

nissal
NEWMET



ALT 68 SYSTEM

ALT 68 // 2016

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tehnički opis technical description

Sistem ALT 68 predstavlja konstrukciju aluminijumskih profila sa termo prekidom koji čine poliamidne trake širine 20 mm. Svoju široku primenu je obezbedio zahvaljujući svojim tehničkim i termičkim karakteristikama.

Sa koeficijentom $k=2,44 \text{ W/m}^2\text{K}$, ovaj sistem spada u kategoriju 2.1 (po DIN 4108), što je doprinelo njegovoj primeni na svim objektima gde su pored ostalih mehaničkih i drugih karakteristika dominantan uslov bila i termička svojstva aluminijumskog sistema.

MOGUĆNOST PRIMENE:

Ovaj sistem aluminijumskih profila sa termičkim prekidom, okovom u sistemu «EVROŽLJEB-a» i EPDM dihtung zaptivkama najnovije generacije, omogućava izradu:

- bilo kog tipa prozora;
- balkonskih;
- ulaznih vrata sa jednim ili više krila (otvaranje spolja i unutra);
- portala i drugih fasadnih pregrada.

Aluminijumski profili su sa mekim, zaobljenim ivicama.

TEHNIČKI OPIS SISTEMA:

- Presovani aluminijumski profili od legure AlMgSi0,5 maksimalne prekidne čvrstoće F22 (stanje 91).
- Debljina profila i tolerancije: prema standardu JUS. C.C3.220, odnosno DIN 1748/4
- Poliamidne trake: debljine 20 mm proizvedene od visokokvalitetnog atestiranog poliamida PA66 GF 25.
- Debljina ispune/stakla: Različite, od 16 do 42 mm u zavisnosti od vrste upotrebljenih kit lajsni.

System ALT 68 is a constructive system with thermal bridge accomplished by implementation of 20 mm wide polyamide bars.

System found wide utilization, due to its technical and thermal characteristic.

With a coefficient $K= 2.44 \text{ W/m}^2\text{K}$, this system ranks into 2.1 category (according to DIN 4108), which contributed to it's appliance to the projects where, besides mechanical and other characteristics, dominant requirement is thermal characteristics of aluminum system.

IMPLEMENTATION POSSIBILITIES:

This system of aluminum profiles, with thermal bridge, with <<Euro-groove>> fittings and E.P.D.M. gaskets, is ready to manage any of the following type of construction:

- any type of window;
- balcony doors;
- entrance doors (with one or more sashes);
- portals, and other facade partitions.

Aluminum profiles are with soft, orbed edges.

TECHNICAL DESCRIPTION OF THE SYSTEM:

- Pressed aluminum profiles from the AlMgSi0.5 alloy, with_max. discontinuous load phase F22 (state 91).
- Thickness of the profile and tolerance: according to JUS. C.C3.220, or DIN 1748/4
- Polyamide bars 20 mm wide, made of a high quality attested polyamide PA66 GF 25
- Thickness of the filling/glass: vary, from 16 – 42 mm, in dependence of glazing bad used.

GLAVNE KARAKTERISTIKE:

Aluminijumski profili ovog sistema poseduju termički prekid sa tri komore koje se formiraju bilo odgovarajućim EPDM zaptivkama bilo poliamidnim trakama, koji obezbeđuju koeficijent $k=2,44 \text{ W/m}^2\text{K}$.

Zvučna izolacija sklopa aluminijumskih profila sa EPDM zaptivkama je 34 dB, dok se zvučna izolacija kompletne pozicije definiše u zavisnosti od izbora odgovarajućeg stakla, odnosno ispune.

Spajanje ramova na uglovima moguće je na dva načina i to: pomoću komada ugaone uloške od presovanog al. profila fiksirane utiskivanjem i ekspandirajućim lepkom, kao i pomoću dvodelne ugaone uloške koja spaja profile razupiranjem.

POVRŠINSKA OBRADA:

Zaštita i završna obrada površine aluminijumskih profila vrši se bilo postupkom anodne oksidacije – eloksaže, bilo postupkom elektrostatičkog bojenja – lakiranjem.

NISSAL NEWMET vrši završnu obradu svojih profila uz poštovanje evropskih standarda *QULANOD* za eloksažu i *QALICOAT* za plastifikaciju).

Eloksaža u *NISSAL NEWMETU* vrši se sa potpuno obnovljenom i modernizovanom opremom kapaciteta 24.000A.

Eloksaža se vrši prema *EUROCOLOR* ton karti, počevši od prirodne boje aluminijuma, preko svetle bronzе, srednje bronzе i tamne bronzе do crne i zlatne.

Anodni sloj je debljine 20 mikrona. Boja eloksaže može biti različita počev od prirodne boje aluminijuma, preko svetle bronzе, do žute i crne.

Sloj poliesterskog praha ima debljinu od 60 do 80 mikrona na glavnim, vidljivim delovima profila. Sve boje *RAL* ton karte su dostupne.

MAIN CHARACTERISTICS OF THE SYSTEM:

Aluminum profiles of this system are with thermal break with 3 chambers, formed either by implementation of proper E.P.D.M. gaskets, or with polyamide bars, with a resulting coefficient $K= 2.44 \text{ W/m}^2\text{K}$.

Soundproofing of the system of aluminum profiles along with E.P.D.M. gaskets is 34 dB, while the definitive soundproofing is defined with a choice of appropriate glass or replenishment.

Coupling of frames on corners is possible either with a peace of corner joint from pressed Al. profile embedded and glued or with a split corner joint which connects profiles by means of struts.

SURFACE PROTECTION:

Surface protection is carried out whether with process of anodizing or with process of powder coating.

Both processes are carried out in compliance with strict European standards of "QULANOD" for anodizing and "QUALICOAT" for powder coating.

Anodizing at NISSAL NEWMET is carried out, with a completely reconstructed and modernized equipment of 24.000A capacity.

Anodizing is carried out according to EUROCOLOR hue card starting with natural color of aluminum, through light bronze, medium bronze and dark bronze, to black and gold.

The thickness of anodic layer is 20 microns, which is necessary for outdoor application of aluminum profiles in civil engineering.

Polyester powder coating layer is 60 – 80 microns thick on the main, visible parts of the profiles.

All colors from RAL hue card are available.

KVALITET:

Kvalitet svih NISSAL NEWMET ovih proizvoda je garantovan striktno propisanim proizvodnim procedurama – od presovanja aluminijumskih profila i poštovanja odgovarajućih dimenzija i tolerancija u skladu sa JUS C.C3.220, odnosno DIN 1748/4, preko procesa eloksiranja ili plastificiranja aluminijumskih profila u skladu sa evropskim QUALICOAT i QUALANOD standardima, pa do nabavke i ugradnje svih pratećih materijala (spojnica, EPDM zaptivki itd.) i okova od renomiranih evropskih proizvođača.

Kompletan proces, odnosno svaki segment, proizvodnje se pažljivo i detaljno prati i kontroliše, a kvalitet kompletnog procesa potvrđen je i znakom kvaliteta po standardu ISO 9001.

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Proizvodjač zadržava pravo vršenja
konstruktivnih izmena bez prethodne najave.

QUALITY:

All NISSAL NEWMET's products have a quality which is guaranteed through strictly determined procedures – from aluminum profiles extrusion in accordance with JUS C.C3.220 and DIN 1748/4 standard, through the process of anodization and electrostatic powder coating in accordance with European "QULANOD" and "QUALICOAT" standards, to supply of all accessories (corner joints, EPDM gaskets, fittings, etc.) from prominent European suppliers.

Complete process and every segment of production is carefully and in detail supervised and controlled, and the quality of complete process is validated with the sign of quality standard ISO 9001.

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NISSAL NEWMETa.d. holds a right of making
structural changes without prior nouncement.

segment A

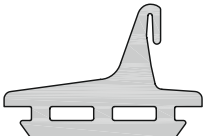
prateći materijal
accessories

ALT
68

A

1



oznaka code	izgled design	opis description	veza sa connected to	jed. mere / kotur unit / roll
GP 1		prednji naslon za staklo / front glass support d=3-4 mm <i>materijal/material: EPDM</i>	Za sva krila For all sashes	$\frac{m'}{200}$
GZ 1		zadnji naslon za staklo / rear glass support d=3 mm <i>materijal/material: EPDM</i>	Za sve kit lajsne For all glazing beads	$\frac{m'}{300}$
GZ 2		zadnji naslon za staklo / rear glass support d=4 mm <i>materijal/material: EPDM</i>	Za sve kit lajsne For all glazing beads	$\frac{m'}{200}$
GZ 3		zadnji naslon za staklo / rear glass support d=5 mm <i>materijal/material: EPDM</i>	Za sve kit lajsne For all glazing beads	$\frac{m'}{150}$
GC 68		centralni dihtung / central gasket <i>materijal/material: EPDM</i>	68 11 68 12 68 13 68 14 68 32 68 33 68 34 68 41	$\frac{m'}{50}$
GK 1		unutrašnji dihtung krila / rear sash gasket <i>materijal/material: EPDM</i>	68 21 68 23 68 24	$\frac{m'}{180}$
GPR		dihtung praga / threshold gasket <i>materijal/material: EPDM</i>	NG1 / NG2	$\frac{m'}{100}$
Č 10		četkica / brush 10 mm	NG1 / NG2	m'

ALT
68

A

2



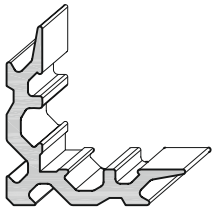
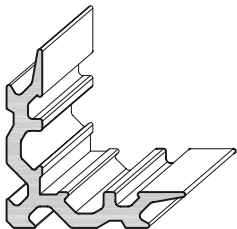
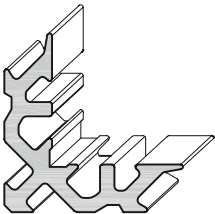
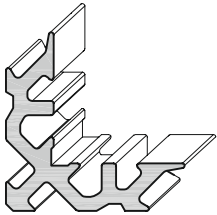
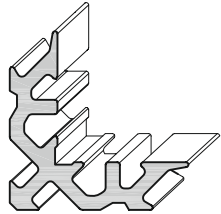
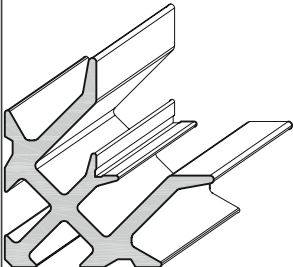
oznaka code	izgled design	opis description	veza sa connected to	jed. mere / pakovanje unit / pack
P 68 D		zatvarač srednje dopune / central rabbet cap <i>materijal/material:</i> poliamid / polyamide	68 41	$\frac{\text{kom/pcs}}{x}$
PN		nosač kajle / bottom glass support <i>materijal/material:</i> poliamid / polyamide	Za sva krila i štokove For all sashes & frames	$\frac{\text{kom/pcs}}{x}$
PO		Okapnik / Draining hole plug <i>materijal/material:</i> poliamid / polyamide	Za sve štokove For all frames	$\frac{\text{kom/pcs}}{x}$
P 68 V1		Zatvarač vertikalne krila vrata (otv.unutra) / Door verticale profile plug (for inside opening direction) <i>materijal/material:</i> poliamid / polyamide	68 23	$\frac{\text{kom/pcs}}{x}$
P 68 V2		Zatvarač vertikalne krila vrata (otv.spolja) / Door verticale profile plug (for outside opening direction) <i>materijal/material:</i> poliamid / polyamide	68 24	$\frac{\text{kom/pcs}}{x}$
P 68 V3		Zatvarač srednje dopune / Central rabbet plug <i>materijal/material:</i> poliamid / polyamide	68 41	$\frac{\text{kom/pcs}}{x}$

ALT
68

A

3



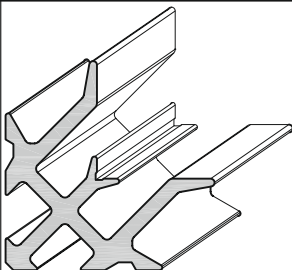
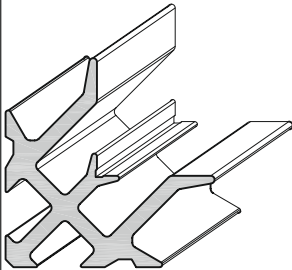
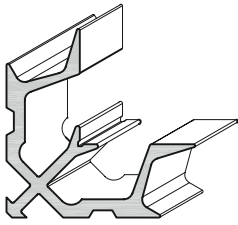
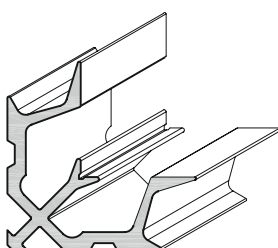
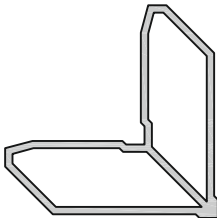
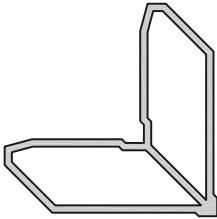
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S 15 - 8		ugaona spojnica (M - 5224) / extruded corner joint (M - 5224) L=8.4 mm <i>materijal/material:</i> aluminijum/aluminum	68 21	$\frac{\text{kom/pcs}}{20}$
S 15 - 27		ugaona spojnica (M - 5224) / extruded corner joint (M - 5224) L=27 mm <i>materijal/material:</i> aluminijum/aluminum	68 21	$\frac{\text{kom/pcs}}{20}$
S 20 - 8		ugaona spojnica (M - 5225) / extruded corner joint (M - 5225) L= 7.4 mm <i>materijal/material:</i> aluminijum/aluminum	68 23	$\frac{\text{kom/pcs}}{20}$
S 20 - 13		ugaona spojnica (M - 5225) / extruded corner joint (M - 5225) L=13.4 mm <i>materijal/material:</i> aluminijum/aluminum	68 11	$\frac{\text{kom/pcs}}{20}$
S 20 - 27		ugaona spojnica (M - 5225) / extruded corner joint (M - 5225) L=27 mm <i>materijal/material:</i> aluminijum/aluminum	68 11 68 13 68 23 68 24	$\frac{\text{kom/pcs}}{20}$
S 35 - 9		uloška (M 5226) / extruded corner joint (M 5226) L=9 mm <i>materijal/material:</i> aluminijum/aluminum	68 24	$\frac{\text{kom/pcs}}{20}$

ALT
68

A

4



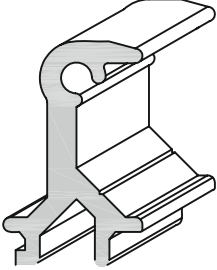
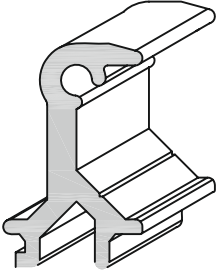
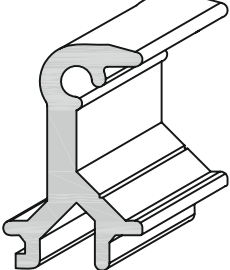
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S 35 - 13		uloška (M 5226) / extruded corner joint (M 5226) L=13.4 mm <i>materijal/material:</i> aluminijum/aluminum	68 12	$\frac{\text{kom/pcs}}{20}$
S 35 - 27		uloška (M 5226) / extruded corner joint (M 5226) L=27 mm <i>materijal/material:</i> aluminijum/aluminum	68 12	$\frac{\text{kom/pcs}}{20}$
S 40 - 8		ugaona spojnica (M 4954) / extruded corner joint (M 4954) L= 8 mm <i>materijal/material:</i> aluminijum/aluminum	68 23	$\frac{\text{kom/pcs}}{20}$
S 40 - 27		ugaona spojnica (M 4954) / extruded corner joint (M 4954) L= 27 mm <i>materijal/material:</i> aluminijum/aluminum	68 23 68 24	$\frac{\text{kom/pcs}}{20}$
D 20.1		dopuna montažne spojnice / add-on to the assembly joint L=27 mm <i>materijal/material:</i> aluminijum - aluminum	68 12 68 23 68 24	$\frac{\text{kom/pcs}}{20}$
D 20.2		dopuna montažne spojnice / add-on to the assembly joint L=8 mm <i>materijal/material:</i> aluminijum - aluminum	68 23	$\frac{\text{kom/pcs}}{20}$

ALT
68

A

5



oznaka code	izgled design	opis description	veza sa connected to	jed. mere / pakovanje unit / pack
SS 20		sučeona spojnica (M 5227) / extruded joint (M 5227) L=20 mm <i>materijal/material:</i> <i>aluminijum/aluminum</i>	68 32	$\frac{\text{kom/pcs}}{40}$
SS 36		sučeona spojnica (M 5227) / extruded joint (M 5227) L=36 mm <i>materijal/material:</i> <i>aluminijum/aluminum</i>	68 33	$\frac{\text{kom/pcs}}{20}$
SS 63		sučeona spojnica (M 5227) / extruded joint (M 5227) L=63 mm <i>materijal/material:</i> <i>aluminijum/aluminum</i>	68 34	$\frac{\text{kom/pcs}}{20}$

ALT
68

A

6



oznaka code	izgled design	opis description	veza sa connected to	jed. mere / pakovanje unit / pack
MS 15.1		montažna spojnica / assembly joint <i>materijal/material:</i> aluminijum - aluminum	68 12 68 21	$\frac{\text{kom/pcs}}{20}$
LMS 15.1		livena spojnica / casted assembly joint <i>materijal/material:</i> aluminijum - aluminum	68 12 68 21	$\frac{\text{kom/pcs}}{20}$
MS 20.1		montažna spojnica / assembly joint <i>materijal/material:</i> aluminijum - aluminum	68 11 68 13 68 14 68 23 68 24	$\frac{\text{kom/pcs}}{20}$
LMS 20.1		livena spojnica / founded assembly joint <i>materijal/material:</i> aluminijum - aluminum	68 11 68 13 68 14 68 23 68 24	$\frac{\text{kom/pcs}}{20}$
U 1.2		uglič - mali / corner alignment - small d = 2.0 mm <i>materijal/material:</i> čelik/ steel	68 11 68 13 68 14 68 21	$\frac{\text{kom/pcs}}{80}$
U 2		uglič - veliki / corner alignment - large d = 1.5 mm <i>materijal/material:</i> čelik/ steel	Za sva krila For all sashes	$\frac{\text{kom/pcs}}{80}$

segment B

pregled profila
structural elements
overview

ALT
68

B

1



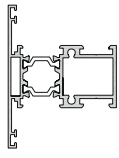
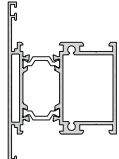
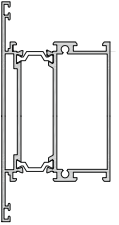
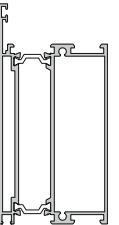
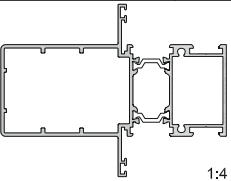
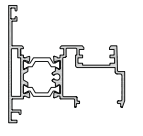
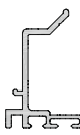
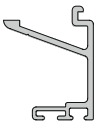
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68 11		štok / frame	1.413	$I_x = 10.5584$ $I_y = 25.0462$	$\frac{\text{kom/pcs}}{2}$	C1
68 12		štok / frame	1.672	$I_x = 23.1491$ $I_y = 37.8442$	$\frac{\text{kom/pcs}}{2}$	C1
68 13		štok / frame	1.667	$I_x = 12.5740$ $I_y = 42.5899$	$\frac{\text{kom/pcs}}{2}$	C2
68 14		štok / frame	1.354	$I_x = 8.0785$ $I_y = 21.5086$	$\frac{\text{kom/pcs}}{2}$	C2
68 21		krilo / sash	1.406	$I_x = 6.5697$ $I_y = 30.6834$	$\frac{\text{kom/pcs}}{2}$	C3
68 23		krilo / sash	2.078	$I_x = 27.4928$ $I_y = 55.4659$	$\frac{\text{kom/pcs}}{2}$	C4
68 24		krilo / sash	1.935	$I_x = 34.6072$ $I_y = 41.3893$	$\frac{\text{kom/pcs}}{2}$	C4

ALT
68

B

2



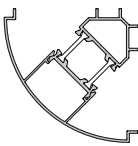
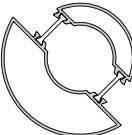
oznaka code	izgled design	opis description	G Kg/m	$\frac{I_x}{I_y}$ cm ⁴	Pakovanje sadrži šipke od 6 m Package contains 6 m bars	strana page
68 32	 1:4	"T" profil / "T" profile	1.644	$I_x = 14.6692$ $I_y = 2.4838$	$\frac{\text{kom/pcs}}{2}$	C5
68 33	 1:4	"T" profil / "T" profile	1.973	$I_x = 31.1144$ $I_y = 31.9747$	$\frac{\text{kom/pcs}}{2}$	C5
68 34	 1:4	"T" profil / "T" profile	2.380	$I_x = 37.0863$ $I_y = 83.3335$	$\frac{\text{kom/pcs}}{1}$	C6
68 36	 1:4	"T" profil / "T" profile	2.75		$\frac{\text{kom/pcs}}{1}$	C6
68 35*	 1:4	"T" profil "T" profile	2.870	$I_x = 44.4690$ $I_y = 33.1882$	$\frac{\text{kom/pcs}}{1}$	C7
68 41	 1:4	srednja dopuna / central rabbet	1.380	$I_x = 8.7645$ $I_y = 20.9116$	$\frac{\text{kom/pcs}}{2}$	C7
NG1	 1:2	Dopuna 6834 Rabbet for 6834	0.293		$\frac{\text{kom/pcs}}{2}$	C8
NG2	 1:2	Dopuna 6834 Rabbet for 6834	0.343		$\frac{\text{kom/pcs}}{2}$	C8

ALT
68

B

3



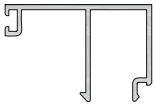
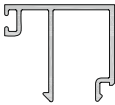
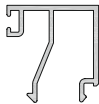
oznaka code	izgled design	opis description	G Kg/m	$\frac{I_x}{I_y}$ cm ⁴	Pakovanje sadrži šipke od 6 m Package contains 6 m bars	strana page
68 01	 1:4	Prag / Treshold	0.570		$\frac{\text{kom/pcs}}{1}$	C8
68 50	 1:4	termo prag / Termo treshold	0.99		$\frac{\text{kom/pcs}}{1}$	C9
68 51	 1:4	Dopuna 6836 Rabbet for 6836	0.250		$\frac{\text{kom/pcs}}{1}$	C9
68 52	 1:4	Dopuna 6836 Rabbet for 6836	0.180		$\frac{\text{kom/pcs}}{1}$	C9
68 53	 1:4	Dopuna 6836 Rabbet for 6836	0.297		$\frac{\text{kom/pcs}}{1}$	C9
68 U1 *	 1:4	Dopuna za 90°/ Rabbet for 90°	1.500	$I_x = 19.3316$ $I_y = 21.6148$	$\frac{\text{kom/pcs}}{1}$	C10
68UPR *	 1:4	Dopuna za 70-180°/ Rabbet for 70-180°	1.700	$I_x = 29.0721$ $I_y = 29.0740$	$\frac{\text{kom/pcs}}{1}$	C10
NG3 *	 1:2	Dopuna 68 UPR Rabbet for 68 UPR	0.210		$\frac{\text{kom/pcs}}{2}$	C10
NG4 *	 1:2	Dopuna 68 UPR Rabbet for 68 UPR	0.140		$\frac{\text{kom/pcs}}{2}$	C10

ALT
68

B

4



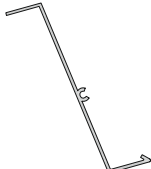
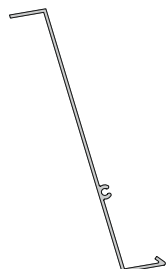
oznaka code	izgled design	opis description	G Kg/m	$\frac{I_x}{I_y}$ cm ⁴	Pakovanje sadrži šipke od 6 m Package contains 6 m bars	strana page
KL 40.1	 1:2	Kit lajsna / Glazing bead	0.420		$\frac{\text{kom/pcs}}{6}$	C11
KL 30.1	 1:2	Kit lajsna / Glazing bead	0.345		$\frac{\text{kom/pcs}}{6}$	C11
KL 25.1	 1:2	Kit lajsna / Glazing bead	0.329		$\frac{\text{kom/pcs}}{6}$	C11
KL 21.1	 1:2	Kit lajsna / Glazing bead	0.315		$\frac{\text{kom/pcs}}{6}$	C11
KL 17.1	 1:2	Kit lajsna / Glazing bead	0.278		$\frac{\text{kom/pcs}}{6}$	C11
KL 13.1	 1:2	Kit lajsna / Glazing bead	0.263		$\frac{\text{kom/pcs}}{6}$	C11
KL 10.1	 1:2	Kit lajsna / Glazing bead	0.260		$\frac{\text{kom/pcs}}{6}$	C11
KL 4.1	 1:2	Kit lajsna / Glazing bead	0.197		$\frac{\text{kom/pcs}}{6}$	C11

ALT
68

B

5



oznaka code	izgled design	opis description	G Kg/m	$\frac{I_x}{I_y}$ cm ⁴	Pakovanje sadrži šipke od 6 m Package contains 6 m bars	strana page
OK 1	 1:2	Okapnica / Water drainage	0.150		$\frac{\text{kom/pcs}}{2}$	C11
K 1	 1:2	Klizač / Skater	0.130		$\frac{\text{kom/pcs}}{6}$	C11
OK 100	 1:4	Okapnica / Water drainage	0.750		$\frac{\text{kom/pcs}}{1}$	C12
OK 150	 1:4	Okapnica / Water drainage	0.956		$\frac{\text{kom/pcs}}{1}$	C12

segment C

profili
profiles

ALT
68

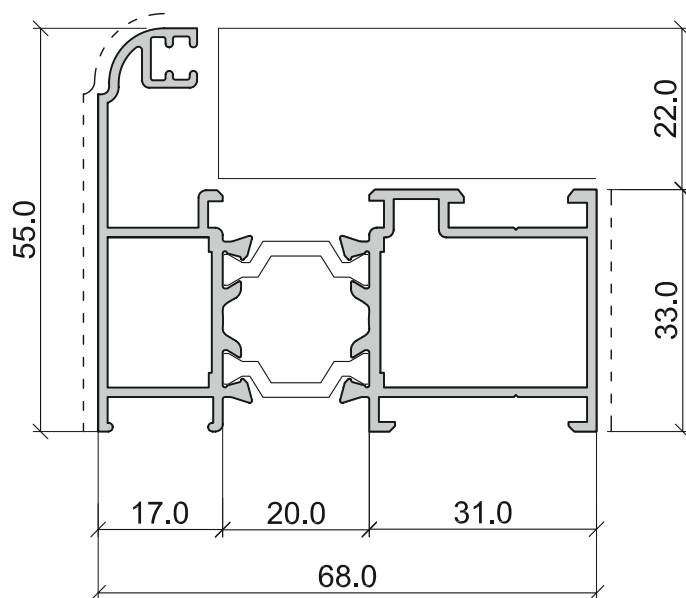
C

1



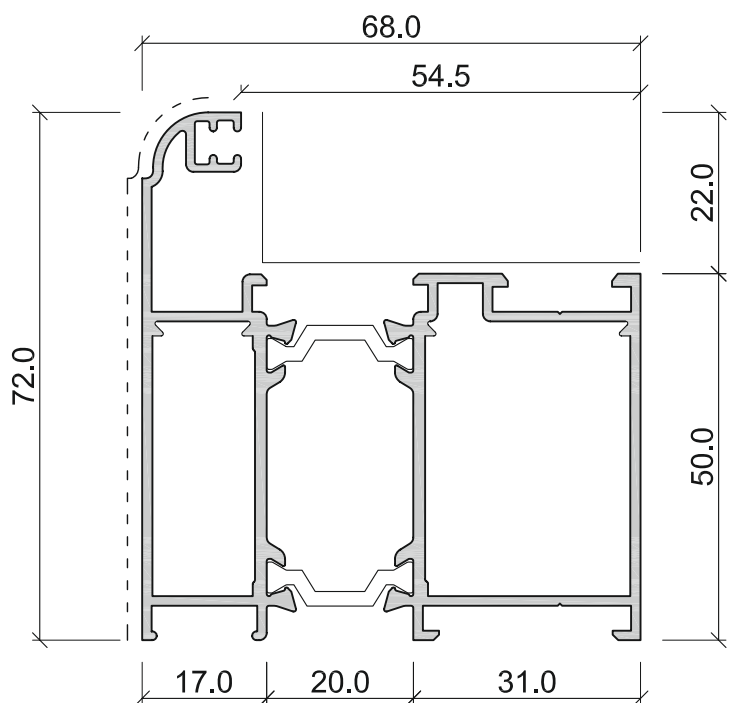
68 11

Štok / Frame
1.413 Kg/m'



