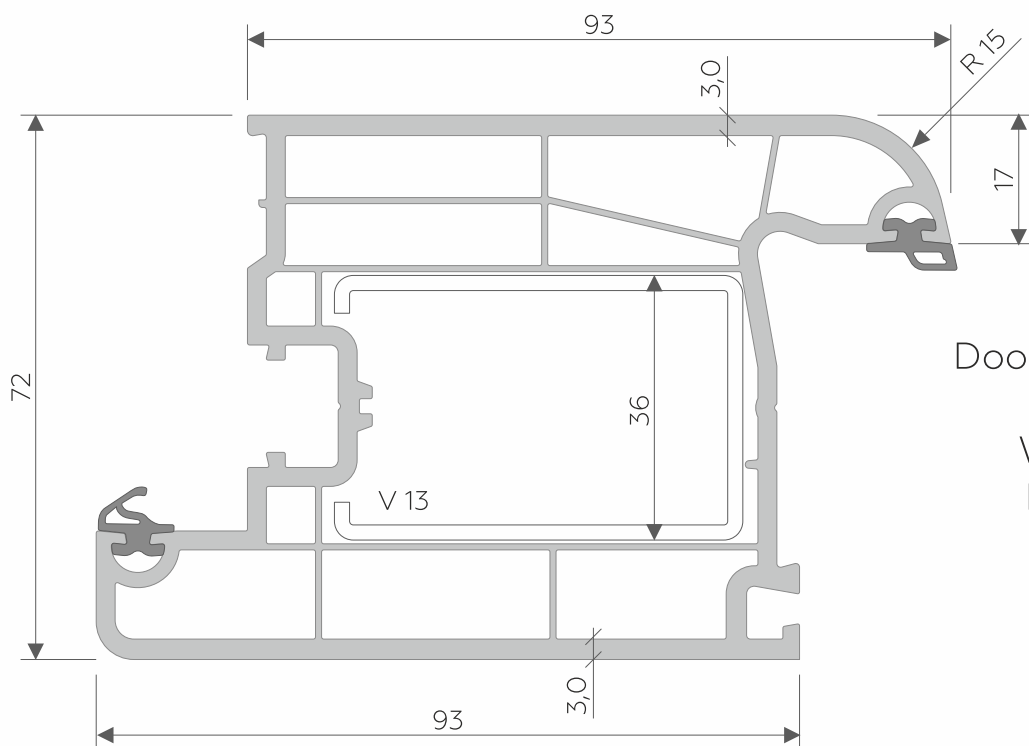
Sash profile

WP 5010
ENERGY



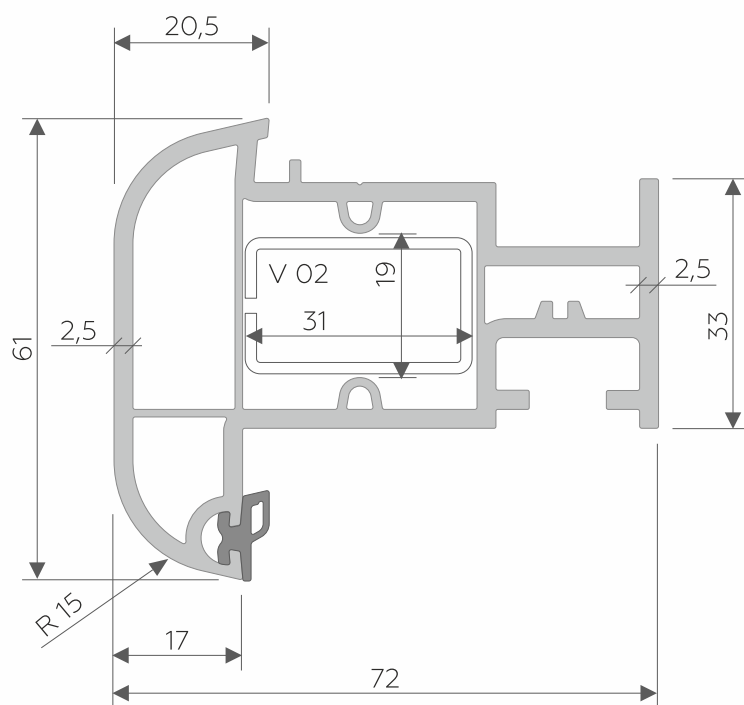
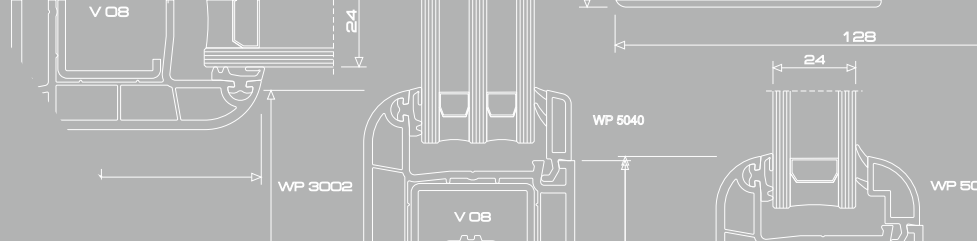
Turned over door
sash profile

WP 5005
ENERGY



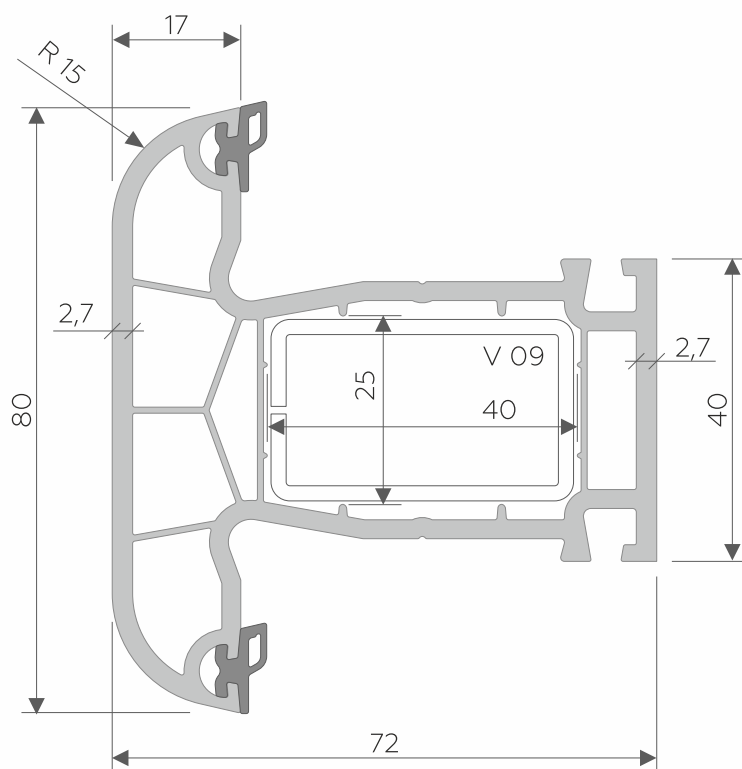
Door sash profile

WP 5004
ENERGY



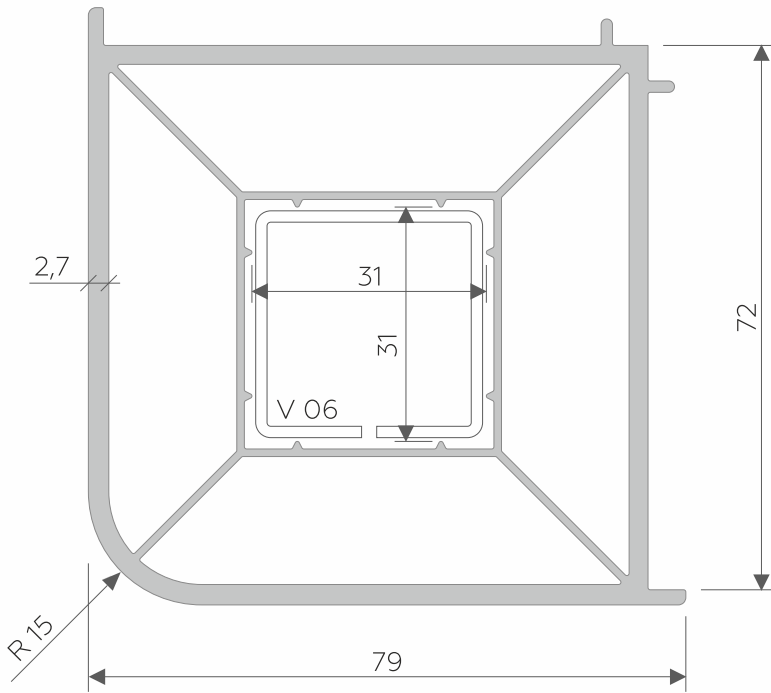
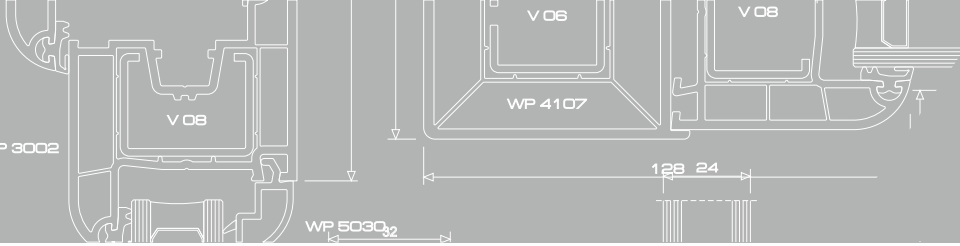
Lap joint profile

WP 5006
ENERGY



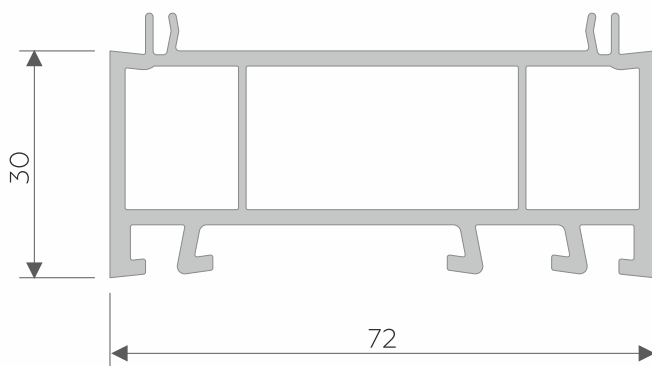
Mullion profile

WP 5003
ENERGY



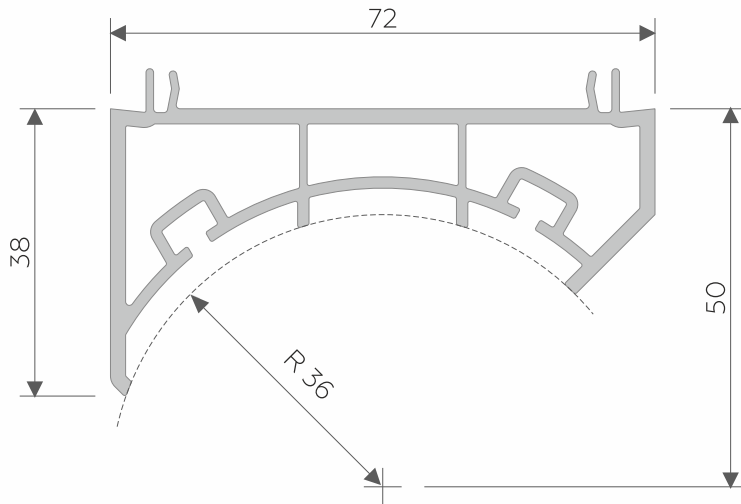
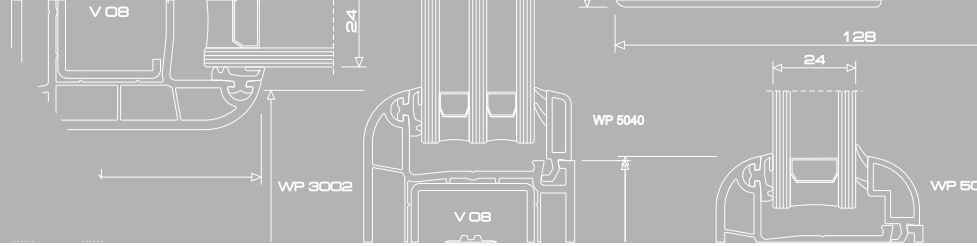
Corner profile 90°

WP 5007
ENERGY



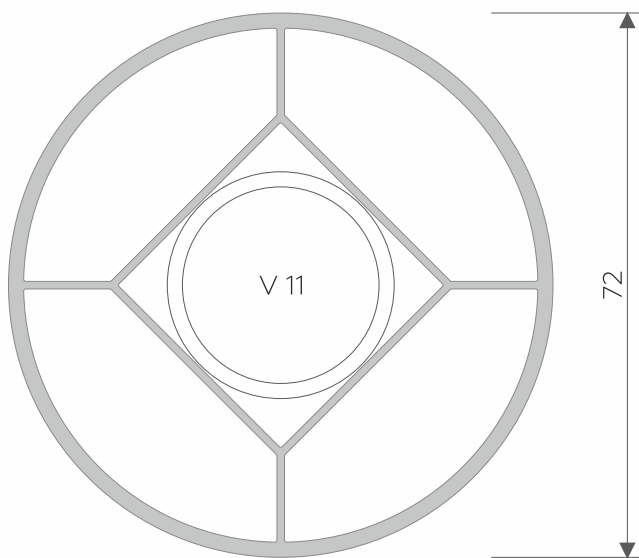
Frame extension

WP 5008
ENERGY



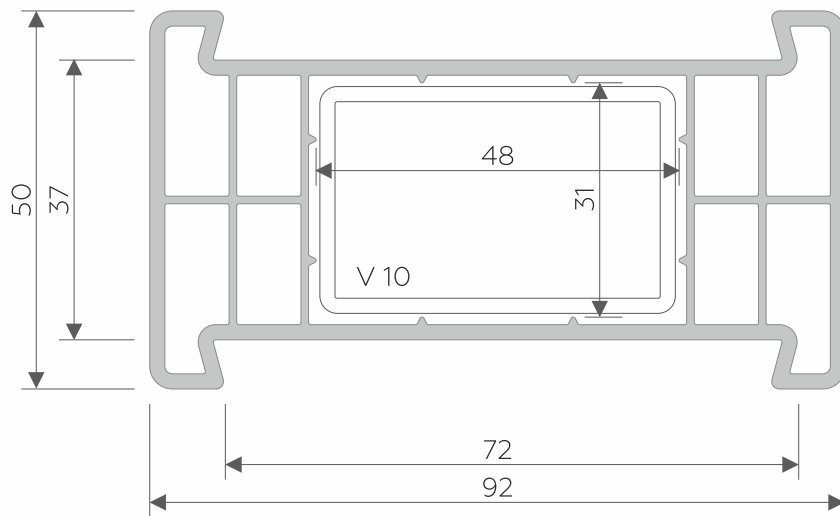
Corner lag profile

WP 5009
ENERGY



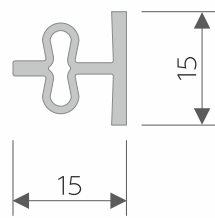
Pipe profile

WP 5011
ENERGY



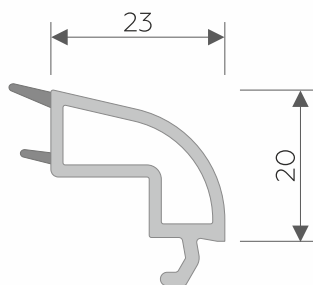
Coupling profile

WP 5013



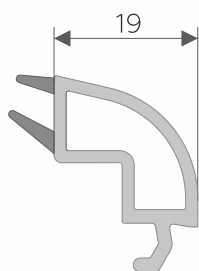
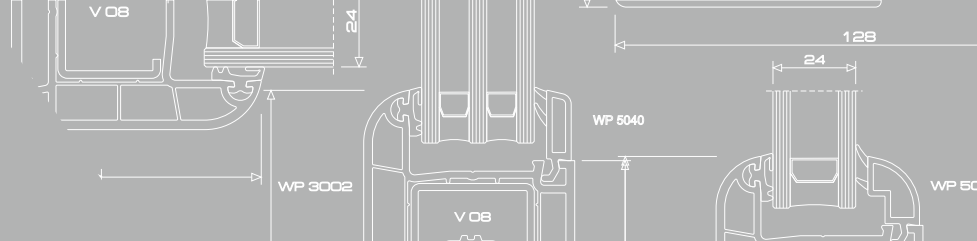
Coupling profile

