

# Schüco CT 70

System presentation



# Schüco CT 70

System presentation

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Weißenfels, December 2023

**SCHÜCO**

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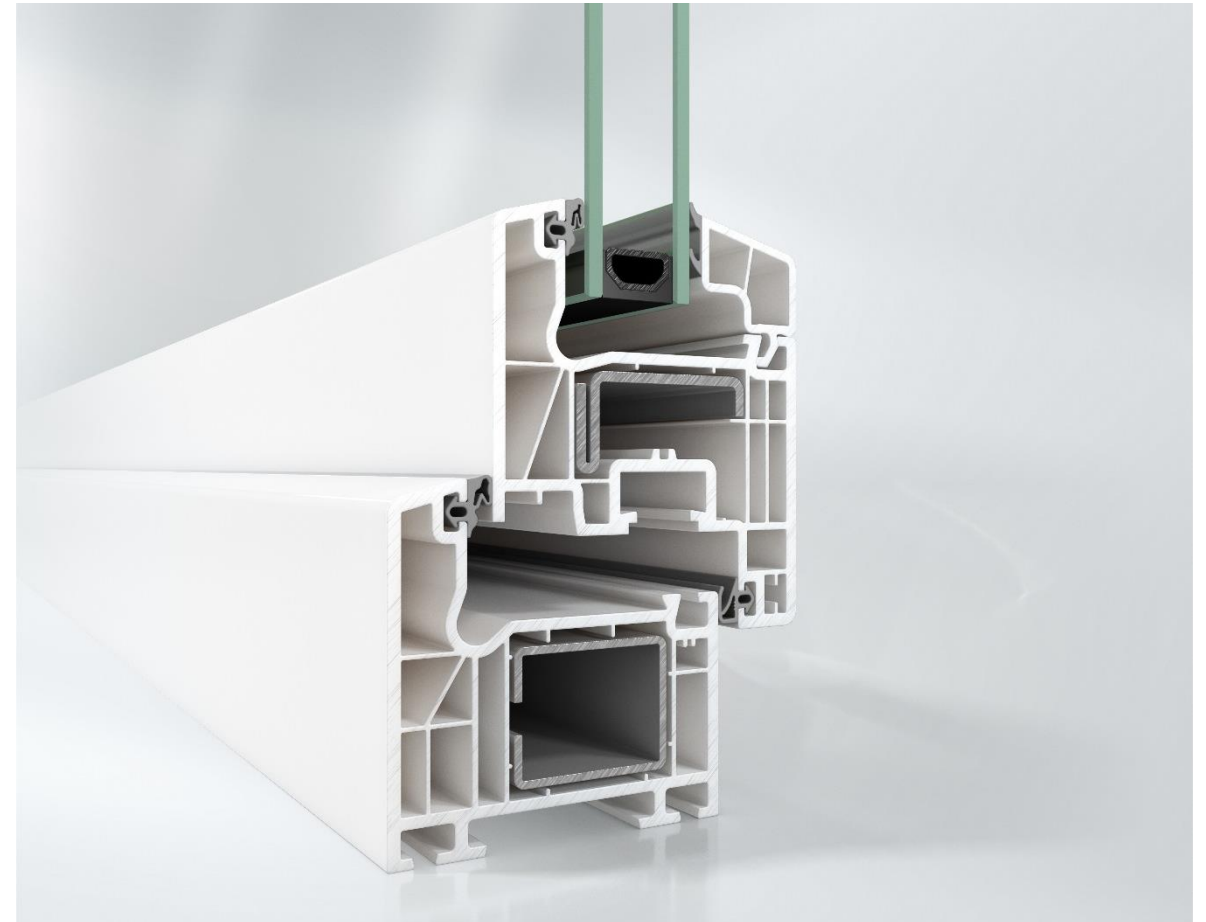
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## Schüco CT 70

With its rebate gasket system, **Schüco CT 70** is perfect for use in renovation projects and newbuilds.

The Schüco CT 70 system is based on a 5-chamber construction with a basic depth of 70 mm, guaranteeing good thermal insulation.

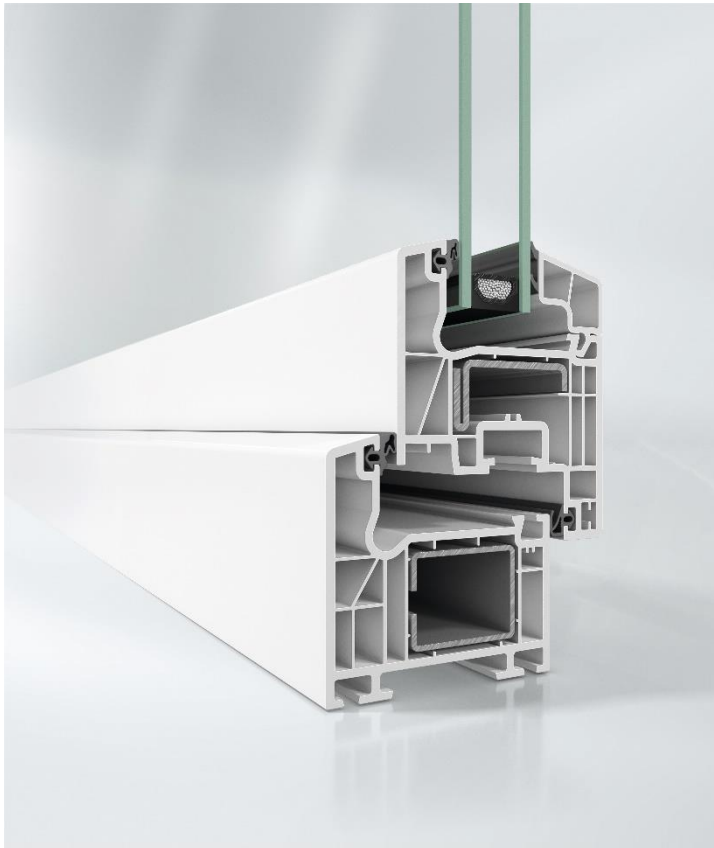
Narrow face widths ensure plenty of light and thanks to the two continuous gasket levels, the unit's excellent sound reduction provides additional comfort for the user.



