

Palo-ovet

Fire doors



P94 EI₂30

Valmistusohjeet
Manufacturing manual

SISÄLLYSLUETTELO

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YLEISTÄ GENERAL

P94 EI₂30 PALO-OVET

- P94-ovijärjestelmään kuuluu 1-lehtiset ja pariovet, paloluokka EI₂30.

CE-MERKINTÄ

- P94 sisäänkäyntiovet (ulko-ovet) CE- merkitään tuotestandardien EN 14351-1 (normaalikäyttö) ja EN 16034 (palo-ominaisuudet) mukaan.
- Palonkestävyyden osalta P94 ovien luokitus tehdään luokitusraportin **EUFI29-21004260-T1** mukaisesti.

P94 ovilehden ja karmin sallitut mitat:

P94 EI₂30 FIRE DOORS

- P94 door system includes 1-leaf and double doors, fire class EI₂30

CE-marking

- P94 Entrance doors (exterior doors) are CE-marked according to product standards EN 14351-1 (normal use) and according to EN 16034 (fire properties).
- Regarding fire resistance, the classification of P94 doors is done in the classification report according to **EUFI29-21004260-T1**.

Permitted dimensions of P94 door leaf and frame:

1-lehtinen ovi 1-leaf door						
Paloluokka EI ₂ 30 Fire class EI ₂ 30				Paloluokka E45 Fire class E45		
	Leveys Width (mm)	Korkeus Height (mm)	Max ala Max area (m ³)		Leveys Width (mm)	Korkeus Height (mm)
Karmi Frame	625...1438	1875...2875	3.75	Karmi Frame	625...1250	1865...2500
Ovilehti Door leaf	569...1309	1826...2800		Ovilehti Door leaf	569...1138	1826...2434

Pariovi Double door						
Paloluokka EI ₂ 30 Fire class EI ₂ 30			Paloluokka EI ₂ 20, E30 Fire class EI ₂ 20, E30			
	Leveys Width (mm)	Korkeus Height (mm)		Leveys Width (mm)	Korkeus Height (mm)	Max ala Max area (m ³)
Karmi Frame	850...2500	1665...2500	Karmi Frame	850...2875	1665...2875	7.5
Käyntiovi Master door	542...1204	1601...2434	Käyntiovi Master door	542...1308	1601...2800	
Toissijainen ovi Slave door	262...1204	1601...2434	Toissijainen ovi Slave door	262...1308	1601...2800	

HELAT HARDWARE

ABLOY käyttölukot: ABLOY primary locks:	LC300, LC300X, LC301F, LC301FX, LC303, LC305, LC305X, LC130, LC130X, LC132, LC132X, LE310, LE310X, LE314, LE314X, EL495, EL495FU, EL495FL, EL480, EL482
ABLOY varmuuslukot: ABLOY security locks:	LC306, LC307, EL655, ASSA 814C-35, Safetron 6300
Oven sulkimet: Door closer:	ABLOY DC240, DORMA TS83
Saranat: Hinges:	HAHN M751 3-pcs/3-os HAHN R751 putkisarana/butt hinge - JSMHAHN/LV20 GIESSE DOMINA HP 3-pcs/3-os
Parioven pikasalvat: Latch:	ABLOY DF3001, ROCA 200
Ylivienti suoja: Lead cover:	ABLOY EA281
Lasi: Glass:	3K eristyslasi Polflam EI30, Fireswiss Foam 30-19 Contraflam (HUOM! vain ulkopuolinen palo) 3K insulation glass Polflam EI30, Fireswiss Foam 30-19 Contraflam (NOTE! Only fire from outside)
Umpiosa: Panel:	Mineraalivilla Paroc FPS 170, 50mm + molemmilla puolilla Cemprit Windstopper Extreme 4,5 mm ja alumiini- tai teräslevy Mineralwool Paroc FPS 170, 50mm + on both sides Cemprit Windstopper Extreme 4,5 mm and aluminum or steel plate
Sormisuoja: Finger protection:	NR-32 (int) / BD28+ (ext), Athmer GmbH
Profiilit: Profiles:	*Oviprofiilit koostuvat kahdesta alumiinisesta suulakepuristetusta osasta, jotka on yhdistetty toisiinsa muovisilla lämpökatkoilla. *Profiilien keskikammioon asennetaan eristelevy, joka parantaa lämmöneristystä. *Profiilien pintakäsittelynä voi olla anodisointi tai jauhemaalaus. *Oviprofiilien syvyys 94 mm. *Profiileihin asennetaan teräksiset lasinkiinnikkeet ja sidontaliuskat, joilla varmistetaan lasin kiinnitys ja rungon lujuus palotilanteessa. *The door profiles consist of two extruded aluminium parts, which are connected to each other with plastic thermal breaks *Insulation block is installed in between of extruded parts and thermal breaks to enhance thermal properties *Anodizing or pulver coating can be used as surface treatment *Door profiles are 94mm deep *Fixing strips and glass fasteners are installed to the profiles in order to secure the glass and the strength of the frame during a fire

Purso Oy vastaa tämän tuotekatalogin sovellustapojen toimivuudesta, mutta muista sovellustavoista vain erikseen sovittaessa.

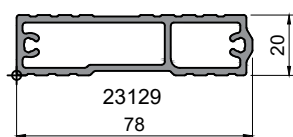
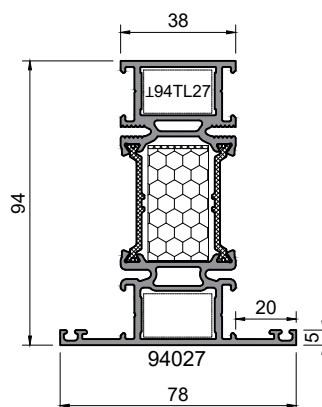
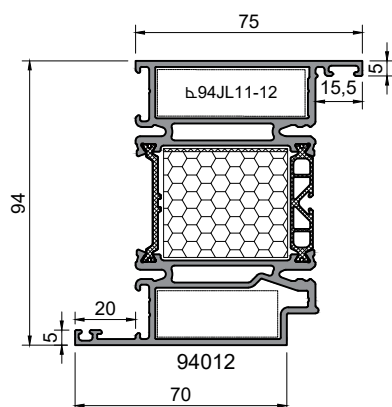
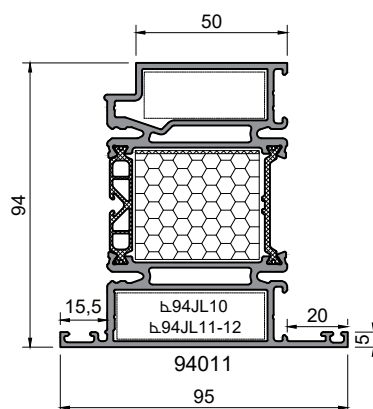
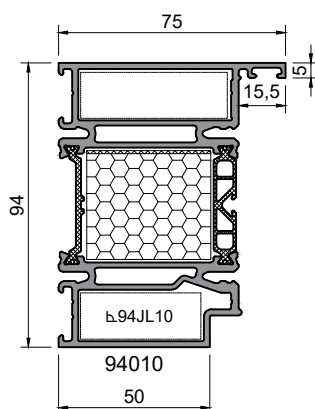
Vastuu rakenteiden valmistuksen ja asennuksen valvonnasta ei kuulu Purso Oy:lle.

Purso Oy guarantees the function of the applications described in this catalogue. Other applications are guaranteed only by separate agreement.

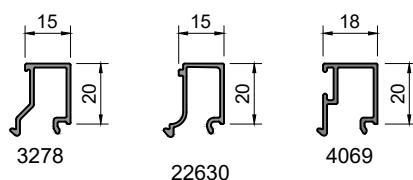
Purso Oy does not take responsibility for control of the installations.

Profilit

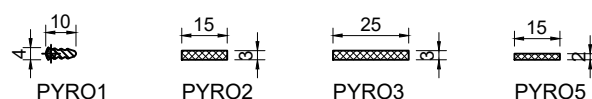
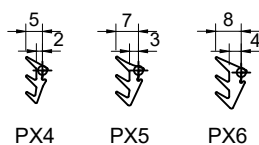
Profiles



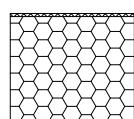
Lasituslistat Glazing beads



Tiivisteet Gaskets



Profiilien täytteet Profile fillings



TPUR 36X41



TPUR 20X38

Jiiriliitos- ja T-liitoskappaleet
Mitre joint- and T-joint pieces
94JL10

L=16.6 ±0.1 mm

Profiileille: 94010

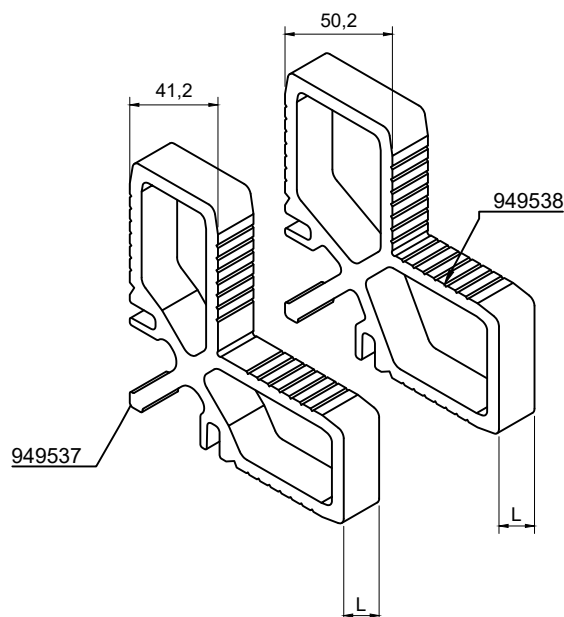
For profiles: 94011

Lukitus kulmapuristimella tai lukitustapilla

Lukitustapit on tilattava erikseen

Locking by corner crimper or locking pin

Locking pins set to be ordered separately


94JL11-12

L=16.6 ±0.1 mm

Profiileille: 94011

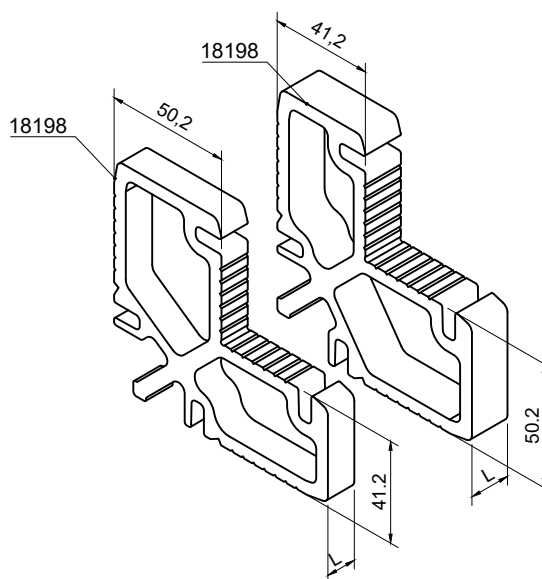
For profiles: 94012

Lukitus kulmapuristimella tai lukitustapilla

Lukitustapit on tilattava erikseen

Locking by corner crimper or locking pin

Locking pins set to be ordered separately


80TL27

L=23.8 ±0.1 mm

Profiileille:

For profiles: 94027

- | | | |
|---|---------------------|------------------|
| ① | Lukitustappi | |
| | Locking pin | |
| ② | Pidätinruuvi | DIN 914 A2 M6x12 |
| | Holding screw | |
| ③ | Levyruuvi | Ø4.8,x13 |
| | Spaced thread screw | |
| ④ | Profiili | 13808 |
| | Profile | |
| ⑤ | Profiili | 22385 |
| | Profile | |



DIN 914 A2 M6x12



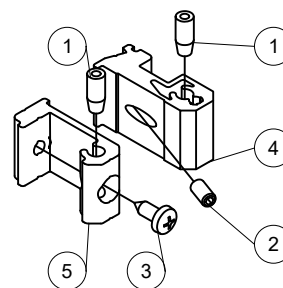
Ø4.8,x13



13808



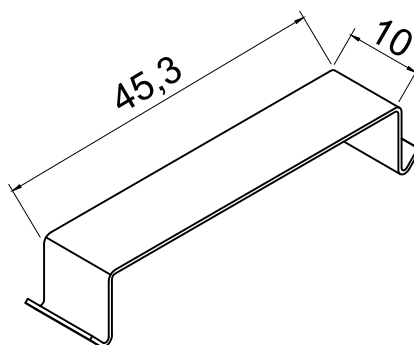
22385



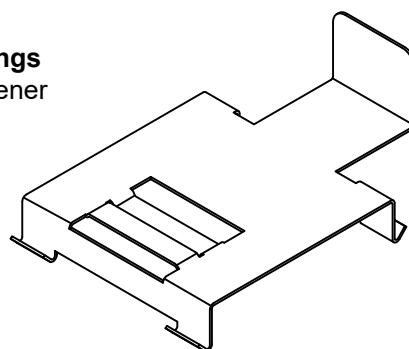
Sidontaliuskat, lasin- ja umpiosankiinnikkeet

Fixing strips, glass and filling fastener

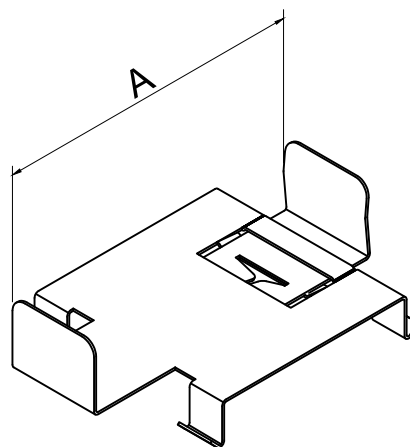
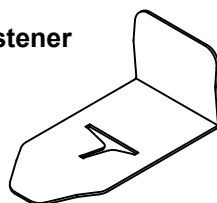
Lasitilaan/ To the glass space
94/10



3K-lasitus ja umpiosa/ 3K glazing and fillings
Lasin kiinnikkeen runko/ Frame for glass fastener
94/20



Lasin kiinnike/ Glass fastener
A=60-64 mm
94/21

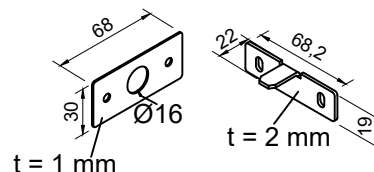


Sidontaliuskojen ja lasinkiinnikkeiden
lukumäärät määritelty s. 8.1 taulukossa
The amounts of fixing strips and glass
fasteners are defined in the table on page 8.1

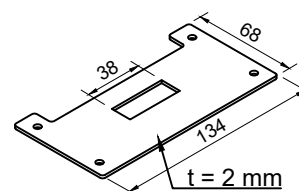
Oven tarvikkeita

Door accessories

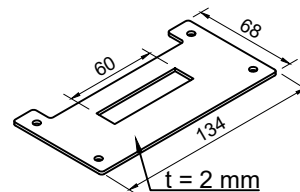
Varmistustappi ja vastakappale 94/40
3 kpl/ ovilehti
Security pin and plate 94/40
3 pcs/ door leaf



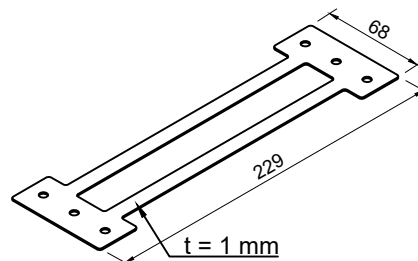
Käyttölukon vastarauta 94/46
Lock striker 94/46



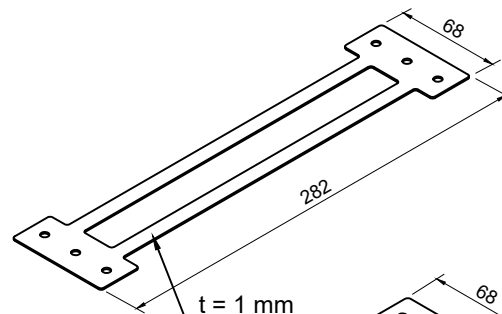
Varmuuslukon vastarauta 94/47
Security lock striker 94/47



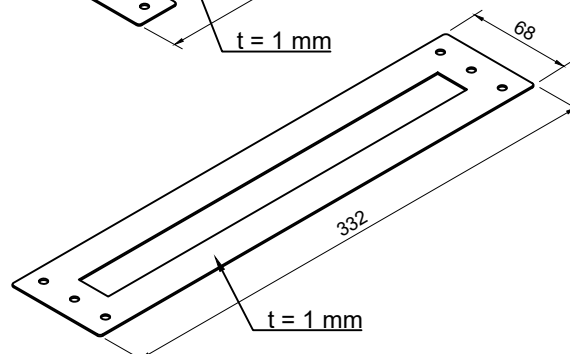
Lukon kiinnike 94/50
1 kpl/ lukkorunko
Käyttölukkoon LC305, Varmuuslukkoon LC306
Lock fastener 94/50
1 pcs/ lockframe
To the lock LC305, to security lock LC306



Lukon kiinnike 94/51
1 kpl/ lukkorunko
Käyttölukkoon EL495FU
Lock fastener 94/51
1 pcs/ lockframe
To the lock EL495FU



Lukon kiinnike 94/52
1 kpl/ lukkorunko
Käyttölukkoon EL655
Lock fastener 94/52
1 pcs/ lockframe
To the lock EL655



Oven tarvikkeita

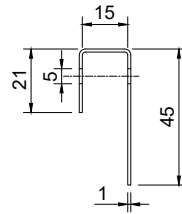
Door accessories

Reunakouru L=1200

Kiertää karmiaukon ympäri

U profile L=1200

Goes around door frame

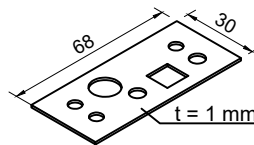


Pikasalvanohjain 94/61

2 kpl/ pariovi - ovilehteen

Rod support 94/61

2 pcs/ double leaf doors - to door leaf

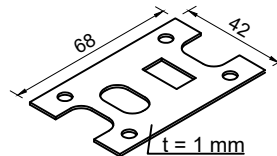


Pikasalvanohjain 94/62

1 kpl/ pariovi - oven karmin

Rod support 94/62

1 pcs/ double leaf doors - to door frame

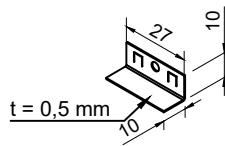


Oven tiivistyskappale 94/60

4 kpl/ pariovi

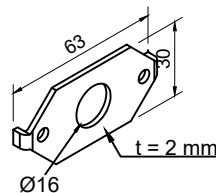
Corner plate 94/60

4 pcs/ double leaf doors



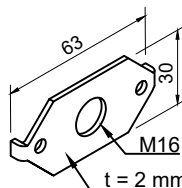
Adjufix levy 16 94/44

Adjufix plate 16 94/44



Adjufix levy M16 94/45

Adjufix plate M16 94/45



Adjufix hylsy AH38

Ruuvit erikseen

Adjufix mounting bush AH38

Screws separately

Adjufix 120103 x Puuruuvi 8x64/

Adjufix 120457 x Betoniruuvi 7,5x70/

Adjufix 120106 x Teräsruuvi, itseporautuva 6,7x42

Adjufix 120103 x Wood screw 8x64

Adjufix 120457 x Concrete screw 7,5x70

Adjufix 120106 x Self drilling steel screw 6,7x42

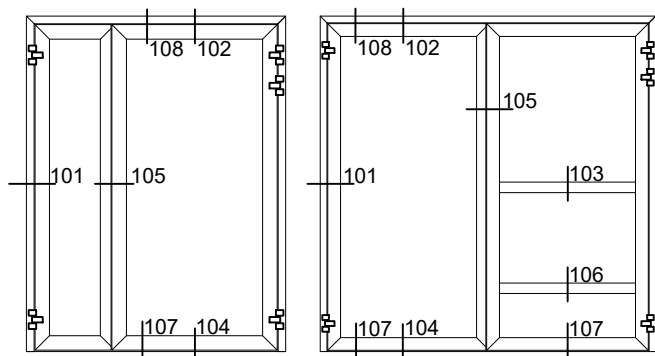
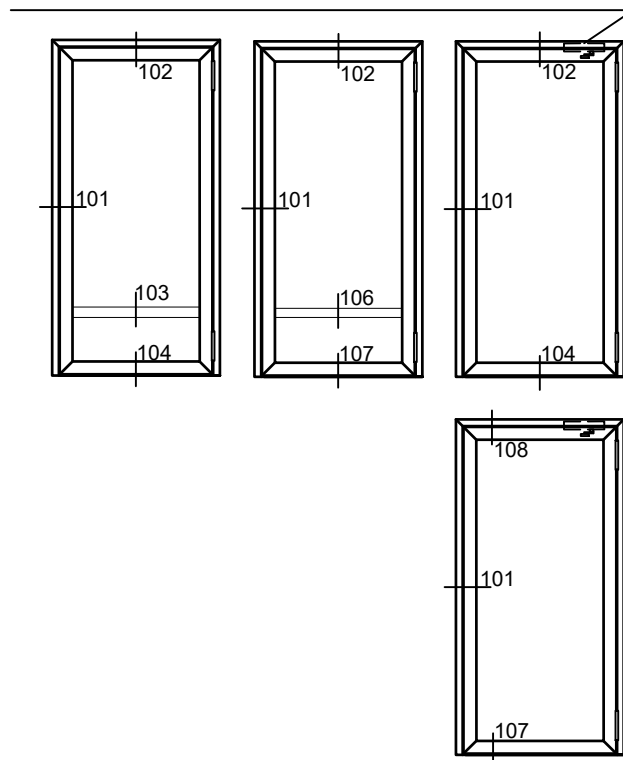
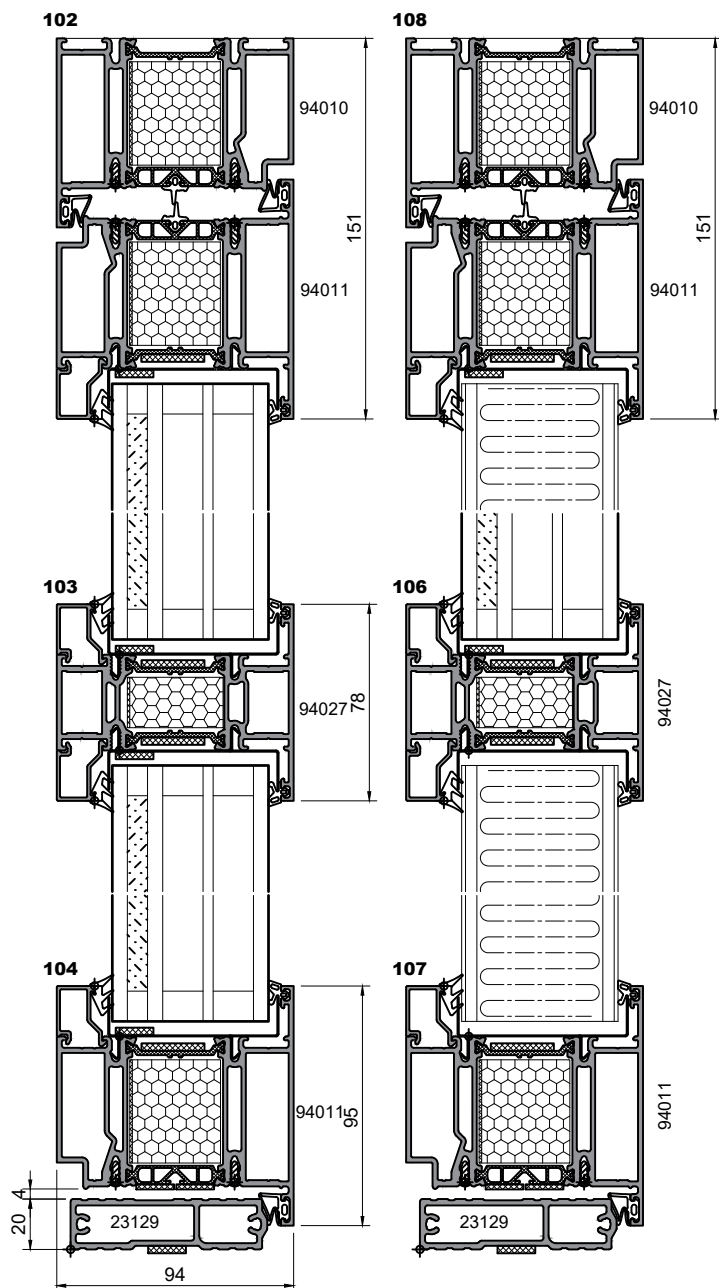


Käynti ja pariovet

Master and double doors

Suljin saranapuolelle ovilehteen tai vastakkaiselle puolelle karmiin

Door closer is placed on the same side as hinges on the door leaf or on the opposite side on the frame

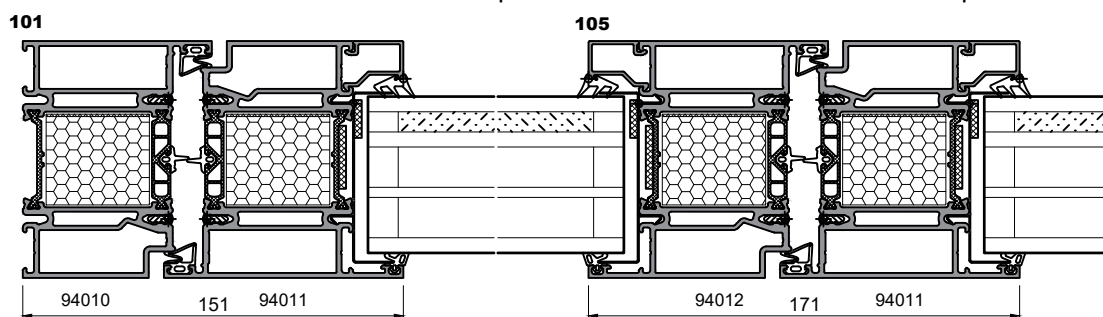


Ovilehdet voidaan jakaa osiin vaakasuuntaista profiilia käyttäen.

