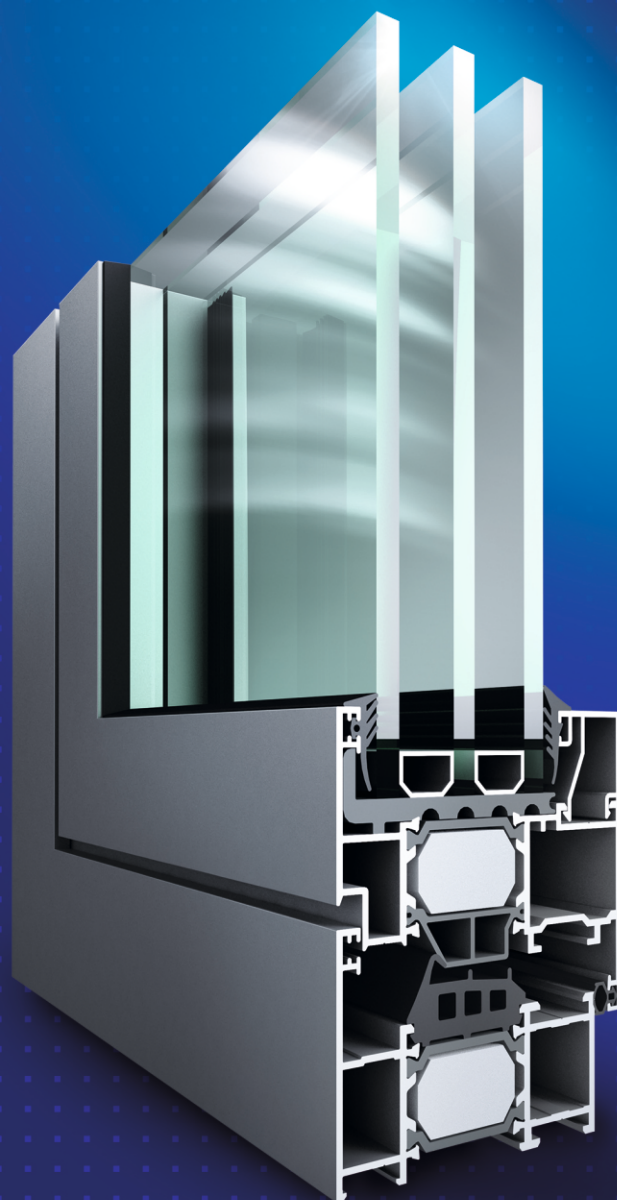


nissal
NEWMET



ALT 7500 SYSTEM

ALT 7500 // 2016

sadržaj

contents

tehnički opis	technical description
A prateći materijal	accessories
B pregled profila	structural elements overview
C profili sa EURO žlebom	profiles with EURO groove
D profili sa PVC žlebom	profiles with PVC groove
E detalji	details

tehnički opis

technical description

ALT 7500

Sistem ALT 7500 predstavlja konstrukciju aluminijumskih profila sa termo prekidom koji čine poliamidne trake širine 34 mm. Svoju široku primenu je obezbedio zahvaljujući svojim tehničkim i termičkim karakteristikama.

Sa koeficijentom prolaza toplote, za ram $U_f=1,75 \text{ W/m}^2\text{K}$ i za prozor $U_w=1.01 \text{ W/m}^2\text{K}$, (sa ispunom od troslojnog termoizolacionog stakla sa koeficijentom prolaza toplote $U_g=0.7 \text{ W/m}^2\text{K}$), ovaj sistem spada u sam vrh ponude termoizolovanih konstruktivnih sistema, 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 «PVC ŽLJEB-a» i EPDM dihtung zaptivkamanajnovije generacije,

- bilo kog tipa prozora;
- balkonskih vrata sa jednim ili više krila (zaokretna ili klizno uskočna);
- portala i drugih fasadnih pregrada.

Aluminijumski profili su sa ravnim ivicama, modernog dizajna.

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 34 mm proizvedene od visokokvalitetnog atestiranog poliamida PA66 GF 25.
- Debljina ispune/stakla: Različite, od 29 do 64 mm u zavisnosti od vrste upotrebljenih kit lajsni.
- Termo ispuna prostora (komora) ovičenih poliamidnim trakama i

System ALT 7500 is a constructive system with thermal bridge accomplished through implementation of 34 mm wide polyamide bars.

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

With a thermal transmittance coefficient for frame $U_f = 1,75 \text{ W/m}^2\text{K}$, and for a window $U_w = 1,01 \text{ W/m}^2\text{K}$ (with a triple glass filling $U_g = 0,7 \text{ W/m}^2\text{K}$) this system is ranked at a very top of the thermo insulated constructive systems offer on the market which contributed to its application to the projects where besides mechanical and other characteristics dominant requirement is thermal characteristics of a system.

IMPLEMENTATION POSSIBILITIES:

This system of aluminum profiles, with thermal bridge, with <<Euro-groove>> and <<PVC-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) turn or lift and slide
- portals, and other facade partitions.

Aluminum profiles are with flat edges and modern design.

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 34 mm wide, made of a high quality attested polyamide PA66 GF 25

ALT 7500

prostora oko termo stakla vrši se penastim termoizolacionim materijalom.

- Centralna guma je od dvokomponentnog E.P.D.M.-a. Kompaktni deo profila vezuje se za aluminijumski profil, a mikroporozni služi kao termo ispuna.
- 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.

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 prolaza toplote kroz ram $U_f=1,75 \text{ W/m}^2\text{K}$ i koeficijent prolaska toplote za prozor dimenzija 1230 x 1480 mm

- $U_w=1,01 \text{ W/m}^2\text{K}$ uz staklo sa koeficijentom $U_g=0,7 \text{ W/m}^2\text{K}$ i

- $U_w=1,36 \text{ W/m}^2\text{K}$ uz staklo sa koeficijentom $U_g=1,1 \text{ W/m}^2\text{K}$

Propustljivost vazduha klasa " 4 " prema standardu SRPS EN 12207:2008

Otpornost prema propuštanju vode „E750 „ prema standardu SRPS EN 12208:2008

Otpornost prema opterećenju od vetra " C4 "prema standardu SRPS EN 12210:2011

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.

- *Thickness of the filling/glass: vary, from 29 – 64 mm, in dependence of glazing bad used.*
- *Filling of the area around polyamide bars and area around the glass is done with t thermo insulating foamy material (Polyethylene foam)*
- *Central rubber profile of the system is made of two component E.P.D.M.*
- *Frames coupling are done either with corner joints made of pressed aluminum profile fixed with expanding glue and impressed, or with split corner joint.*

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. gasket or with polyamide bars, with a resulting thermal transmittance coefficient for frame $U_f = 1,75 \text{ W/m}^2\text{K}$, and thermal transmittance coefficient for a window 1230x 1480 mm

- **$U_w = 1,01 \text{ W/m}^2\text{K}$** (with a glass $U_g = 0,7 \text{ W/m}^2\text{K}$)
- **$U_w = 1,36 \text{ W/m}^2\text{K}$** (with a glass $U_g = 1,1 \text{ W/m}^2\text{K}$)
- **Air permeability class 4** according to SRPS EN 12207:2008
- **Watertightness E750** according to SRPS EN 12208:2008
- **Wind load resistance C4** according to SRPS EN 12210:2011

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.

ALT 7500

POVR INSKA 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 puno poštovanje evropskih standarda (*QUALANOD* za eloksažu i *QUALICOAT* za plastifikaciju).

Eloksaža u *NISSAL NEWMET*-u obavlja se sa potpunoobnovljenom 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.

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 "QUALANOD" 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.

ALT 7500

KVALITET:

Kvalitet svih NISSAL NEWMET-ovih proizvoda je garantovan striktno propisanim proizvodnim procedurama – od presovanja aluminijumskih profila i poštovanja dogovarajućih 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 iz sopstvenog proizvodnog programa ili 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.

Bulevar Svetog Cara Konstantina bb
18 000 Niš, Srbija
tel: ++381 18 502 504
tel: ++381 18 502 333
fax: ++381 18 502 503
www.nissal.co.rs

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 "QUALANOD" 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.

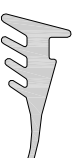
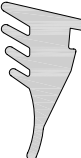
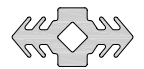
Svetog Cara Konstantina bb Blvd
18 000 Niš, Serbia
tel: ++381 18 502 504
tel: ++381 18 502 333
fax: ++381 18 502 503
<http://www.nissal.co.rs>

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

segment A

prateći materijal

accessories

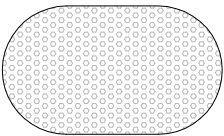
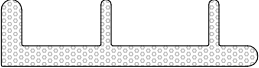
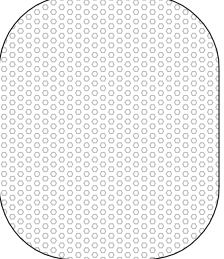
oznaka code	izgled design	opis description	veza sa connected to	jed. mere / pakovanje unit / pack
GP 1L		prednji naslon za staklo / front glass support d=3-4 mm <i>materijal/material: EPDM</i>	Za sva krila For all sashes	m'
GZ 1L		zadnji naslon za staklo / rear glass support d=3 mm <i>materijal/material: EPDM</i>	Za sve kit lajsne For all glazing beads	m'
GZ 2L		zadnji naslon za staklo / rear glass support d=4 mm <i>materijal/material: EPDM</i>	Za sve kit lajsne For all glazing beads	m'
GZ 3L		zadnji naslon za staklo / rear glass support d=5 mm <i>materijal/material: EPDM</i>	Za sve kit lajsne For all glazing beads	m'
CG 7500	 2 : 1	centralni dihtung / central gasket <i>materijal/material: EPDM EPDM</i>	7500 11 7500 12 7500 31 7500 41	m'
GD 1		dilatacioni dihtung / dilation gasket <i>materijal/material: EPDM</i>	DP 1 DP 2	m'
2100 G7		zaptivka izmedju štoka i zida / sash and floor gasket <i>materijal/material: EPDM</i>	7500 51 7500 52	m'

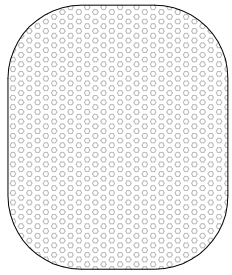
ALT 7500
TopTherm

A

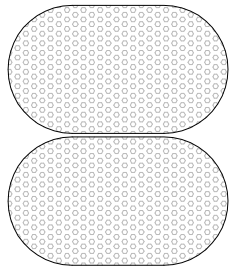
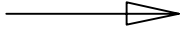
2



oznaka code	izgled design	opis description	veza sa connected to	jed. mere / pakovanje unit / pack
PROFIL 1		termo ispuna / thermo filling <i>materijal/material:</i> <i>polietilen / polyethylene</i>		$\frac{\text{kom/pcs}}{x}$
PROFIL 2		termo ispuna / thermo filling <i>materijal/material:</i> <i>polietilen / polyethylene</i>		$\frac{\text{kom/pcs}}{x}$
PROFIL 3		termo ispuna / thermo filling <i>materijal/material:</i> <i>polietilen / polyethylene</i>		$\frac{\text{kom/pcs}}{x}$



PROFIL 3



PROFIL 1

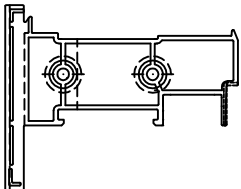
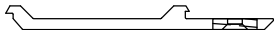
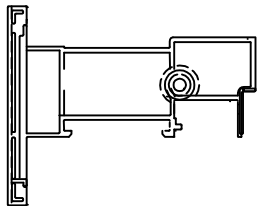
PROFIL 1

ALT 7500
TopTherm

A

3



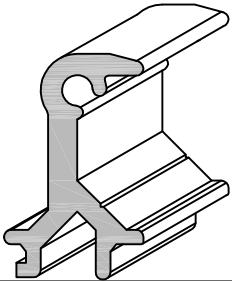
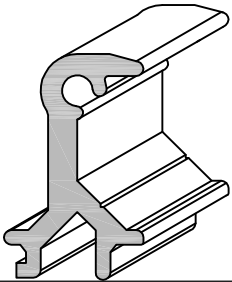
oznaka code	izgled design	opis description	veza sa connected to	jed. mere / pakovanje unit / pack
PN 7500		nosač kajle / bottom glass support <i>materijal/material:</i> <i>poliamid / polyamide</i>	Za sva krila i štokove For all sashes & frames	kom/pcs x
P 7500 D		zatvarač srednje dopune / central rabbet cap <i>materijal/material:</i> <i>poliamid / polyamide</i>	7500 41	kom/pcs x
7500 N		razupirač / distnacer <i>materijal/material:</i> <i>poliamid / polyamide</i>	Za sve štokove For all frames	kom/pcs x
P 7500 42 D		zatvarač srednje dopune / central rabbet cap <i>materijal/material:</i> <i>poliamid / polyamide</i>	7500 42	kom/pcs x

ALT 7500
TopTherm

A

5

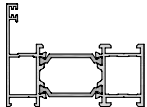
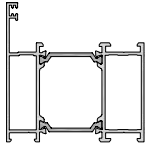
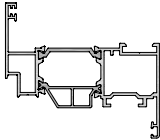
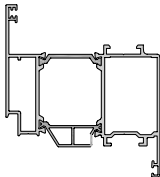
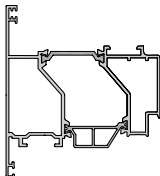
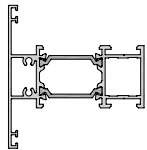
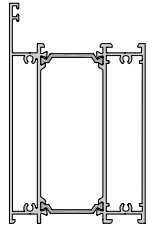
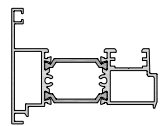


oznaka code	izgled design	opis description	veza sa connected to	jed. mere / pakovanje unit / pack
SS 20		sučeona spojnica (M 5227) / extruded joint (M 5227) L=20 mm <i>materijal/material:</i> <i>aluminijum/aluminum</i>	7500 31	kom/pcs 20
SS 76		sučeona spojnica (M 5227) / extruded joint (M 5227) L=76 mm <i>materijal/material:</i> <i>aluminijum/aluminum</i>	7500 34	kom/pcs 20

segment B

pregled elemenata
konstrukcije

review of construction
elements

oznaka code	izgled design 1:4	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
7500 11		štok frame	1.540	$I_x =$ $I_y =$	$\frac{\text{kom/pcs}}{/}$	C1
7500 12		štok frame	1.918	$I_x =$ $I_y =$	$\frac{\text{kom/pcs}}{/}$	C1
7500 21		Krilo Sash	1.685	$I_x =$ $I_y =$	$\frac{\text{kom/pcs}}{/}$	C2
7500 22		Krilo Sash	2.040	$I_x =$ $I_y =$	$\frac{\text{kom/pcs}}{/}$	C2
7500 23		Krilo Sash	2.120	$I_x =$ $I_y =$	$\frac{\text{kom/pcs}}{/}$	C3
7500 31		"T" profile "T" profile	1.689	$I_x =$ $I_y =$	$\frac{\text{kom/pcs}}{/}$	C4
7500 34		"T" profile "T" profile	2.930	$I_x =$ $I_y =$	$\frac{\text{kom/pcs}}{/}$	C4
7500 41		srednja dopuna central rabbet	1.606	$I_x =$ $I_y =$	$\frac{\text{kom/pcs}}{/}$	C5

oznaka code	izgled design 1:4	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
7500 50		prag / treshold	1.070		$\frac{\text{kom/pcs}}{/}$	C6
7500 51		Nosač dihtunga / Caulker bearer	0.280		$\frac{\text{kom/pcs}}{/}$	C7
7500 52		Nosač dihtunga / Caulker bearer	0.190		$\frac{\text{kom/pcs}}{/}$	C7
DP 1		dilatacioni profil dilation profile	0.300		$\frac{\text{kom/pcs}}{/}$	C9
DP 2		dilatacioni profil dilation profile	0.715		$\frac{\text{kom/pcs}}{/}$	C9

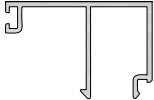
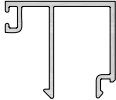
ALD 7500
TopTherm

B

3



oznaka code	izgled design 1:4	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
7500 24		Krilo Sash	1.553		$\frac{\text{kom/pcs}}{/}$	D2
7500 42		srednja dopuna central rabbet	1.386		$\frac{\text{kom/pcs}}{/}$	D2

oznaka code	izgled design 1:2	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		Kit lajsna / Glazing bead	0.420		$\frac{\text{kom/pcs}}{6}$	C4
KL 30.1		Kit lajsna / Glazing bead	0.345		$\frac{\text{kom/pcs}}{6}$	C4
KL 25.1		Kit lajsna / Glazing bead	0.329		$\frac{\text{kom/pcs}}{6}$	C4
KL 21.1		Kit lajsna / Glazing bead	0.315		$\frac{\text{kom/pcs}}{6}$	C4
KL 17.1		Kit lajsna / Glazing bead	0.278		$\frac{\text{kom/pcs}}{6}$	C4
KL 13.1		Kit lajsna / Glazing bead	0.263		$\frac{\text{kom/pcs}}{6}$	C4
KL 10.1		Kit lajsna / Glazing bead	0.260		$\frac{\text{kom/pcs}}{6}$	C4
KL 4.1		Kit lajsna / Glazing bead	0.197		$\frac{\text{kom/pcs}}{6}$	C4

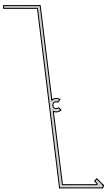
* iporučuju se po posebnoj narudžbini
* on demand

ALD 7500
TopTherm

B

5



oznaka code	izgled design 1:4	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		$\frac{\text{kom/pcs}}{2}$	C6
OK 100		Okapnica / Water drainage	0.750		$\frac{\text{kom/pcs}}{1}$	C6
K 1	 (1:2)	Klizač / Skater	0.130		$\frac{\text{kom/pcs}}{6}$	C6

segment C

profili sa EURO žlebom

profiles with EURO groove

ALT 7500
TopTherm

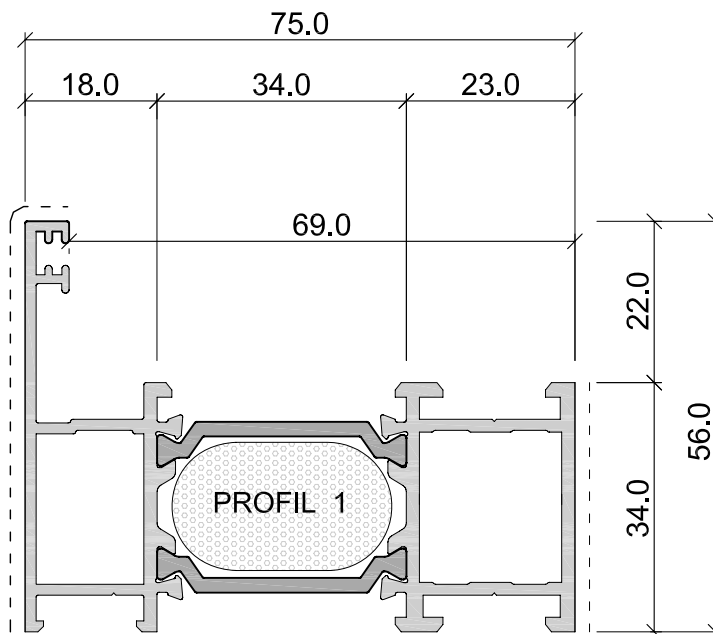
C

1



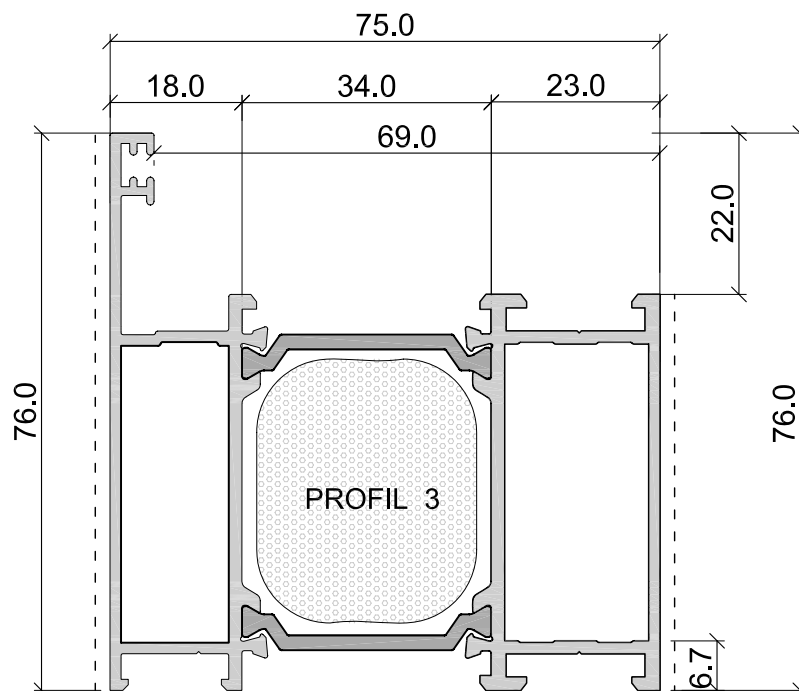
7500 11

Štok / Frame
1.406 Kg/m'



7500 12

Štok / Frame
1.918 Kg/m'



* isporučuju se po posebnoj narudžbini /on demand

----- vidna površina/ visible surface

———— povremeno vidna površina/occasionally surface

ALT 7500
TopTherm

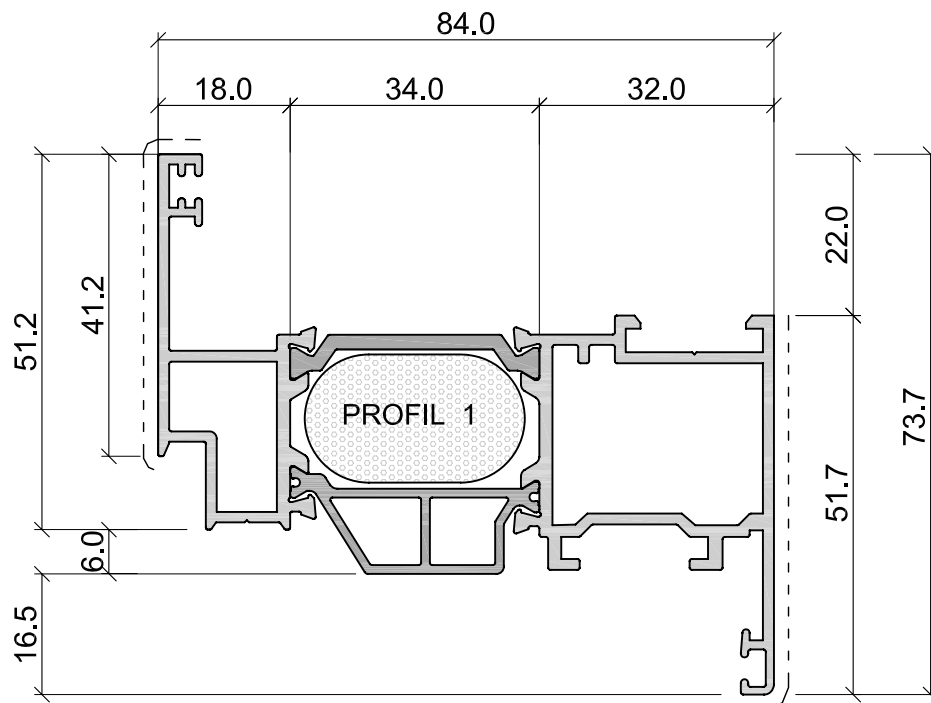
C

2



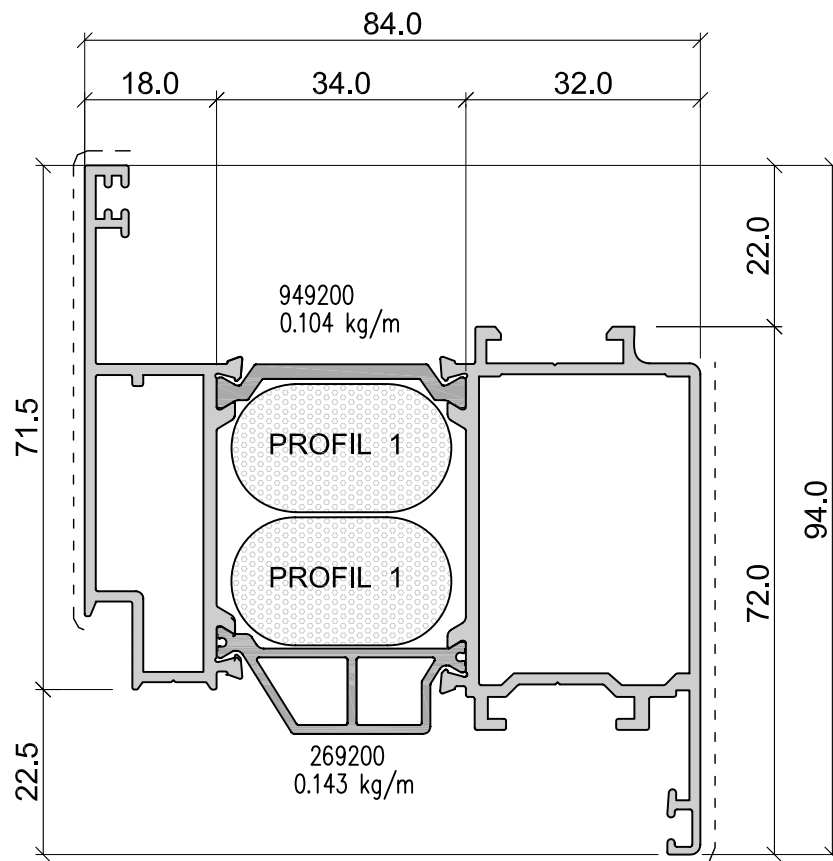
7500 21

Krilo / Sash
1.618 Kg/m'