# Schüco CT 70

## 3 vent designs

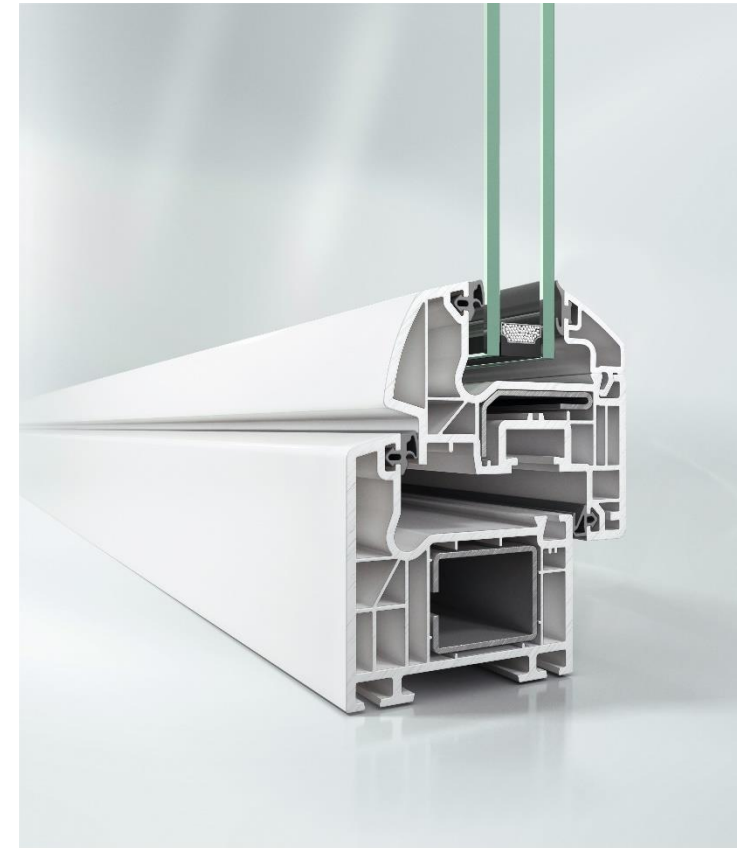
### Classic



### Rondo

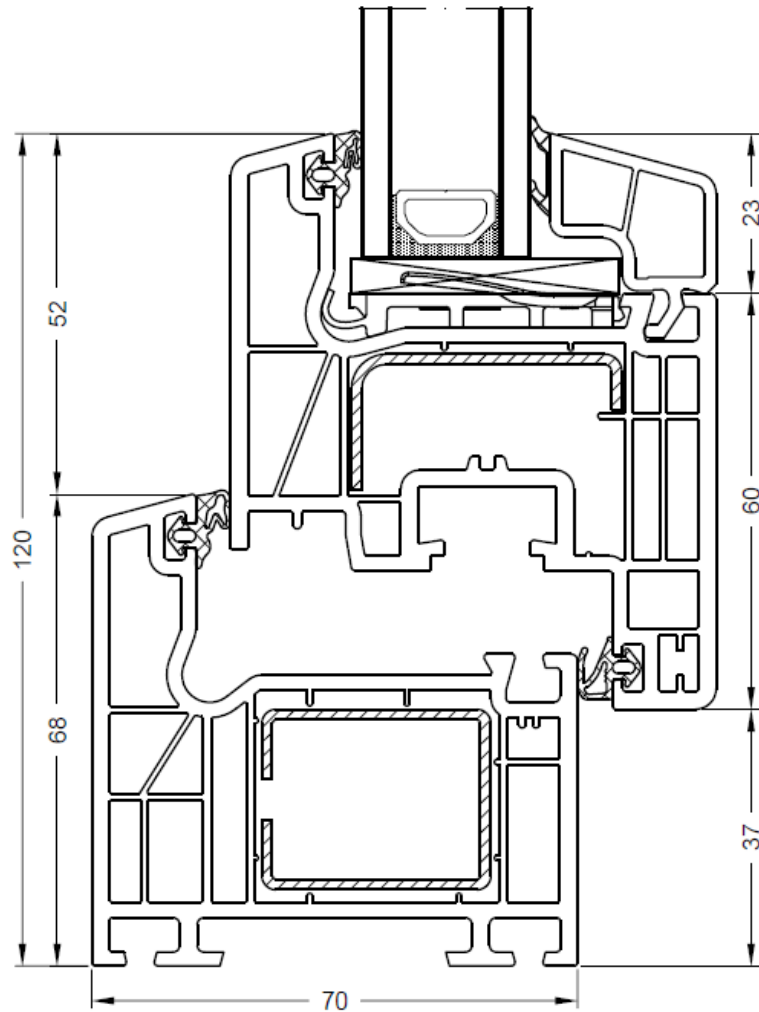


### Vision



# Schüco CT 70

## System features



### System dimensions

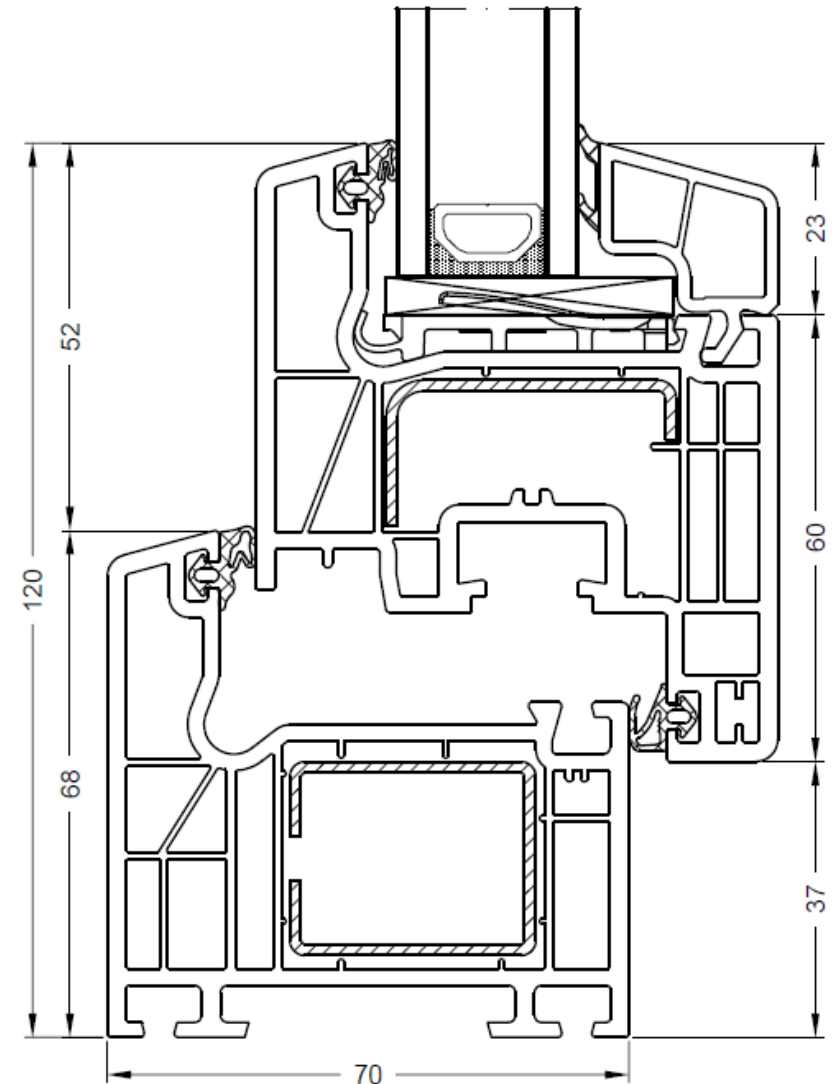
- Basic depth: 70 mm
- Standard face width: 120 mm
- Glass edge cover of 18 mm (glazing bead height: 23 mm)
- Vent frame rebate height: 5 mm  
Outer frame rebate height: 3 mm
- 8 mm vent overlap on inside and outside
- Glazing from 6 - 42 mm possible

# Schüco CT 70

## System features

### Operational reliability

- Excellent accommodation of tolerances due to 5 mm gasket clearance between outer frame and vent frame
- Perfectly sized reinforcing chambers to meet the highest structural requirements
- Fittings axis of 13 mm allows the use of burglar-resistant fittings components
- Security keeps can be fixed in the steel reinforcement using screws
- Special screw ports for fixing the corner pivot in the vent

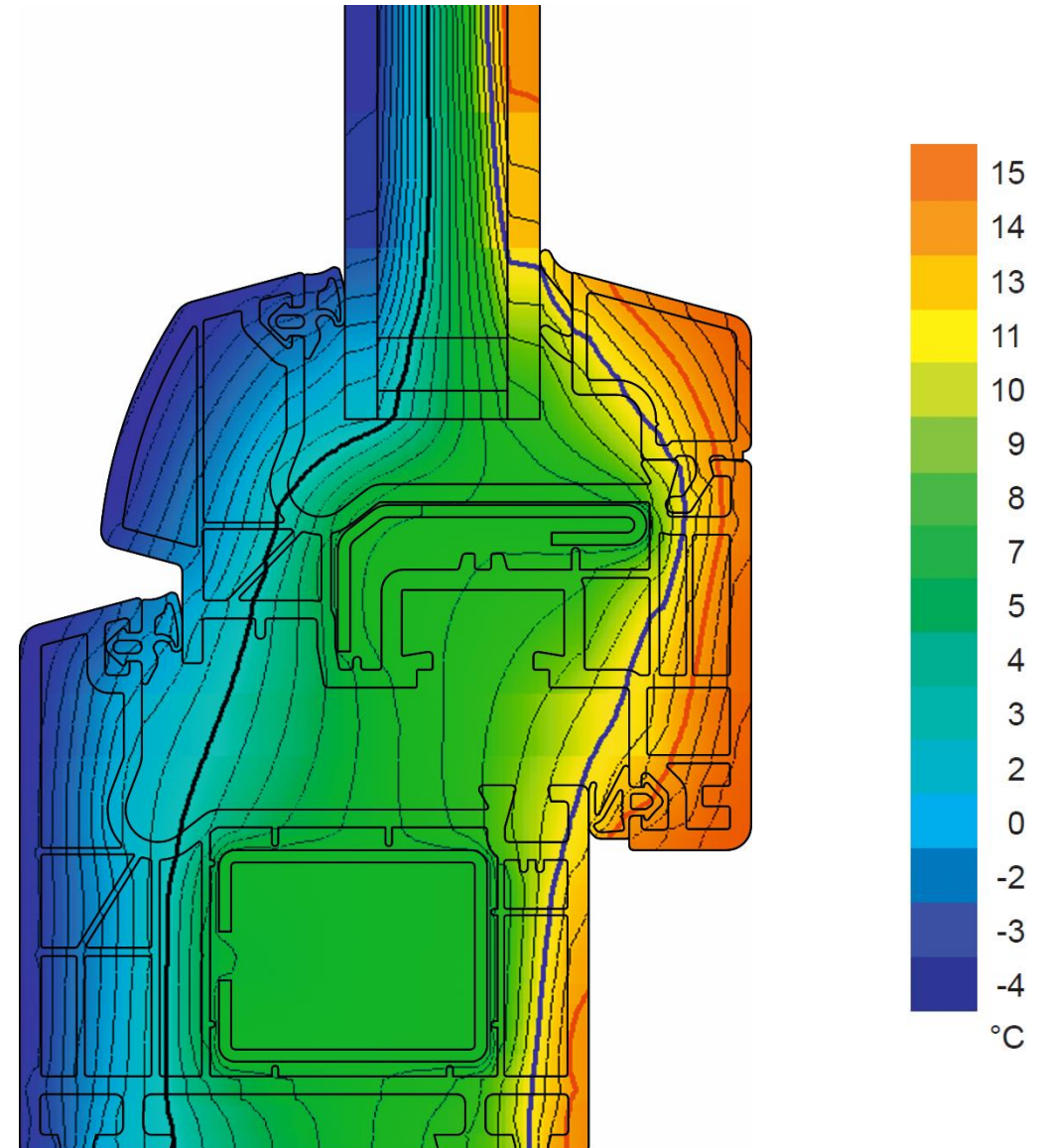


# Schüco CT 70

## System features

### Thermal insulation

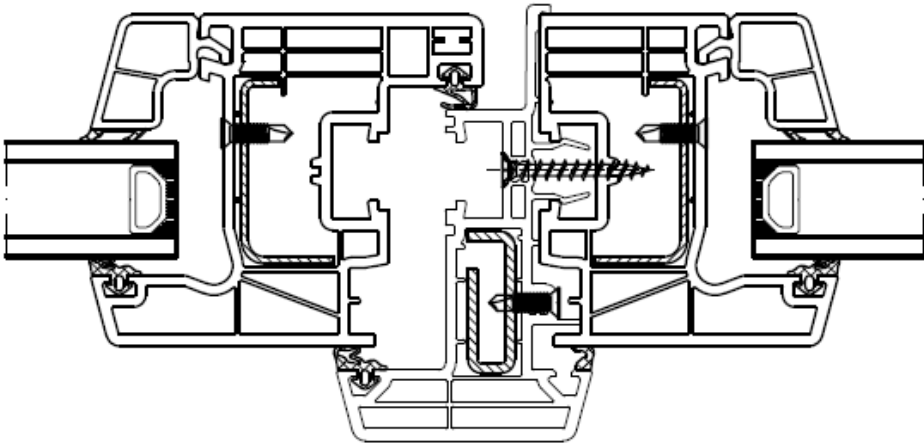
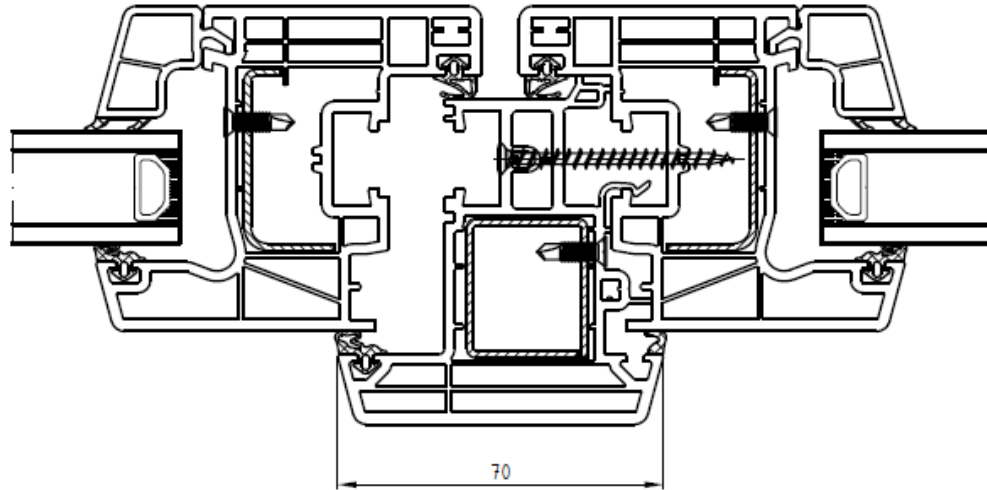
- 5-chamber profile constructions with a basic frame depth of 70 mm
- Triple glazing with a glass thickness of up to 42 mm possible
- Glass edge cover of 18 mm for minimal heat loss in the glass seal area (glazing bead height: 23 mm)
- $U_f$  values to 1.2 W/(m<sup>2</sup>K)