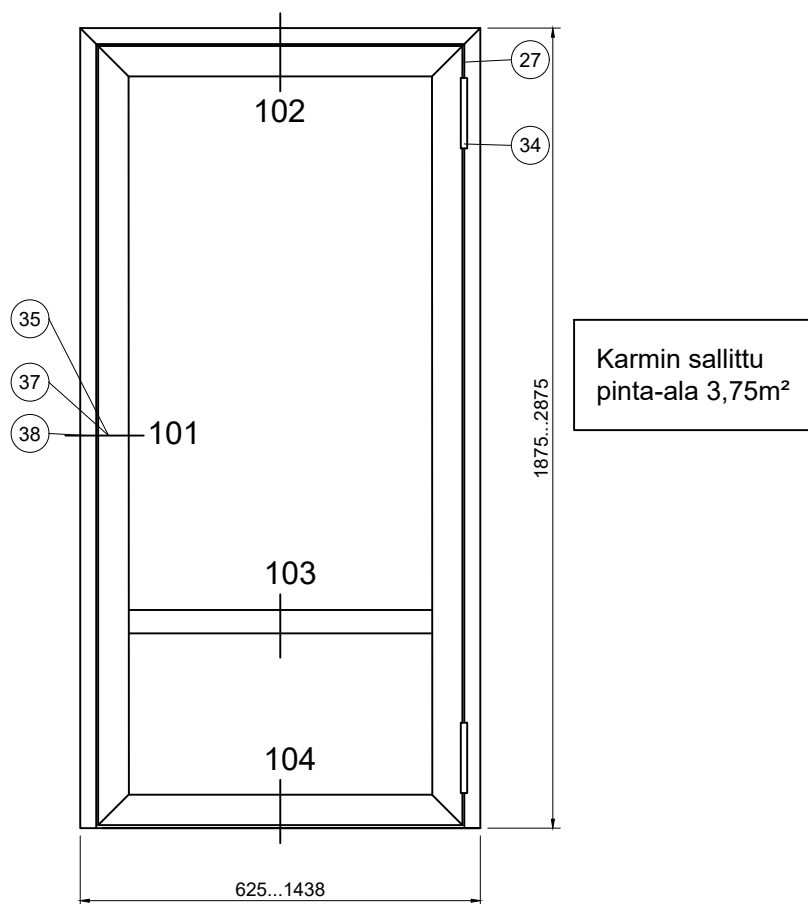
Profiilien ei tarvitse kulkea samassa kohtaa kummassakin ovilevyssä.

The door leaves can be divided into parts using a horizontal profile.

The profiles do not have to run at the same point on both door panels.

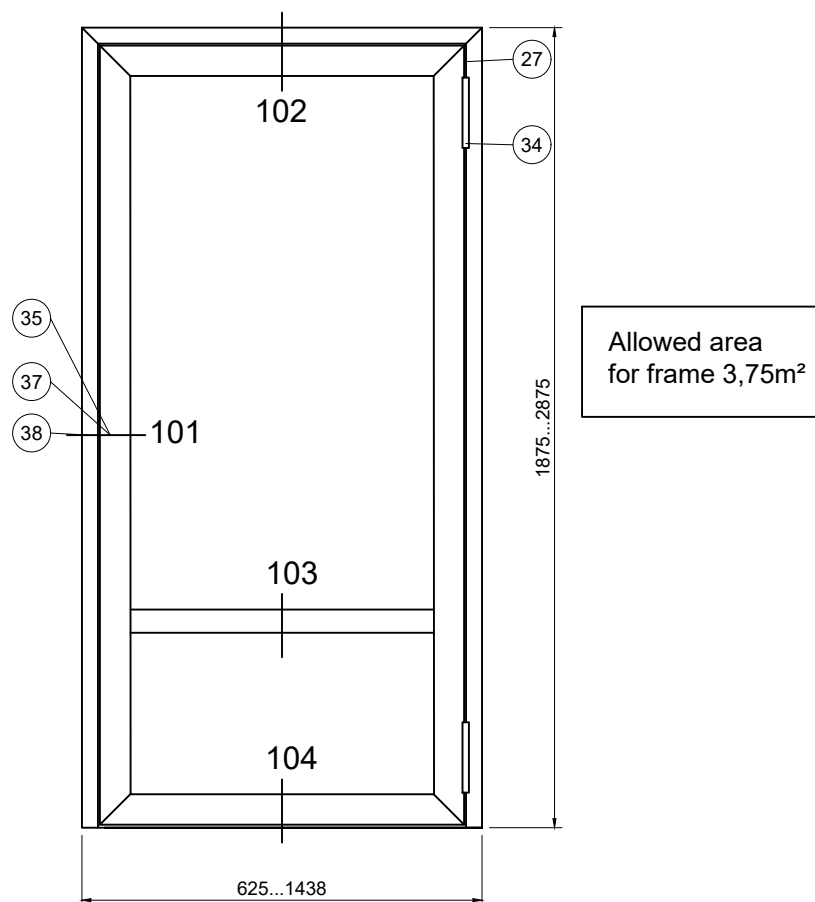


Osaluettelo 1-lehtinen ovi



Osa	Tarvike	Tyyppi	LKM	Ohje	24	Sidontaliuska	94/10		
1	Karmi	94010			25	Lasinkiinnike	94/20 + 94/21		
2	Puite	94011			27	Varmistustappi & vastalevy	94/40	3+3	
4	Välivaaka	94027			28	Adjufix levy 16	94/44	2	
5	Kynnys	23129			29	Adjufix levy M16	94/45	8	
6	Lasituslista	3278/ 4069			30	Säätöholkki	Adjufix AH38	10	
7	Eriste	TPUR 36x41			31	Ruuvi	Adjufix	10	
8	Eriste	TPUR 20x28			34	Sarana			
14	Palotiiviste	PYRO1			35	Käyttölukko		1	
15	Palotiiviste	PYRO2			37	Lukon kiinnike	94/50 or 94/51	1	
16	Palotiiviste	PYRO3			38	Käyttölukon vastarauta	94/46	1	
17	Palotiiviste	PYRO5			50	Palolasi	6ESG/16/4ESG/ 16/EL20 (20mm)		
18	Huulostiiviste	DX781			52	Metallilevy	Alumiini tai teräs		
19	Keskitiiviste	DX785			53	Tuulensuojalevy	Windstopper Extreme 4,5mm		
20	Lasitustiiviste	DX783			55	Eriste	Paroc eXtra F		
21	Lasitustiiviste	PX4,PX5			60	Ruuvi	4,2x13		

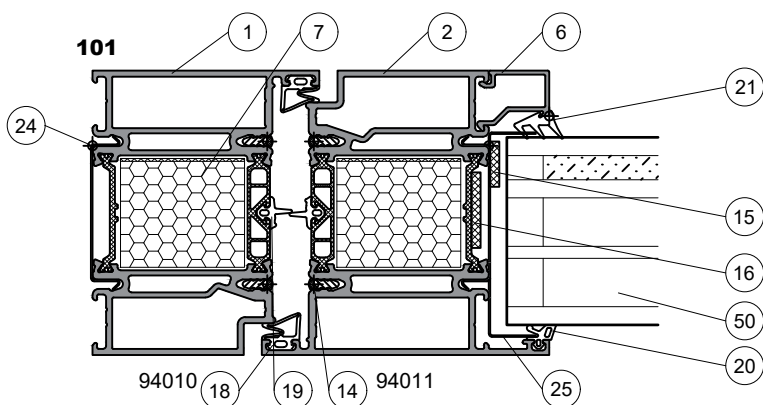
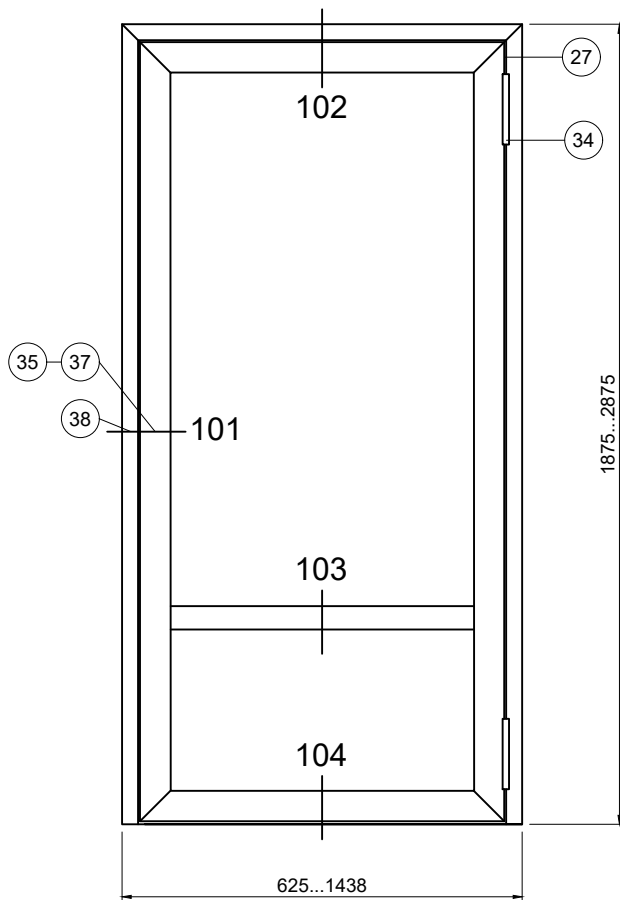
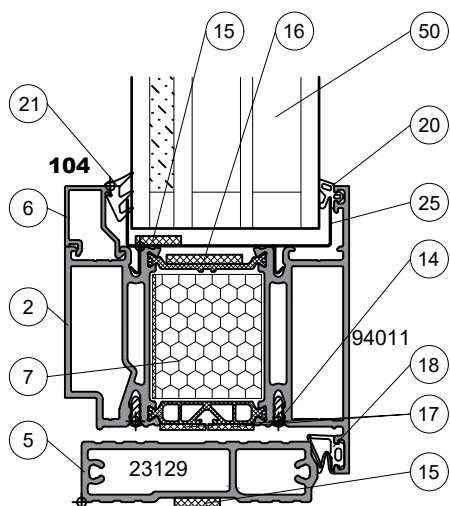
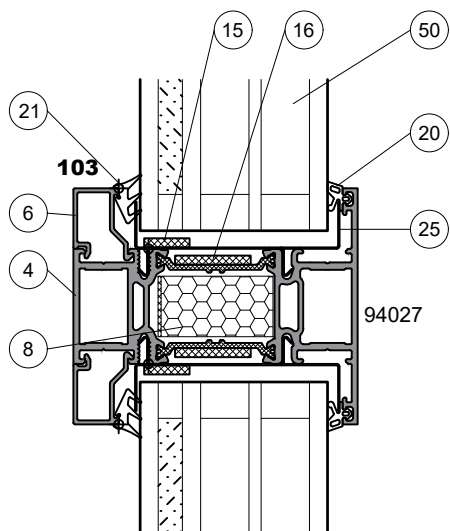
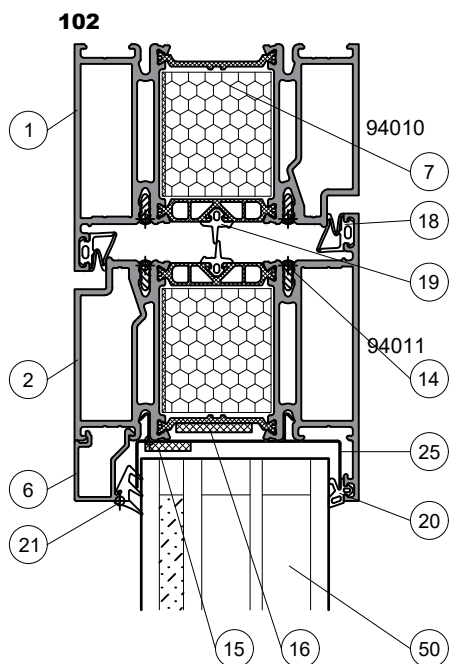
Part list 1-leaf door



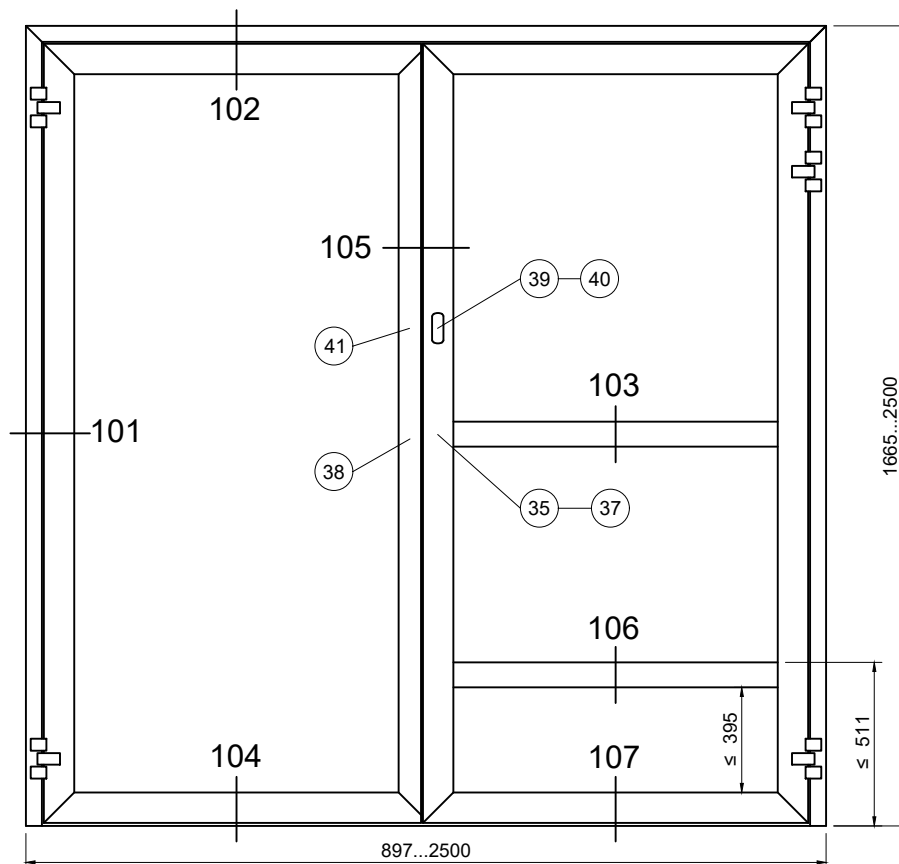
Part	Accessories	Type	PCS	Guide	24	Fixing strip	94/10		
1	Frame	94010			25	Glass fastener	94/20 + 94/21		
2	Sash	94011			27	Security pin & counter plate	94/40	3+3	
4	Transom	94027			28	Adjufix plate 16	94/44	2	
5	Treshold	23129			29	Adjufix plate M16	94/45	8	
6	Glazing bead	3278/ 4069			30	Adjusting sleeve	Adjufix AH38	10	
					31	Screw	Adjufix	10	
7	Insulation	TPUR 36x41			34	Hinge			
					35	Mortise lock		1	
8	Insulation	TPUR 20x28			37	Lock fastener	94/50 or 94/51	1	
14	Fire seal	PYRO1			38	Lock counterplate	94/46	1	
15	Fire seal	PYRO2			50	Fire glass	6ESG/16/4ESG/ 16/EL20 (20mm)		
16	Fire seal	PYRO3							
17	Fire seal	PYRO5			52	Metal plate	Aluminum or steel		
18	Rebate gasket	DX781							
19	Middle gasket	DX785			53	Wind stopper plate	Windstopper Extreme 4,5mm		
20	Glazing gasket	DX783			55	Insulation	Paroc eXtra F		
21	Glazing gasket	PX4,PX5			60	Screw	4,2x13		