WP 5012



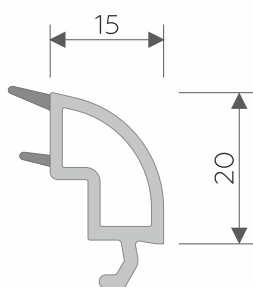
Glass bead 24 mm

WP 5020



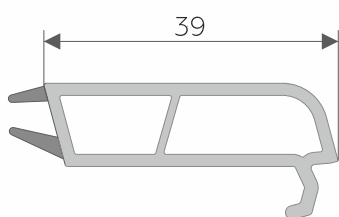
Glass bead 28 mm

WP 5028



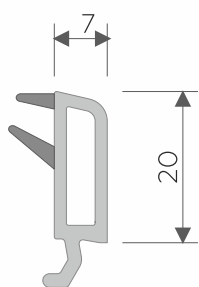
Glass bead 32 mm

WP 5030



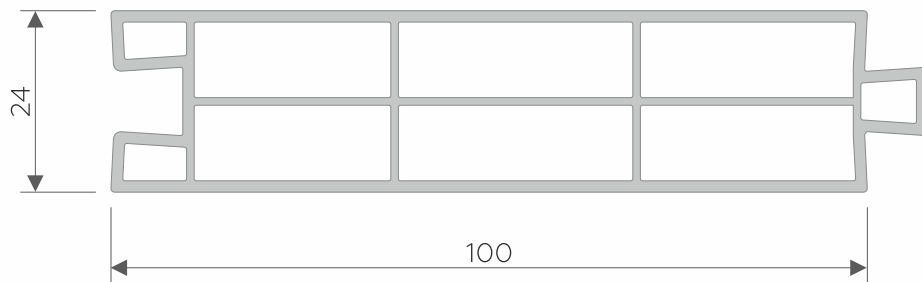
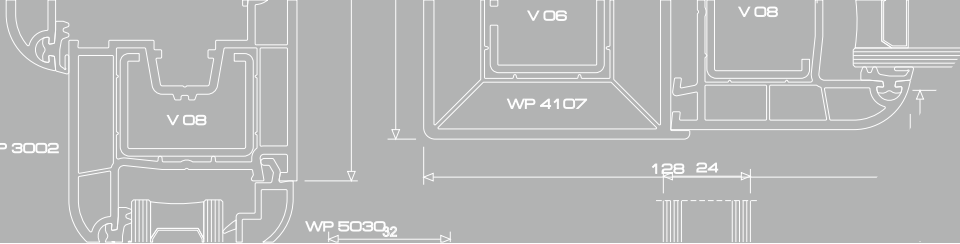
Glass bead 12 mm

WP 5034



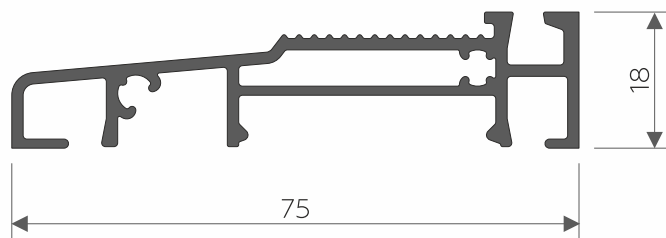
Glass bead 40 mm

WP 5040



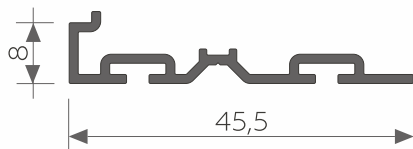
PVC panel 24 mm

WP 4119



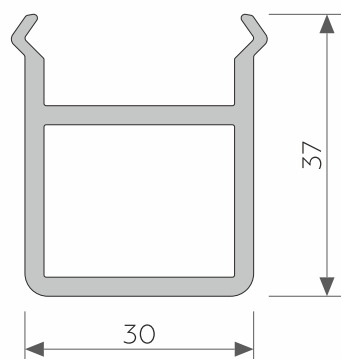
Aluminum door - sill

WP 5065



Additional profile for door

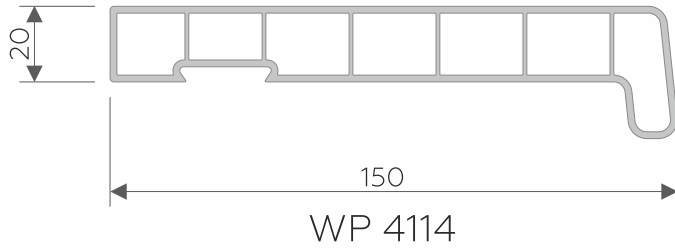
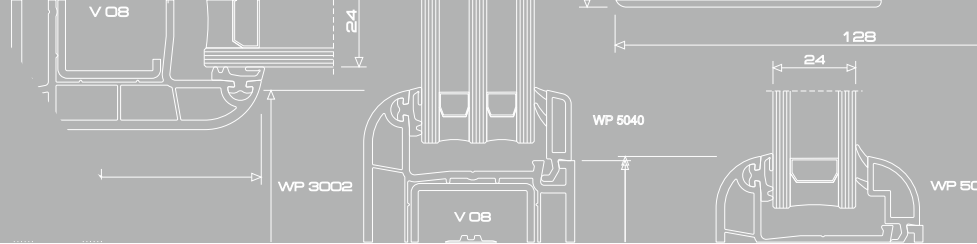
WP 4066



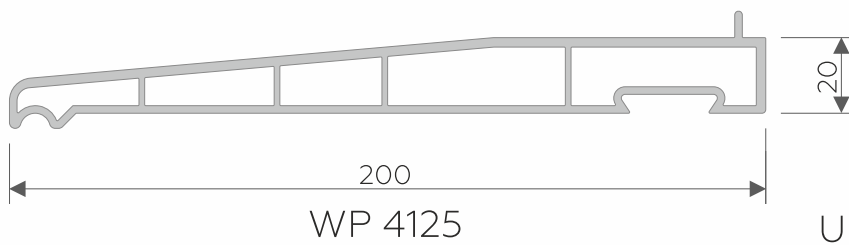
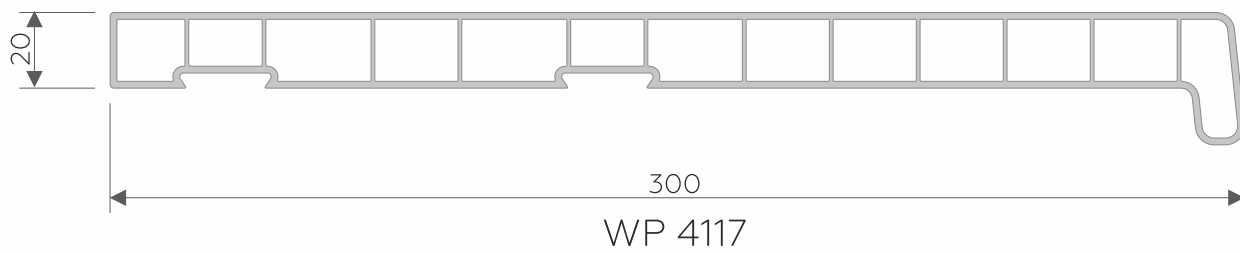
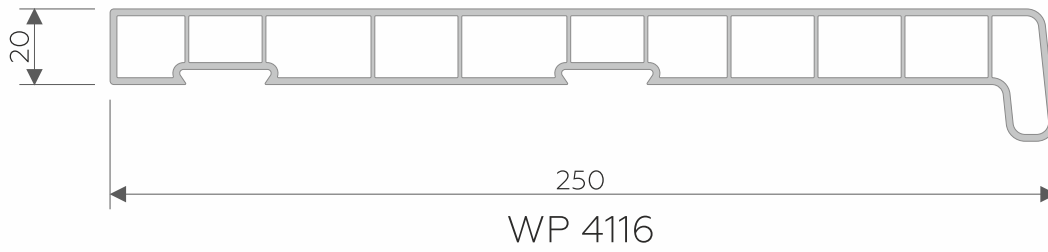
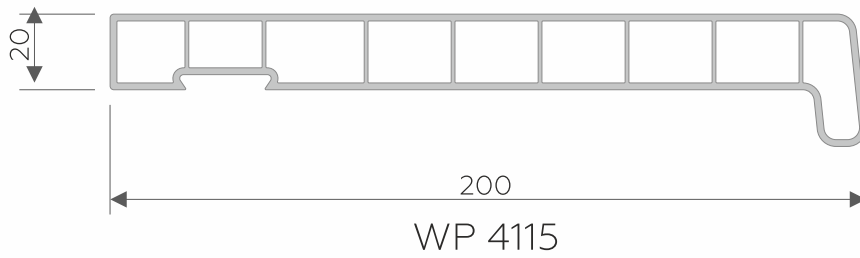
Lifting profile