7500 22

Krilo / Sash
2.040 Kg/m'



* isporučuju se po posebnoj narudžbini /on demand

----- vidna površina/ visible surface

———— povremeno vidna površina/occasionally surface

ALT 7500
TopTherm

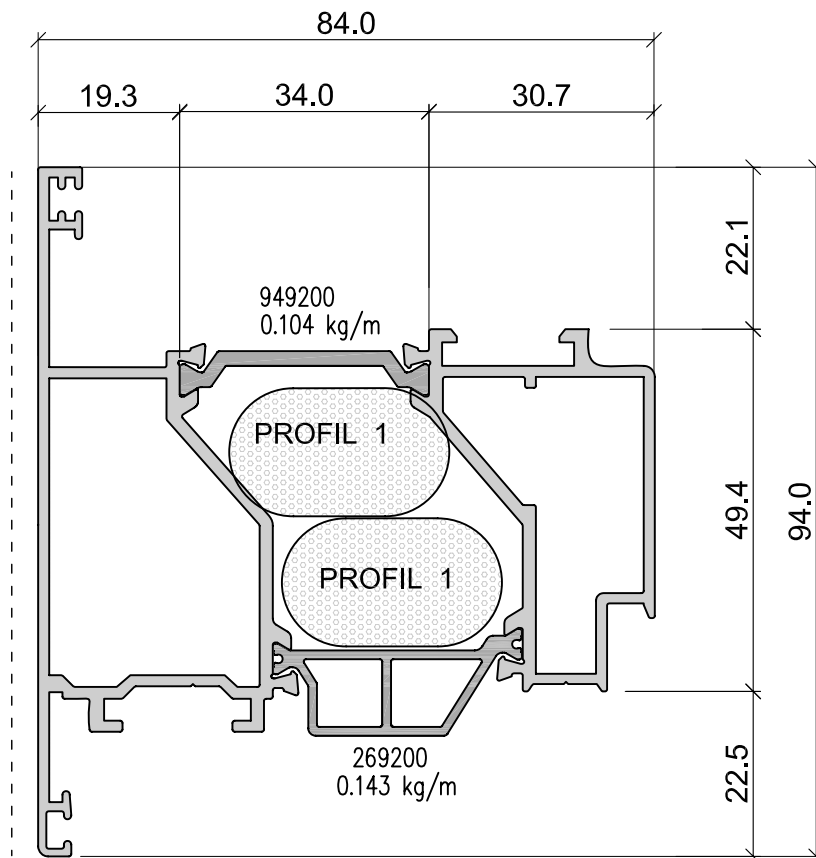
C

3



7500 23

Krilo / Sash
2.120 Kg/m'



* isporučuju se po posebnoj narudžbini /on demand

- - - - - vidna površina/ visible surface

— povremeno vidna površina/occasionally surface

* isporučuju se po posebnoj narudžbini

* on demand

ALT 7500
TopTherm

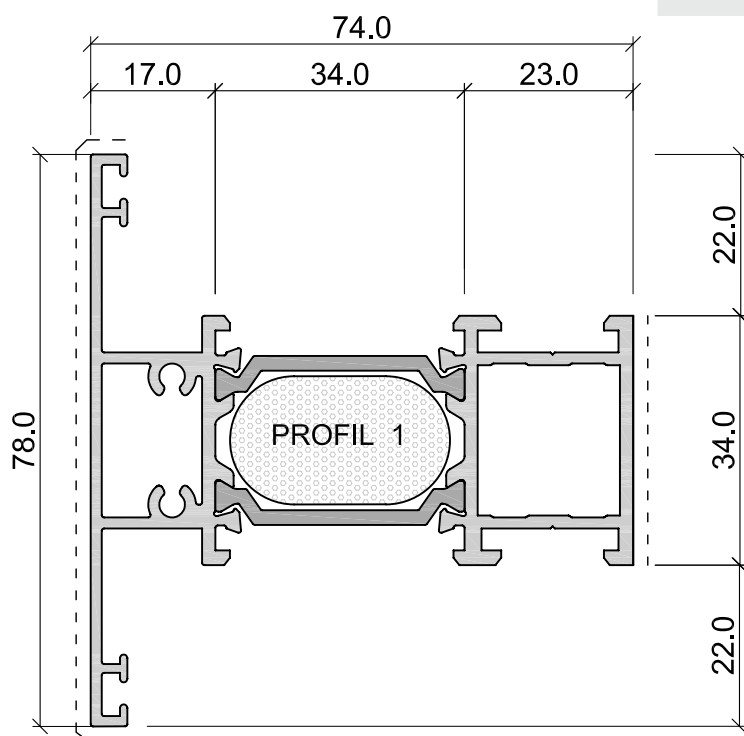
C

4



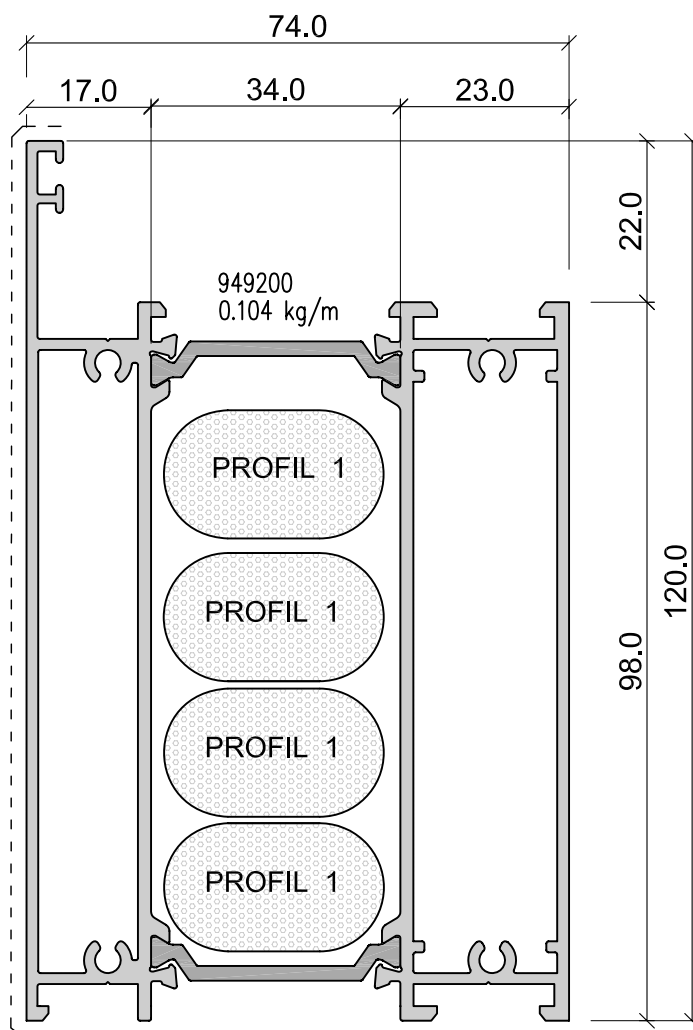
7500 31

"T" Profil / "T" Profile
1.664Kg/m'



7500 34

Parapetni profil /
Bottom Profile
2.930 Kg/m'



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

* isporučuju se po posebnoj narudžbini
* on demand

ALT 7500
TopTherm

C

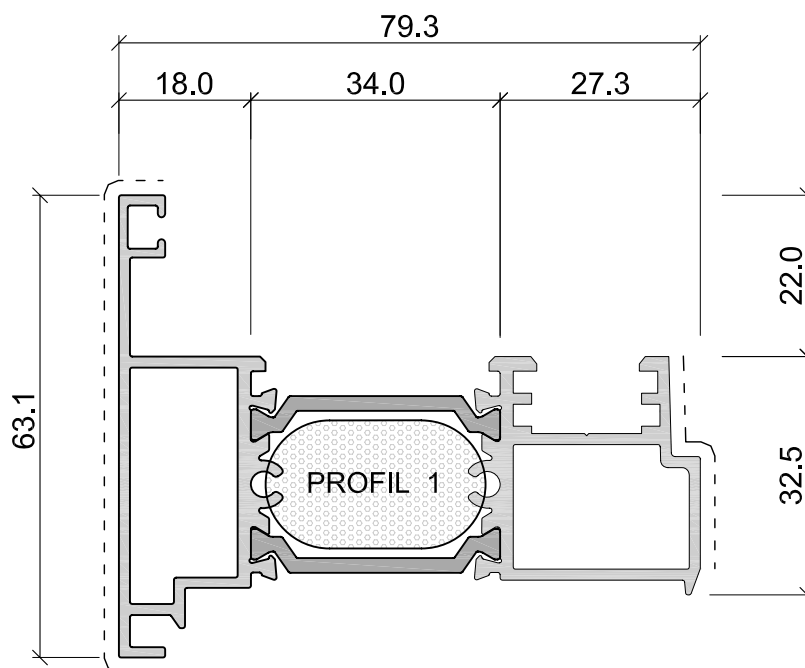
5



7500 41

Srednja dopuna /
Central rabbet

1.606 Kg/m'



* isporučuju se po posebnoj narudžbini /on demand

- - - - - vidna površina/ visible surface

———— povremeno vidna površina/occasionally surface

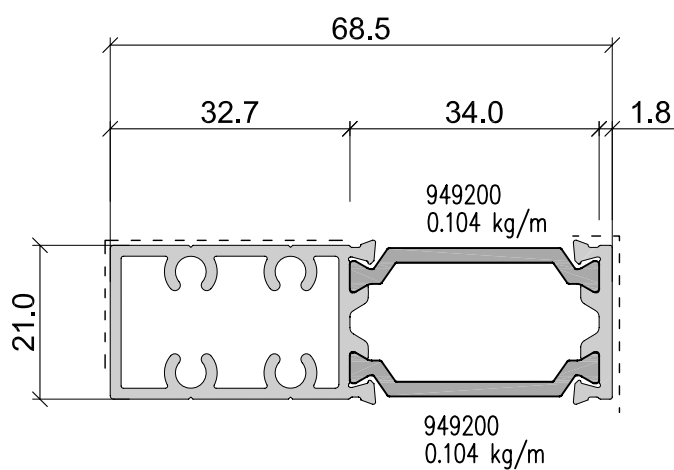
ALT	C	6
7500		



7500 50

Prag / Treshold

1.070 Kg/m'



* isporučuju se po posebnoj narudžbini /on demand

- - - - - vidna površina/ visible surface

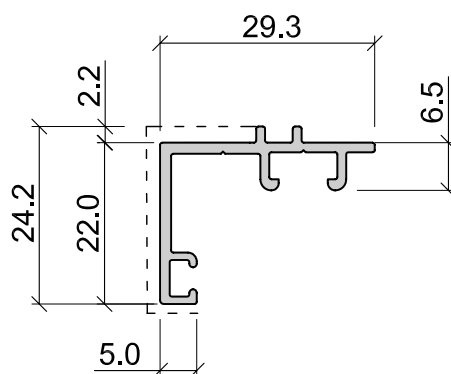
———— povremeno vidna površina/occasionally surface

ALT	C	7
7500		



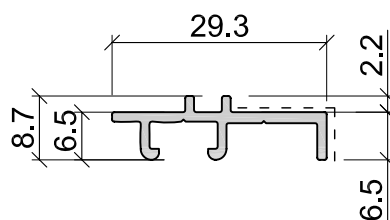
7500 51

Nosač dihtunga /
Caulker bearer
M 5695
0.280 Kg/m'



7500 52

Nosač dihtunga /
Caulker bearer
M 5696
0.190 Kg/m'



* isporučuju se po posebnoj narudžbini /on demand

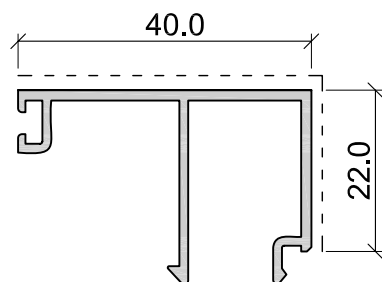
----- vidna površina/ visible surface

———— povremeno vidna površina/occasionally surface

ALT 7500
TopTherm

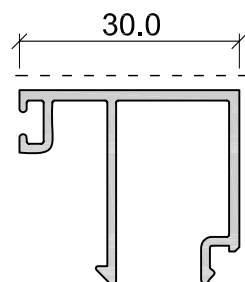
C

8



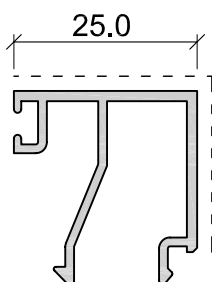
KL 40.1

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



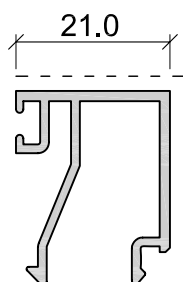
KL 30.1

Kit lajsna / Glazing bead
M 4807
0.345 Kg/m'



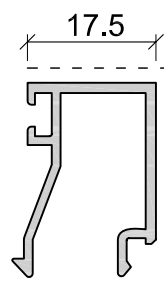
KL 25.1

Kit lajsna / Glazing bead
M 4849
0.329 Kg/m'



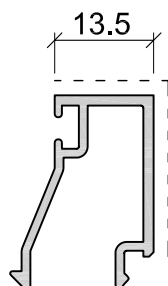
KL 21.1

Kit lajsna / Glazing bead
M 4951
0.315 Kg/m'



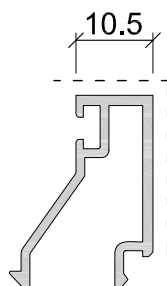
KL 17.1

Kit lajsna / Glazing bead
M 5136
0.278 Kg/m'



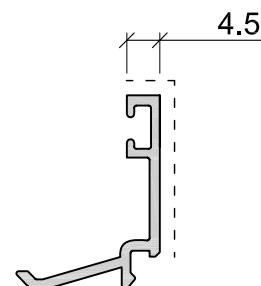
KL 13.1

Kit lajsna / Glazing bead
M 4809
0.263 Kg/m'



KL 10.1

Kit lajsna / Glazing bead
M 5135
0.260 Kg/m'



KL 4.1

Kit lajsna / Glazing bead
M 4808
0.197 Kg/m'

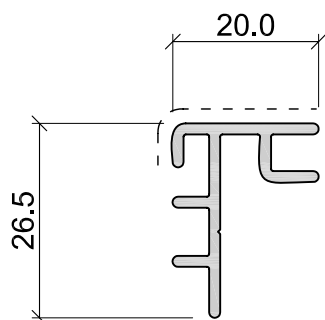
----- vidna površina/ visible surface
——— povremeno vidna površina/occasionally surface

* isporučuju se po posebnoj narudžbini
* on demand

ALT 7500
TopTherm

C

9

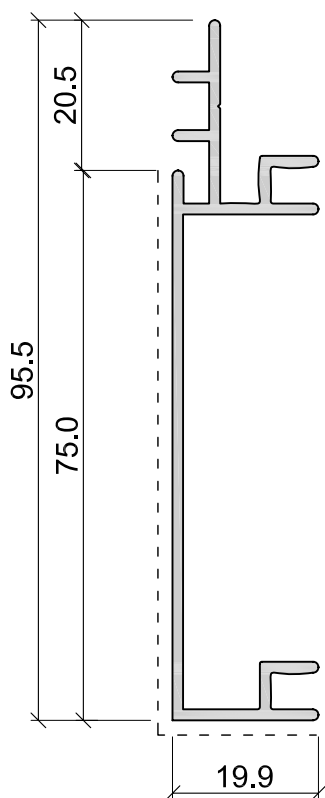


DP 1*

(M 5657)

dilatacioni profil 1

0.300 Kg/m'



DP 2*

(M 5656)

dilatacioni profil 2

0.715 Kg/m'

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

* isporučuju se po posebnoj narudžbini
* on demand

ALT 7500
TopTherm

C

10

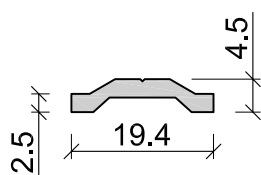


K 1

M 3333

Klizač / Skater

0.130 Kg/m'

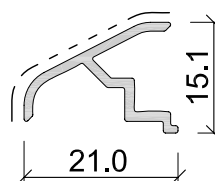


OK 1

M 3242

Okapnica / Water drainage

0.130 Kg/m'

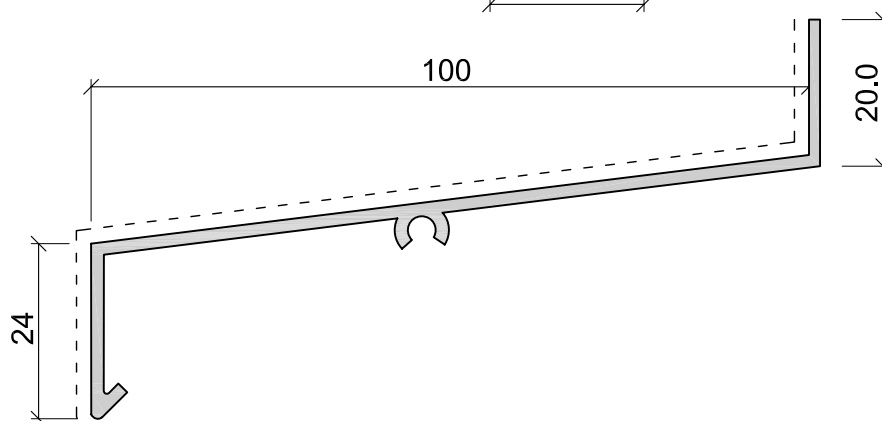


OK 100*

Okapnica / Water drainage

M 1240

0.750 Kg/m'

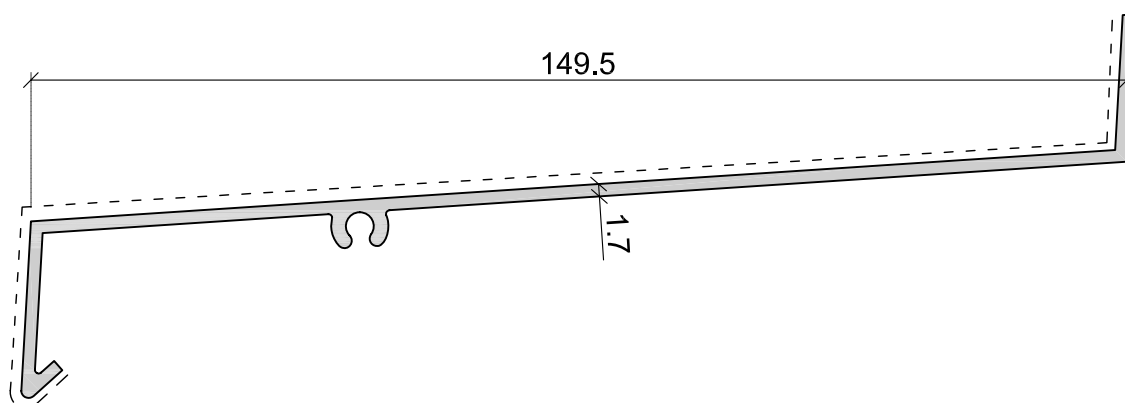


OK 150

Okapnica / Water drainage

M 1320

0.956 Kg/m'



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

* isporučuju se po posebnoj narudžbini
 * on demand

ALT 7500
TopTherm

C

11

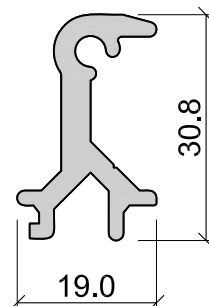


M 5227

Sučeona spojnica / Joint

0.507 Kg/m'

SS - 20



M 5225

Uloška / Joint corner

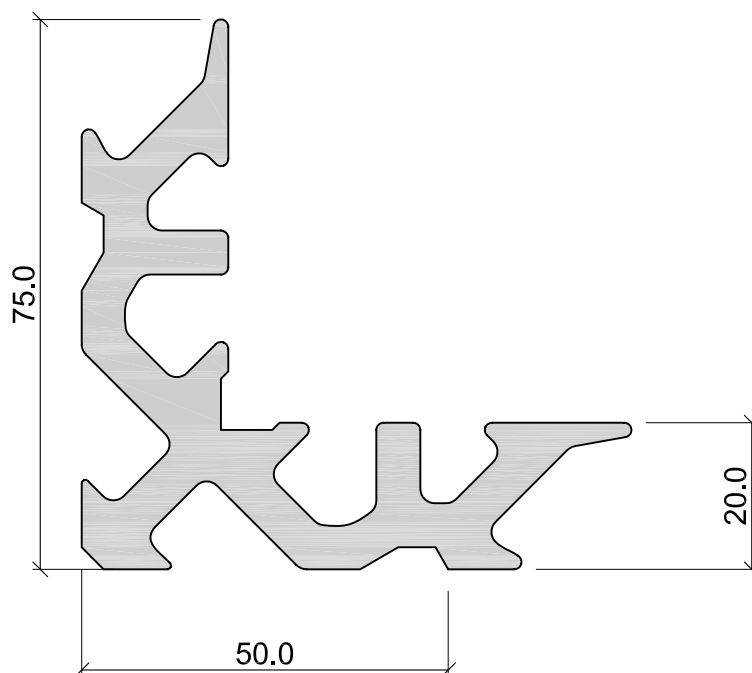
3.342 Kg/m'