Osaluettelo 1-lehtinen ovi

Part list 1-leaf door

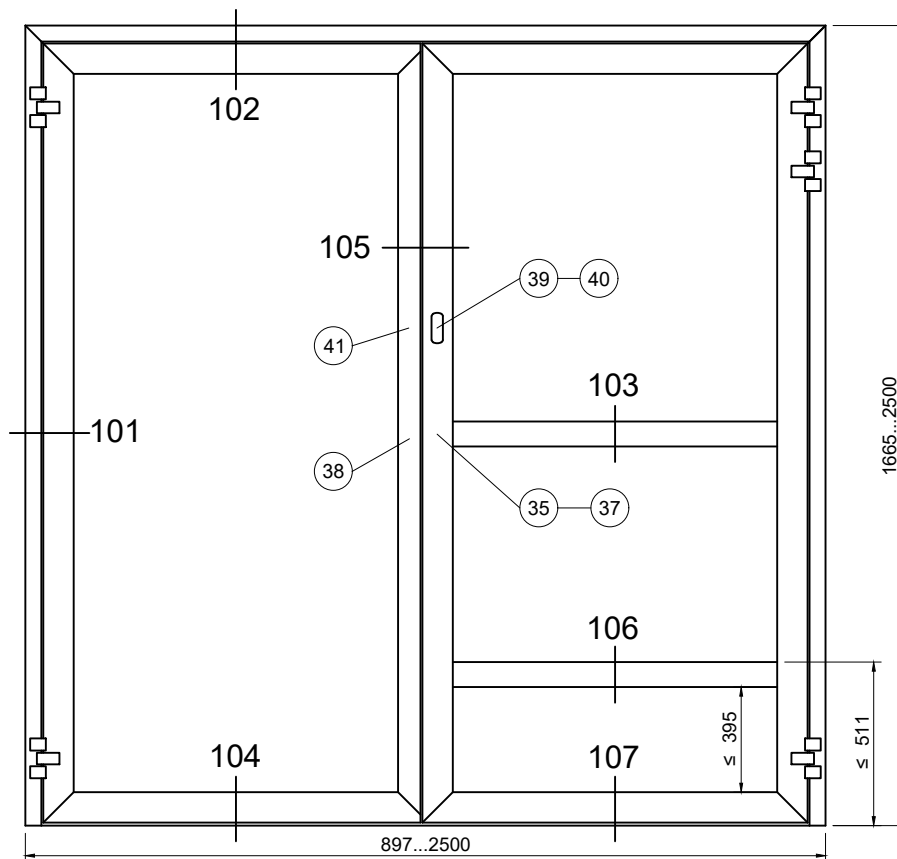


Osaluettelo, pariovi



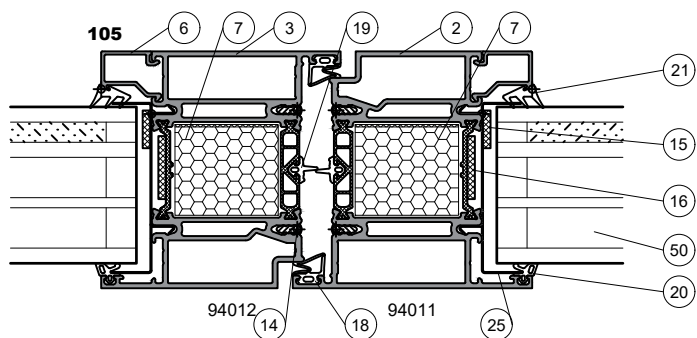
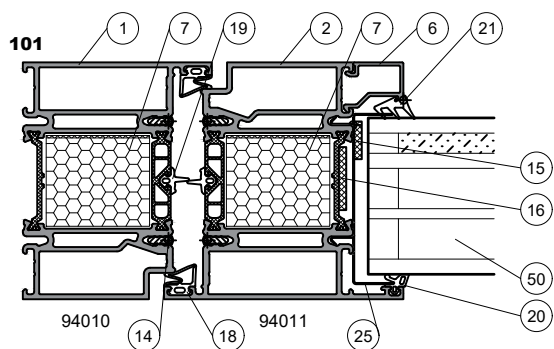
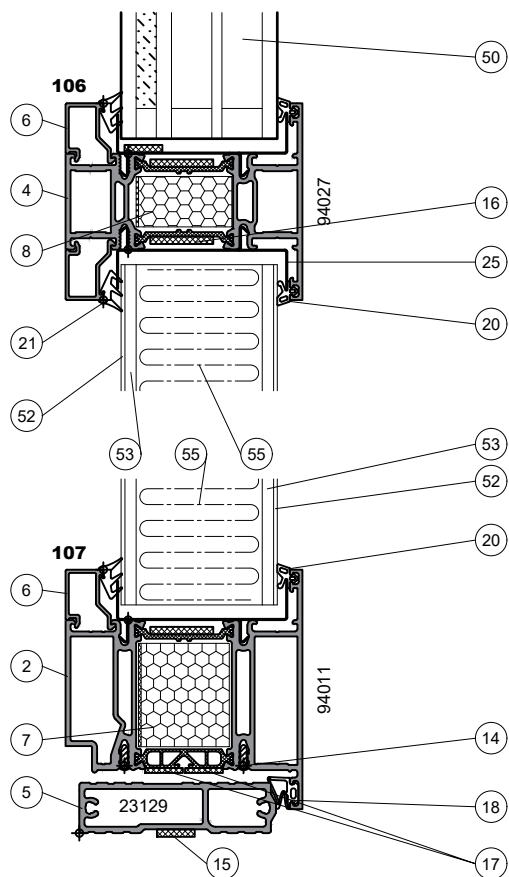
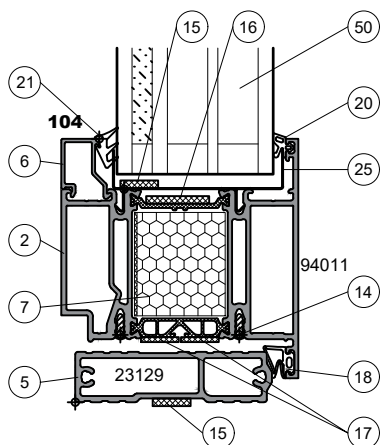
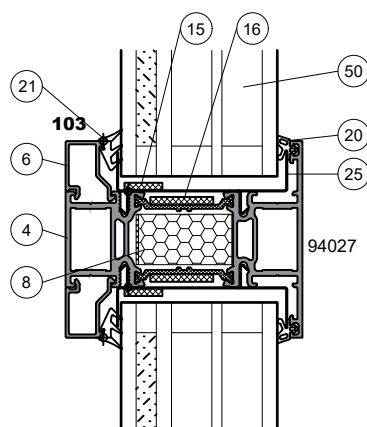
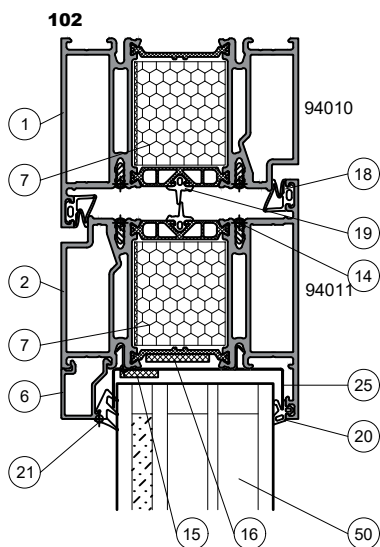
Osa	Tarvike	Tyyppi	LKM	Ohje	31	Ruuvi	Adjufix	12	
1	Karmi	94010			34	Sarana			
2	Puite	94011			35	Käyttölukko		1	
3	Z-oviprofiili	94012			37	Lukon kiinnike	94/50 tai 94/51	1	
4	Väliwaaka	94027			38	Käyttölukon vastarauta	94/46	1	
5	Kynnys	23129			39	Varmuuslukko	23129	1	
6	Lasituslista	3278/4069			40	Lukon kiinnike	94/50 tai 94/52	1	
7	Eriste	TPUR36x41			41	Varmuuslukon vastarauta	94/47	1	
8	Eriste	TPUR20x28			42	Pikasalpa	Abloy DF3001/ Roca 200	1	
9	Eriste	TPUR36x41L			43	Pikasalvan ohjain	94/61	2	
14	Palotiiviste	PYRO1			44	Pikasalvan vastarauta	94/62	1	
15	Palotiiviste	PYRO2			45	Oven tiivistyskappale	94/60	4	
16	Palotiiviste	PYRO3			46	Ylivientisuoja	Abloy EA281	3	
17	Palotiiviste	PYRO5			47	Suojaletku	HF FU16-25M	9	
18	Huullostiiviste	DX781			48	Kaapeli	Abloy 9x0.14mm2	9	
19	Keskitiiviste	DX785			50	Palolasi	6ESG/16/4ESG/16/EI20 (20mm)		
20	Lasitustiiviste	DX783			52	Metallilevy	Alumiini tai teräs		
21	Lasitustiiviste	PX4,PX5			53	Tuulensuojalevy	Windstopper Extreme 4,5 mm		
24	Sidontaliuska	94/10			55	Eriste	Paroc FPS 170 (50mm)		
25	Lasinkiinnike	94/20+94/21			60	Ruuvi	4,2x13		
27	Varmistustappi ja vastakappale	94/40	6+6						
28	Adjufix levy 16	94/44	4						
29	Adjufix levy M16	94/45	8						
30	Säätöholkki	Adjufix AH38	12						

Part list, double door



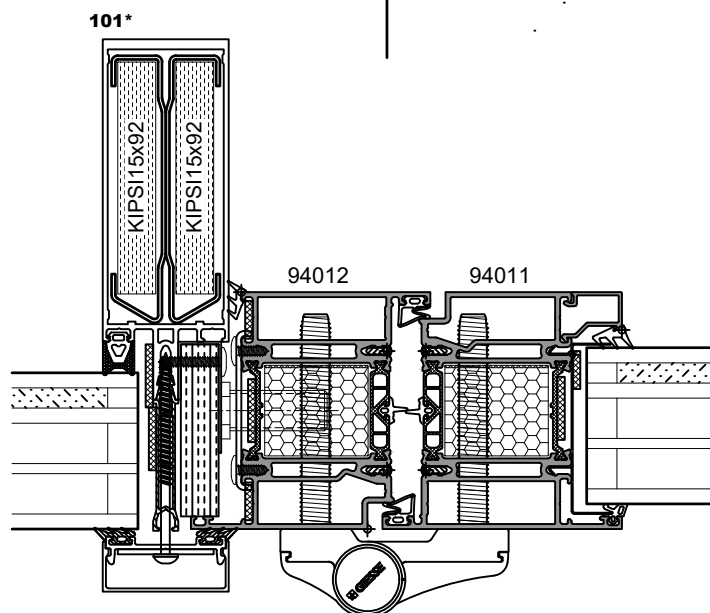
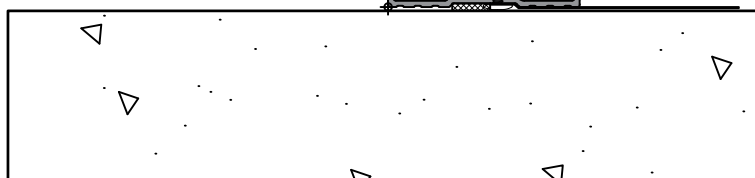
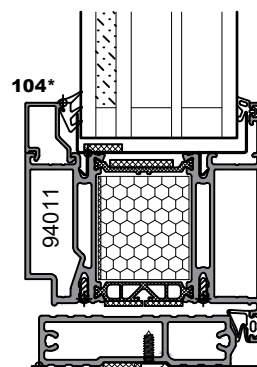
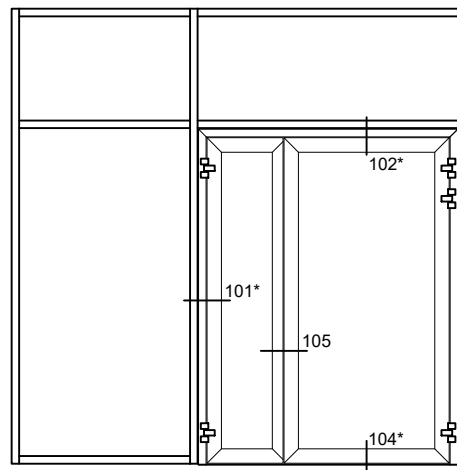
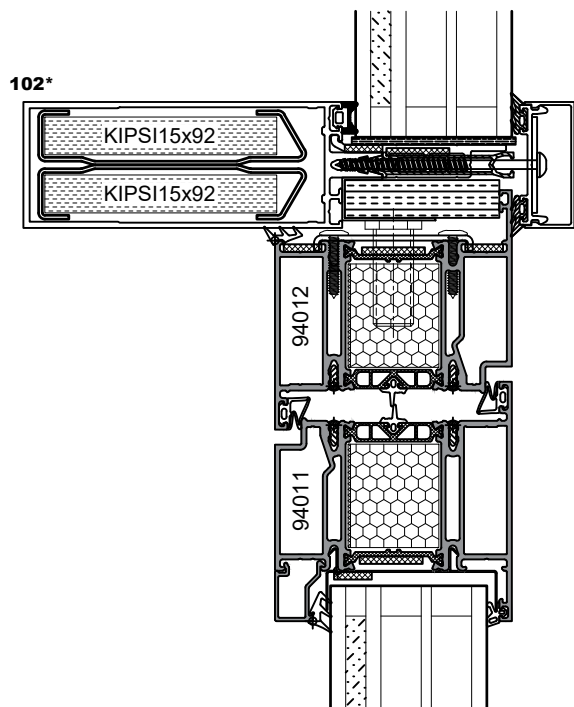
Part	Accessories	Type	PCS	Guide	31	Screw	Adjufix	12	
1	Frame	94010			34	Hinge			
2	Sash	94011			35	Mortise lock		1	
3	Z-door profile	94012			37	Lock fastener	94/50 tai 94/51	1	
4	Transom	94027			38	Lock counterplate	94/46	1	
5	Treshold	23129			39	Security lock	23129	1	
6	Glazing bead	3278/ 4069			40	Lock fastener	94/50 tai 94/52	1	
7	Insulation	TPUR36x41			41	Lock counter plate	94/47	1	
8	Insulation	TPUR20x28			42	Quick bolt	Abloy DF3001/ Roca 200	1	
9	Insulation	TPUR36x41L			43	Rod support	94/61	2	
14	Fire seal	PYRO1			44	Rod support	94/62	1	
15	Fire seal	PYRO2			45	Sealing piece	94/60	4	
16	Fire seal	PYRO3			46	Lead cover	Abloy EA281	3	
17	Fire seal	PYRO5			47	Protective hose	HF FU16-25M	9	
18	Rebate gasket	DX781			48	Cable	Abloy 9x0.14mm2	9	
19	Middle gasket	DX785			50	Fire glass	6ESG/16/4ESG/16/EI20 (20mm)		
20	Glazing gasket	DX783			52	Metal plate	Alumiini tai teräs		
21	Glazing gasket	PX4,PX5			53	Wind stopper plate	Windstopper Extreme 4,5 mm		
24	Fixing strip	94/10			55	Insulation	Paroc FPS 170 (50mm)		
25	Glass fastener	94/20 + 94/21			60	Screw	4,2x13		
27	Security pin & counter plate	94/ 40	6+6						
28	Adjufix plate 16	94/ 44	4						
29	Adjufix plate M16	94/ 45	8						
30	Adjusting sleeve	Adjufix AH38	12						

Osaluettelo, pariovi
Part list, double door



P94 ovi P50L julkisivujärjestelmässä

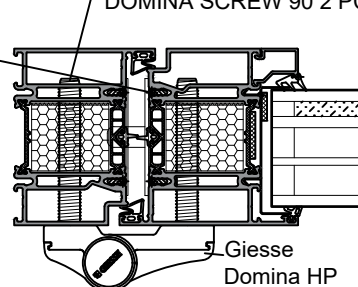
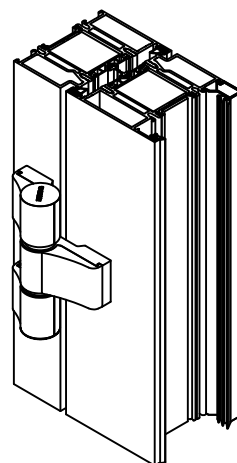
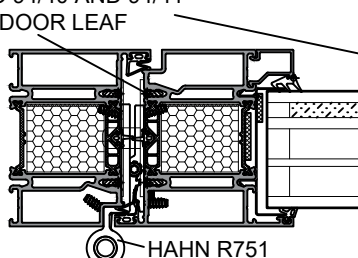
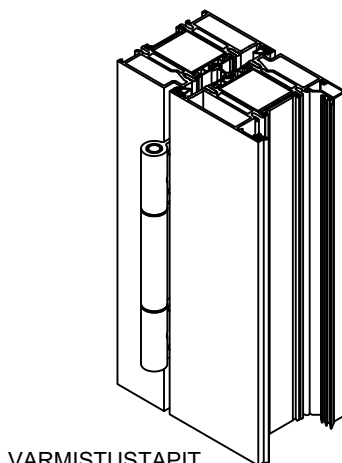
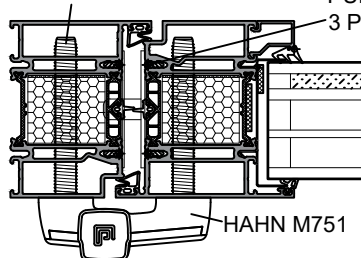
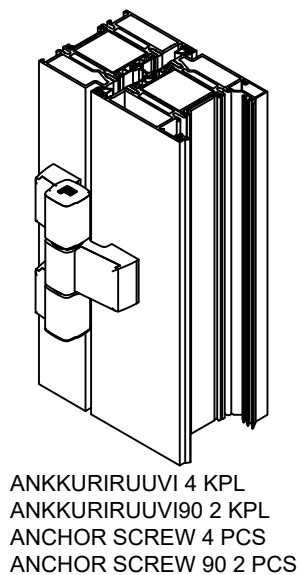
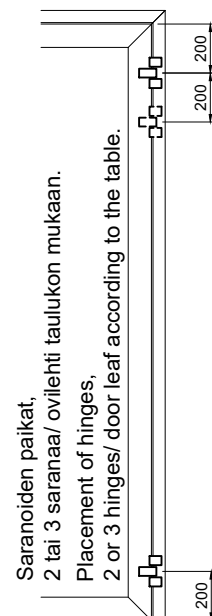
P94 door in P50L facade system



Saranat

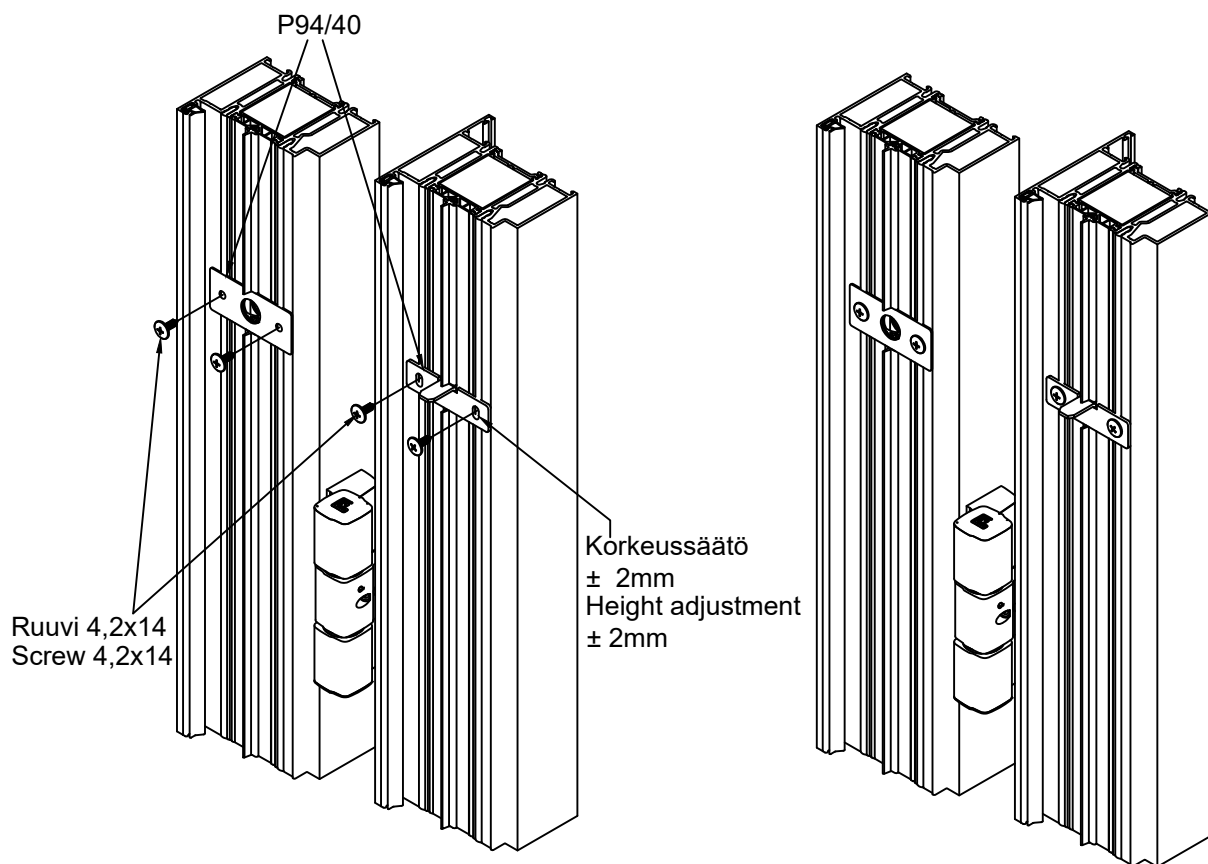
Hinges

		Käyttökohde/ Object of use			
		OVILEHDEN (leveys ≤ 1200, korkeus 1800...2430)			
		SUOSITELTAVAT MAKSIMIPAINOT (kg) ERI SARANOILLA			
		DOOR LEAVES (width ≤ 1200, height 1800...2430)			
		RECOMMENDED MAXIMUM WEIGHTS (kg) FOR HINGES			
Saranat Hinges					
Tyyppi/ Type	Kpl/ Pcs	Omakotitalot, yms. Single-family houses, etc.	Porraskäytävän ovet, yms. Staircase doors, etc.	Porraskäytävän ovet, yms. (oviautomaattikka) Staircase doors, etc. (Door automation)	Koulut, sairaalat, yms. (Oviautomaattikka) Schools, hospitals, etc. (Door automation)
Hahn M751 (3-pcs)	2	100	100	-	-
	3	160	160	130	130
HAHN R751	2	100	100	-	-
	3	160	160	130	130
Giesse Domina HP (3-pcs)	2	100	-	-	-
	3	160	160	130	130

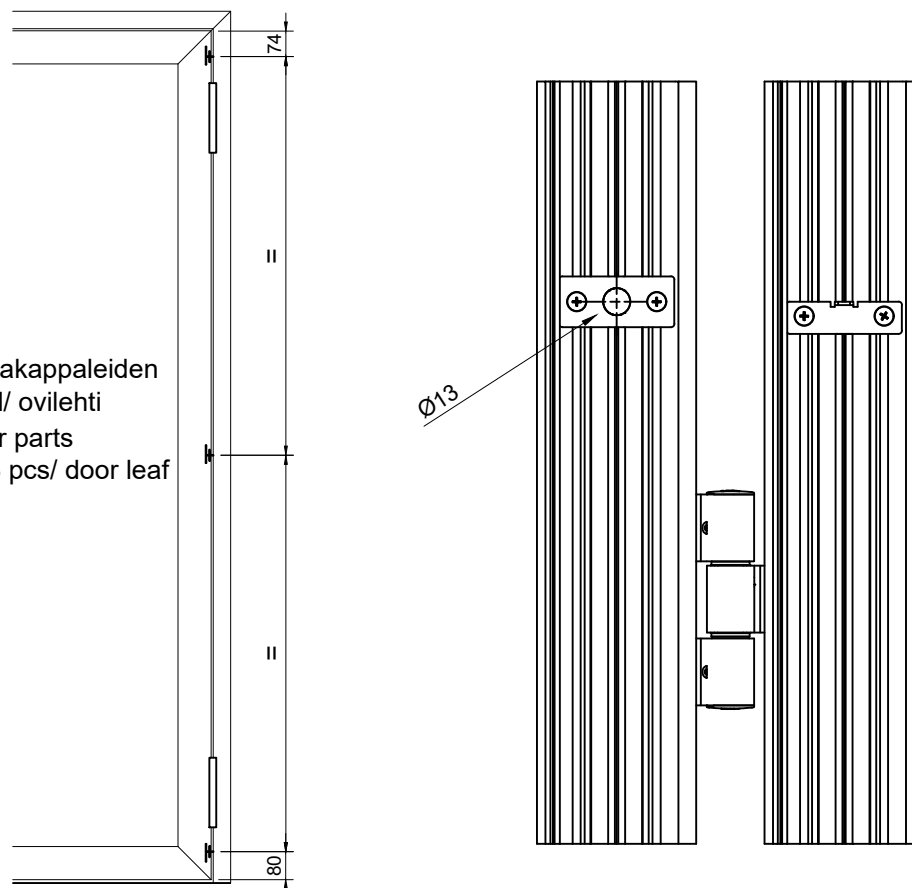


Varmistustappien paikat ja asennus

Locations and installation of security pins

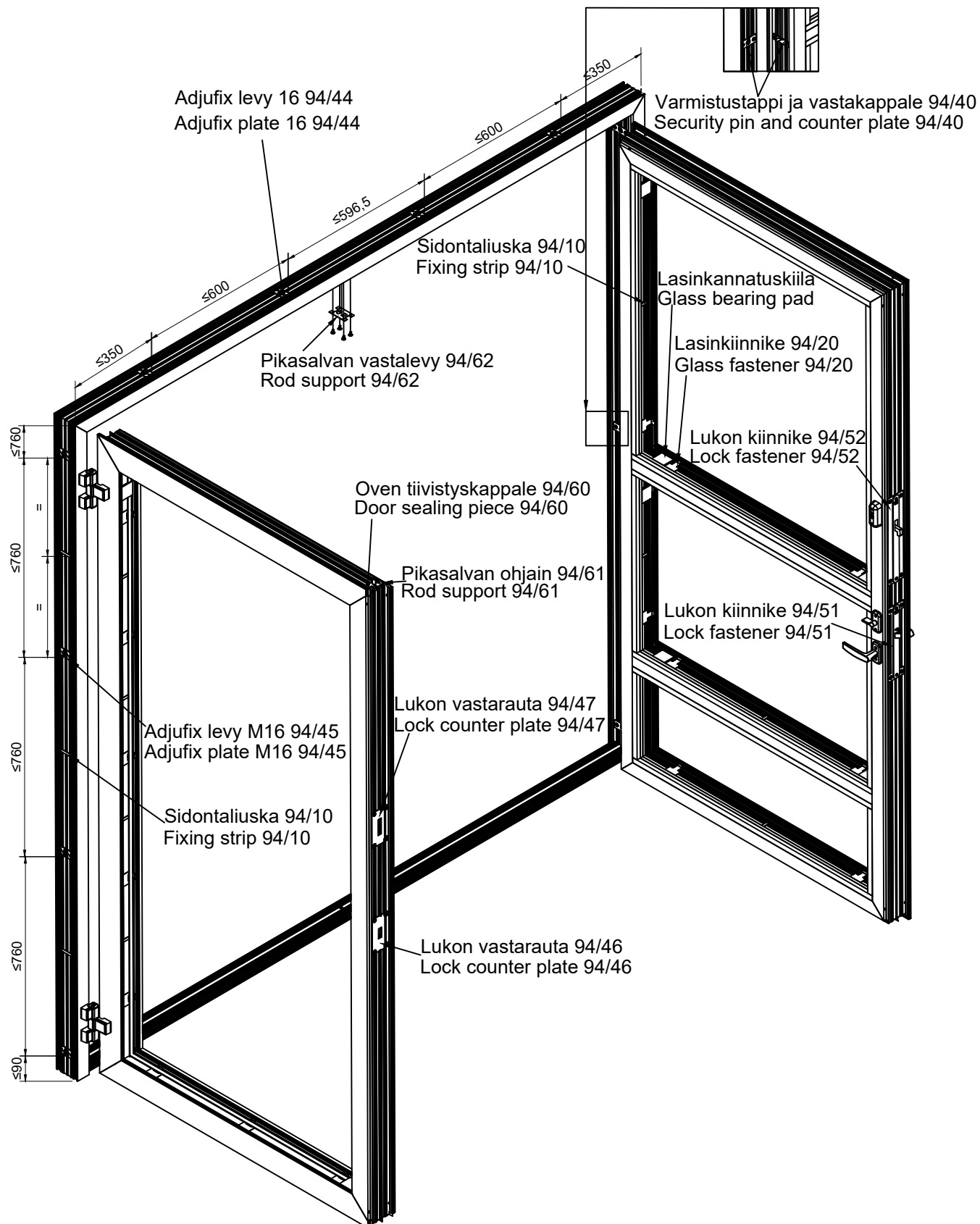


Varmistustappien ja vastakappaleiden
Purso 94/40 sijoitus 3 kpl/ ovilehti
Security pins and counter parts
Purso 94/40 placement 3 pcs/ door leaf