WP 4123

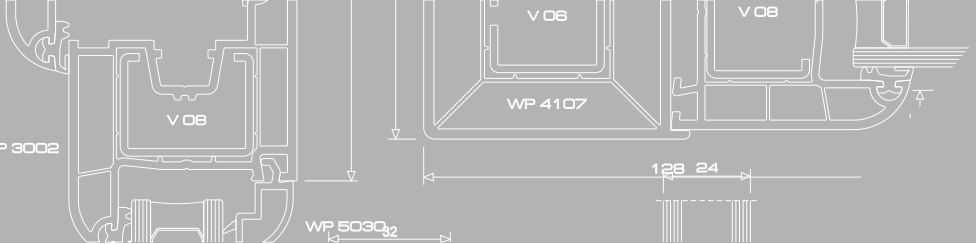
EXPERT WP 6000



Under window profile internal

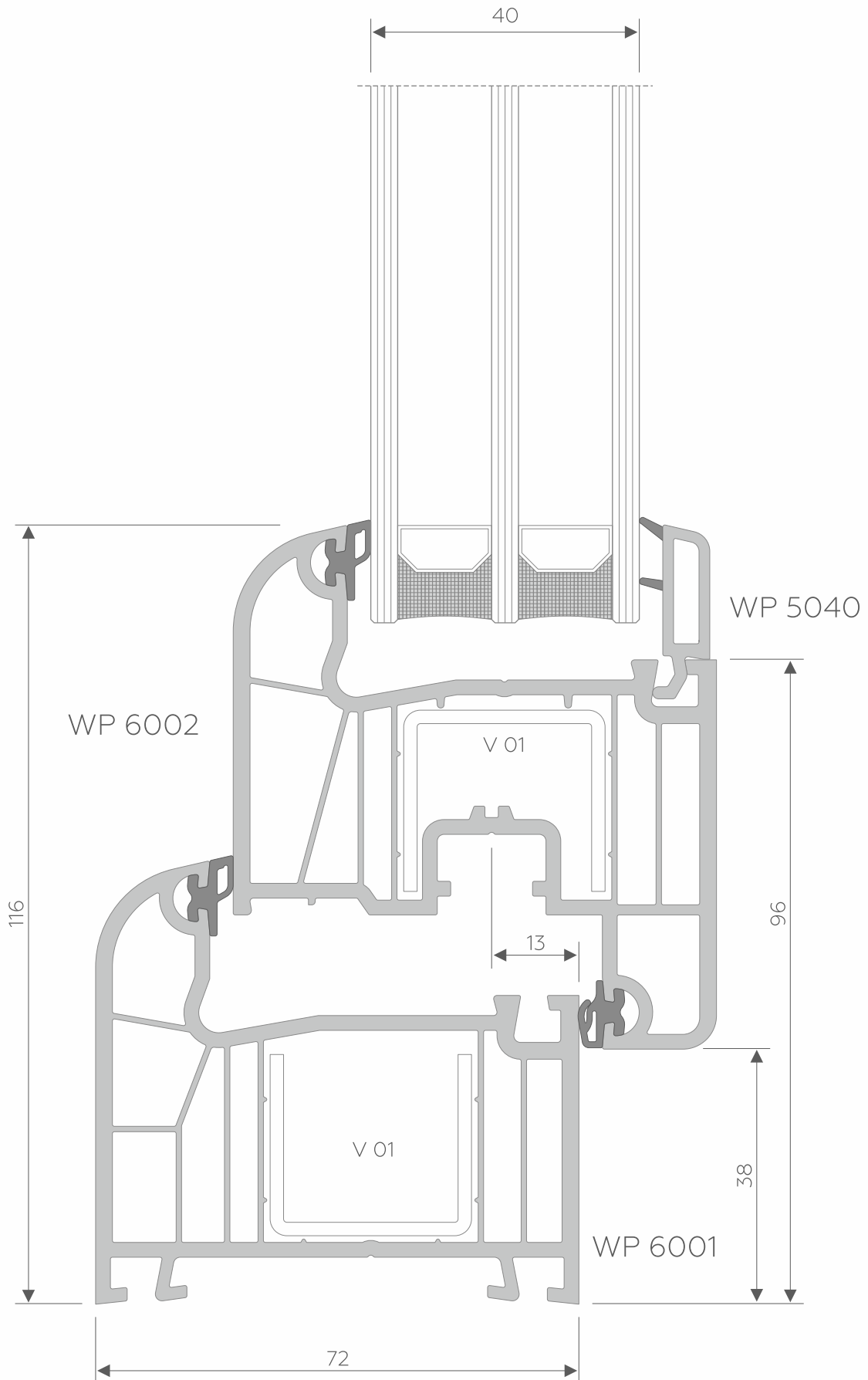


Under window profile internal

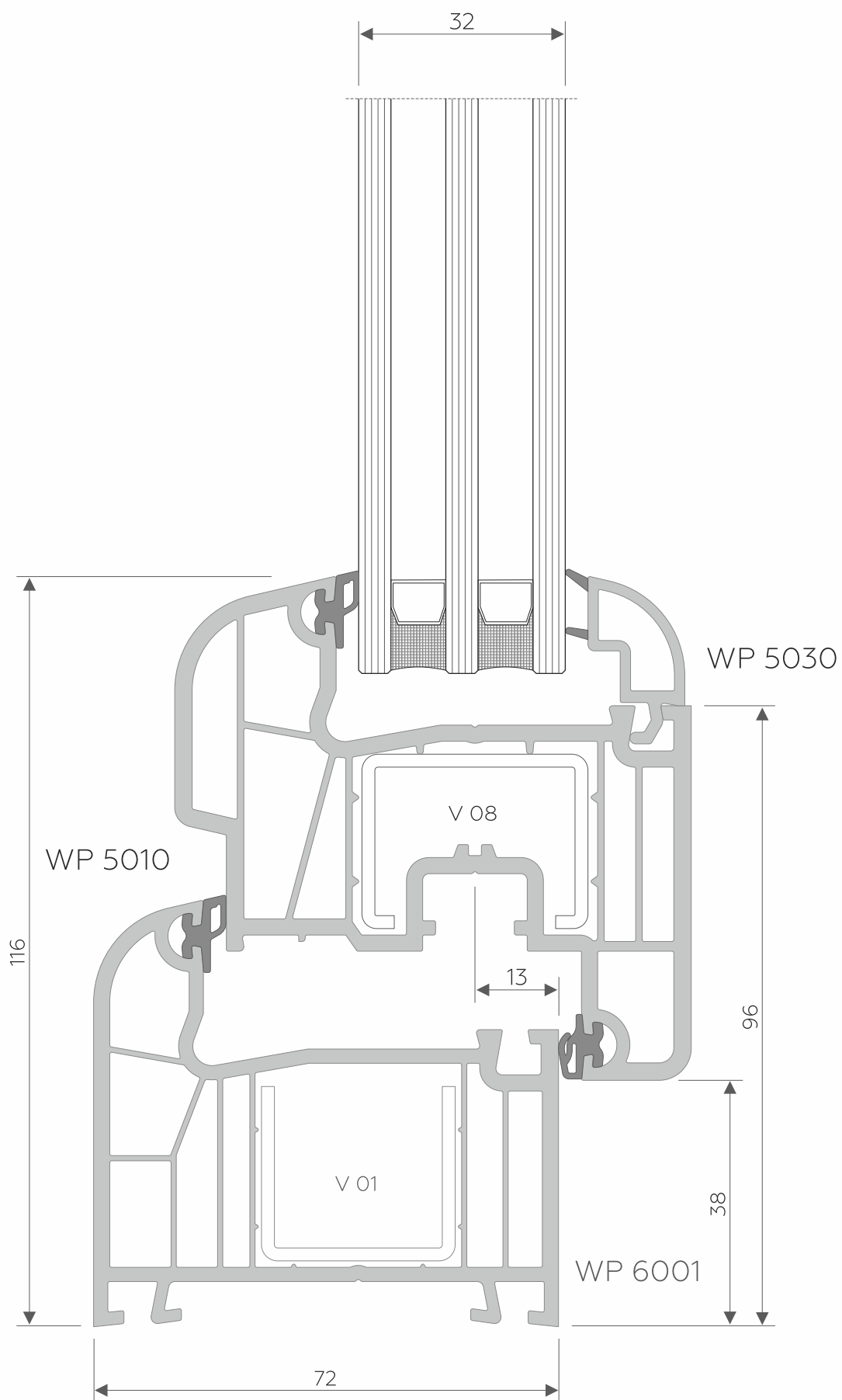


EXPERT WP 6000

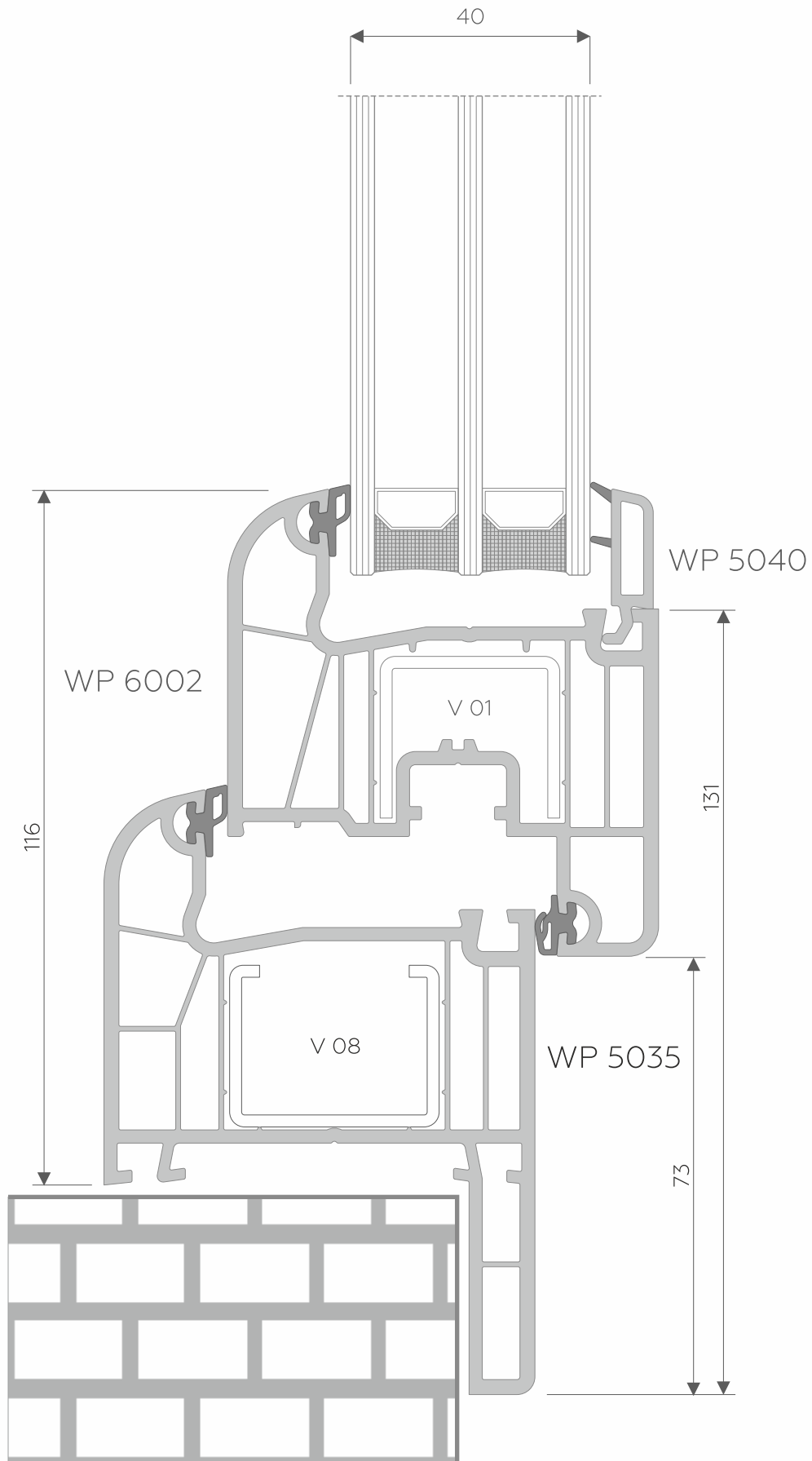
Assemblies



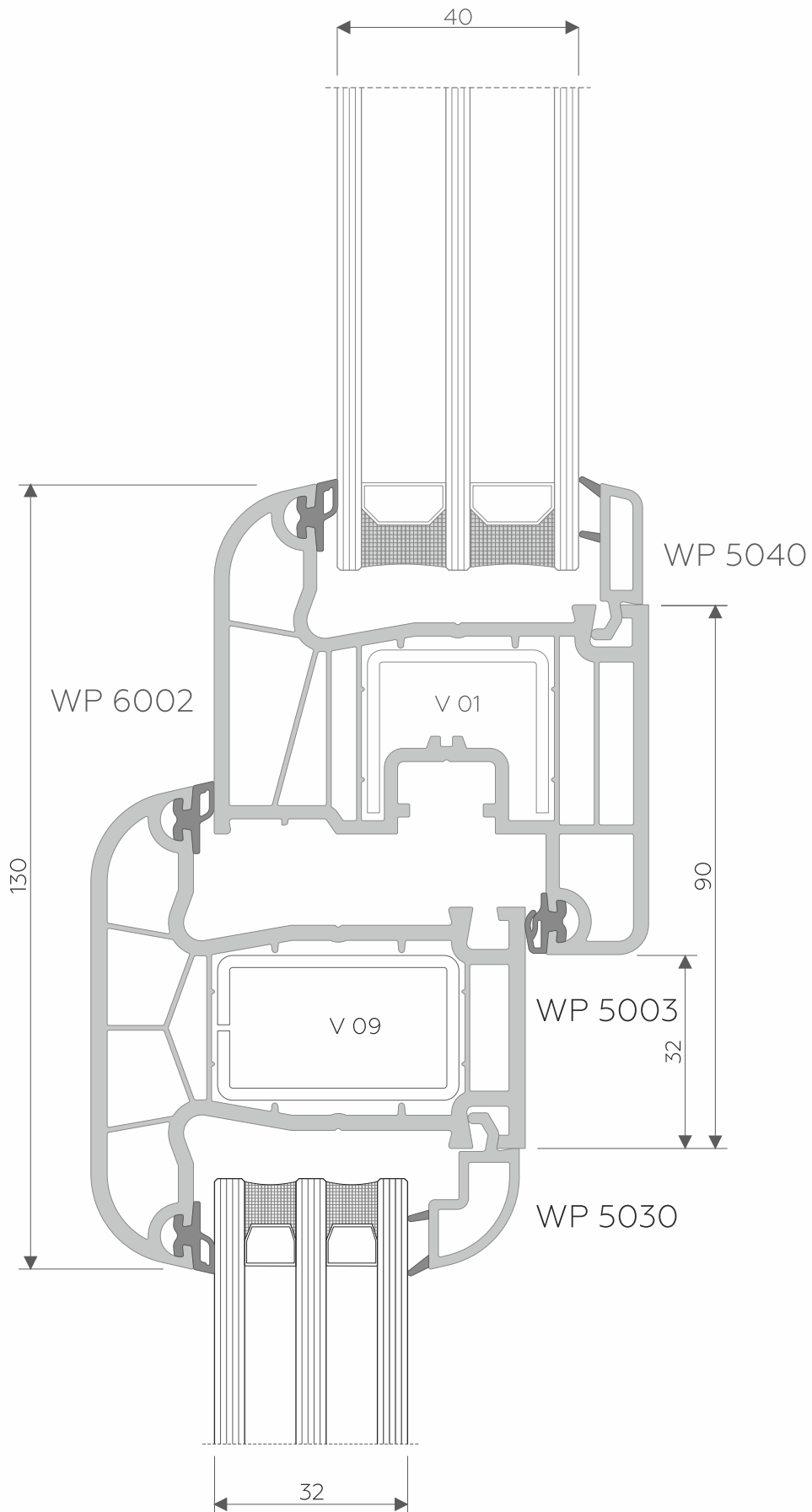
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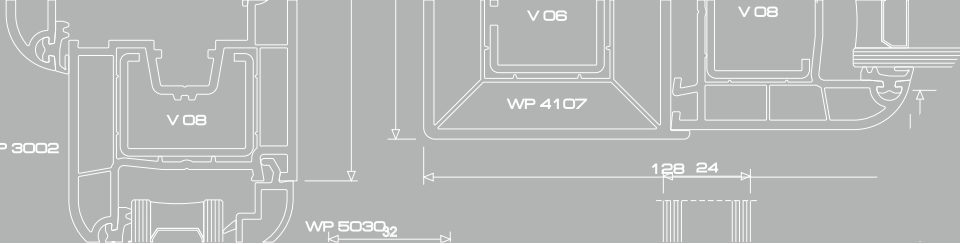


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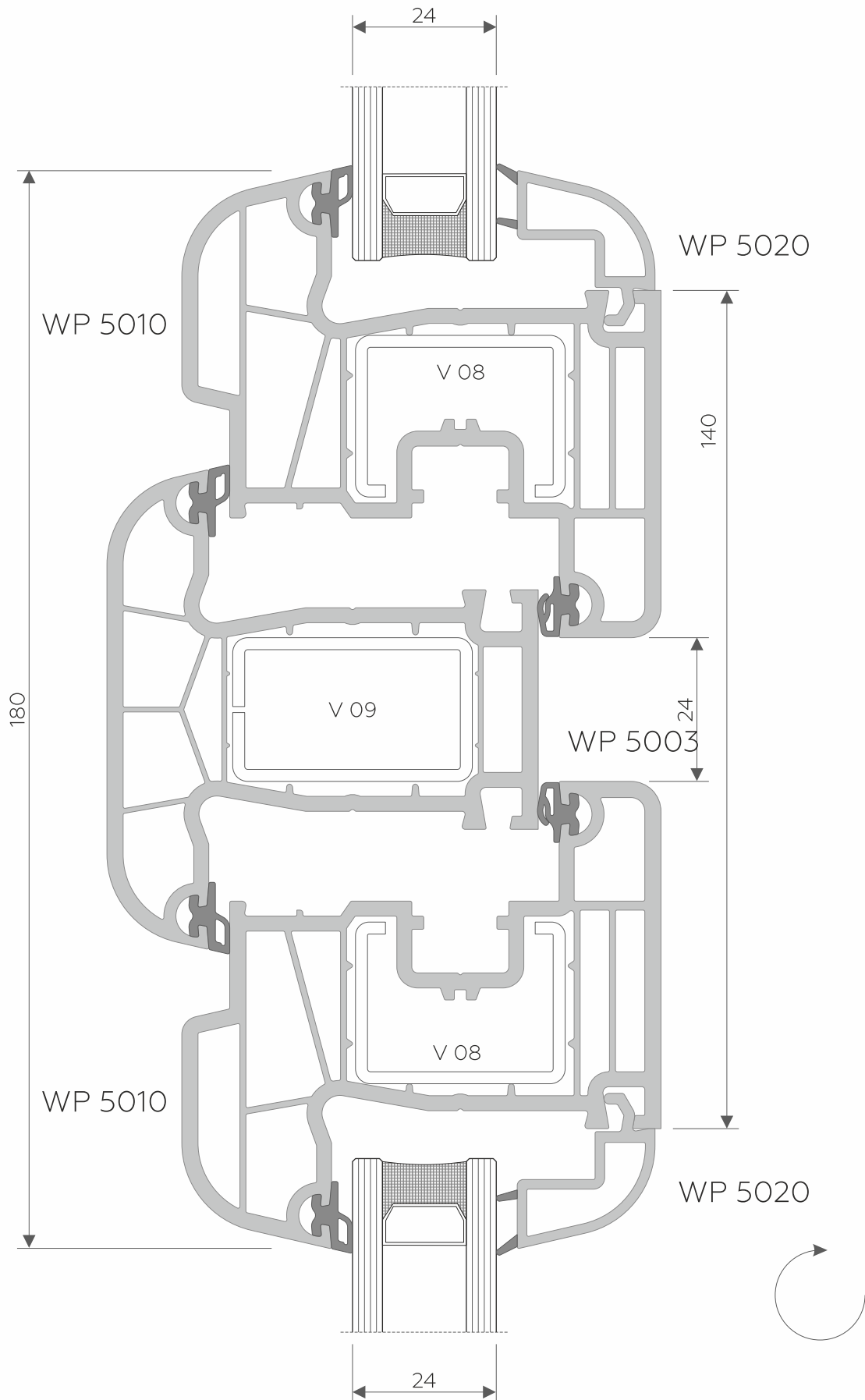


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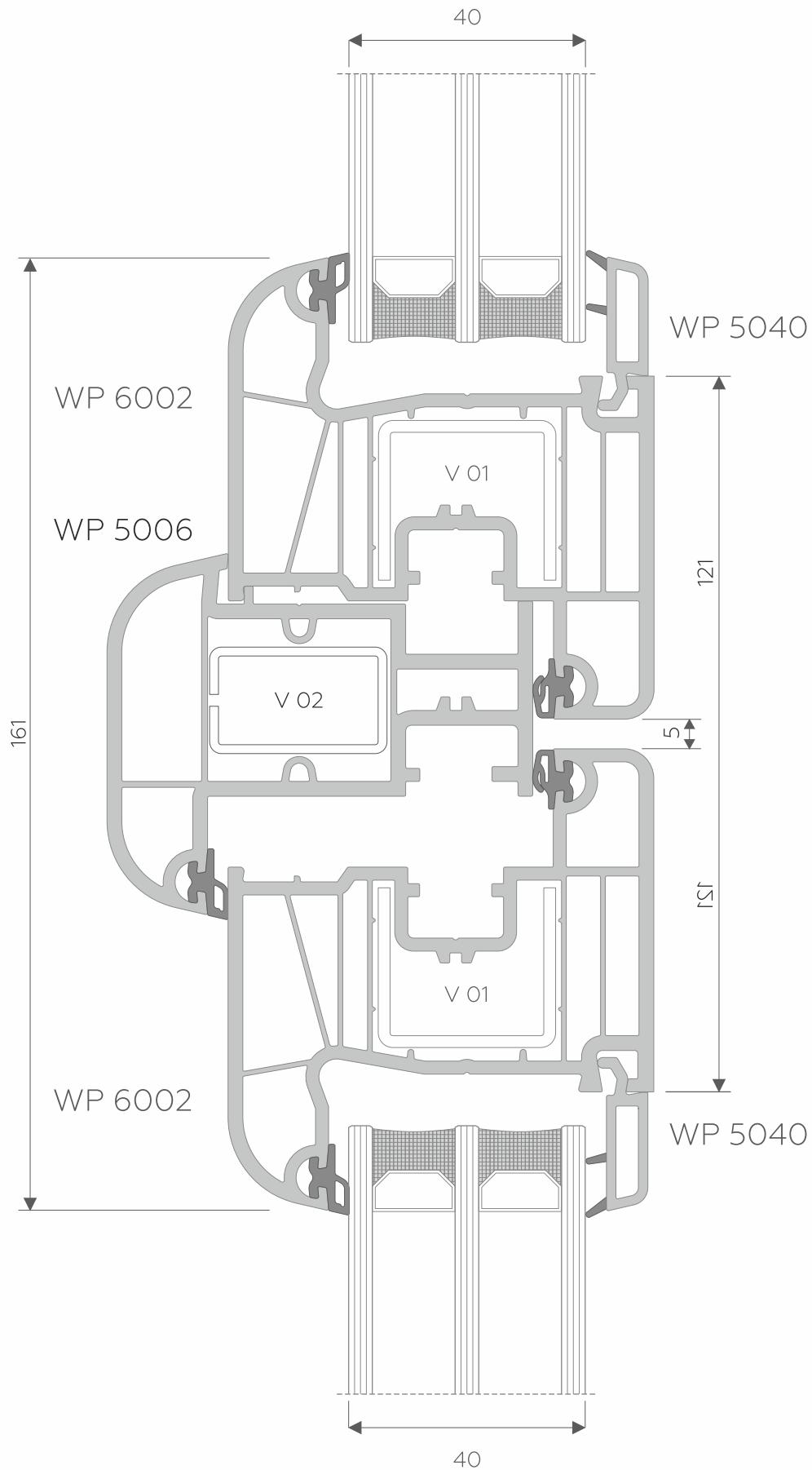


