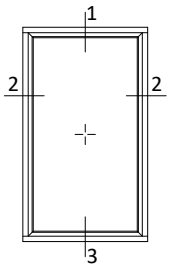
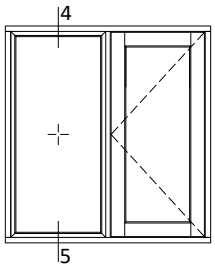
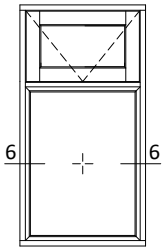
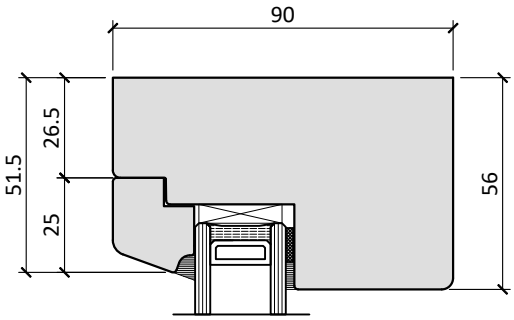
E-90



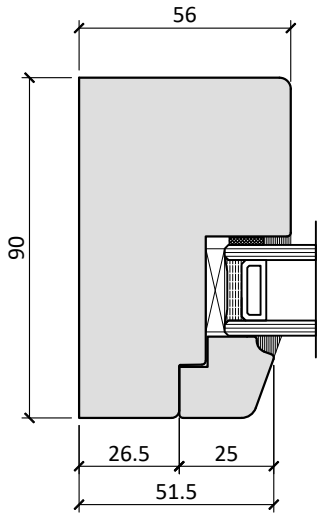




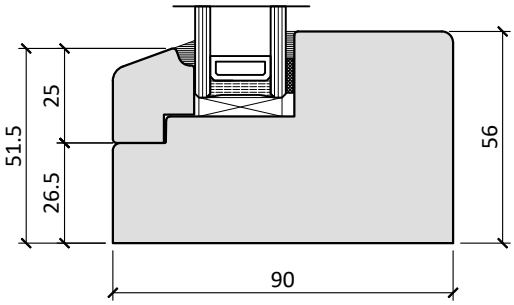
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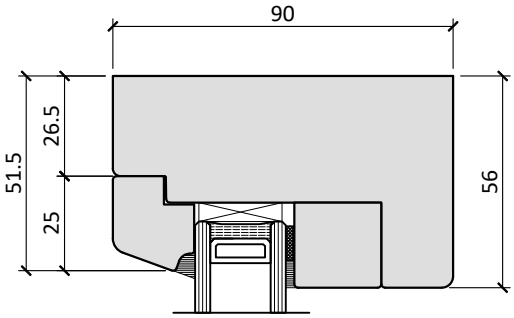
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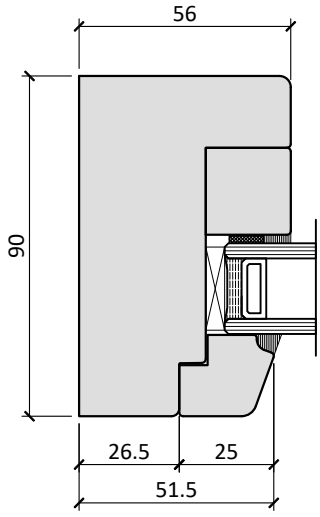
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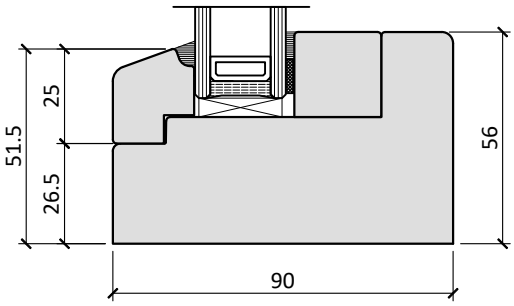
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E-90-6