Sidontaliuskat ja kiinnikkeet

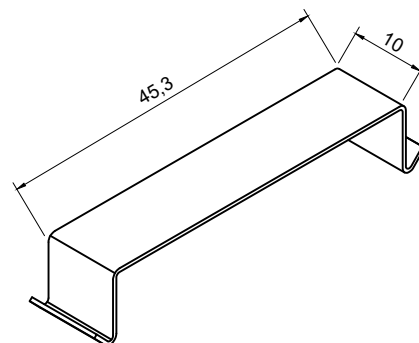
Fixing strips and fasteners



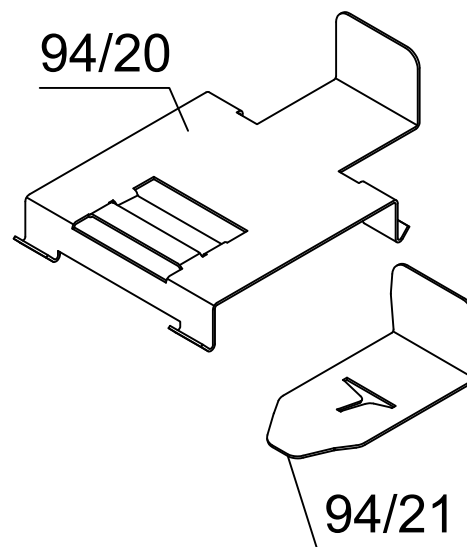
Lasin- / umpiosankiinnikkeiden ja sidontaliuskojen määrä paloluokka EI30
Amounts of glass / filling fasteners and fixing strips fire classification EI30

Sidontaliuskat
Fixing strips

Aukon korkeus (mm) Gap height (mm)	Sidontaliuskat 94/10 (kpl)/aukko Fixing strips 94/10 (pcs)/gap			
2245 - 2704	11	10	10	10
1788-2244	9	8	8	8
1328-1787	7	6	6	6
1087-1327	5	4	4	4
544-1086	2	1	1	1
331-543	1	0	0	0
	608-1014	335-607	246-334	72-245
	Aukon leveys (mm) Gap width (mm)			

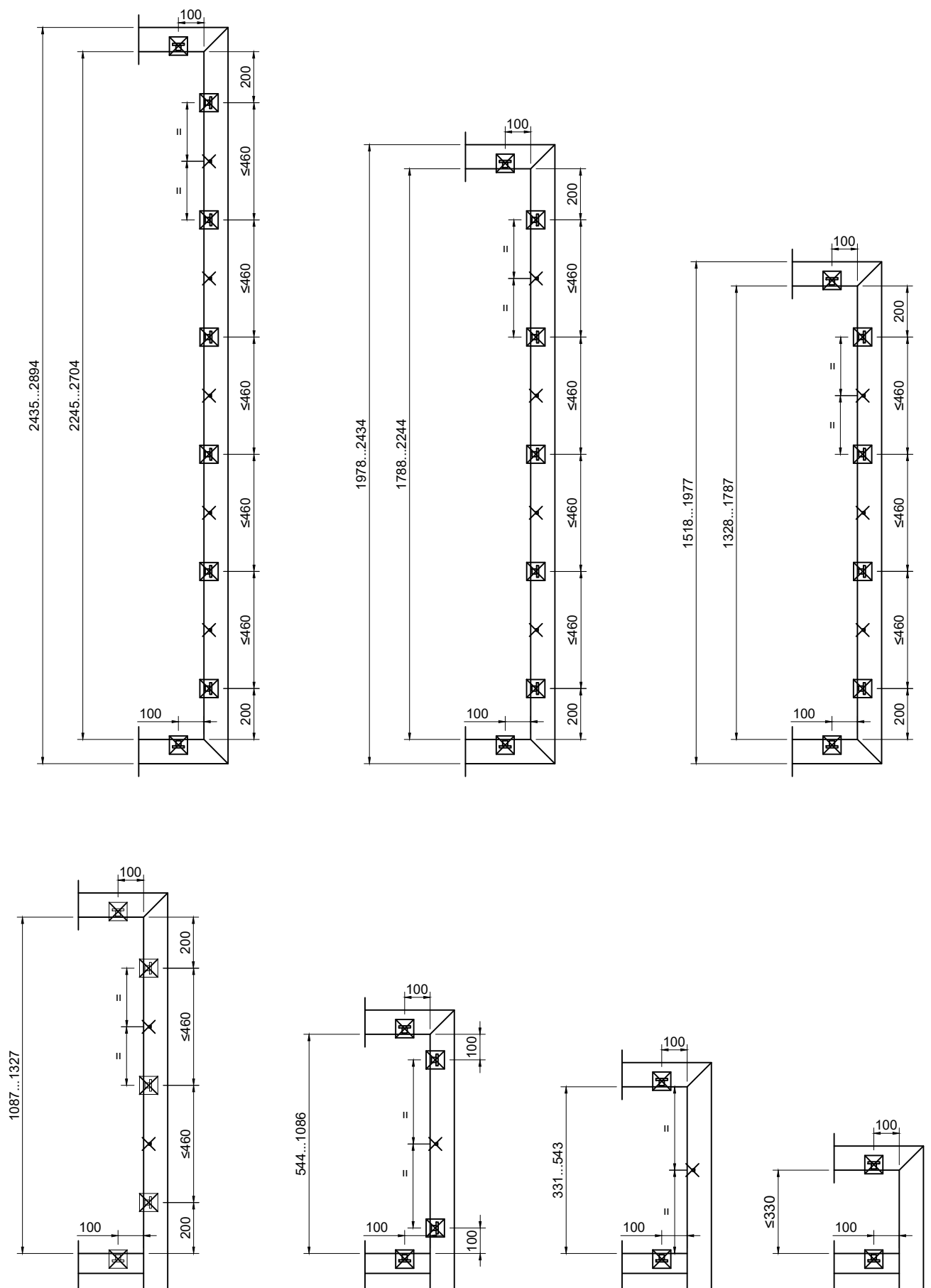

Lasinkiinnikkeet
Glass and filling fasteners

Aukon korkeus (mm) Gap height (mm)	Lasinkiinnike 94/20 & 94/21 (kpl)/aukko Glass fastener 94/20 & 94/21 (pcs)/gap			
2245 - 2704	17	16	15	14
1788-2244	15	14	13	12
1328-1787	13	12	11	10
1087-1327	11	10	9	8
544-1086	9	8	7	6
331-543	5	4	3	2
	608-1014	335-607	246-334	72-245
	Aukon leveys (mm) Gap width (mm)			



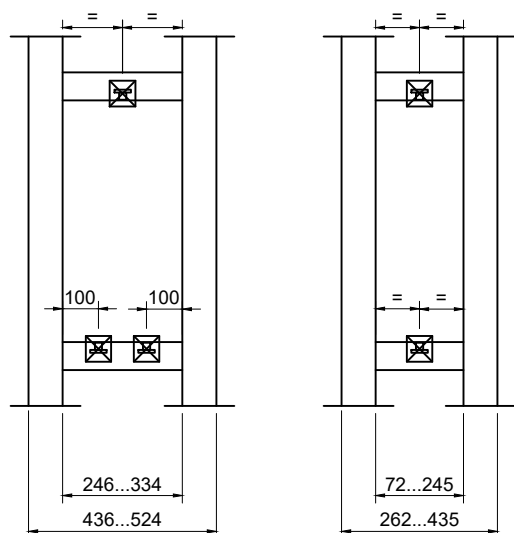
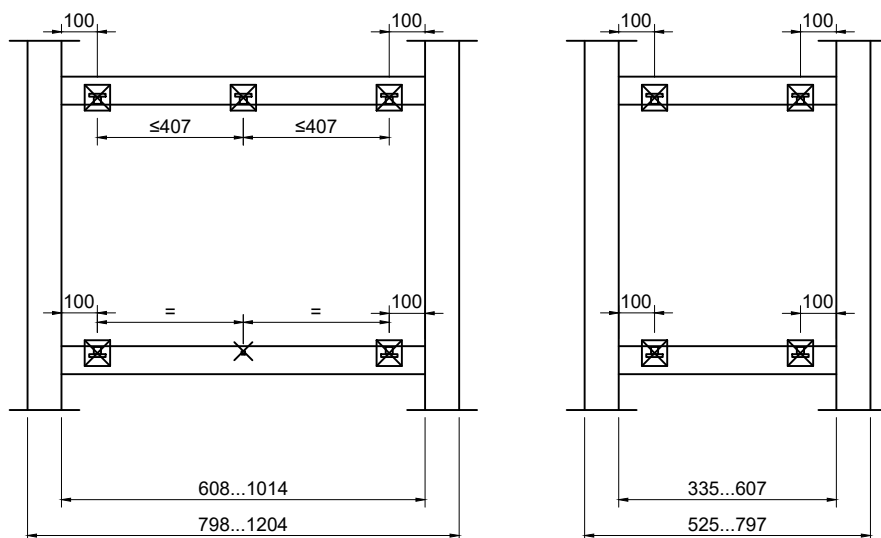
Lasin-/ umpiosankiinnikkeiden määrä ja paikat (pystyreunat)

Locations and amounts of glass / filling fasteners (vertical corners)

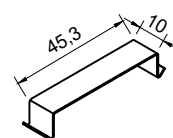


Lasin-/ umpiosankiinnikkeiden määrä ja paikat (vaakareunat)

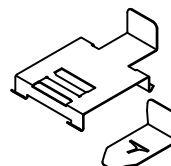
Locations and amounts of glass / filling fasteners (horizontal corners)



Sidontaliuska 94/10
Fixing strip 94/10

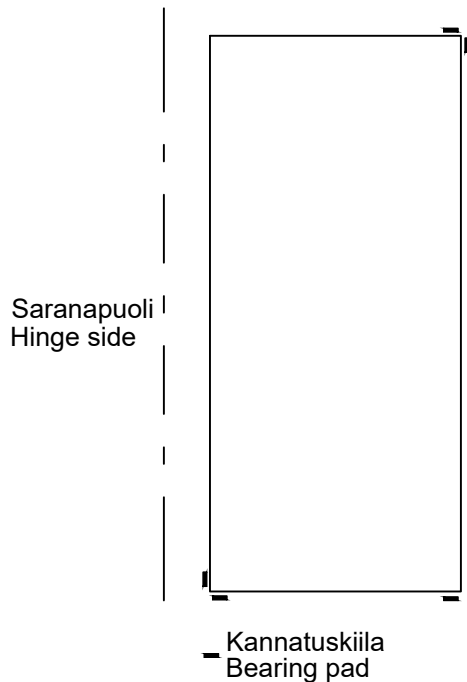


Lasinkiinnike 94/20 + 94/21
Glass fastener 94/20 + 94/21



Oven lasitusohje

Glazing instructions of door



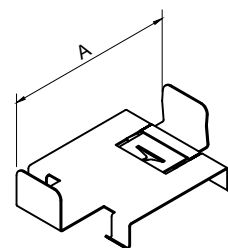
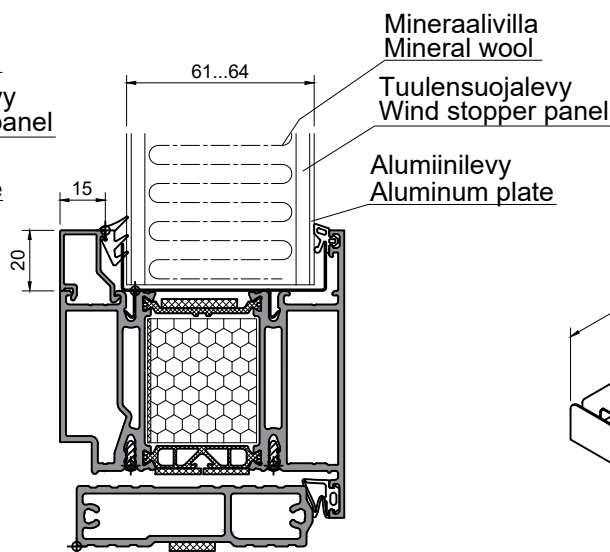
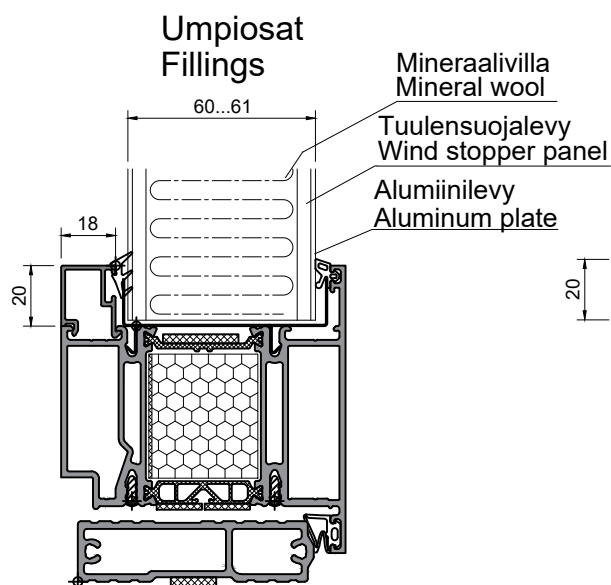
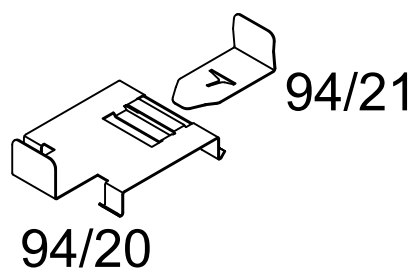
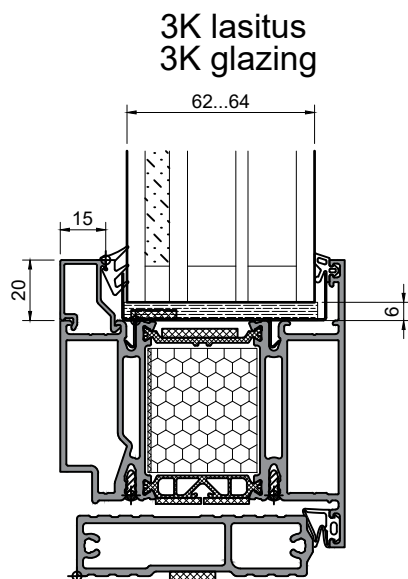
Lasitusohje

Luokitusraportissa on mainittu hyväksytyt lasityypit. Lasin ja runkoprofiilin välys on 6 mm. Valintaohjeissa on esitetty tarvittavien lasituslistojen, tiivisteiden ja tarvikkeiden tyyppi ja sijoitus. Laseina käytetään 3K-eristyslasipaketteja, jotka asennetaan siten, että palolasi on sisäpuolella eli lasituslistan puolella. Sateelle alttiina olevissa ovissa tehdään kyntetilan alareunaan tuuletusreiät. Lasien pysyminen paikoillaan palotilanteessa varmistetaan lasinkiinnikkeillä. Ennen kiinnikkeiden asennusta liimataan kyntetilaan profiilin lämpökatkon pintaan palotiiviste PYRO3. Lasin kiinnikkeen runko 94/20 painetaan runkoprofiilin uriin ja kyntetilan sisäreunaan liimataan palotiiviste Pyro2. Lasin asennuksen jälkeen painetaan lasin kiinnike 94/21 paikoilleen. Lasin kiilauksessa käytetään puukiiloja (esim. pyökki tai tammi). Sisäpuolelle asennetaan lasituslistat tiivisteineen.

Glazing instructions

Accepted glazing types are defined in the classification report. The space between glass and frame profile is 6 mm. The selection guide presents types and locations of needed glazing beads, gaskets and accessory. Glazings are 3K special glazing elements, which are installed so that the fire glass is on the inside (same side as glazing beads). If exposed to the rain, ventilation gaps can be made to the door. With glass fasteners the glazings' staying in place is ensured. Before installation of glass fasteners, Pyro 3 fire seal is glued on top of the profile's thermal break. The frame of glass fastener 94/20 is pressed into the grooves of the frame profile and the fire seal Pyro 2 is glued in its place. After installing the glazing element, the glass fastener 94/21 is pressed into its place. Wood wedges (such as beech or oak) are used for wedging the glass. Glazing beads with gaskets are installed on the inside.

Lasituslistojen valinta Selecting glazing beads



Lasin/umpiosan paksuus Glazing/fillings thickness	Ulkopuoli Outside	Sisäpuoli Inside		Lasinkiinnike Glass fastener	Palotiiviste Fire gasket	
	Tiiviste Gasket	Lasituslista Glazing bead	Tiiviste Gasket		Pyro 2	Pyro 3
60	DX783	4069 tai/or 22630	PX5	94/20+94/21	1	1
61	DX783	4069 tai/or 22630	PX4	94/20+94/21	1	1
62	DX783	3278 tai/or 22630	PX4	94/20+94/21	1	1
63	DX783	3278 tai/or 22630	PX4	94/20+94/21	1	1
64	DX783	3278 tai/or 22630	PX4	94/20+94/21	1	1

Lasipaketin asennus

Installation of glass package

- ① Palotiiviste Pyro3 liimataan lämpökatkon pintaan ja lasitustiiviste DX783 asennetaan paikoilleen.

Fire seal Pyro3 is glued to the surface of the thermal break and the glazing gasket DX783 is installed in place

- ② Lasinkiinnikkeet ja sidontaliuskat asennetaan paikoilleen.
Glass mounts and the fixing strips are installed in position.

- ③ Lasinkannatuskiilat asetetaan paikoilleen.
Huom! muovikiiloja ei saa käyttää.

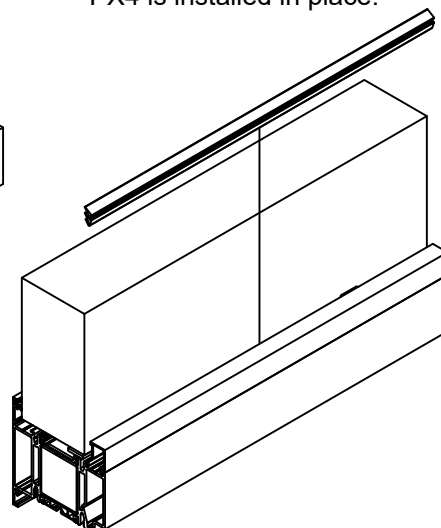
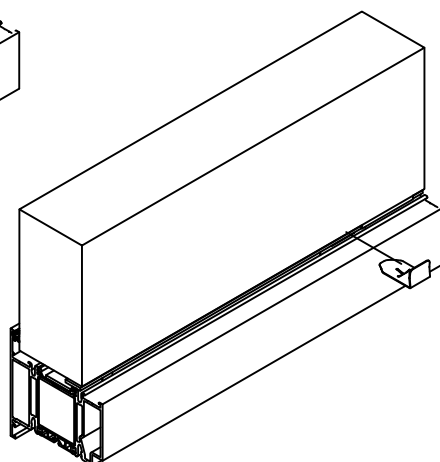
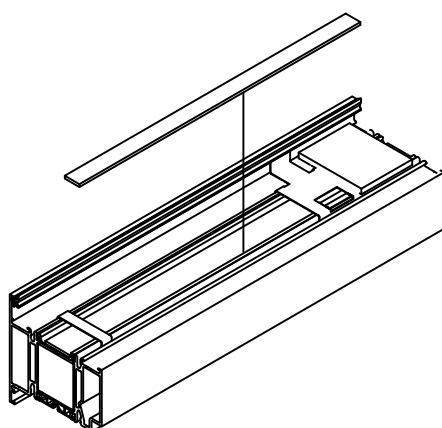
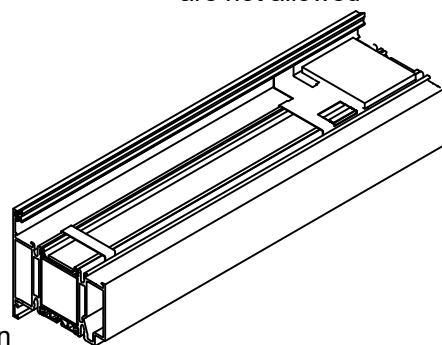
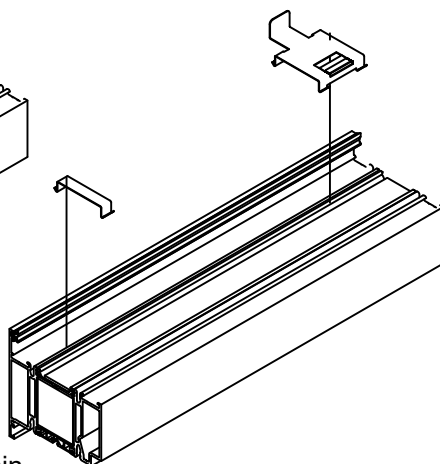
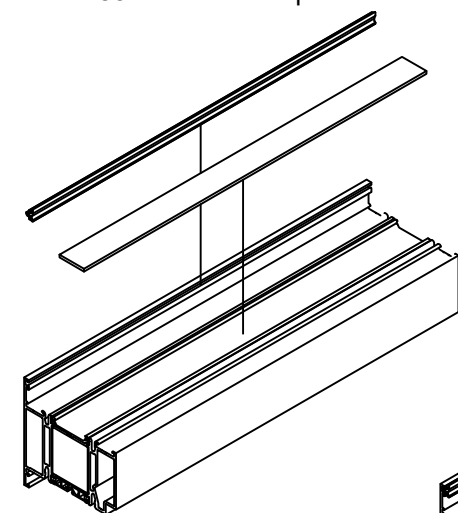
Glass support wedges are set in place.
Note! plastic wedges are not allowed

- ④ Palotiiviste Pyro2 leikataan niin, että se ei osu lasinkannatuskiiloihin. Tämän jälkeen Pyro2 liimataan paikoilleen.