S 20 - 8

S 20 - 14

S 20 - 19

S 20 - 27



segment D

profili sa žljebom za PVC
okov

profiles with groove for
PVC fittings

ALT 7500
TopTherm

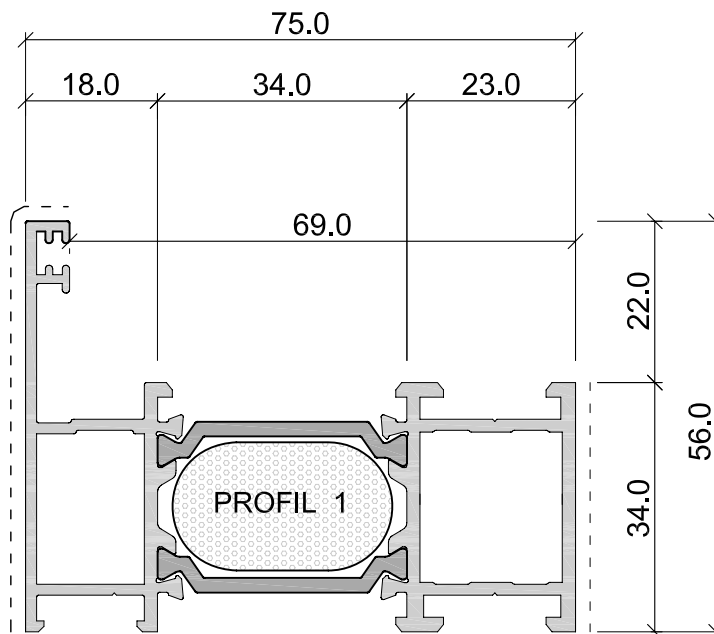
D

1



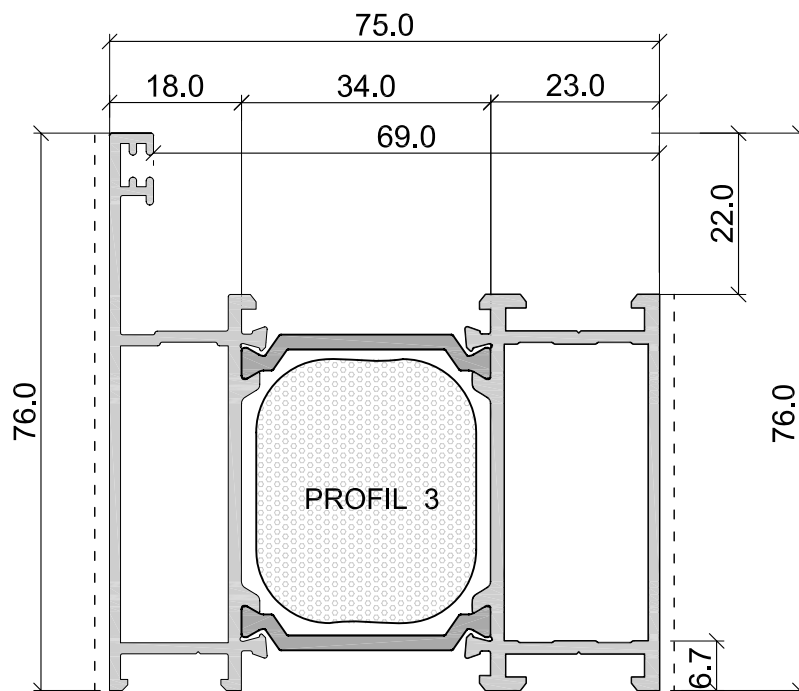
7500 11

Štok / Frame
1.540 Kg/m'



7500 12

Štok / Frame
1.918 Kg/m'



* isporučuju se po posebnoj narudžbini /on demand

----- vidna površina/ visible surface

———— povremeno vidna površina/occasionally surface

ALT 7500
TopTherm

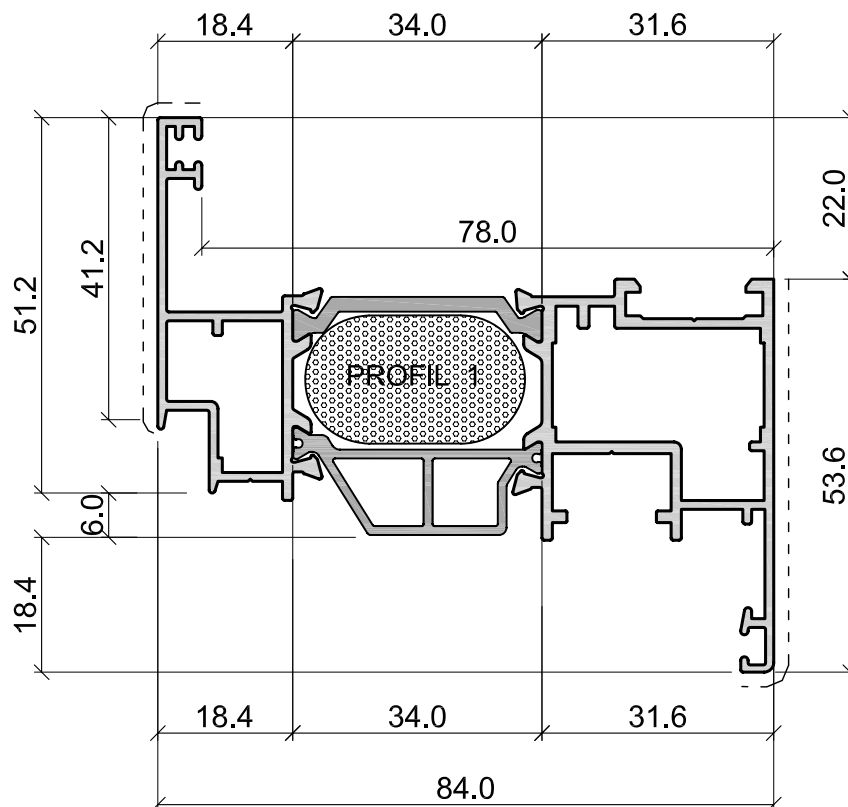
D

2



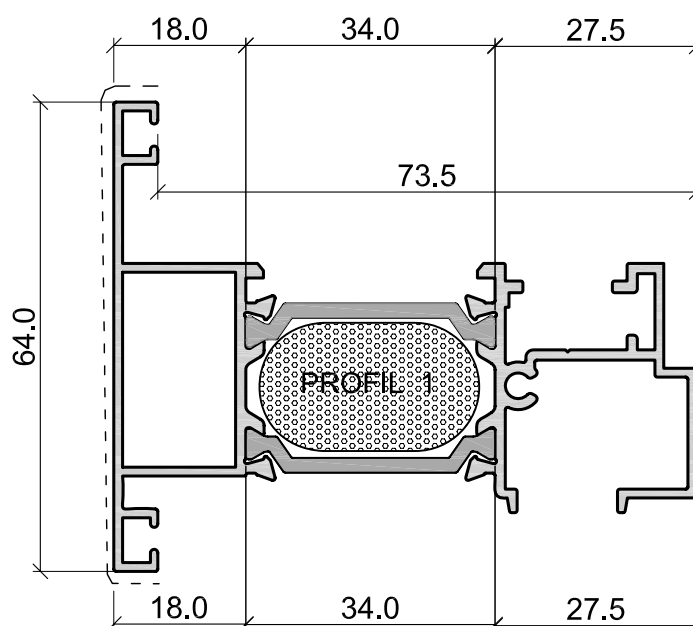
7500 24

Krilo / Sash
1.578 Kg/m'



7500 42

Krilo / Sash
1.160 Kg/m'



* isporučuju se po posebnoj narudžbini /on demand

----- vidna površina/ visible surface

———— povremeno vidna površina/occasionally surface

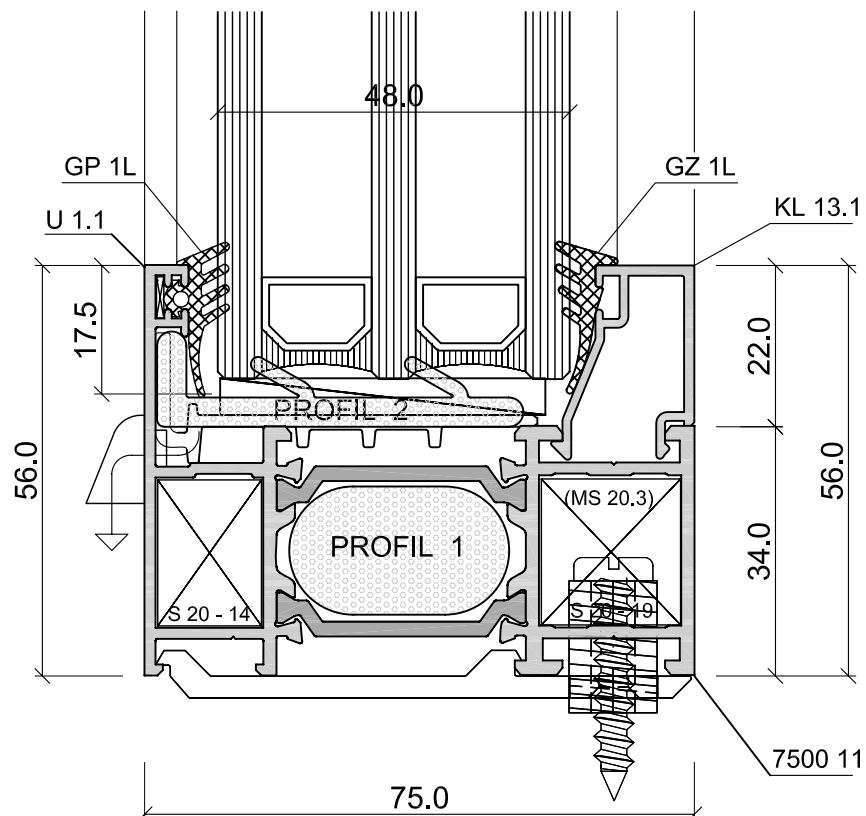
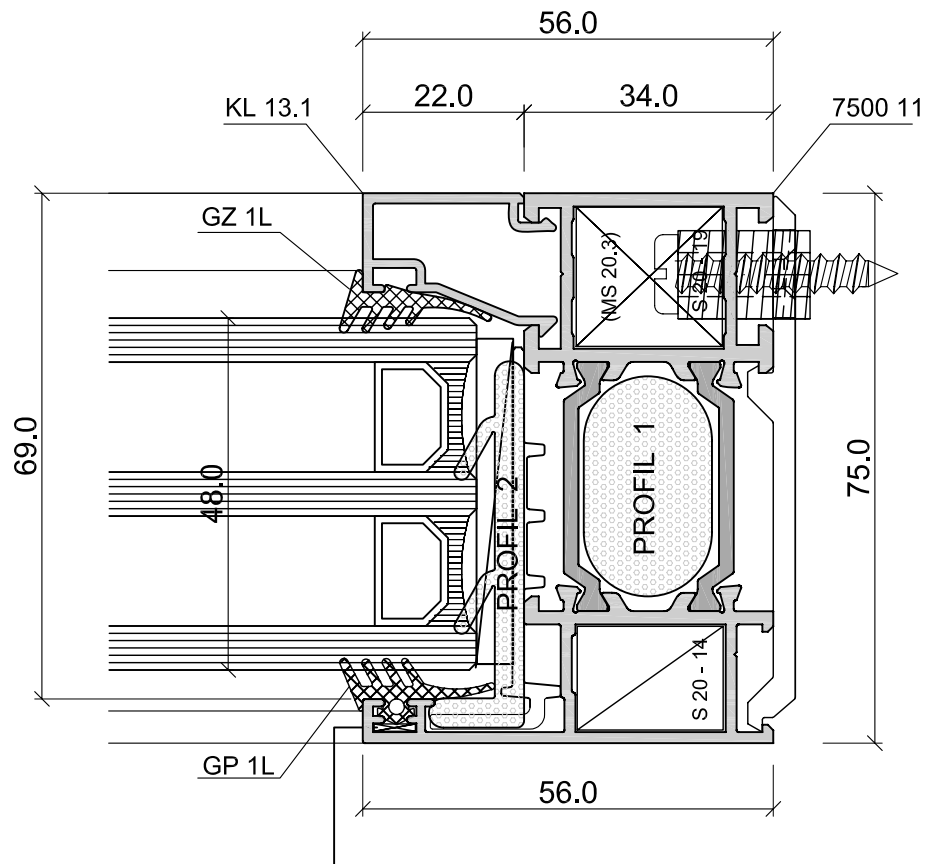
segment E

detalji
details

ALT 7500
TopTherm

E

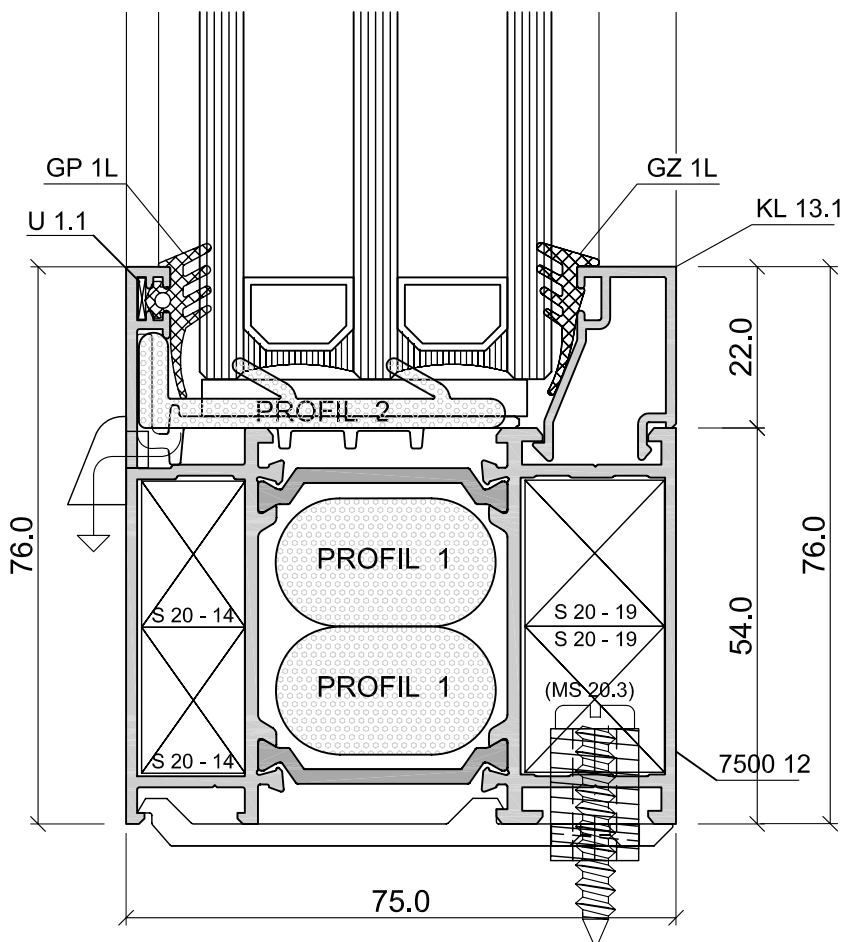
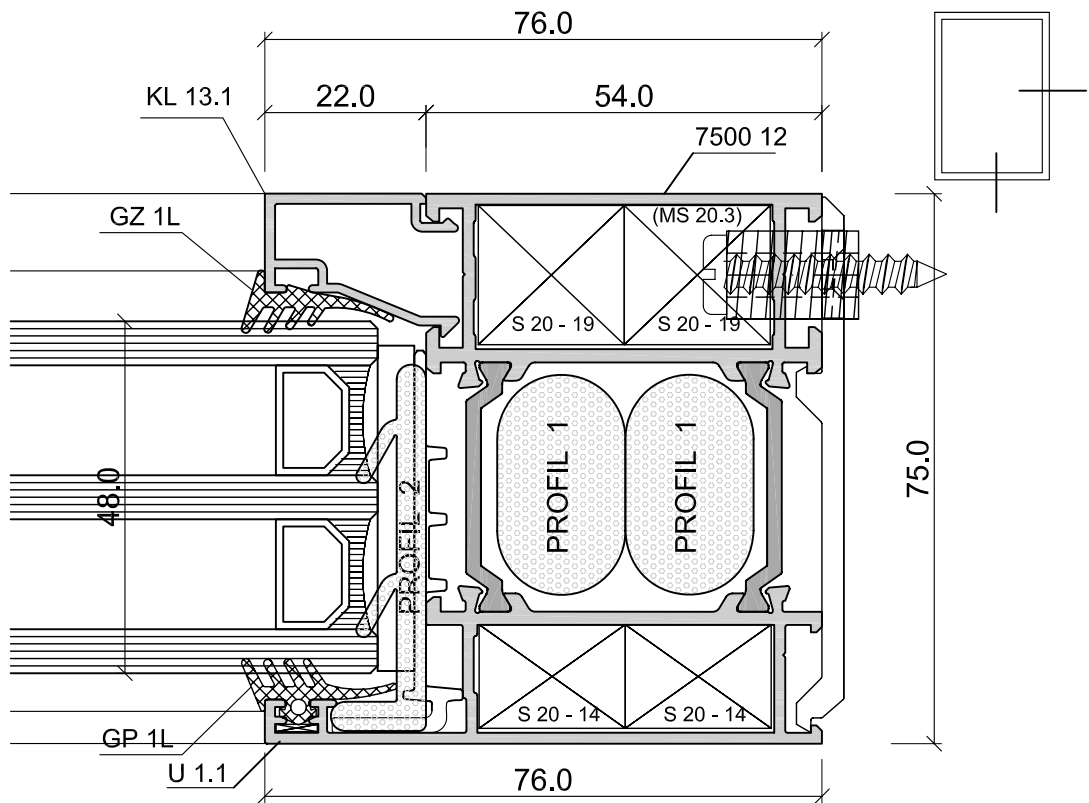
1



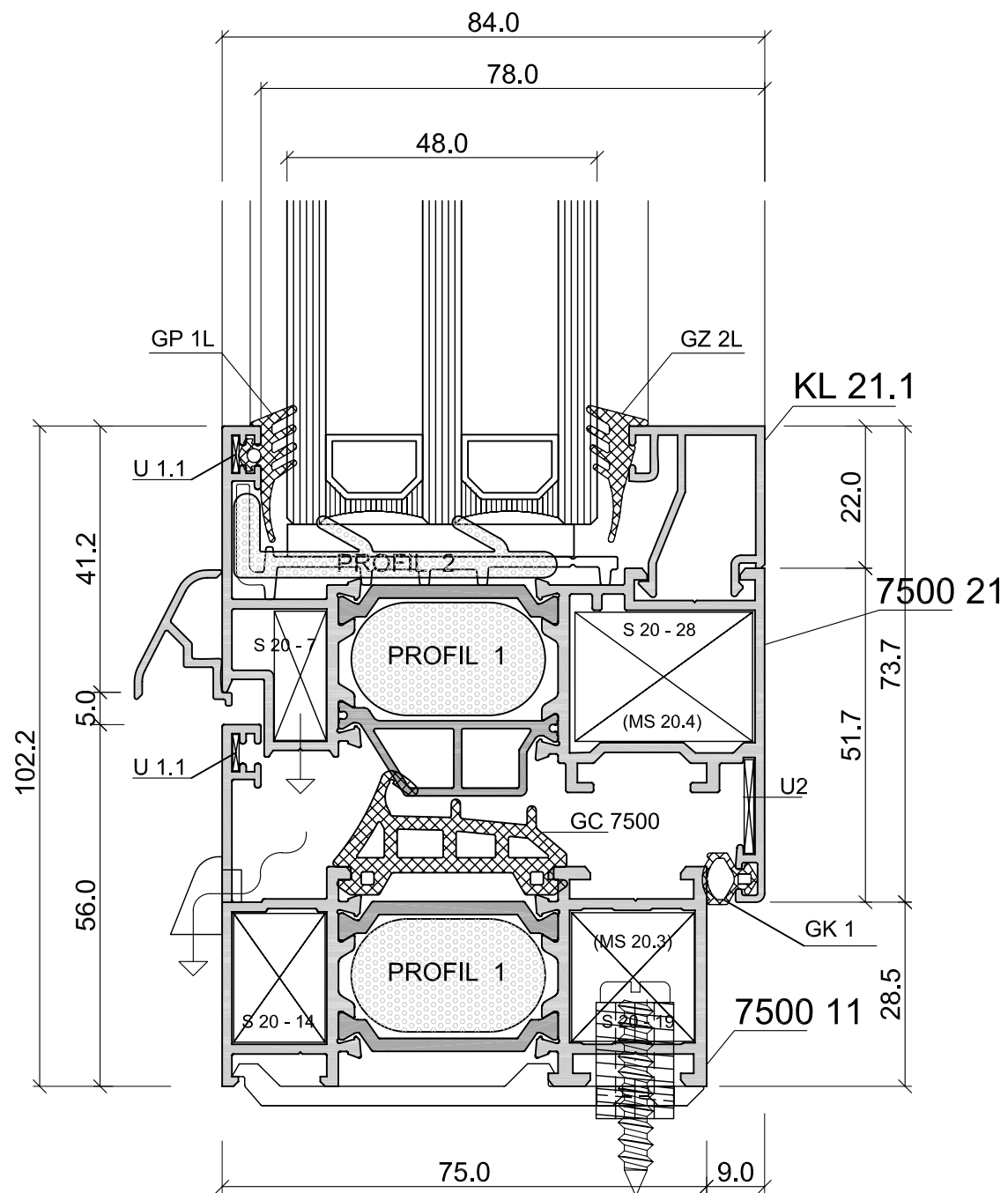
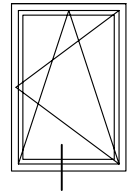
ALT 7500
TopTherm

E

2



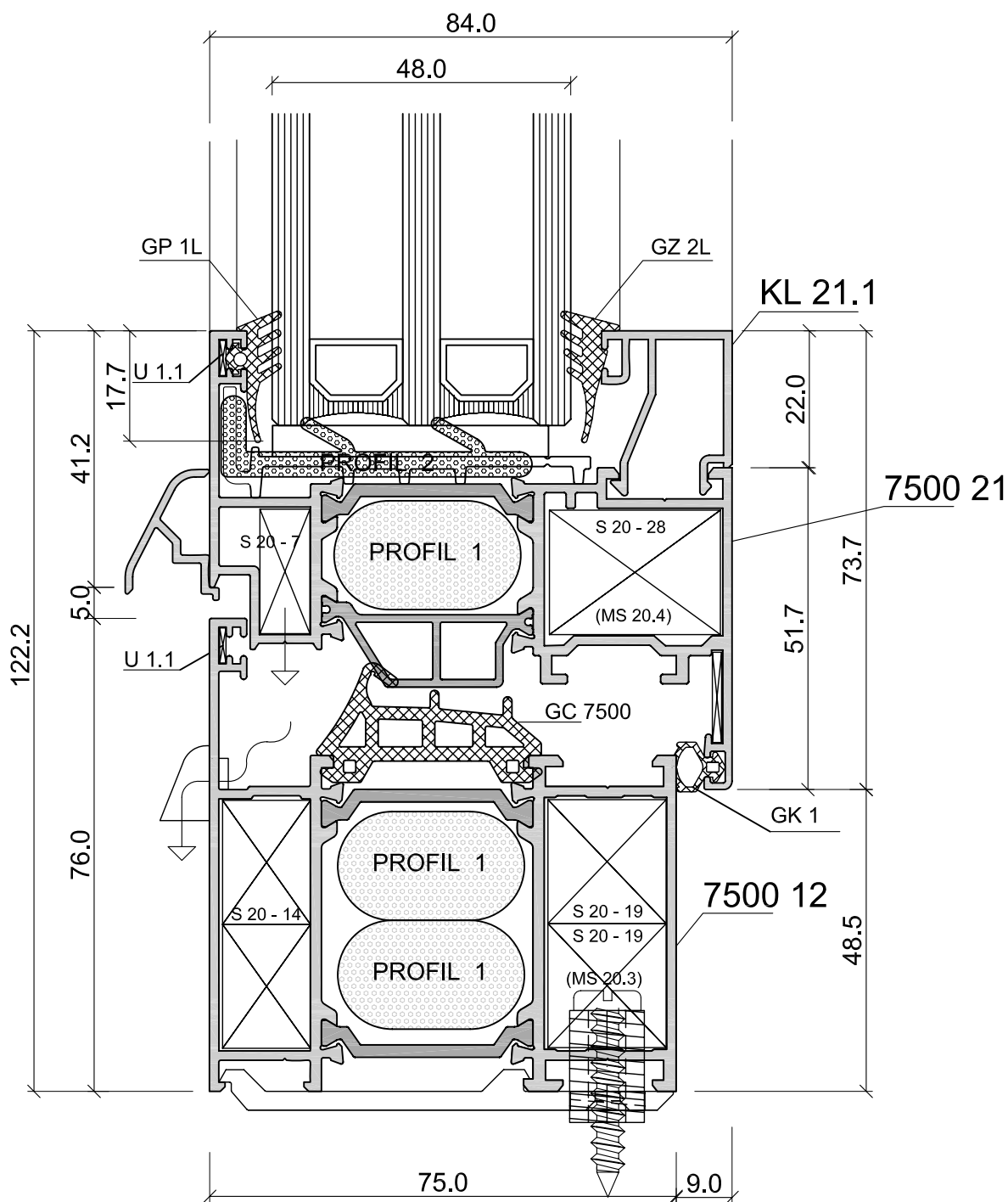
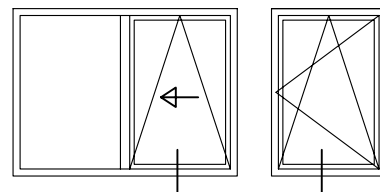
3