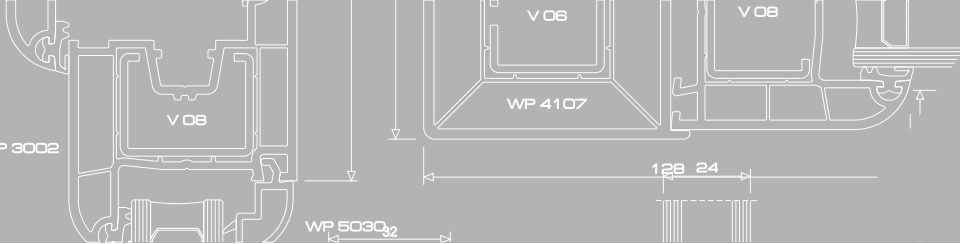


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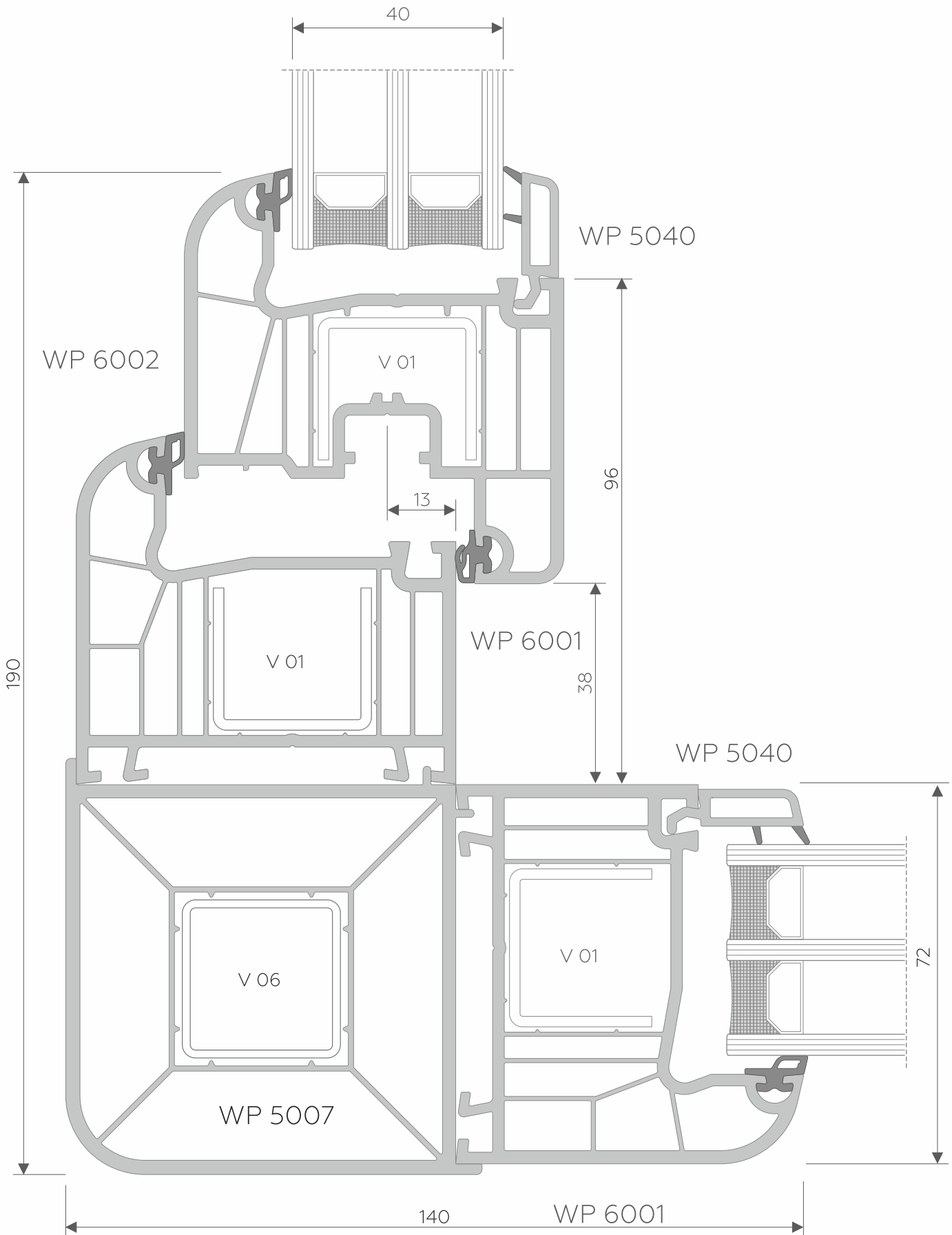


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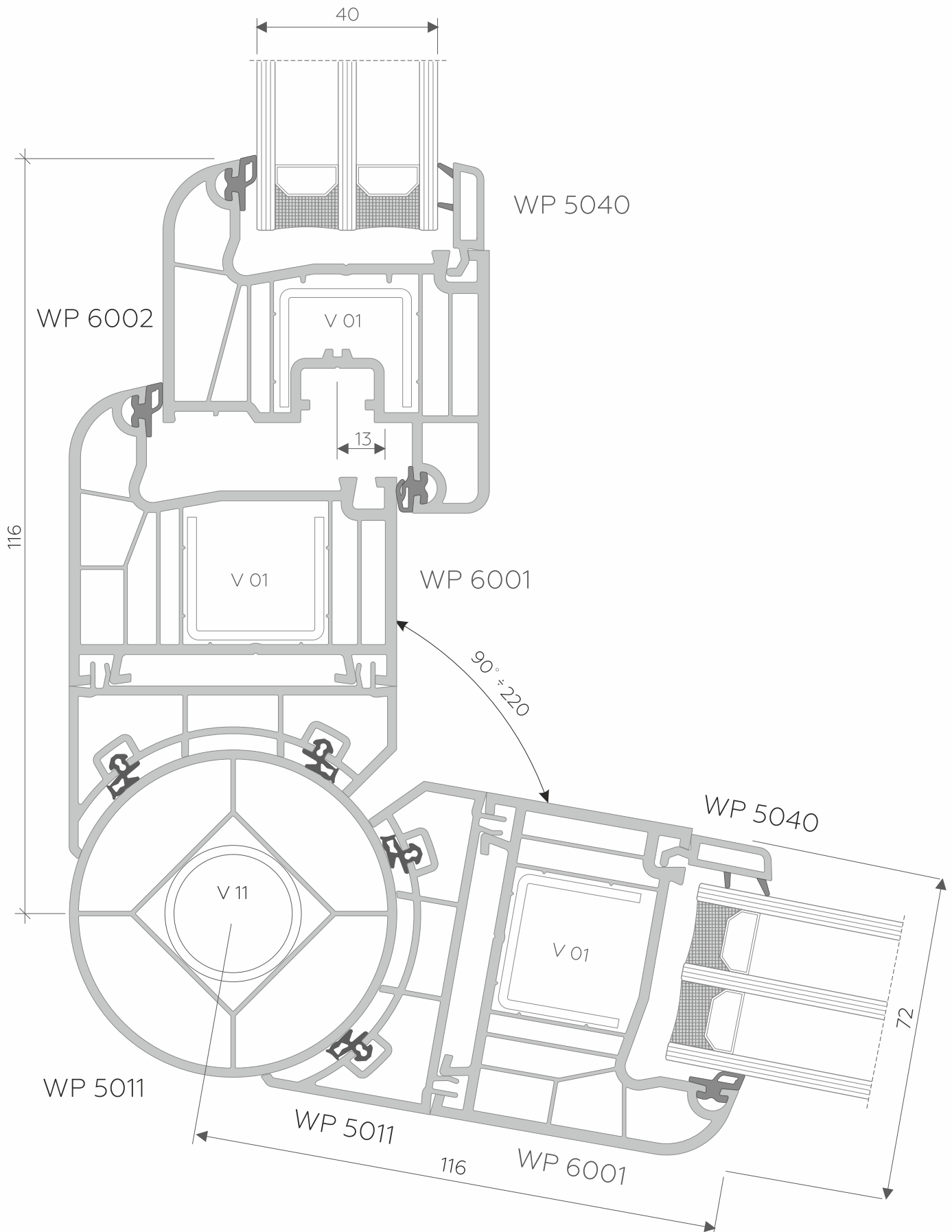




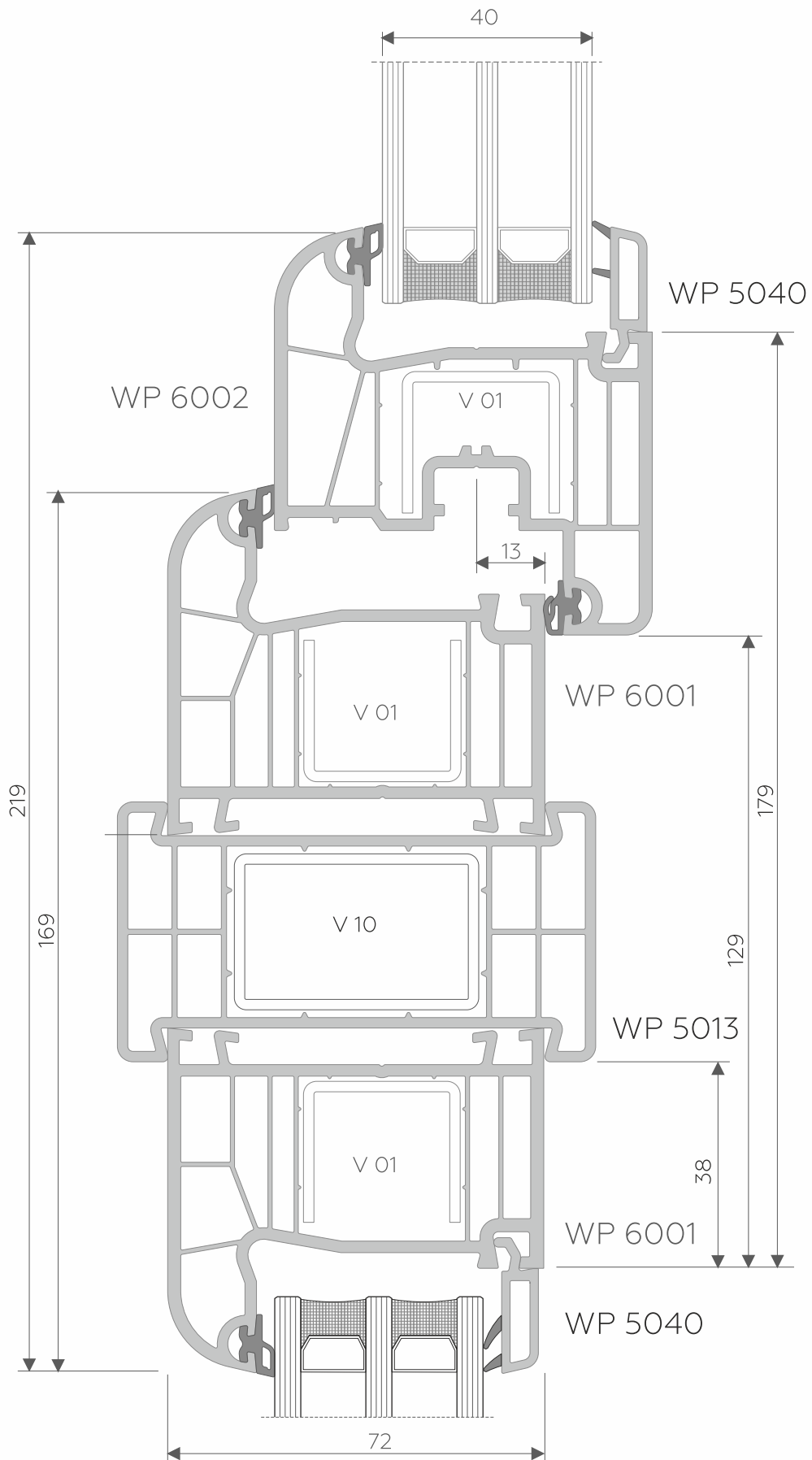
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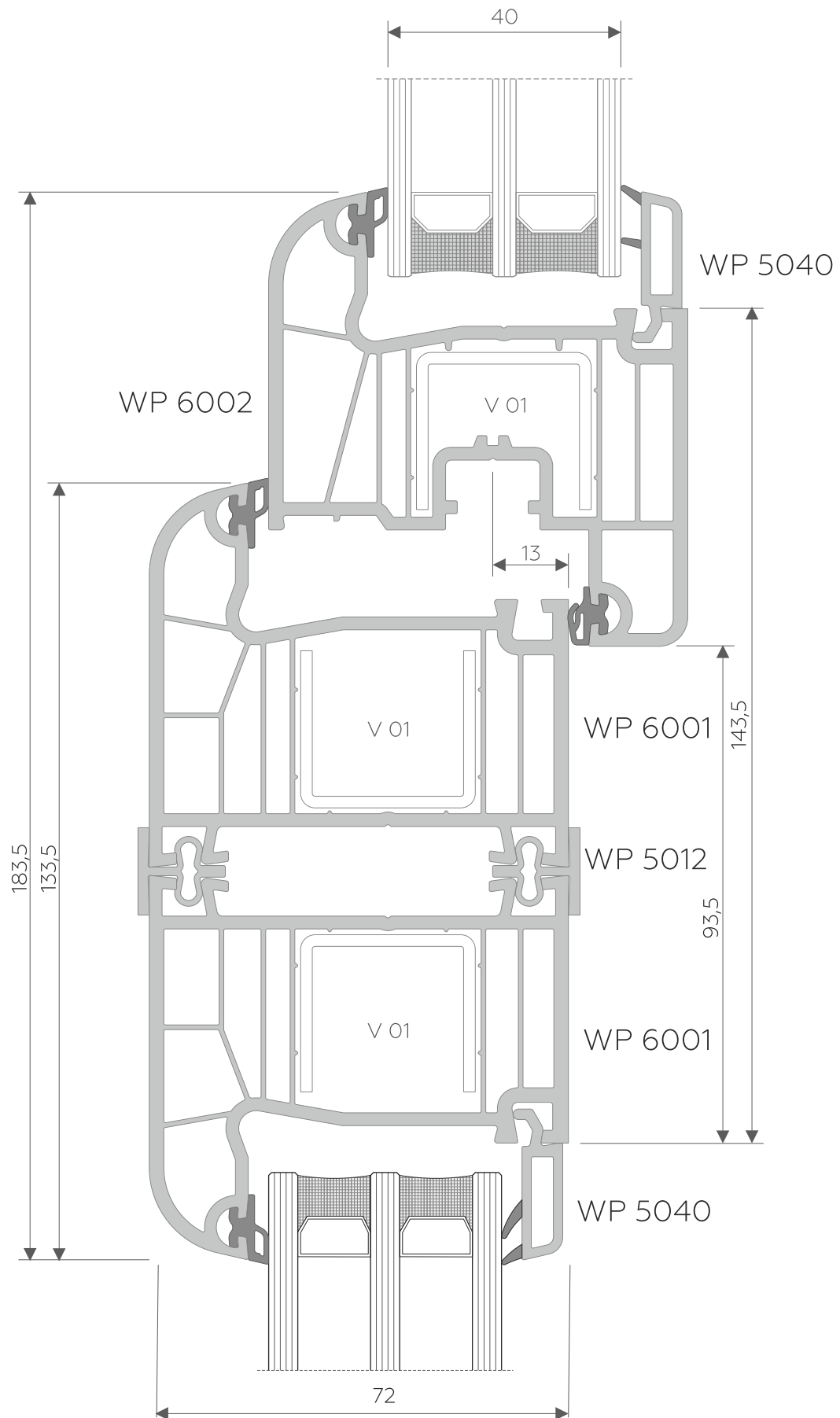
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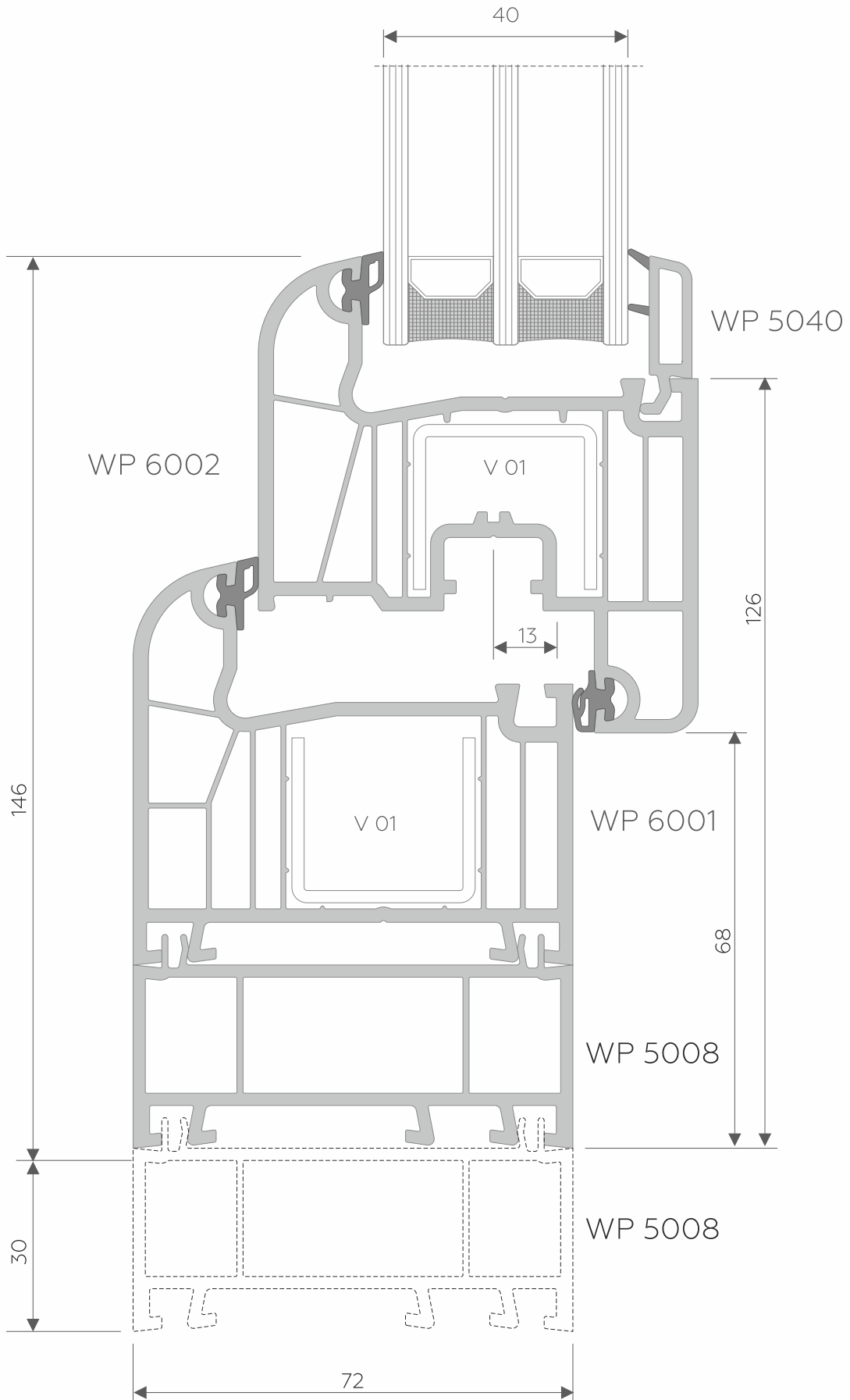
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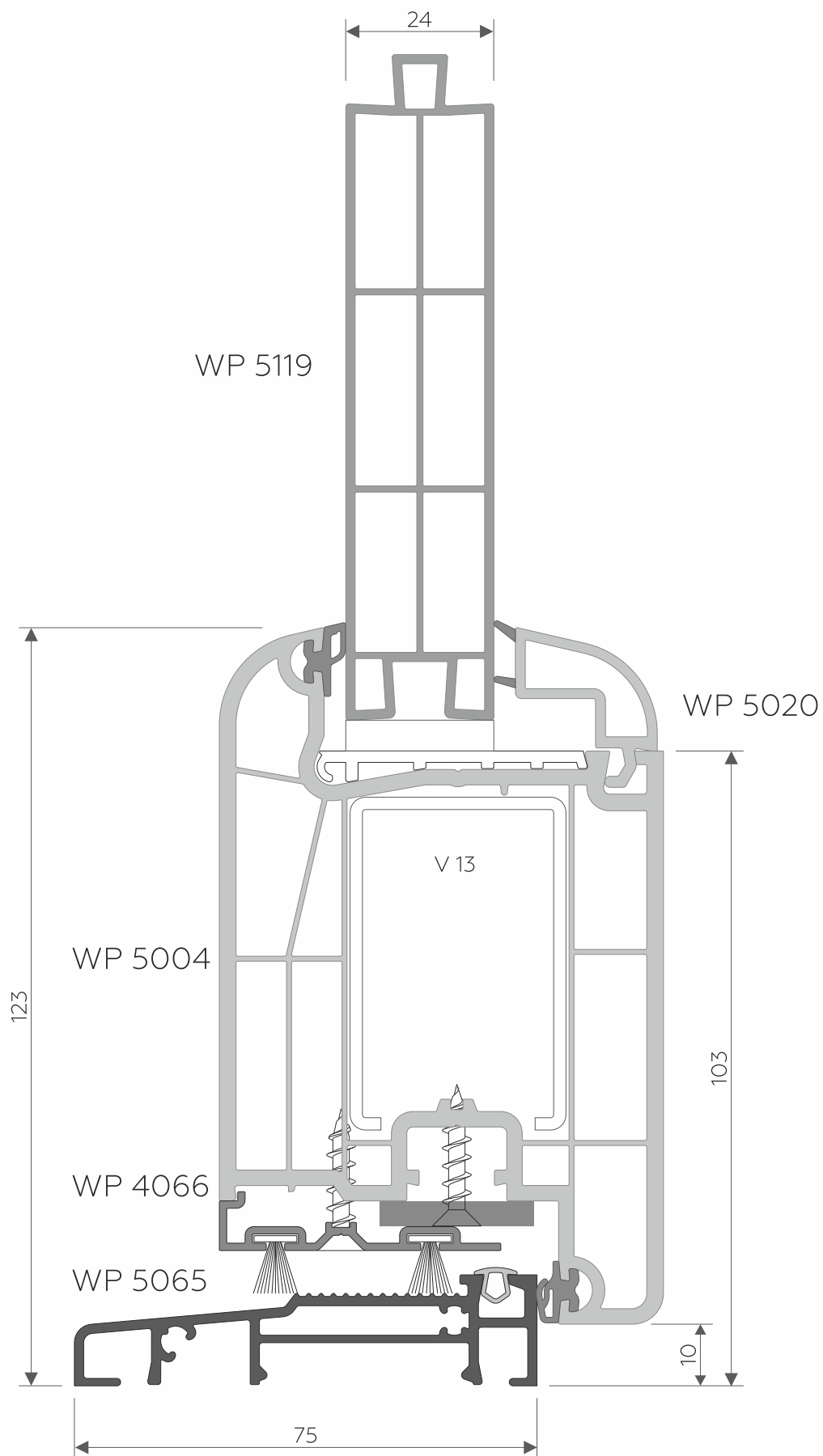
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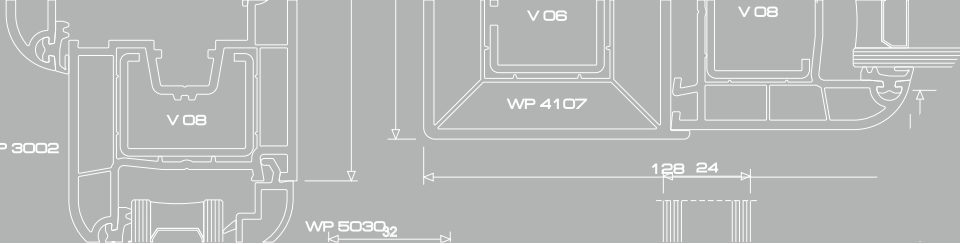