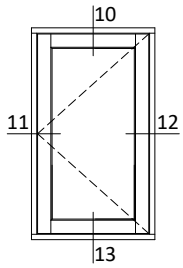
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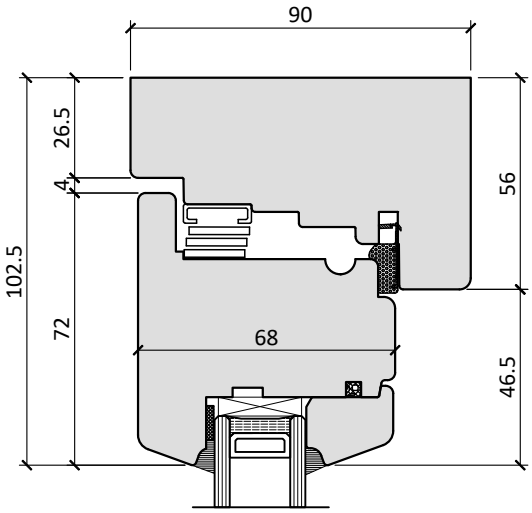
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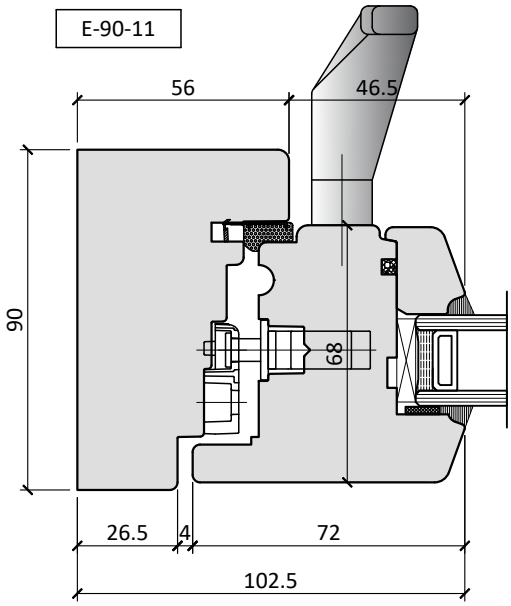
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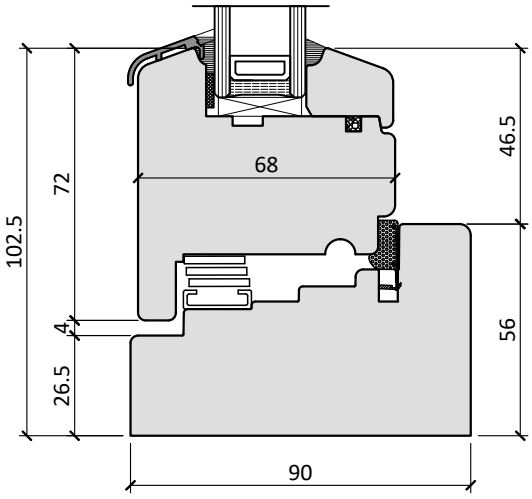
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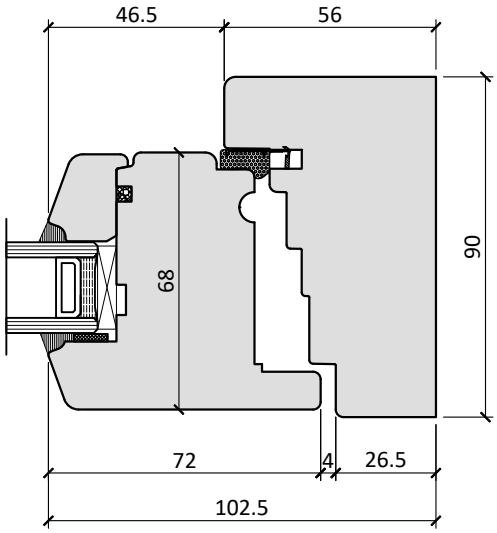
E-90-11



E-90-13

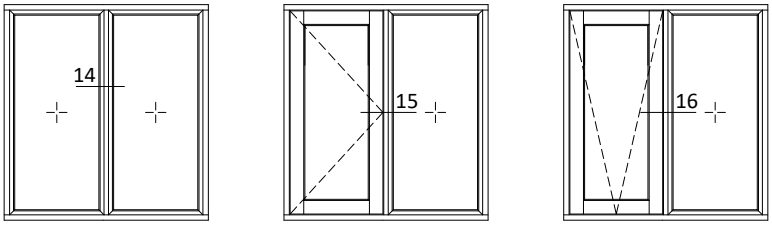


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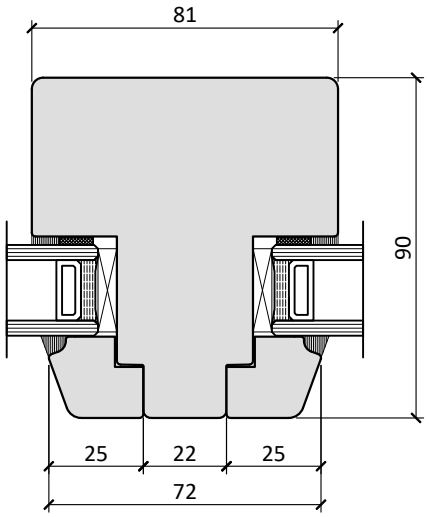


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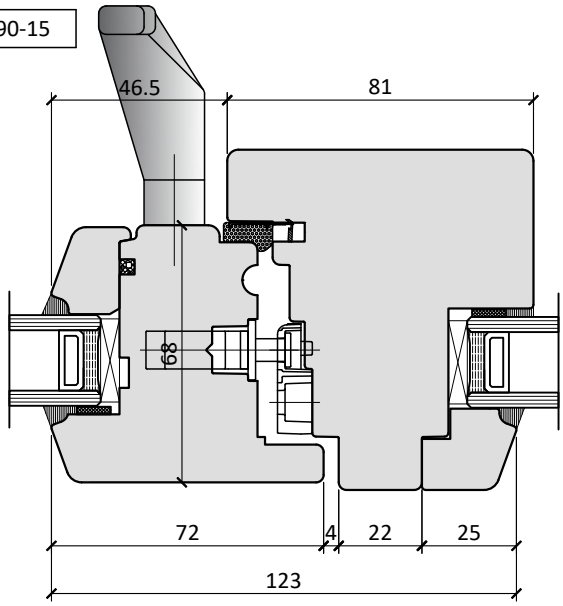
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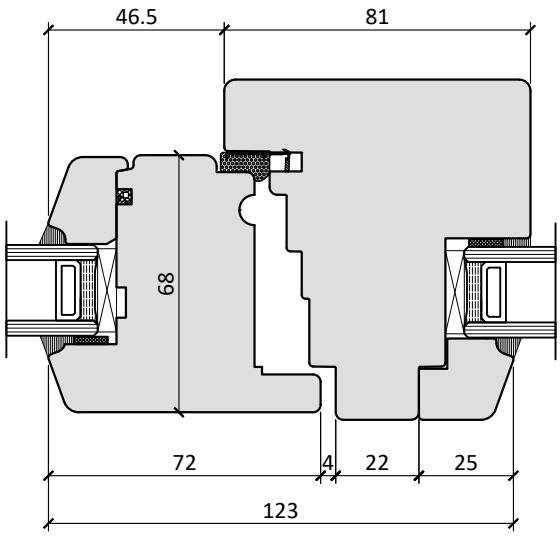
E-90-14