ALT 7500
TopTherm

E

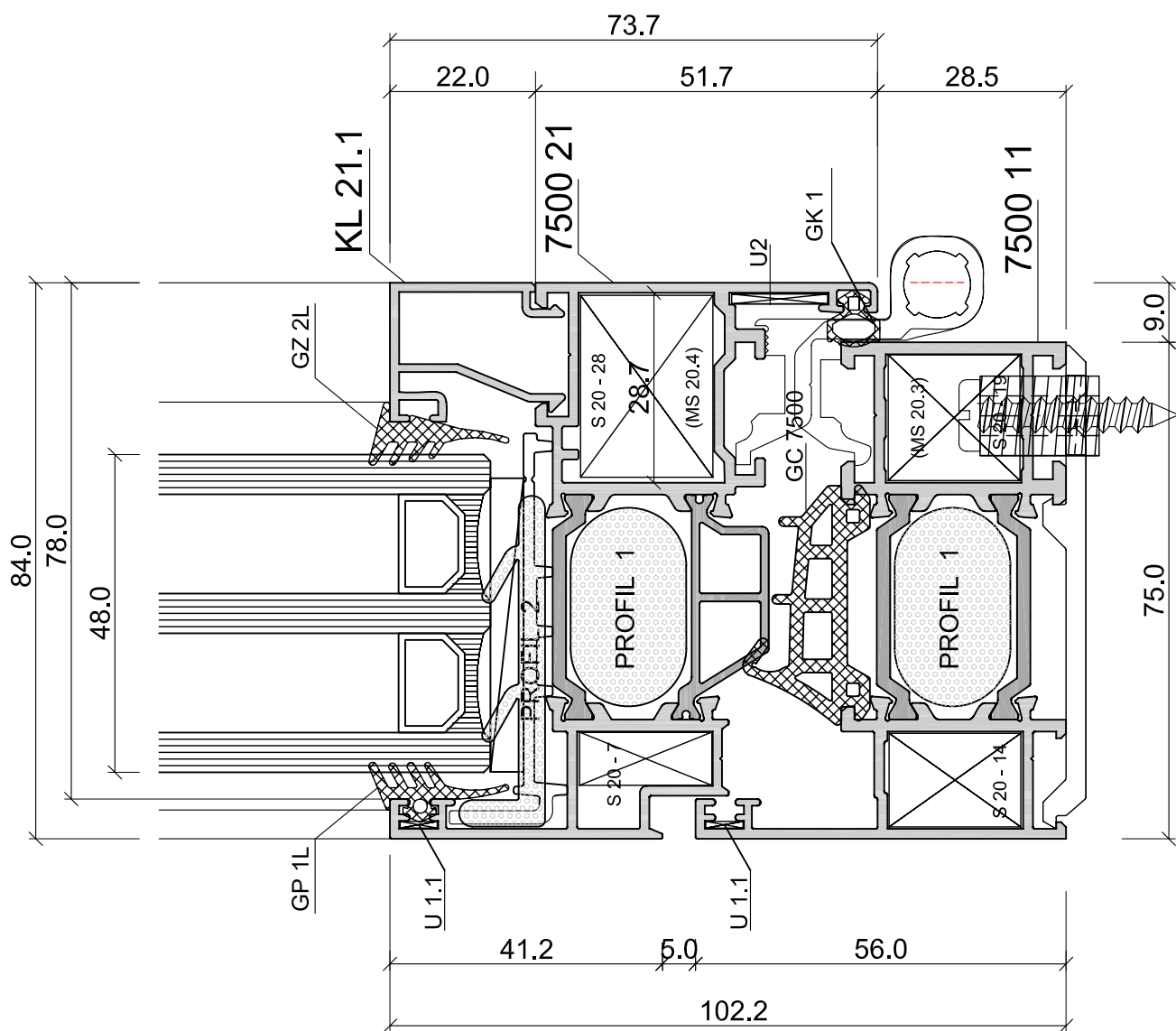
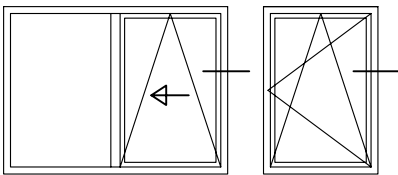
4



ALT 7500
TopTherm

E

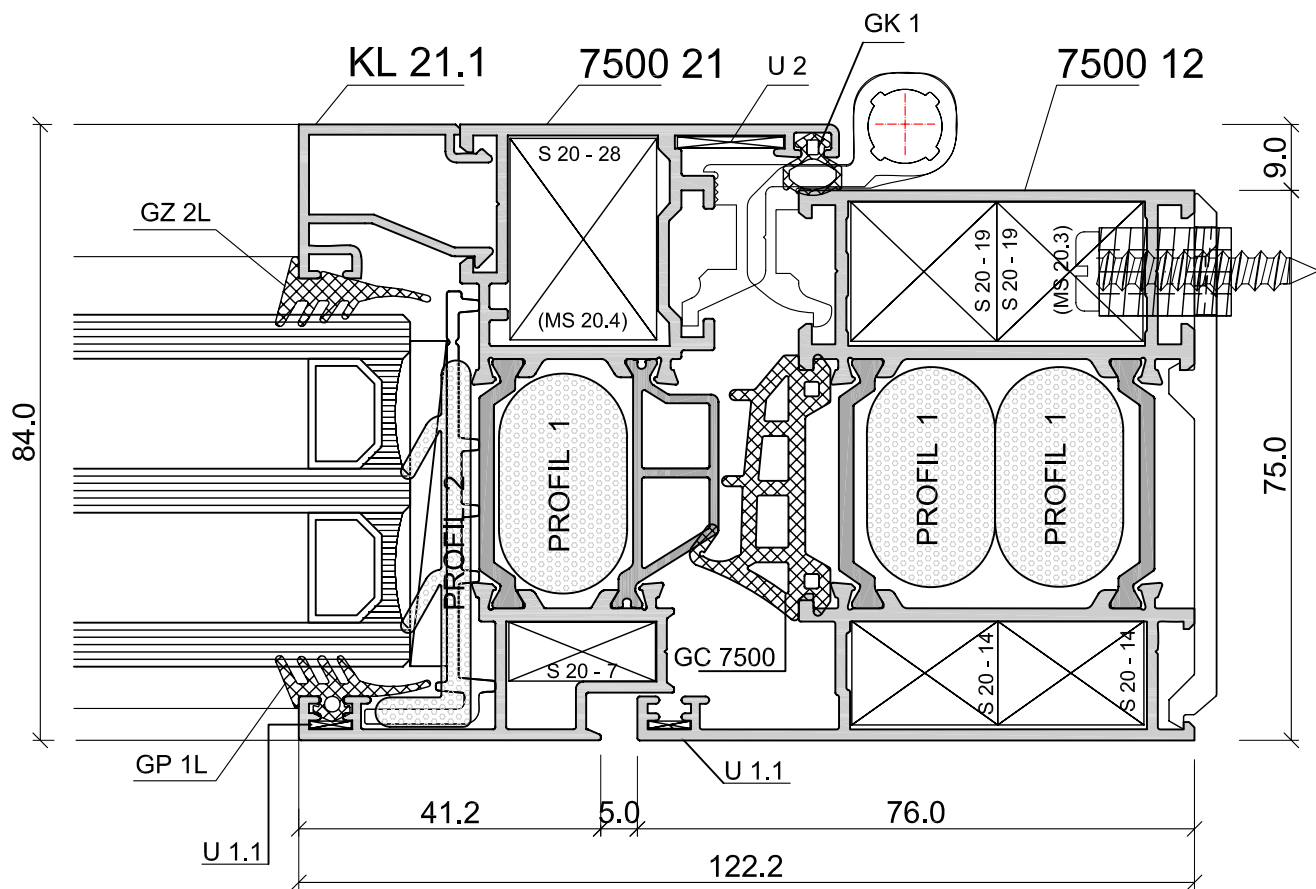
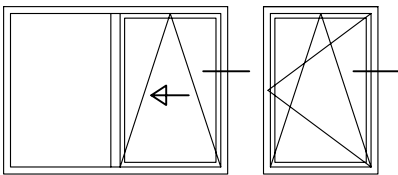
5



ALT 7500
TopTherm

E

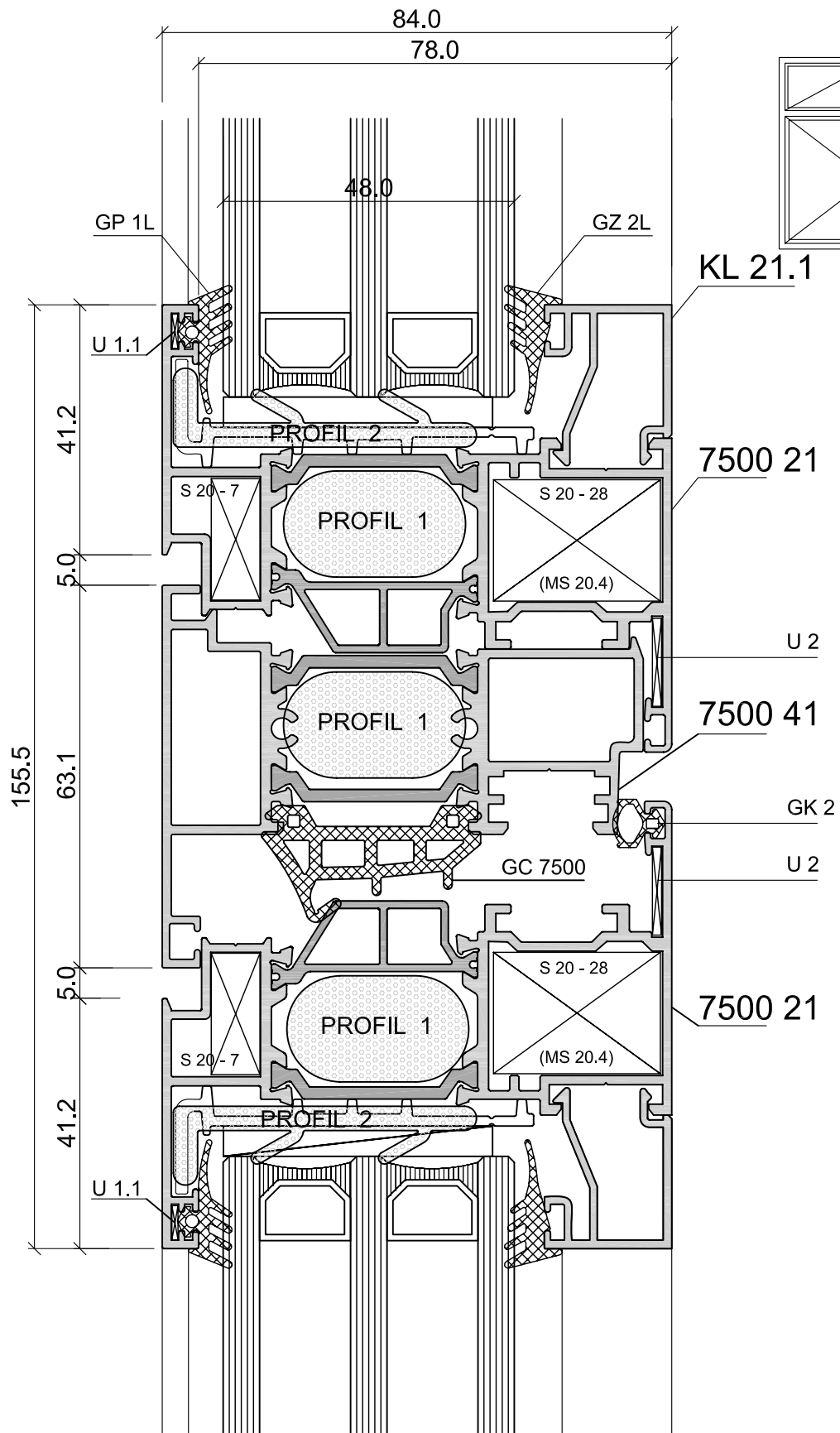
6



ALT 7500
TopTherm

E

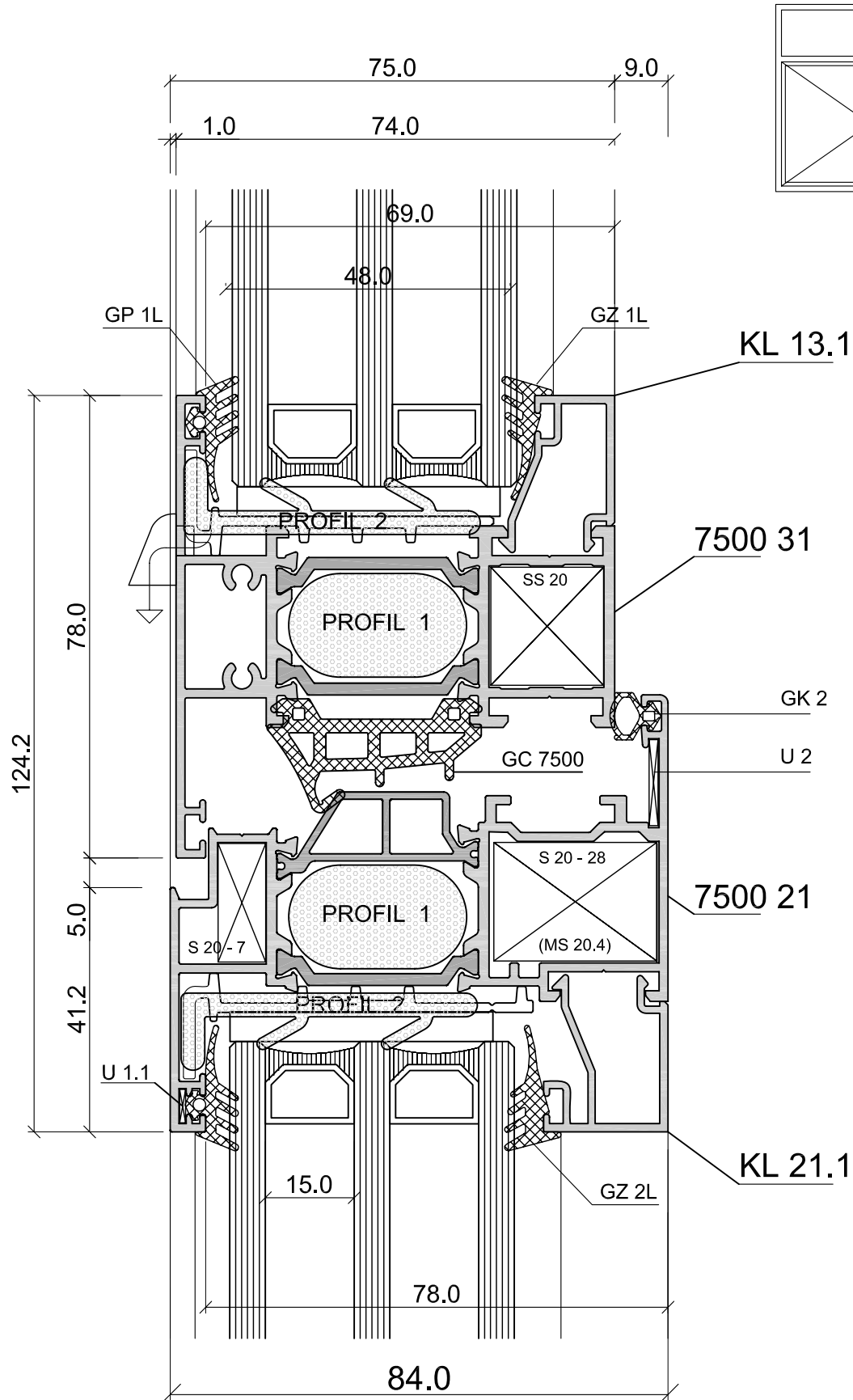
7



ALT 7500
TopTherm

E

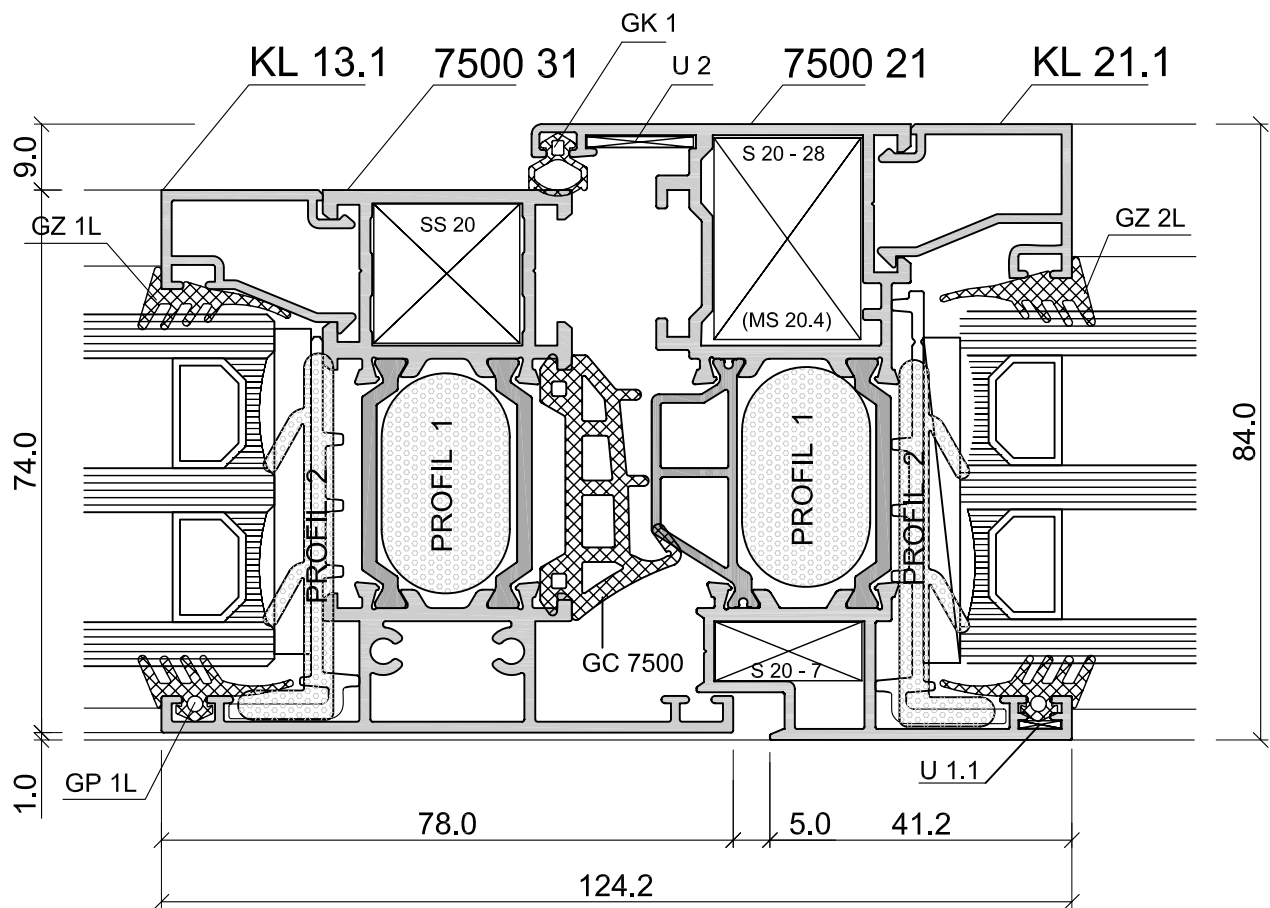
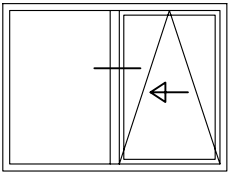
8



ALT 7500
TopTherm

E

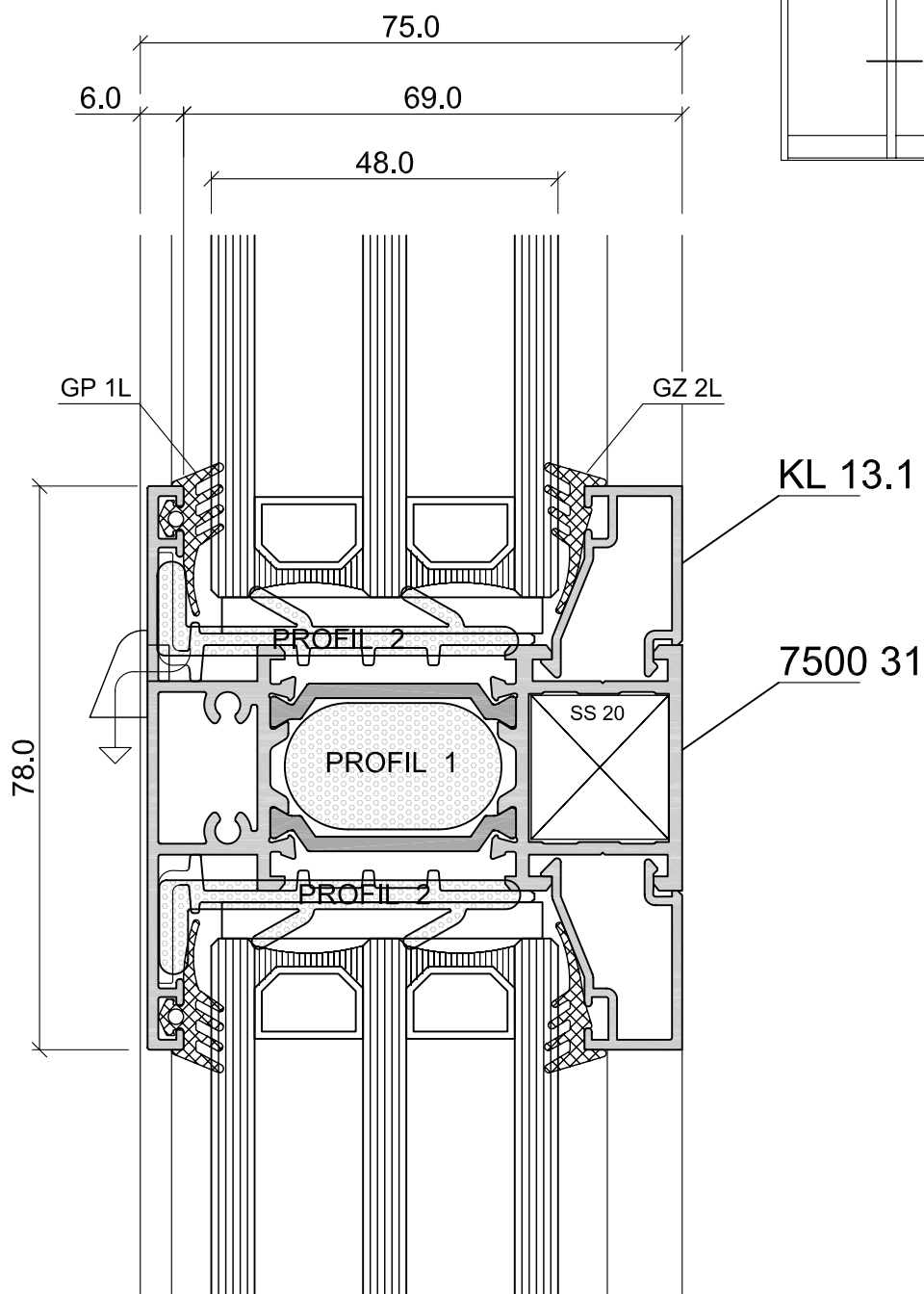
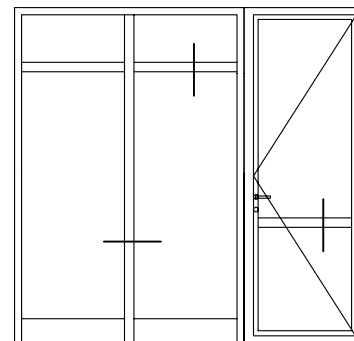
9