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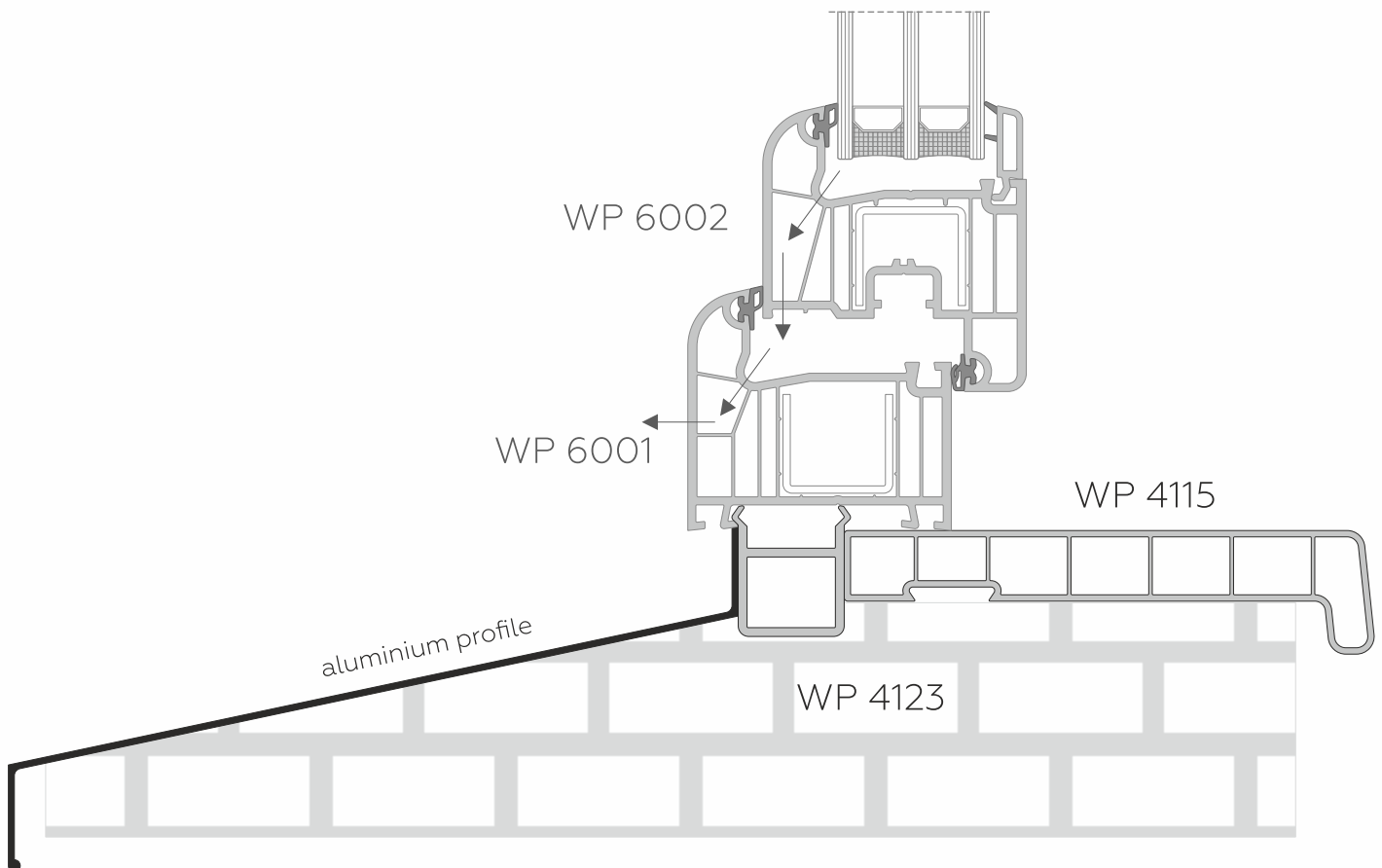
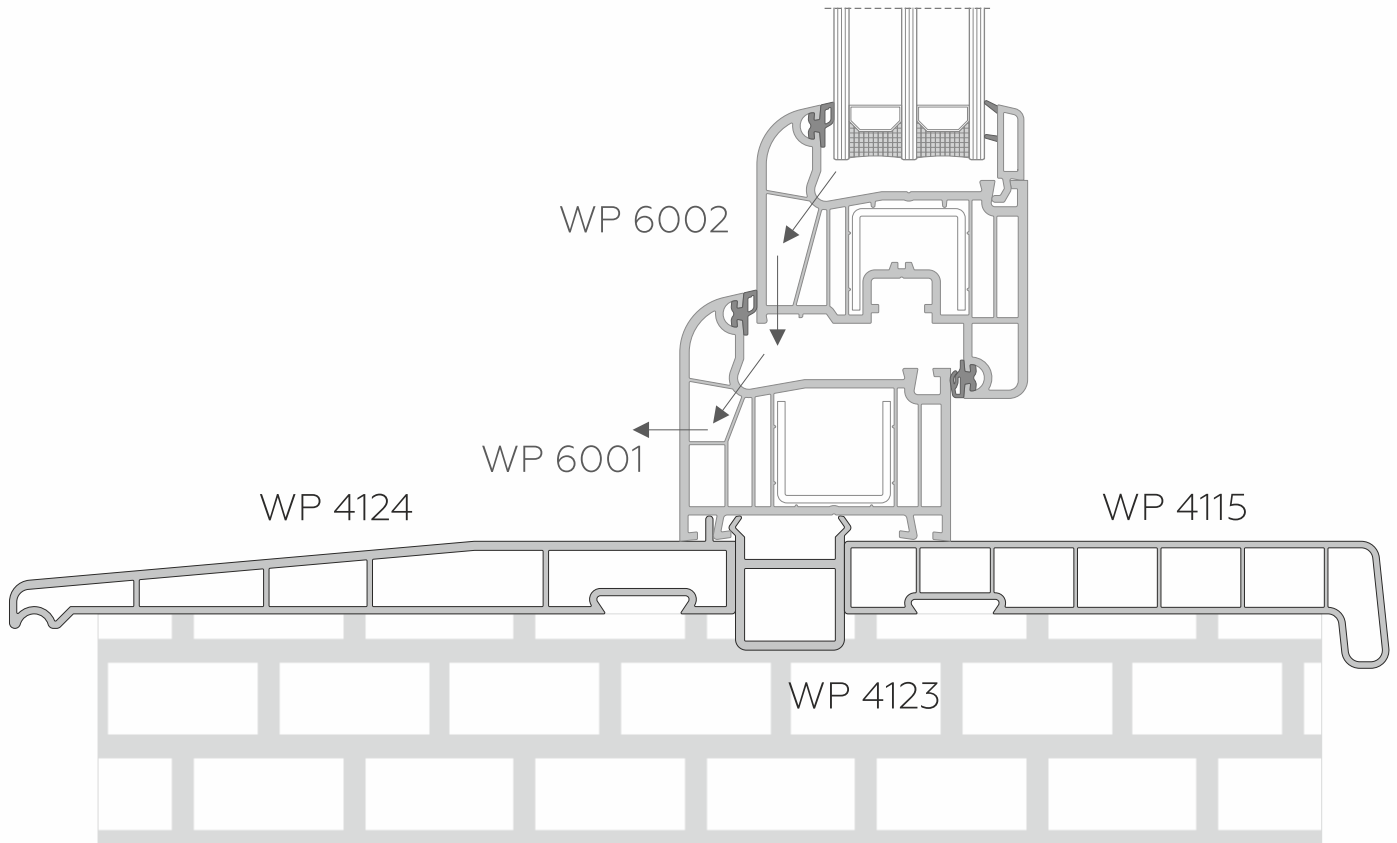


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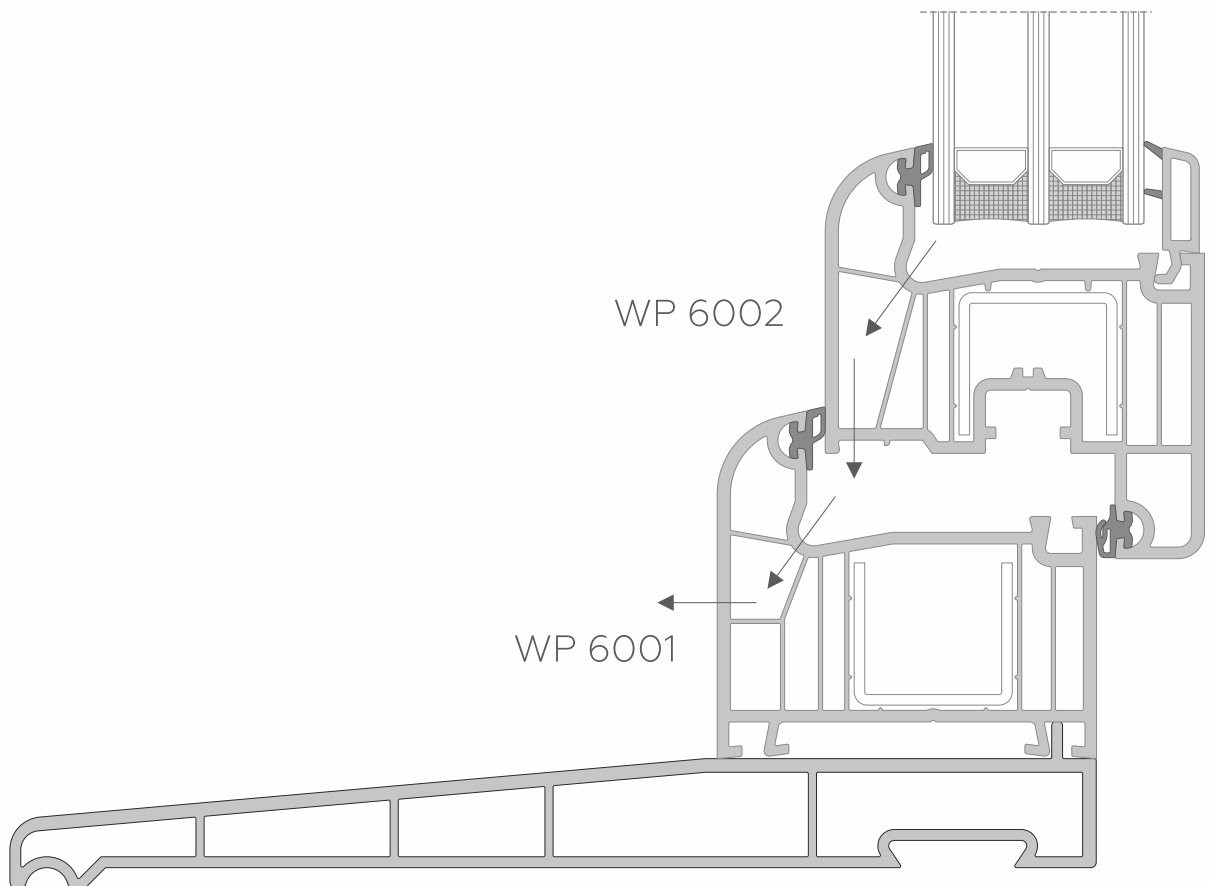
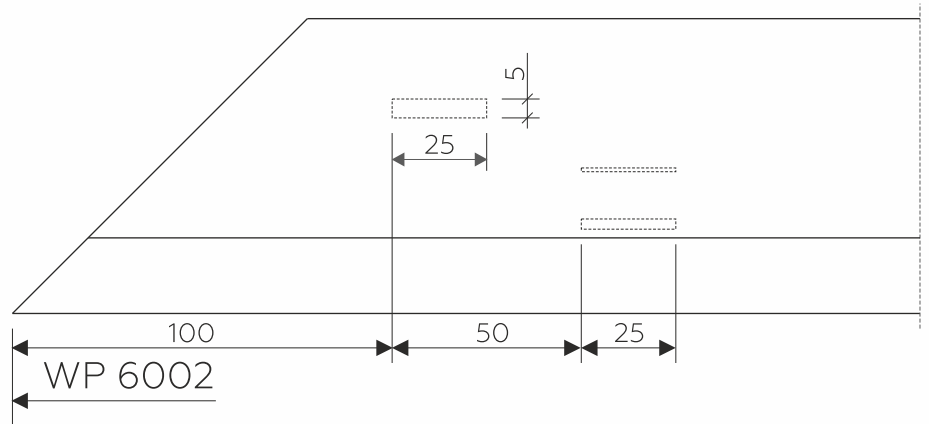
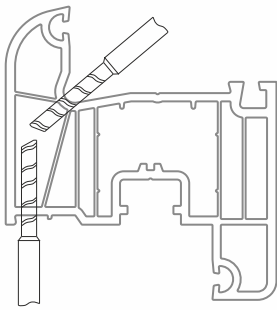
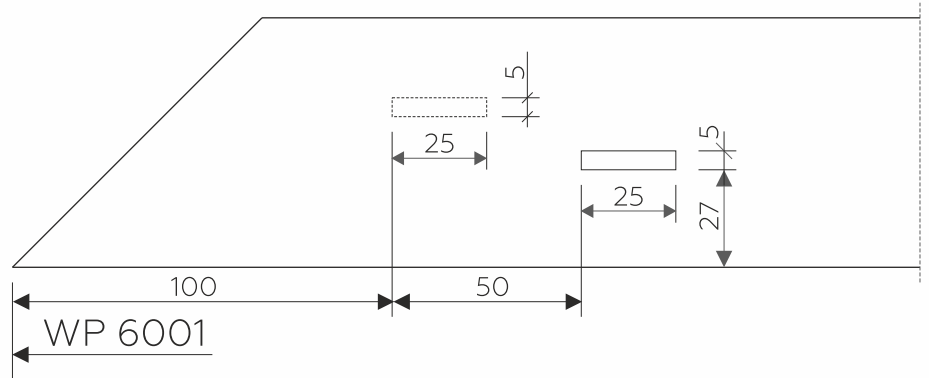
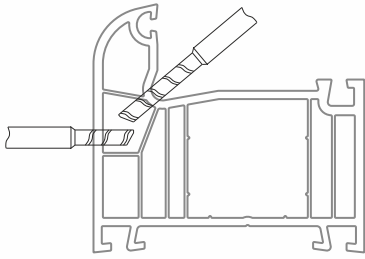
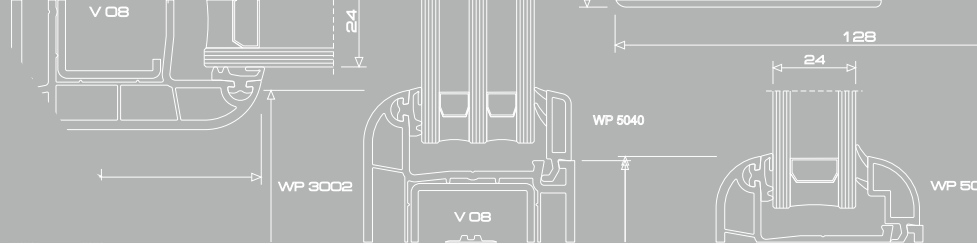