E-90-15



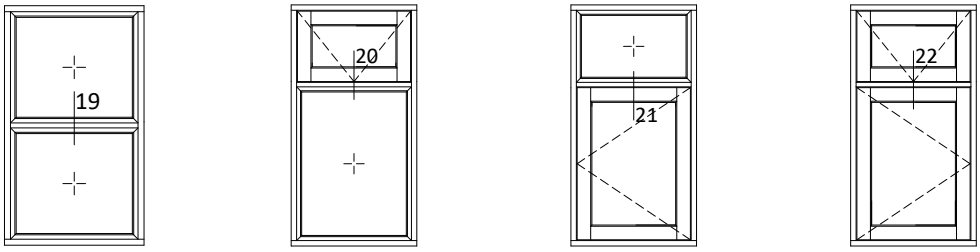
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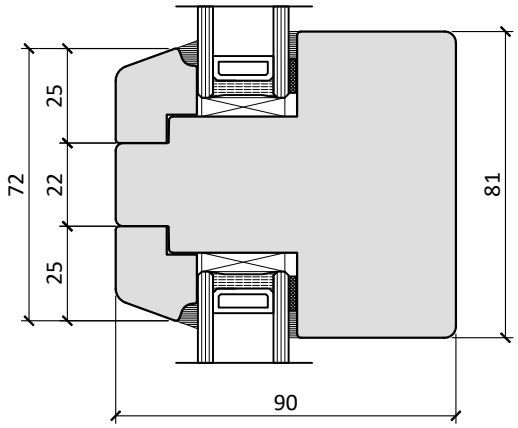
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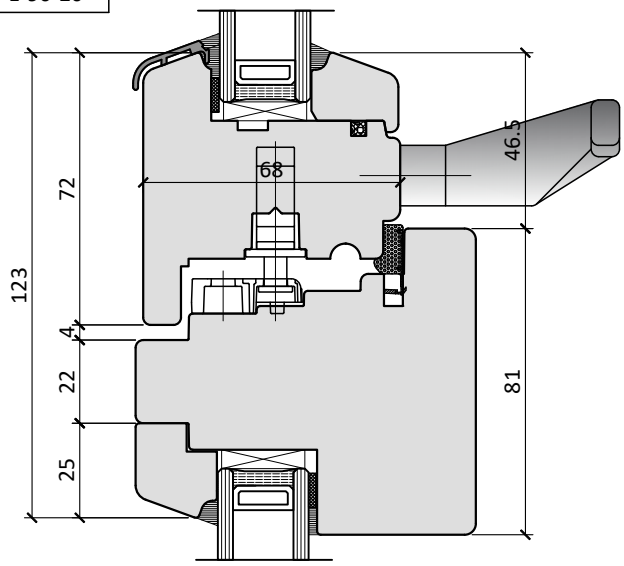
E-90



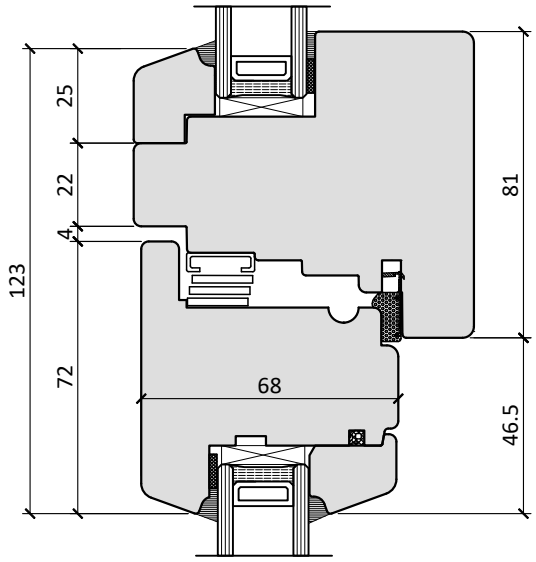
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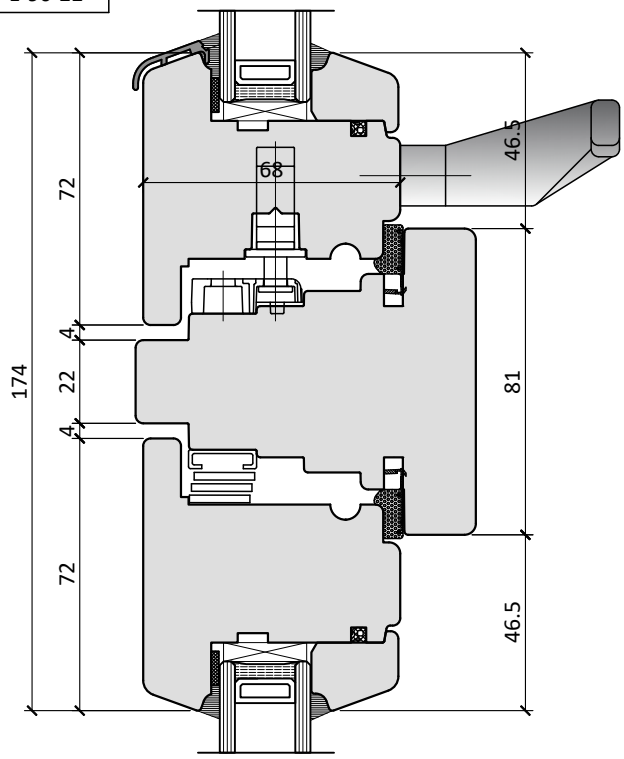
E-90-20