# Schüco CT 70

## System features

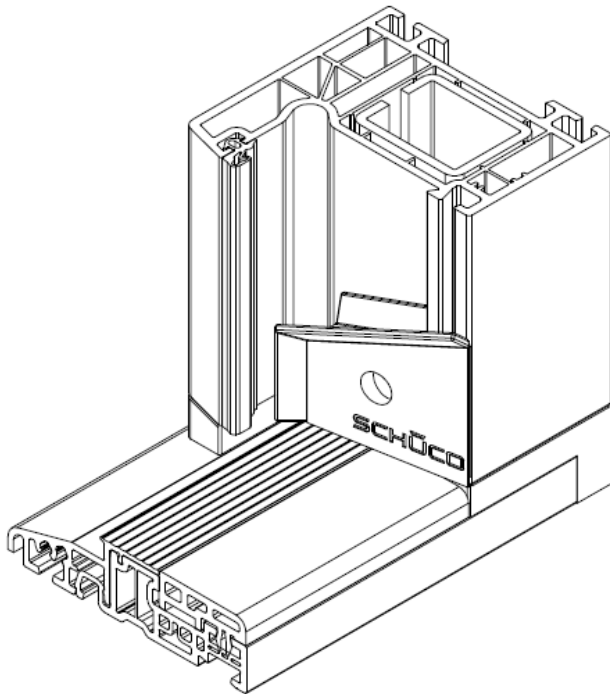
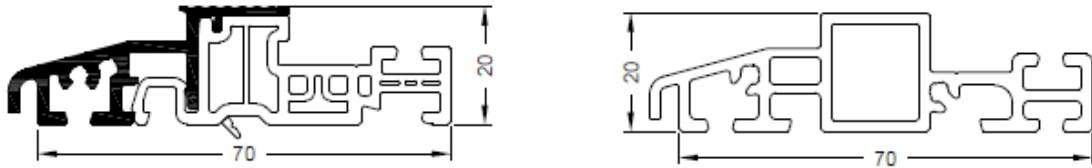


### Double-vent profiles

- Clip hook on the double-vent profiles as a positioning aid for simple installation
- Double-vent end caps, 1 and 2-part: colour coordinated with base material colours (white, cream white, caramel, dark grey, black)
- Coloured double-vent profiles are ventilated via the end caps

# Schüco CT 70

## System features



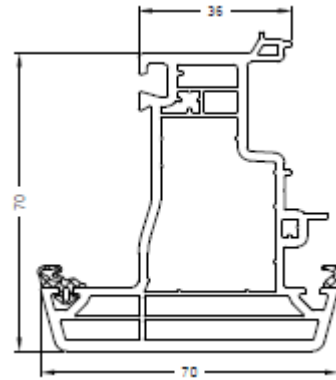
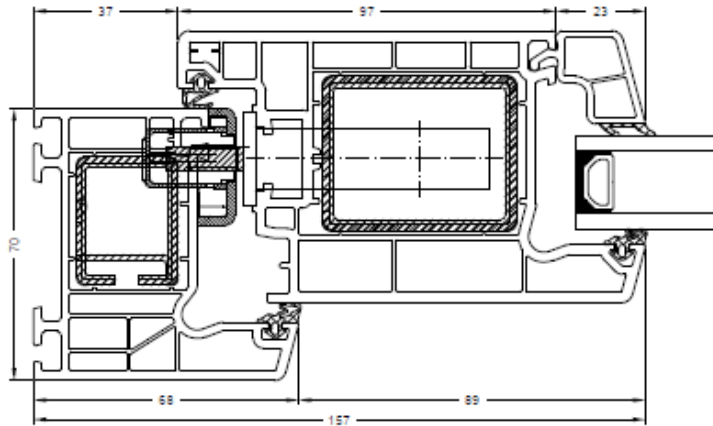
### Door thresholds

- Can be used for window doors and entrance doors
- Optimal thermal break
- Threshold colours: C35/black, C0/light grey
- Specially adapted wind stop concept in the same colour as the gasket for maximum weathertightness

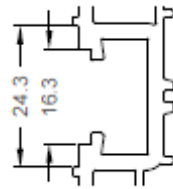
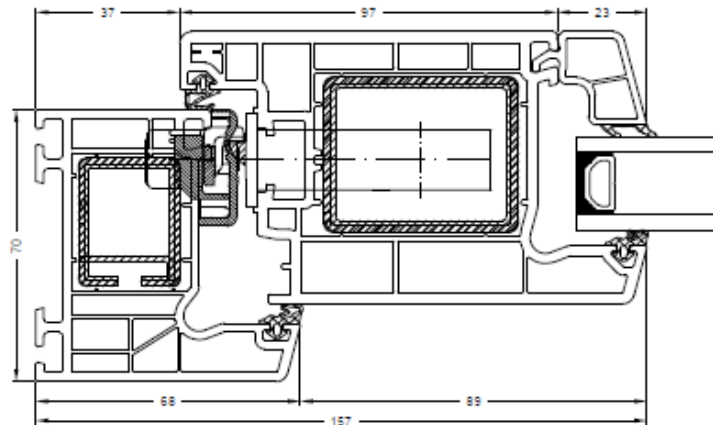
# Schüco CT 70

## System features

### Hauptriegel



### Falle



### Side entrance and entrance doors

- Right-angle reinforcements for the most demanding structural requirements
- Weld-on corner cleats (for entrance doors, expanding on 4 sides for maximum corner stability)
- “Door” meeting stile with smooth rebate and good structural values
- Side entrance doors: Backset of up to 35 mm possible
- Entrance doors: Backset of up to 50 mm possible
- “Duo groove” for 16 and 24 mm meeting stiles

# Schüco CT 70

## System features at a glance

Technische Informationen	Classic / Rondo / Vison	Reno / Mono	Türen
<b>Abmaße</b>			
Bautiefe Blendrahmen	70 mm	70 mm / 100 mm – 180 mm	70 mm
Bautiefe Flügelrahmen	70 mm / 78 mm / 80 mm	70 mm	70 mm
Mögliche Verglasungsstärke	6 mm – 42 mm	6 mm – 42 mm	6 mm – 42 mm
<b>Prüfungen und Normen</b>			
Wärmedämmung nach DIN EN 12412-2	$U_f = 1,2 - 1,5 \text{ W}/(\text{m}^2\text{K})$	$U_f = 1,2 - 1,5 \text{ W}/(\text{m}^2\text{K})$	$U_f = 1,4 - 1,5 \text{ W}/(\text{m}^2\text{K})$
Schalldämmung nach DIN EN ISO 140-3 (maximal) *	$R_{w,p} = 46 \text{ dB}$	$R_{w,p} = 46 \text{ dB}$	$R_{w,p} = 38 \text{ dB}$
Einbruchhemmung nach DIN EN 1627	RC2	RC2	RC2
Luftdurchlässigkeit nach DIN EN 12207 (Klasse)	4	4	2
Schlagregendichtheit nach DIN EN 12208 (Klasse)	9A	9A	4A
Widerstandsfähigkeit bei Windlast DIN EN 12210 (Klasse)**	C5/B5	C5/B5	C2/B2
Mechanische Beanspruchung nach DIN EN 13115 (Klasse)	4	4	3
Dauerfunktion nach DIN EN 12400 (Klasse)	2	2	5
Bedienkräfte nach DIN EN 13115 (Klasse)	1	1	2
Tragfähigkeit von Sicherheitsvorrichtungen	Anforderung erfüllt	Anforderung erfüllt	Anforderung erfüllt

\* Profil- und verglasungsabhängig

\*\* Profilabhängig

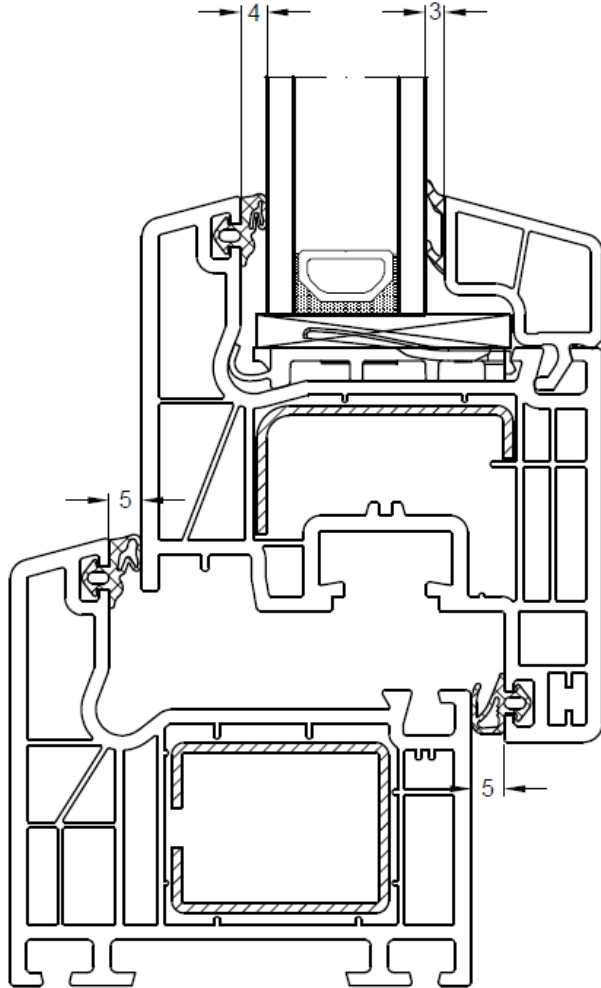
# Gasket system

02



# Schüco CT 70

## System features



### Gasket system

- EPDM gasket material
- Fitted in the factory
- Glazing and outer frame gaskets are identical
- Wide variety of glazing bead options from the standard range
- 5 mm gap for maximum operational reliability

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## Schüco CT 70

### Gasket system

- Gaskets machine-rolled in the factory and made of EPDM rubber with excellent recovery properties and permanent elasticity
- Innovative gasket geometries with wide contact surfaces ensure excellent weathertightness of joints
- The flush-fitting gaskets blend in perfectly with the appearance of the window