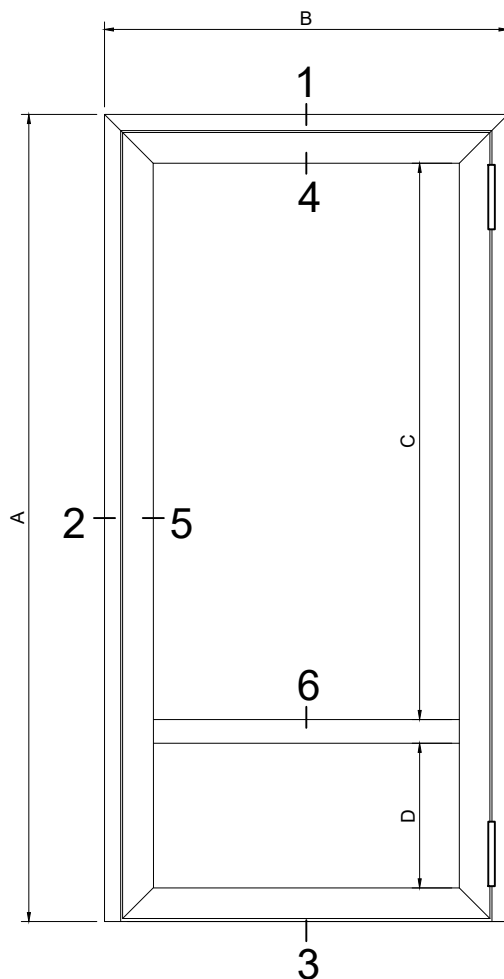
Fire seal Pyro2 is cut so that it does not hit the glass support wedges. After this Pyro2 is glued in place.

- ⑤ Lasi asennetaan paikalleen ja lukitaan lasinkiinnikkeen lisäosien avulla.
The glass is installed in place and is locked with the help of glass fastener add-ons.

- ⑥ Lasituslista ja lasitustiiviste PX4 asennetaan paikoilleen.
Glazing strip and glazing gasket PX4 is installed in place.

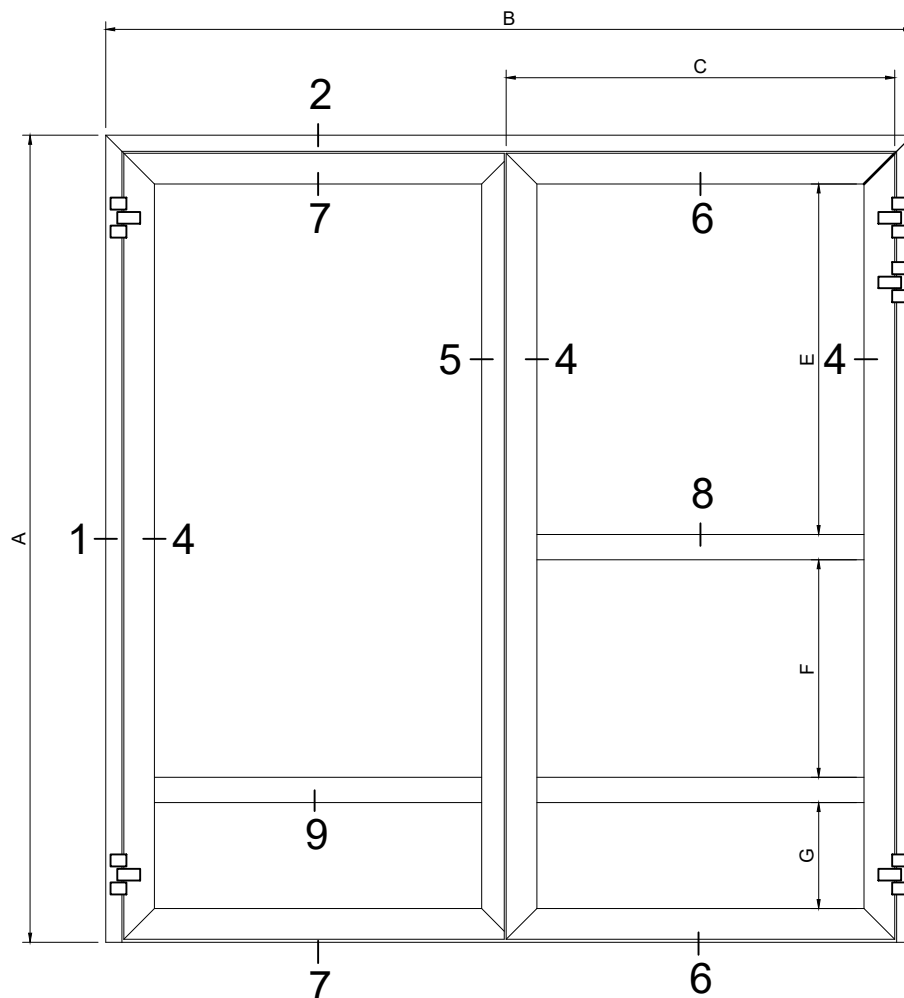


1-lehtisen oven profiilien katkaisumitat ja kokoonpano Cut lenghts and assembly of single leaf door's profiles



Osa Part	Nimike Title	Profiili Profile	Lukumäärä Amount	Katkaisupituus Cut lenght	Sahauskulmat Cut angles
1	Karmi vaaka Horizontal frame	94010	1	B	45/45
2	Karmi pysty Vertical frame	94010	2	A	45/45
3	Kynnys Threshold	23129	1	B-119	90/90
4	Puite vaaka Horizontal sash profile	94011	2	B-112	45/45
5	Puite pysty Vertical sash profile	94011	2	A-65.5	45/45
6	Väливаaka Transom	94027	1	B-262	90/90

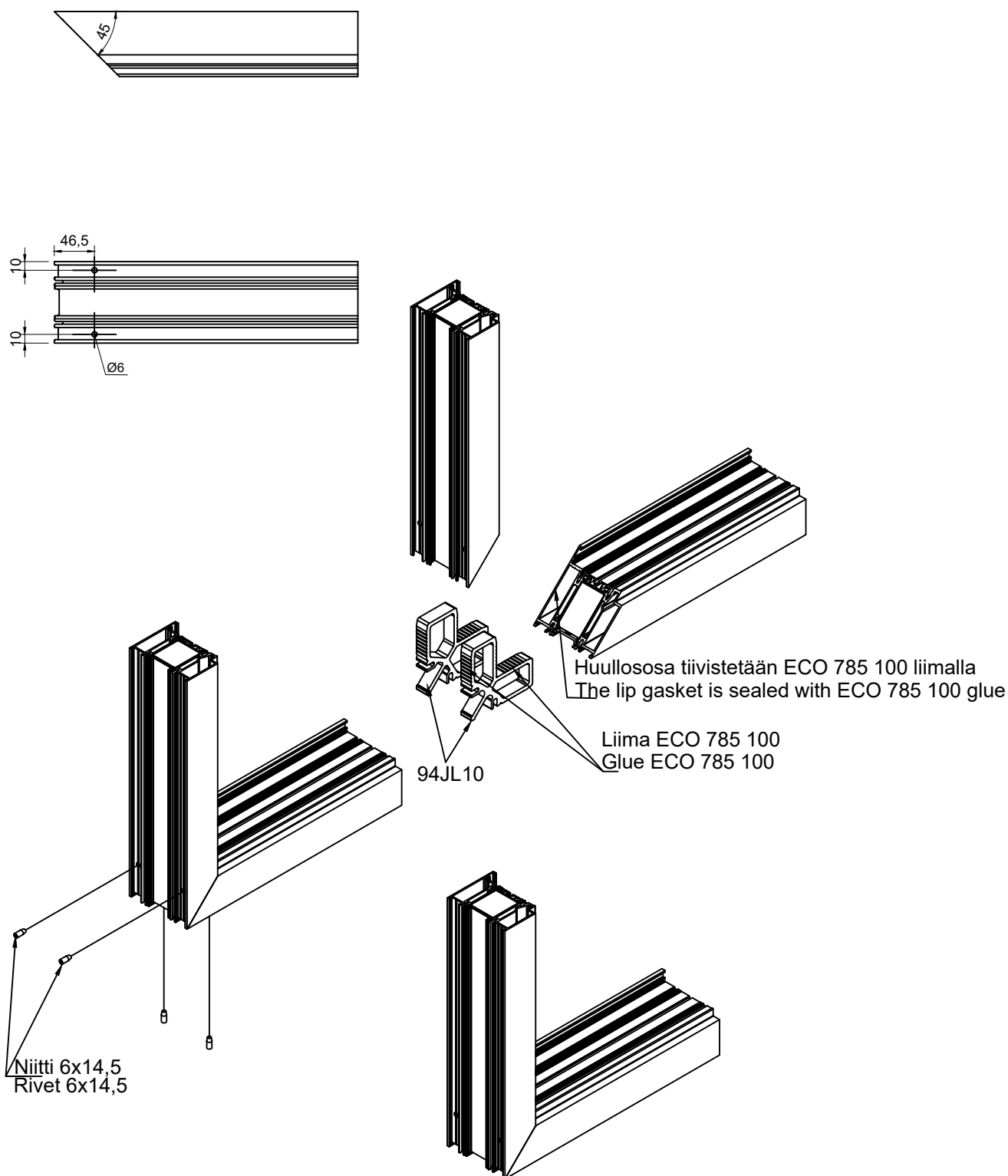
Parioven profiilien katkaisumitat ja kokoonpano Cut lenghts and assembly of double doors profiles



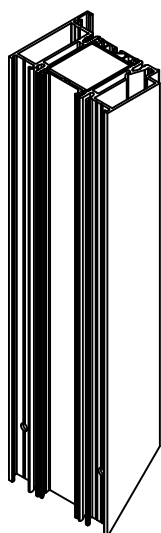
Osa Part	Nimike Title	Profiili Profile	Lukumäärä Amount	Katkaisupituus Cut lenght	Sahauskulmat Cut angles
1	Karmi vaaka Horizontal frame	94010	2	A	45/90, 90/45
2	Karmi pysty Vertical frame	94010	1	B	45/45
3	Kynnys Threshold	23129	1	B-119	90/90
4	Puite vaaka Horizonal sash profile	94011	3	A-65,5	45/45
5	Z-puite pysty, toissij. ovi Vertical Z-profile, slave door	94012	1	A-65,5	45/45
6	Puite vaaka, käyntiovi Horizontal sash, master door	94011	2	C	45/45
7	Puite vaaka, toissij. ovi Horizontal sash, slave door	94011	2	B-C-93	45/45
8	Väliwaaka, käyntiovi Transom, master door	94027	X	C-150	90/90
9	Väliwaaka, toissij. ovi Transom, slave door	94027	X	B-C-243	90/90

Ovikarmin 94010 jiiriliitos lukitustapeilla

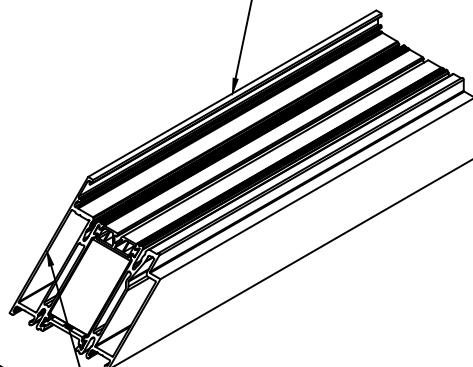
Door frame 94010 mitre joint with pin



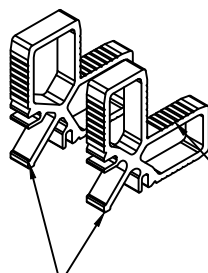
Ovikarmin 94010 jiiriliitos kulmapuristimella
Door frame 94010 mitre joint with corner crimper



94010



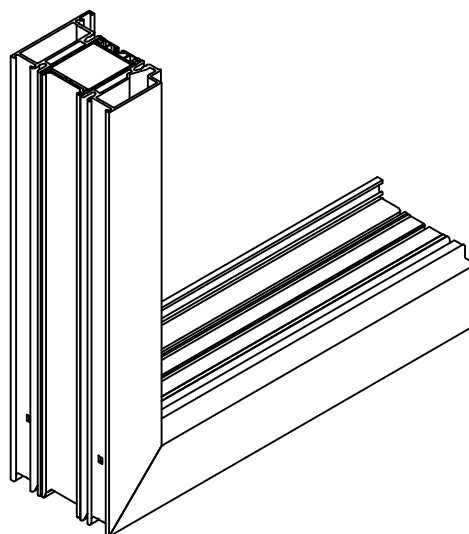
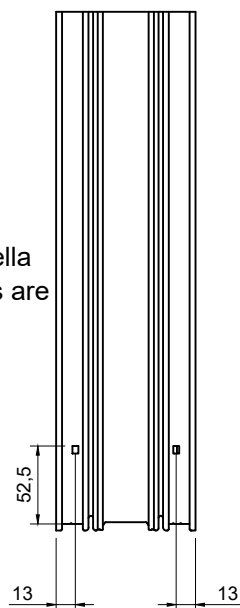
Huullososa tiivistetään ECO 785 100 liimalla
The lip gasket is sealed with ECO 785 100 glue



94JL10

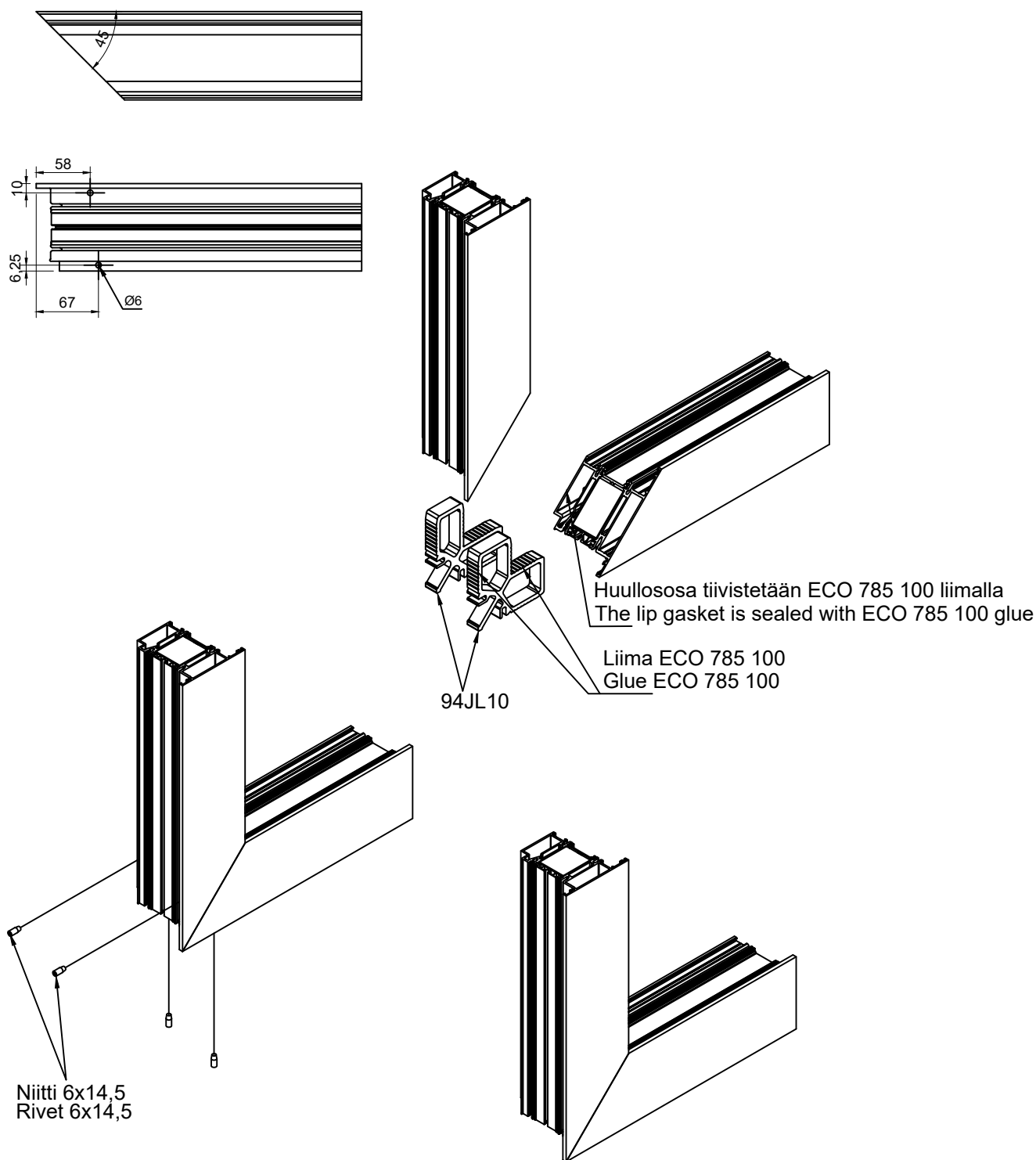
Liima ECO 785 100
Glue ECO 785 100

Kulmapuristuskohdat
tarkastetaan koepuristuksella
Corner compression points are
checked with test pressing

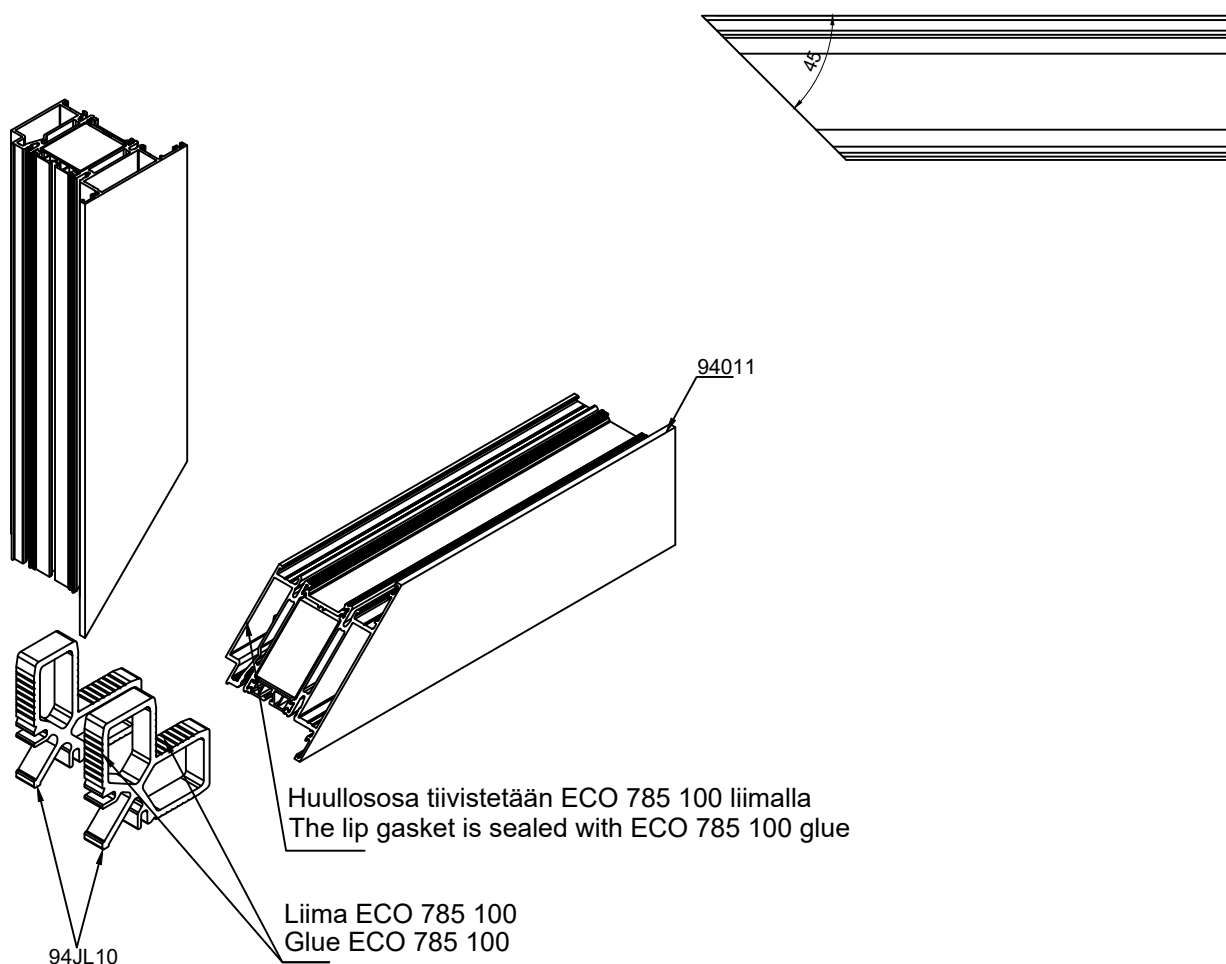


Ovilehden 94011 jiiriliitos lukitustapeilla

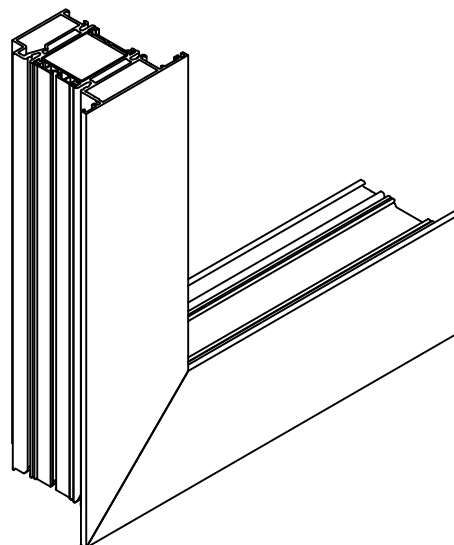
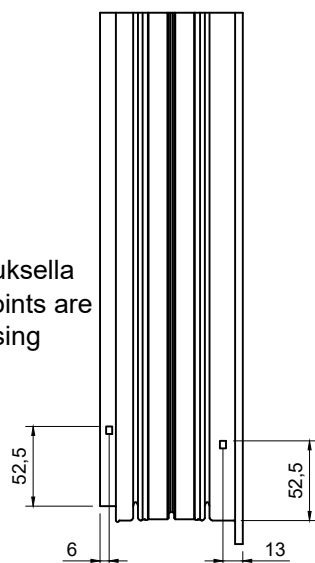
Door leaf 94011 mitre joint with pin