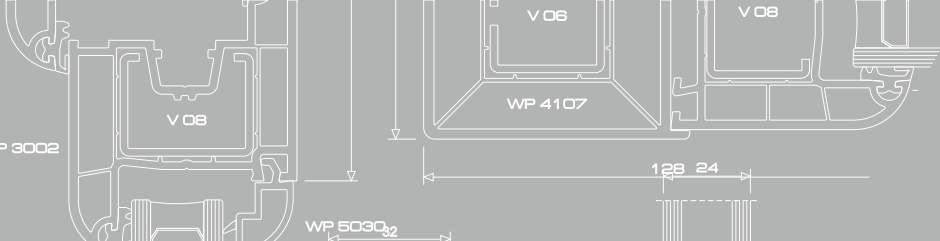
EXPERT WP 6000



EXPERT WP 6000

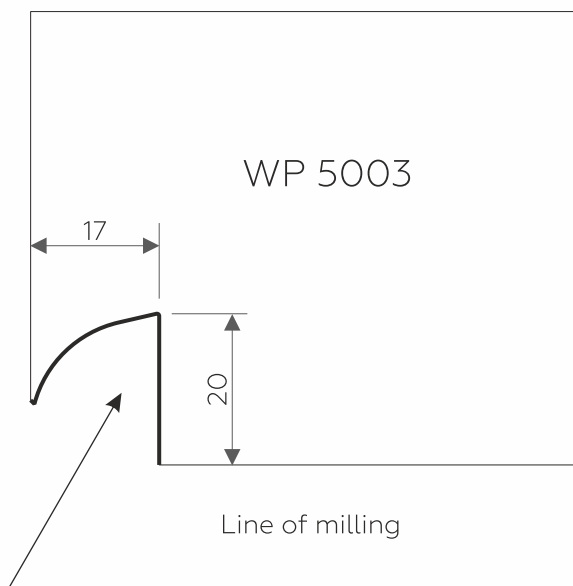
Drainage diagram



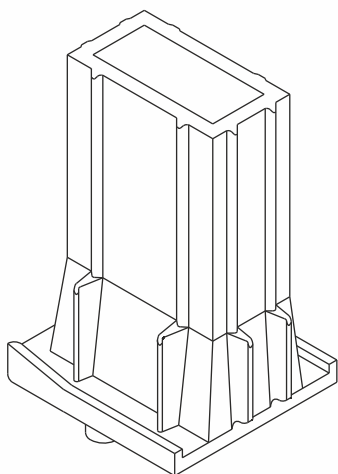


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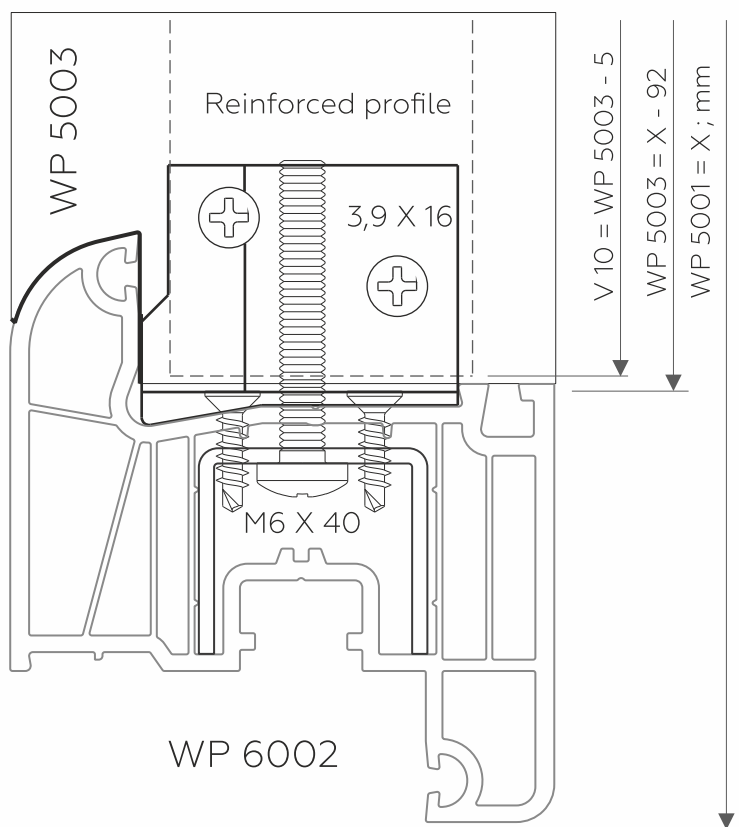
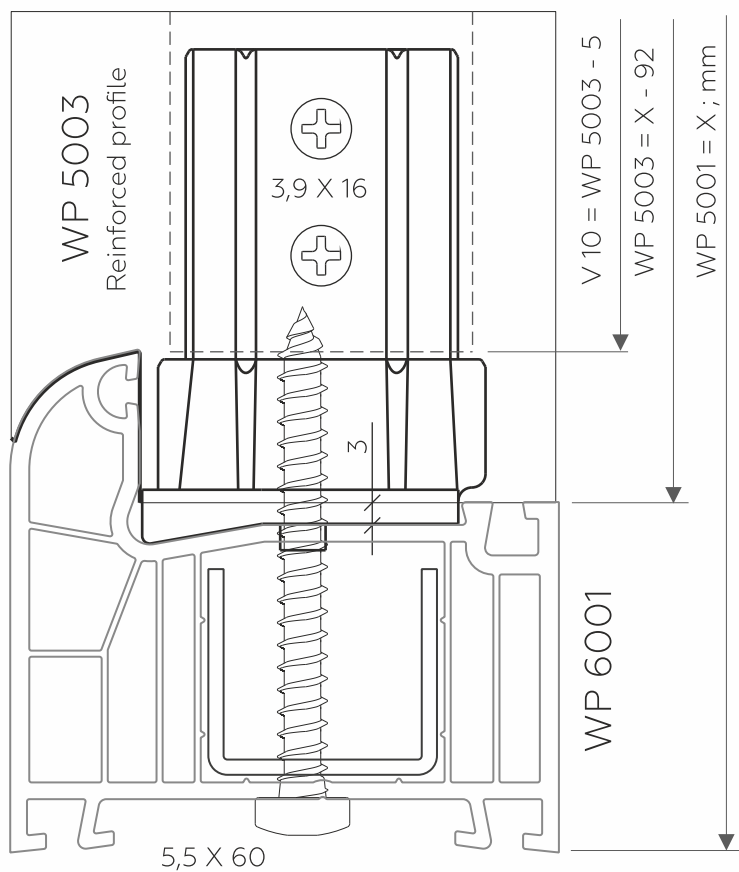
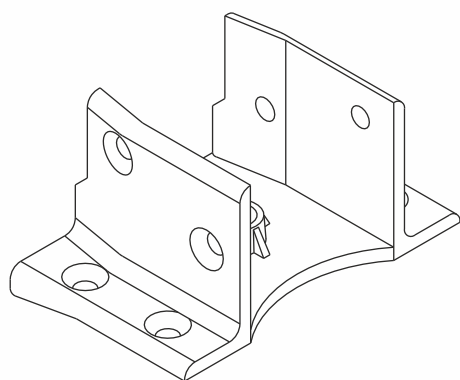
Mullion milling



Plastic joint

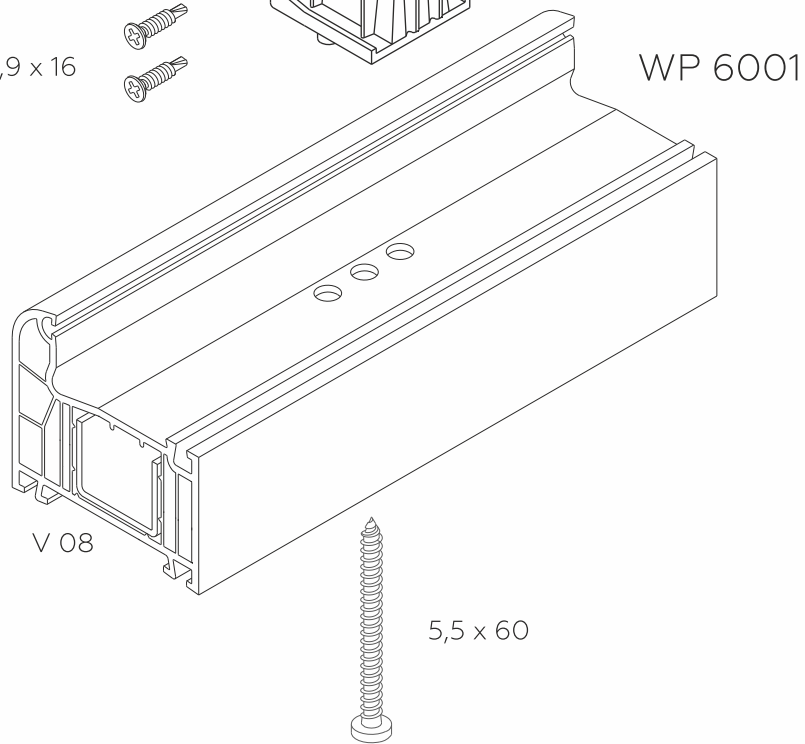
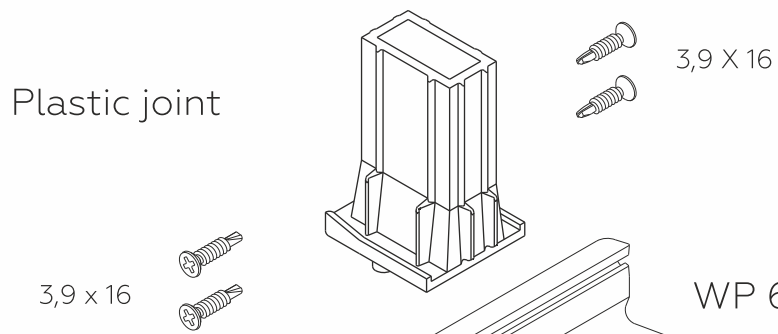
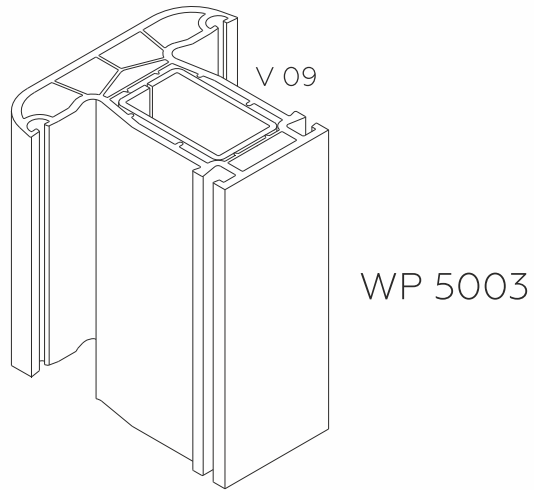
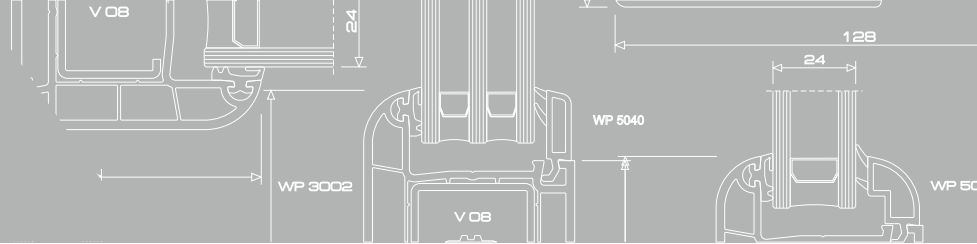


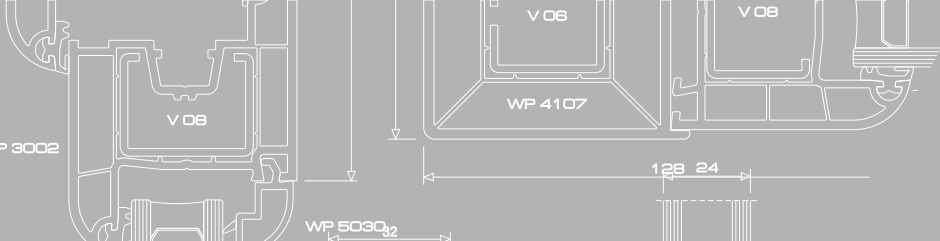
Metal joint



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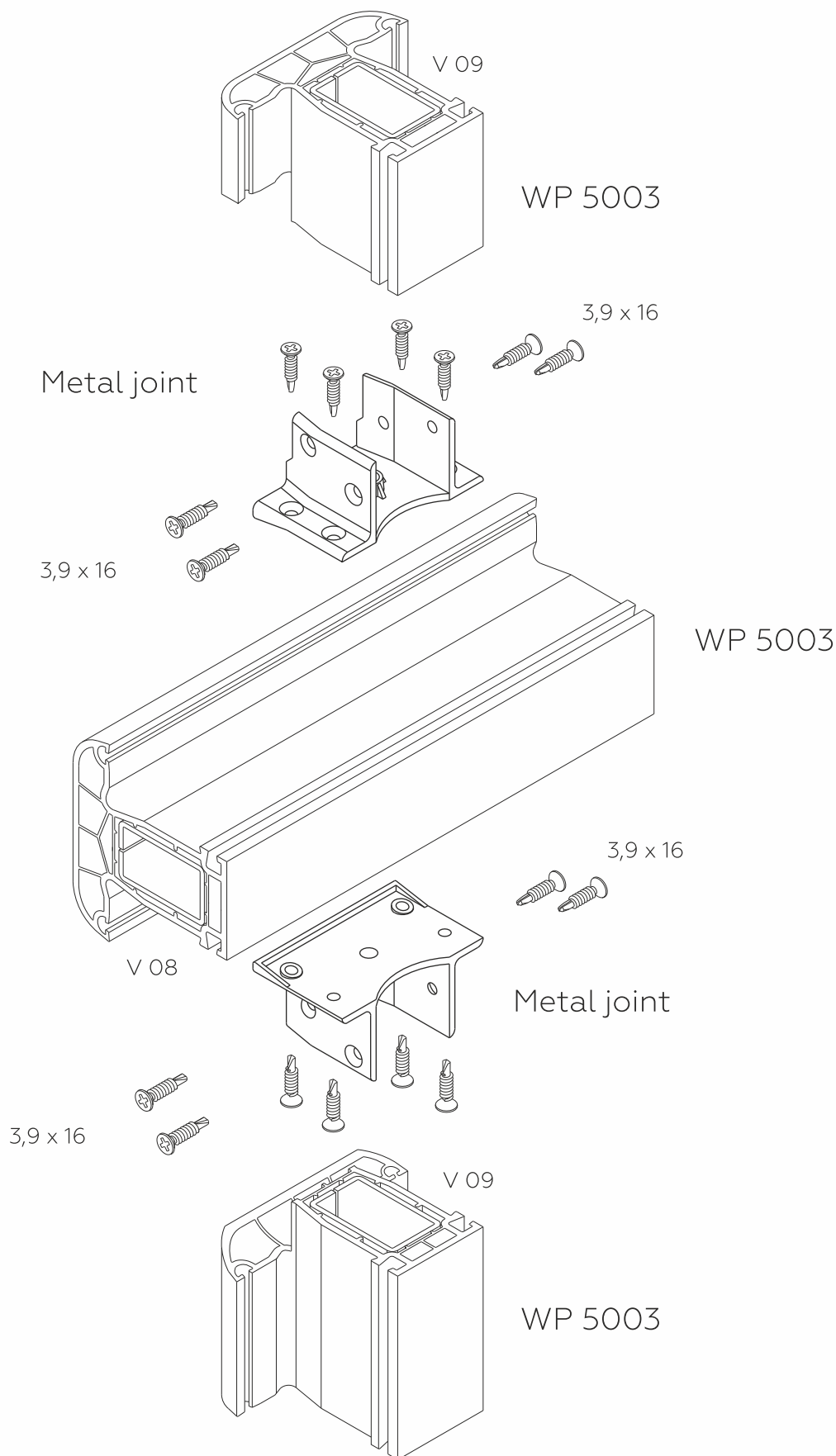
Scheme Mullion - Frame