68 12

Štok / Frame
1.672 Kg/m'



vidna površina / visible surface

povremeno vidna površina / occasionally visible surface

ALT
68

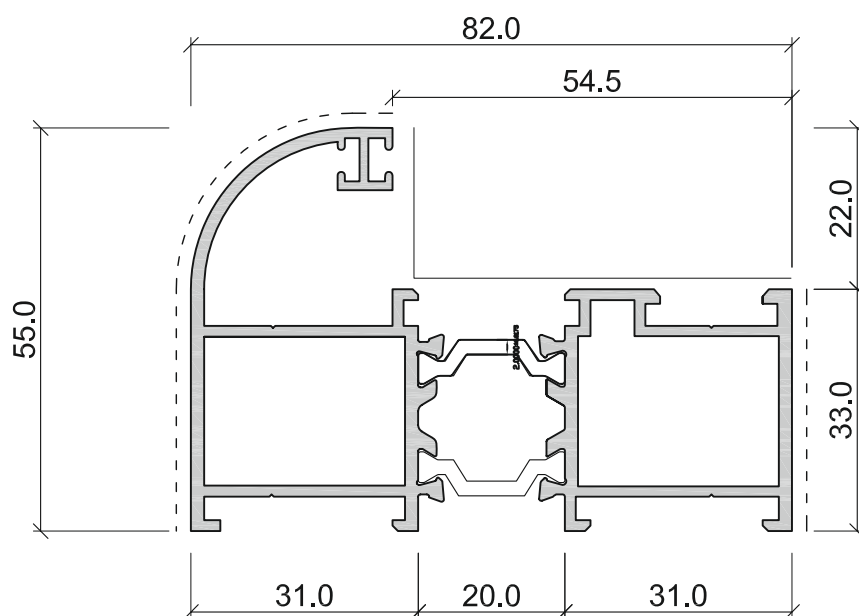
C

2



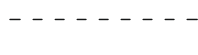
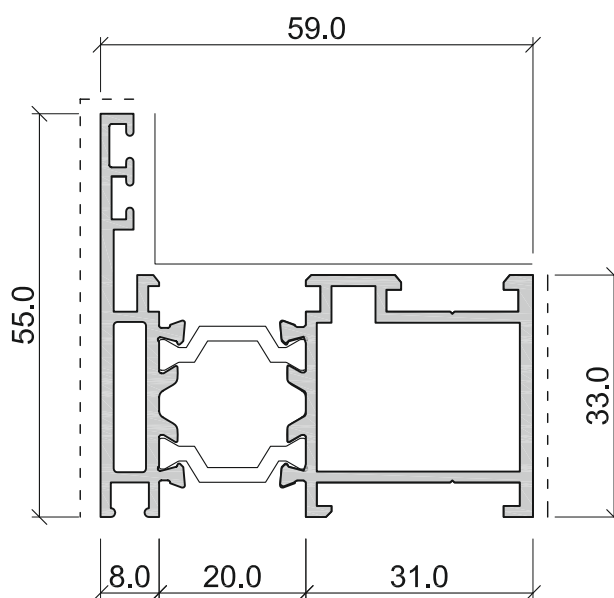
68 13

Štok / Frame
1.667 Kg/m'



68 14

Štok / Frame
1.354 Kg/m'



vidna površina / visible surface

povremeno vidna površina / occasionally visible surface

ALT
68

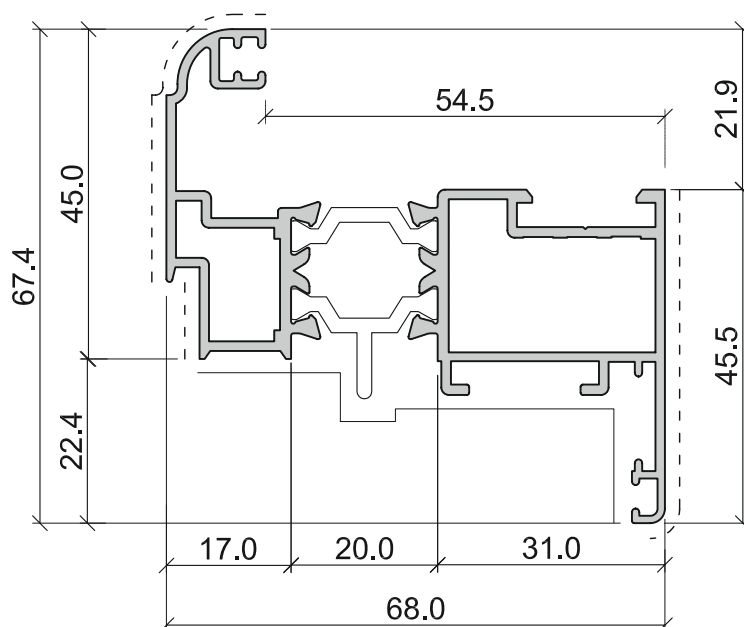
C

3



68 21

Krilo / Sash
1.406 Kg/m'



----- vidna površina / visible surface
----- povremeno vidna površina / occasionally visible surface

ALT
68

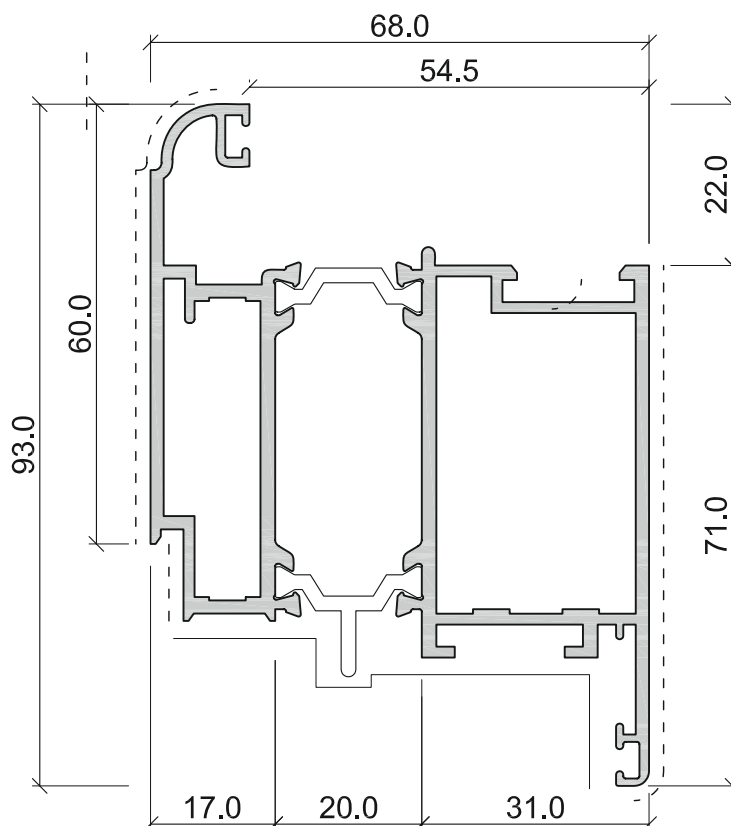
C

4



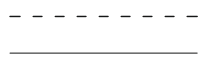
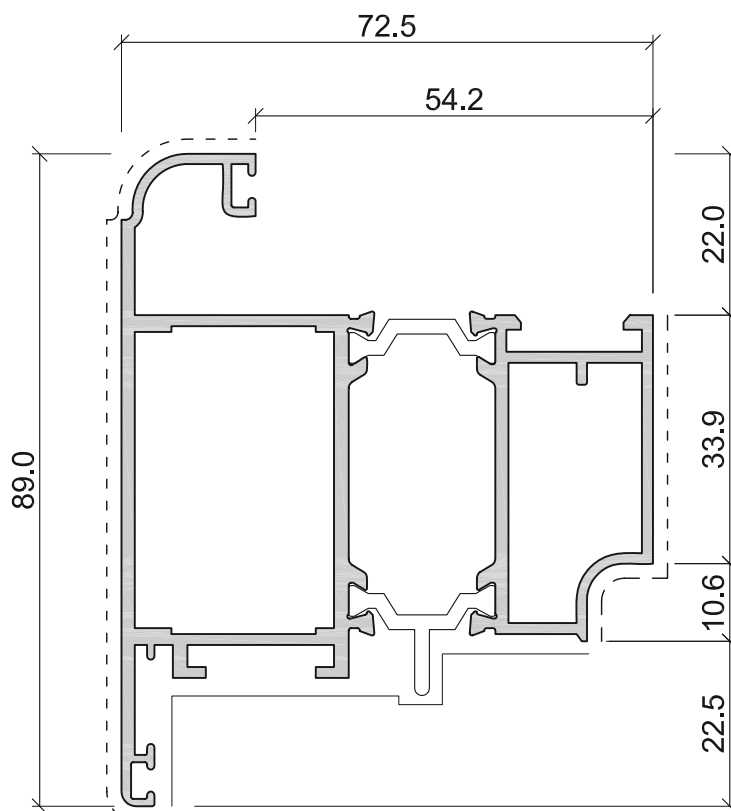
68 23

Krilo / Sash
2.078 Kg/m'



68 24

Krilo / Sash
1.935 Kg/m'



vidna površina / visible surface

povremeno vidna površina / occasionally visible surface

ALT
68

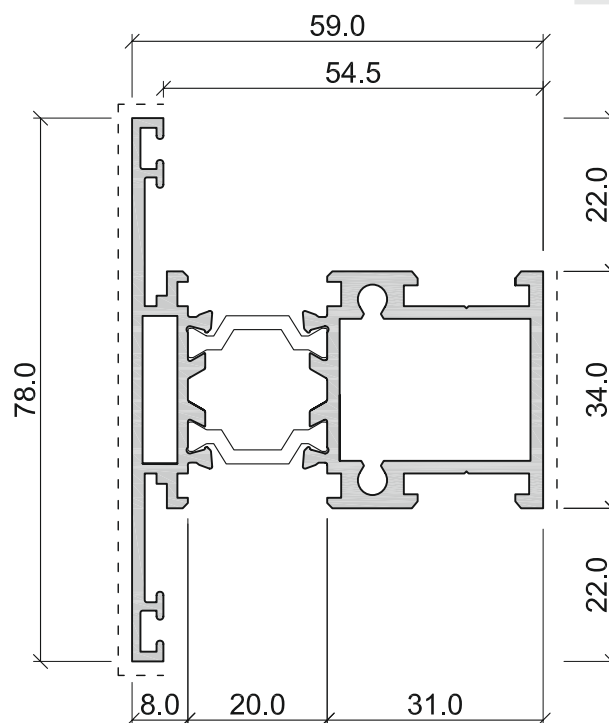
C

5



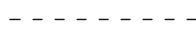
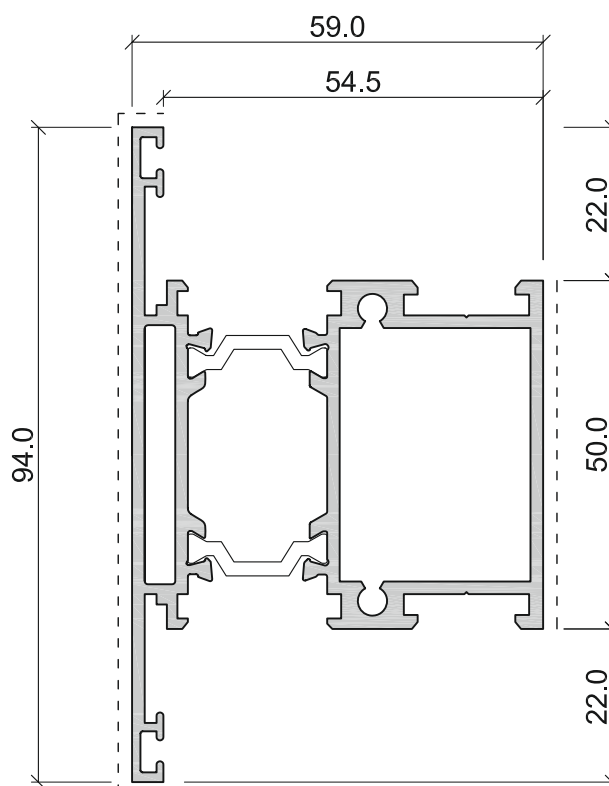
68 32

"T" Profil / "T" Profile
1.644 Kg/m'



68 33

"T" Profil / "T" Profile
1.973 Kg/m'



vidna površina / visible surface

povremeno vidna površina / occasionally visible surface

ALT
68

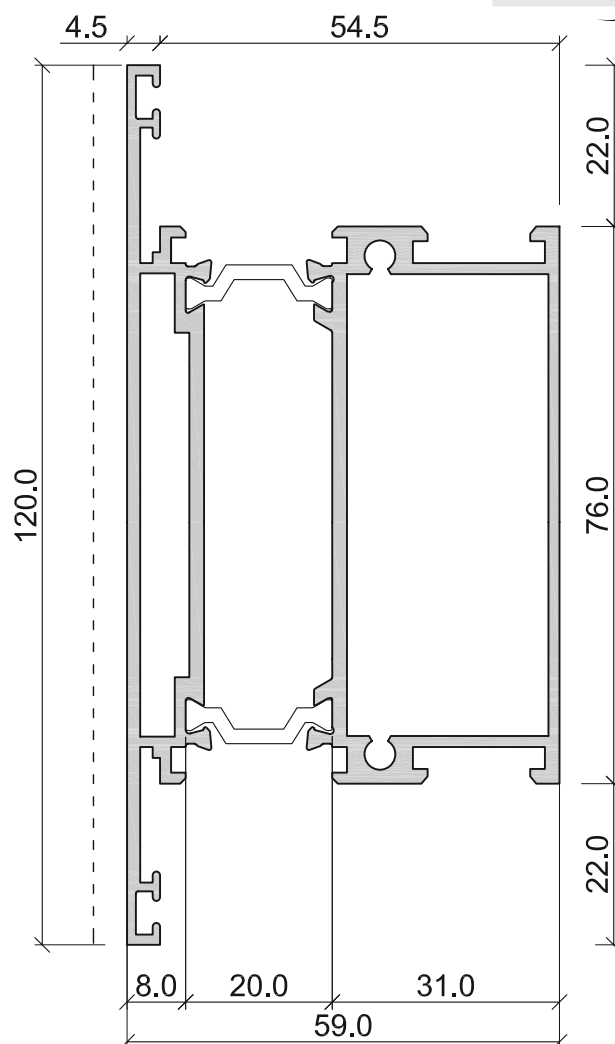
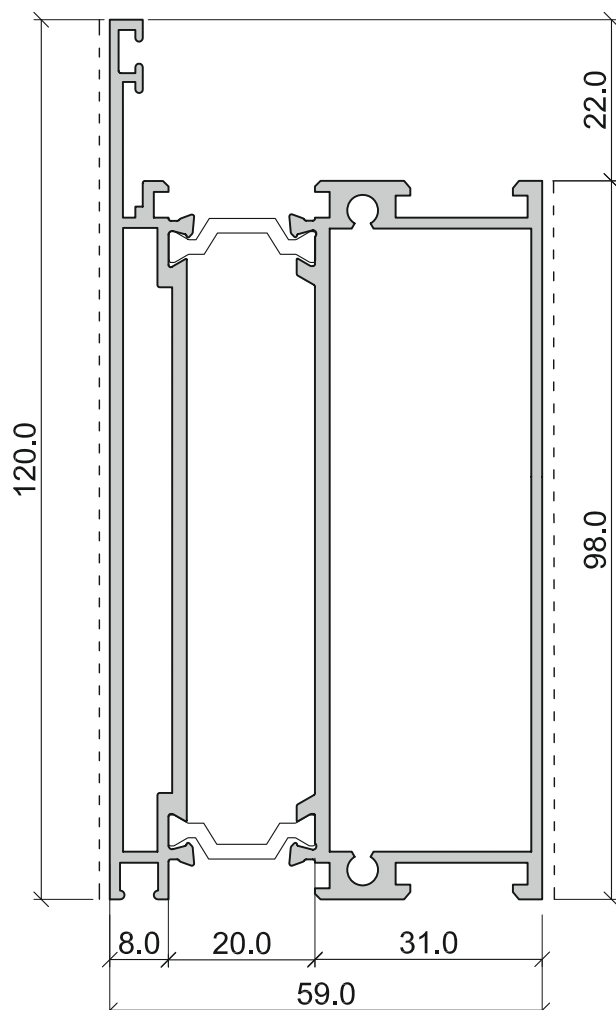
C

6



68 34

Parapetni profil /
Bottom Profile
2.380 Kg/m'

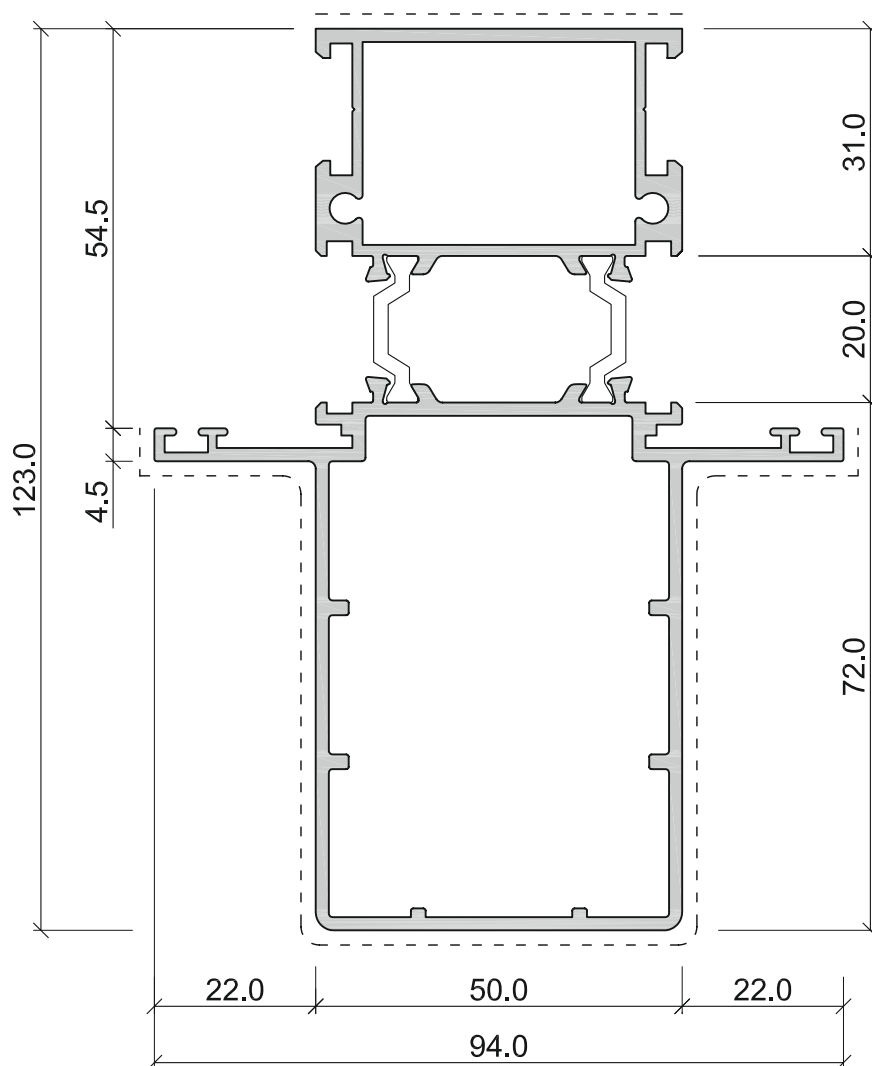


68 36

Parapetni profil / Bottom
profile
2.75 Kg/m'

----- vidna površina / visible surface
———— povremeno vidna površina / occasionally visible surface

ALT 68	C	7
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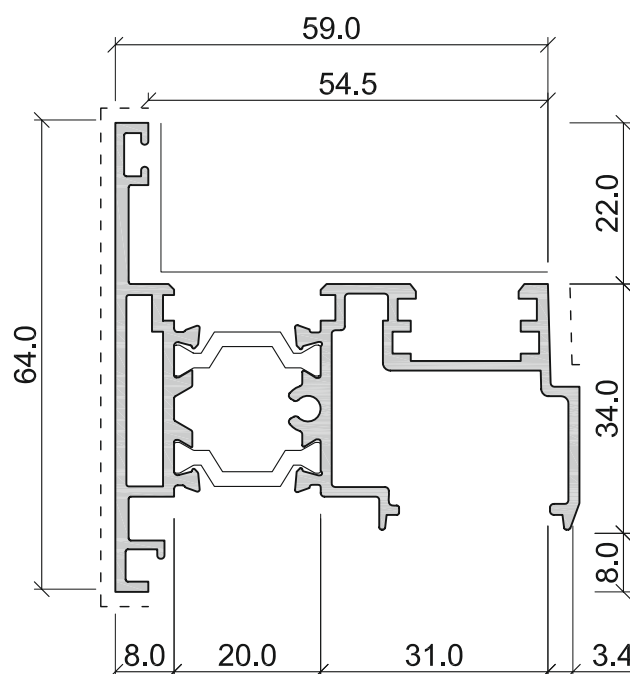


68 35 *

"T" Profil / "T" Profile
2.870 Kg/m'

68 41

Srednja dopuna /
Central rabbet
1.380 Kg/m'



* iporučuju se po posebnoj narudžbini /on demand
----- vidna površina / visible surface
_____ povremeno vidna površina / occasionally visible surface

ALT
68

C

8

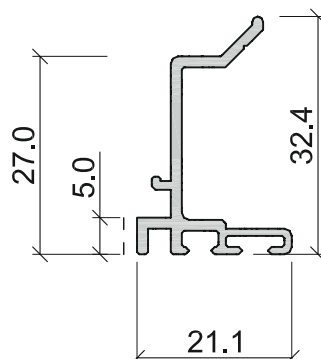


NG1

Nosač dihtunga /
Caulker bearer

M 5129

0.293 Kg/m'

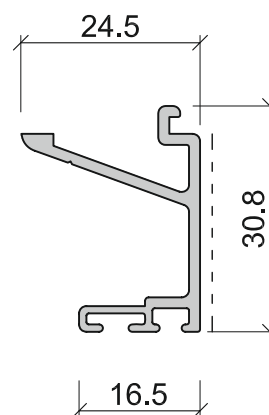


NG2

Nosač dihtunga /
Caulker bearer

M 5130

0.343 Kg/m'

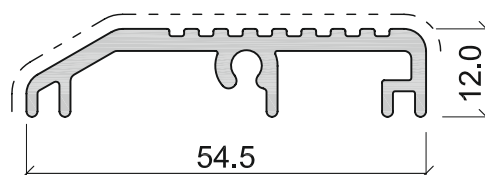


68 01

Prag / Treshold

M 4697

0.570 Kg/m'



* iporučuju se po posebnoj narudžbini /on demand

----- vidna površina / visible surface

_____ povremeno vidna površina / occasionally visible surface

ALT
68

C

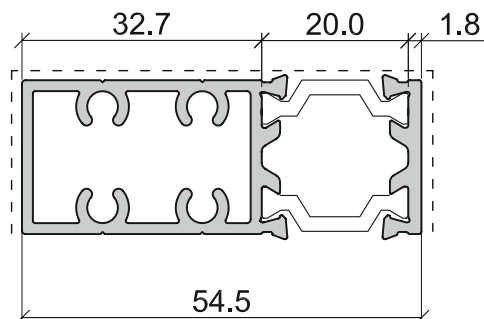
9



68 50

Termo prag/ Termo
treshold

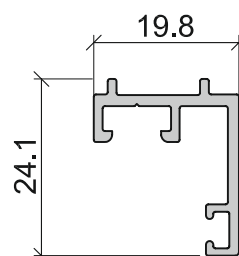
0.99 Kg/m'



68 51

Termo prag/ Termo
treshold

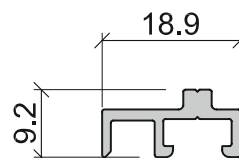
0.250 Kg/m'



68 52

Termo prag/ Termo
treshold

0.180 Kg/m'

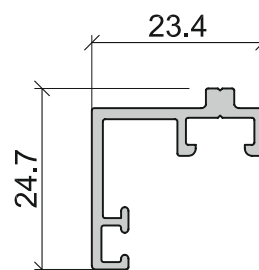


68 53

Termo prag/ Termo
treshold

0.297 Kg/m'

u izradi

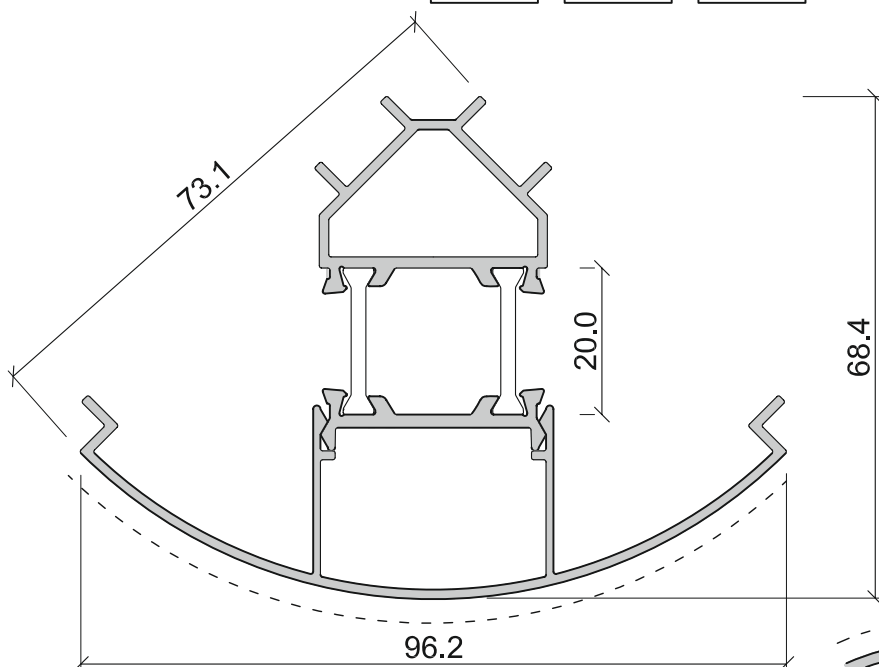


* iporučuju se po posebnoj narudžbini /on demand
 - - - - - vidna površina / visible surface
 _____ povremeno vidna površina / occasionally visible surface

ALT
68

C

10

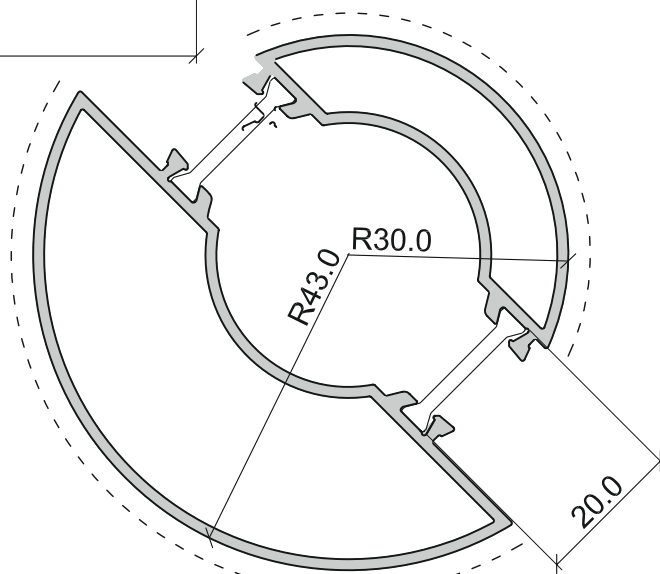


68 U1 *

Dopuna za < 90°/
Rabbit for < 90°
1.500 Kg/m'

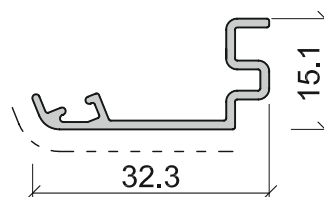
U PR*

Dopuna za < 70-180°/
Rabbit for < 70-180°
1.700 Kg/m'



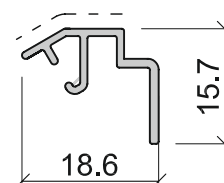
NG3*

Nosač dihtunga /
Caulker bearer
M 5268
0.210 Kg/m'



NG4*

Nosač dihtunga /
Caulker bearer
M 5270
0.140 Kg/m'

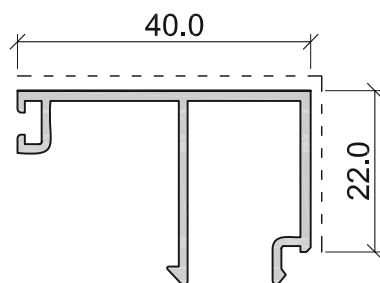


* iporučuju se po posebnoj narudžbini /on demand
- - - - - vidna površina / visible surface
_____ povremeno vidna površina / occasionally visible surface

ALT
68

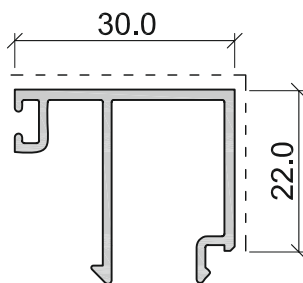
C

11



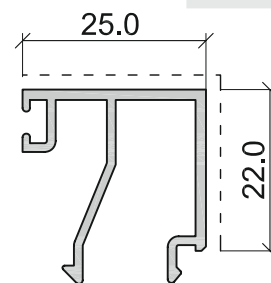
KL 40.1

Kit lajsna / Glazing bead
M 5616
0.420 Kg/m'