Ovilehden 94011 jiiriliitos kulmapuristimella
Door leaf 94011 mitre joint with corner crimper

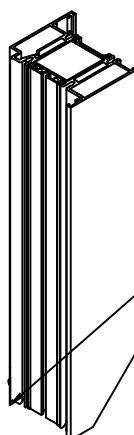
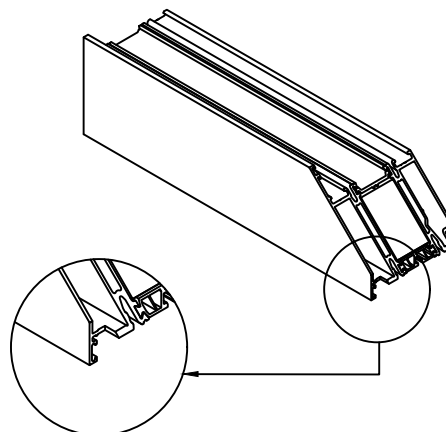
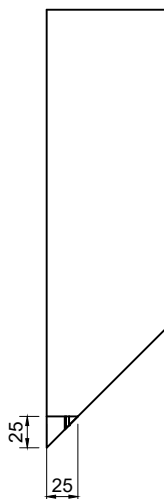
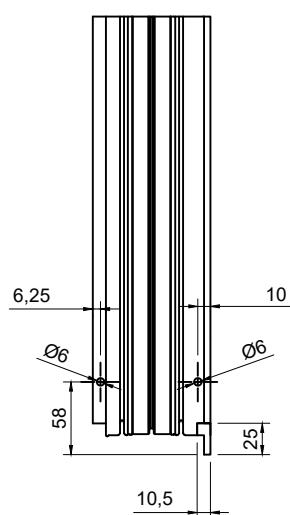


Kulmapuristuskohdat
tarkastetaan koepuristuksella
Corner compression points are
checked with test pressing

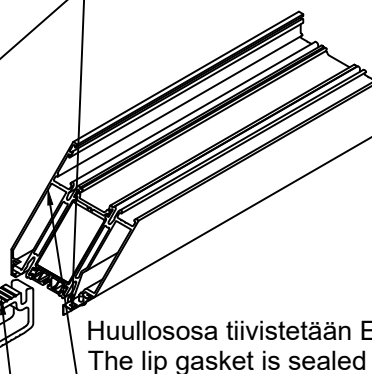


Z-ovilehden 94012 jiiriliitos lukitustapeilla

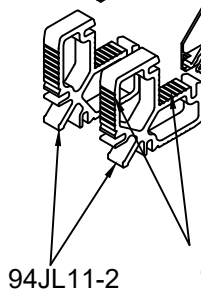
Z-door leaf 94012 mitre joint with pin



Oven tiivistyskappale 94/60
Door sealing piece 94/60

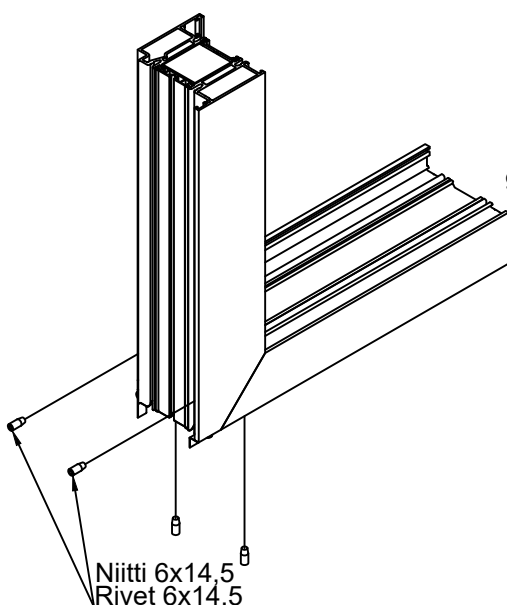


Huullososa tiivistetään ECO 785 100 liimalla
The lip gasket is sealed with ECO 785 100 glue

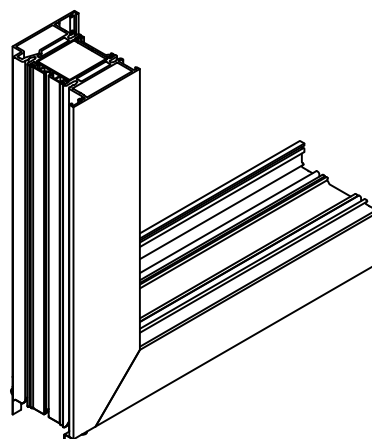


Liima ECO 785 100
Glue ECO 785 100

94JL11-2

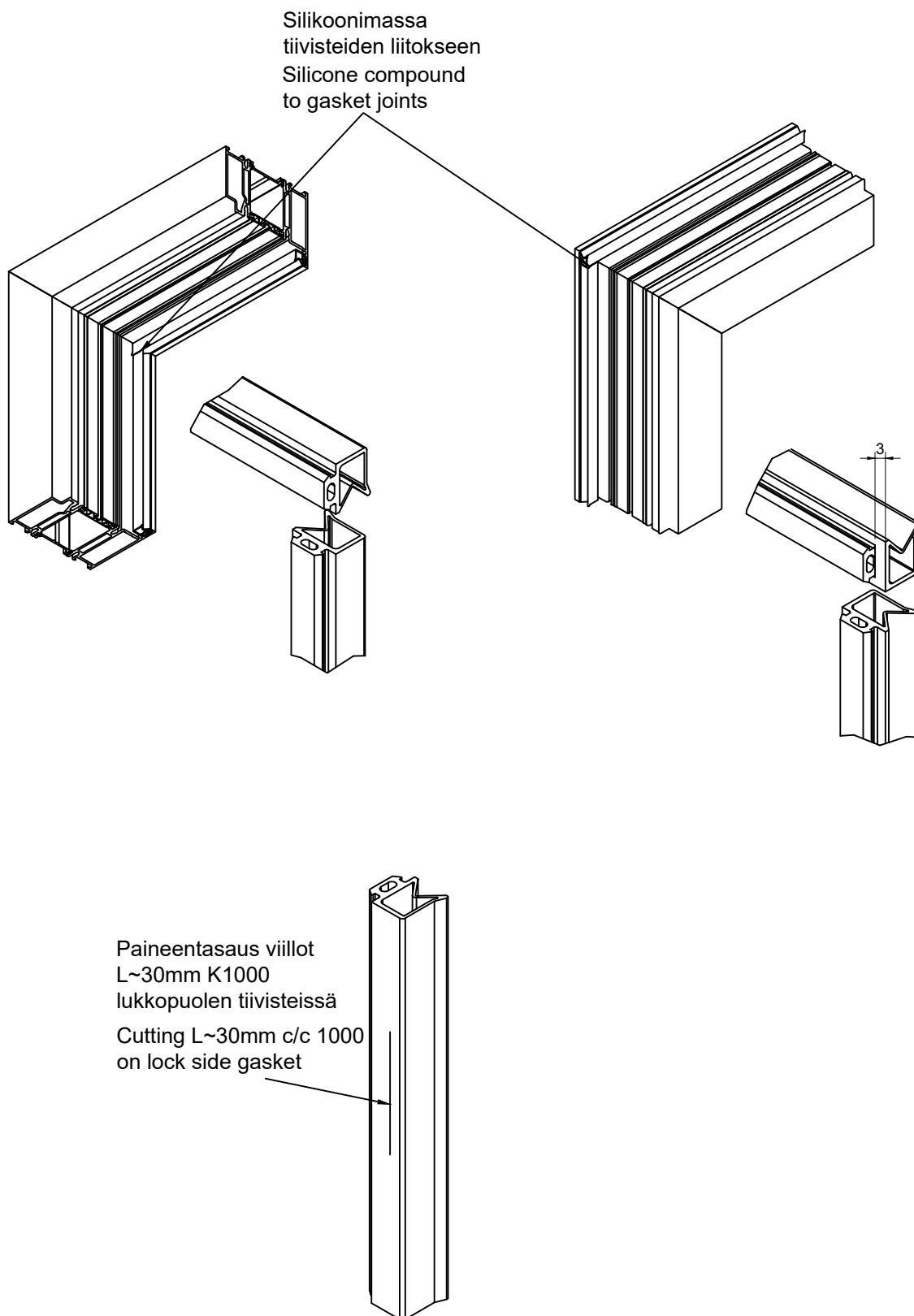


Niitti 6x14,5
Rivet 6x14,5



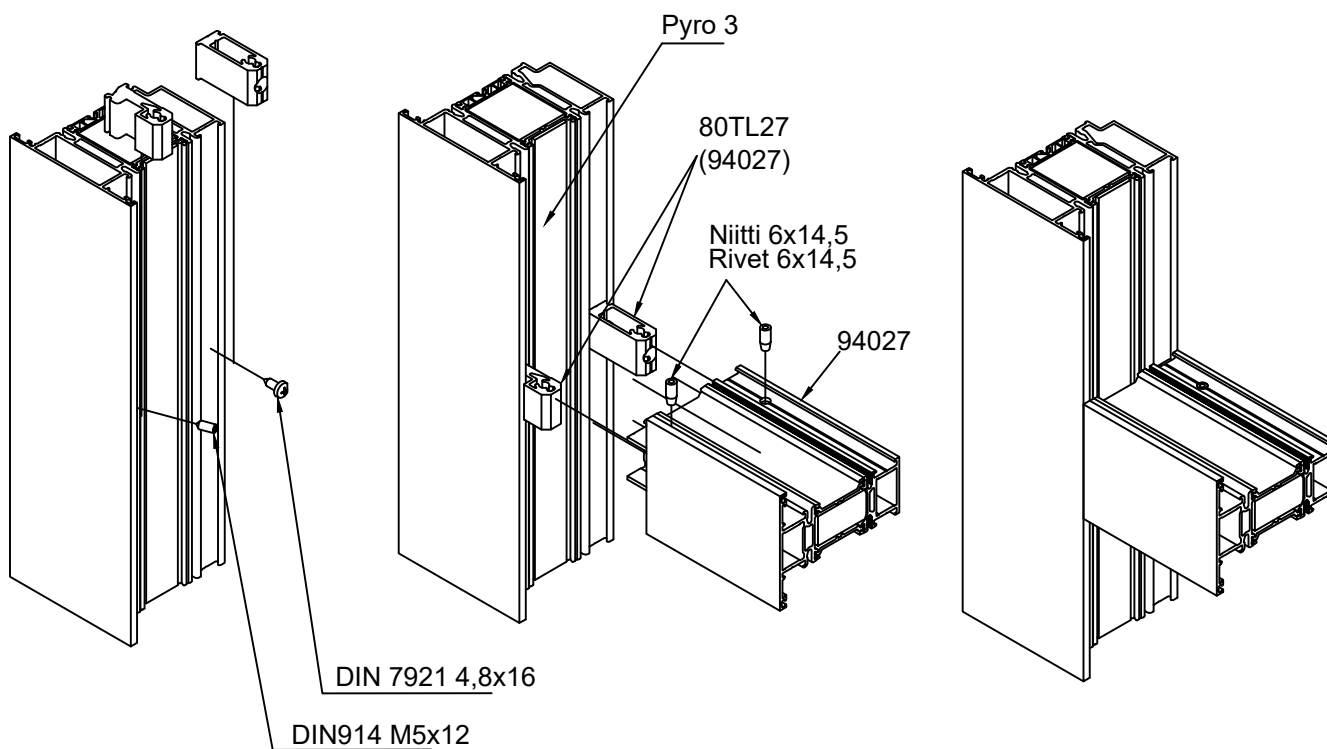
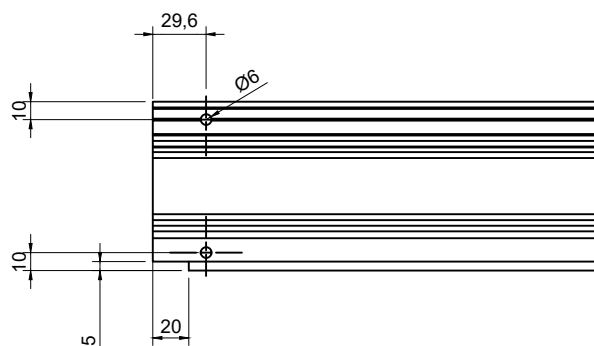
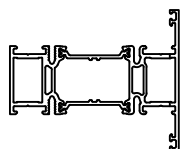
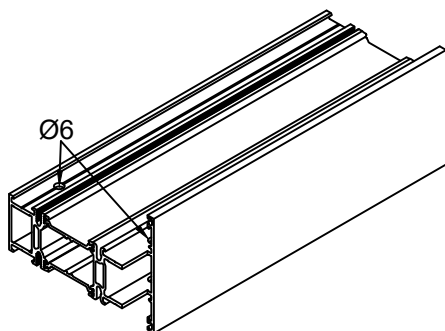
Oven huullostiivisteen DX781 liittäminen

Rebate gasket DX781 joint



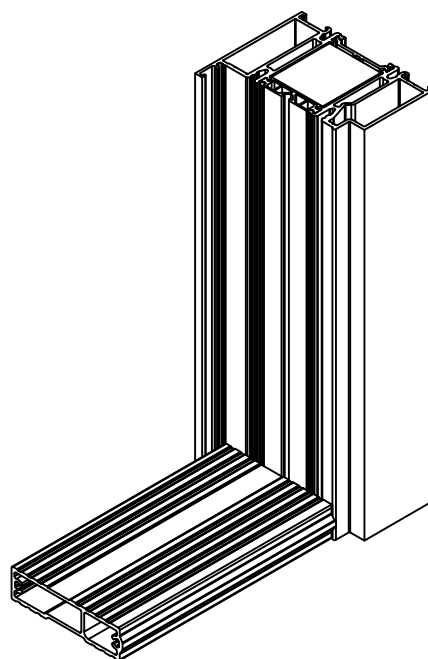
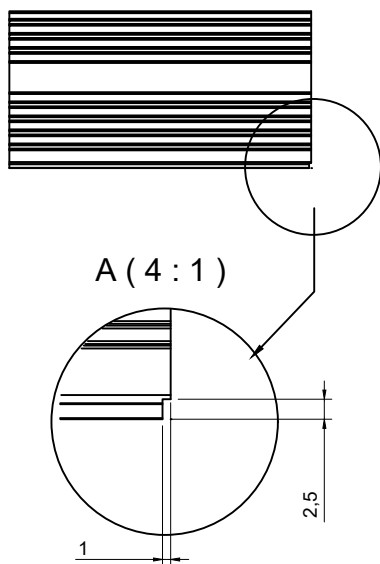
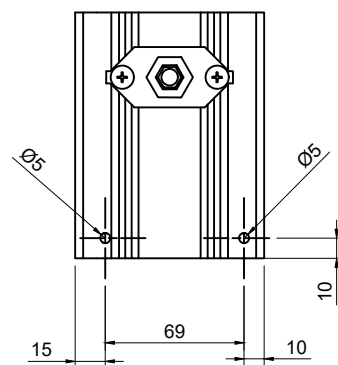
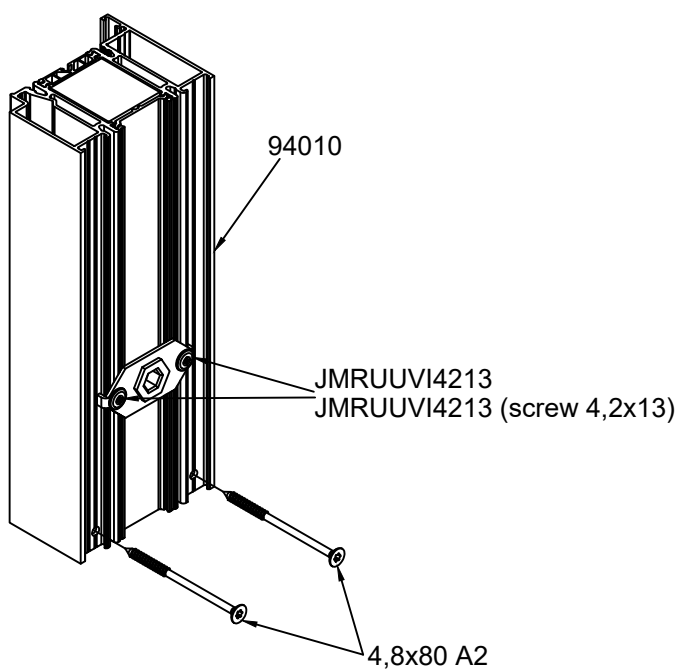
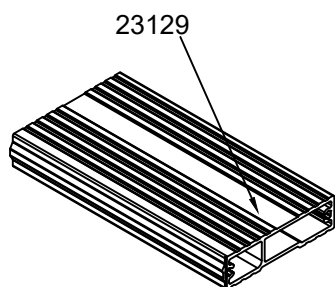
T-liitos 94027

T-joint 94027



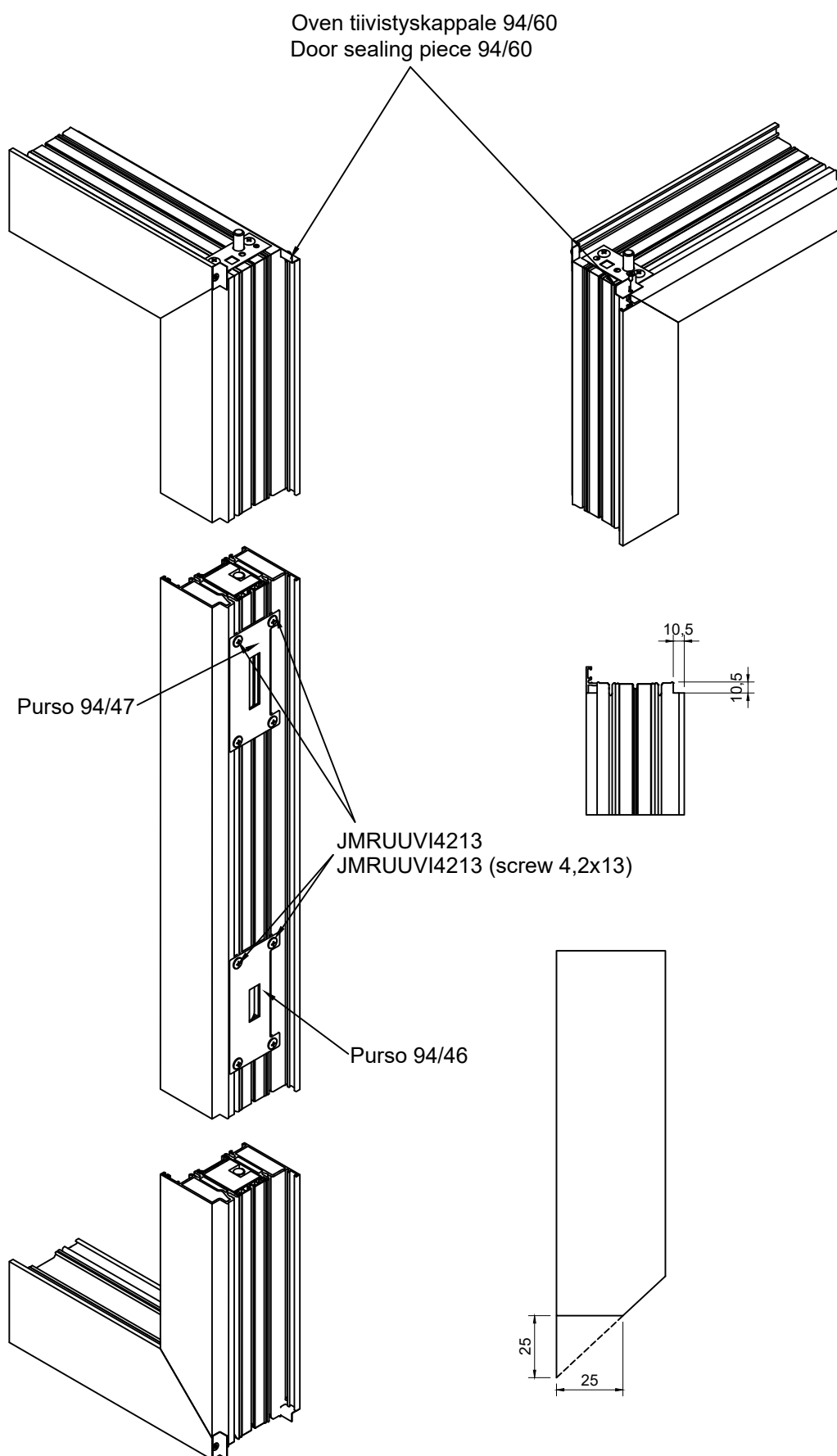
Kynnyksen 23129 koneistus ja asennus

Installation and machining of treshold 23129

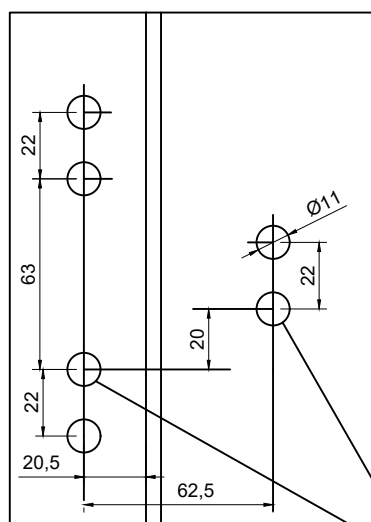


Z-ovilehden 94012 koneistus

Machining for Z-door leaf 94012



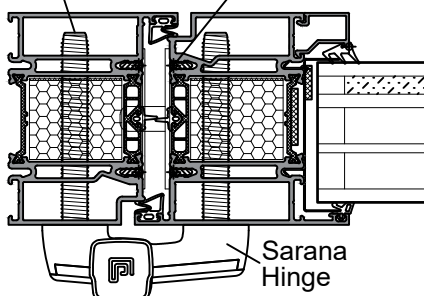
HAHN M751 saranoiden koneistus Machining for HAHN M751 hinges