ALT 7500
TopTherm

E

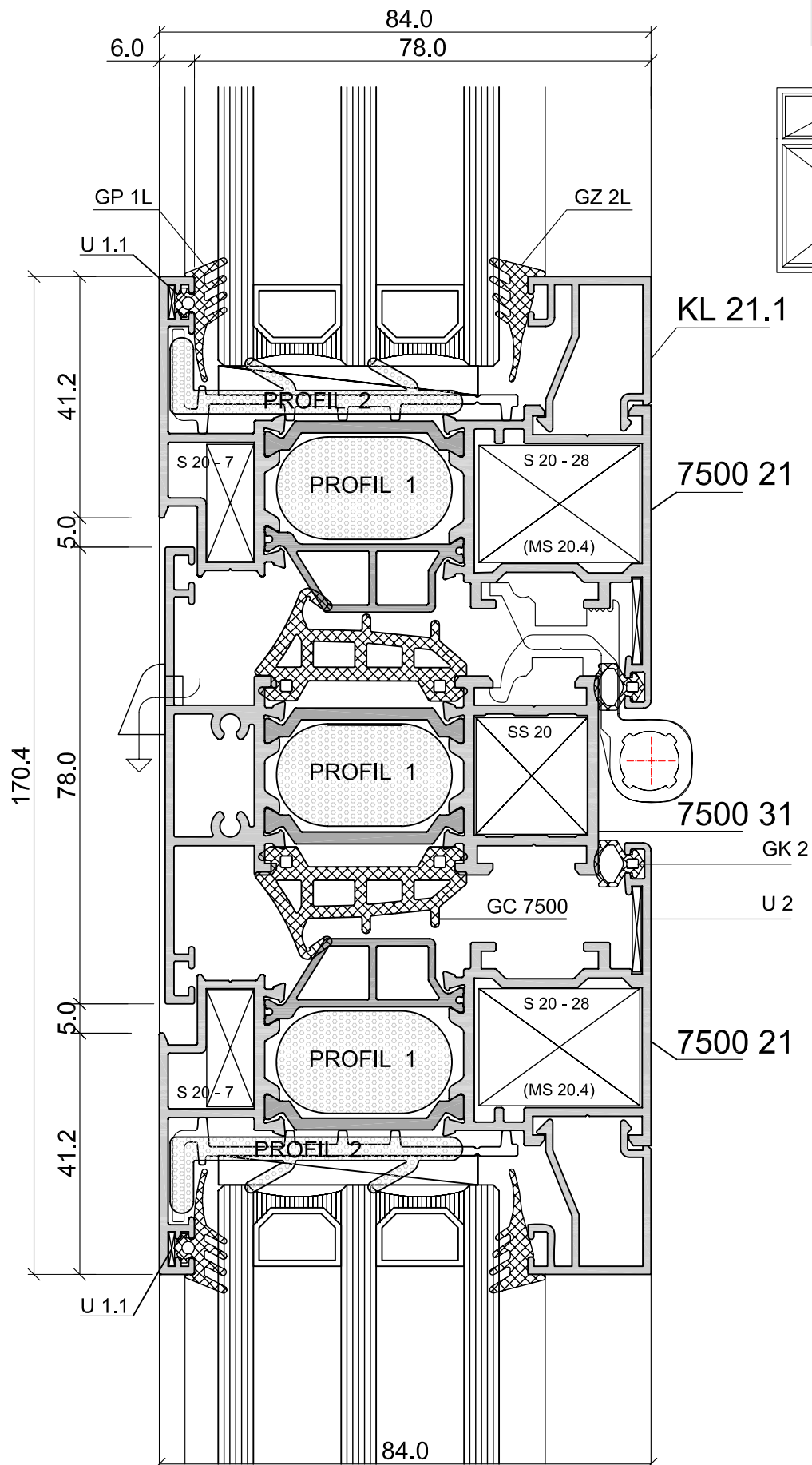
10



ALT 7500
TopTherm

E

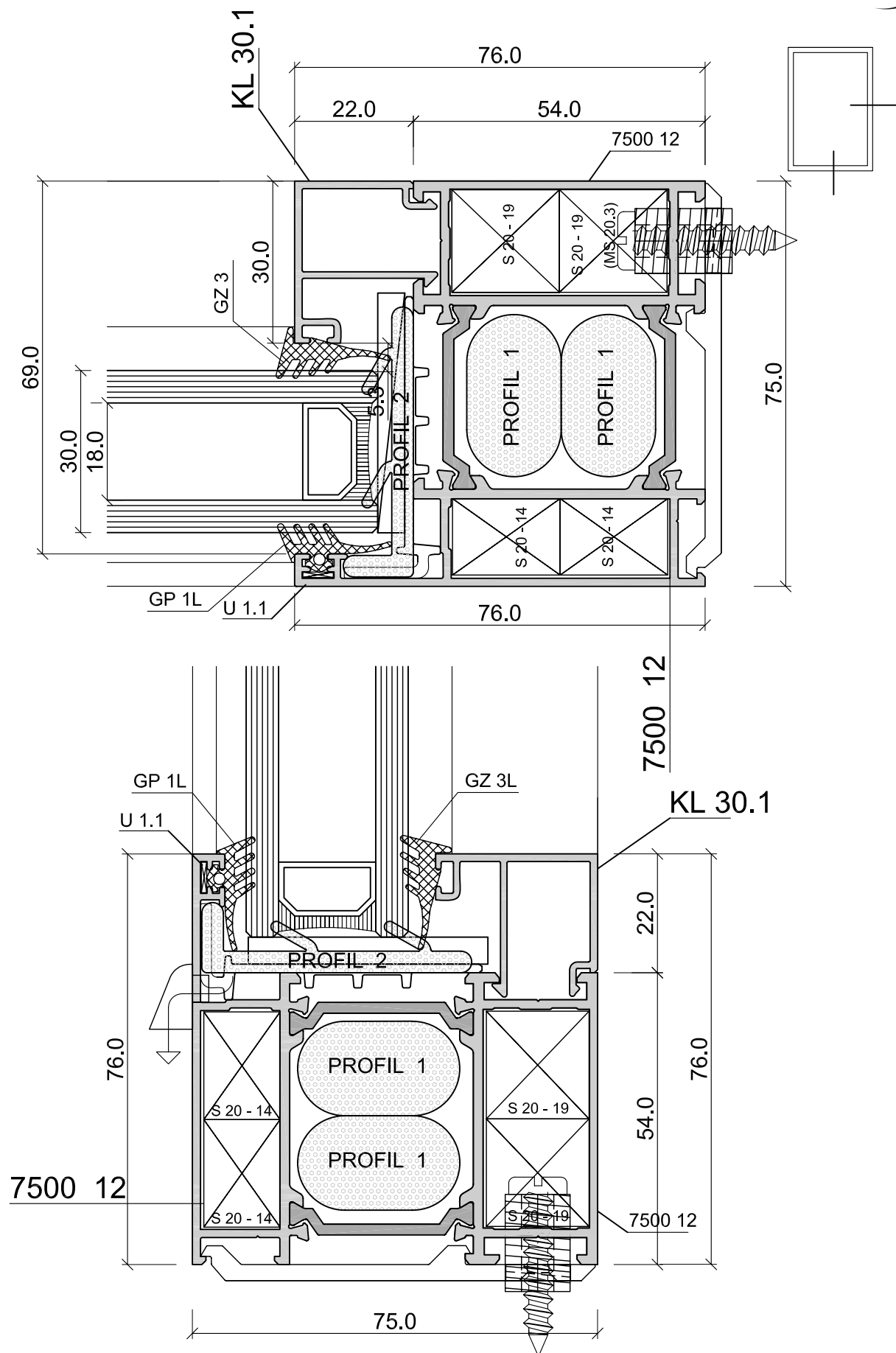
11



ALT 7500
TopTherm

E

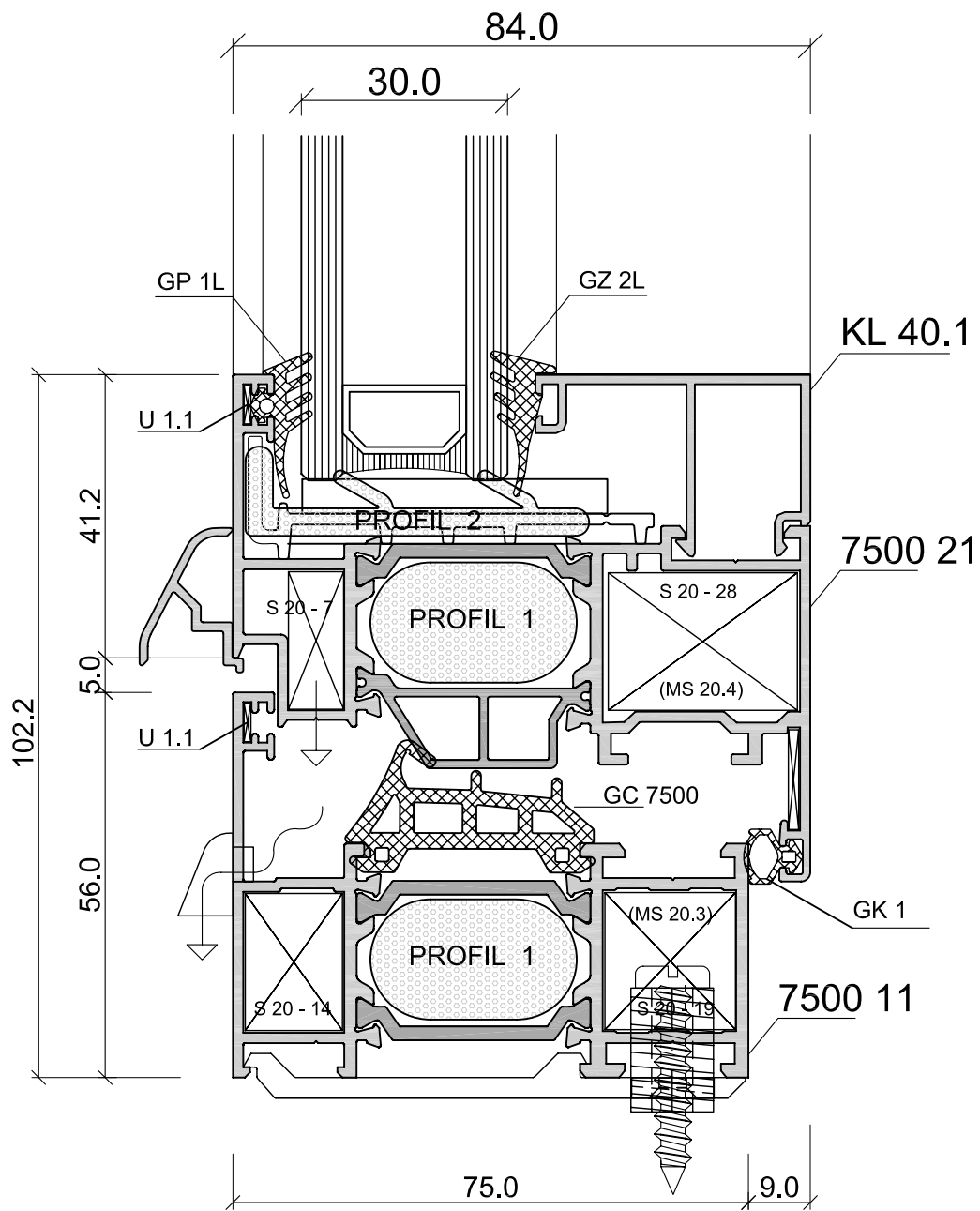
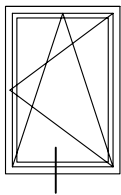
12



ALT 7500
TopTherm

E

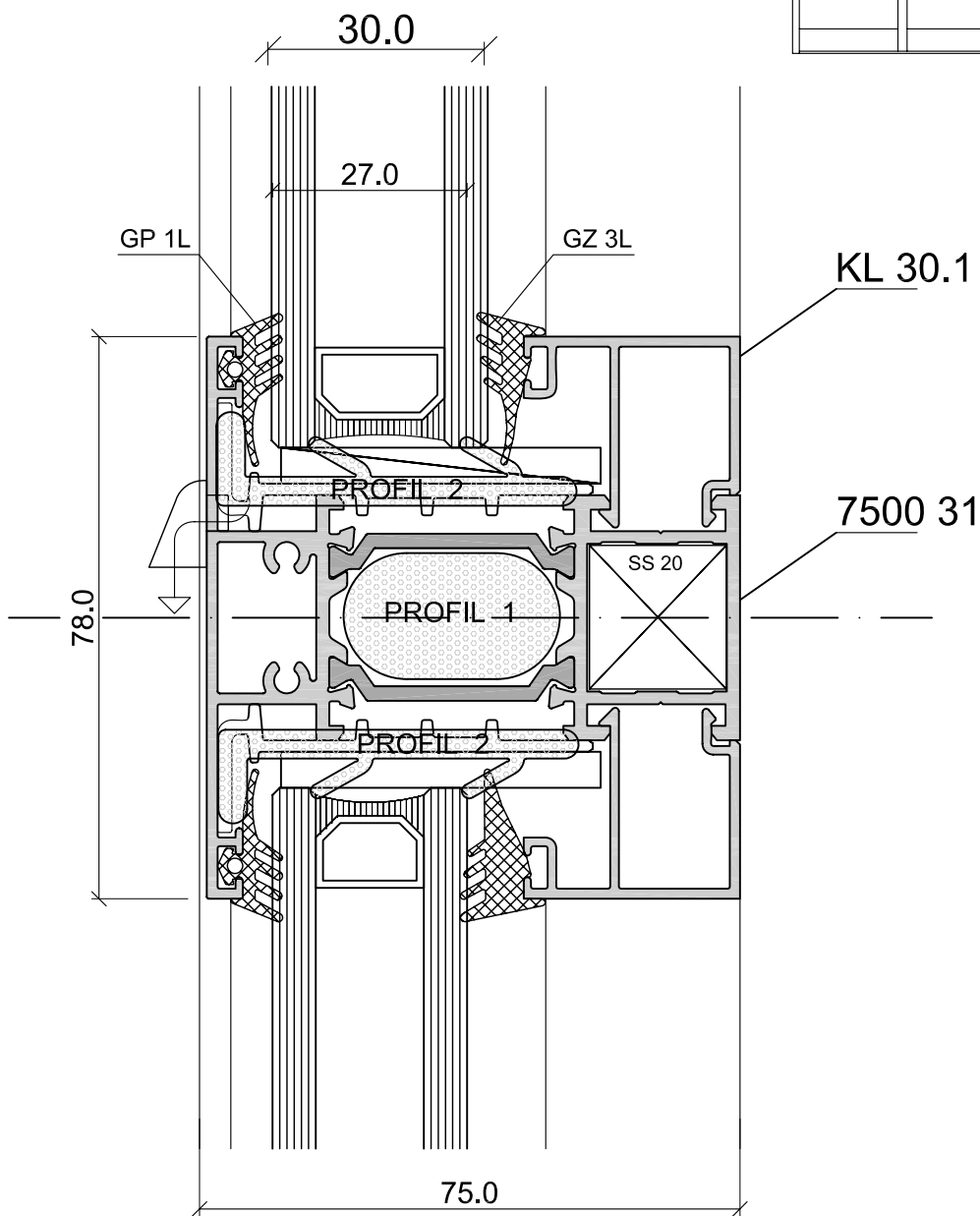
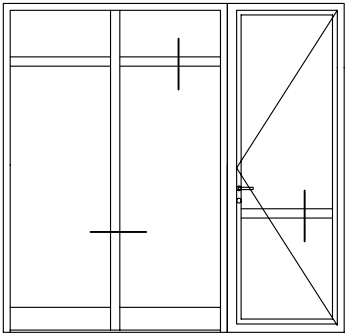
13



ALT 7500
TopTherm

E

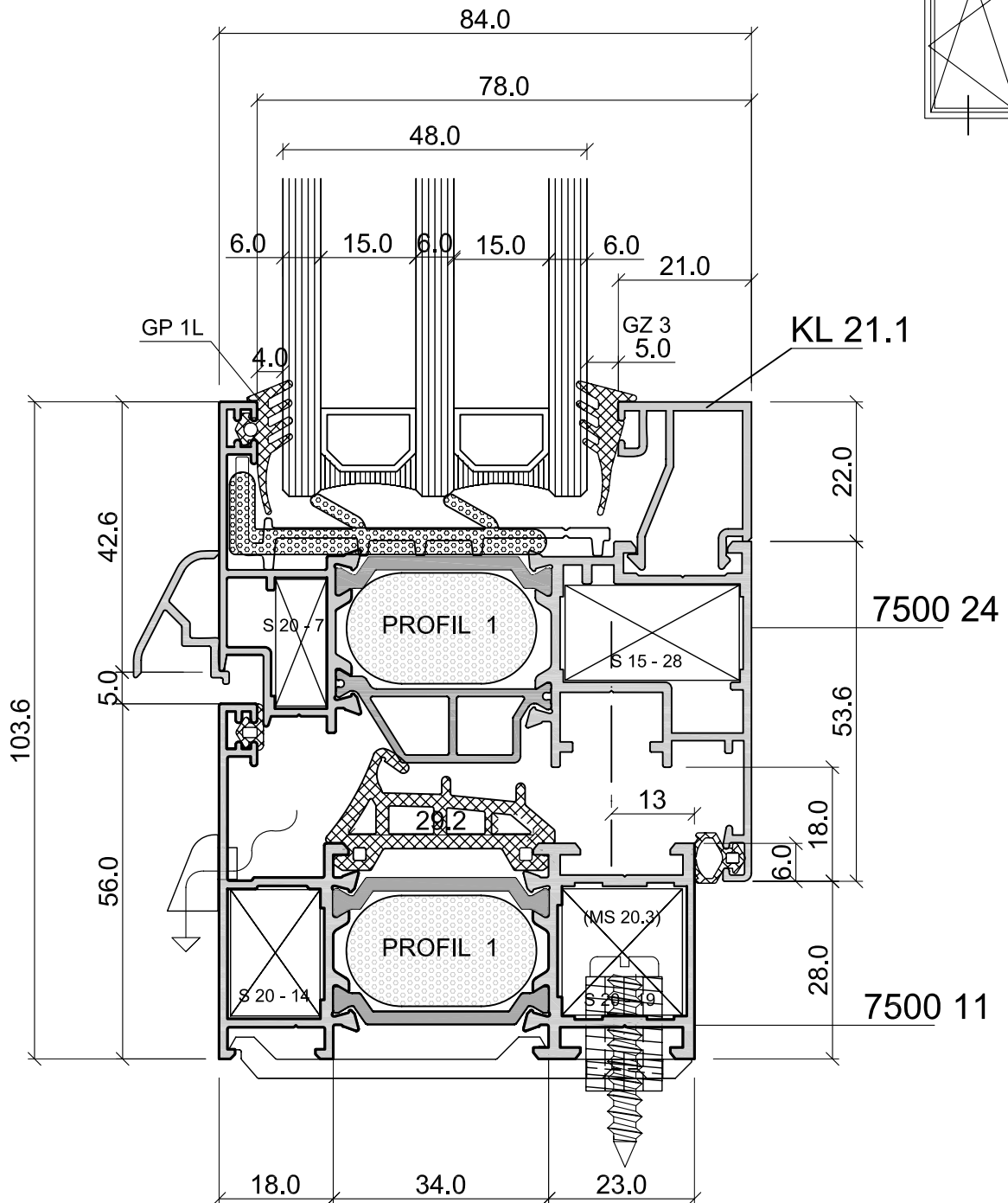
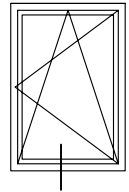
14



ALT 7500
TopTherm

E

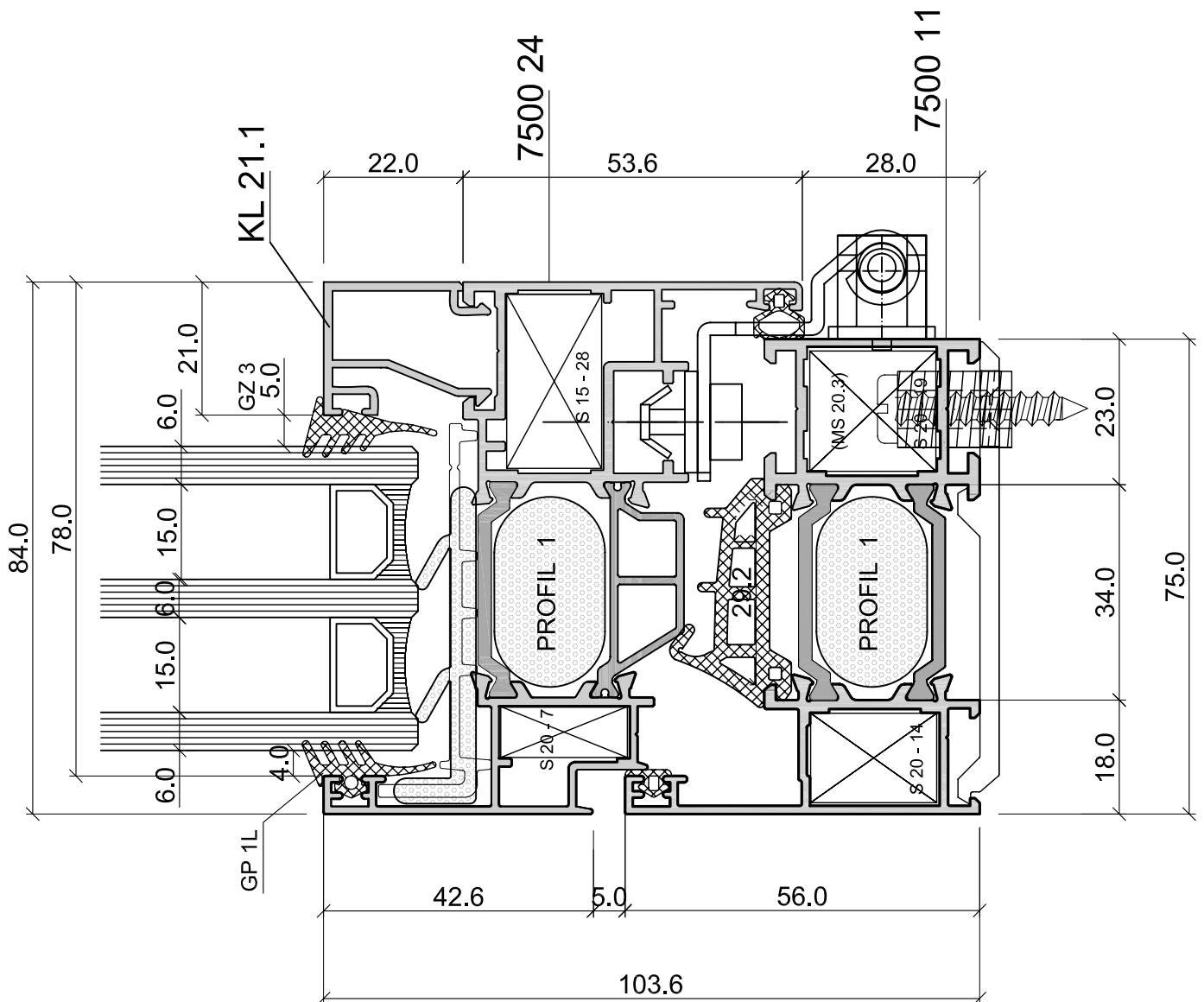
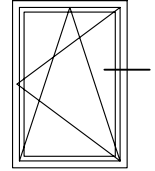
15