# Bonding in the system

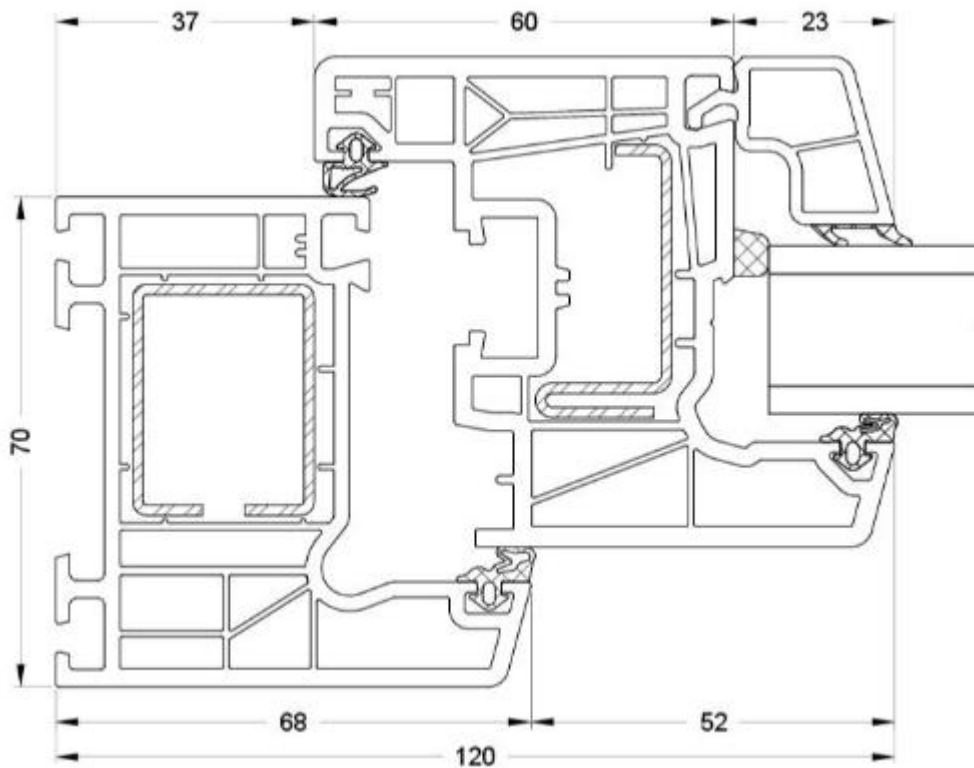
03





# Schüco CT 70

## Adhesive vent

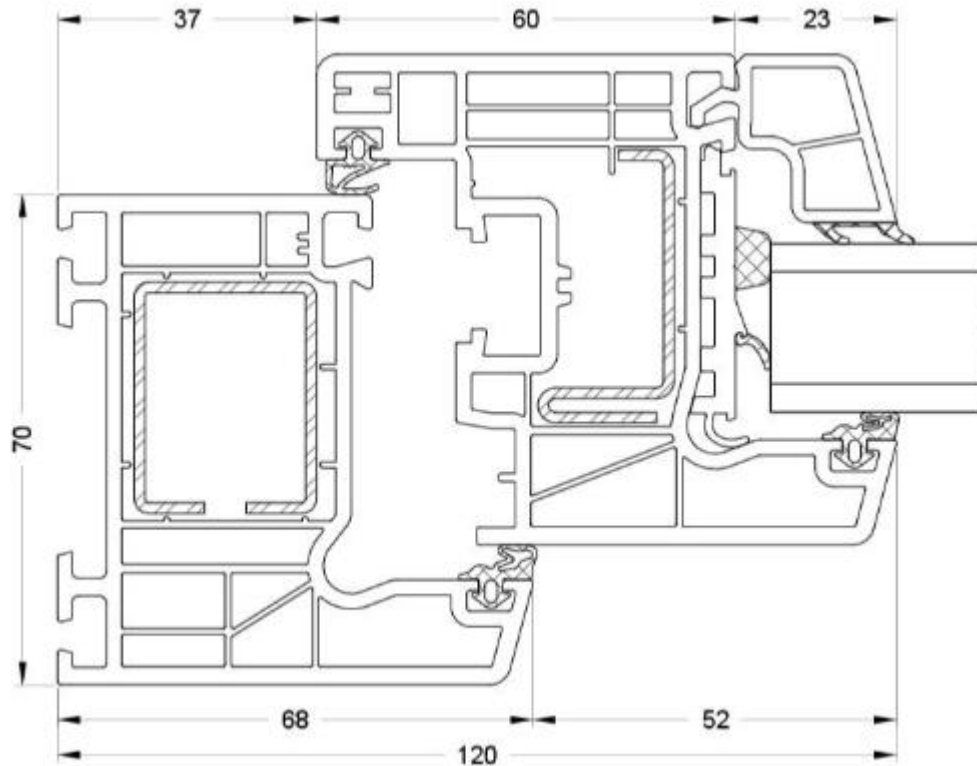


### Adhesive technology – “Adhesive vent”

- No need to hang or position the vent after installation
- Reinforcement (white) no longer required  
→ Weight saving and improvement of the Uf value
- Additional load transfer from the non-bonded panes by means of a special glazing block
- Rebate base geometry for optimum adhesive use
- Identical face widths and deduction dimensions to standard 83 mm vent
- Inner pane bonded for an optimally ventilated glazing rebate

# Schüco CT 70

## Additive adhesive technology



### Additive adhesive technology

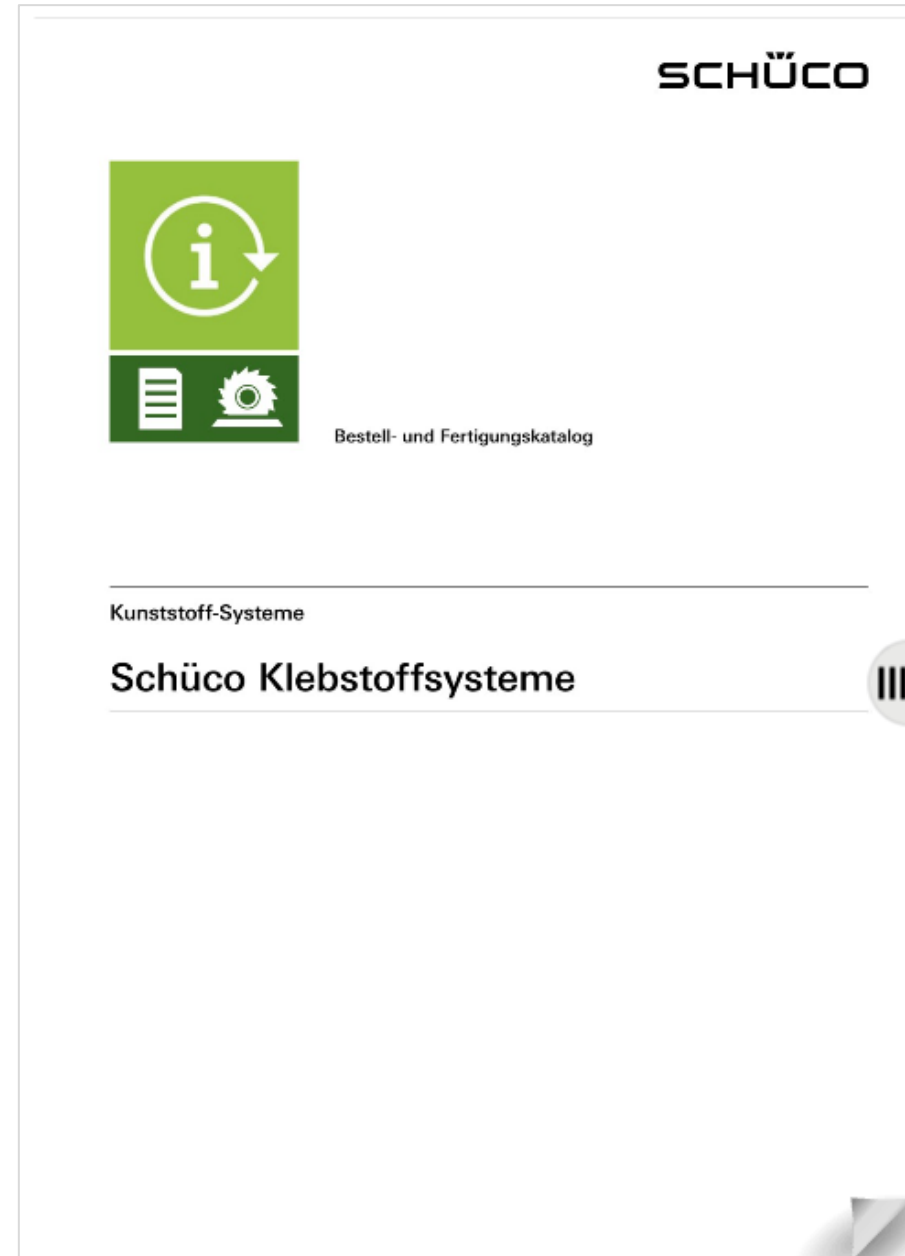
- Improvement in the stability of window and door units and associated increase in unit sizes
- No need to hang or position the vent after installation
- No special vent profiles required
- Procedure can be integrated into the standardised production process
- Units can be immediately transported after bonding and installation of glazing
- Glazing can be done on site

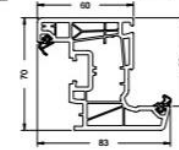
# Schüco CT 70

## Bonding in the system

### Adhesive vent / additive adhesive technology

- Improved stability of window and door units  
→ Increase in unit sizes
- Enables use of fewer face-width profiles  
→ Improved utilisation of daylight
- No need to hang or position the vent after installation
- No special vent profiles required
- Procedure can be integrated into the standardised production process
- Units can be immediately transported after bonding and installation of glazing





# Schüco CT 70

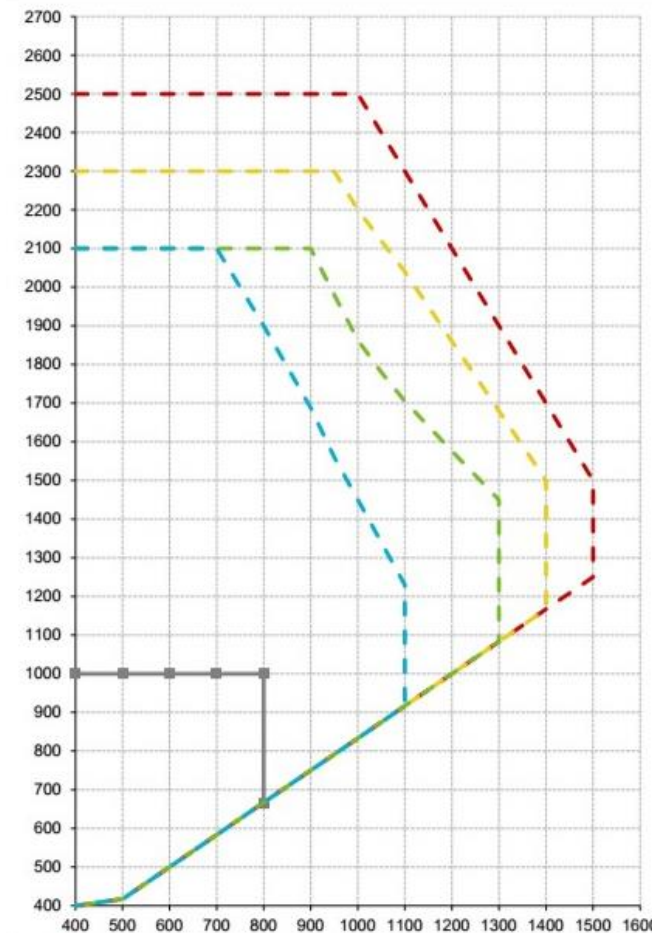
## Maximum sizes (turn/tilt units)