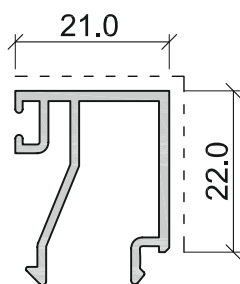
KL 30.1

Kit lajsna
M 4807
0.345 Kg/m'



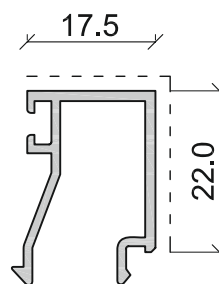
KL 25.1

Kit lajsna
M 4849
0.329 Kg/m'



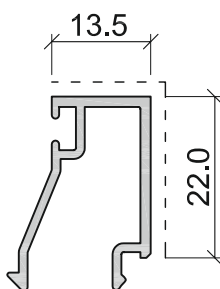
KL 21.1

Kit lajsna
M 4951
0.315 Kg/m'



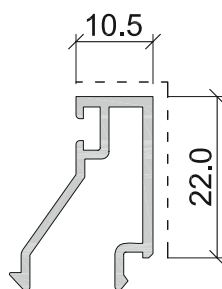
KL 17.1

Kit lajsna
M 5136
0.278 Kg/m'



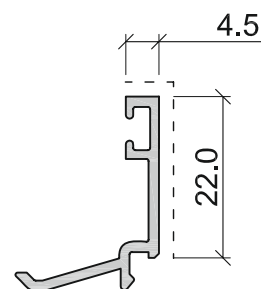
KL 13.1

Kit lajsna
M 4809
0.263 Kg/m'



KL 10.1

Kit lajsna
M 5135
0.260 Kg/m'



KL 4.1

Kit lajsna
M 4808
0.197 Kg/m'

* iporučuju se po posebnoj narudžbini / on demand
- - - - - vidna površina / visible surface
_____ povremeno vidna površina / occasionally visible surface

ALT
68

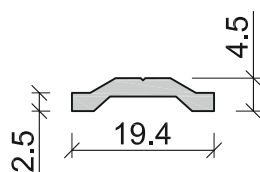
C

12



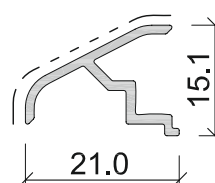
K 1

Klizač / Skater
M 3333
0.130 Kg/m'



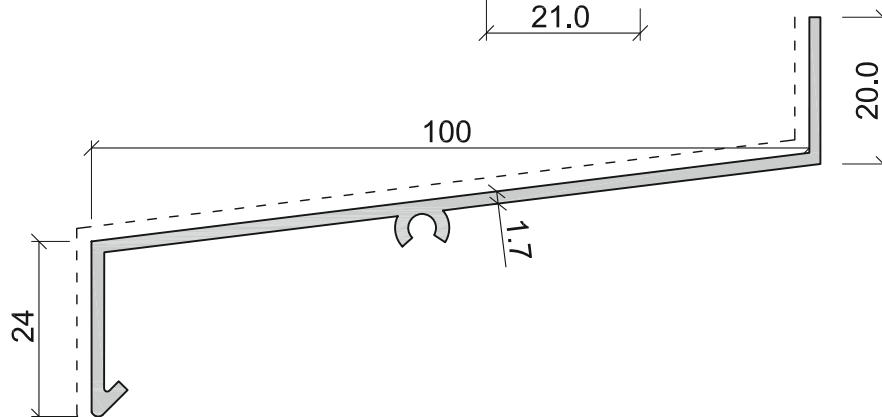
OK 1

Okapnica /
Water drainage
M 3242
0.130 Kg/m'



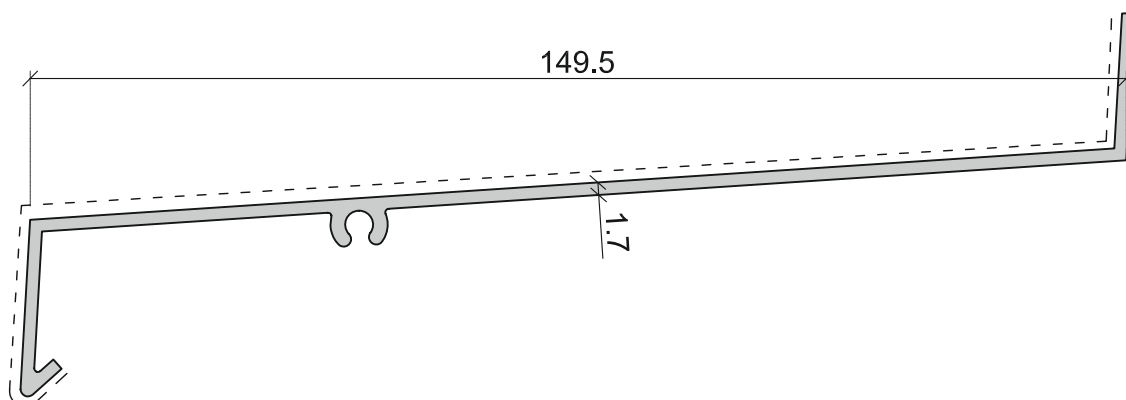
OK 100

Okapnica / Water drainage
M 1240
0.750 Kg/m'



OK 150

Okapnica / Water drainage
M 1320
0.956 Kg/m'



- * iporučuju se po posebnoj narudžbini / on demand
 - - - - - vidna površina / visible surface
 ————— povremeno vidna površina / occasionally visible surface

ALT
68

C

13



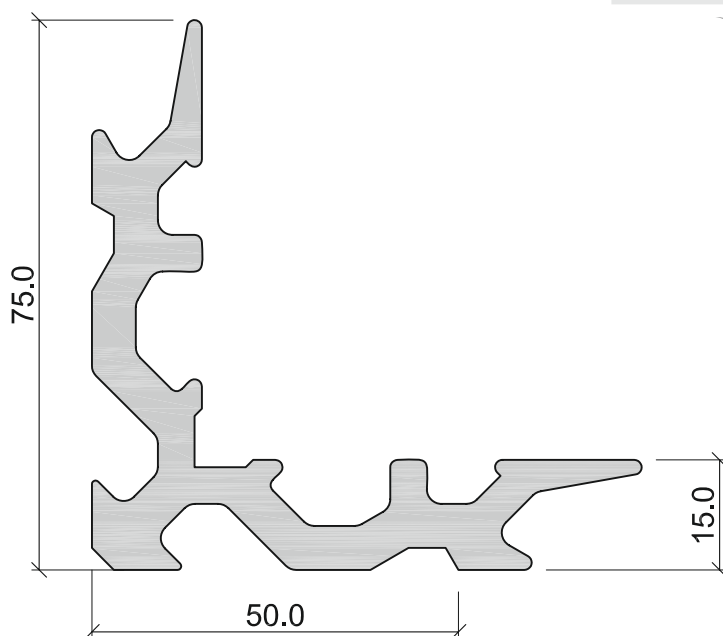
M 5224

Uložka / Joint corner

2.689 Kg/m'

S 15 - 8

S 15 - 27



M 5227

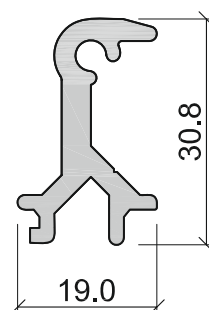
Sučeona spojnica / Joint

0.507 Kg/m'

SS - 20

SS - 36

SS - 63



M 5225

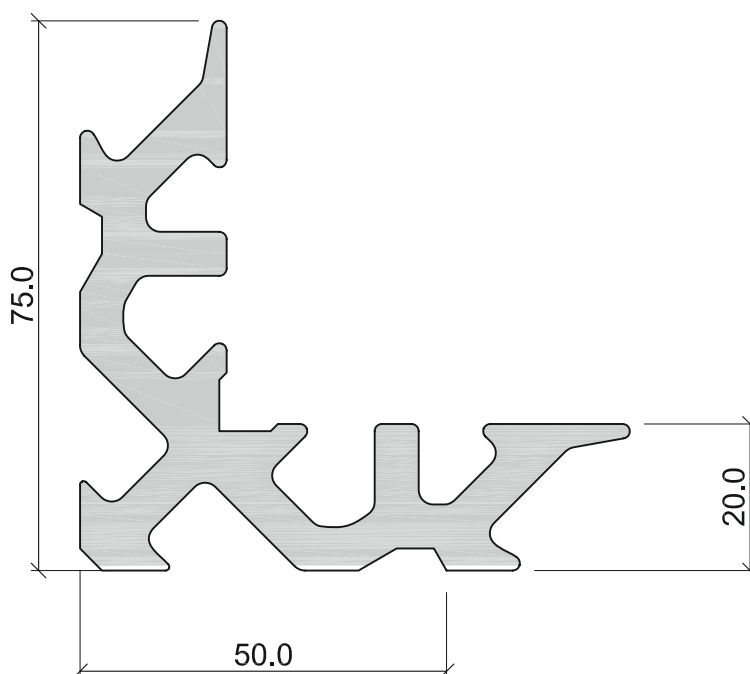
Uložka / Joint corner

3.342 Kg/m'

S 20 - 8

S 20 - 13

S 20 - 27



ALT
68

C

14



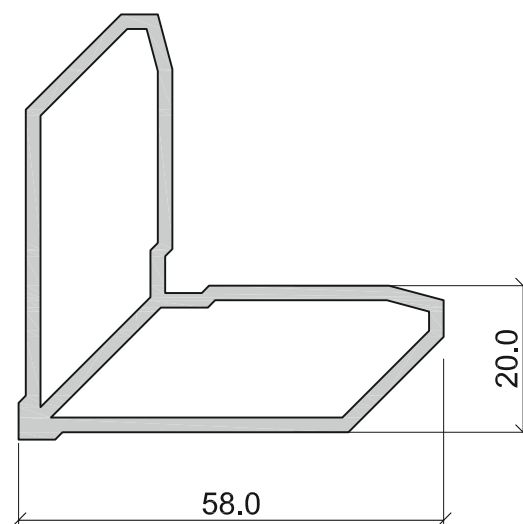
ŠP 1501

Dopuna uloške /Complement
joint corner

1.250 Kg/m'

D 20 . 1 L= 27 mm

D 20 . 2 L= 8 mm



M 5226

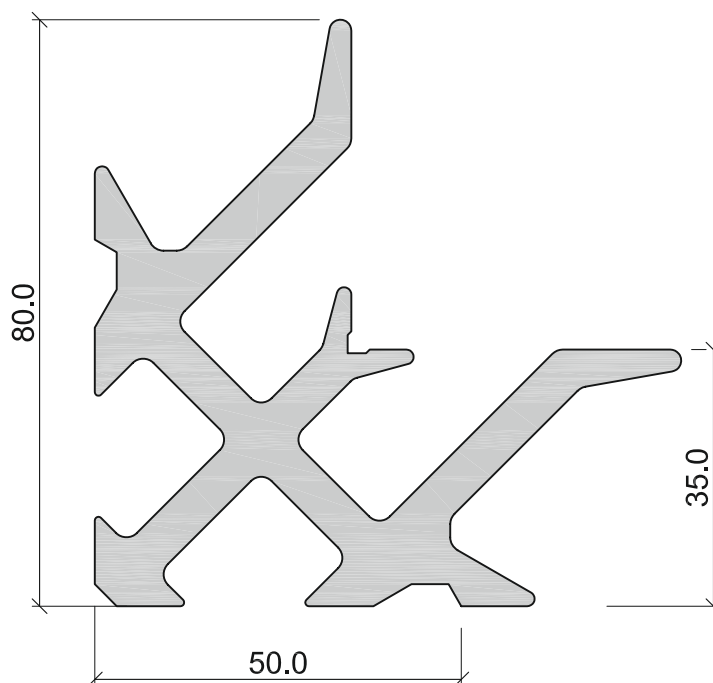
Uložka / Joint corner

3.907 Kg/m'

S 35 - 9

S 35 - 13

S 35 - 27



ALT	C	15
68		



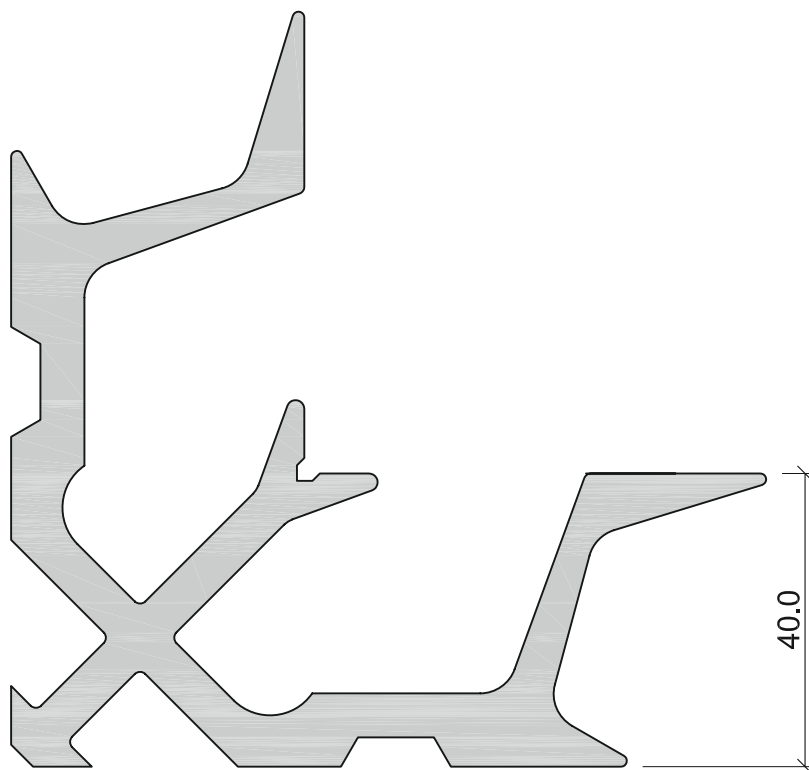
M 4954

Uložka / Joint corner

5.187 Kg/m'

S 40 - 8

S 40 - 27

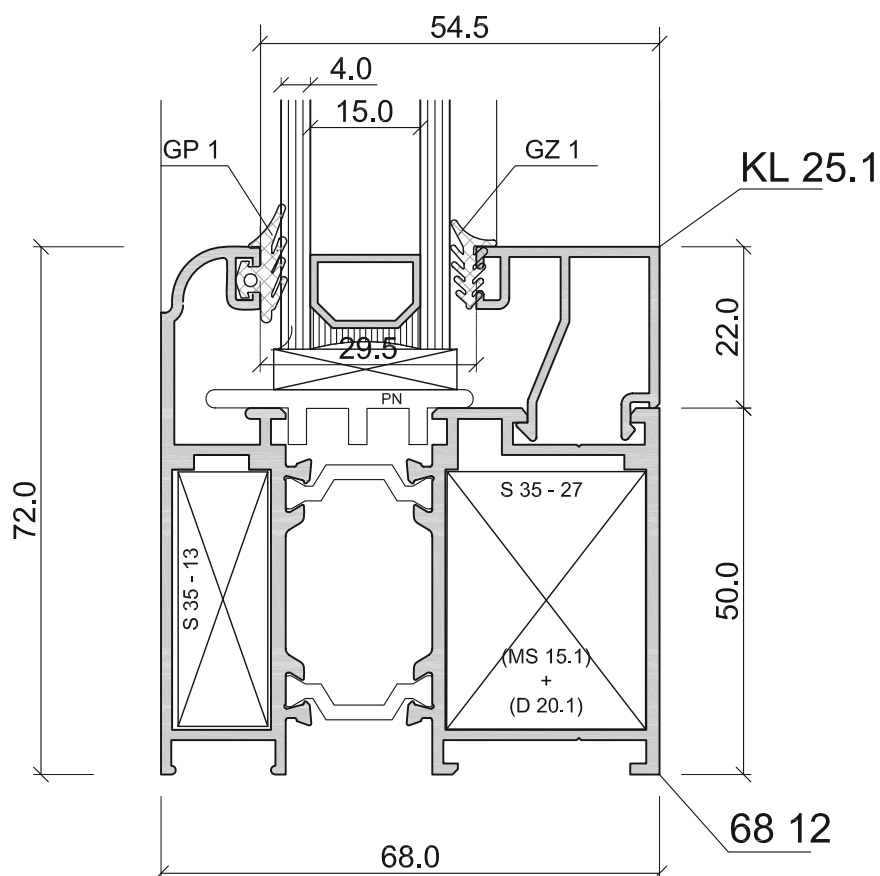
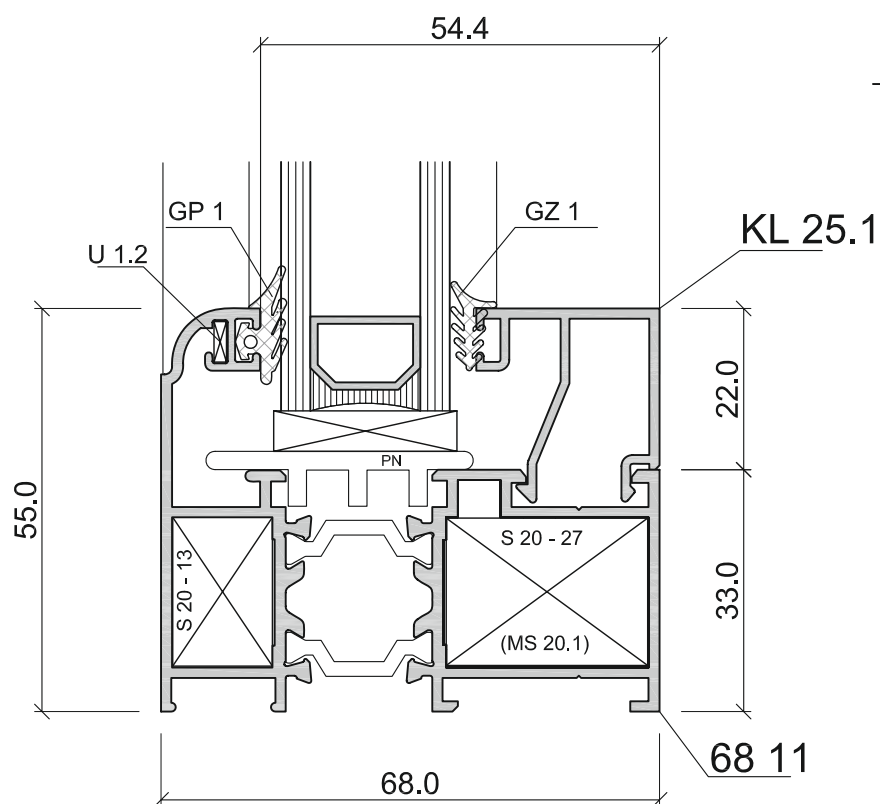
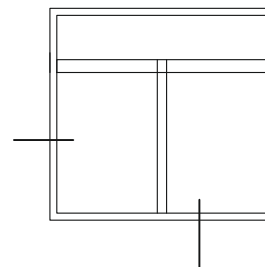


segment D

detalji

technical details

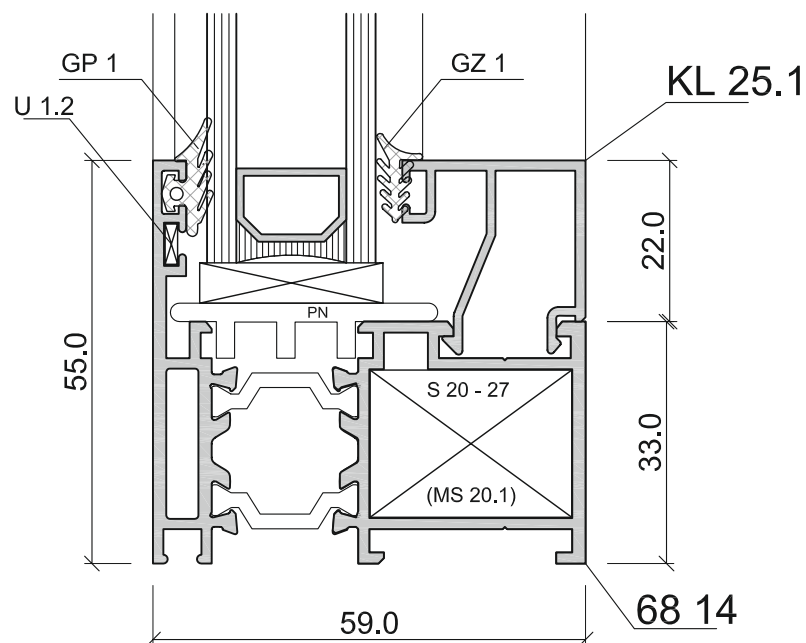
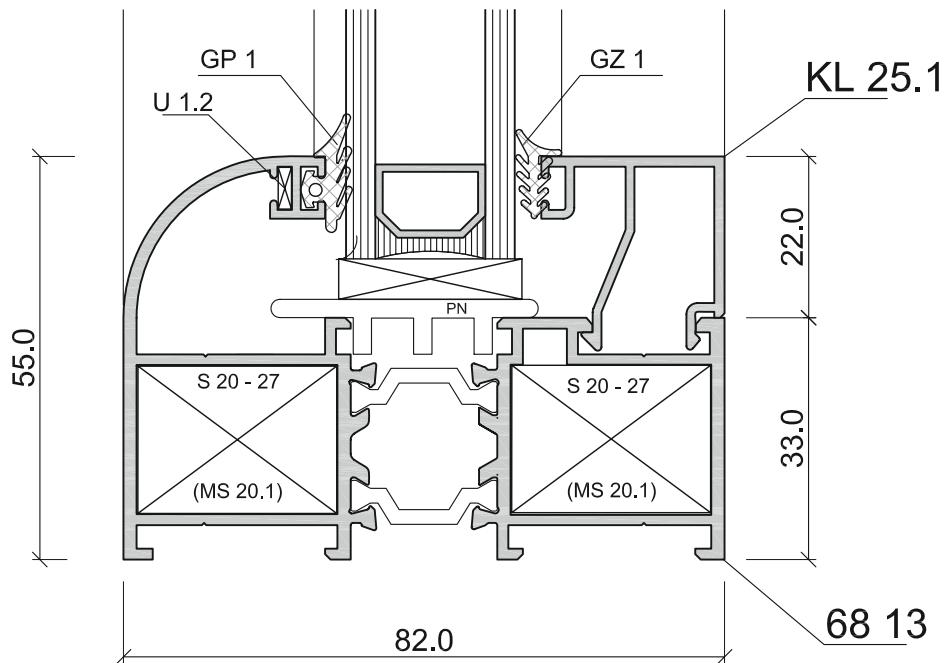
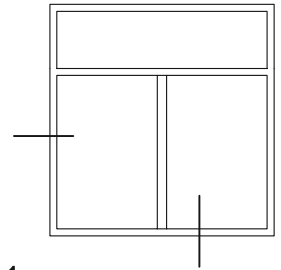
ALT	D	1
68		



ALT
68

D

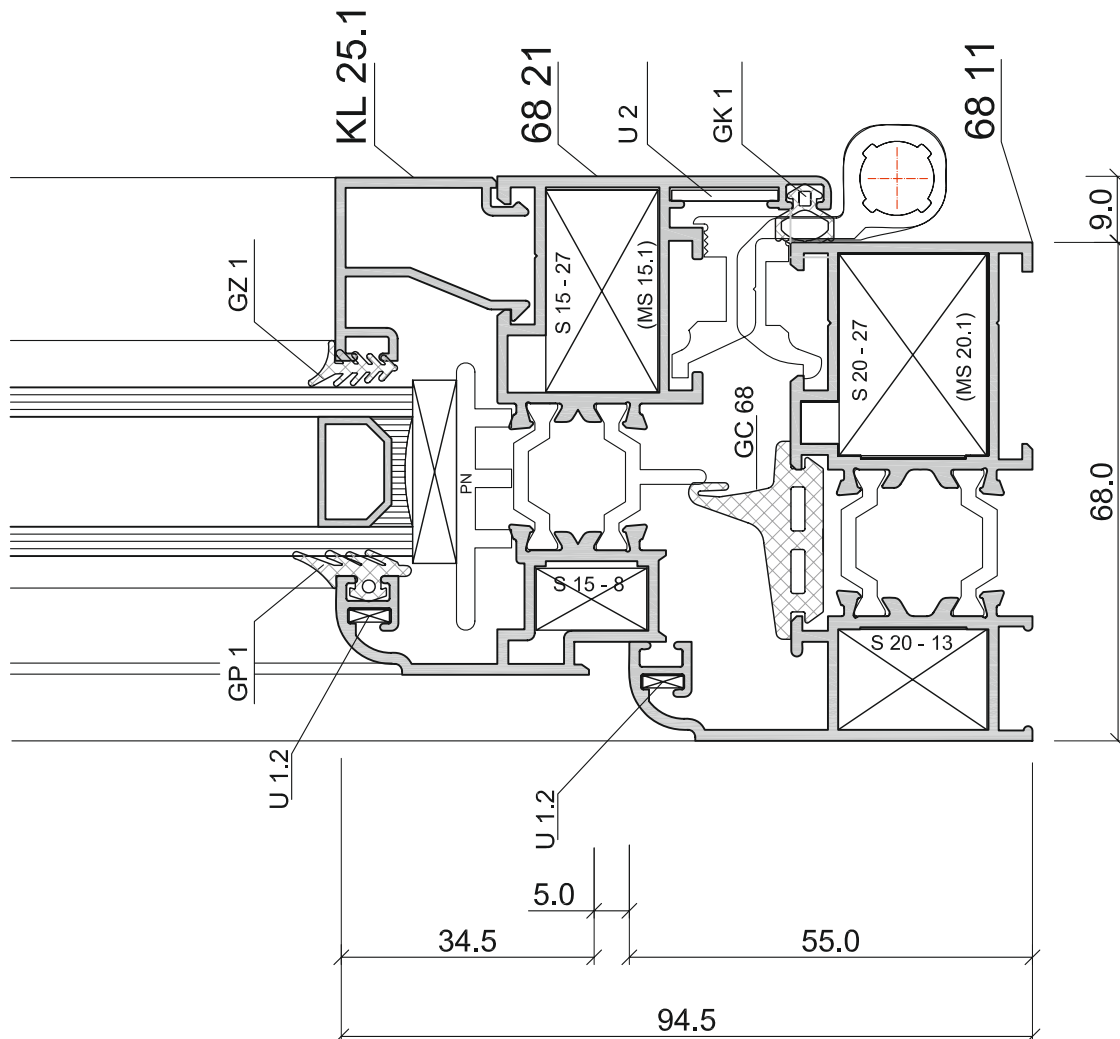
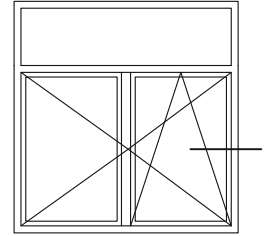
2