ALT 7500
TopTherm

E

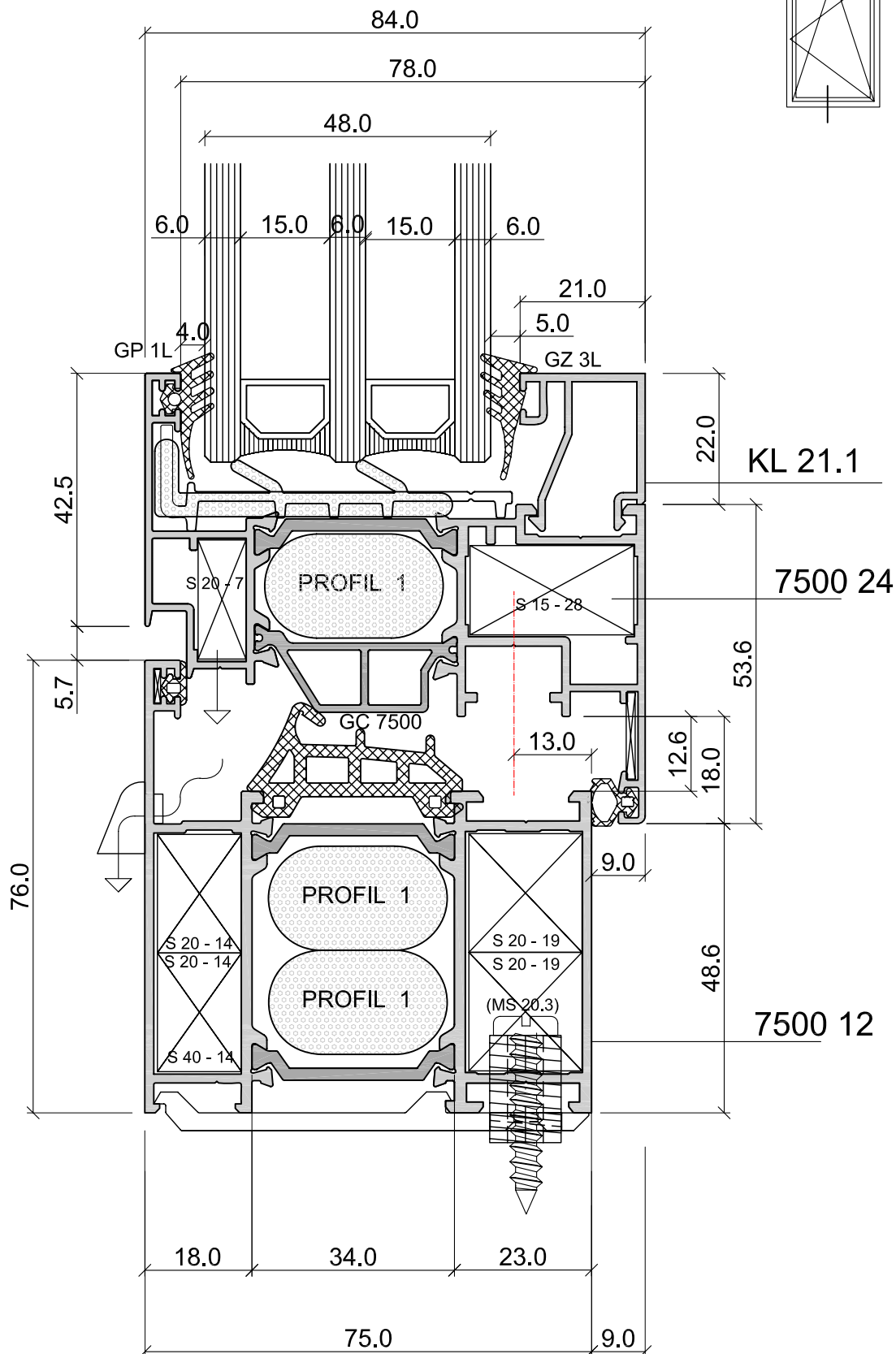
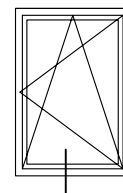
16

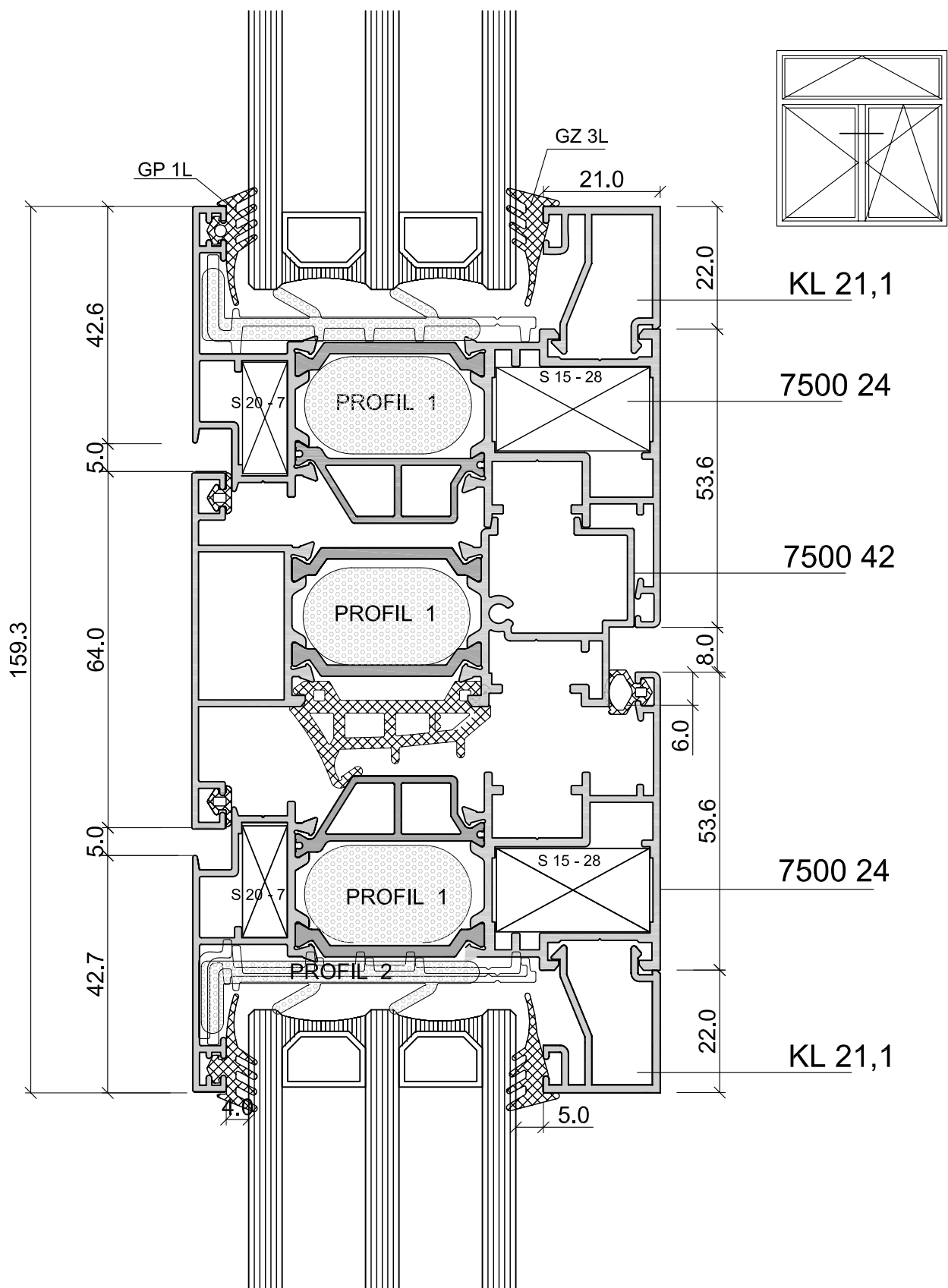


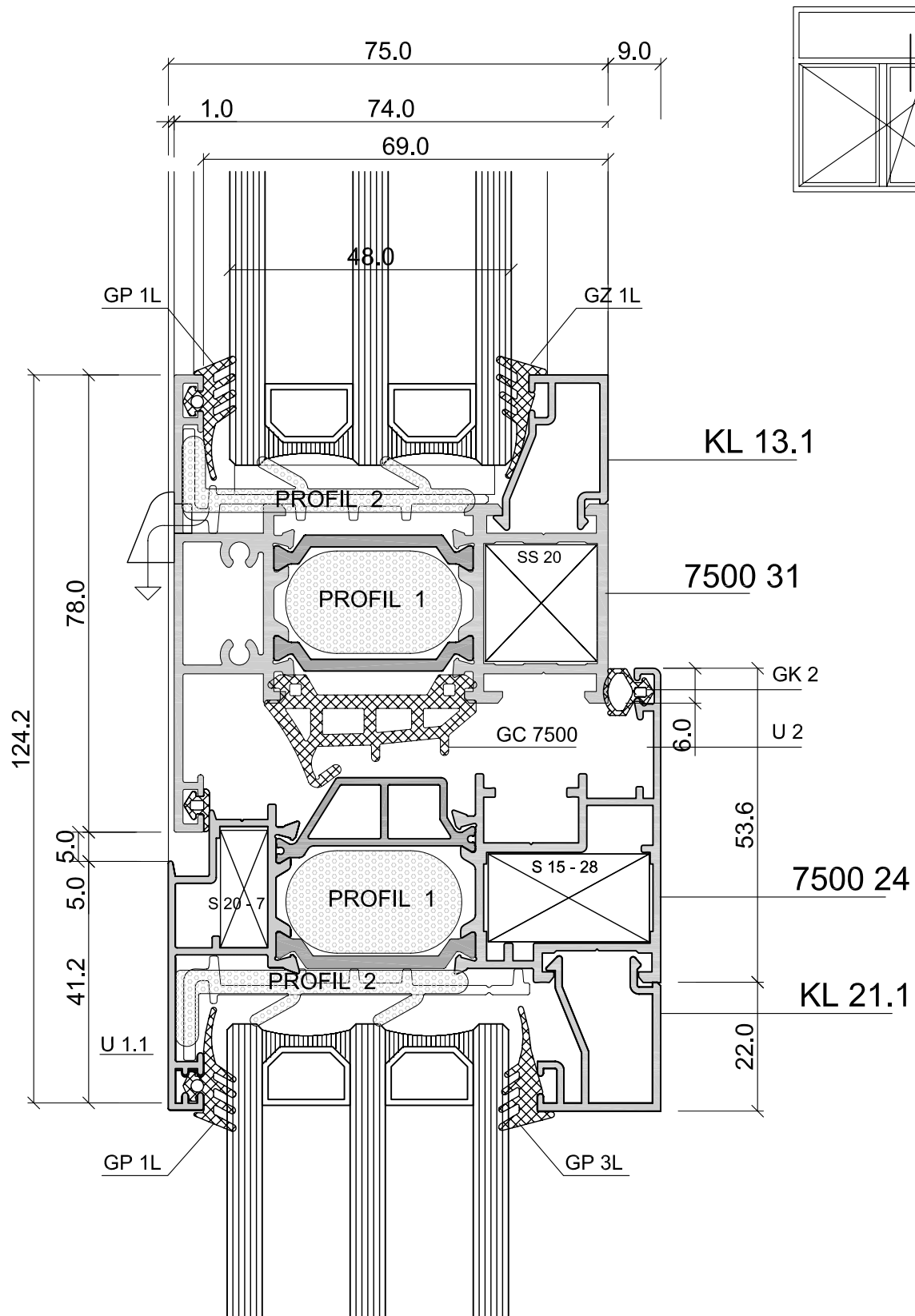
ALT 7500
TopTherm

E

17



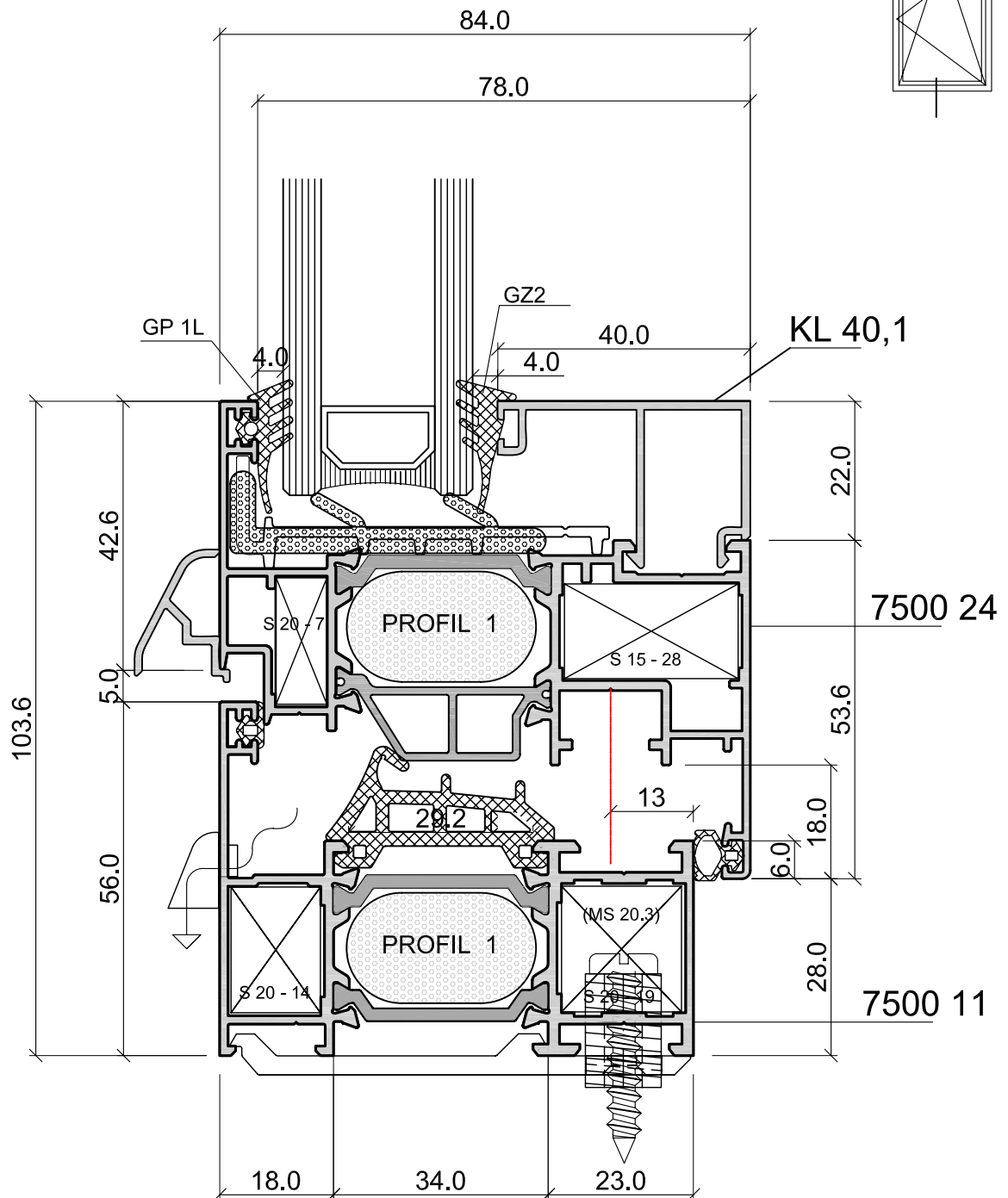
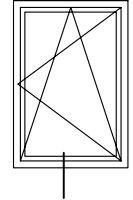




ALT 7500
TopTherm

E

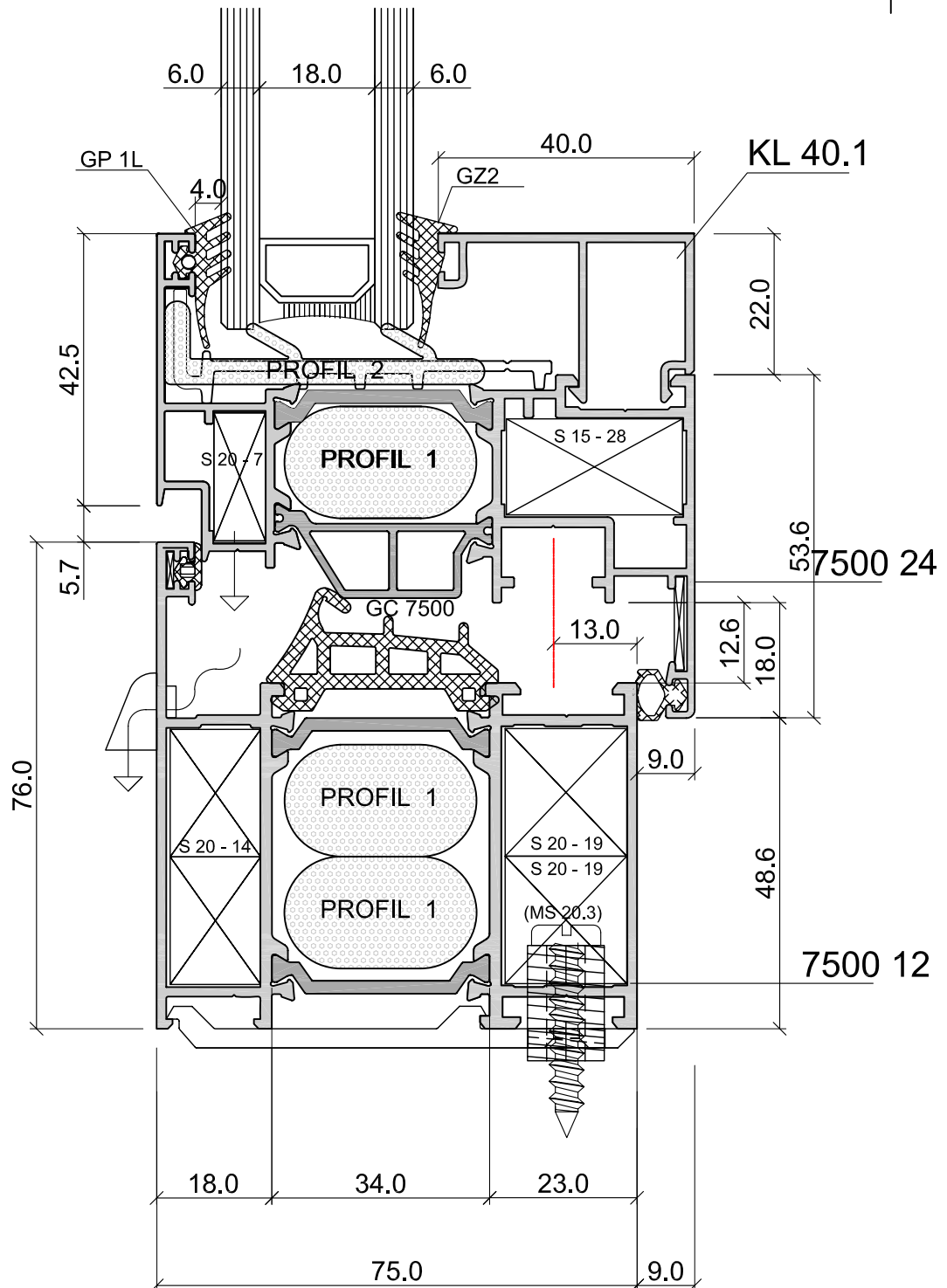
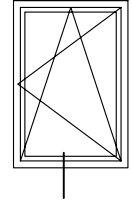
20



ALT 7500
TopTherm

E

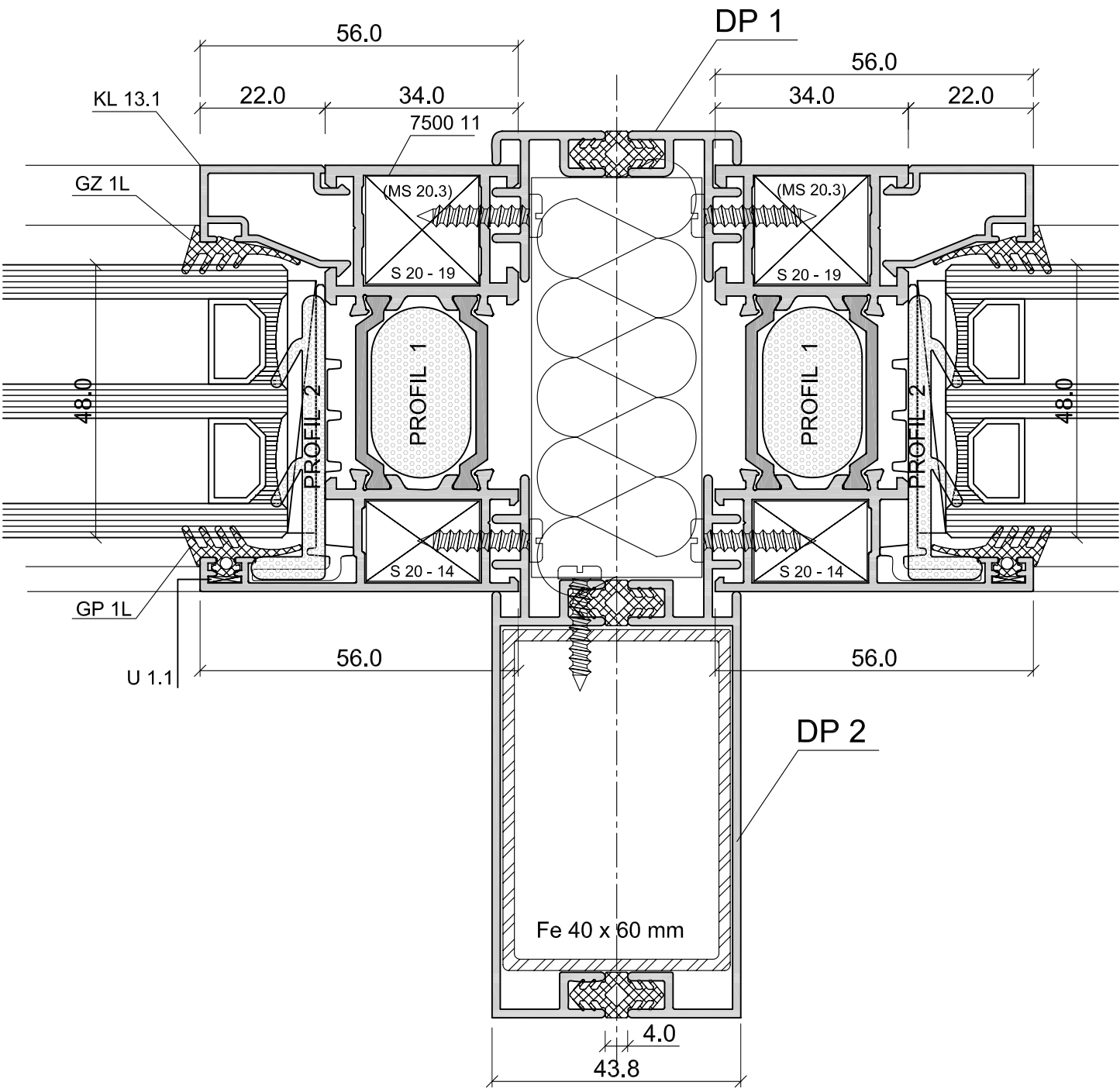
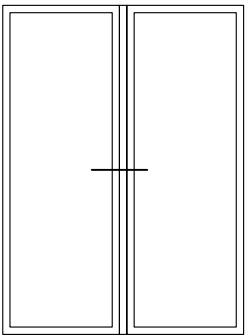
21