Same profile, same steel  
 Difference: Bonded vs unbonded

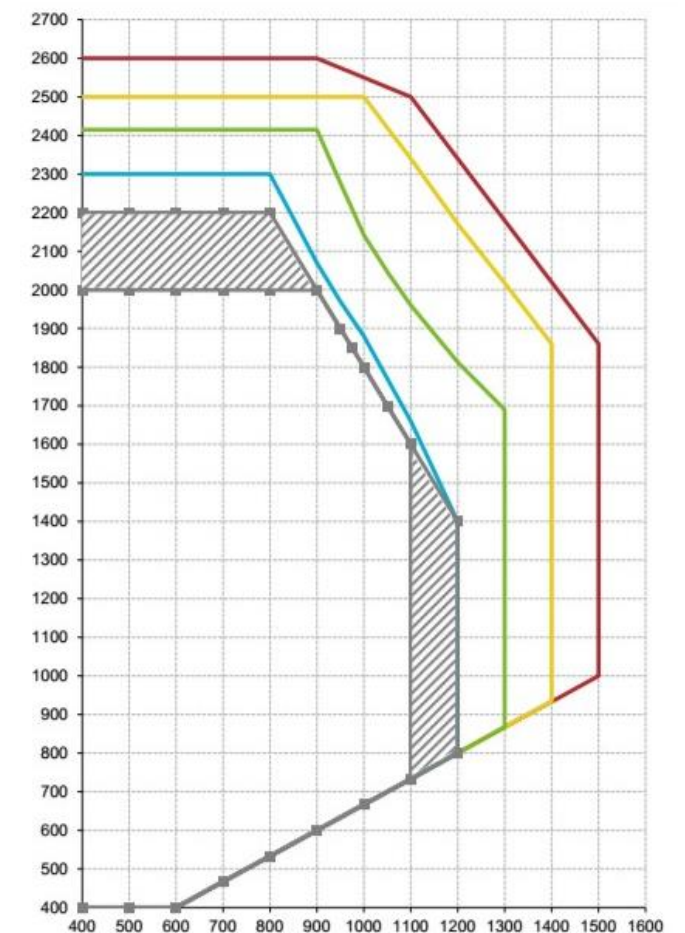
Benefits (general):

- On average:  
 Units can be built 10% taller with the same width  
 An increase in 15 kg glass weight is possible  
 Vents measuring 100 mm wider can be built
- Improved height to width ratio of 1:1.5 (meaning units that are much wider than they are tall can be built → useful for ribbon windows for example)

ungeklebt ■ Unbonded



geklebt ■ Bonded



# Surface finishing

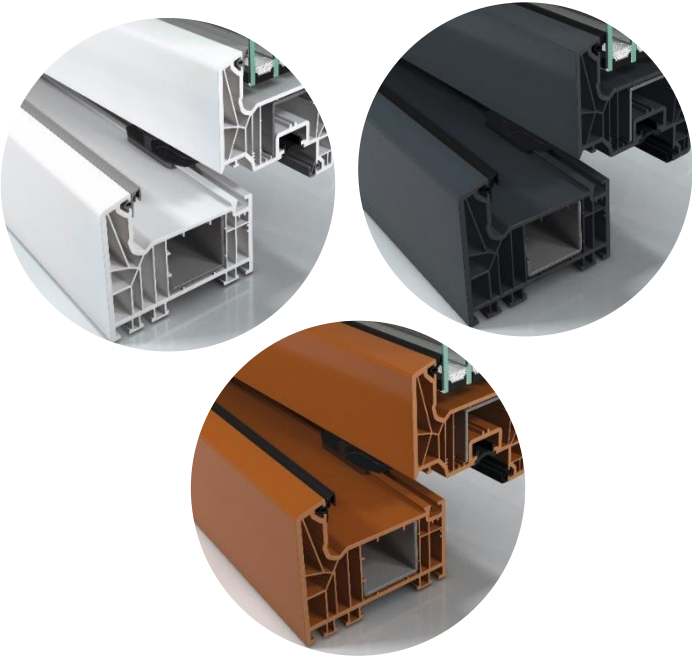
05



# Schüco CT 70

## Surface finishing

Colour-matched base component



Schüco Top Alu



or

Schüco Unlimited Finish



# Schüco CT 70

## Surface finishing

### Schüco UnlimitedFinish

- Range of more than 200 standard and special foils in metallic and single colours or woodgrain finishes
- Uniform colour concept for all Schüco PVC-U window, door and sliding systems
- Fast availability, even of foils that are not kept in stock
- Minimum delivery quantity: 1 x 6 m profile

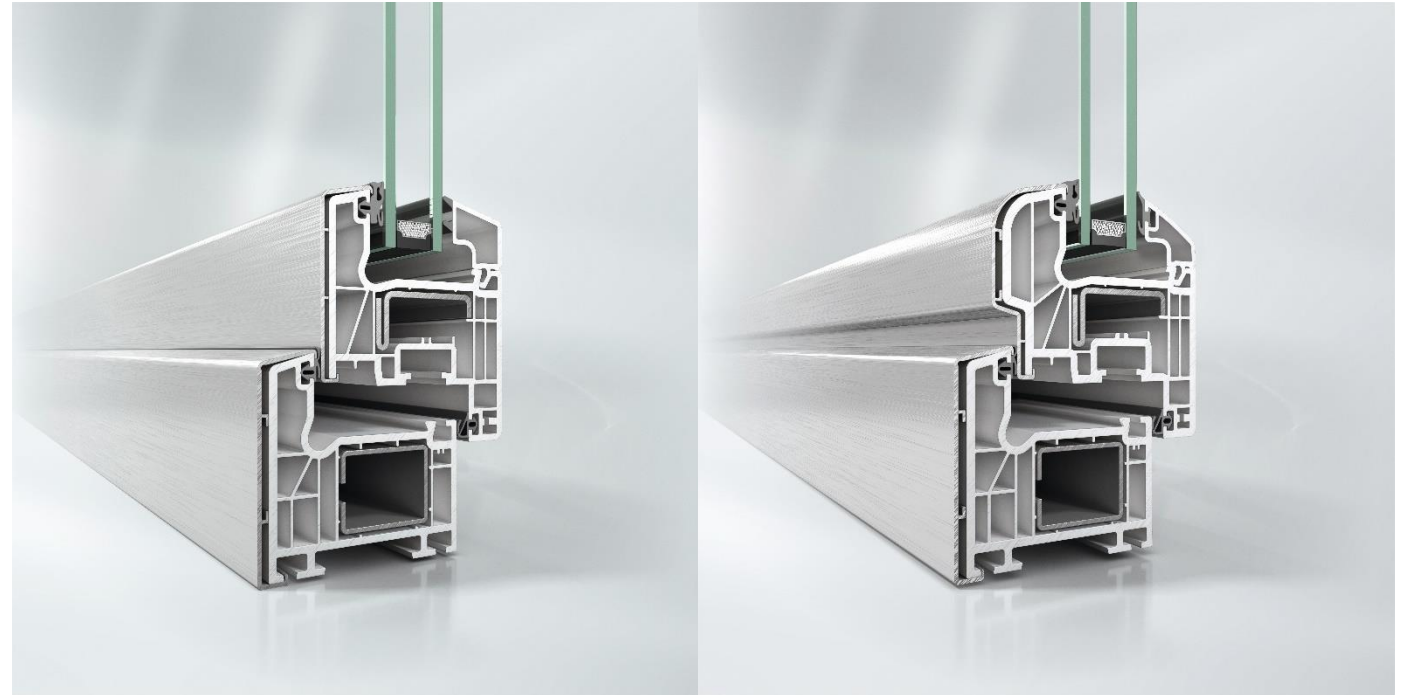


# Schüco CT 70

## Surface finishing

### Schüco TopAlu

- Efficient fabrication and simple clip-on installation
- Can be supplied with coating
- First-class range of design options for the aluminium surface
- The outer frame and vent frame can be different colours
- Allows the perfect integration of PVC-U units in aluminium façades





# Unit types / opening types & overview of range

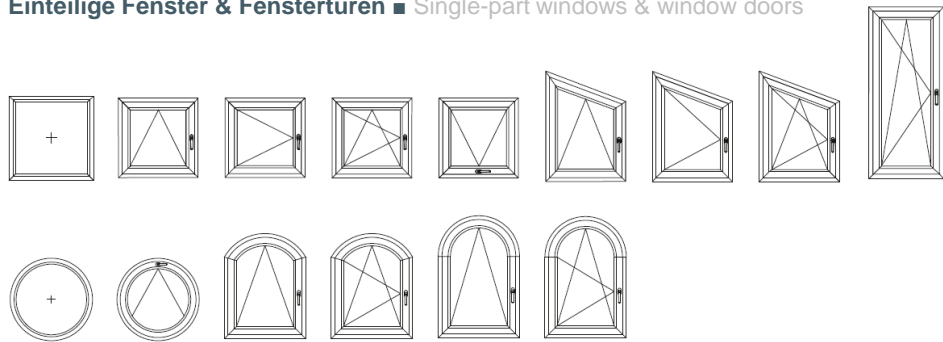
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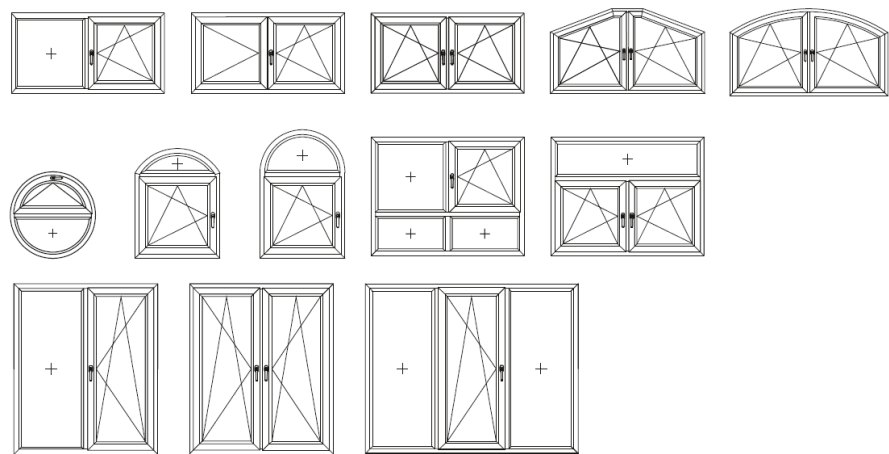
# Schüco CT 70