ALT
68

D

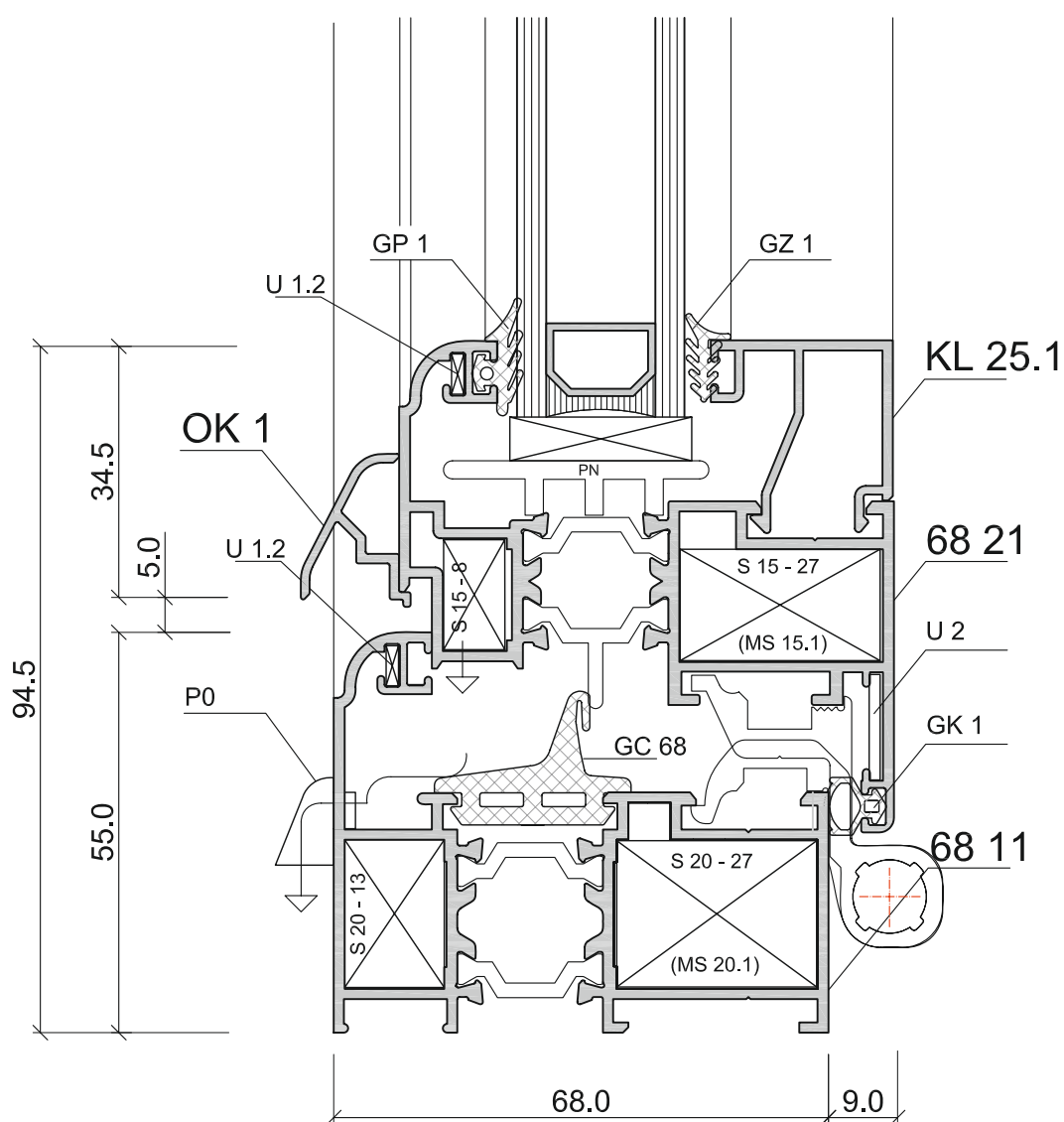
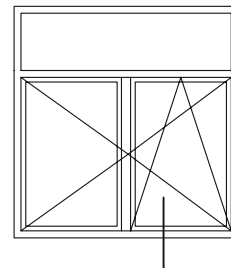
3



ALT
68

D

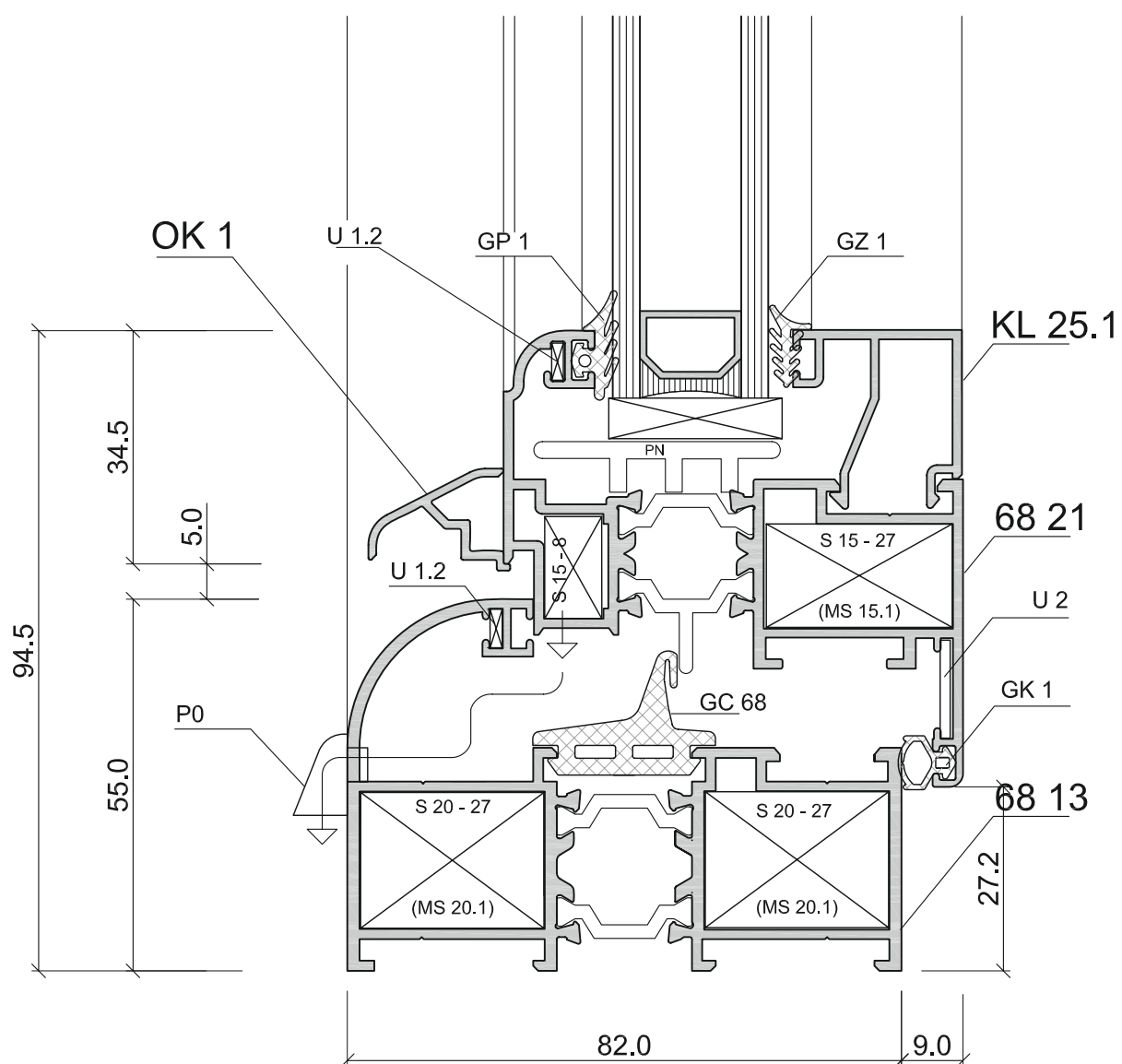
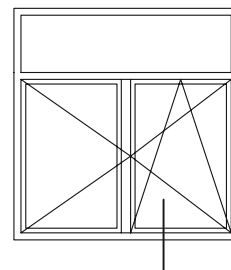
4



ALT
68

D

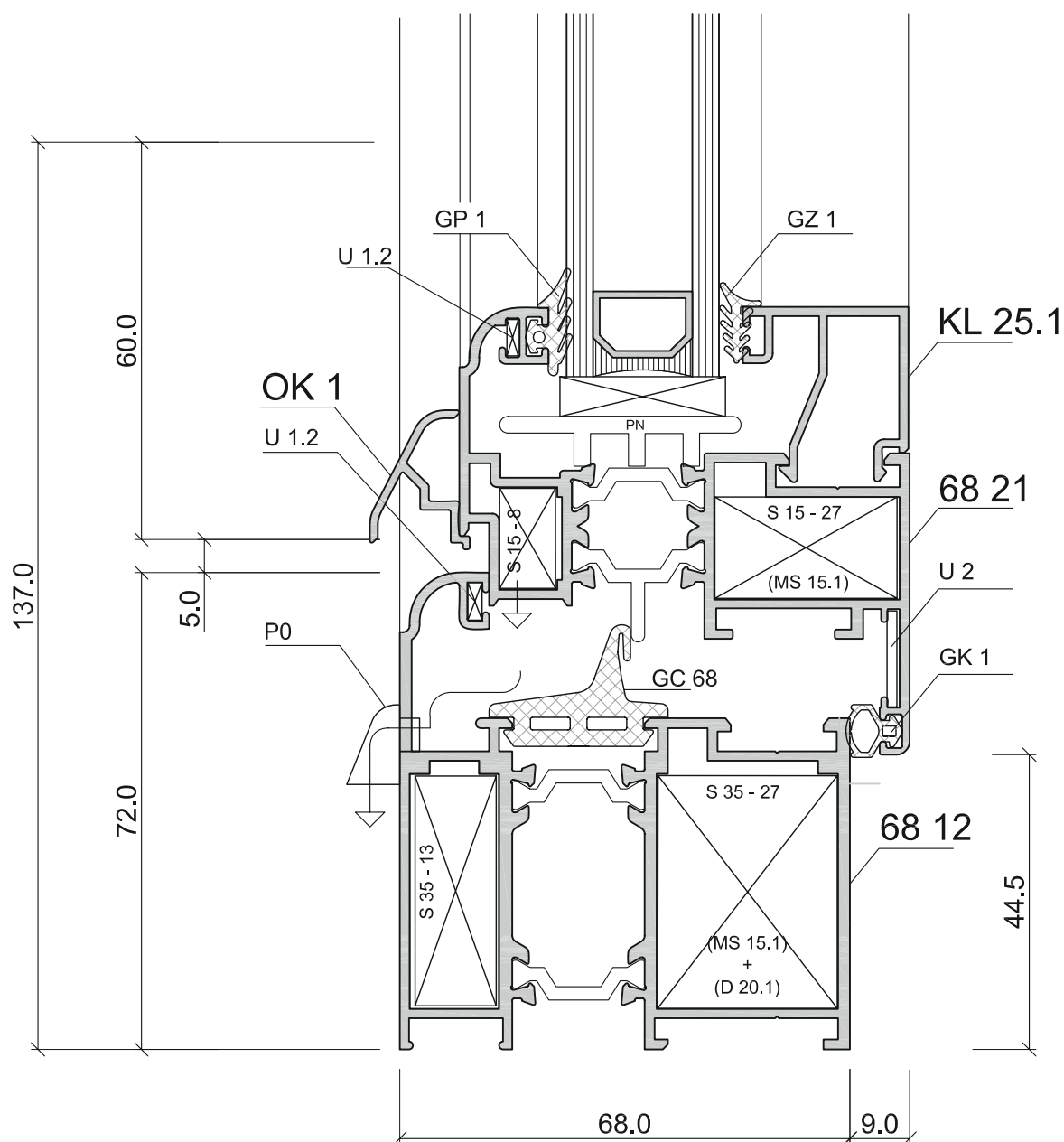
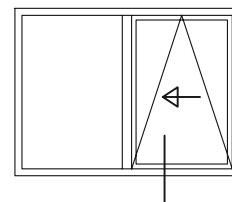
5



ALT
68

D

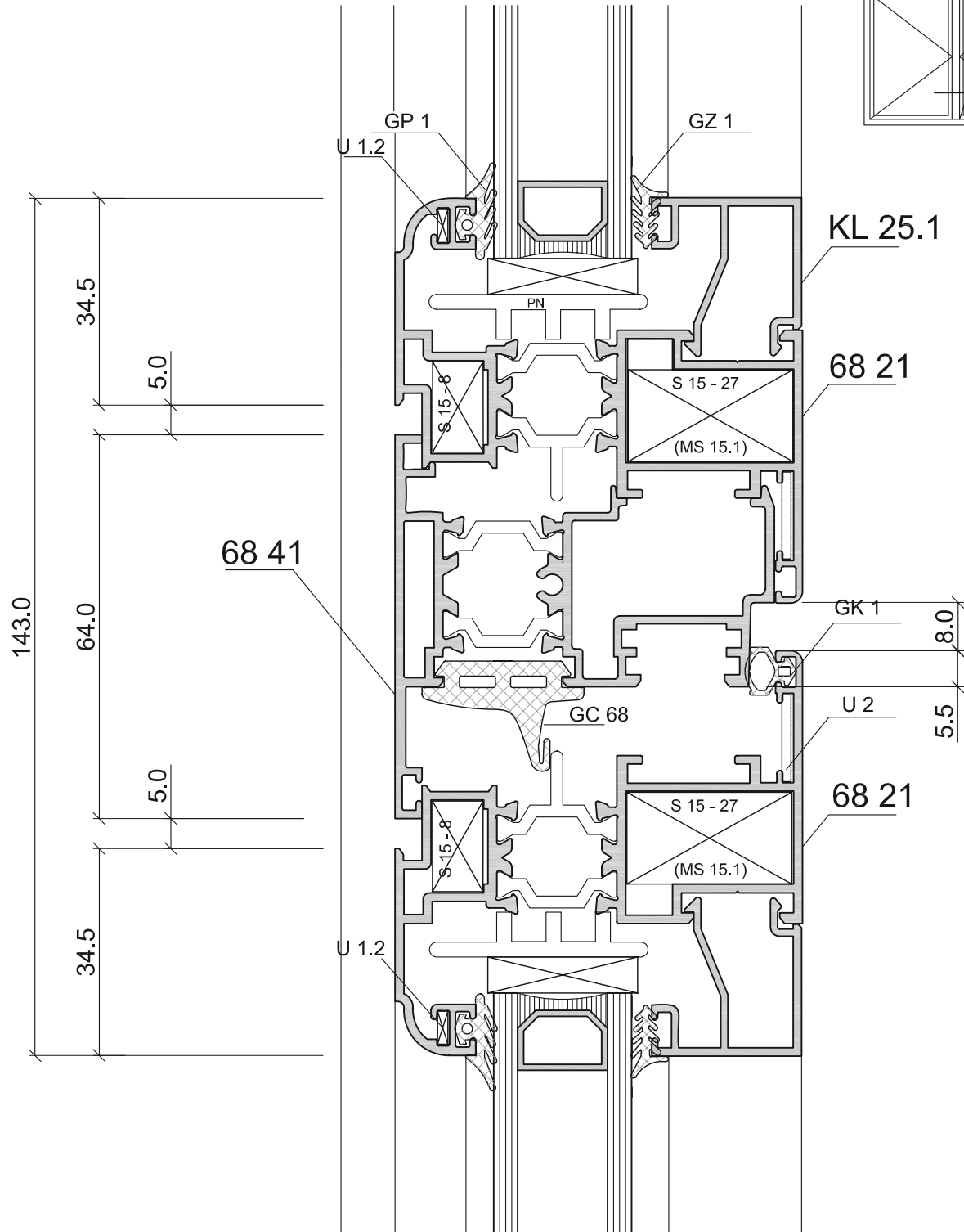
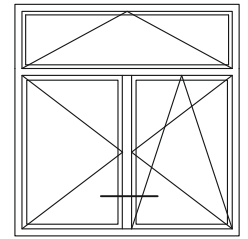
6



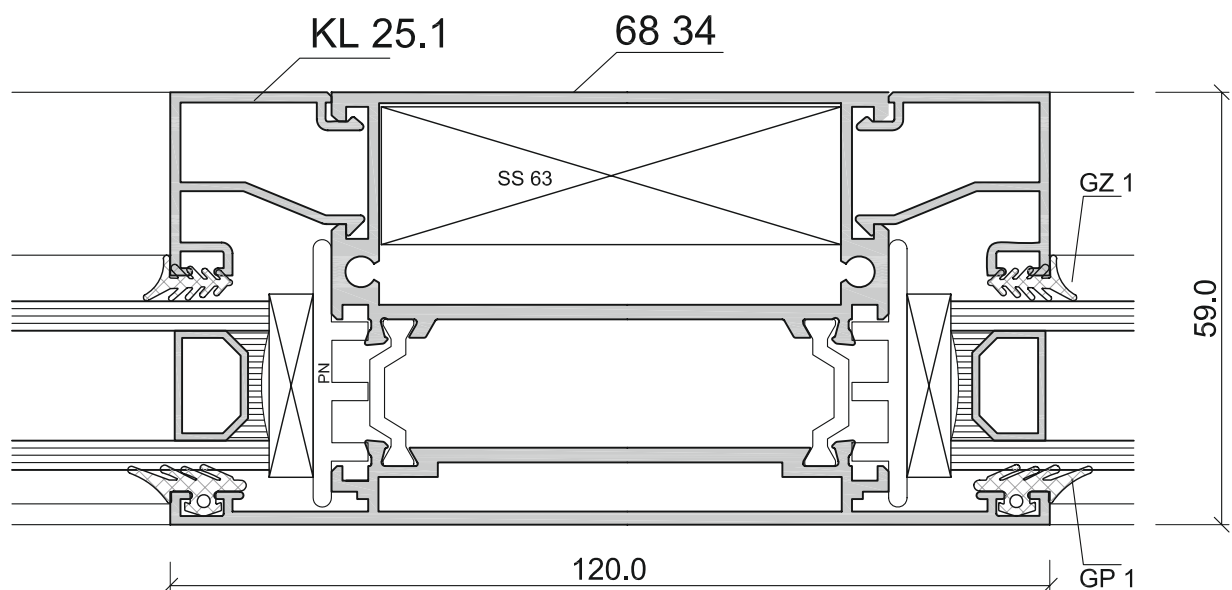
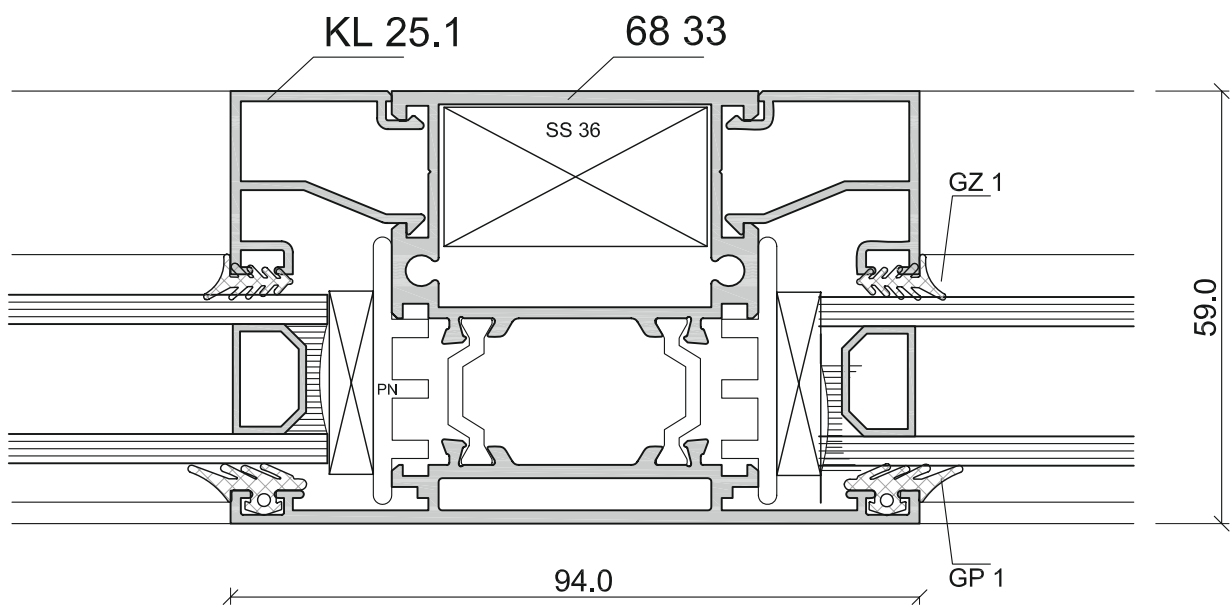
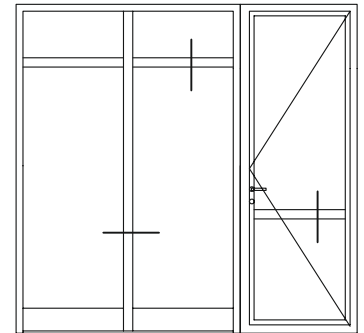
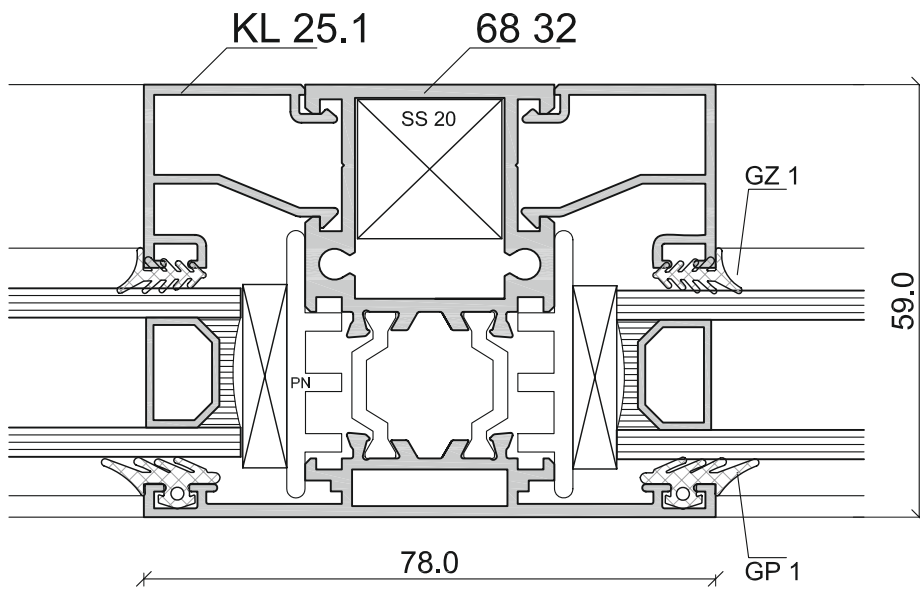
ALT
68

D

7



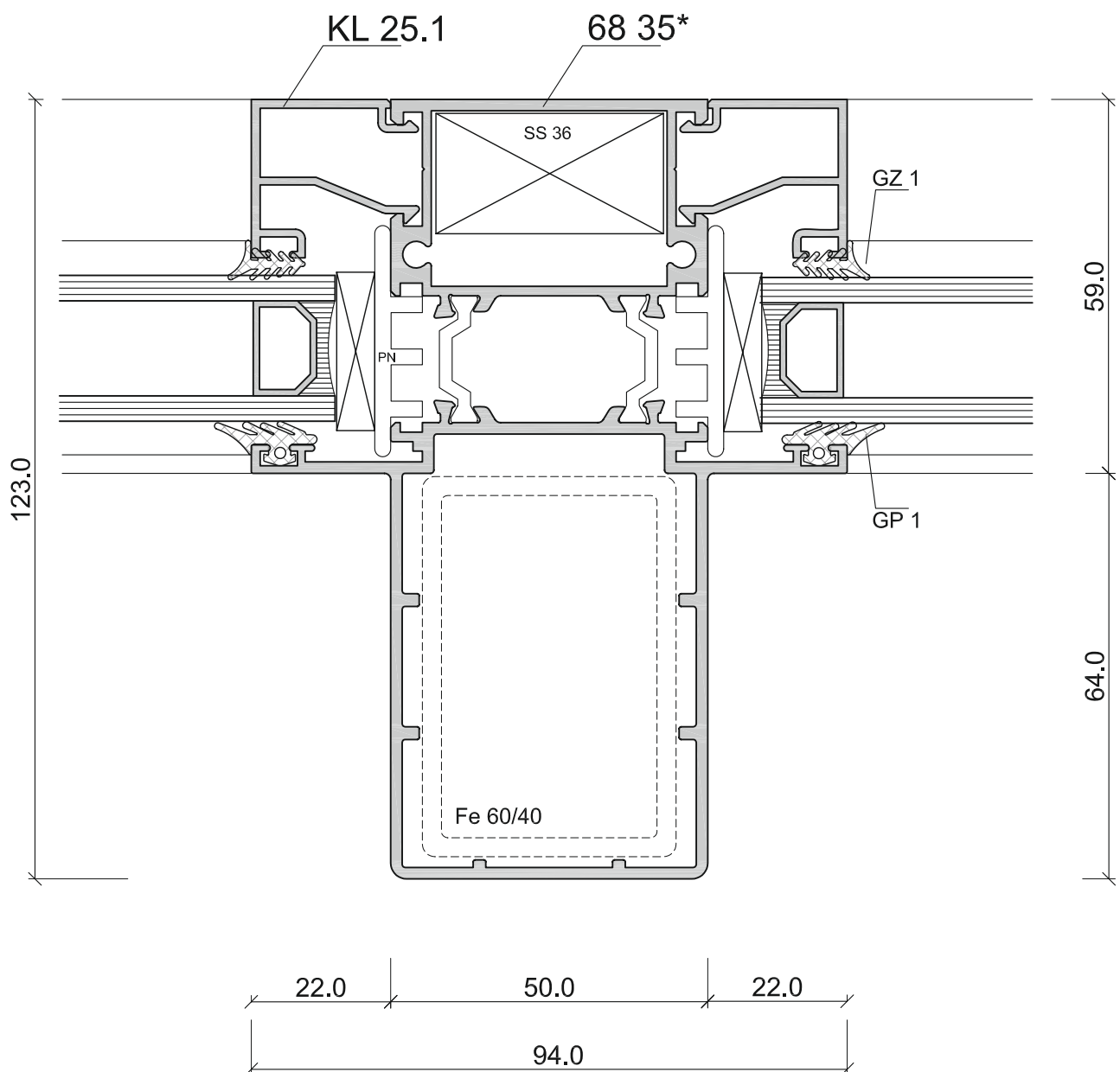
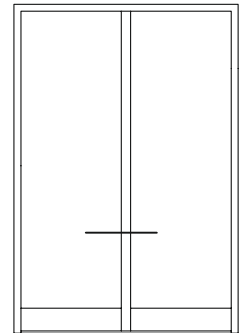
ALT	D	8
68		



ALT
68

D

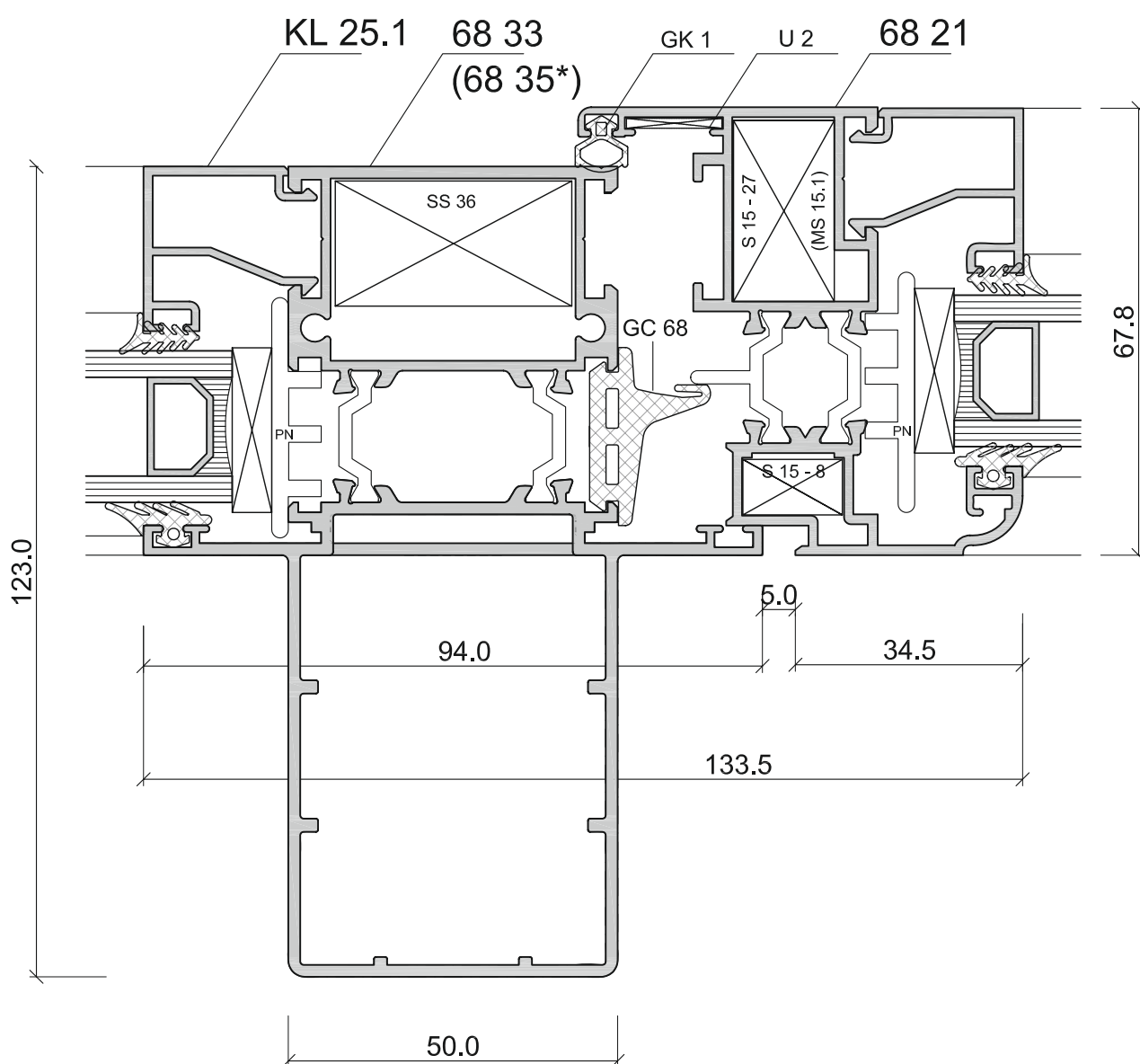
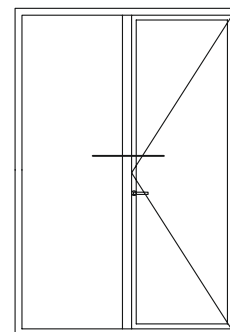
9