ALT 7500
TopTherm

E

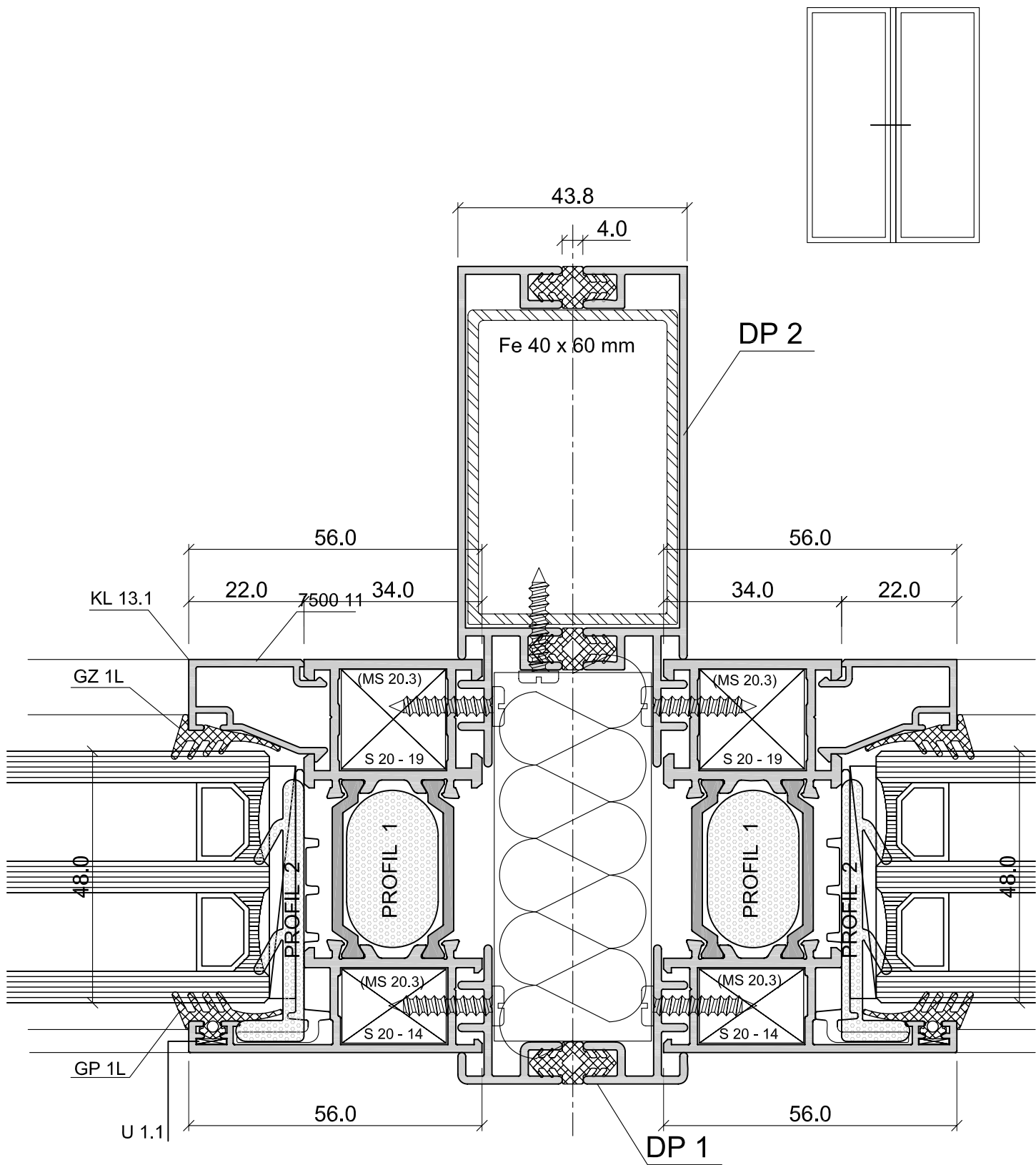
22



ALT 7500
TopTherm

E

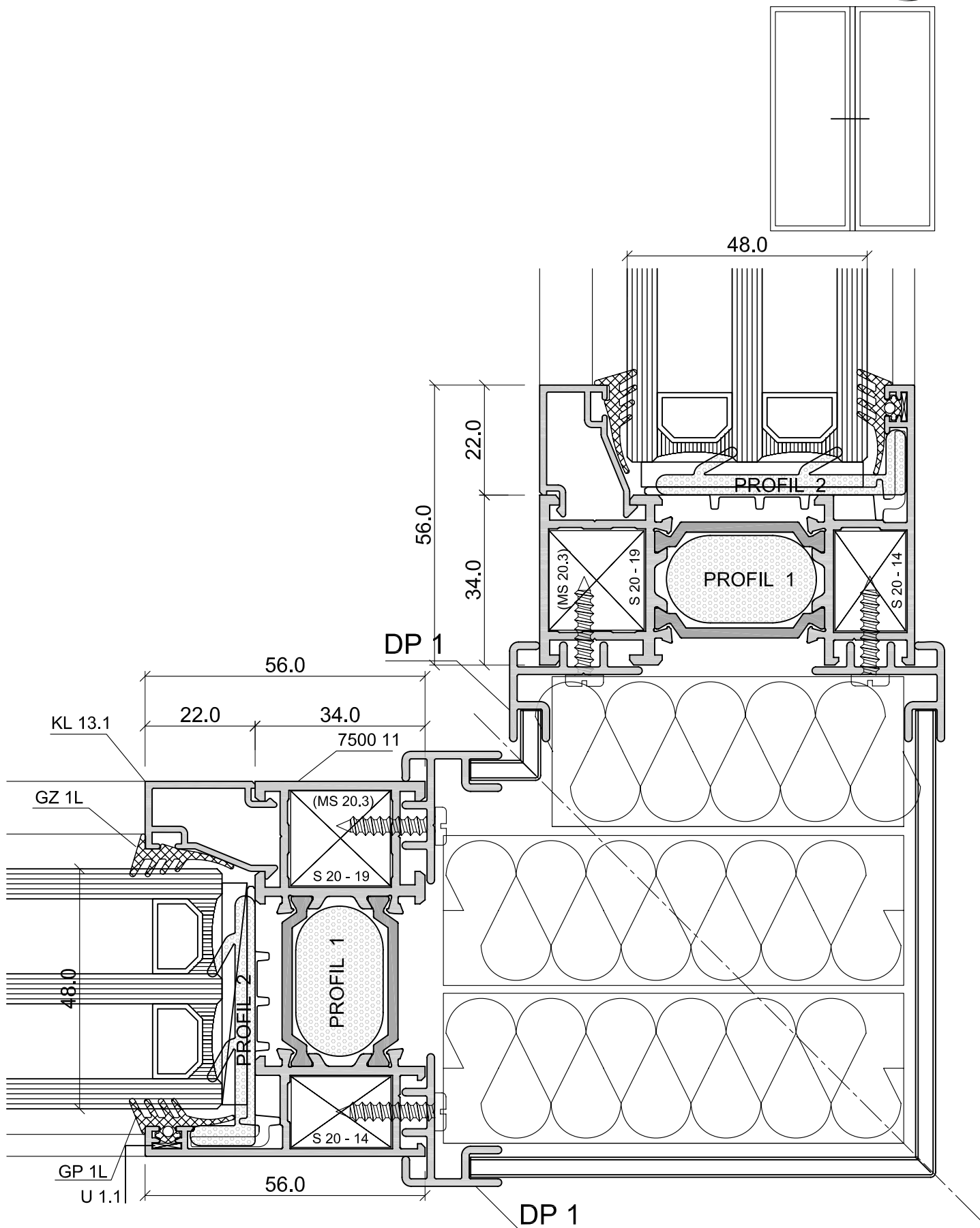
23



ALT 7500
TopTherm

E

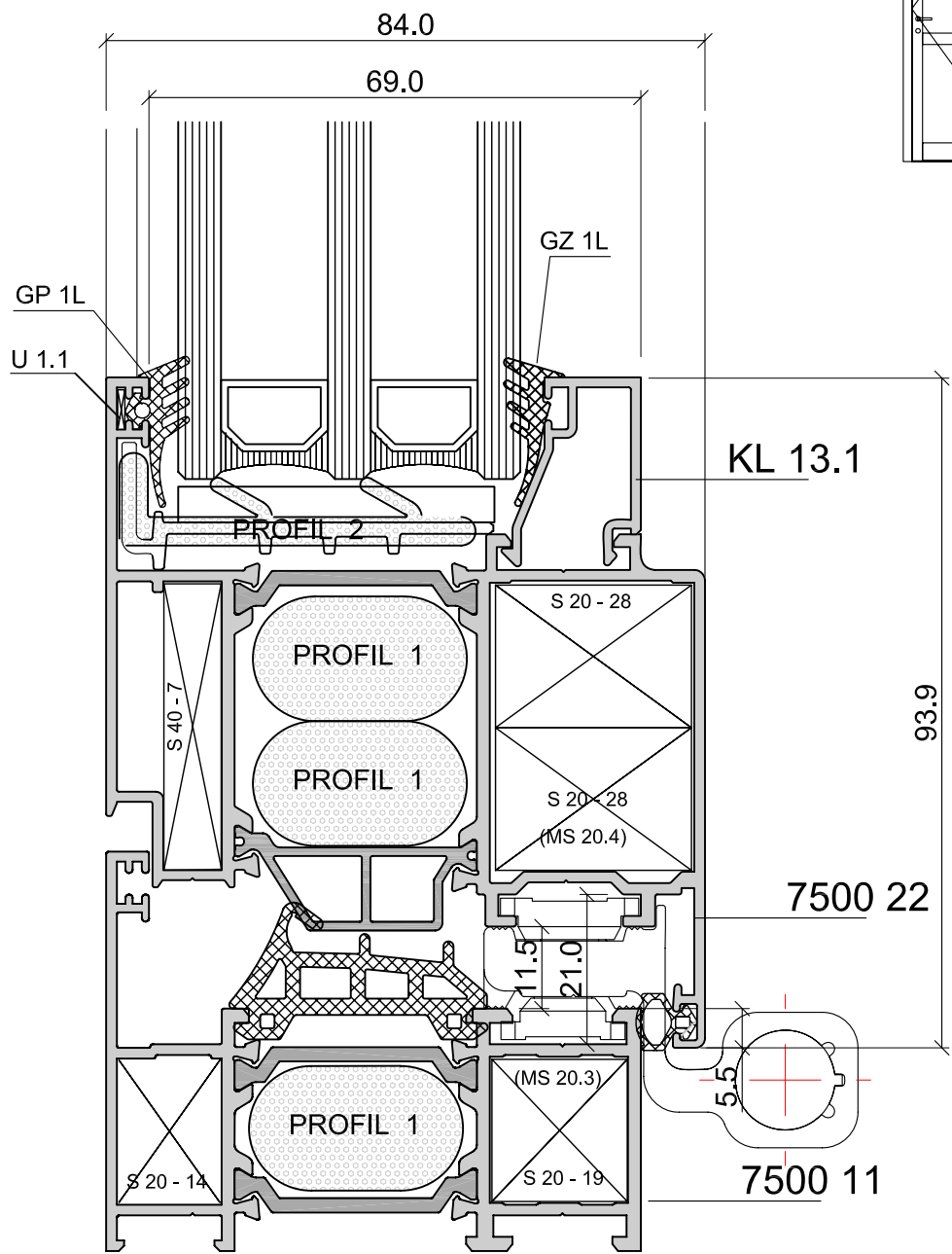
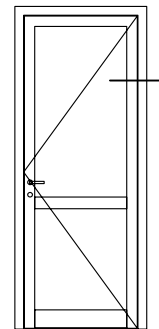
24



ALT 7500
TopTherm

E

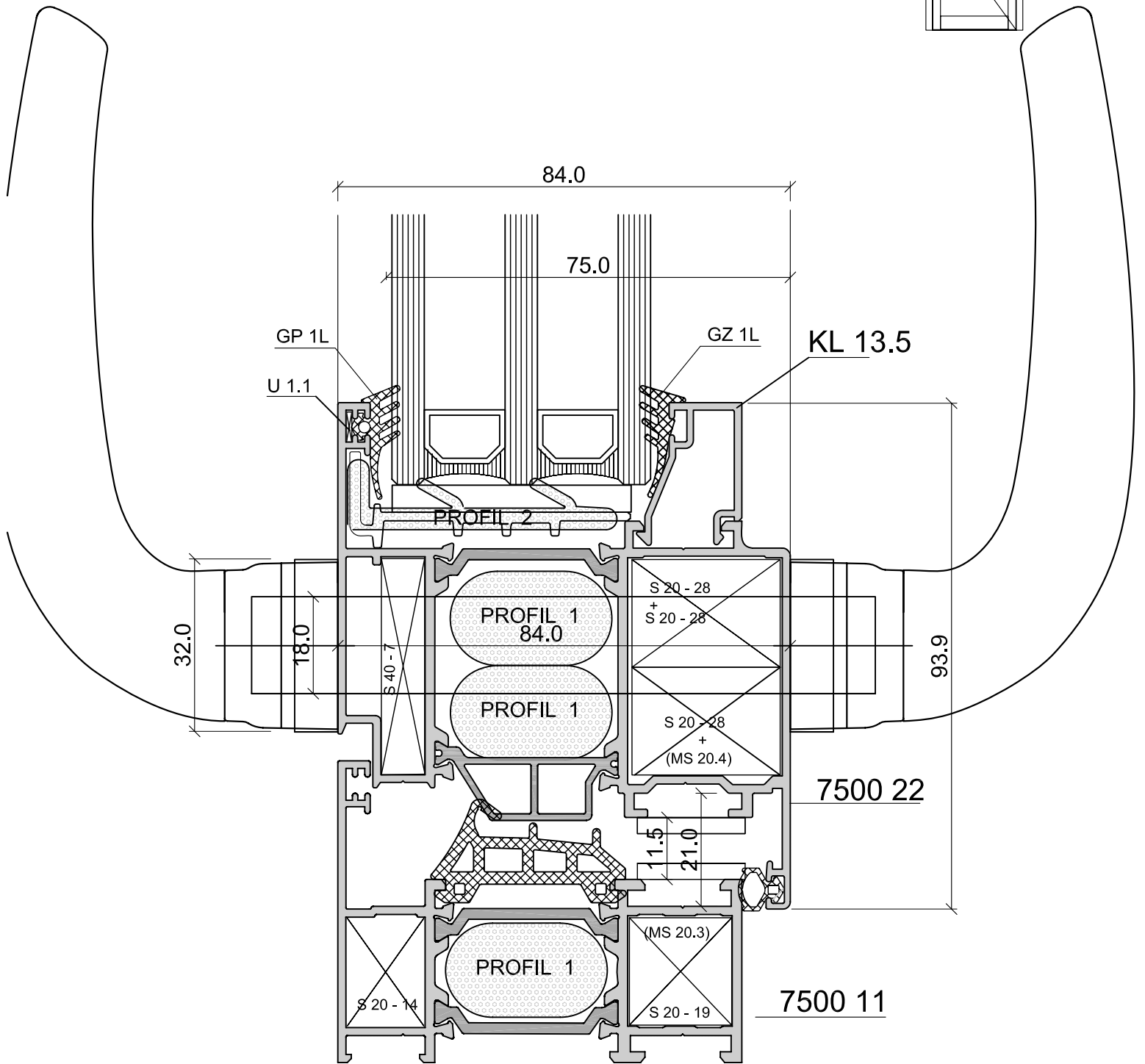
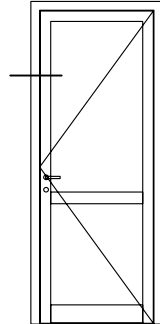
25



ALT 7500
TopTherm

E

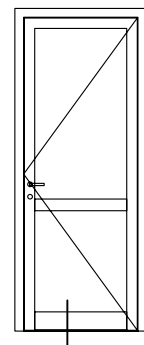
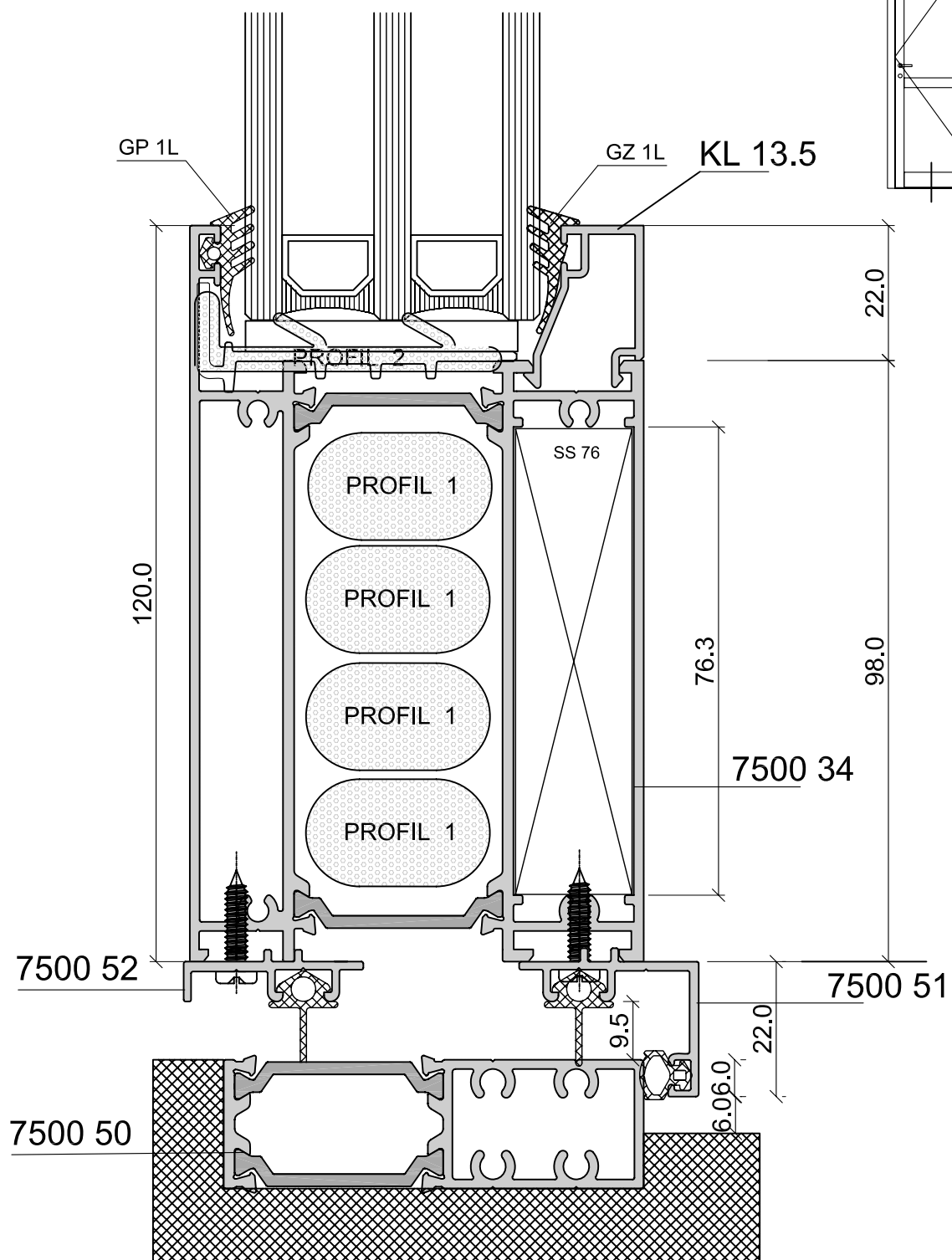
26