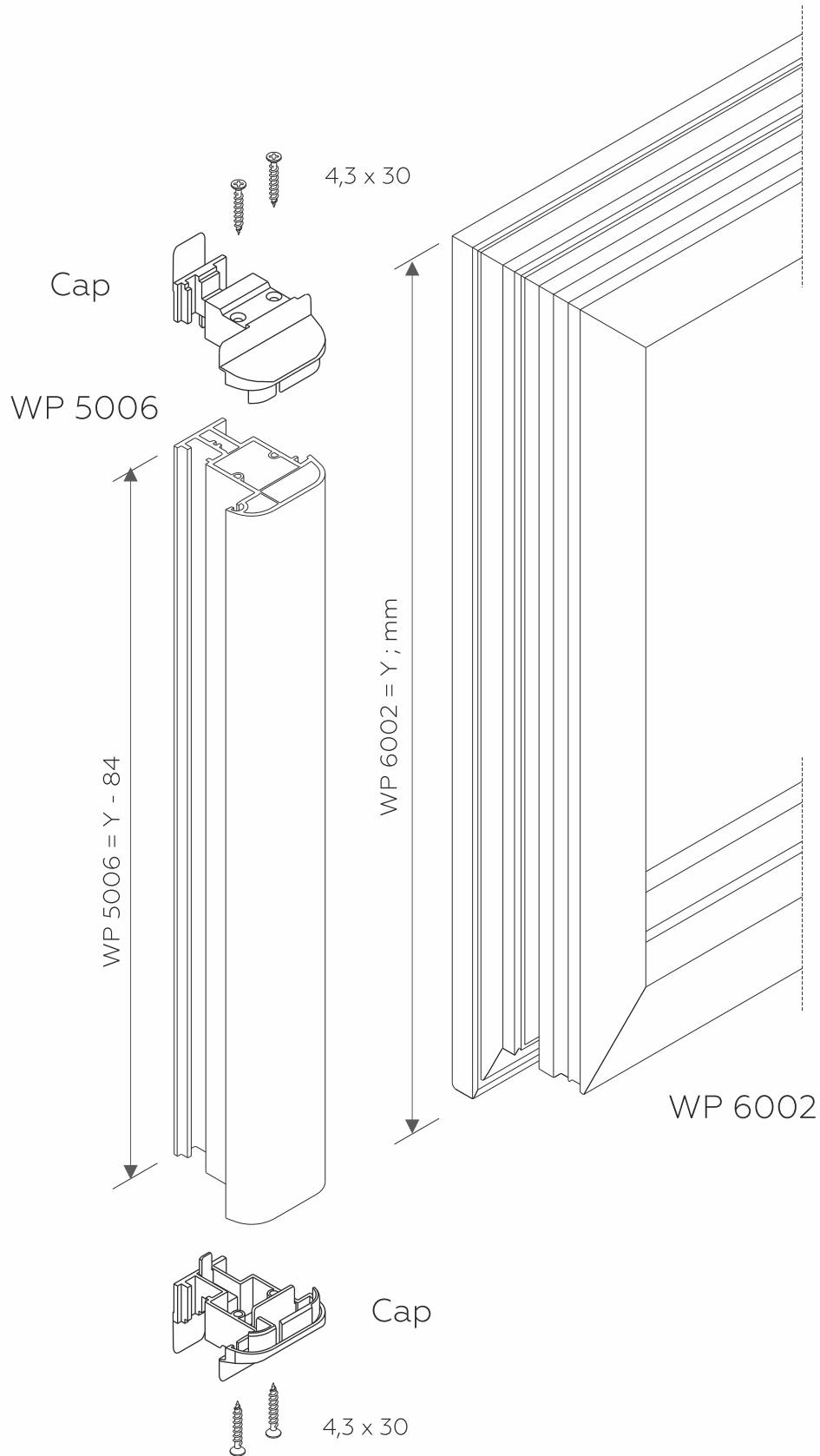
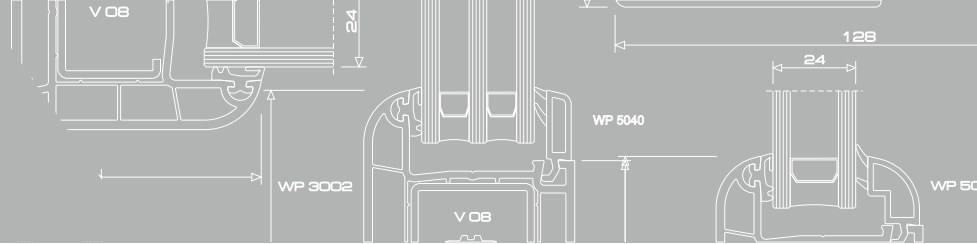
EXPERT WP 6000

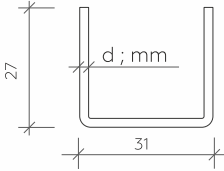
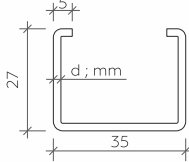
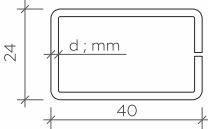
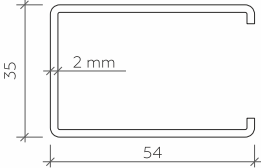
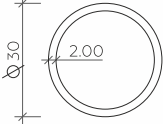
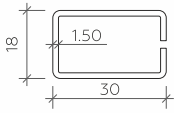
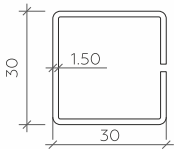
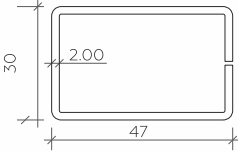
Scheme mullion - mullion



EXPERT WP 6000

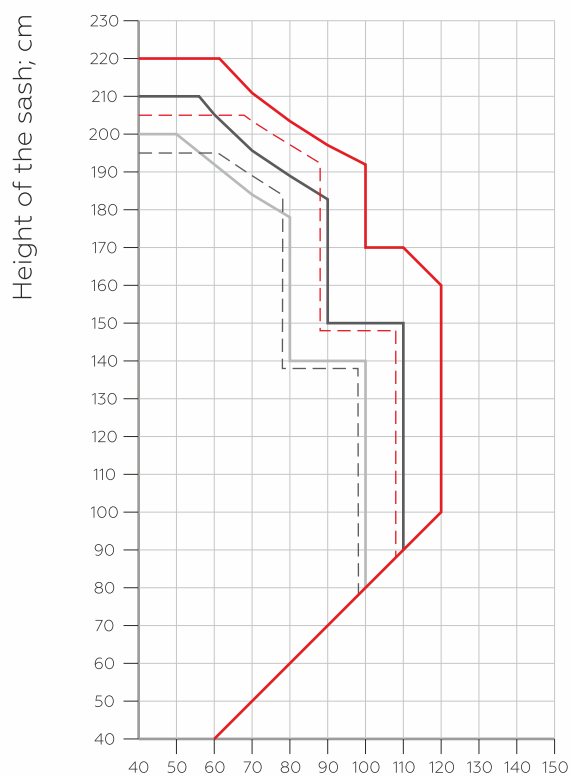
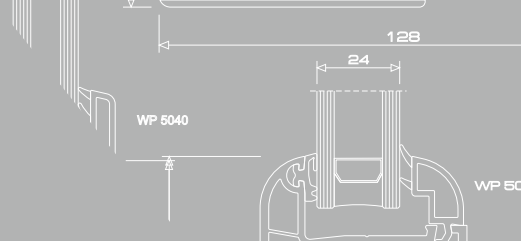
Scheme Lap joint profile



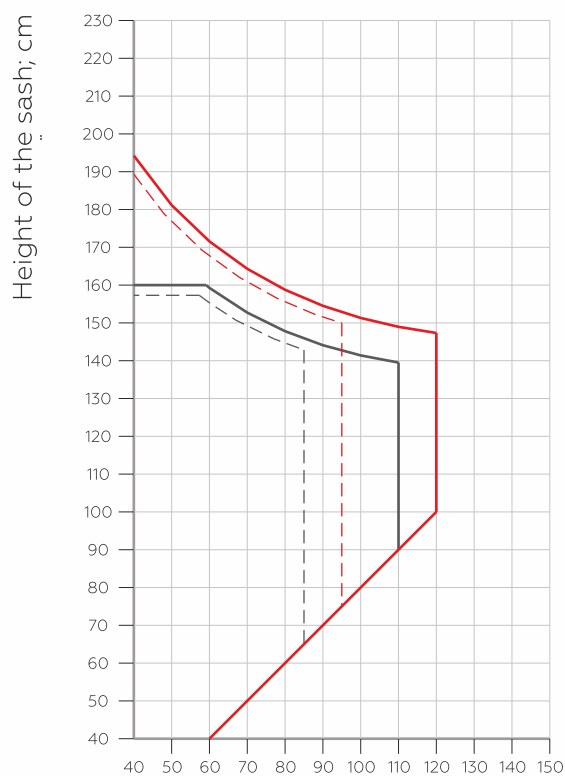
Code	PVC profile	Reinforced profiles	Inertia moment	
V 01	WP 6001 WP 6002		d = 1,5	$I_x = 1,04 \text{ cm}^4$ $I_y = 1,93 \text{ cm}^4$
			d = 2	$I_x = 1,27 \text{ cm}^4$ $I_y = 2,43 \text{ cm}^4$
V 08	WP 5001 WP 5002 WP 5010 WP 5035		d = 1,5	$I_x = 1,22 \text{ cm}^4$ $I_y = 2,80 \text{ cm}^4$
			d = 2	$I_x = 1,71 \text{ cm}^4$ $I_y = 3,76 \text{ cm}^4$
V 09	WP 5003		d = 1,5	$I_x = 1,71 \text{ cm}^4$ $I_y = 3,76 \text{ cm}^4$
			d = 2	$I_x = 2,14 \text{ cm}^4$ $I_y = 4,76 \text{ cm}^4$
V 13	WP 5004 WP 5005		$I_x = 6,47 \text{ cm}^4$ $I_y = 9,29 \text{ cm}^4$	
V 11	WP 5011		$I_x = 1,73 \text{ cm}^4$ $I_y = 1,73 \text{ cm}^4$	
V 02	WP 5006		$I_x = 0,67 \text{ cm}^4$ $I_y = 1,46 \text{ cm}^4$	
V 06	WP 5007		$I_x = 2,19 \text{ cm}^4$ $I_y = 2,25 \text{ cm}^4$	
V 10	WP 5013		$I_x = 4,17 \text{ cm}^4$ $I_y = 8,35 \text{ cm}^4$	

EXPERT WP 6000

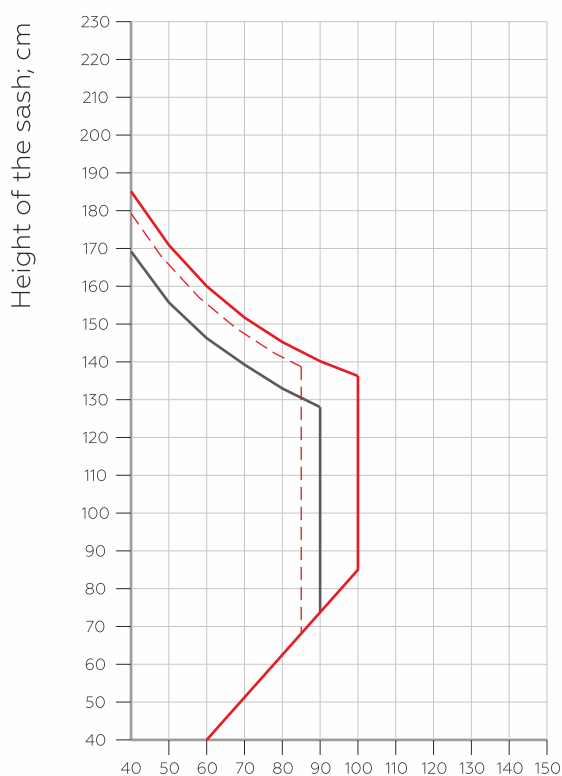
Graphics for finding the maximum size of the sashes



Graphic 2 Width of the sash; cm



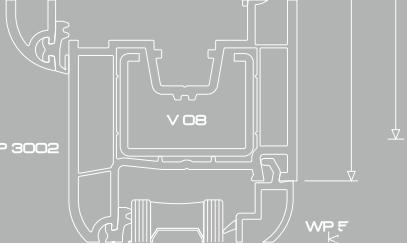
Graphic 1 Width of the sash; cm



Graphic 3 Width of the sash; cm

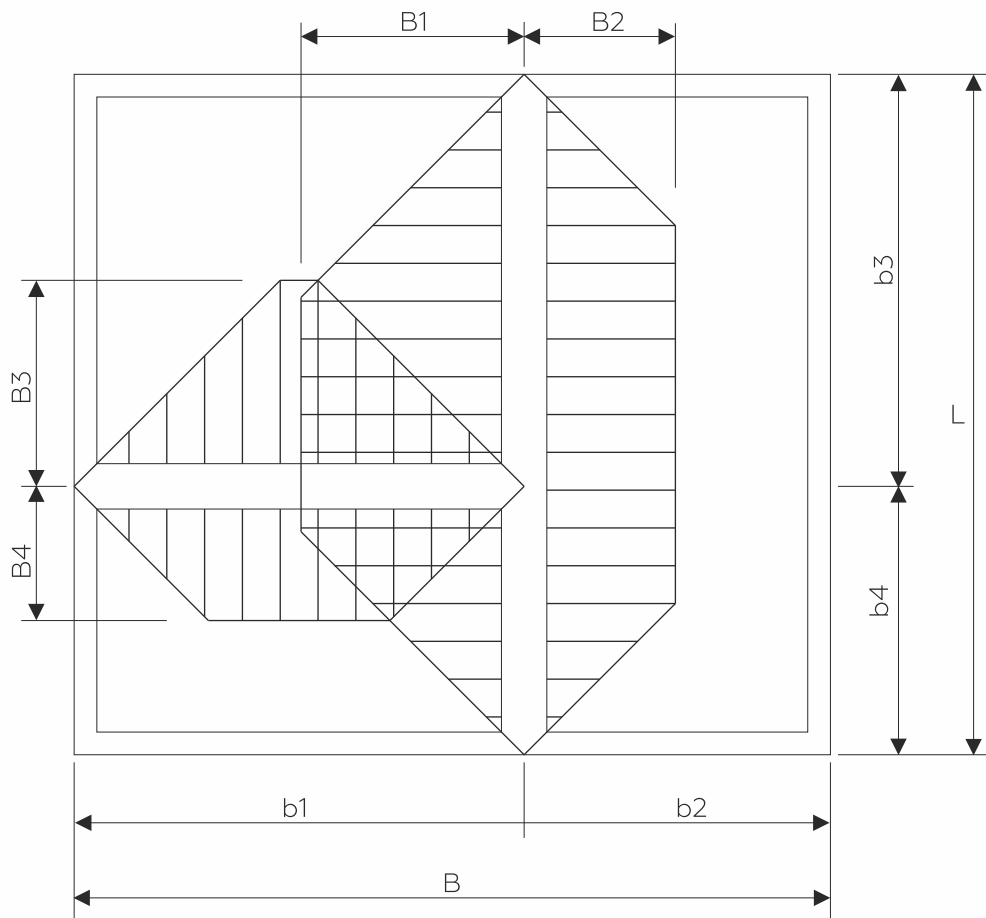
- V08 / 2,0 mm / $I_x = 1,51 \text{ cm}^4$; $I_y = 3,53 \text{ cm}^4$
- V08 / 1,5 mm / $I_x = 1,24 \text{ cm}^4$; $I_y = 2,80 \text{ cm}^4$
- V08 / 1,2 mm / $I_x = 1,02 \text{ cm}^4$; $I_y = 2,32 \text{ cm}^4$

The graphics for choosing reinforcement profiles for laminated profiles are with dotted line.