ALT
68

D

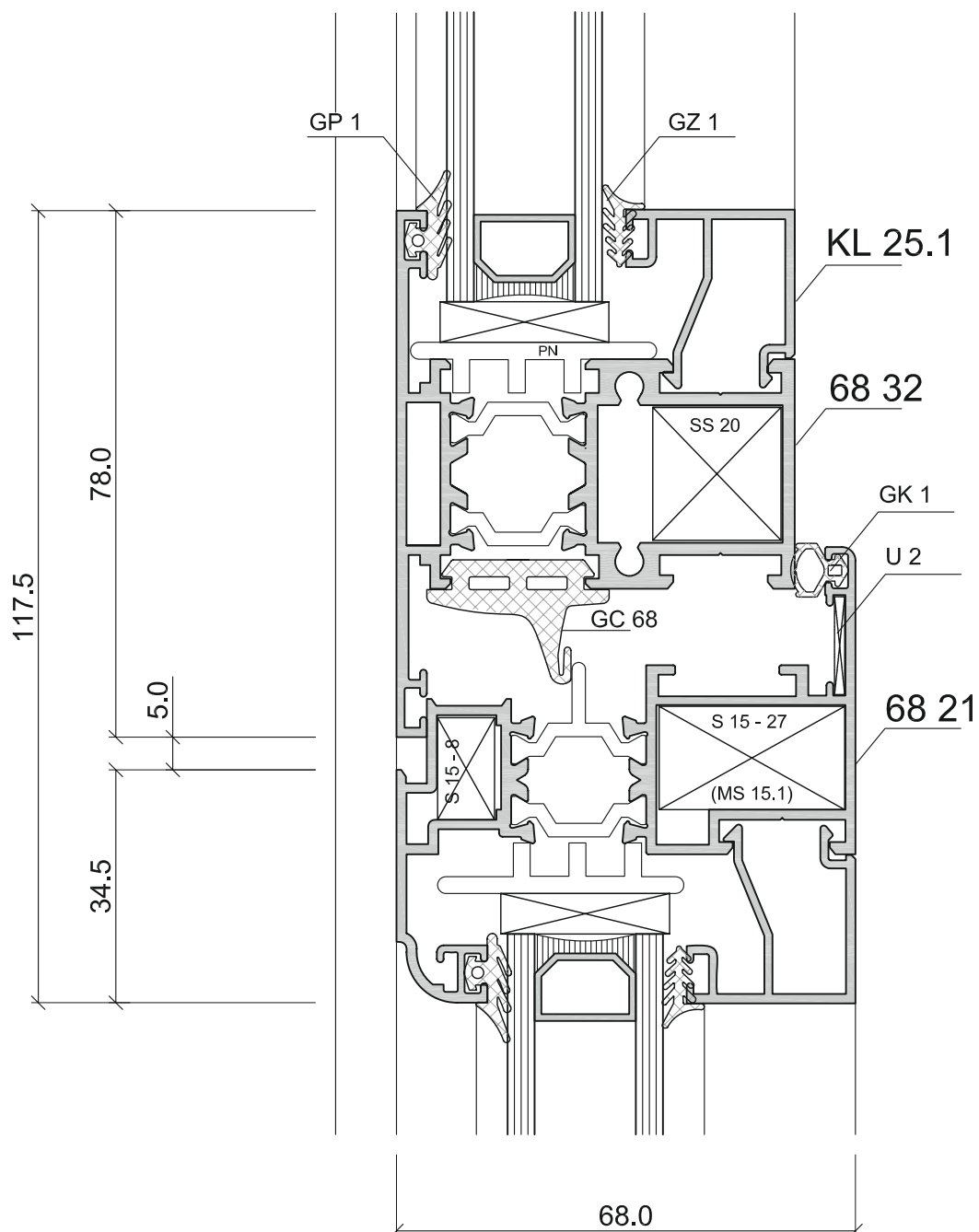
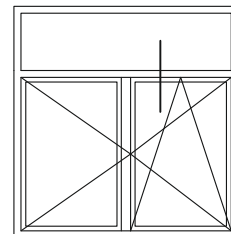
10



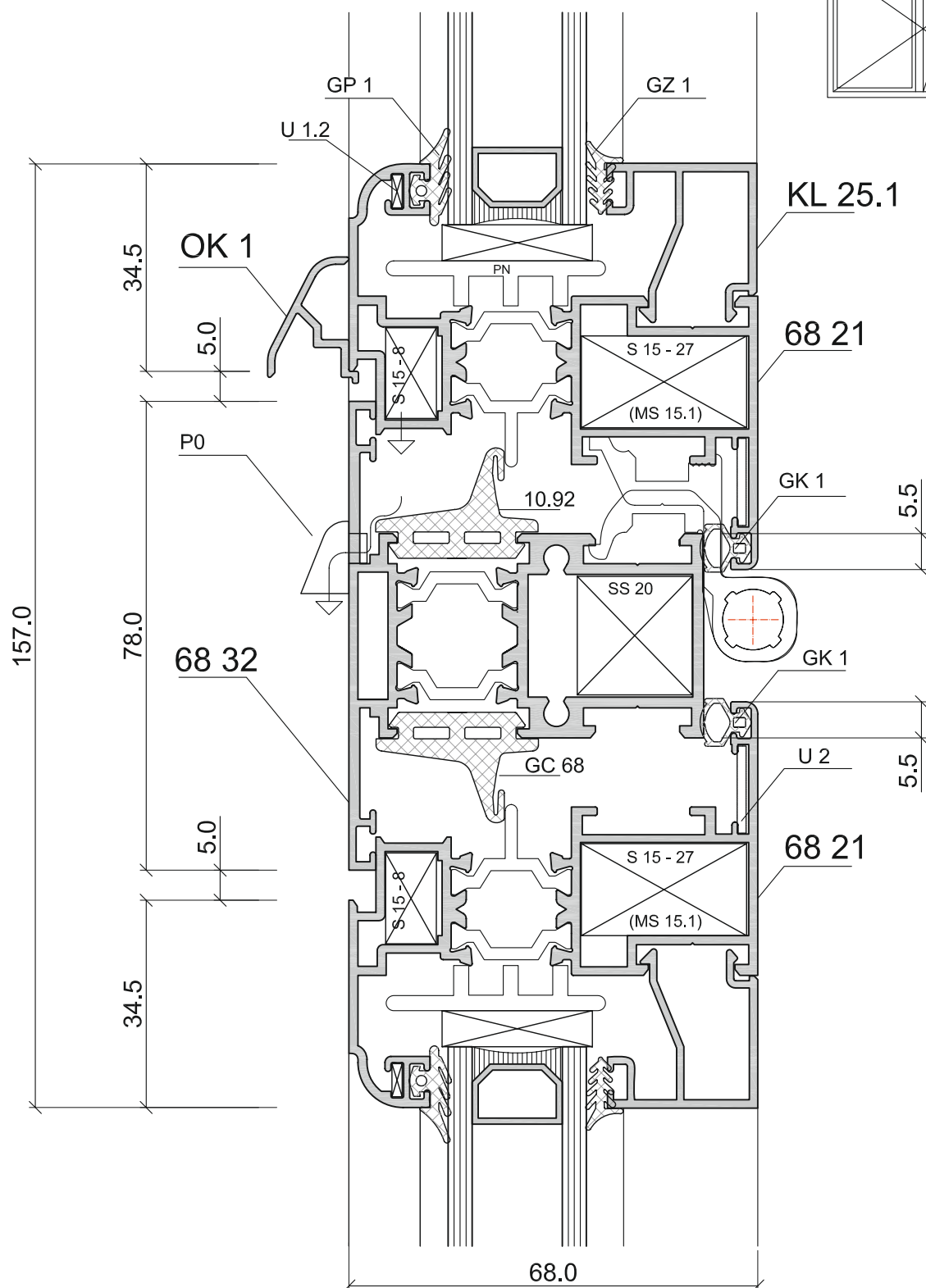
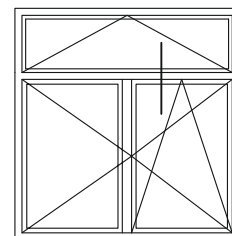
ALT
68

D

11



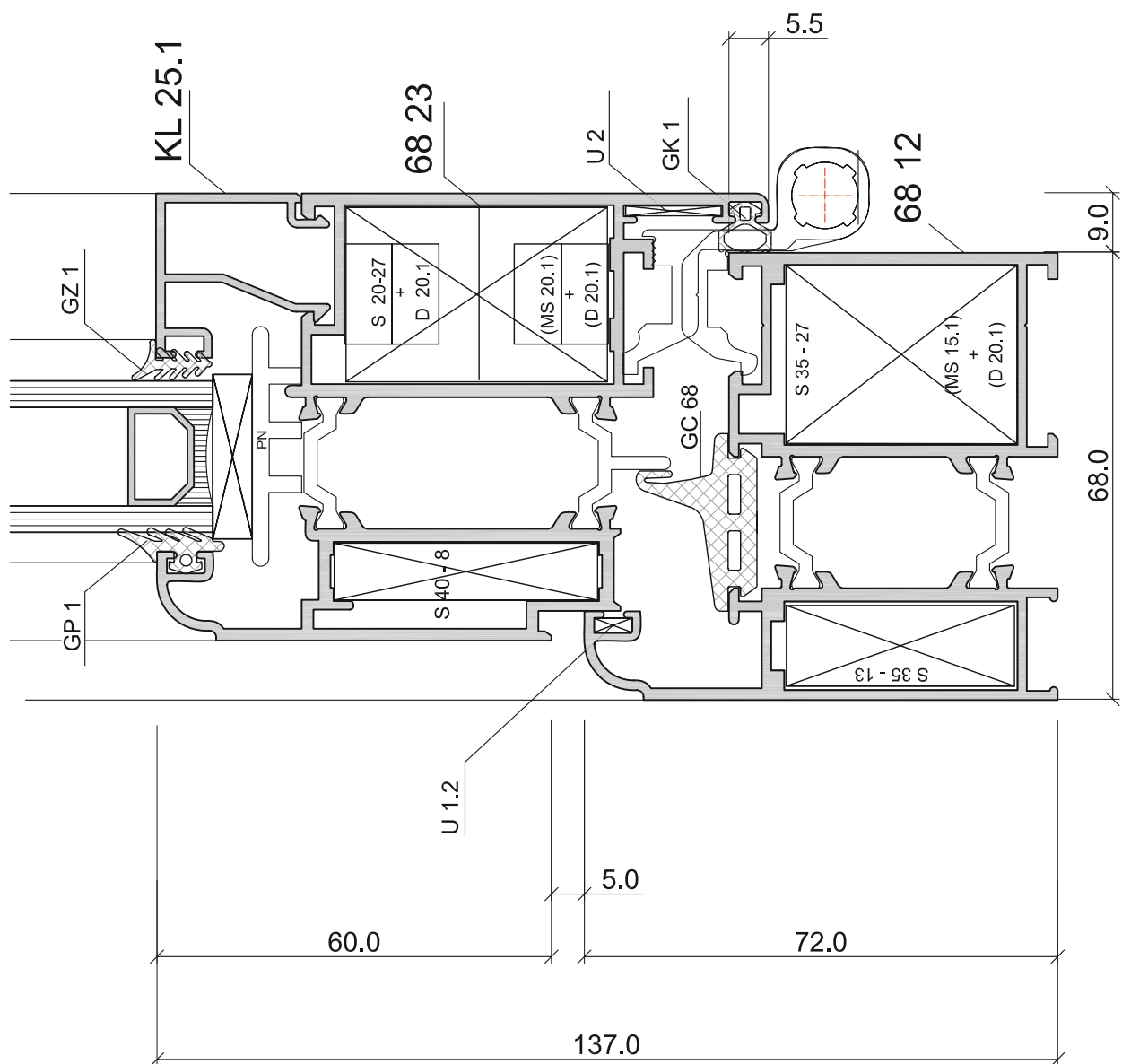
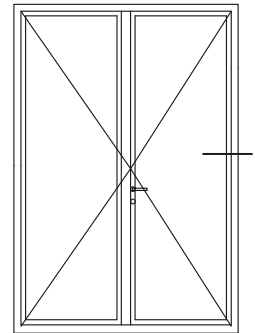
12



ALT
68

D

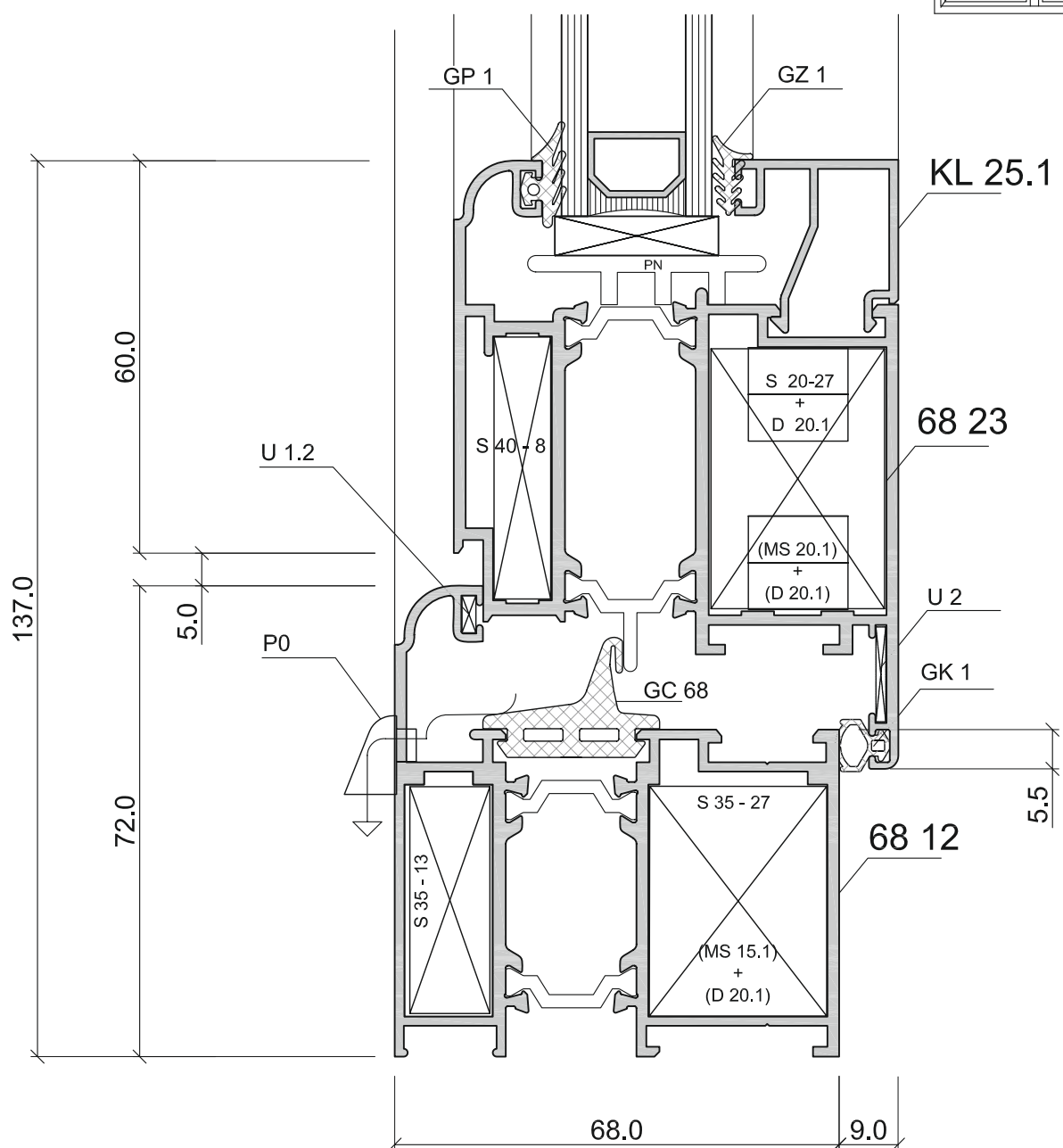
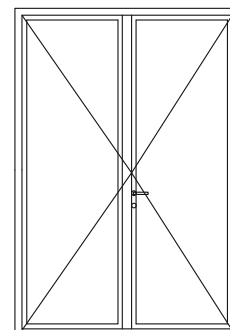
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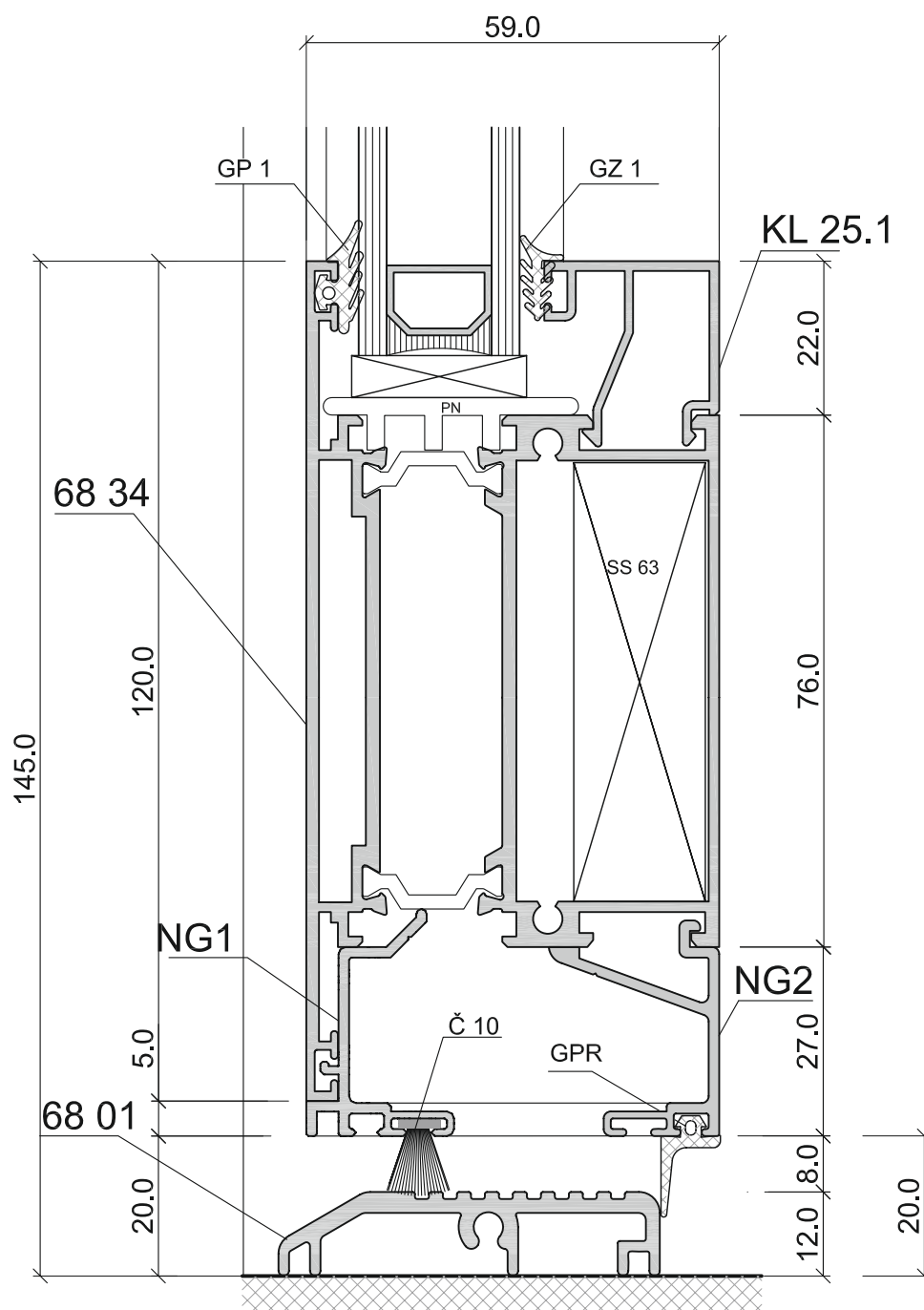
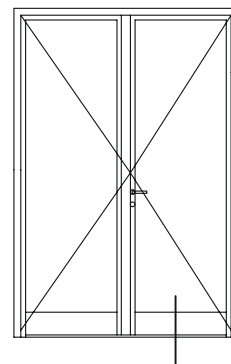
ALT
68

D

14



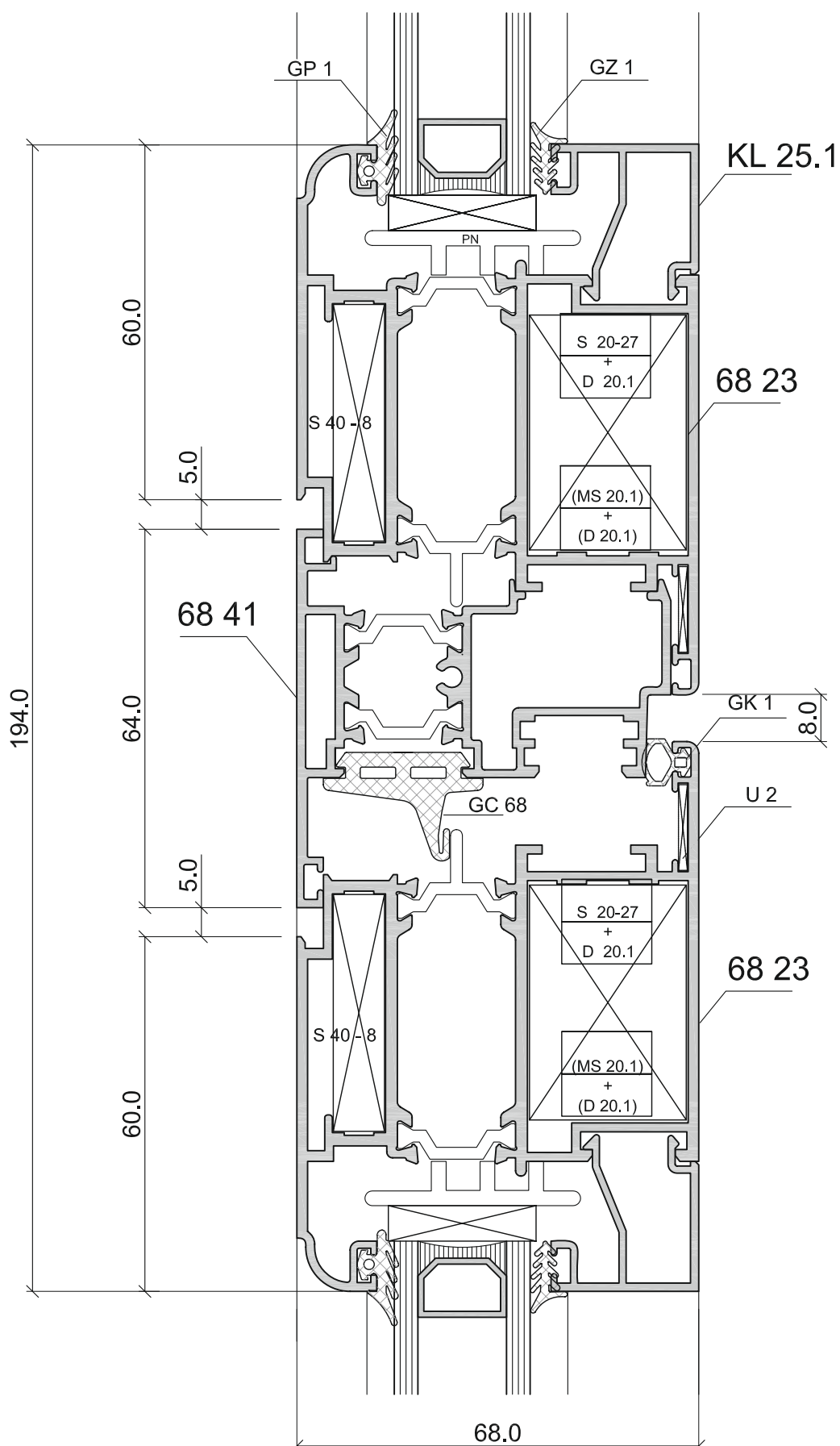
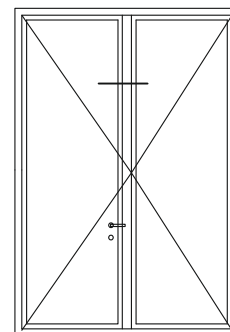
ALT	D	15
68		



ALT
68

D

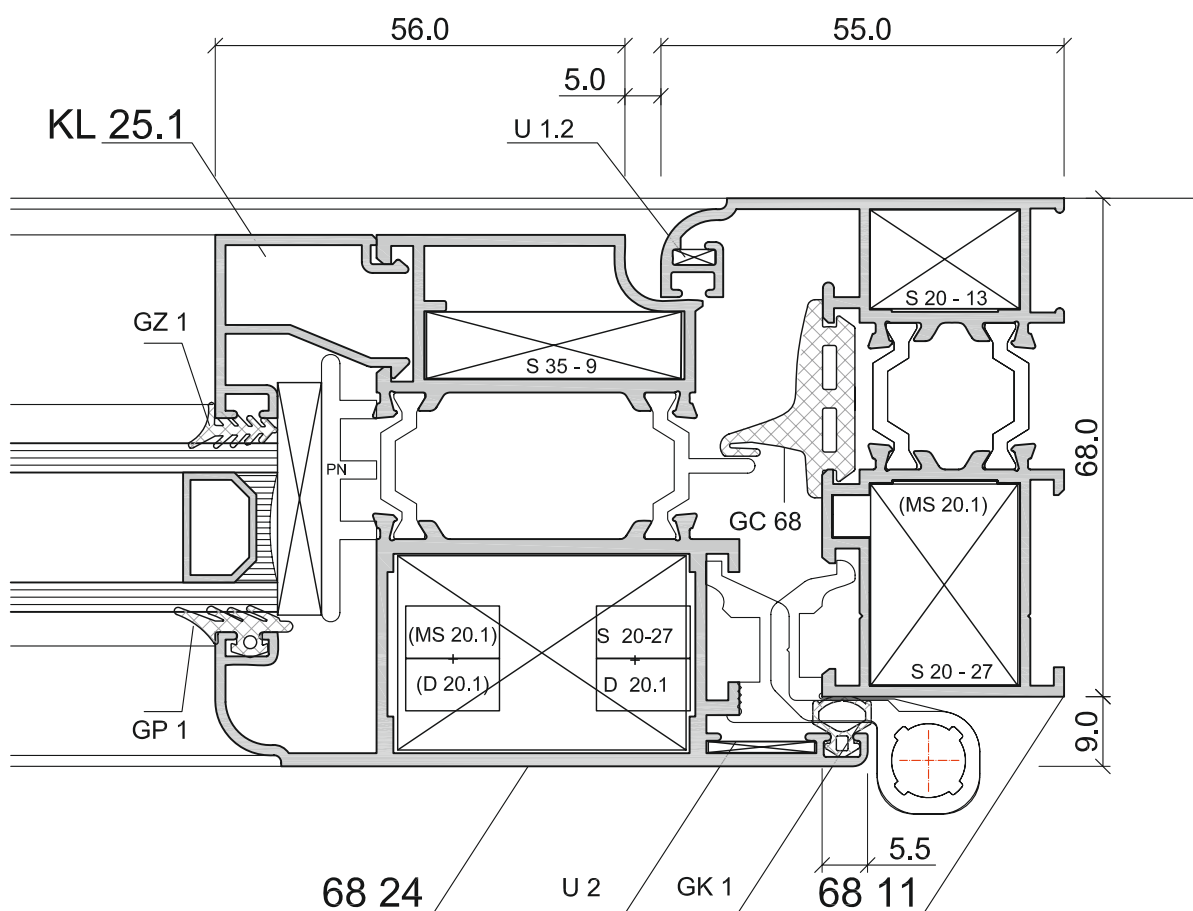
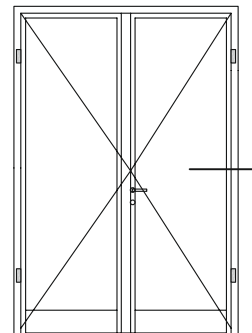
16