## Unit types / opening types

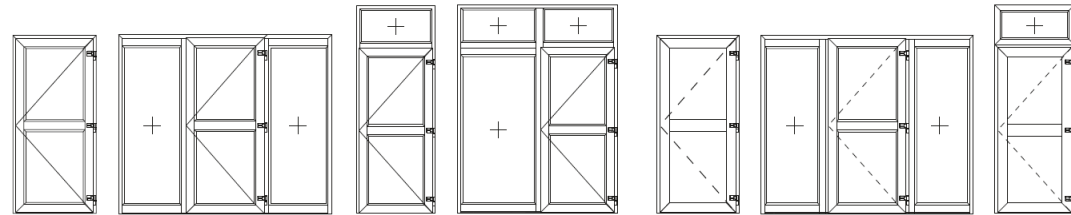
### Einteilige Fenster & Fenstertüren ■ Single-part windows & window doors



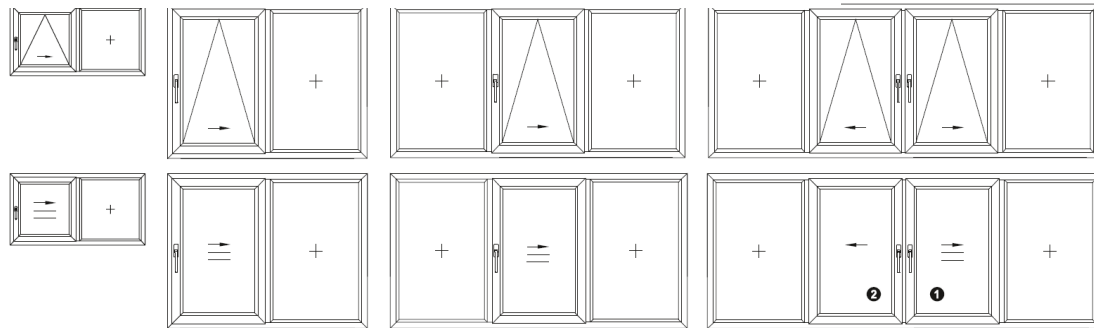
### Mehrteilige Fenster & Fenstertüren ■ Multi-part windows & window doors



### Nebeneingangstüren (NET) & Haustüren (HT) ■ Side entrance doors & entrance doors



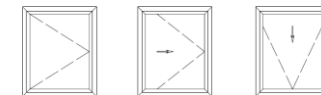
### PAS(K)-Fenster und -Fenstertüren ■ Tilt/slide windows and window doors



### Schwingfenster ■ Horizontal pivot window



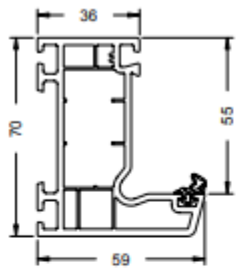
### Casementfenster ■ Casement window



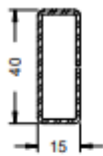
# Schüco CT 70

## Outer frames

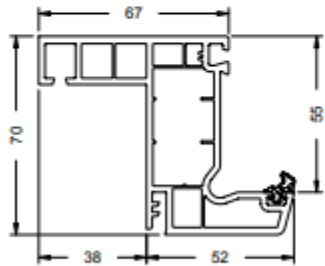
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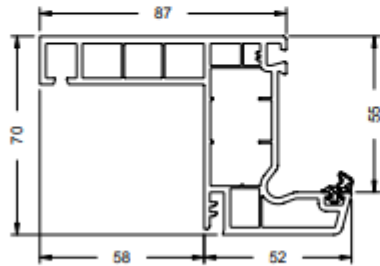
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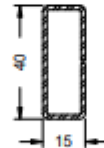
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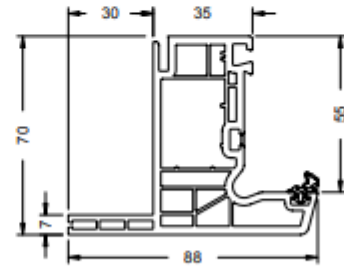
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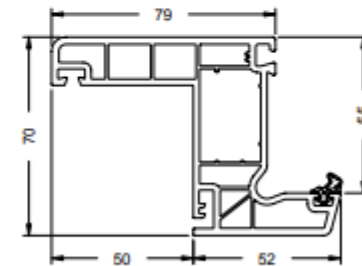
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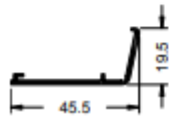
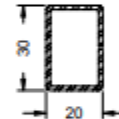
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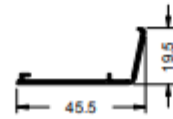
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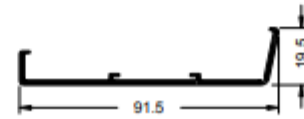
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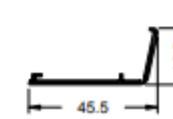
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13299800

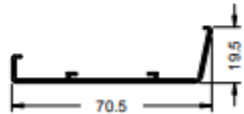
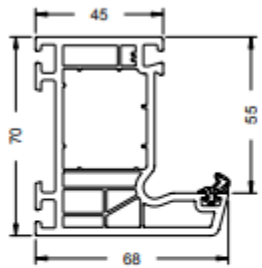


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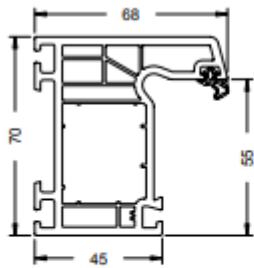
## Outer frames

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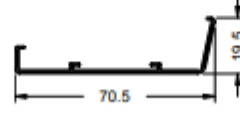
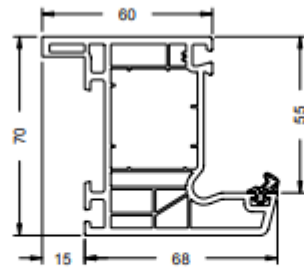


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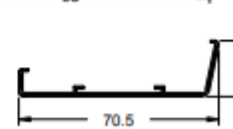
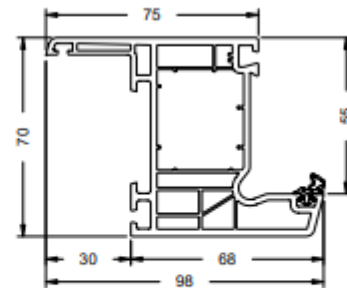


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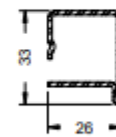


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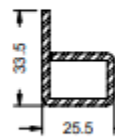
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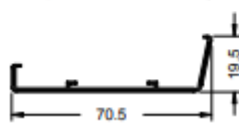
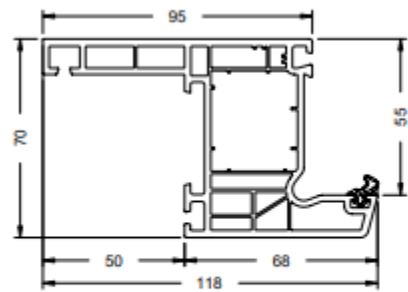
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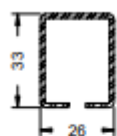


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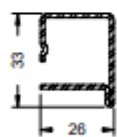


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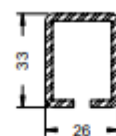
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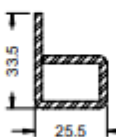
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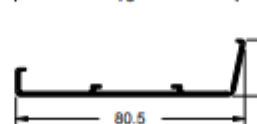
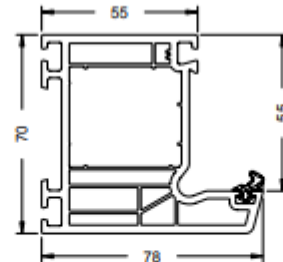
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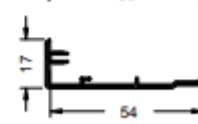
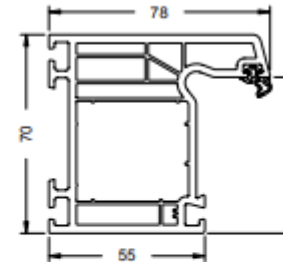


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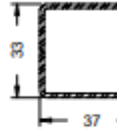
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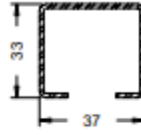
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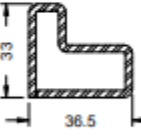
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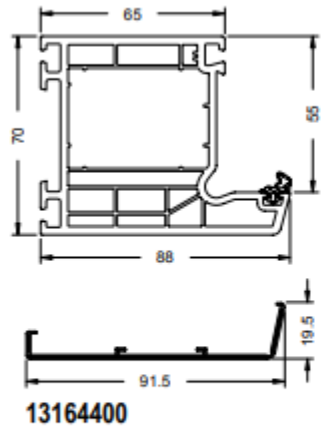
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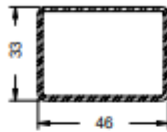
# Schüco CT 70

## Outer frames

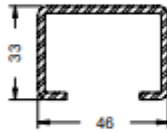
18819... **L**



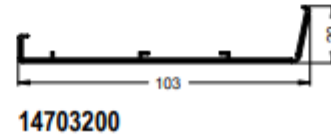
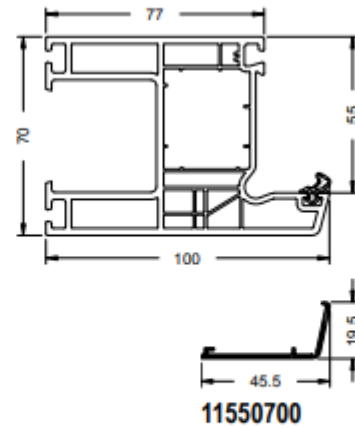
20126100



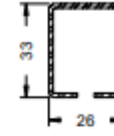
20269000



19705... **E**



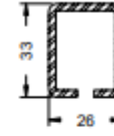
20244600



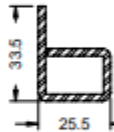
20276200



20244700



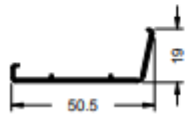
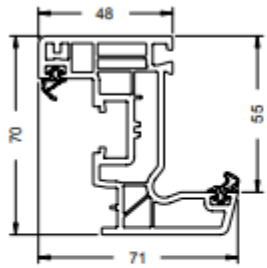
20292300