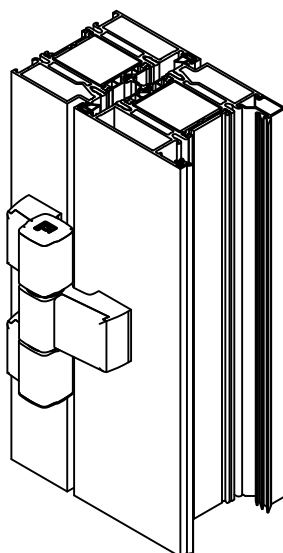
Porausjigi: T251A0000
Drilling jig: T251A0000

ANKKURIRUUVI 4 KPL
ANKKURIRUUVI90 2 KPL
ANCHOR SCREW 4 PCS
ANCHOR SCREW 90 2 PCS

VARMISTUSTAPIT
PURSO 94/40 JA 94/41
3 KPL/OVILEHTI
SECURITY PINS
PURSO 94/40 AND 94/41
3 PCS/DOOR LEAF



Ankkuriruuvi 90, 2 kpl
Anchor screw 90, 2 pcs

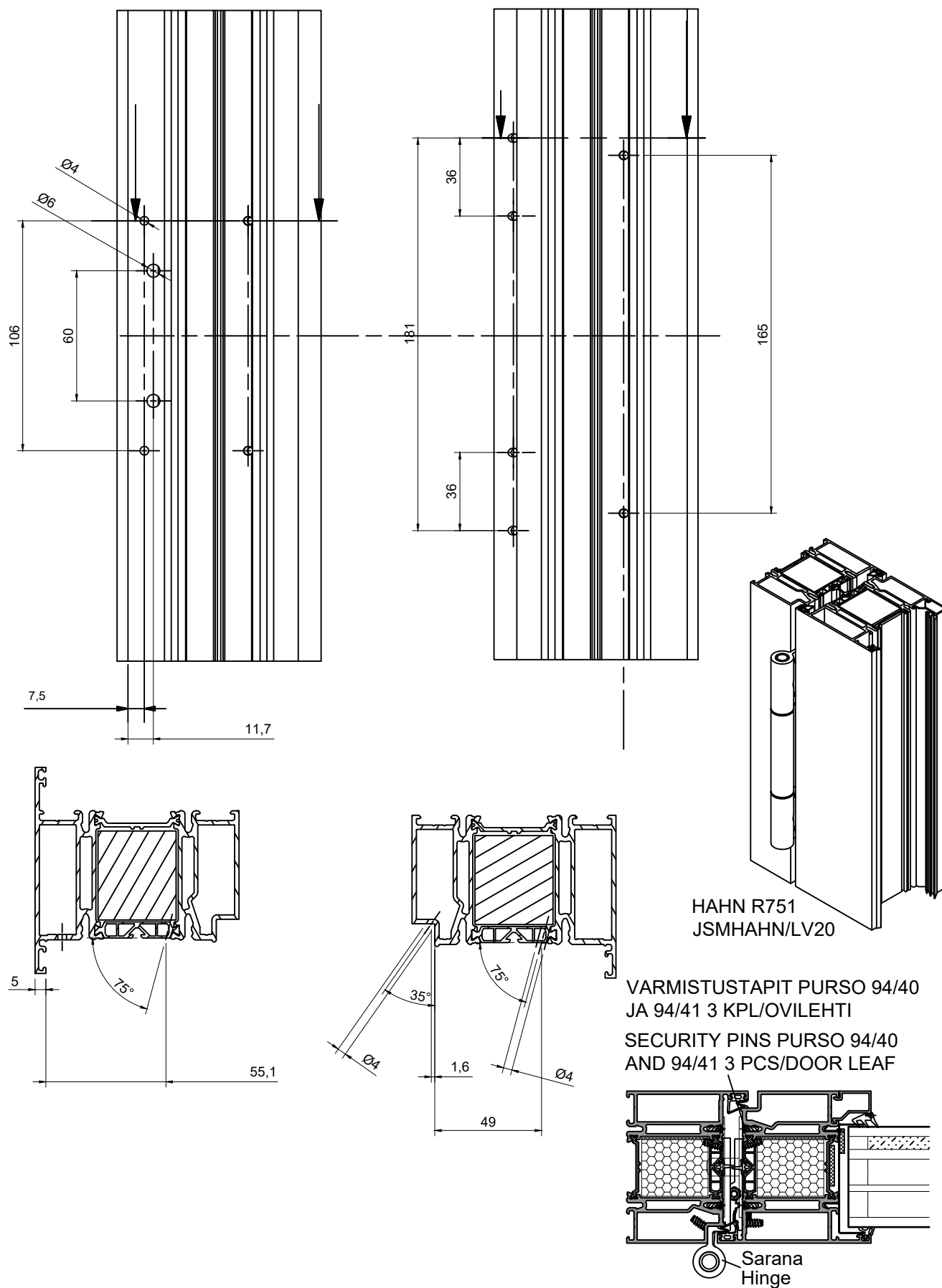


HAHN M751 3-osainen
HAHN M751 3-part

Ankkuriruuvit (HAHNRUUVI90) tilattava erikseen
Anchor screws (HAHNRUUVI90) set to be ordered separately

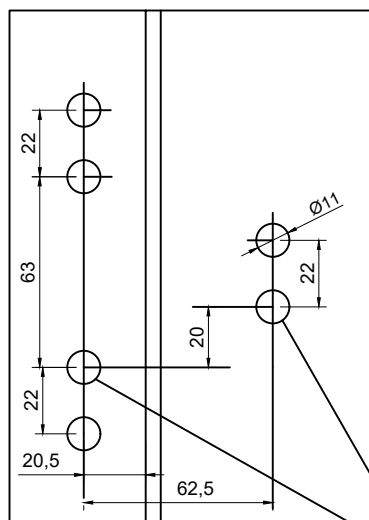
HAHN R751 saranoiden koneistus

Machining for HAHN R751 hinges



GIESSE DOMINA HP 62,5 saranoiden koneistus

Machining for GIESSE DOMINA HP 62,5 hinges

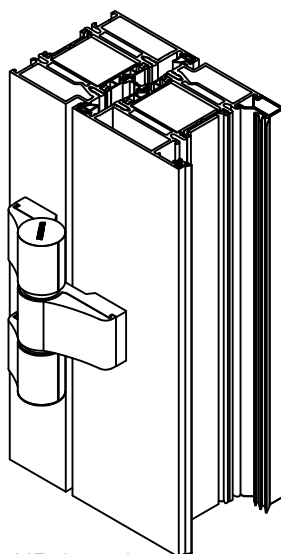
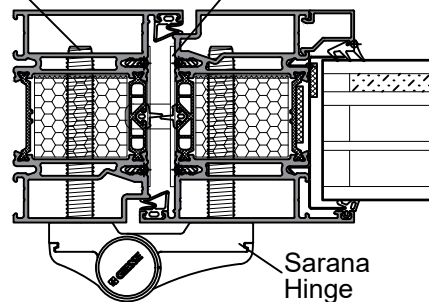


Porausjigi: T251A0000
Drilling jig: T251A0000

Dominaruuvi 90, 2 kpl
Domina screw 90, 2 pcs

DOMINA RUUVI 4 KPL
DOMINA RUUVI90 2 KPL
DOMINA SCREW 4 PCS
DOMINA SCREW 90 2 PCS

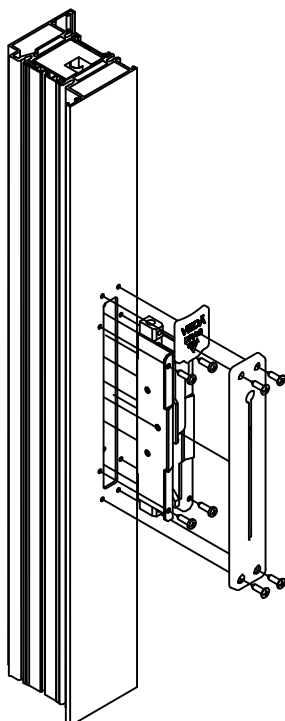
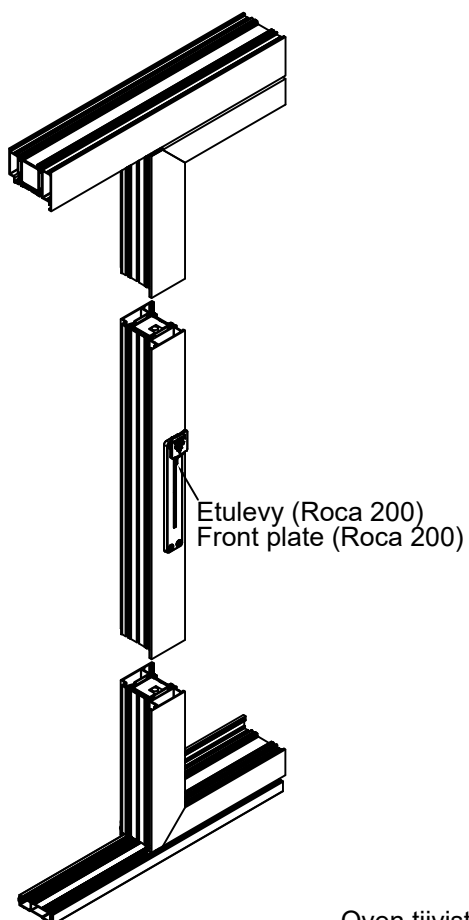
VARMISTUSTAPIT
PURSO 94/40 JA 94/41
3 KPL/OVILEHTI
SECURITY PINS
PURSO 94/40 AND 94/41
3 PCS/DOOR LEAF



Giesse Domina HP 3-osainen
Giesse Domina HP 3-part

Ankkuriruuvit (DOMINARUUVI90) tilattava erikseen
Anchor screws (DOMINARUUVI90) set to be ordered separately

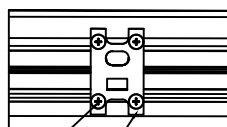
Pikasalpa ROCA 200, Z-ovilehti 94012
Quick bolt ROCA 200, Z-door leaf 94012



Oven tiivistyskappale 94/60
Door sealing piece 94/60

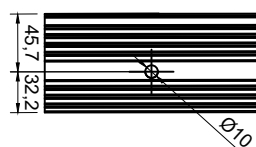
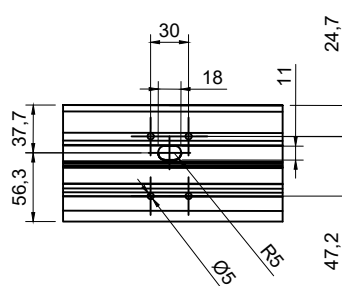
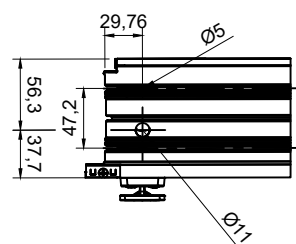
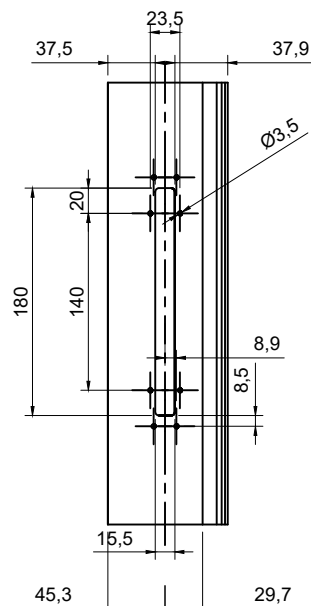
JMRUUVI4213
JMRUUVI4213 (screw 4,2x13)

Pikasalvan ohjain 94/61
Rod support 94/61

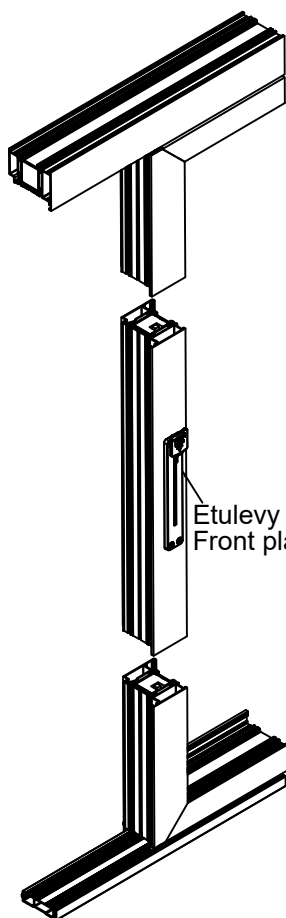


JMRUUVI4213
JMRUUVI4213 (screw 4,2x13)

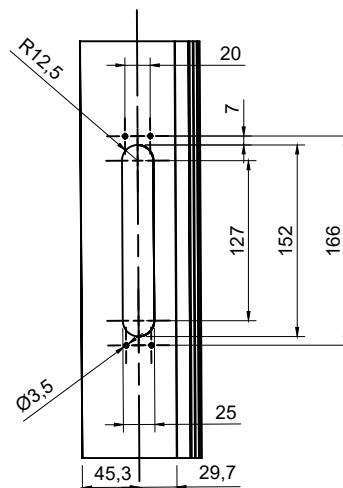
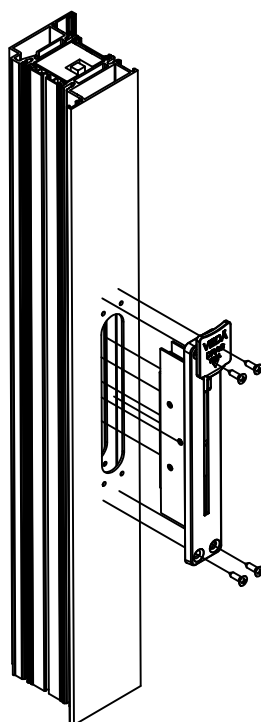
Pikasalvan vastalevy 94/62
Rod support 94/62



Pikasalpa ABLOY DF3001, Z-ovilehti 94012
Quick bolt ABLOY DF3001, Z-door leaf 94012



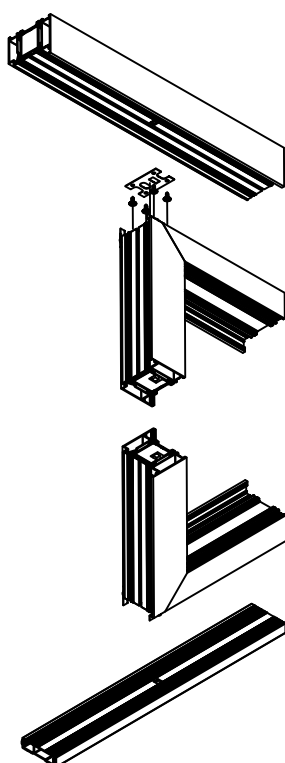
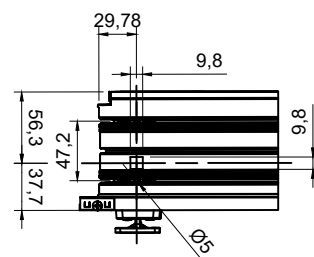
Etulevy (Abloy DF3001)
Front plate (Abloy DF3001)



Oven tiivistyskappale 94/60
Door sealing piece 94/60

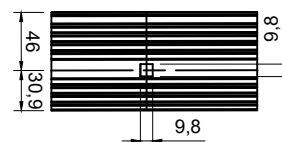
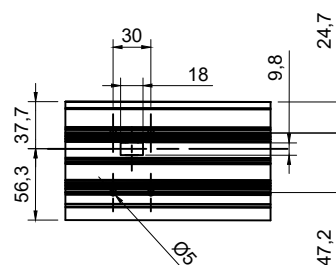
JMRUUVI4213
JMRUUVI4213 (screw 4,2x13)

Pikasalvan ohjain 94/61
Rod support 94/61

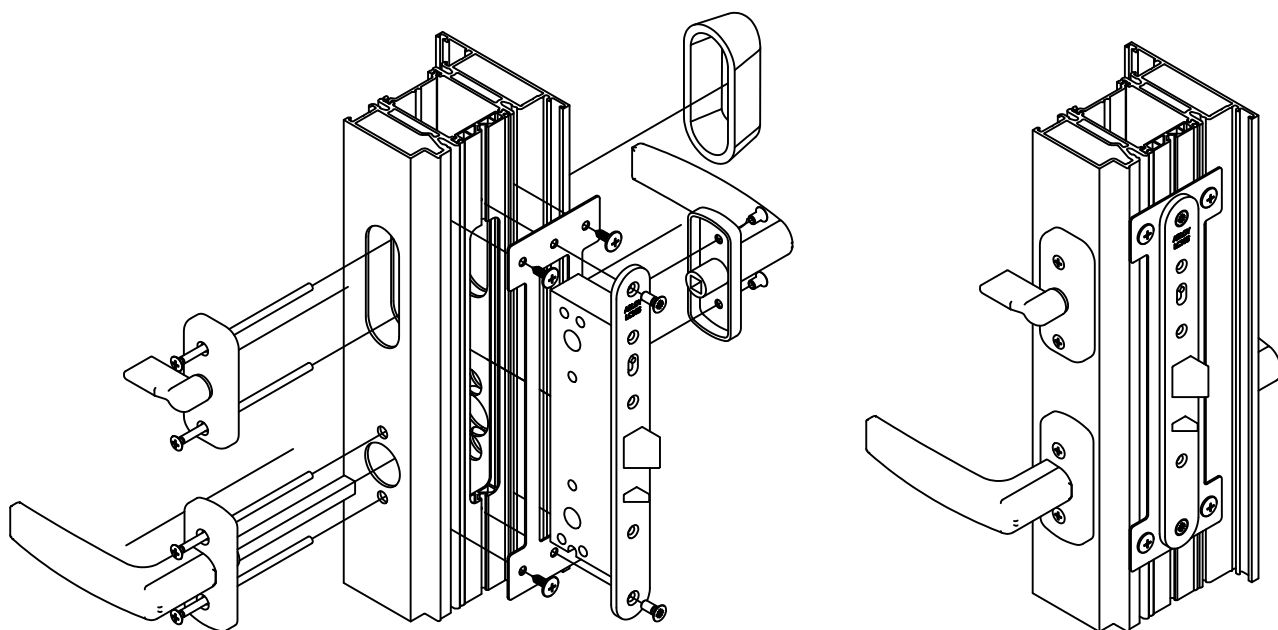


JMRUUVI4213
JMRUUVI4213 (screw 4,2x13)

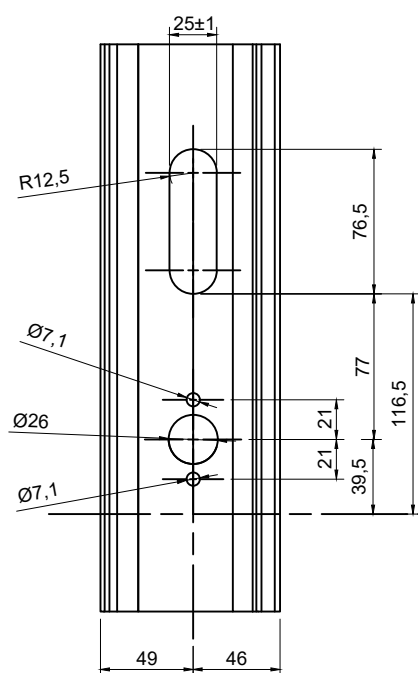
Pikasalvan vastalevy 94/62
Rod support 94/62



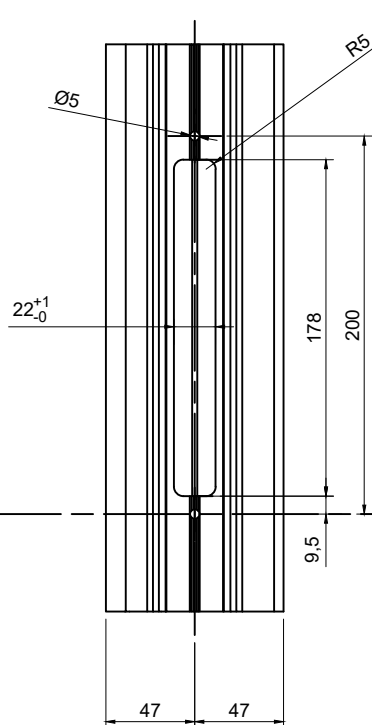
Lukkorungon Abloy LC305 asennus ja koneistus
Assembling and machining of Abloy lock case LC305