E-90-21

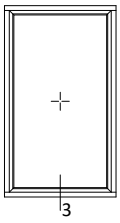


E-90-22



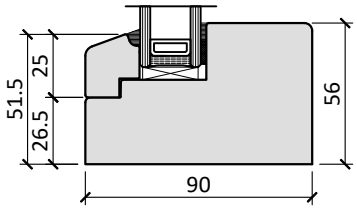
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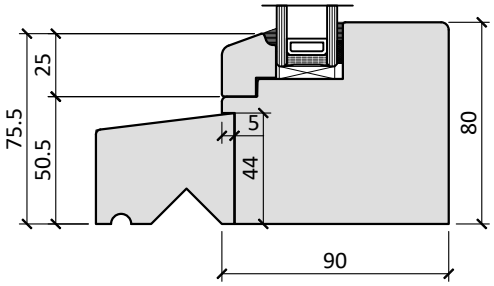
DEFAULT CILL PROFILE

E-90-3

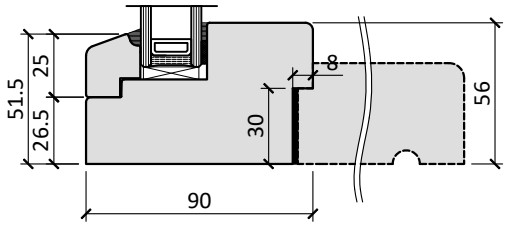


DIFFERENT AVAILABLE CILL PROFILE OPTIONS

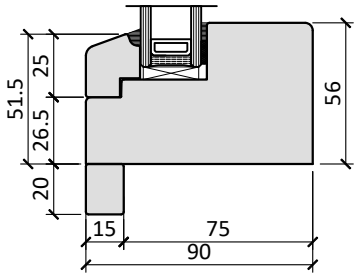
E-90-3B



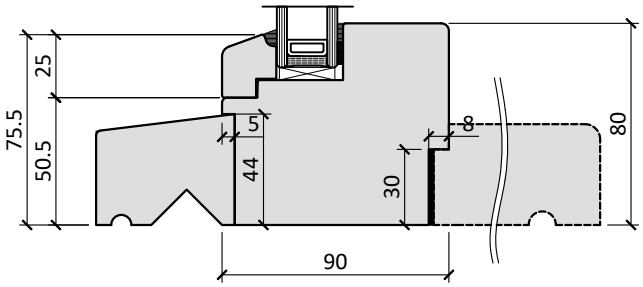
E-90-3A



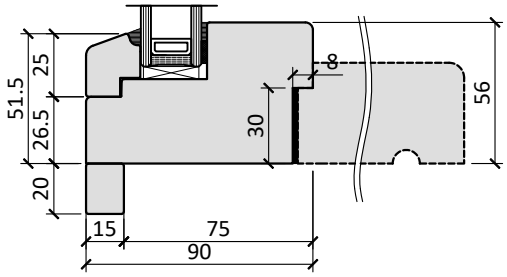
E-90-3D



E-90-3C

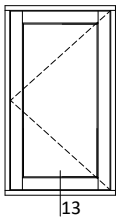


E-90-3E



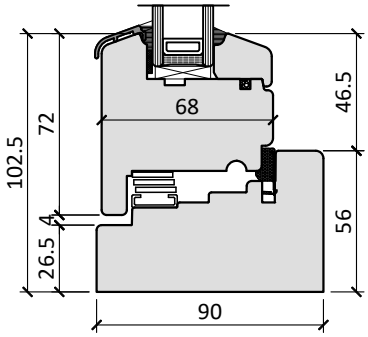
Scale 1:3

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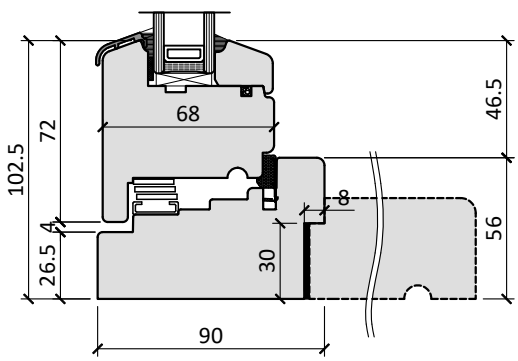
DEFAULT CILL PROFILE