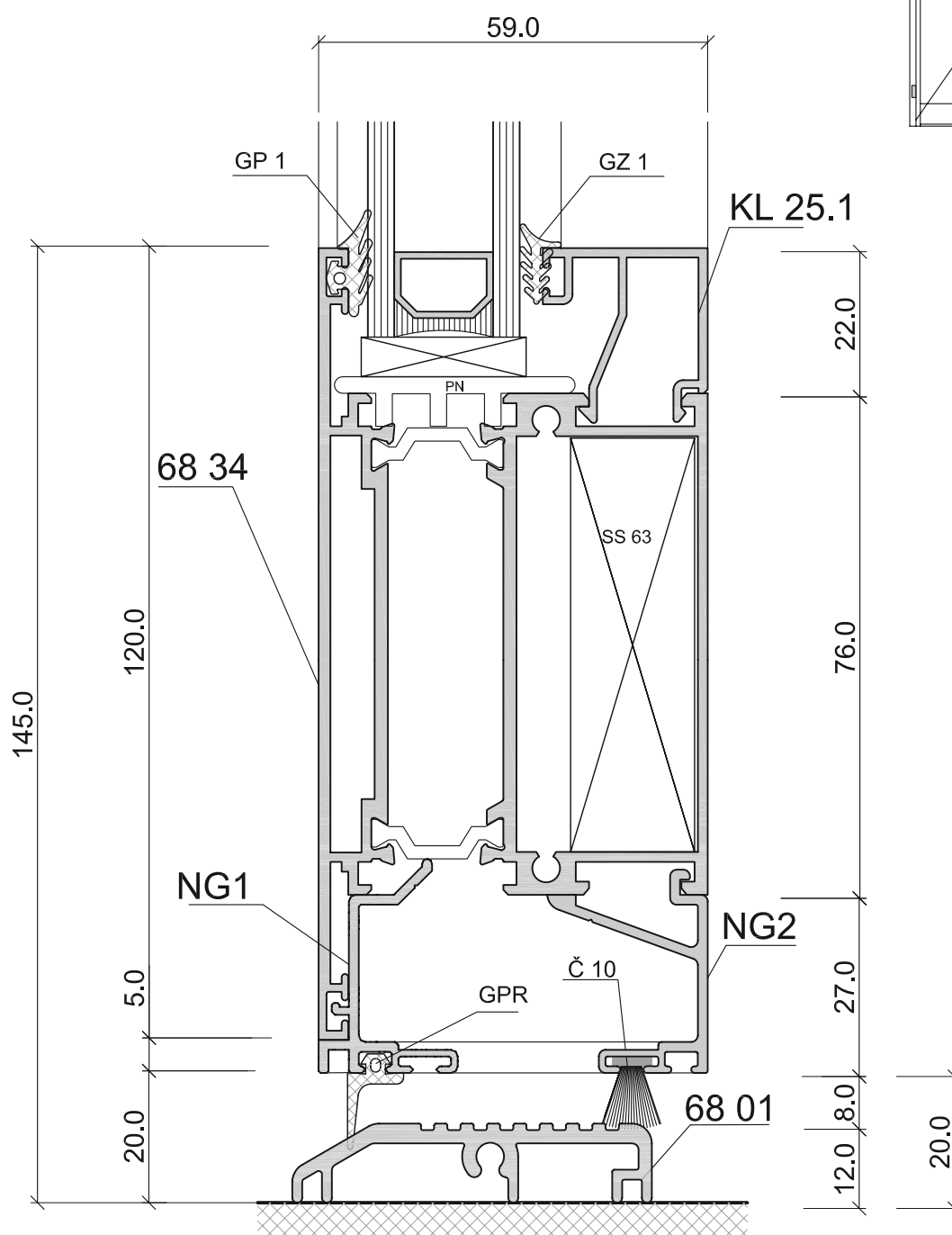
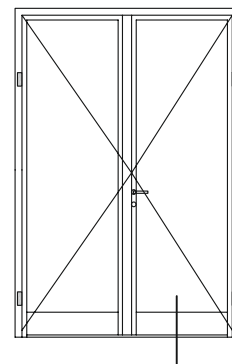
ALT
68

D

17



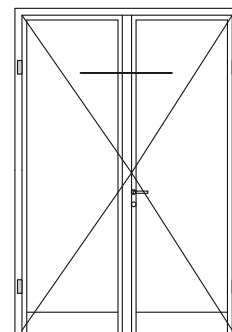
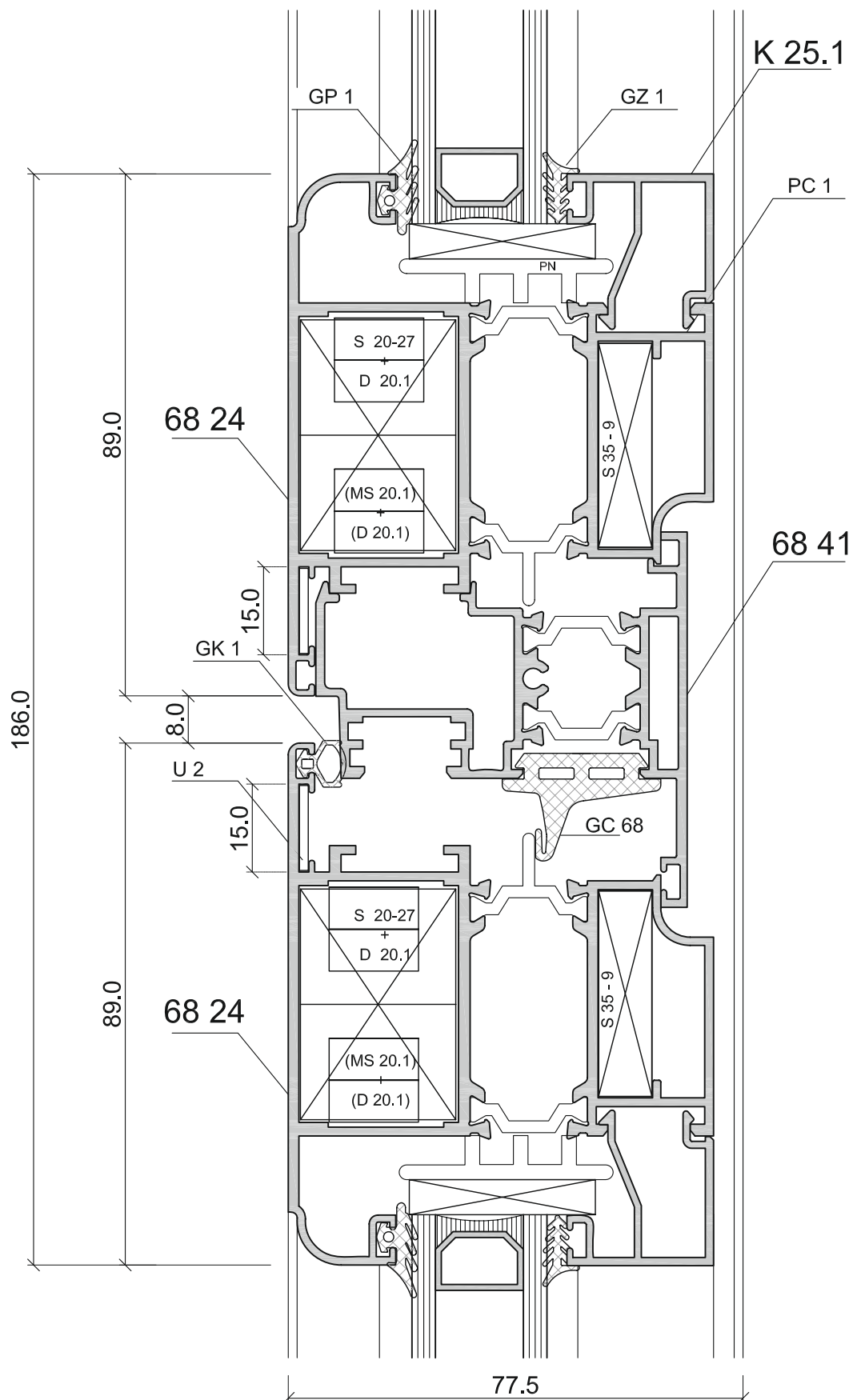
ALT 68	D	18
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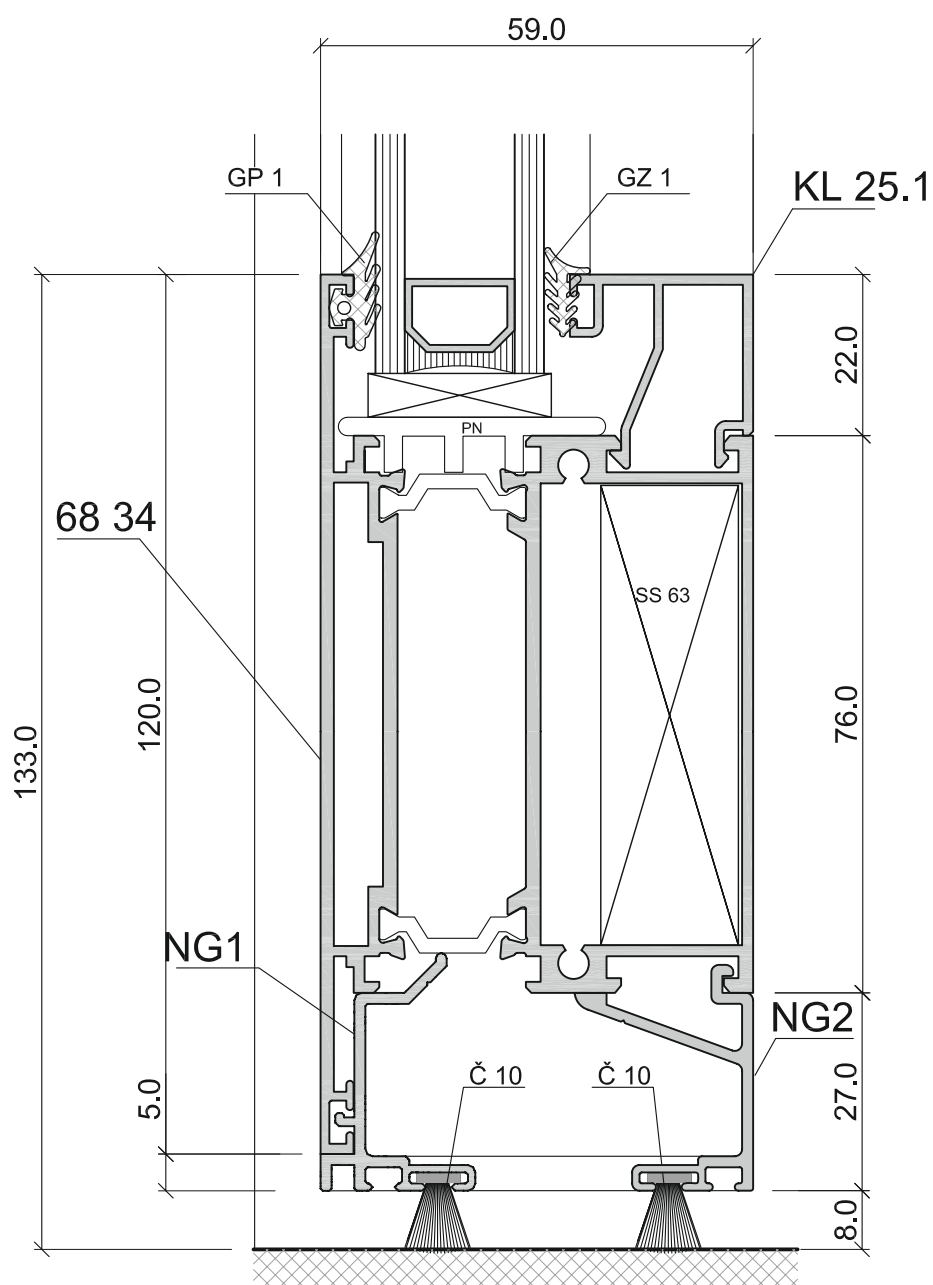
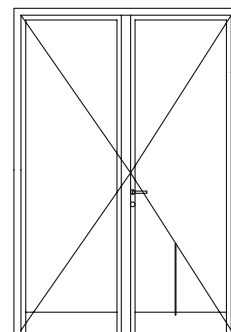
ALT
68

D

19



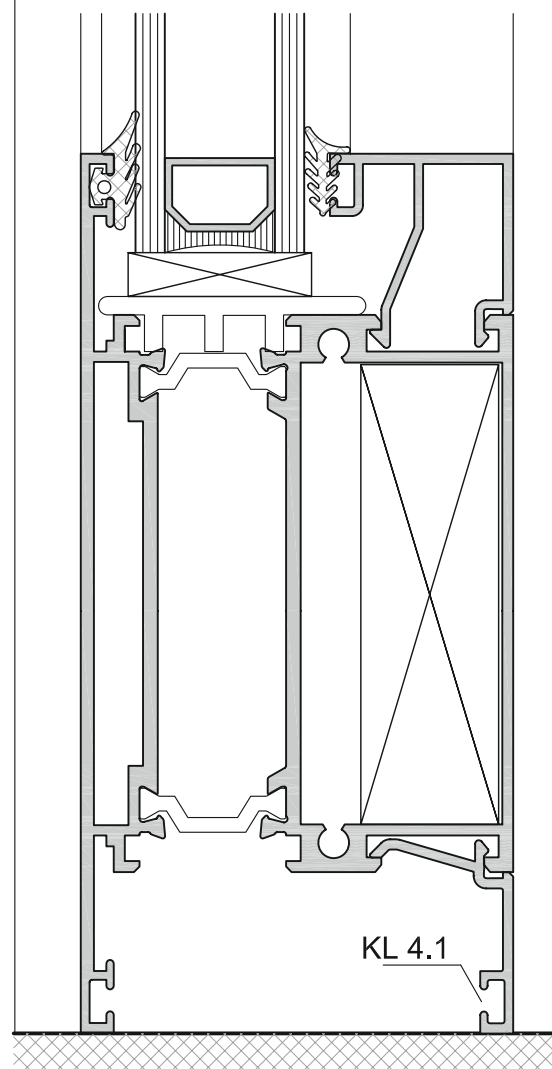
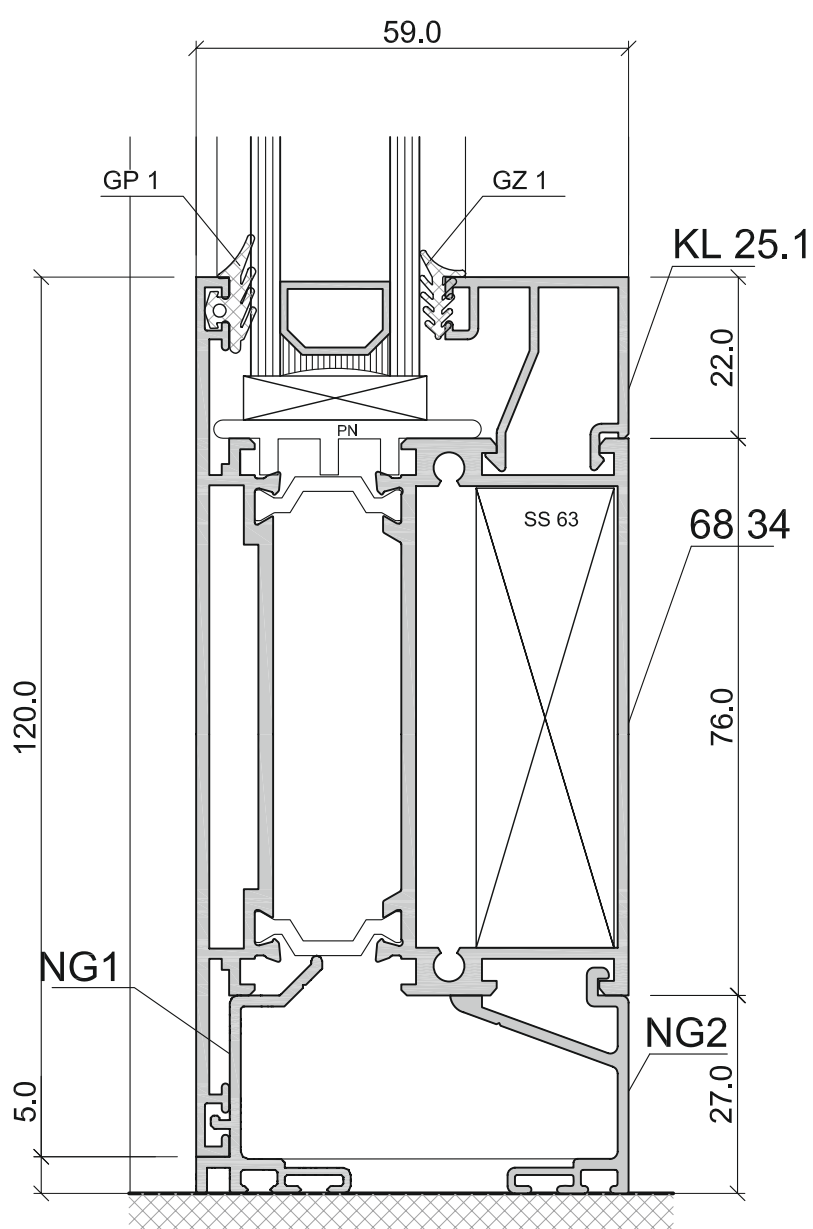
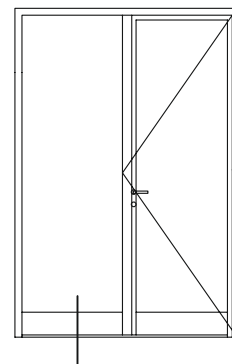
ALT 68	D	20
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ALT
68