EXPERT WP 6000

Calculation of the moment of inertia



Calculating the moment of inertia

$$I_H = \frac{W \cdot L^4 \cdot B/2}{1920 \cdot E \cdot f} \left[25 - 40 \left(\frac{B}{L} \right)^2 + 16 \left(\frac{B}{L} \right)^4 \right]; \text{ cm}^4$$

W- Wind pressure N/mm²

Height of the building 0-8m: **W** = 600 Pa

W=0,0006 N/mm²

Height of the building 8-20m: **W** = 960 Pa

W=0,0096 N/mm²

Height of the building 20-100m: **W** = 1320 Pa

W=0,00132 N/mm²

Height of the building 20-100m: **W** = 1320 Pa

W=0,00132 N/mm²

L - Height; cm

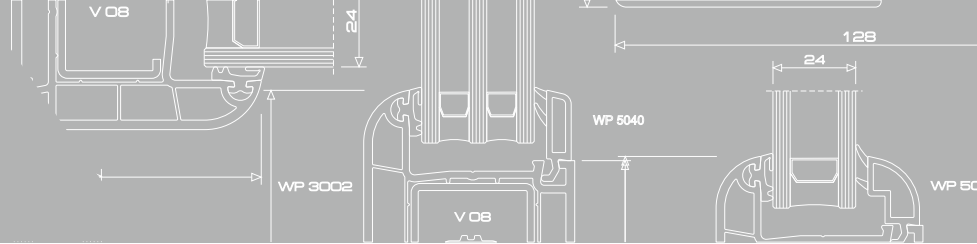
B - Width; cm

E - Elasticity module

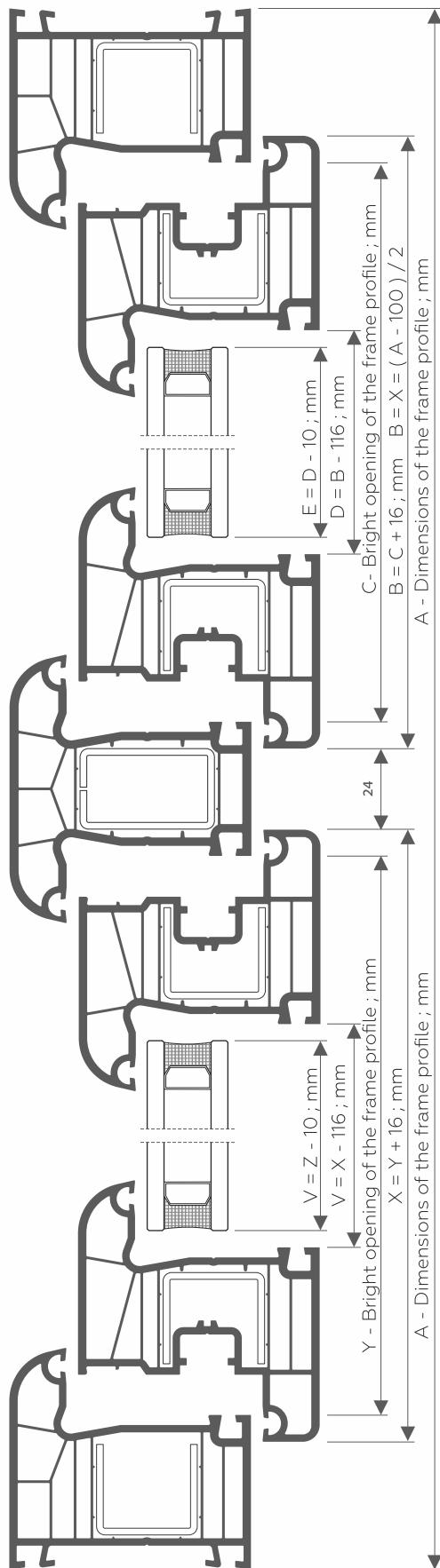
E_{steel} = 210 000 N/mm²

E_{aluminium} = 70 000 N/mm²

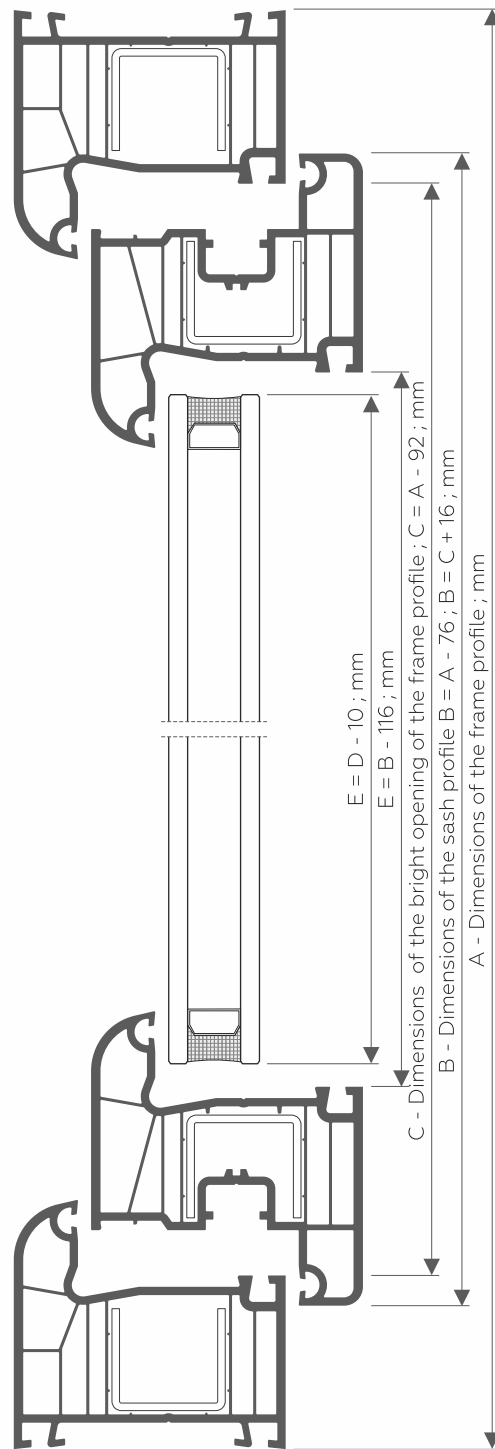
f- Slack eligibility (f=L/300; f<0,8 cm)

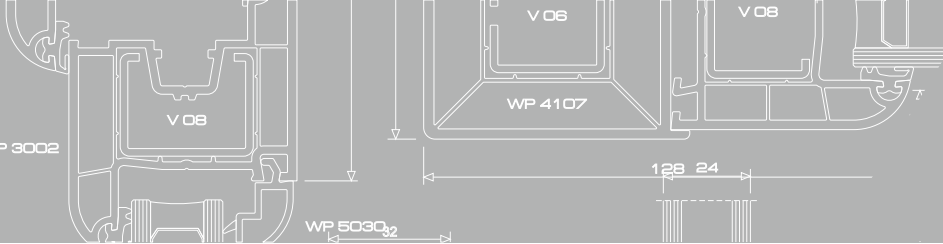


Double opening window with mullion

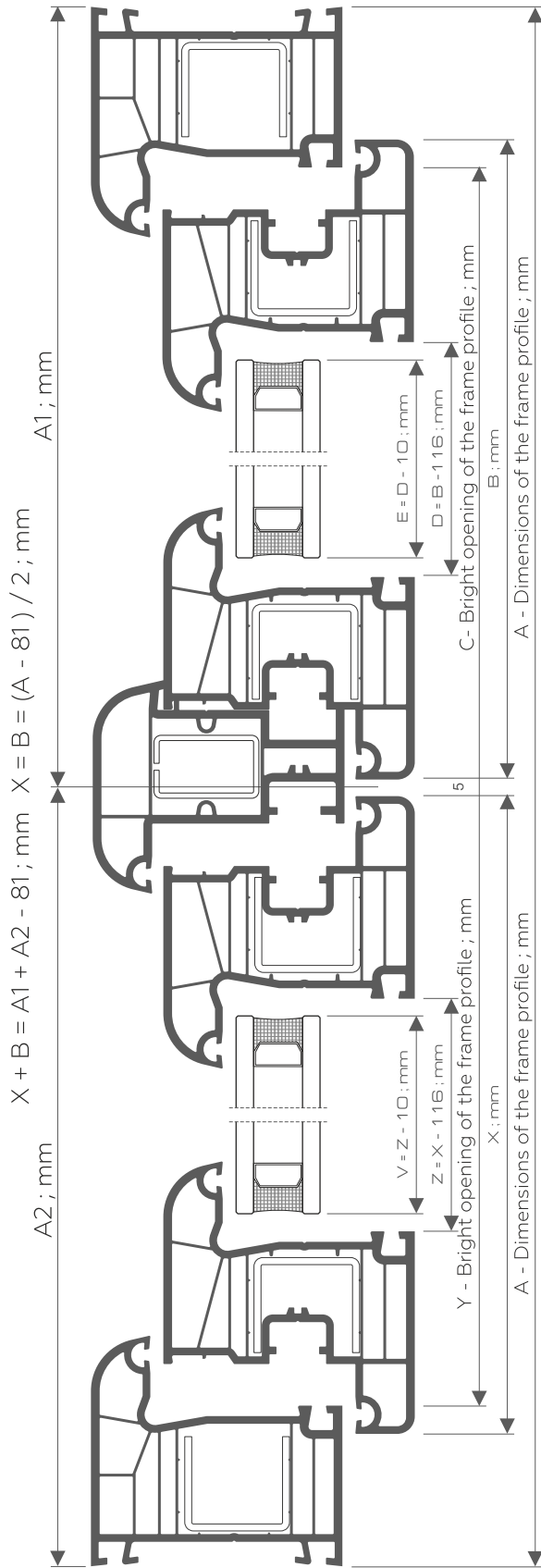


A single opening window

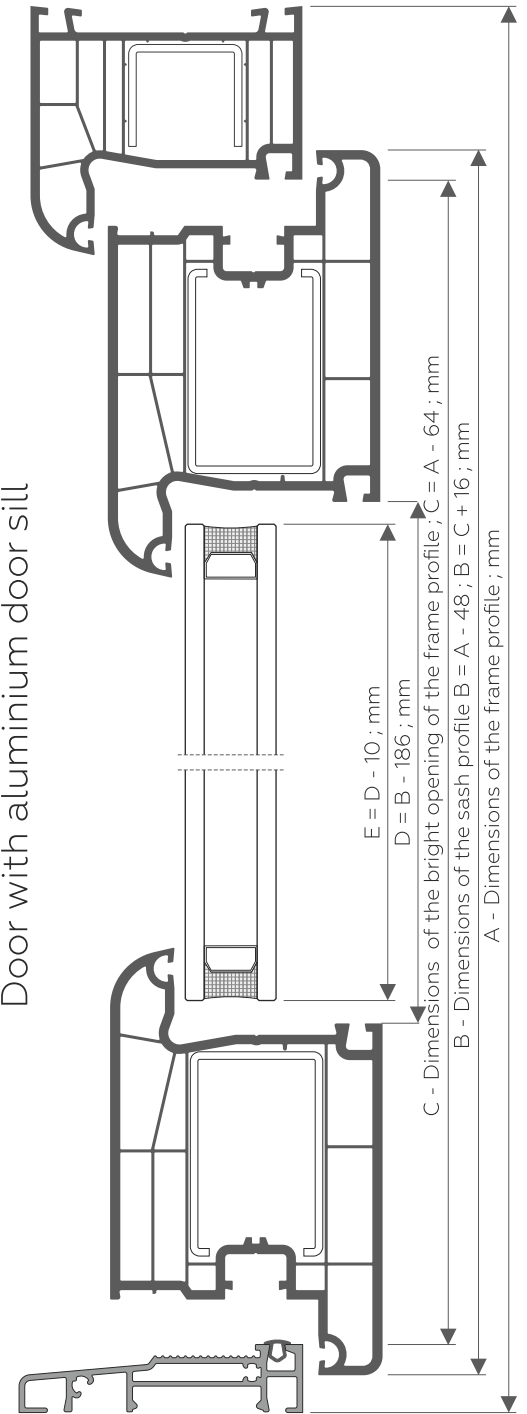




Double opening window with a lap joint profile

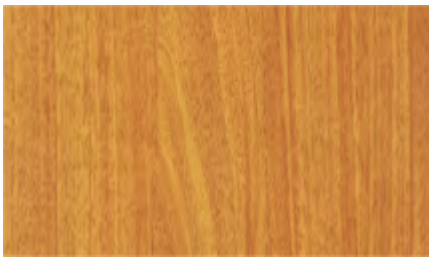
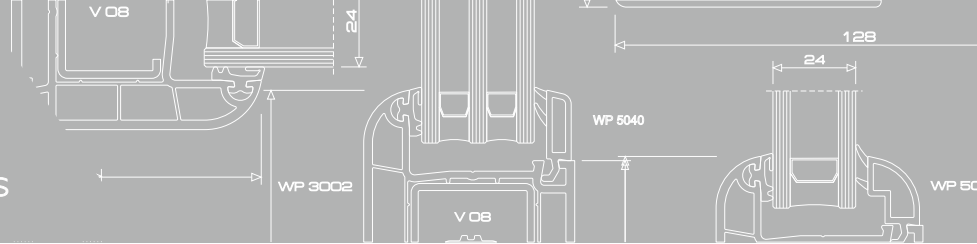


Door with aluminium door sill

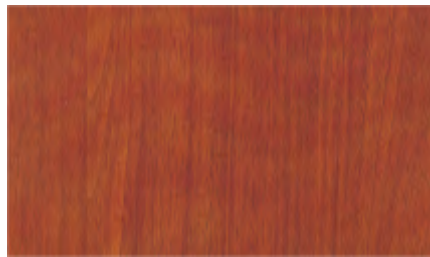


EXPERT WP 6000

Profiles with laminate and arcs



Light walnut



Dark walnut



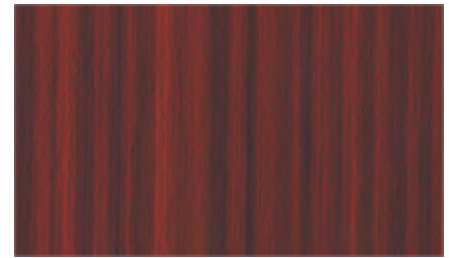
Cherry



Golden oak



Dark oak



Mahogany

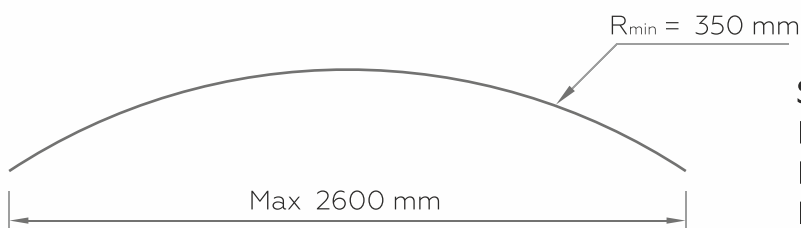


Arcs:

Minimum radius of the arc: 350mm.

Maximum radius: 2860mm.

Maximum length of the chord: 2000 mm.

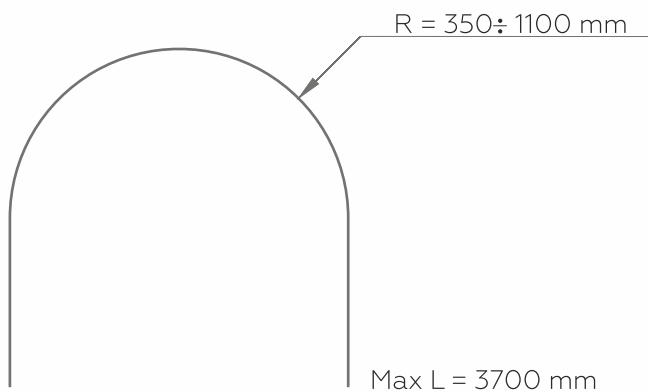



Semicircles:

Minimum radius of the semicircle: 350mm.

Maximum radius: 880mm.

Maximum length of the curve together with the two verticals: 3700 mm.





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