E-90-13

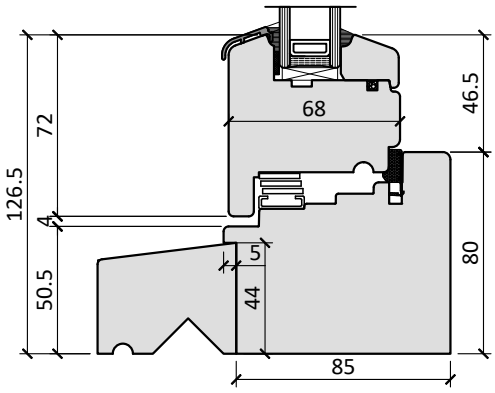


DIFFERENT AVAILABLE CILL PROFILE OPTIONS

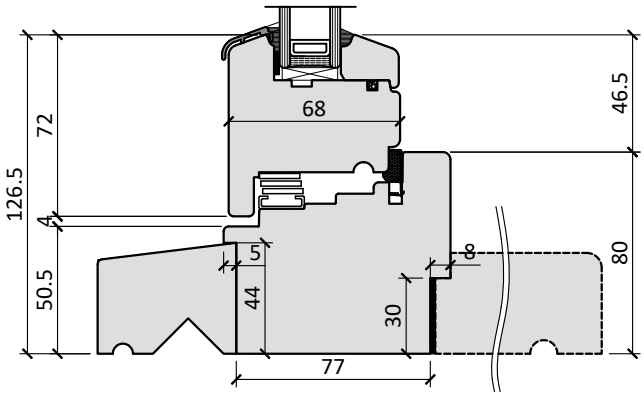
E-90-13A



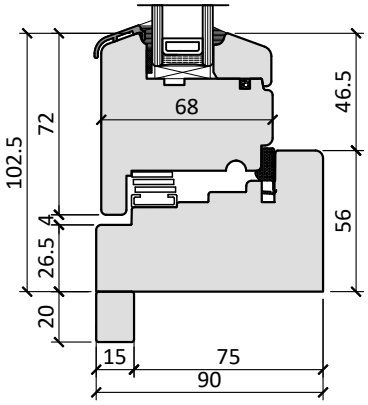
E-90-13B



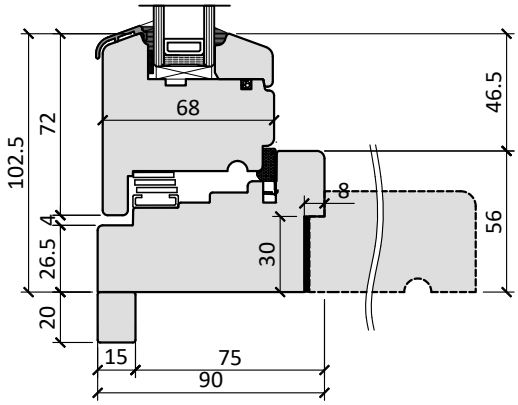
E-90-13C



E-90-13D



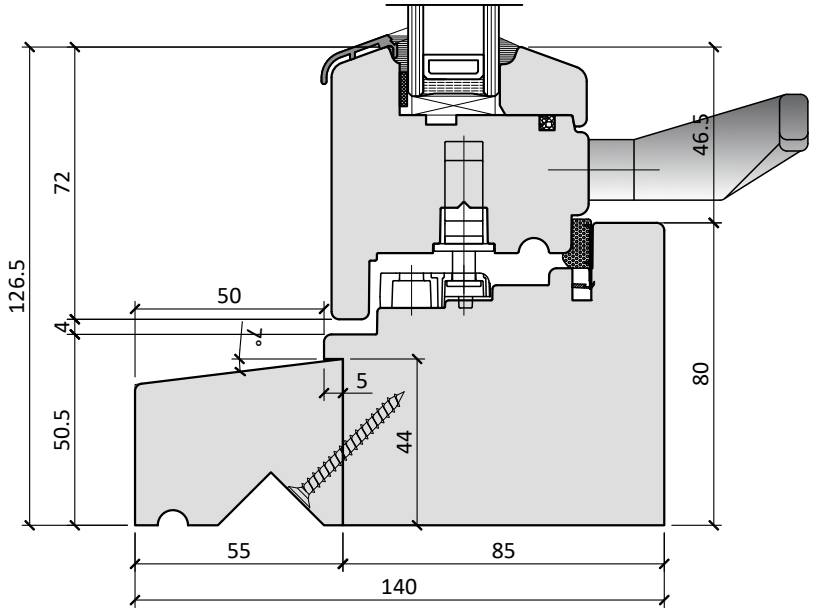
E-90-13E



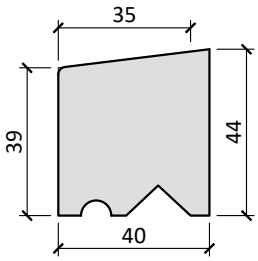
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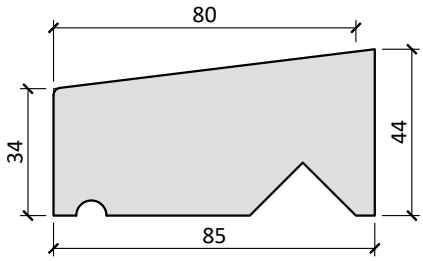
E-90-9-C



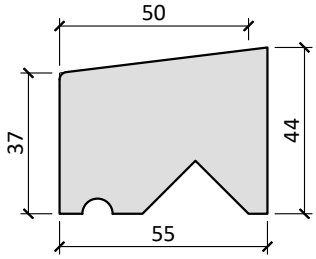
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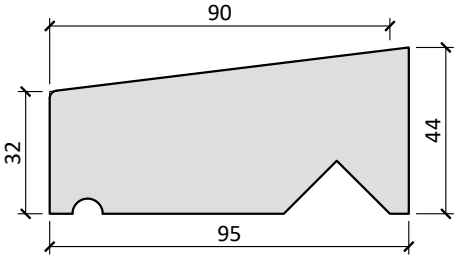
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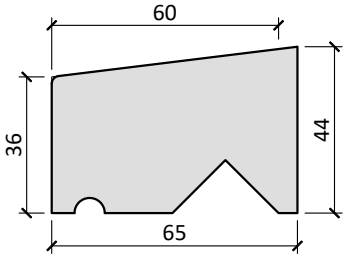
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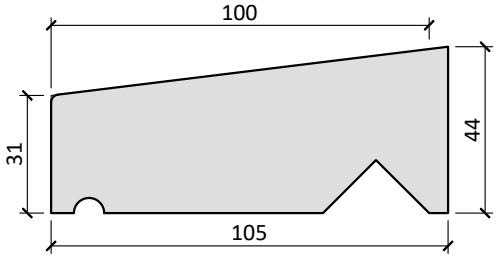
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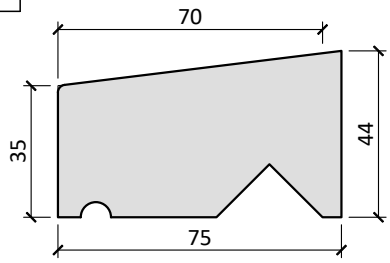
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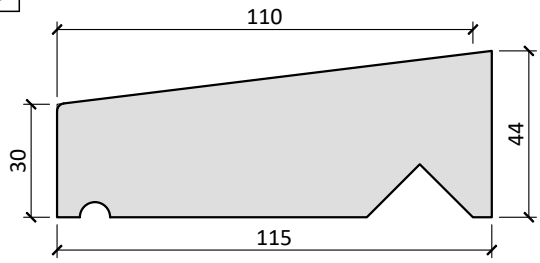
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C70