D

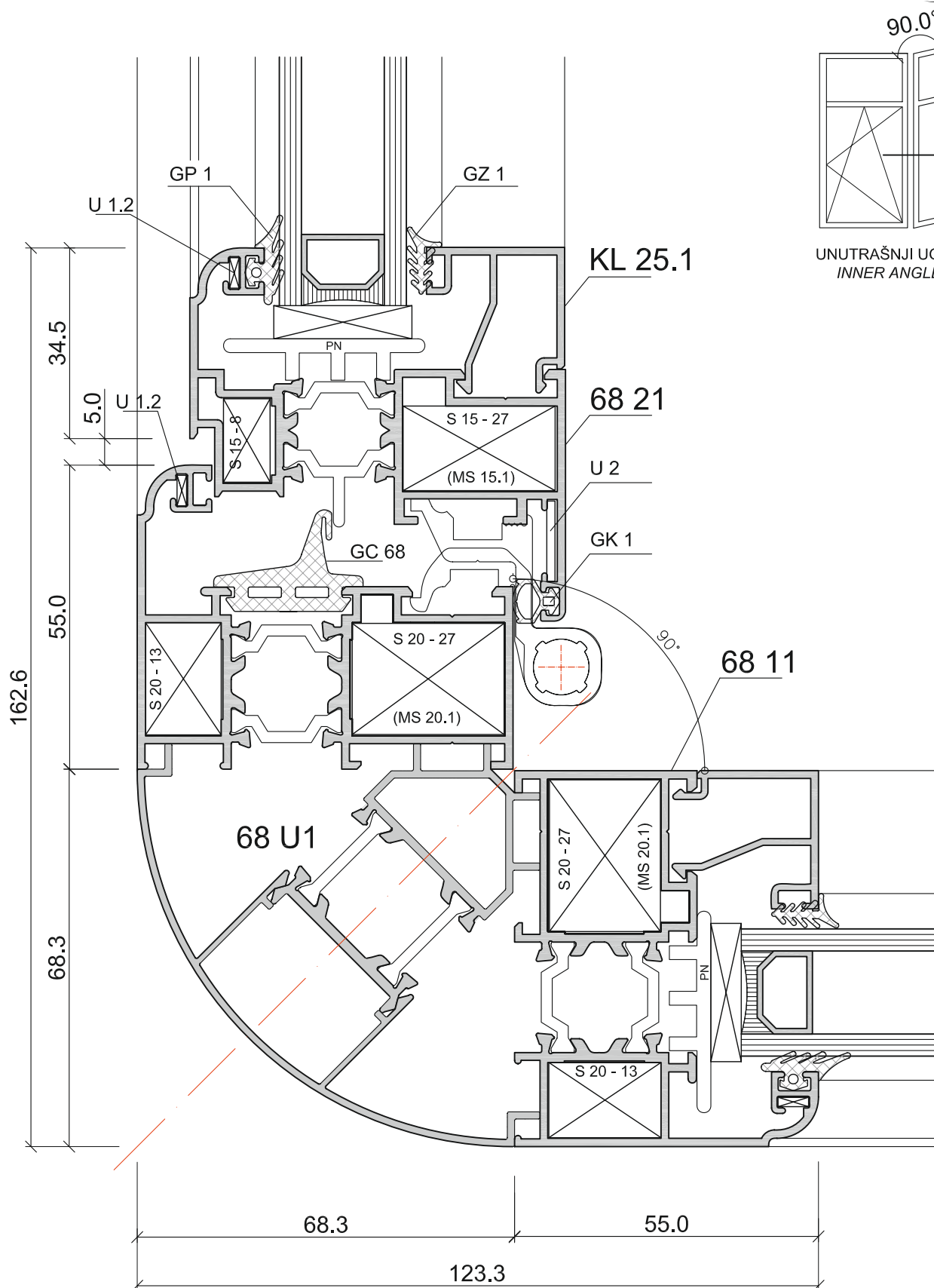
21

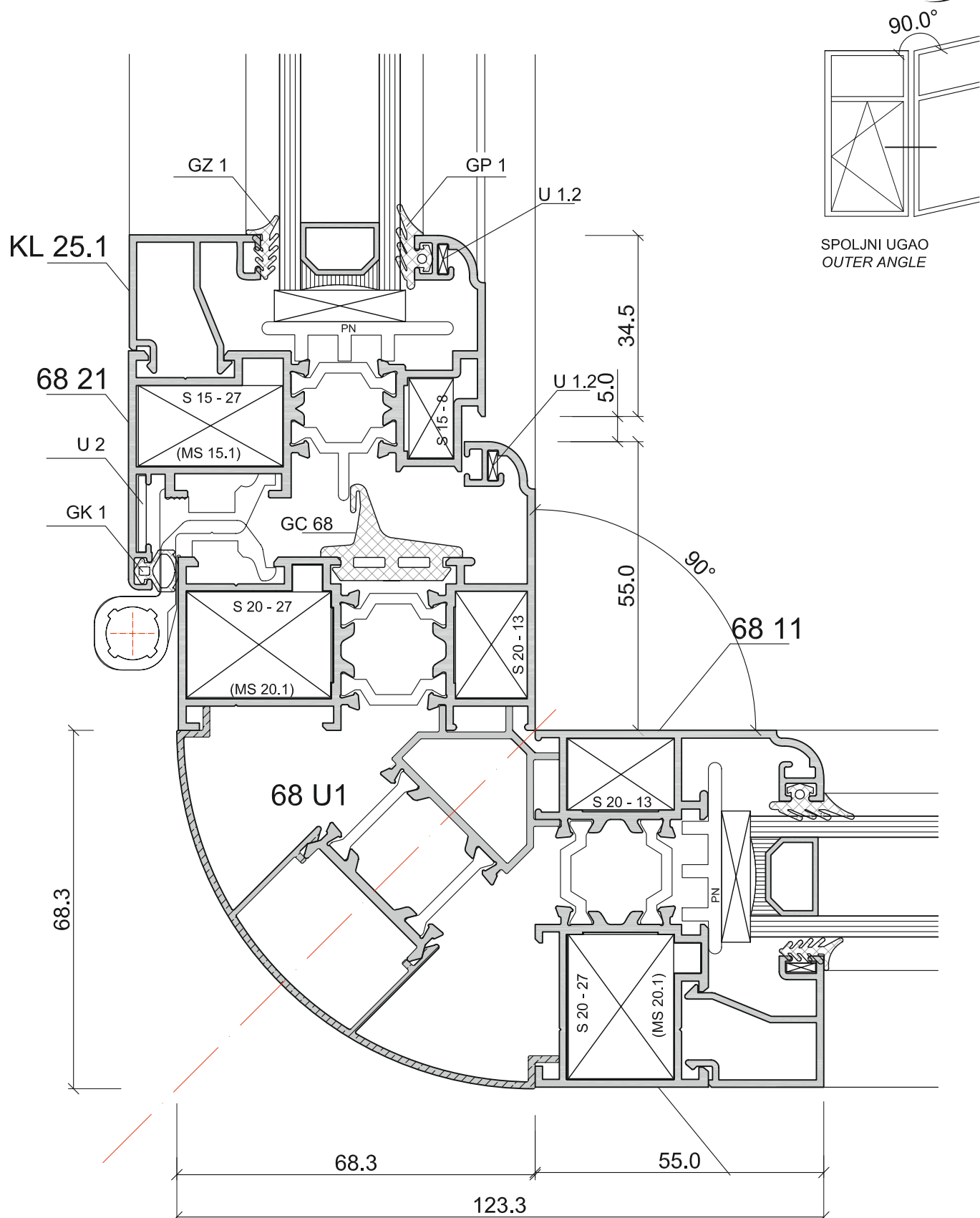


ALT
68

D

22





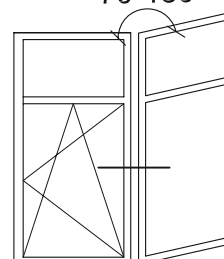
ALT
68

D

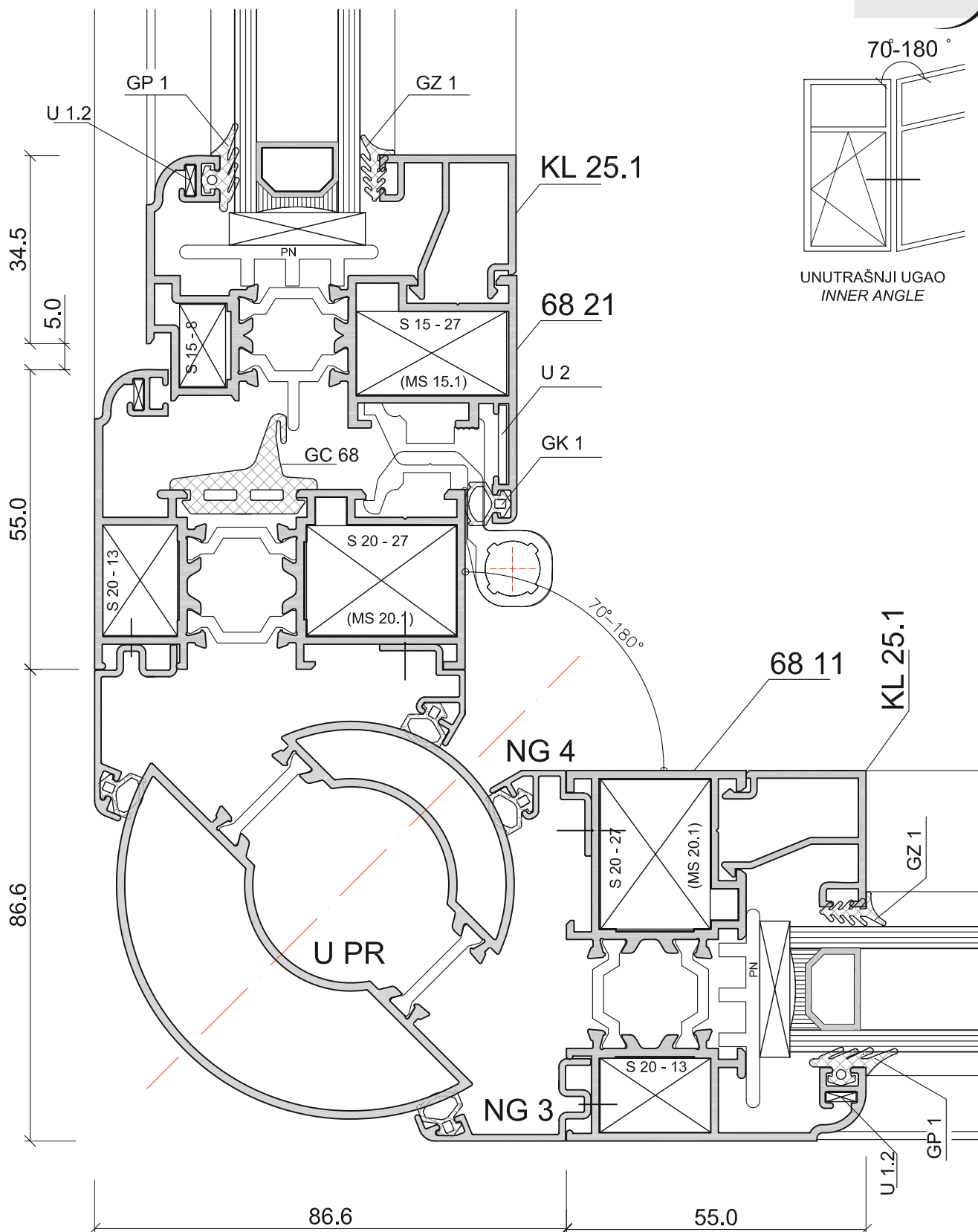
24



70°-180°



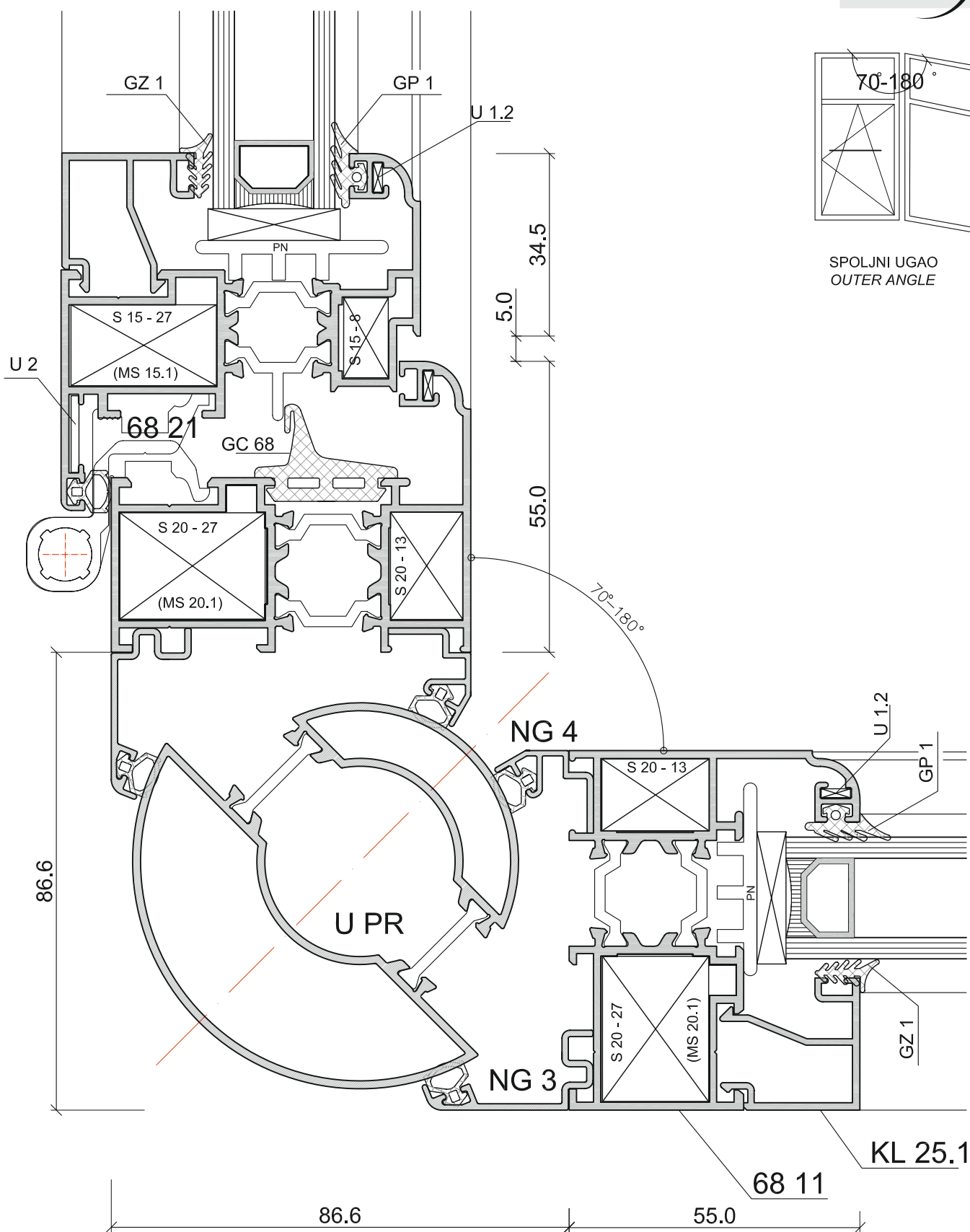
UNUTRAŠNJI UGAO
INNER ANGLE



ALT
68

D

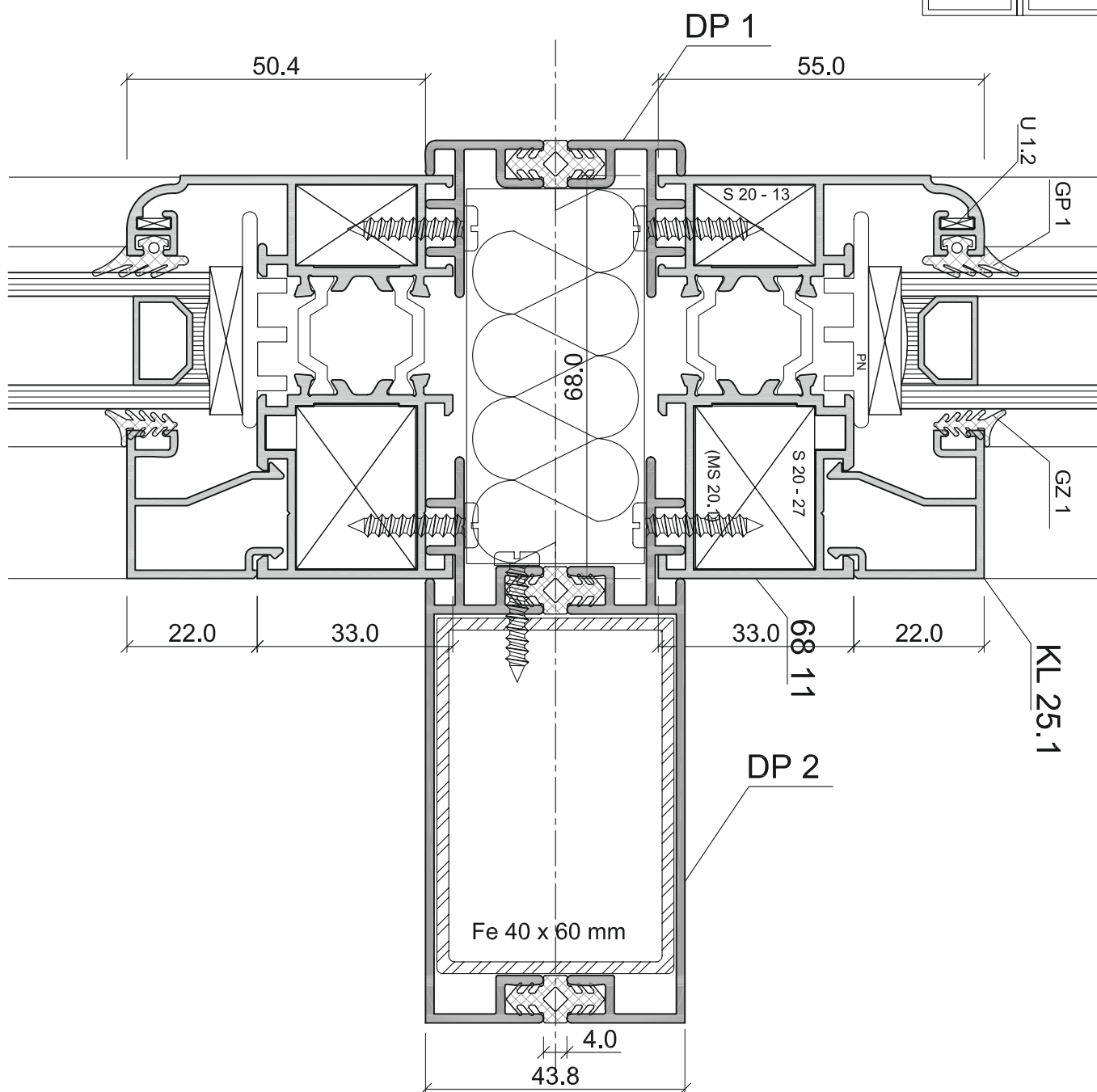
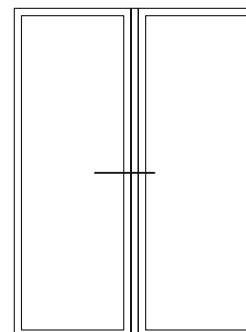
25



ALT
68

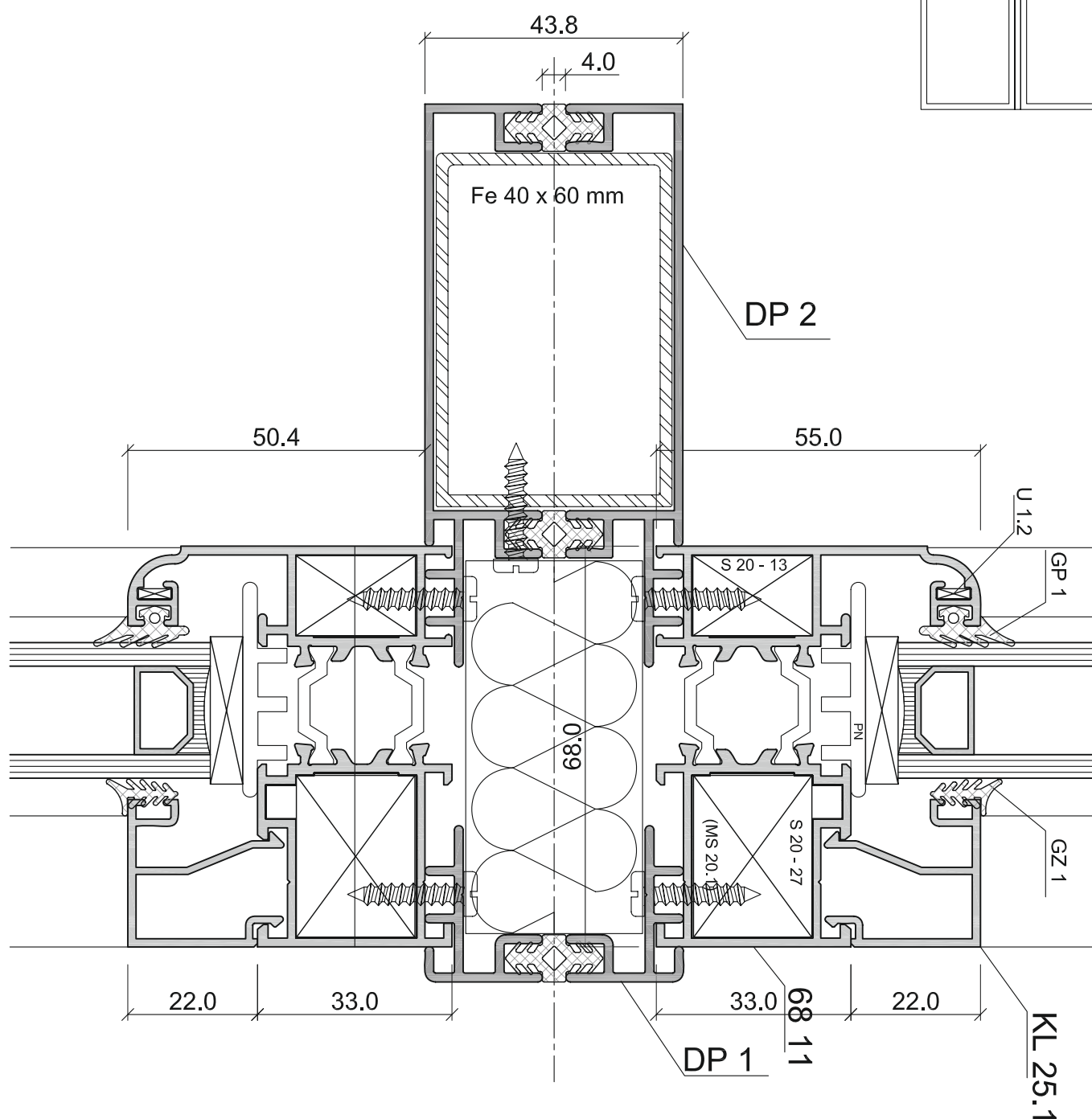
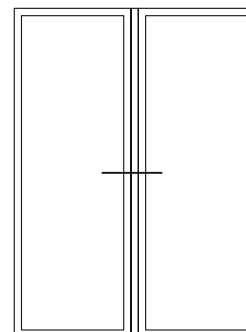
D

26



moguća primena sa / possibility of application with
68 11 , 68 12 , 68 13 , 68 14

ALT	D	27
68		

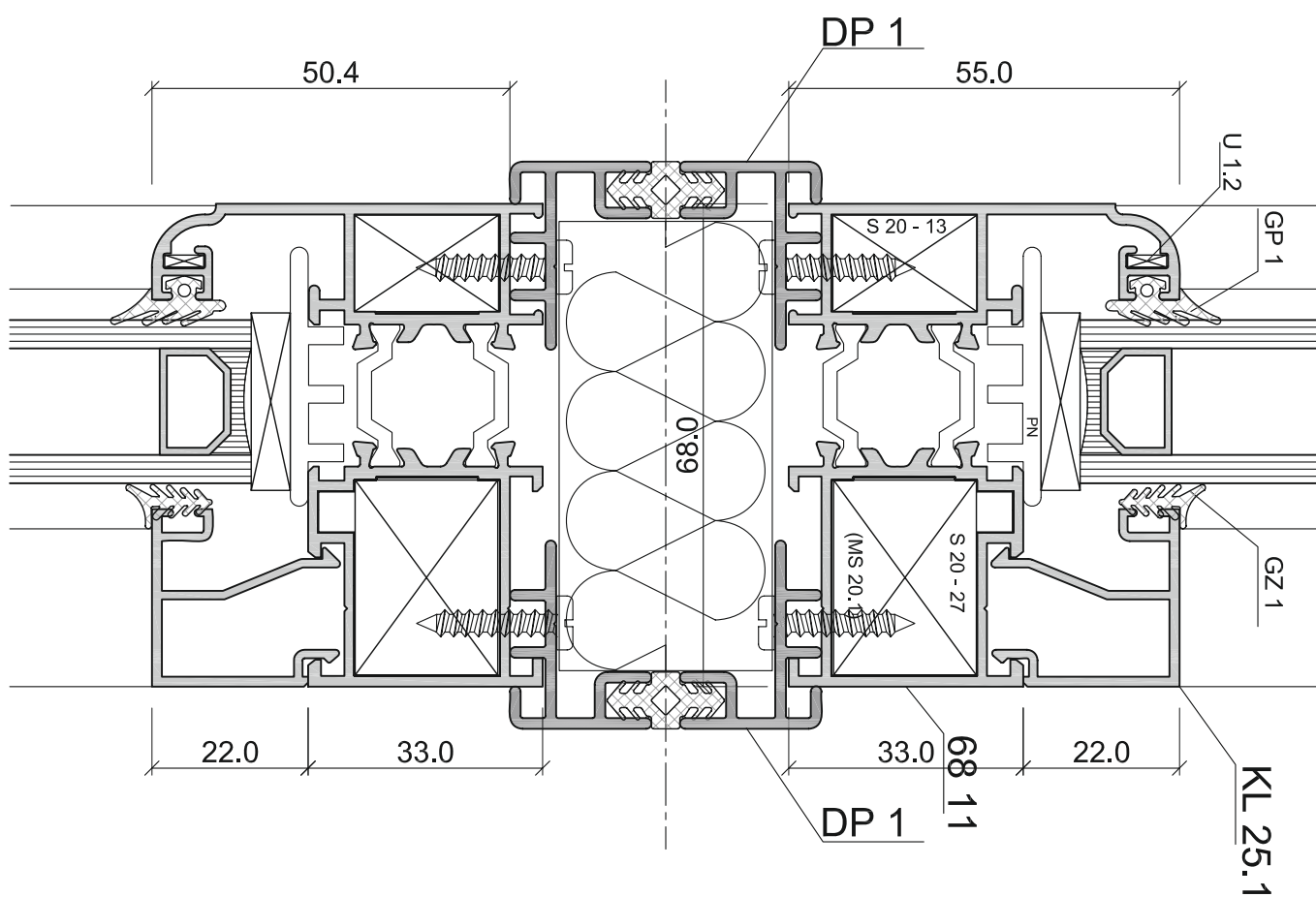
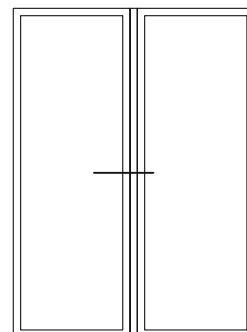


moгућа primena sa / possibility of application with
68 11 , 68 12 , 68 13 , 68 14

ALT
68

D

28

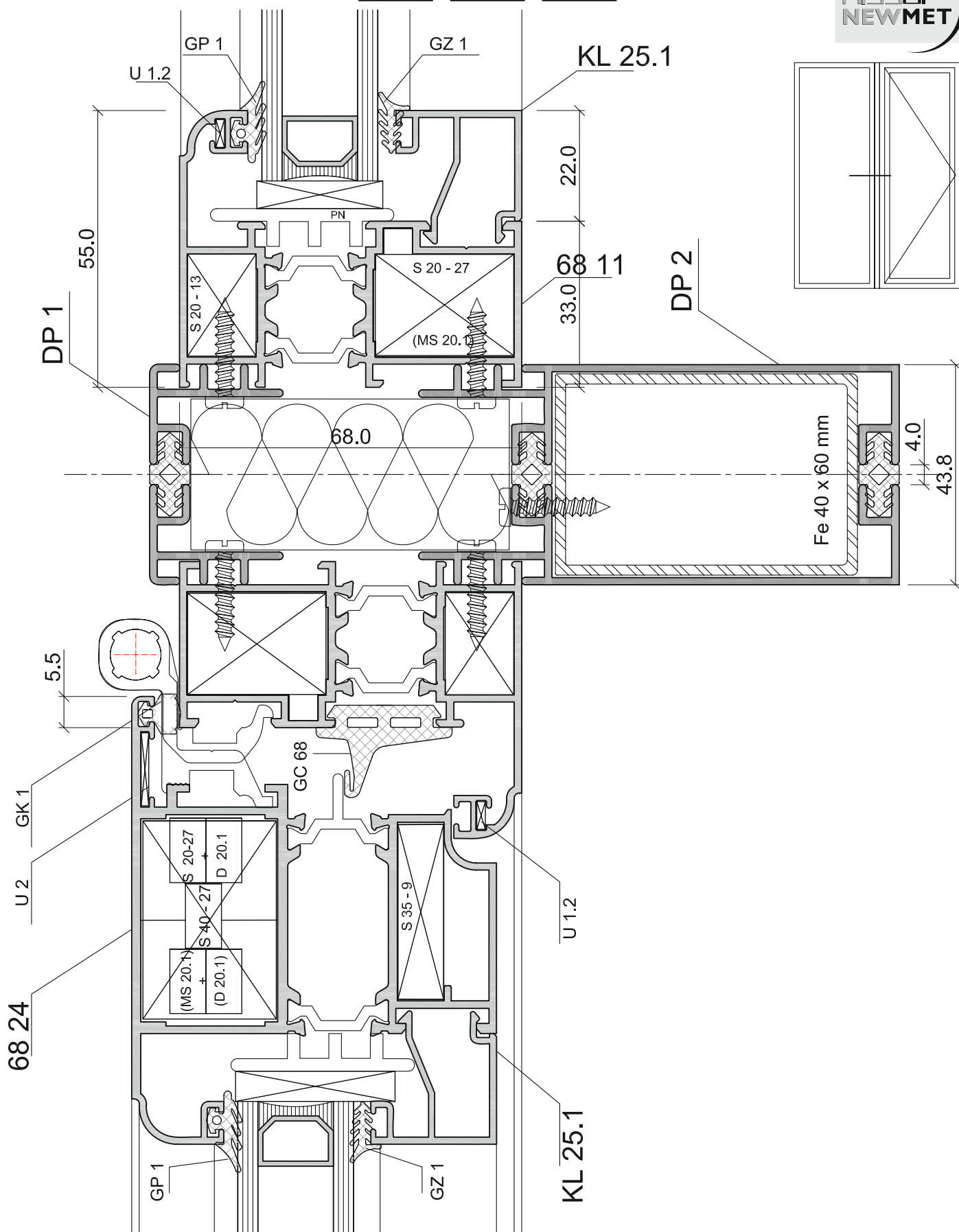


moгућа primena sa / possibility of application with
68 11 , 68 12 , 68 13 , 68 14

ALT
68

D

29

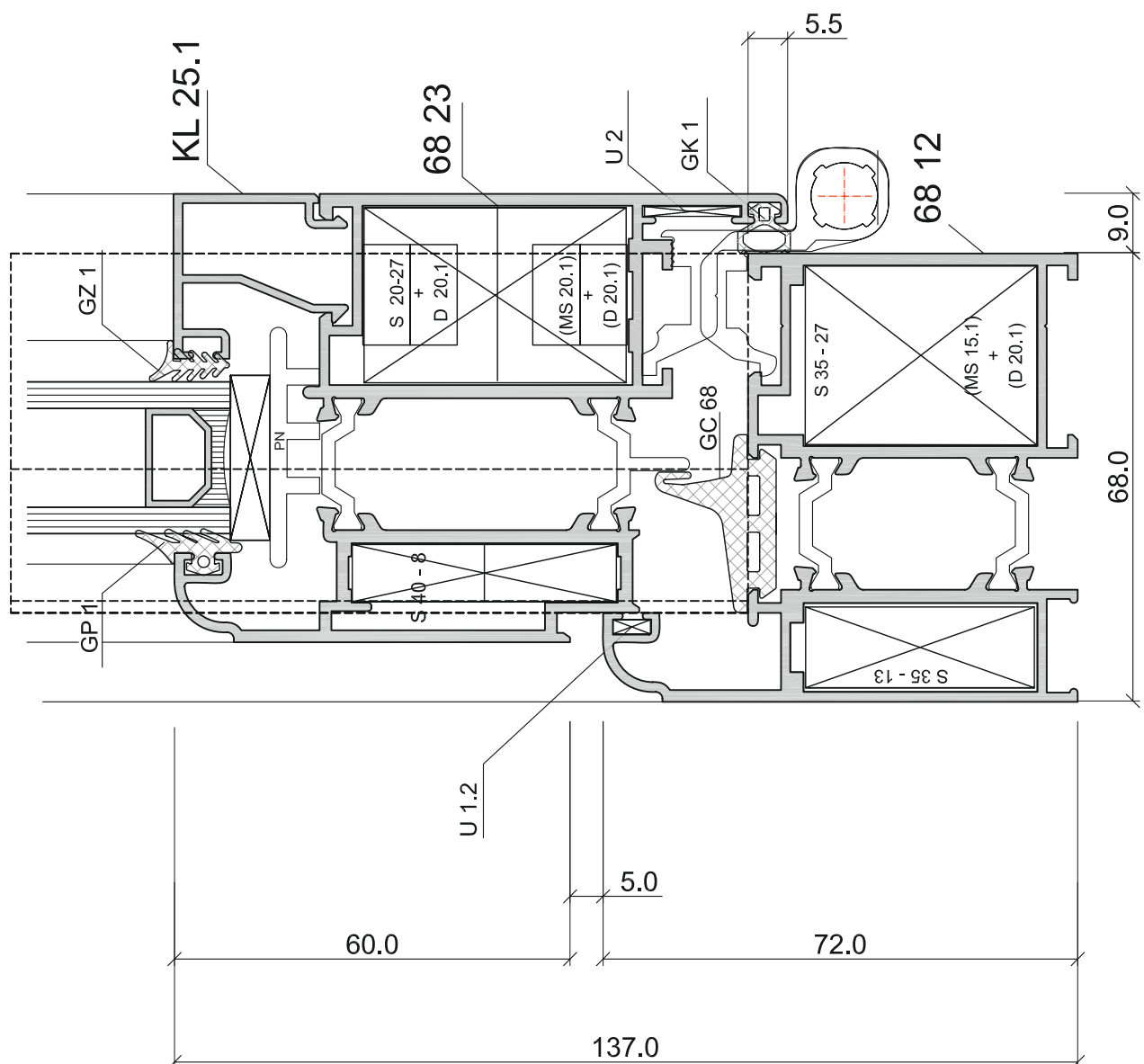
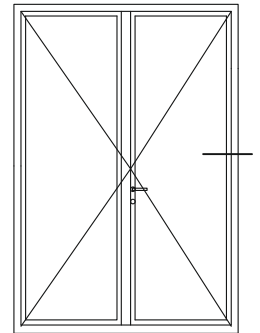


moгуća primena sa / possibility of application with
68 11 , 68 12 , 68 13 , 68 14

ALT
68

D

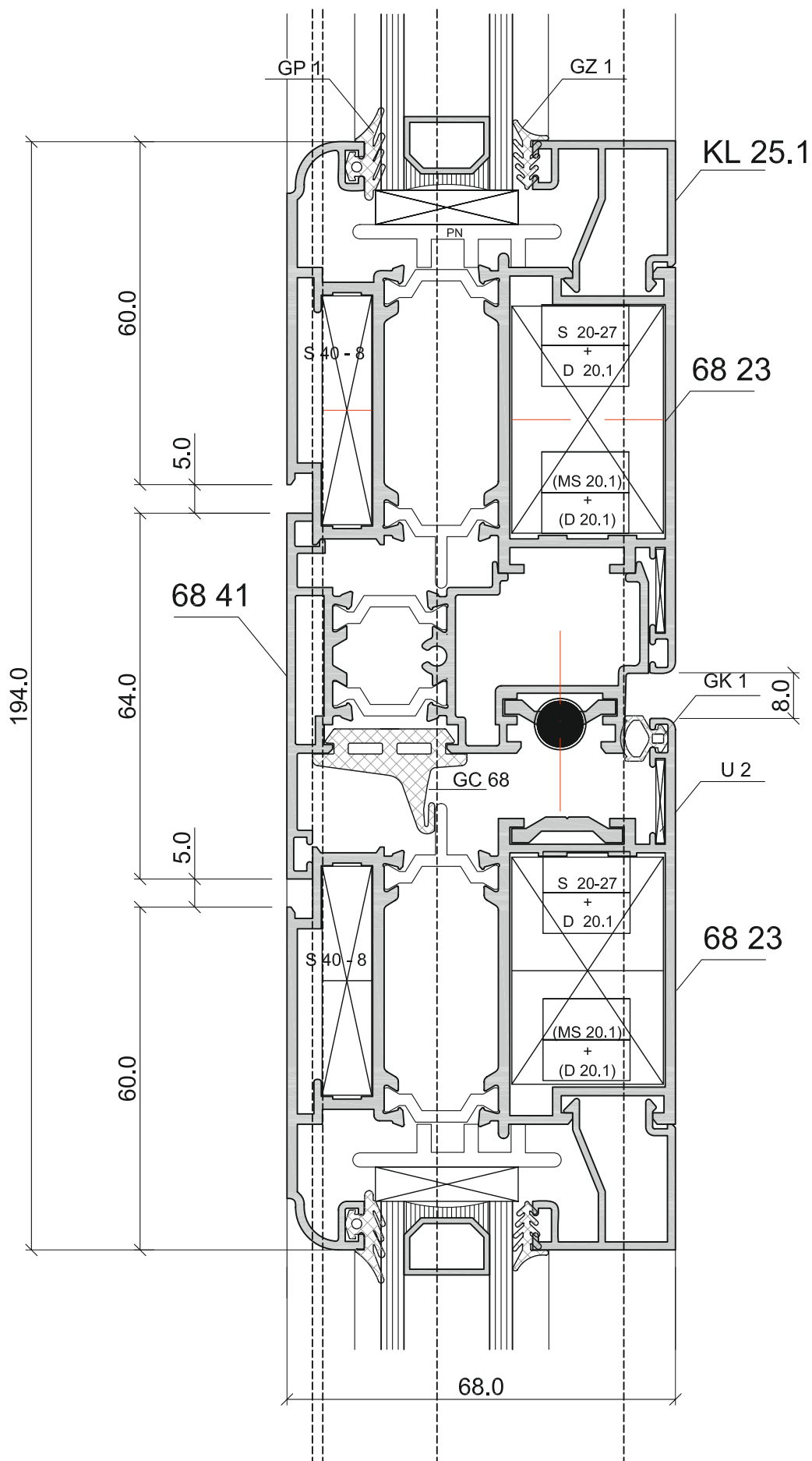
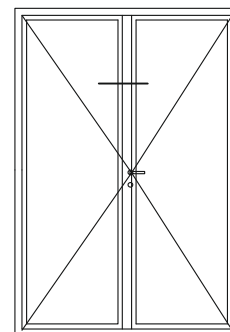
30