ALT 7500
TopTherm

E

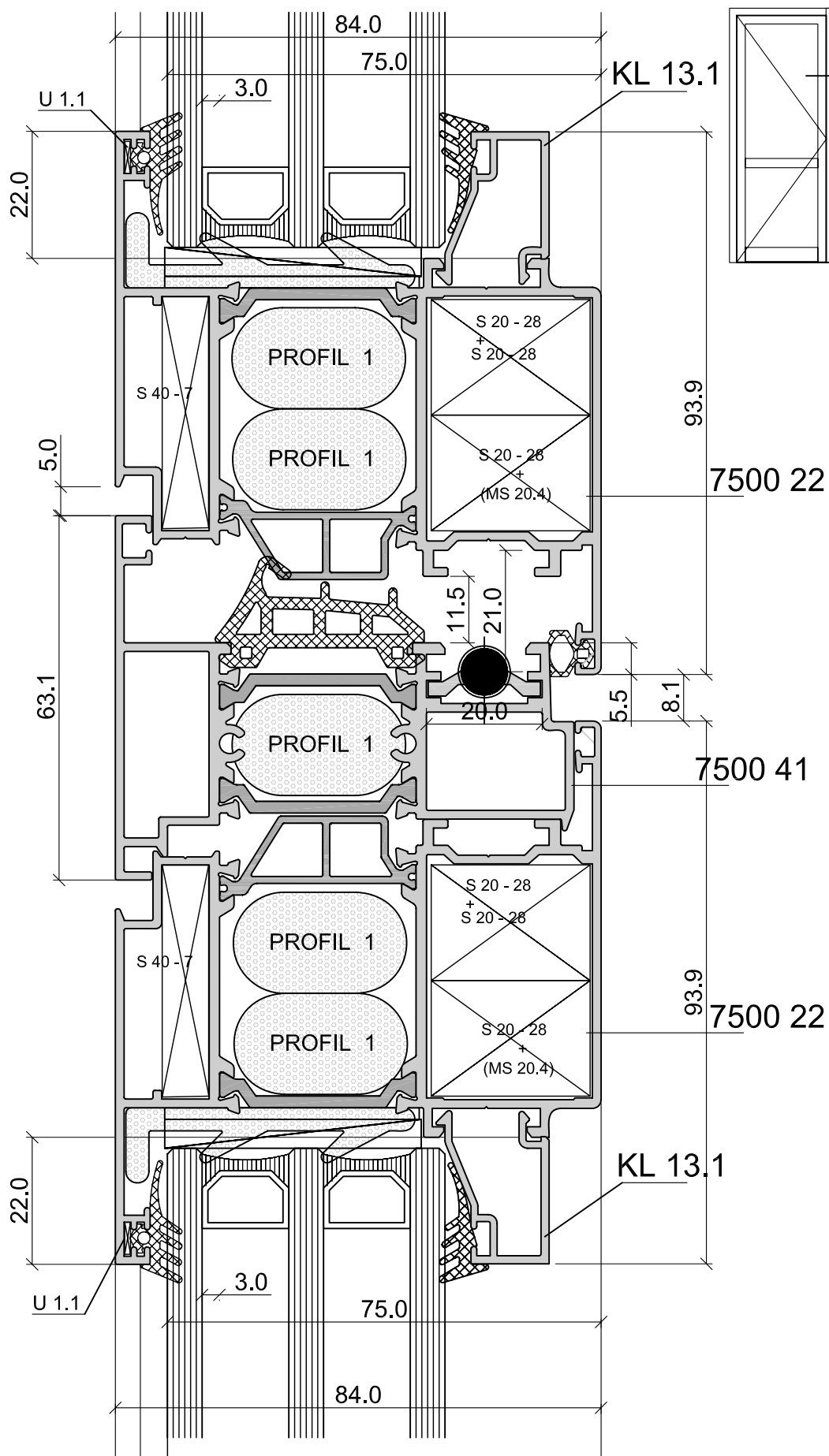
27



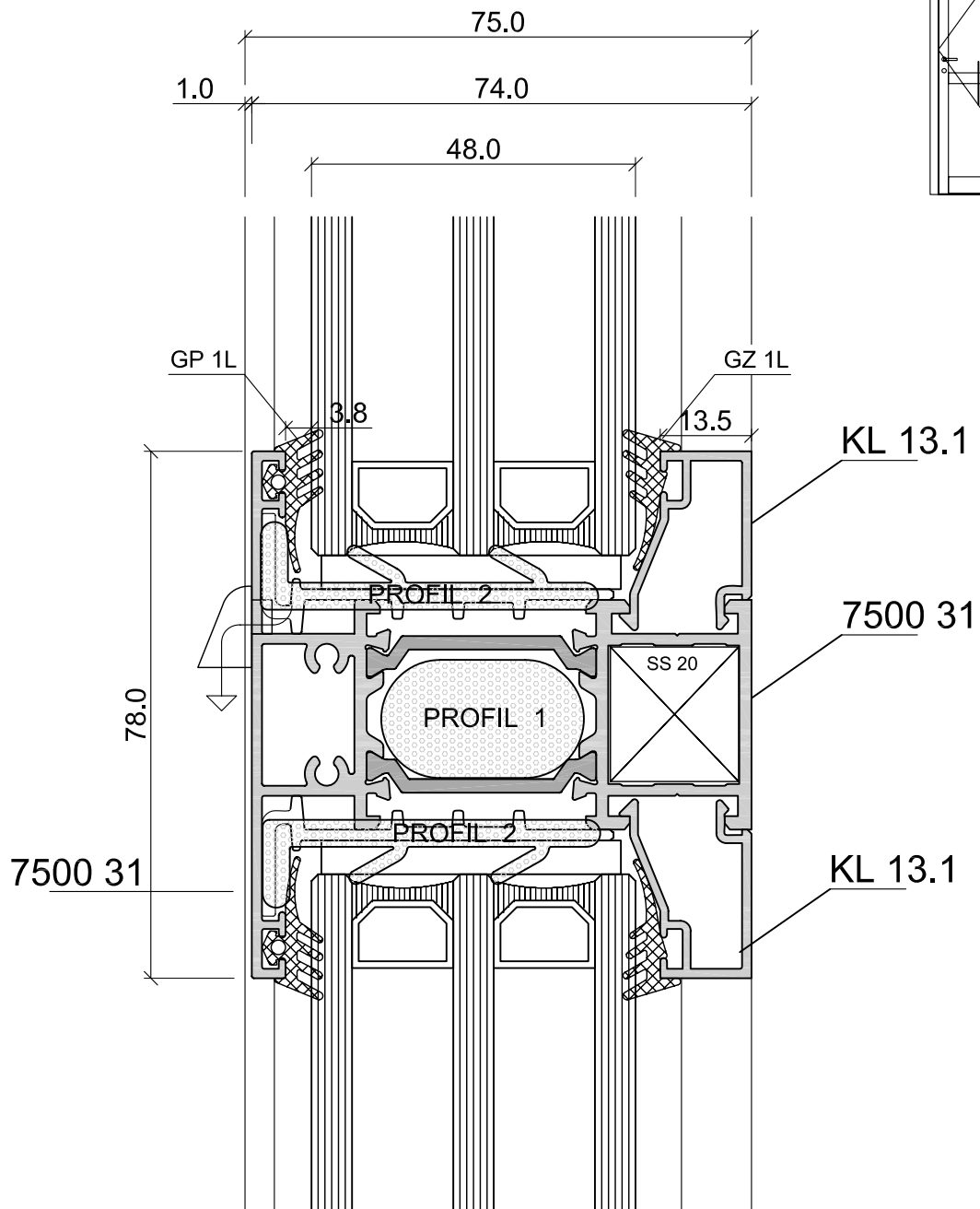
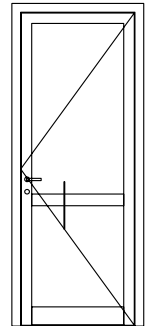
ALT 7500
TopTherm

E

28



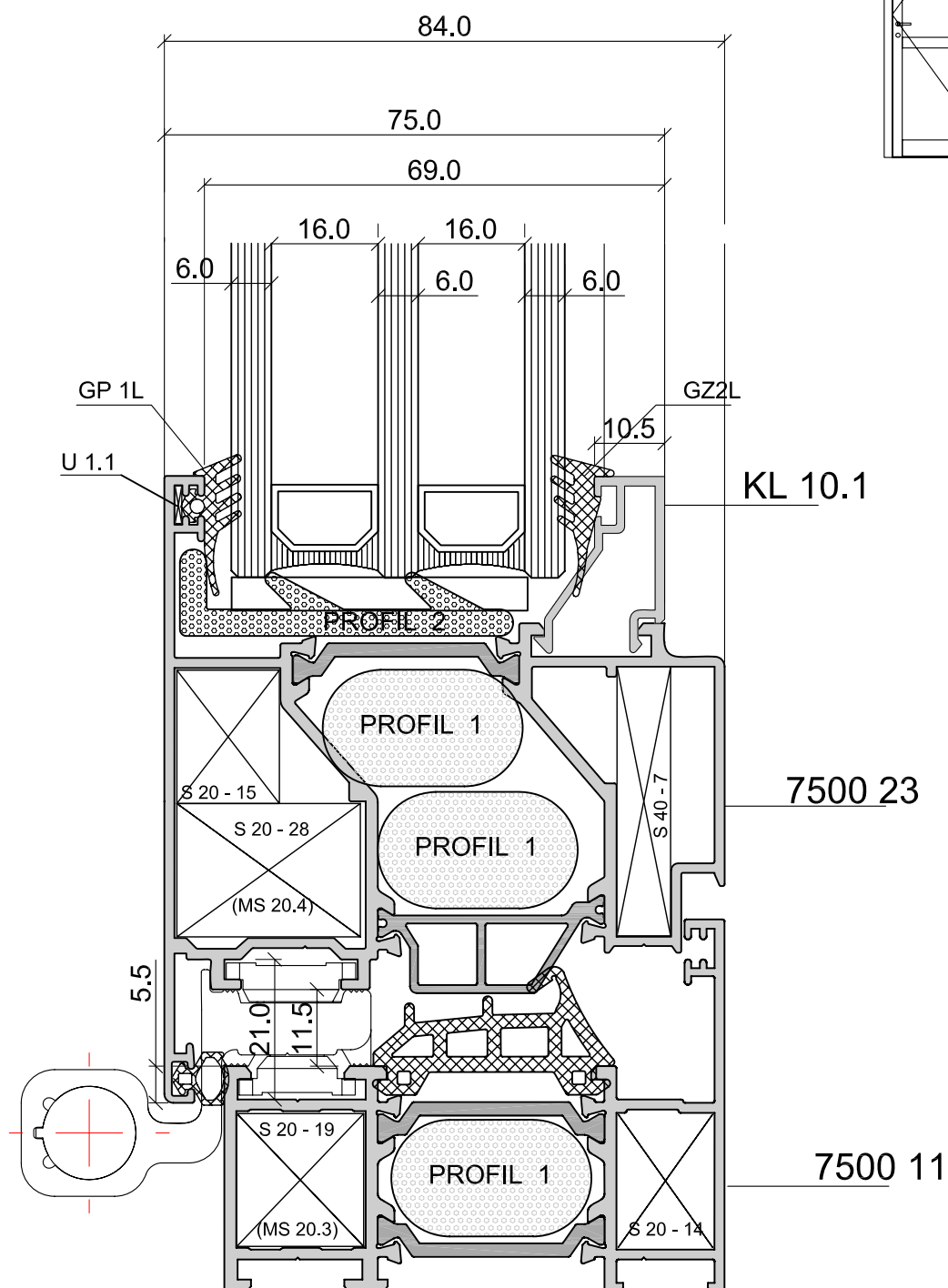
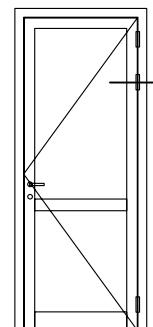
29



ALT 7500
TopTherm

E

30



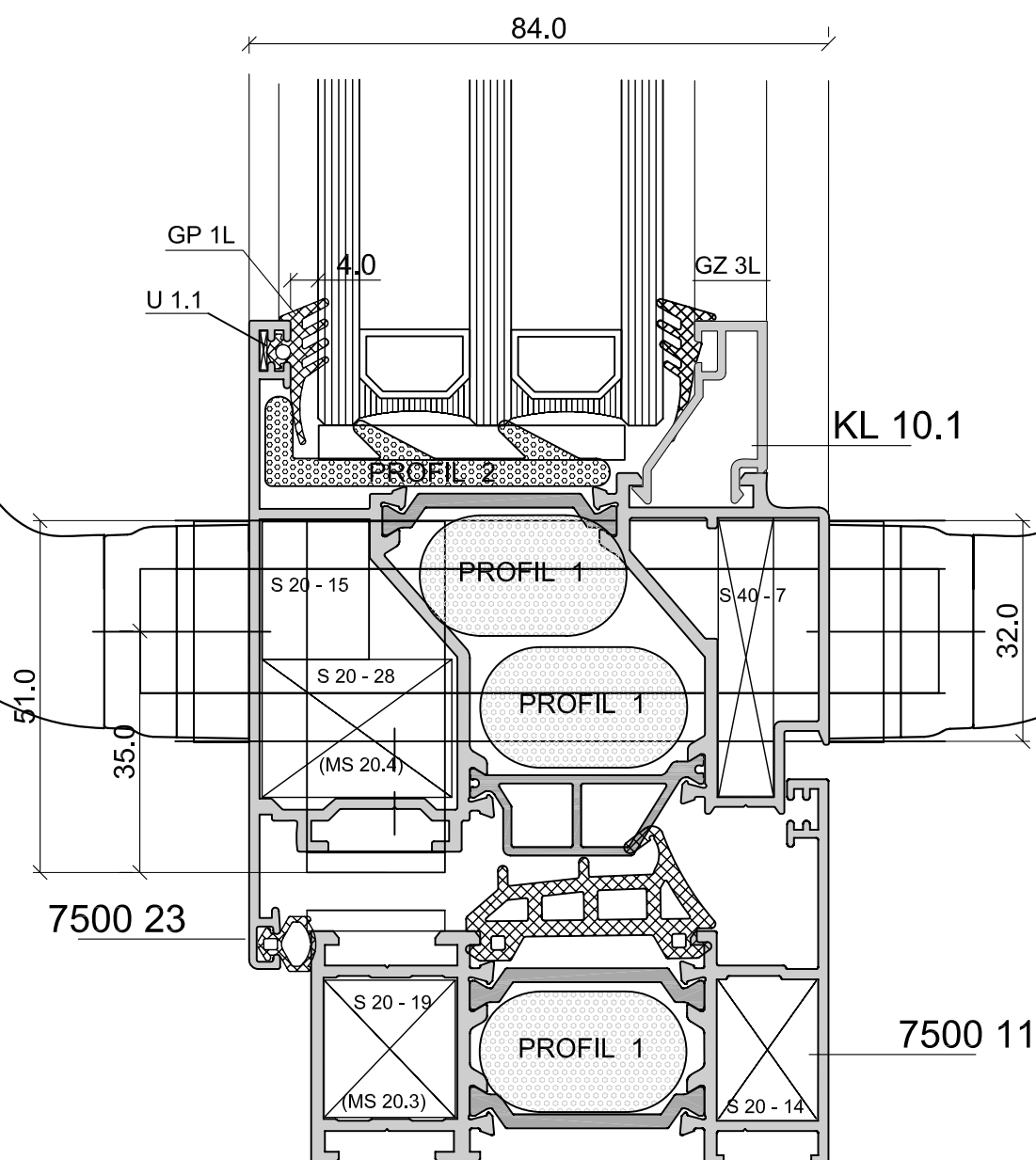
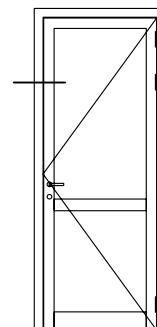
ALT 7500
TopTherm

E

31



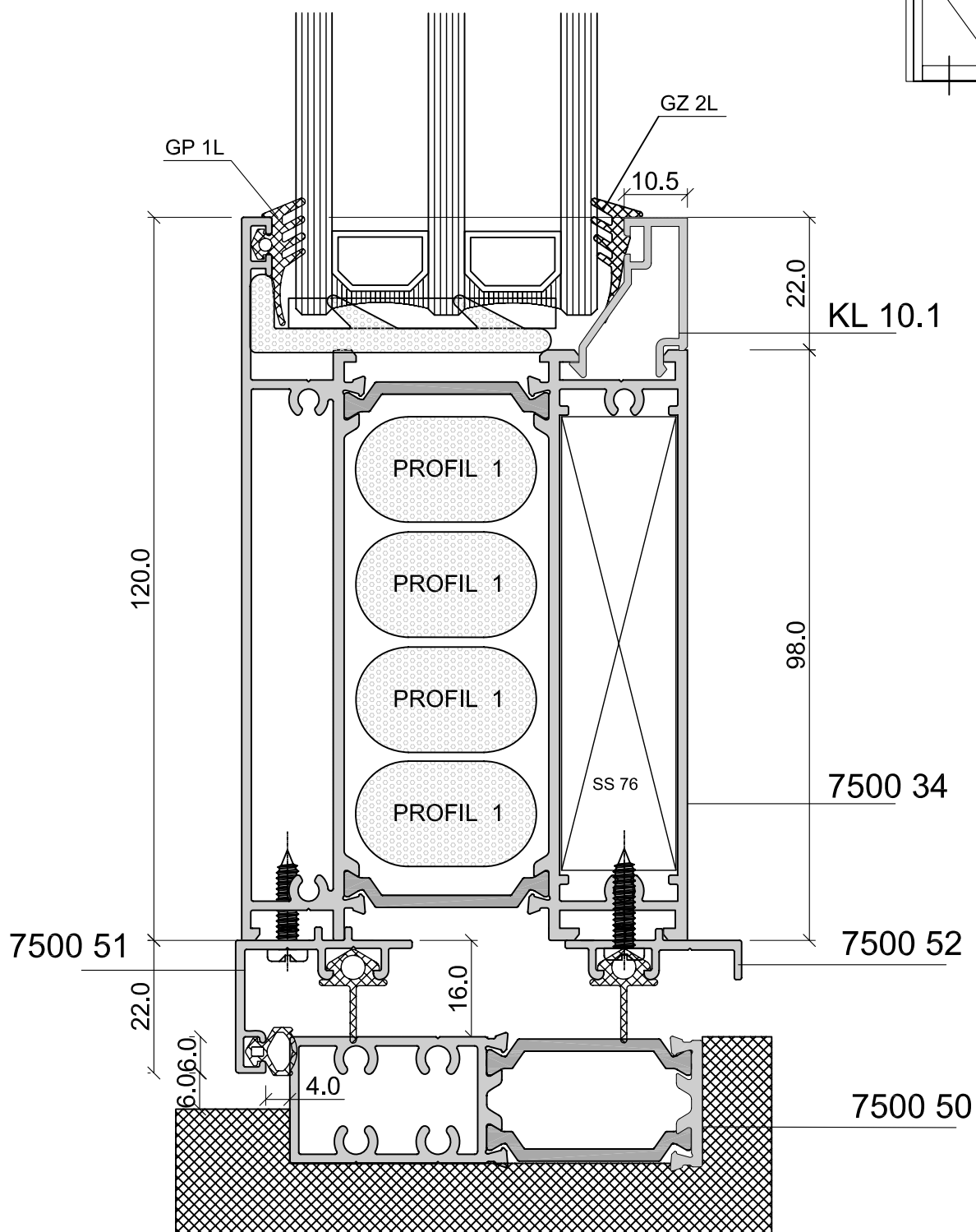
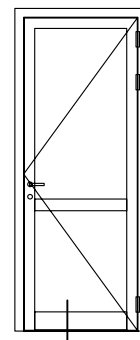
Detalj ugradnje ručice / The detail of installing handle



ALT 7500
TopTherm

E

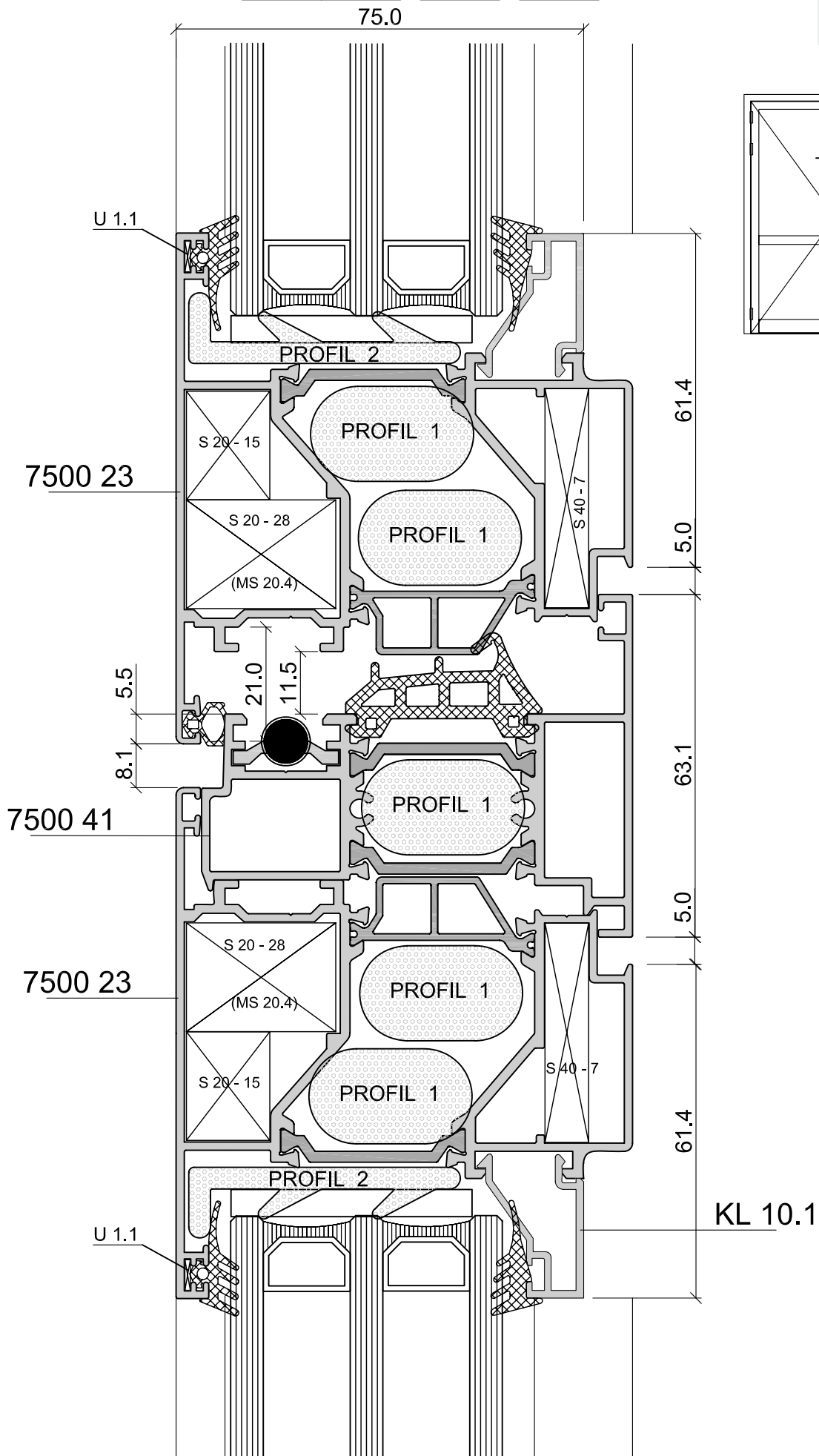
32



ALT 7500
TopTherm

E

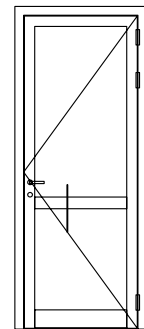
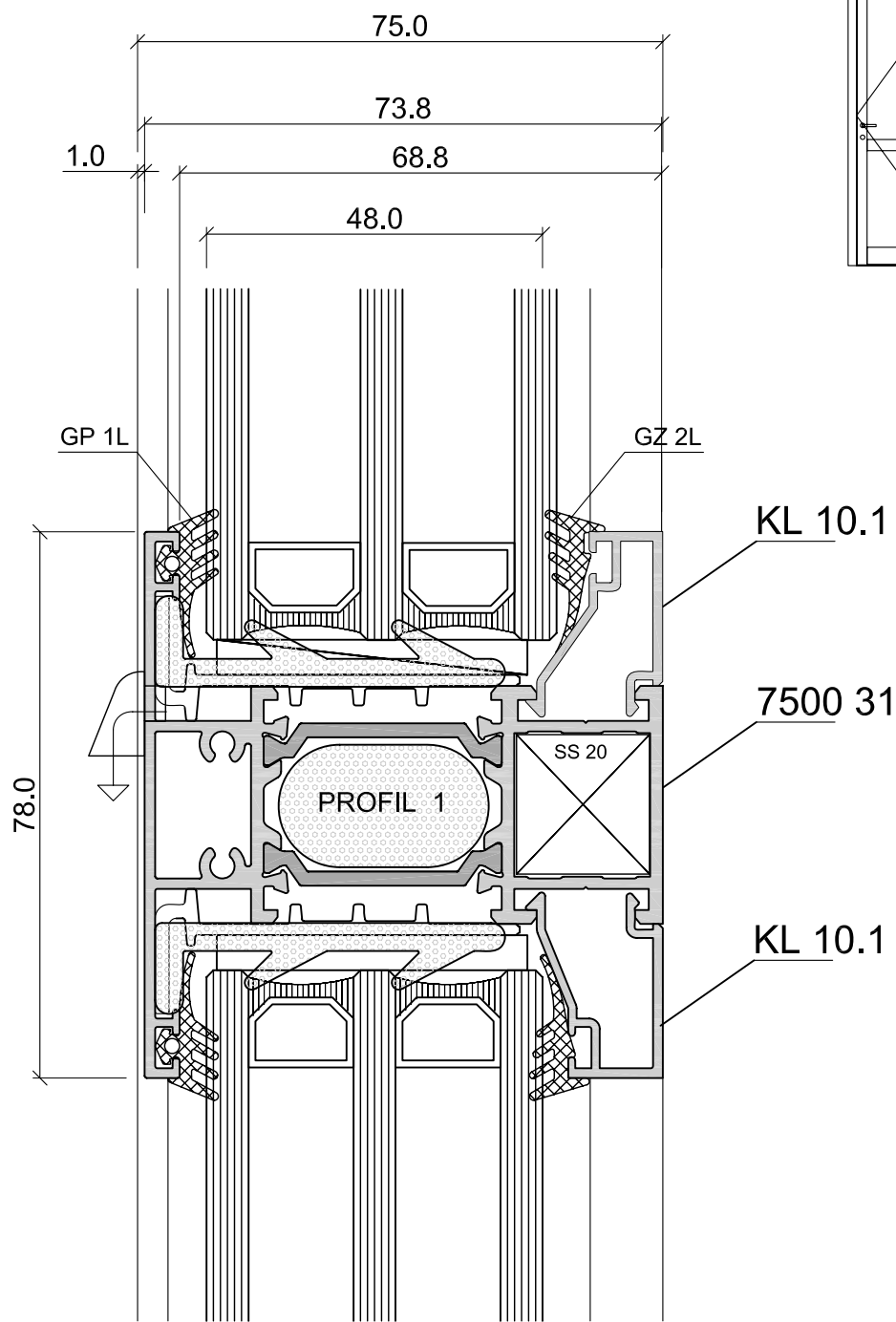
33



ALT 7500
TopTherm

E

34



NISSAL-NEWMET d.o.o.
Bulevar Svetog Cara Konstantina bb
18110 Niš / SERBIA

Tel: +381 18 502 333
Tel: +381 18 502 504
Fax: +381 18 502 503

office@nissal.co.rs
WWW.NISSAL.CO.RS