# Schüco CT 70

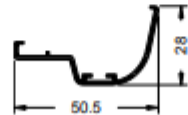
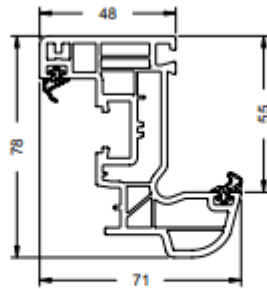
## Vent frames

19053... **E** **L**



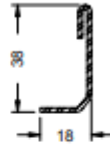
11551600

19196... **E** **L**

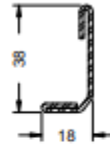


11557400

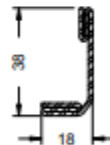
20280200



20280100



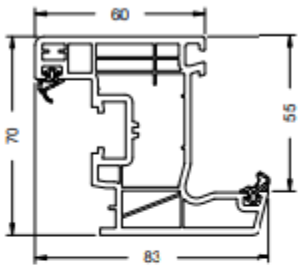
20280000



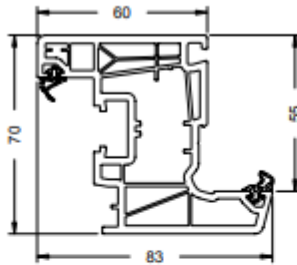
# Schüco CT 70

## Vent frames

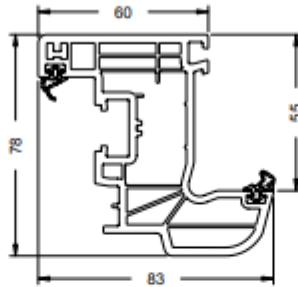
18866... **E** **L**



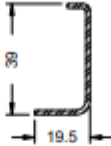
19738...



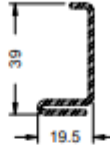
18867... **E** **L**



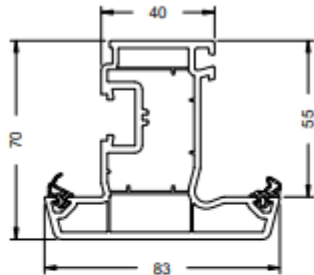
20261000



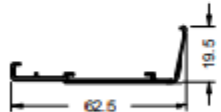
20260900



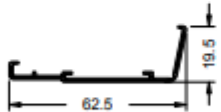
19362... 5,8 m



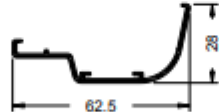
20286300



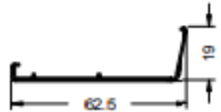
13164500



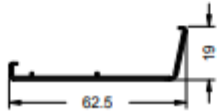
13164500



13164900

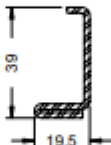


13292200

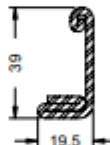


13292200

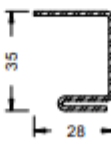
20261100



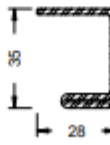
20261200



20261800



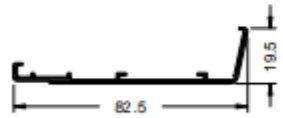
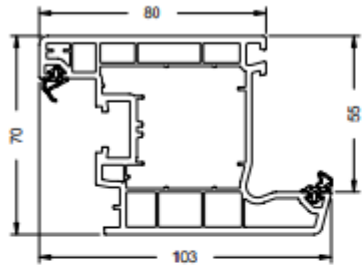
20275200



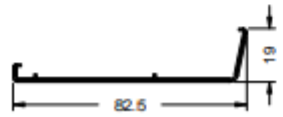
# Schüco CT 70

## Vent frames

19943... **E** **L**

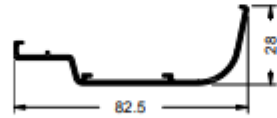
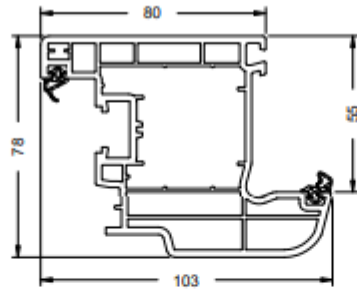


13164600



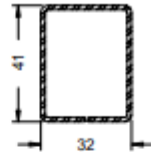
13292300

19805... **L**

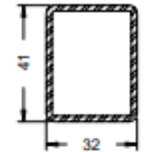


13165000

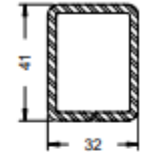
20126000



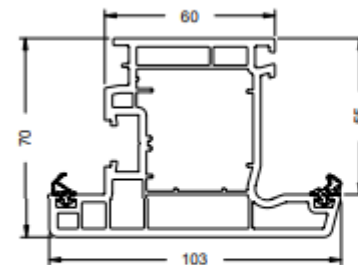
20120500



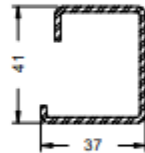
20120600



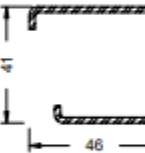
18509...



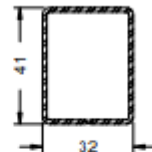
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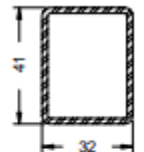
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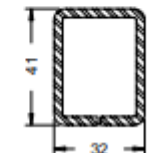
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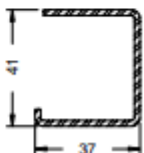
20120500



20120600



20258800

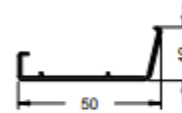
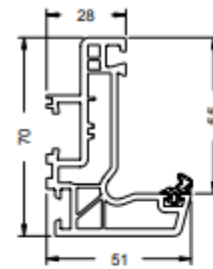




# Schüco CT 70

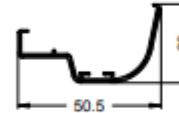
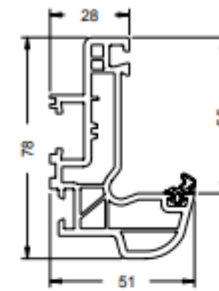
## Double vents

19153... E



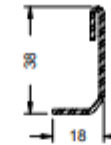
11556000

19220... E

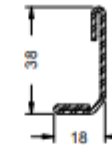


14704000

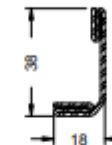
20280200



20280100



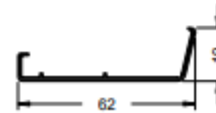
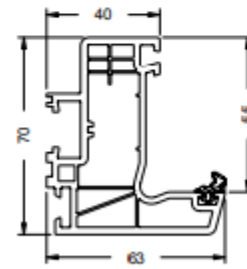
20280000



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SW	25269500	25269900
KAR	25269600	25270000
DGR	25269700	25270100

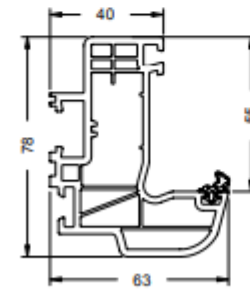
- <sup>1</sup> Gehrungskappe aufliegend
- <sup>1</sup> Mitre cap, surface-mounted
- <sup>2</sup> Gehrungskappe eingelassen
- <sup>2</sup> Mitre cap, flush-fitted

18898... E

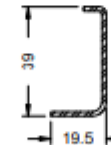


11556200

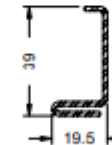
19219... E



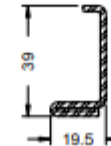
20261000



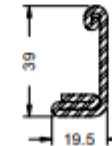
20260900



20261100



20261200



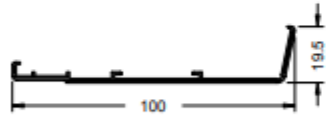
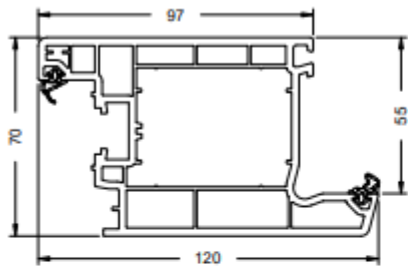
WS	25269400	25269800
SW	25269500	25269900
KAR	25269600	25270000
DGR	25269700	25270100

- <sup>1</sup> Gehrungskappe aufliegend
- <sup>1</sup> Mitre cap, surface-mounted
- <sup>2</sup> Gehrungskappe eingelassen
- <sup>2</sup> Mitre cap, flush-fitted

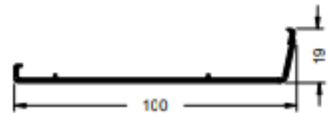
# Schüco CT 70

## Vent frames

19108... 6,5 m **L**

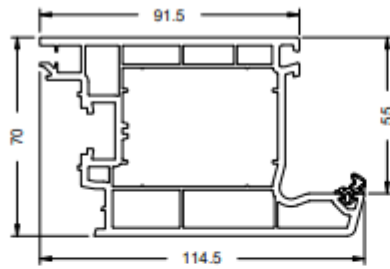


11554400

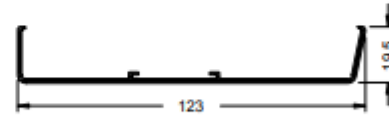
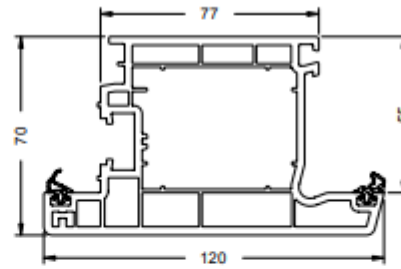


11554500

19271...