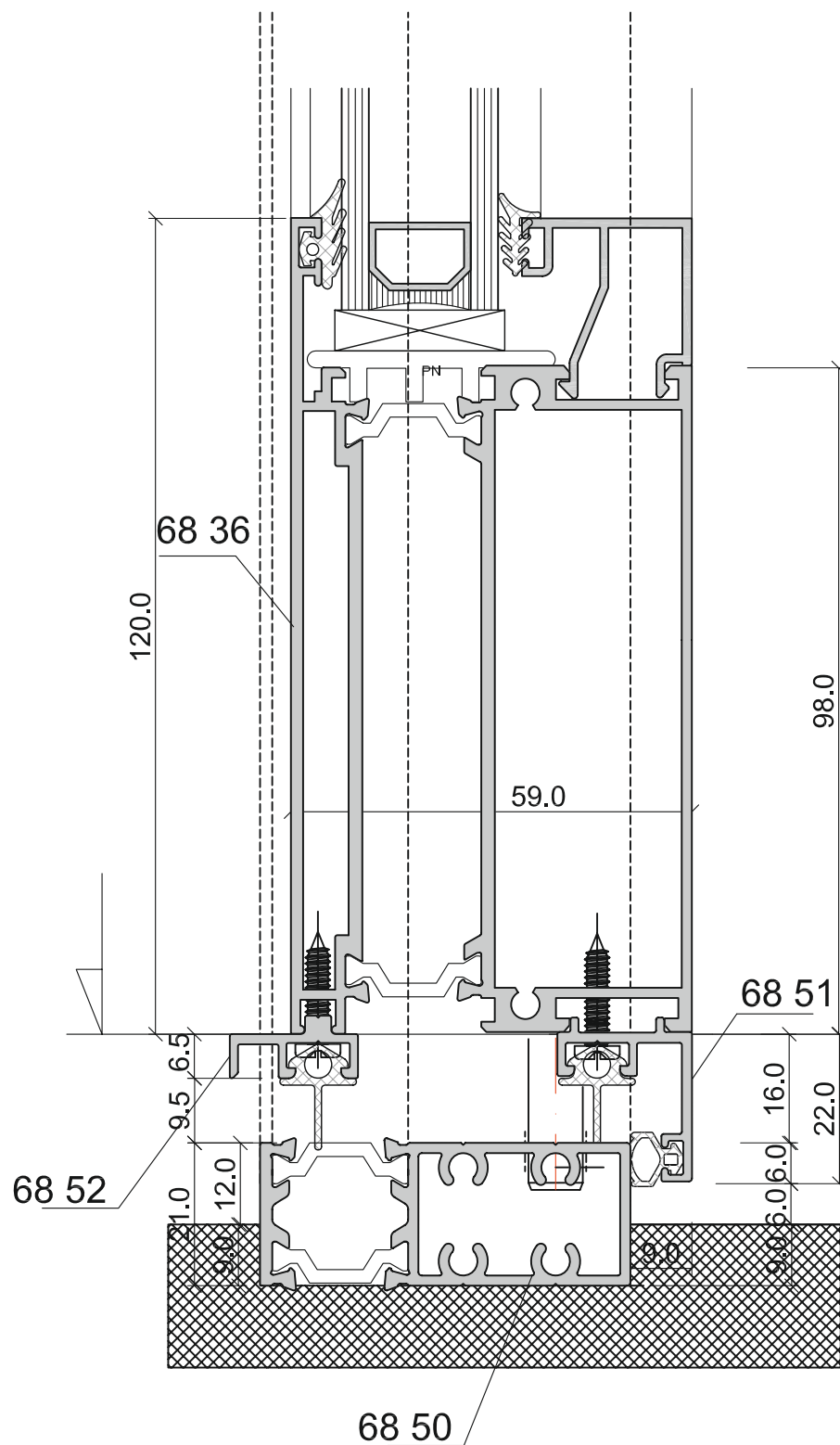
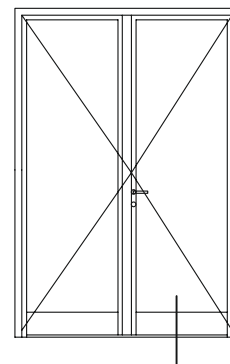
ALT
68

D

31



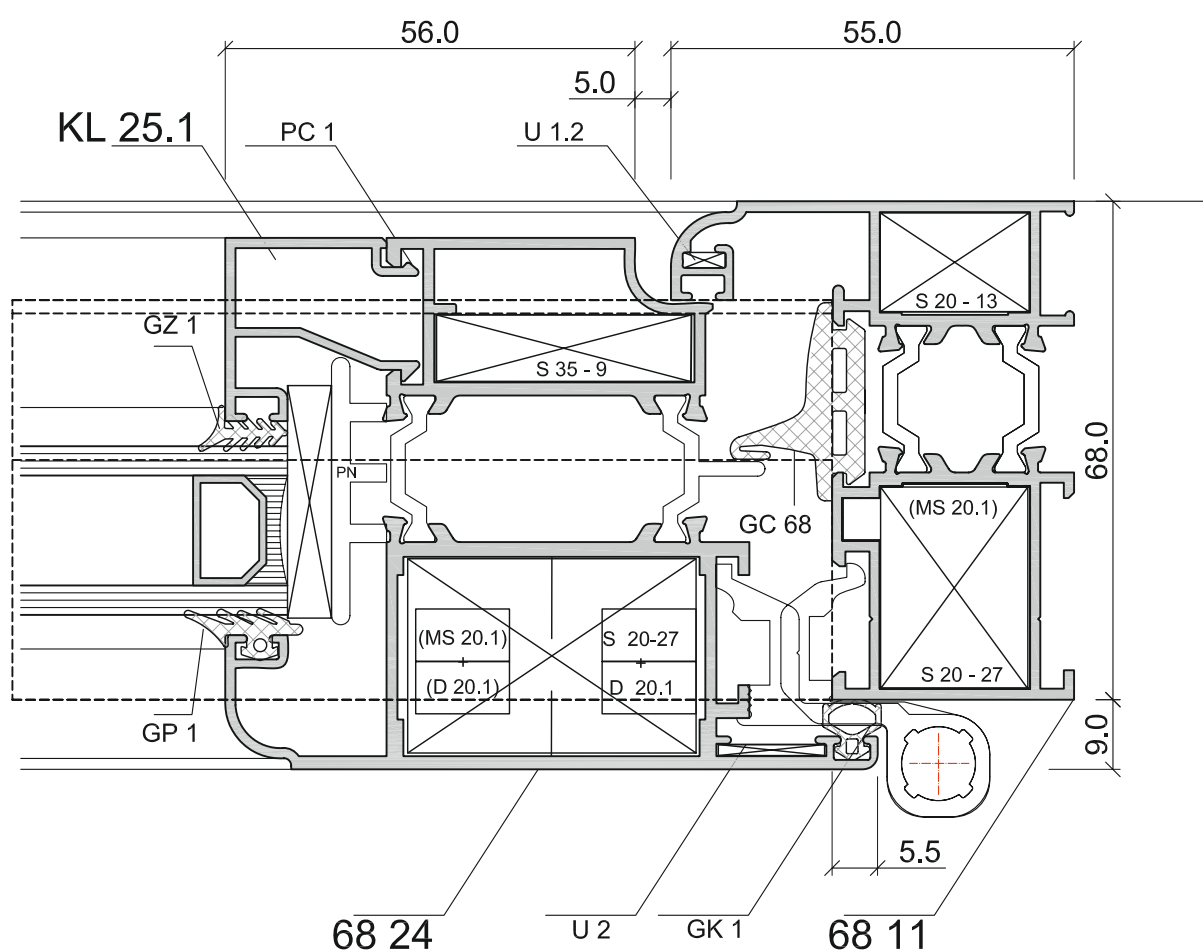
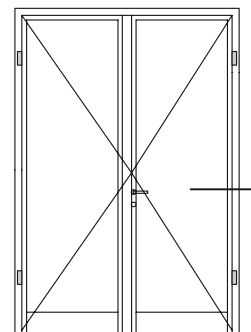
ALT	D	32
68		



ALT
68

D

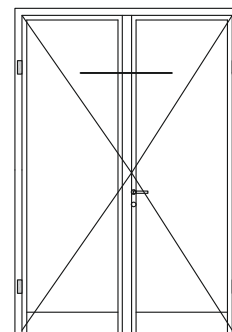
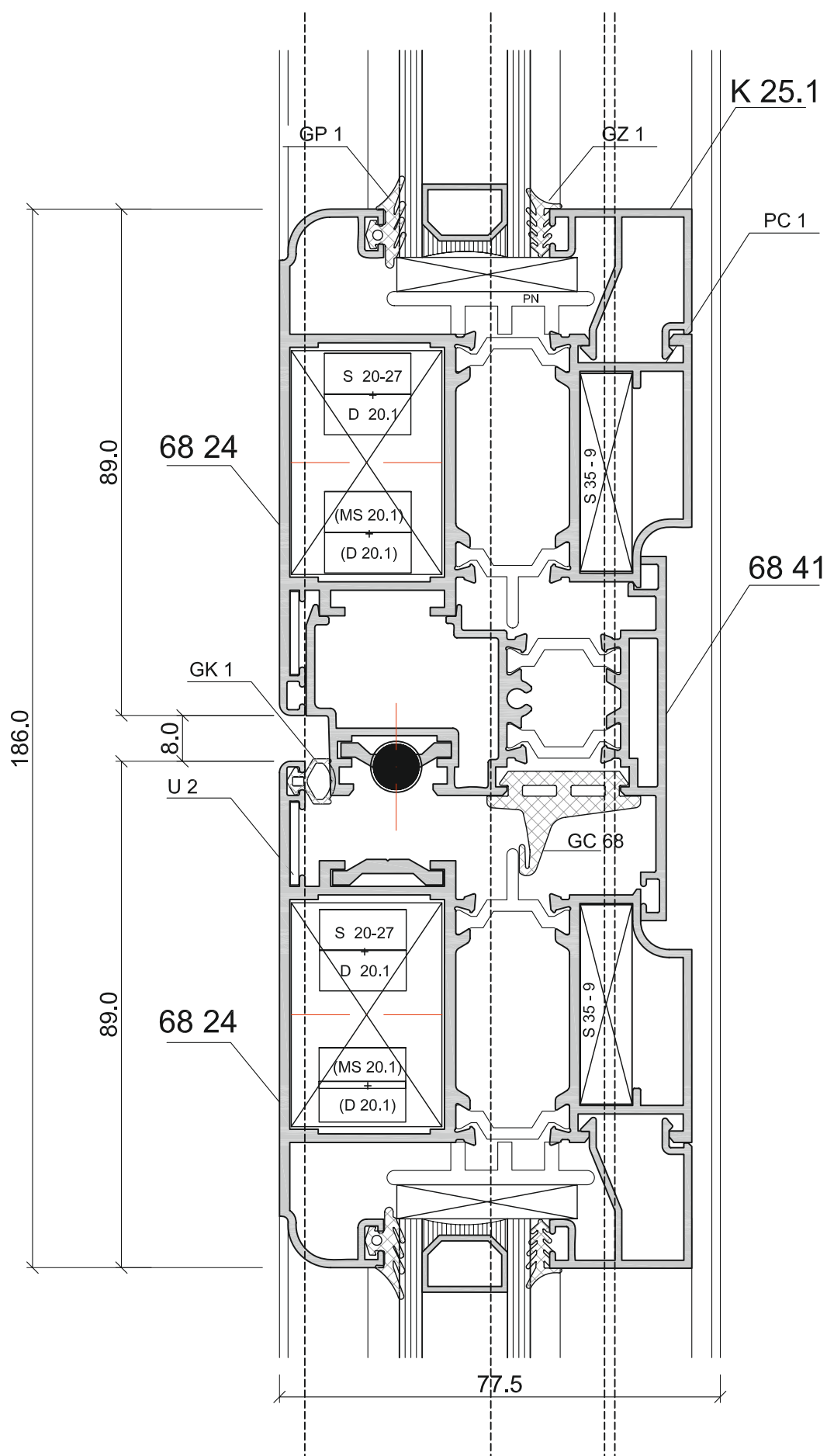
33



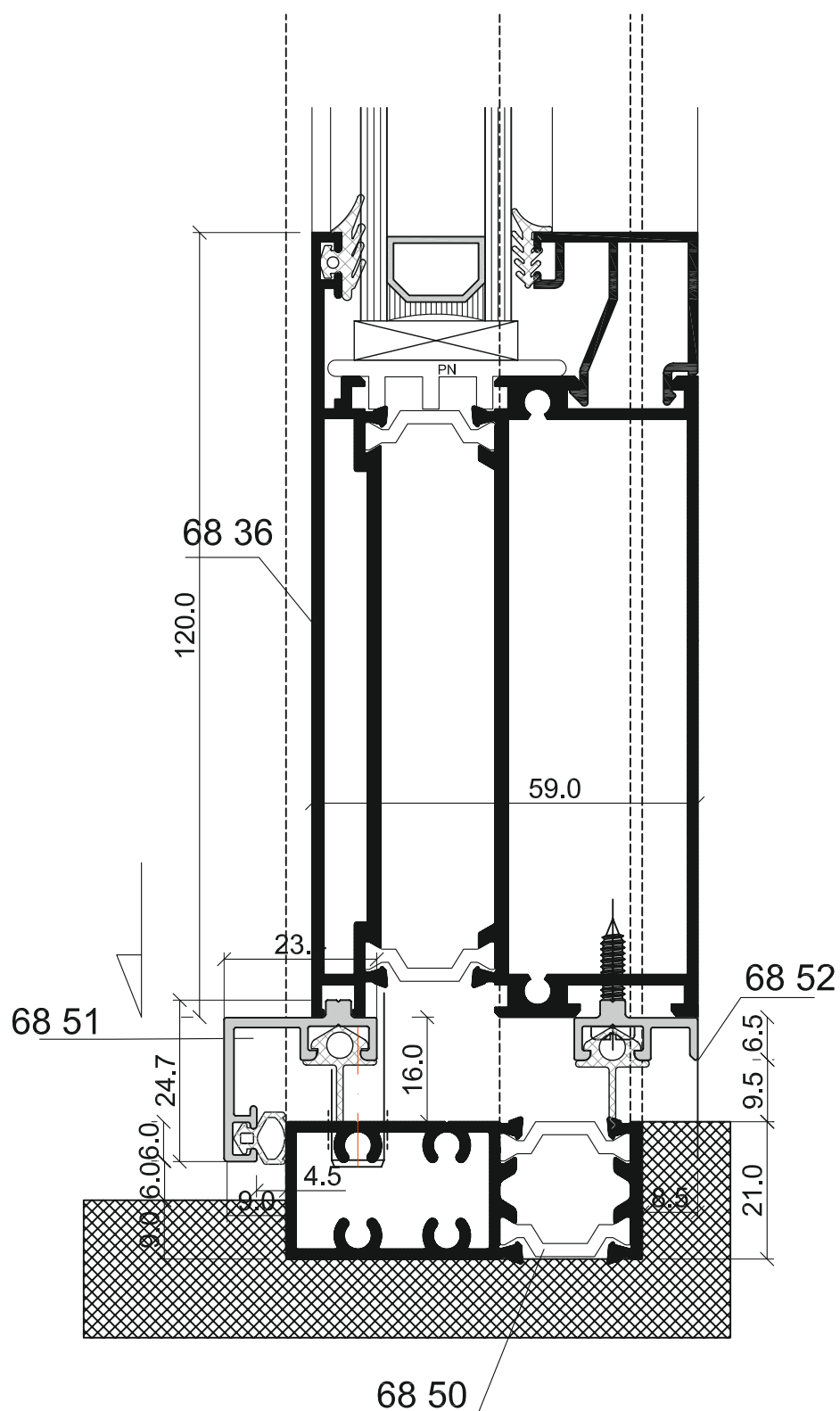
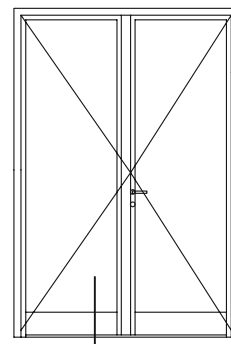
ALT
68

D

34



ALT 68	D	35
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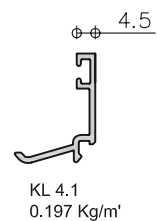
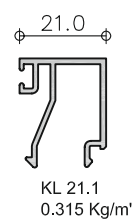
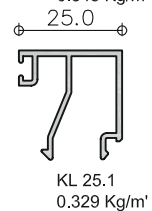
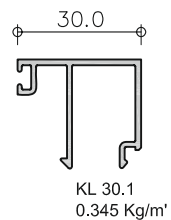
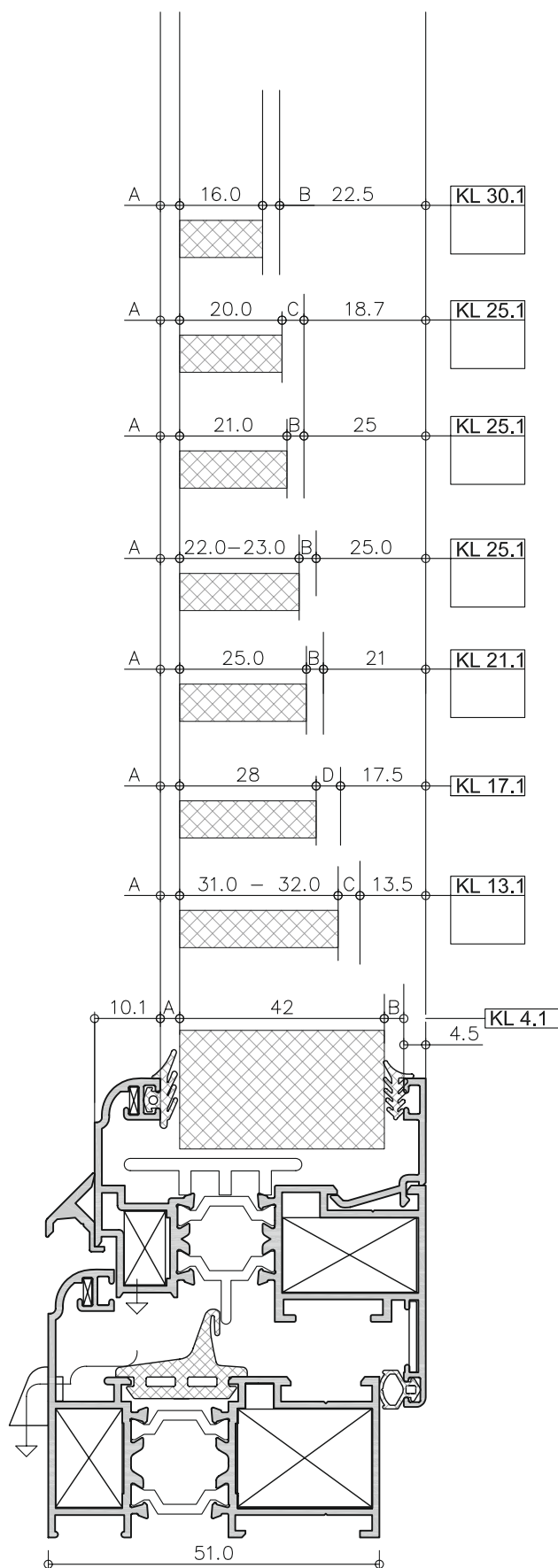
pregled možnosti
prihvatanja ispune

overview of the
possibilities of filling
accepting

ALT
68

E

1



GP 1 (A) (4mm)	GZ 1 (B) (3 mm)	GZ 2 (C) (4mm)	GZ 3 (D) (5 mm)

- * iporučuju se po posebnoj narudžbini
- * on demand

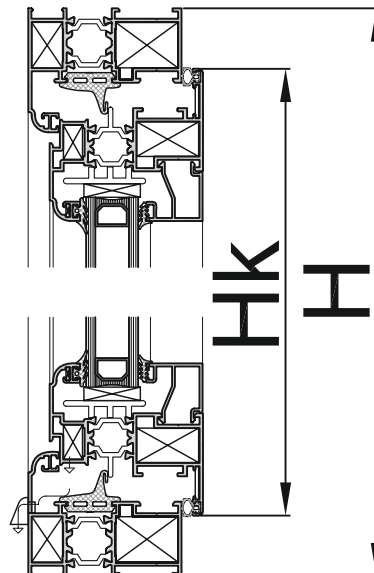
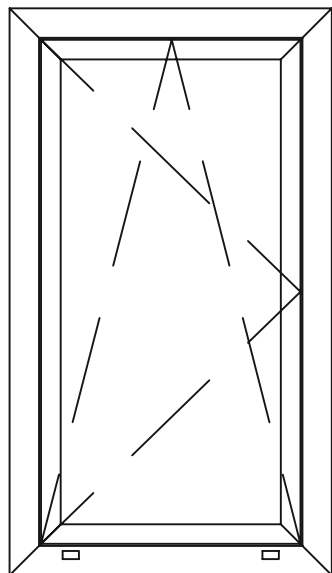
segment F

mašinska razrada
machine development

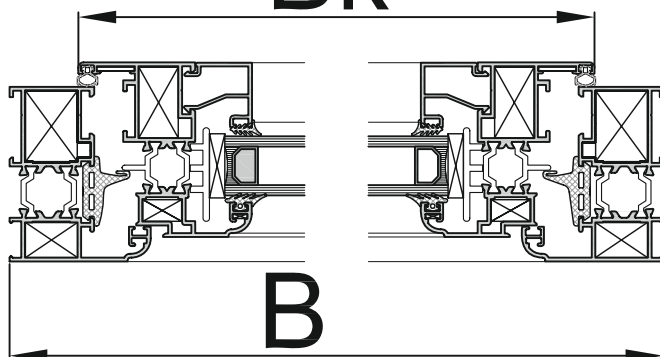
ALT
68

F

1



Bk



Sastavnica materijala							
pozicija	naziv	oznaka	krojenje	kom/j	L(mm)	kom	obrazac
1	horizontala štoka	68 11		2	1000	2	B
2	vertikala štoka	68 11		2	1400	2	H
3	horizontala krila	68 21		2	945	2	Bk=B-2*33+2*5,5
4	vertikala krila	68 21		2	1345	2	Hk=H-2*33+2*5,5
5	hor.kit lajsna	KL 21.1		2	854	2	Bkl=Bk-2*45,5
6	ver.kit lajsna	KL 21.1		2	1210	2	Hkl=Hk-2*45,5-2*22
7	ug.uloška-štok	M-5225 x 13,4	S 20 - 13	4		4	
8	ug.uloška-štok	M-5225 x 27,0	S 20 - 27	4		4	
9	limeni uglič štok/krilo		U 1.2	8		8	
10	ug.uloška-krilo	M-5224x 8,4	S 15 - 8	4		4	
11	ug.uloška-krilo	M-5224x 27,0	S 15 - 27	4		4	
12	limeni uglič krilo		U 2	4		4	
13	guma	GC 68	m'	4,6		4,6	(Bk+Hk)*2
14	guma	GK 1	m'	4,6		4,6	(Bk+Hk)*2
15	guma	GP 1	m'	4,2		4,2	(Bkl+Hkl)*2
16	guma	GZ 3	m'	4,2		4,2	(Bkl+Hkl)*2
17	okapnik	PO		2		2	
18	okapnica	OK 1		1	879	1	Bk-2*33
19	zavrtanj	A 2,9 x 13	JUS M.B1.467	3		3	
20	termopan # 4+15+4	FLOT + FLOT			837		Bk-2*45,5-12-5
				1	1237	1	Hk-2*45,5-12-5
21	nosač kajle za staklo	PN	PA	7		7	
22	N i D podmetači	20.03(40mm)	okiten	14		14	

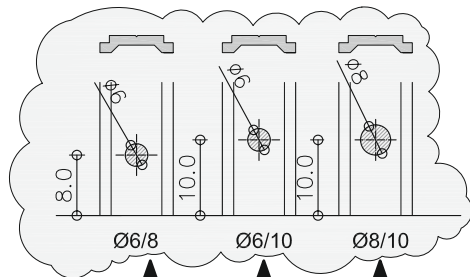
segment G

univerzalna presa ručna

universal hand presses

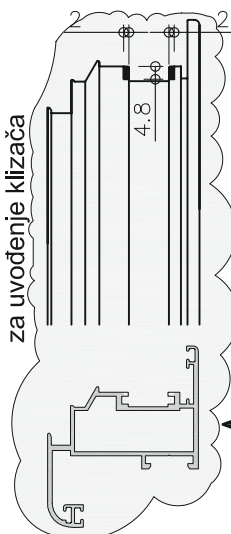
ALS 57 (K1)
ALT 55 (K1)
ALT 68 (K1)

otvor na klizaču



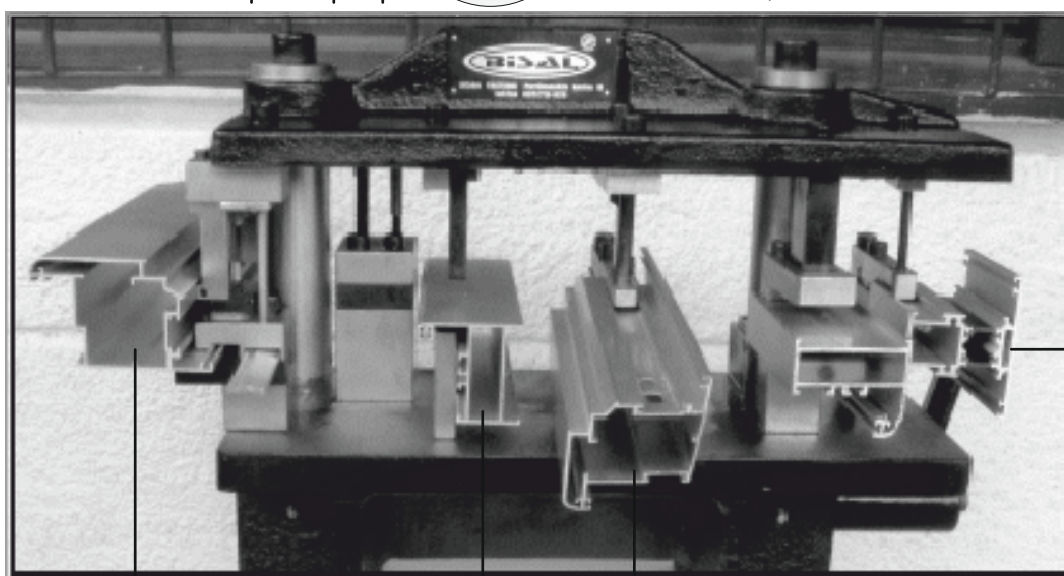
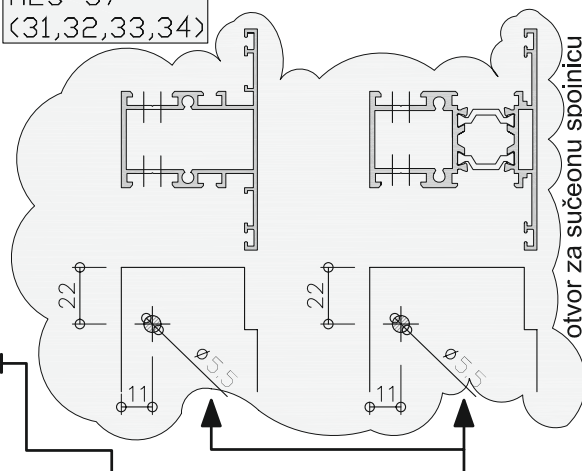
ALS 57 (21,22,23)
ALT 55 (21,23,24)
ALT 68 (21,23,24)

podsecanje krila
za uvođenje klizača

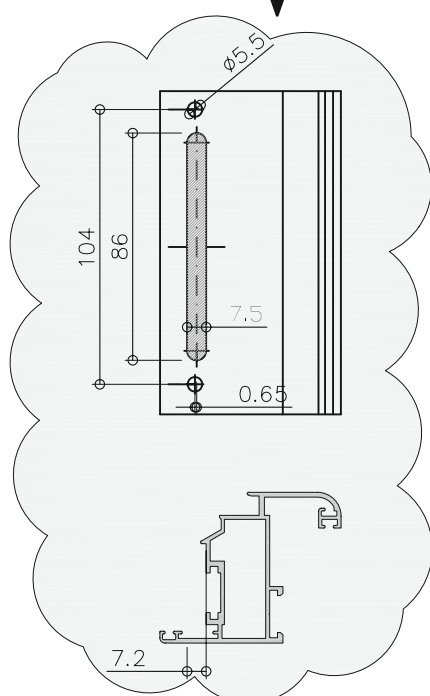


ALS 57
(31,32,33,34)

ALT 55 (31,33)
ALT 68 (32,33,34,35)

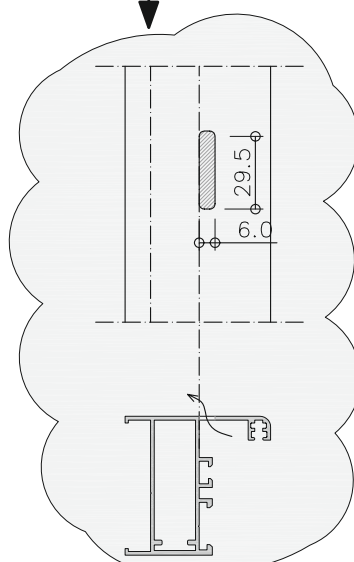


otvor za ručicu



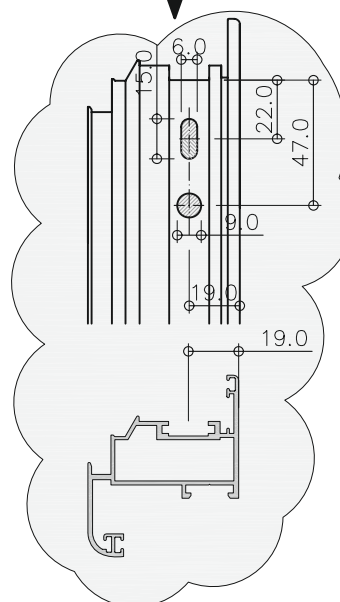
ALS 57 (21,22)
ALT 55 (21,23,24)
ALT 68 (21,23)

otvor za drenažu



ALS 57 (11,12)
ALT 55 (11)
ALT 68 (11,12,13)
ALD 2100 (11,12)
ALD 2101 (03)

otvor za montažnu
ugaonu spojnicu



ALS 57 (11,12,13,21,22,23)
ALT 55 (11,21,23,24)
ALT 68 (11,12,13,21,23,24)

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