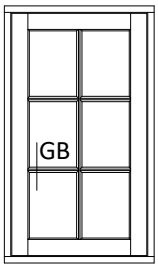
C110

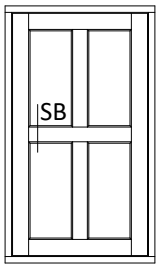


Note. Cill extensions are manufactured from Sapele hardwood in all cases. Please consider when choosing stain finish externally (for example, softwood pine window with cill extension and stain finish externally)

Scale 1:2

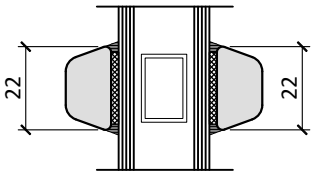
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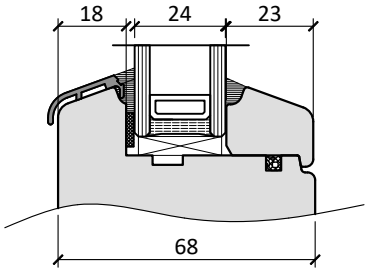




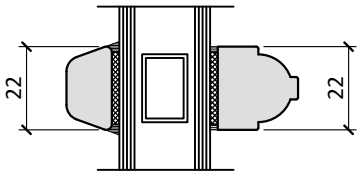
GLAZING BARS & BEADS

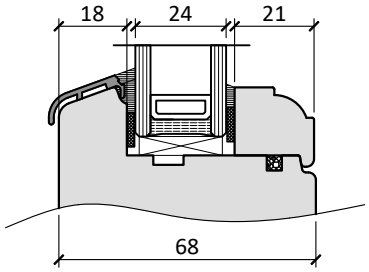
SPLAYED



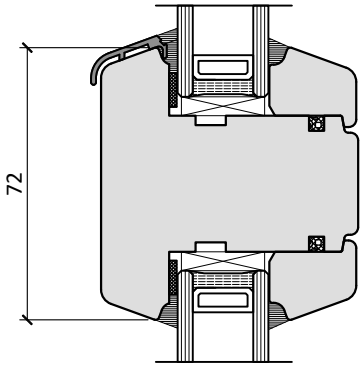


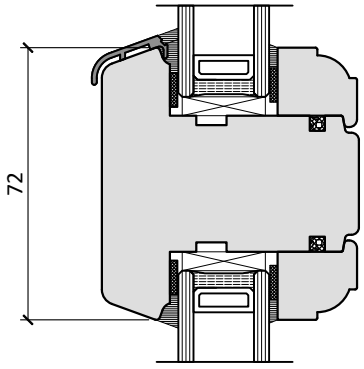
OVOLO





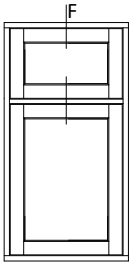
SOLID SASH BAR



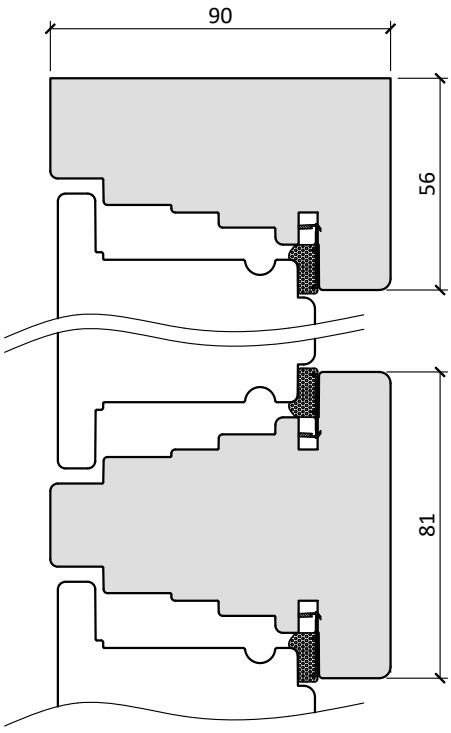


Scale 1:2

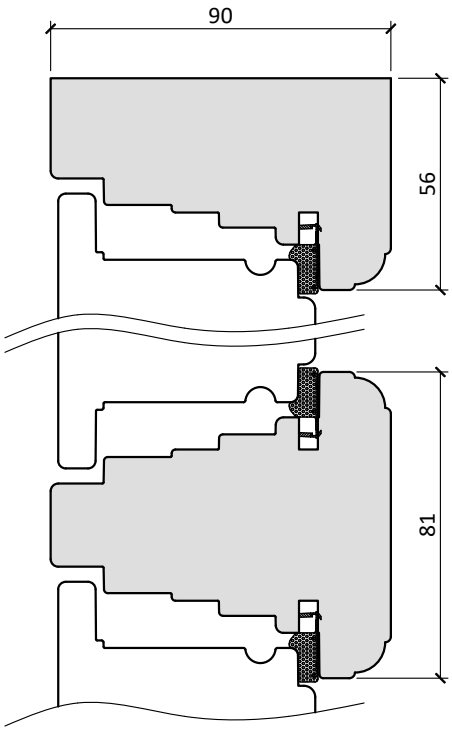
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SQUARE FRAME