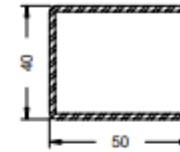


19109... 6,5 m **L**

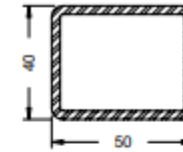


11554600

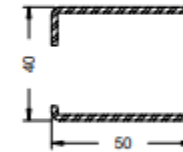
20103400



20278400



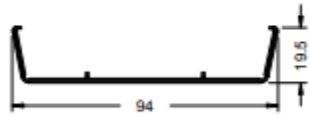
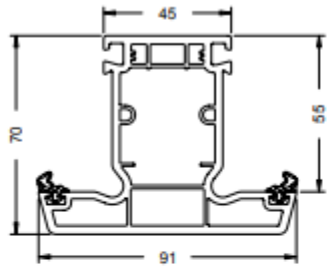
20247000



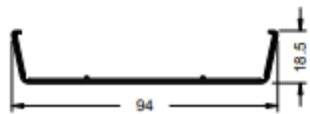
# Schüco CT 70

## T-profiles and vent glazing bars

18869... **E** **L**

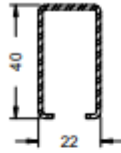


13295700

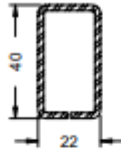


13165300

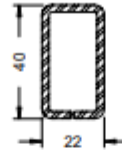
20267300



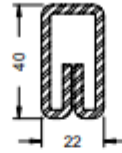
20262300









20262400

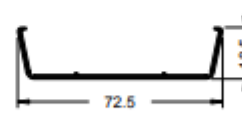
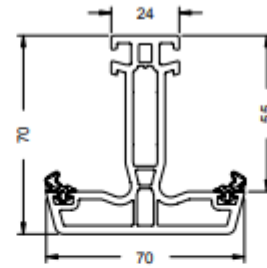


20262500



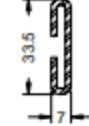
	SI	SW	
	22627500	22623700	3 mm
	22627700	22624900	3 mm
	28664800		5 mm
	22620800		






18520... **L**



13165500

20259300

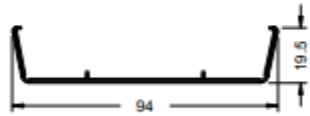
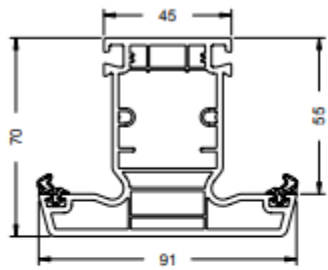


	SI	
	22628300	3 mm
	28665600	5 mm
	22621100	

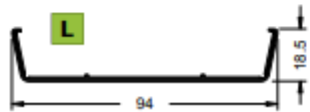
# Schüco CT 70

## T-profiles and vent glazing bars

19012... **E**

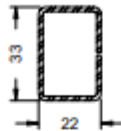


13295700

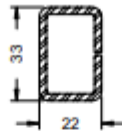


13165300

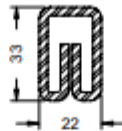
20120700



20120800

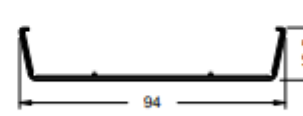
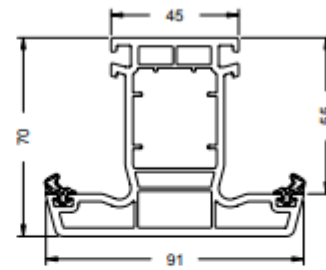


20129100



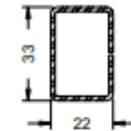
	SI	SW	
	22627500	22623700	3 mm
	22627700	22624900	3 mm
	28664800		5 mm
	22620800		

18594... **L**

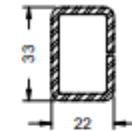


13165300

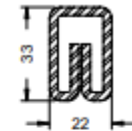
20120700



20120800



20129100



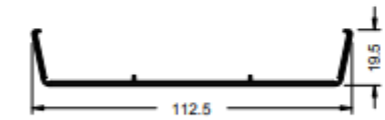
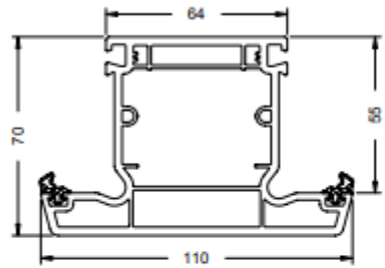
	SI	
	28665400	5 mm
	22620800	

# Schüco CT 70

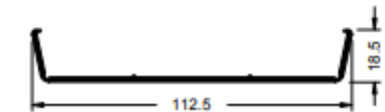
## T-profiles and vent glazing bars

18848... **L**

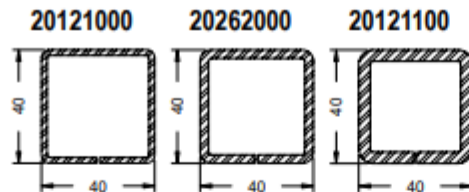
19048160 6,5 m








13165400

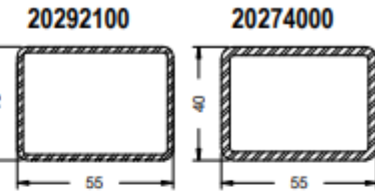
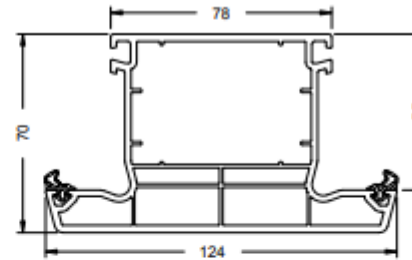





13292100



	SI	SW	
	22627800	22624100	3 mm
	22628000	22625100	3 mm
	28664900		5 mm
	22621000		

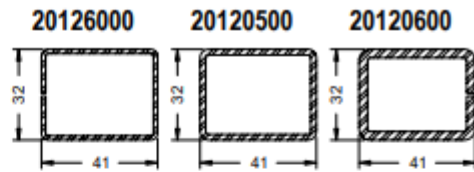
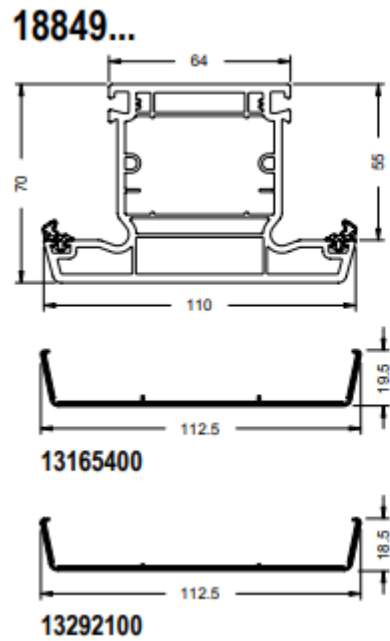
17969... **L**








	SI	
	29548700	3 mm
	29548600	5 mm

# Schüco CT 70

## T-profiles and vent glazing bars

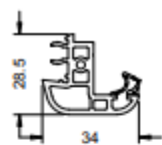


	SI	SW	
			
	22627800	22624100	3 mm
	22628000	22625100	3 mm
	28664900		5 mm
	22620900		

# Schüco CT 70

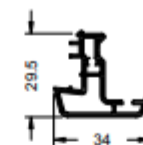
## Mini double vent / impact strips

19606...



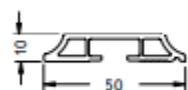
		TS	
		re	li
WS	23757100	28689100	25089100
SW	23757200	28689200	25089200
CW	25034600		
KAR	25034500	28689300	25089300
DGR	29521600		

11555900



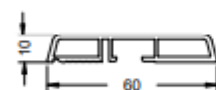
		TS	
		re	li
SW	28639500	28744400	25078600

18414...



WS	22794400	
SW	28692000	
KAR	25033200	

19998...



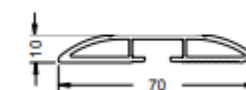
WS	20336600	
SW	20336700	
KAR	20336800	
DGR	20336900	
BE	20337100	
GR	20337200	

19104...



WS	28620000	
SW	28692100	
KAR	25033500	

18382...

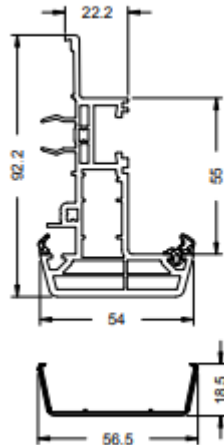


WS	23762600	
SW	28692200	
KAR	25033300	

# Schüco CT 70

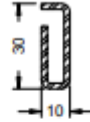
## Double-vent profiles

19700... L

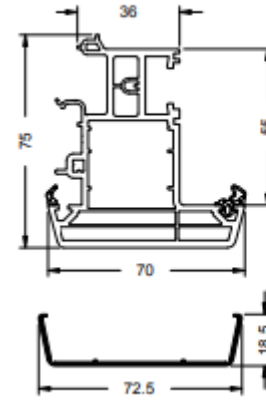


14736100

20258900

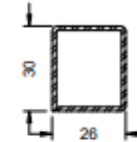


19701... L



13165500

20271700



						re	li
WS	25085700	25086000	25086500	25087400	25275800	25275900	
SW	25085800	25086100	25086600	25087500	25276000	25276100	
KAR		25086400	25086900		25276200	25276300	
DGR		29518200	29518300		29518400	29518500	

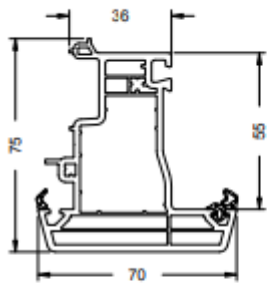
						re	li
WS	25083300	25083900	25084500	25085500	25274800	25274900	
SW	25083400	25084000	25084600	25085600	25275000	25275100	
CW		25084400	25085000		25275600	25275700	
KAR		25084300	25084900		25275200	25275300	
DGR		29517700	29517800		29517900	29518000	



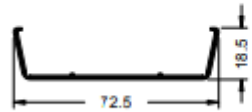
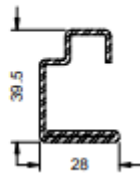
# Schüco CT 70

## Double-vent profiles / thresholds

19702... **L**

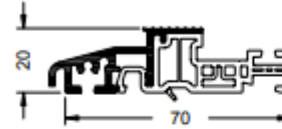


20282600

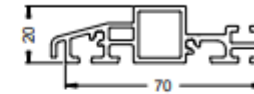


13165500

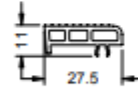
25081600  
25091600



24416600



17472060  
17472150



17474060  
17474150



					re	li
WS	25273800	25084500	25085500	25274800	25274900	
SW	25273900	25084600	25085600	25275000	25275100	
CW	25274300	25085000		25275600	25275700	
KAR	25274200	25084900		25275200	25275300	
DGR	29518100	29517800		29517900	29518000	

WS		23736400	23736600	23775700	23750900	23736800	
SW		23736500	23736700	23775800	23751000	23736900	28638800
SG							28649200
GR		20331900	20332100	20332200	20332300	20332400	25088800

## Schüco CT 70

### Overview of range – glazing beads



- Glazing beads with “angular” design and co-extruded gasket
- Glazing bead with “Design” contour and extruded, replaceable gasket
- 2 mm increments in the base material in order to cover the different glass thicknesses with gaskets inserted in the factory
- Optimised chamfer for shadow groove
- Identical glazing beads for vent frame and outer frame fixed glazing

# Schüco CT 70