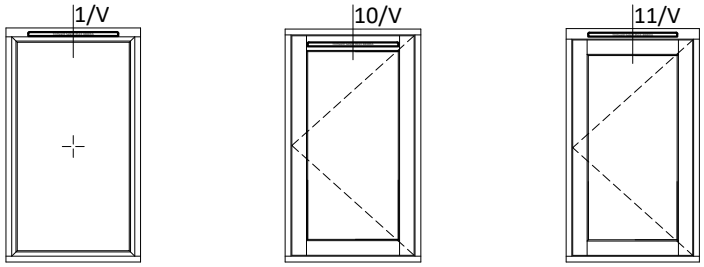


OVOLO FRAME

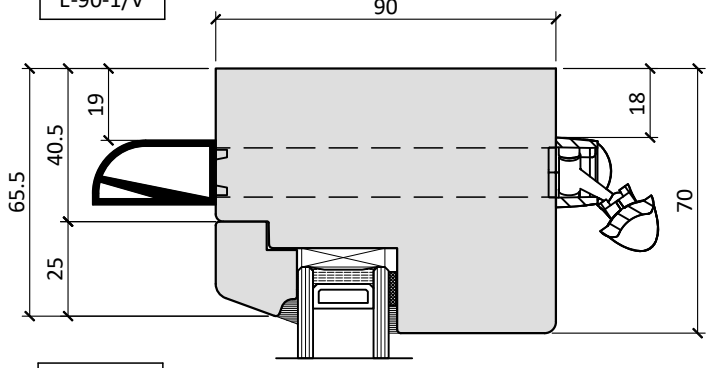


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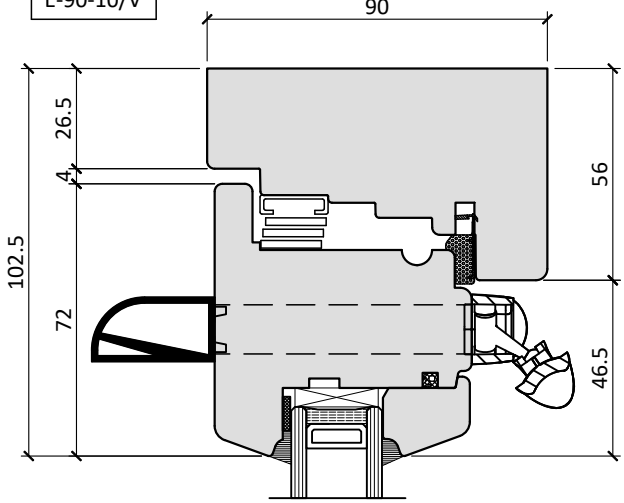
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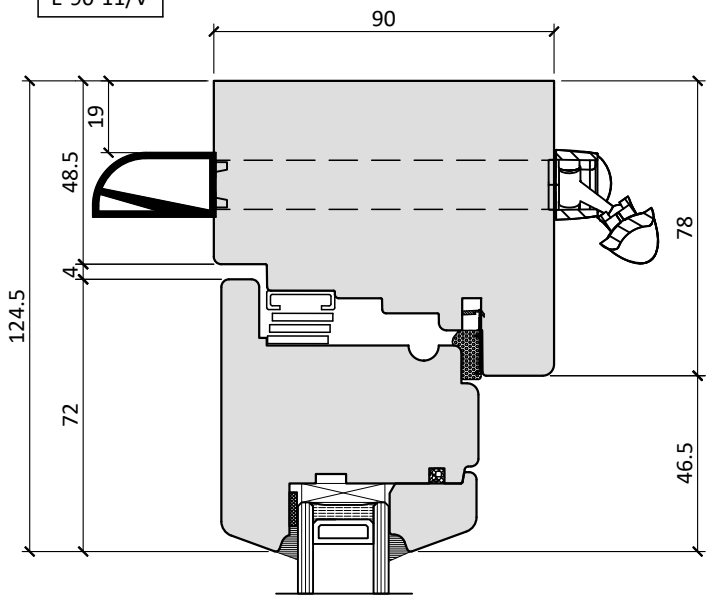
E-90-1/V

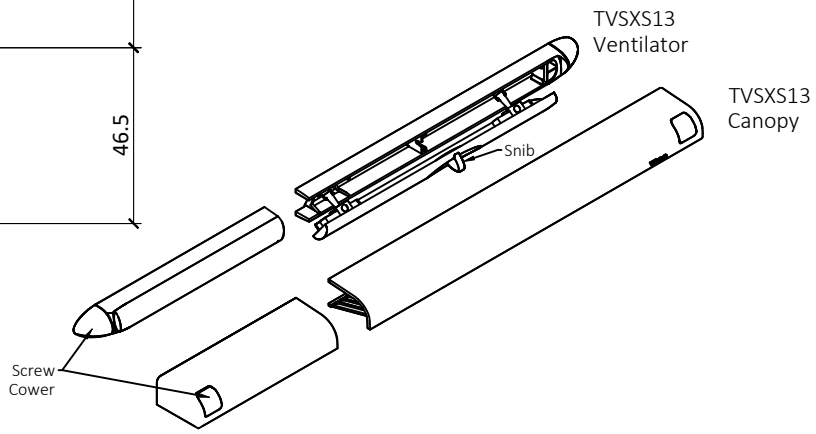


E-90-10/V



E-90-11/V





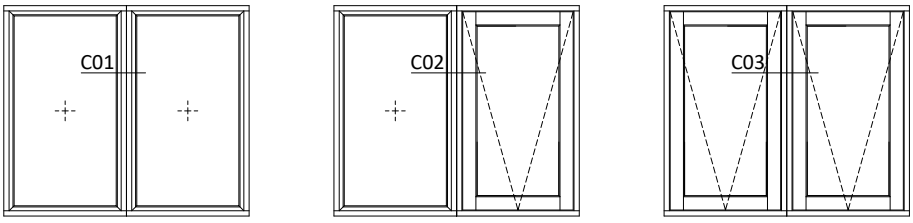
TRICKLE VENT AVAILABLE IN DIFFERENT
AIR FLOW VALUE, DEPENDING ON THE WINDOW WIDTH:

Type	When fitted through the sash		When fitted through the frame		Available finishes
	Minimal sash width (mm)	Minimal frame* width (mm)	Minimal frame* width (mm)	Minimal fixed frame** width (mm)	
Trimvent Select S13 2000 EA	464	525	426	418	White Grey Brown Black
Trimvent Select XS13 4400 EA	606	667	568	560	
TV4000HL 2200 EA	464	525	426	418	
TV4000HL 4000 EA	606	667	568	560	

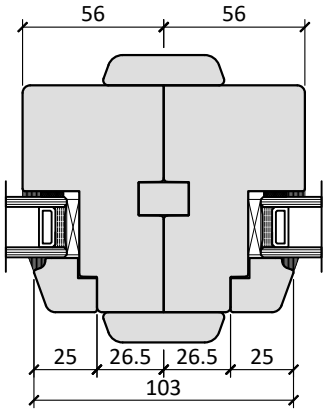
* - BASED ON A SINGLE WINDOW WITH STANDARD 68X72MM WIDTH JAMBS
** - BASED ON A SINGLE FIXED WINDOW WITH STANDARD 90X56MM WIDTH JAMBS

Scale 1:2

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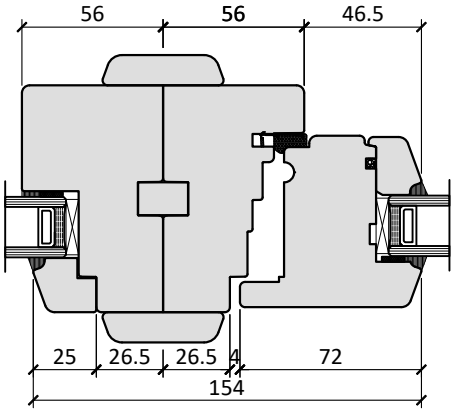


E-90-C01

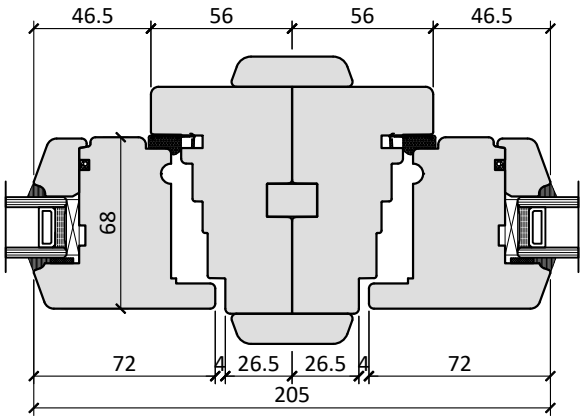


one of the glass units is supplied not sealed with silicone and temporary fixed with glazing bead for easier frame fixing on site

E-90-C02

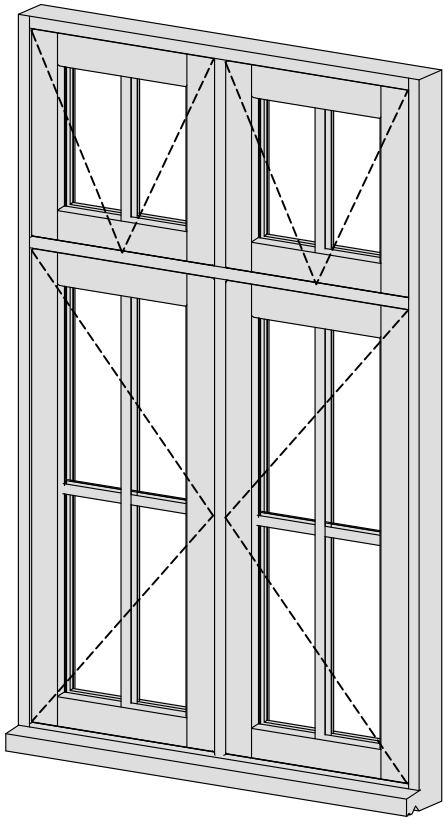


E-90-C03



Scale 1:3

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ENERGY										
Thermal Insulation EN ISO 10077-1	68 FLUSH CASEMENT **DOUBLE GLAZED ONLY**					78 FLUSH CASEMENT **TRIPLE GLAZED ONLY**				
	Uw value 1.3 W/m²K					Uw value 0.8 W/m²K				
COMFORT										
Air permeability EN 1026; EN 12207	1 (150 Pa)		2 (300 Pa)			3 (600 Pa)		4 (600 Pa)		
Water tightness EN 1027; EN 12208	1A (0 Pa)	2A (50 Pa)	3A (100 Pa)	4A (150 Pa)	5A (200 Pa)	6A (250 Pa)	7A (300 Pa)	8A (450 Pa)	9A (600 Pa)	E (900 Pa)
Wind resistance EN 1221; EN 12210	1 (400 Pa)		2 (800 Pa)		3 (1200 Pa)	4 (1600 Pa)		5 (2000 Pa)		Exxx (>2000 Pa)
Wind load resistance to frame deflection EN 1221; EN 12210	A (≤1/150)			B (≤1/200)				C (≤1/300)		
SAFETY										
Burglar resistance PAS 24:2012	COMPLIANT									

(1) Calculation based on window size 1.23m wide x 1.48m high.

(2) 68 Flush Casement U value calculation based on double glazed unit with centre pane U value Ug=1.1 W/m²K.

(3) 78 Flush Casement U value calculation based on triple glazed unit with centre pane U value Ug=0.5 W/m²K.

(4) The air tightness test measures the volume of air that would pass through a closed window at a certain air pressure.

(5) The water tightness testing involves applying a uniform water spray at increasing air pressure until water penetrates the window.

(6) The wind load resistance is a measure of the profile's structural strength and is tested by applying increasing levels of air pressure to simulate the wind force.