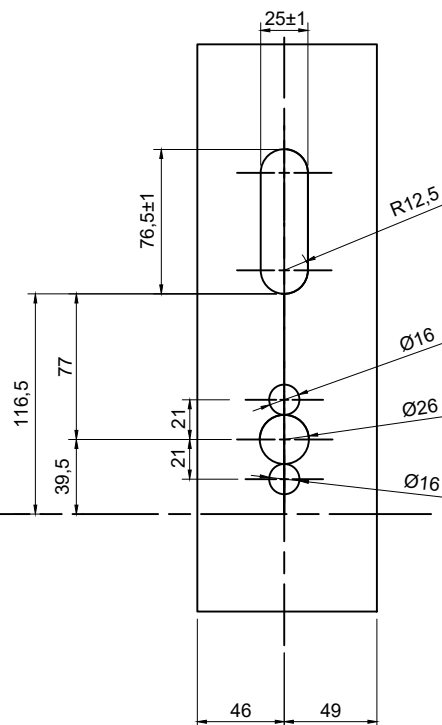
Sisäpuoli
Inside



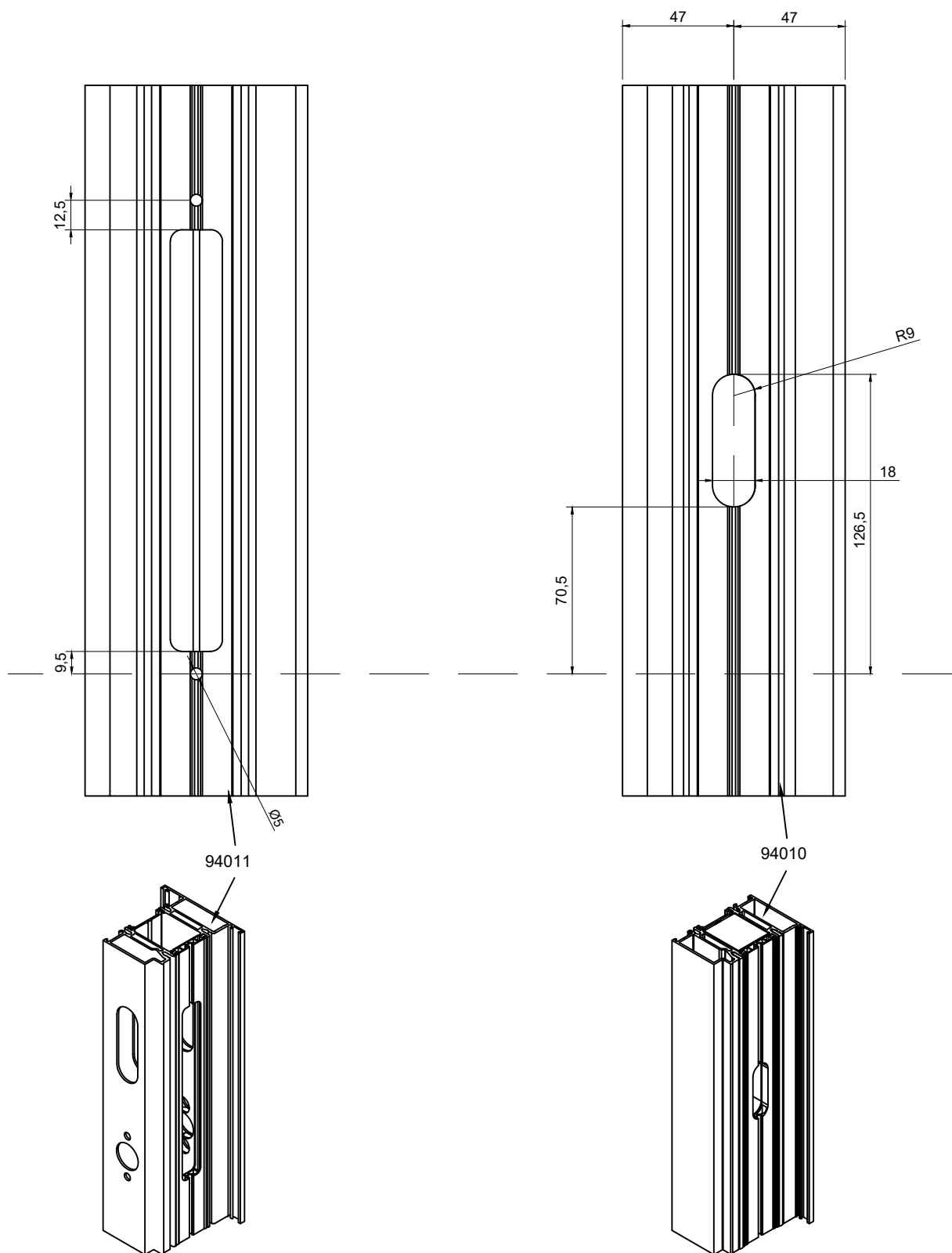
Etupuoli
Frontside



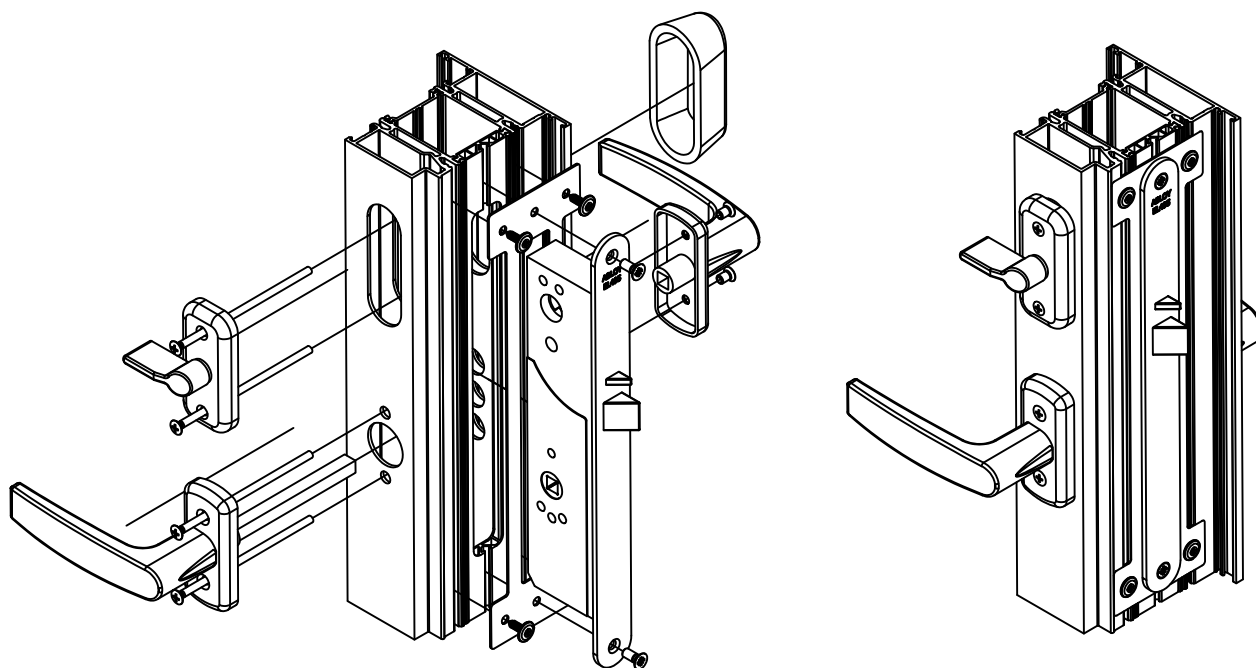
Ulkopuoli
Outside



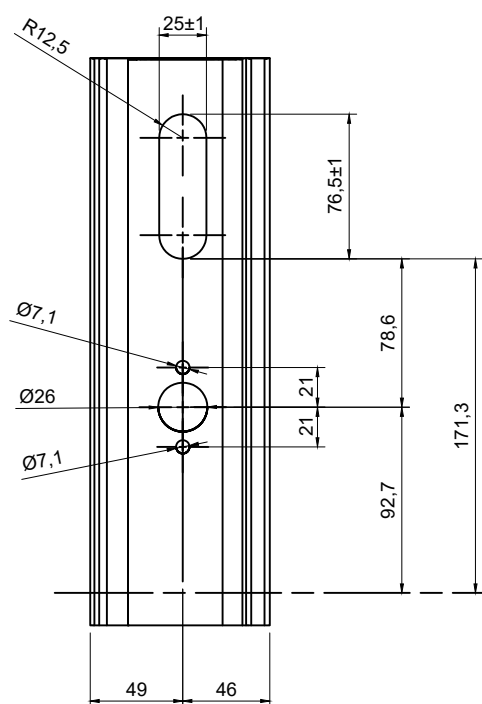
Aluslevyn 94/50 ja lukon vastaraudan 94/46 koneistus
Machining for washer plate 94/50 and striker plate 94/46



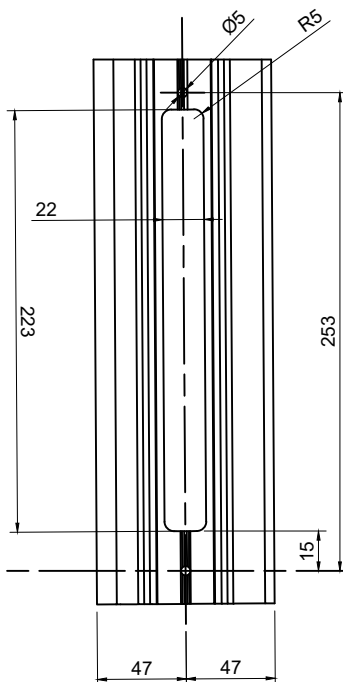
Lukkorungon Abloy EL495FU asennus ja koneistus
Assembling and machining of abloy lock case EL495FU



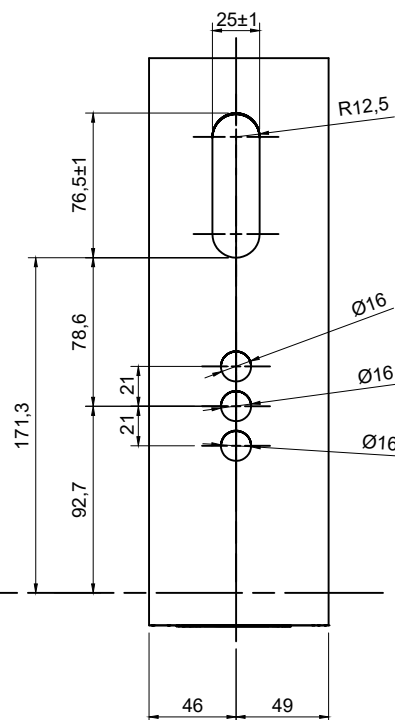
Sisäpuoli
Inside



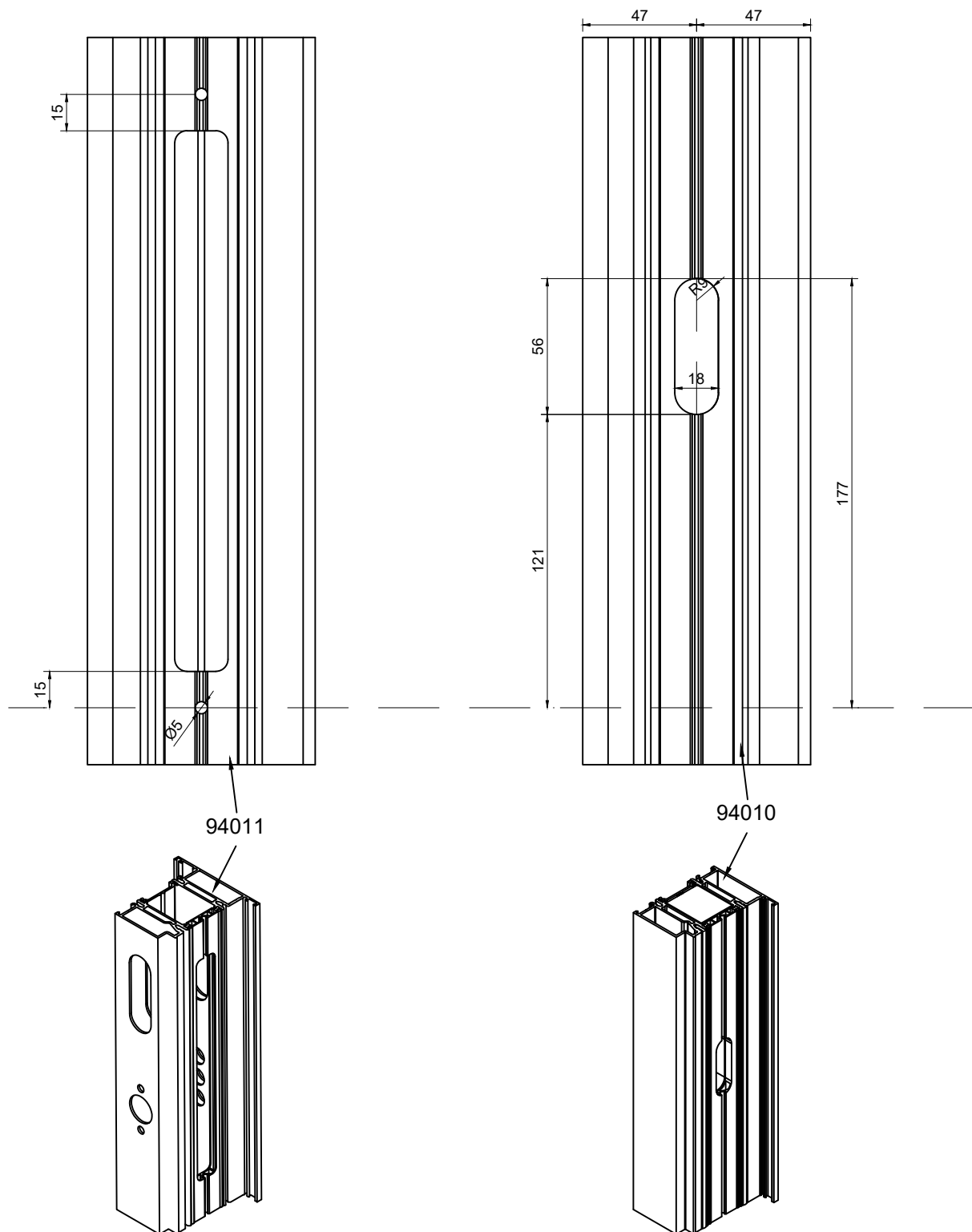
Etupuoli
Frontside



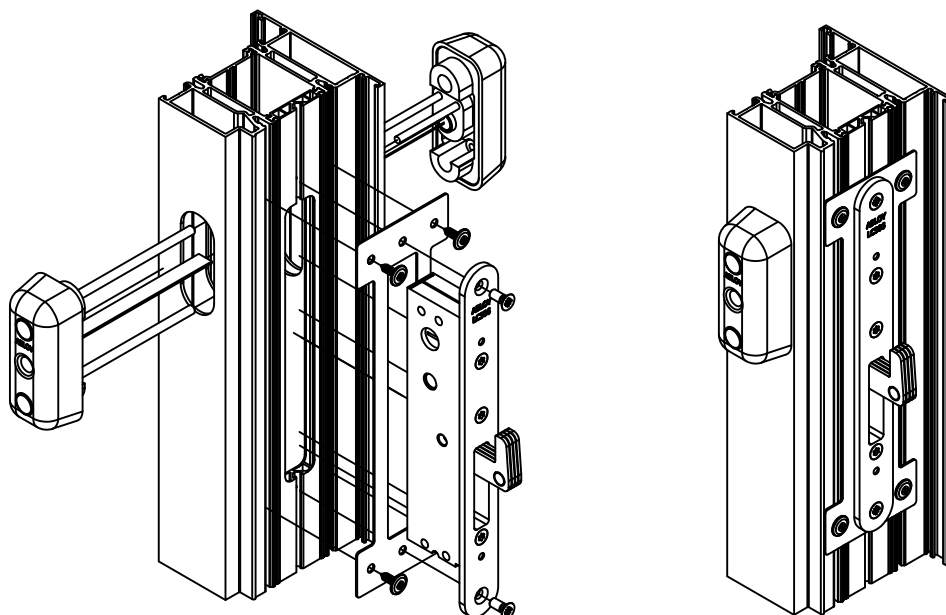
Ulkopuoli
Outside



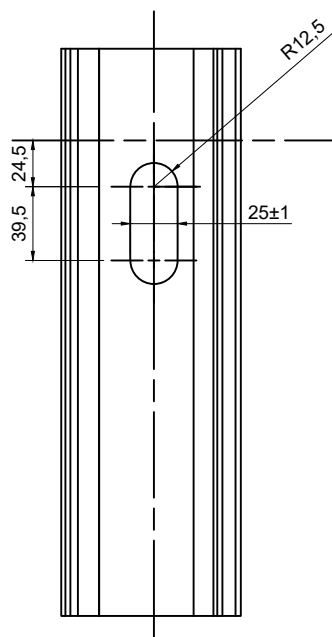
Aluslevyn 94/51 ja lukon vastaraudan 94/46 koneistus
Machining for washer plate 94/51 and striker plate 94/46



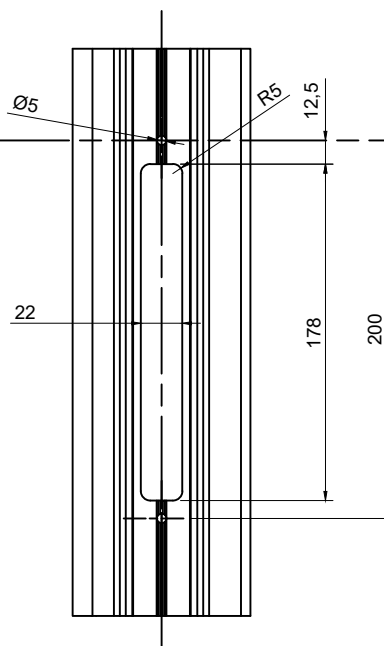
Lukkorungon Abloy LC306 asennus ja koneistus
Assembling and machining of Abloy lock case LC306



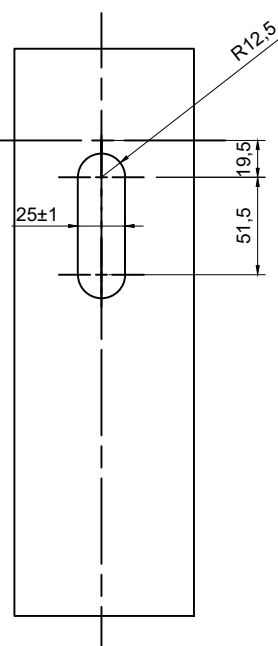
Sisäpuoli
Inside



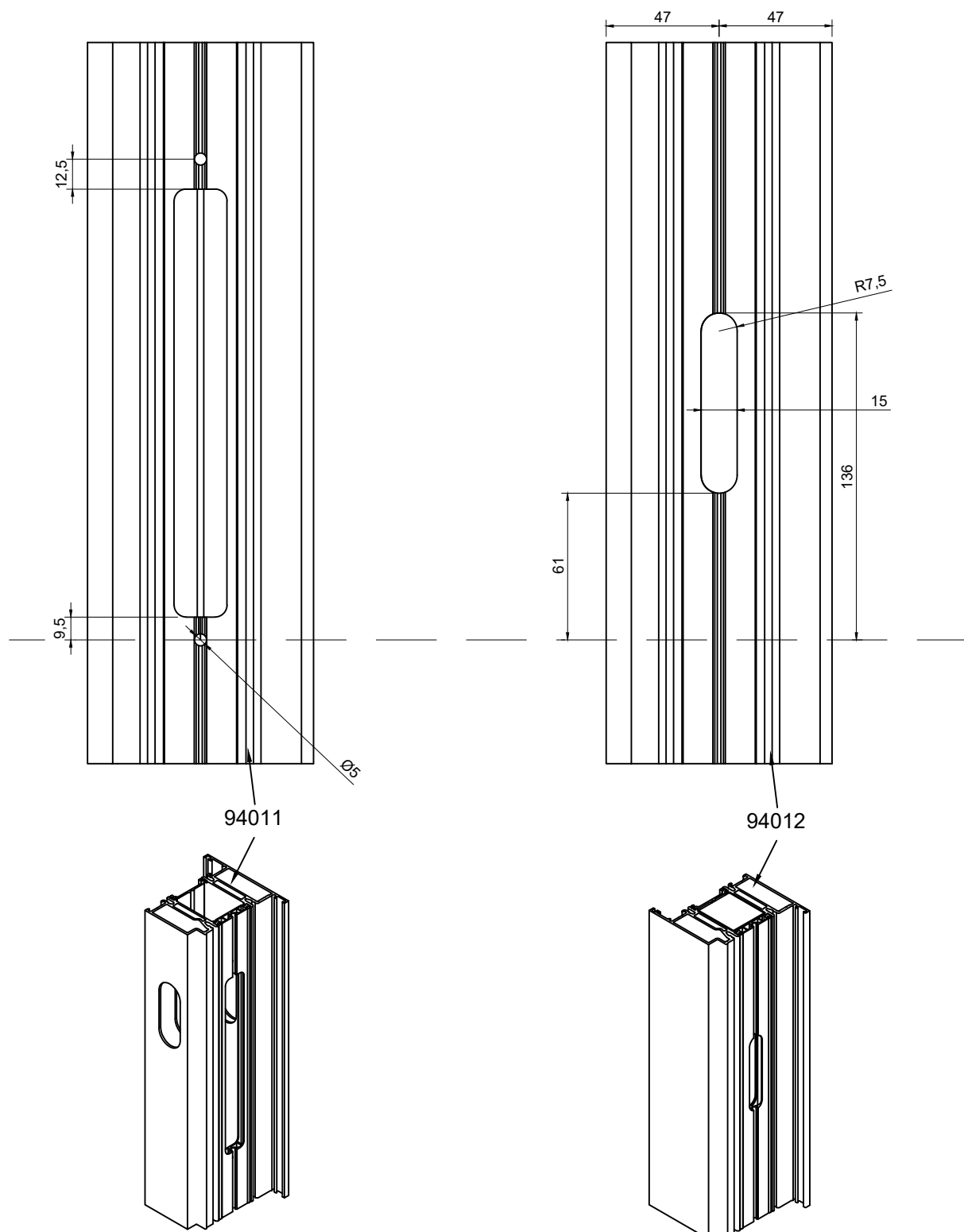
Etupuoli
Frontside



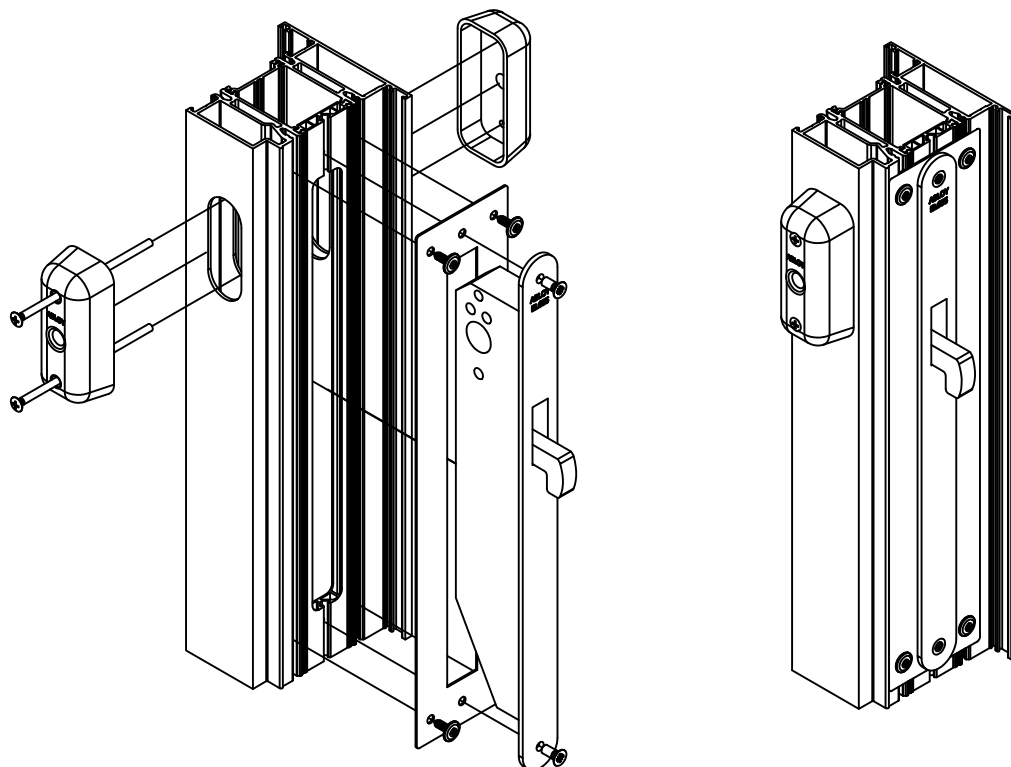
Ulkopuoli
Outside



Aluslevyn 94/50 ja lukon vastaraudan 94/47 koneistus
Machining for washer plate 94/50 and striker plate 94/47



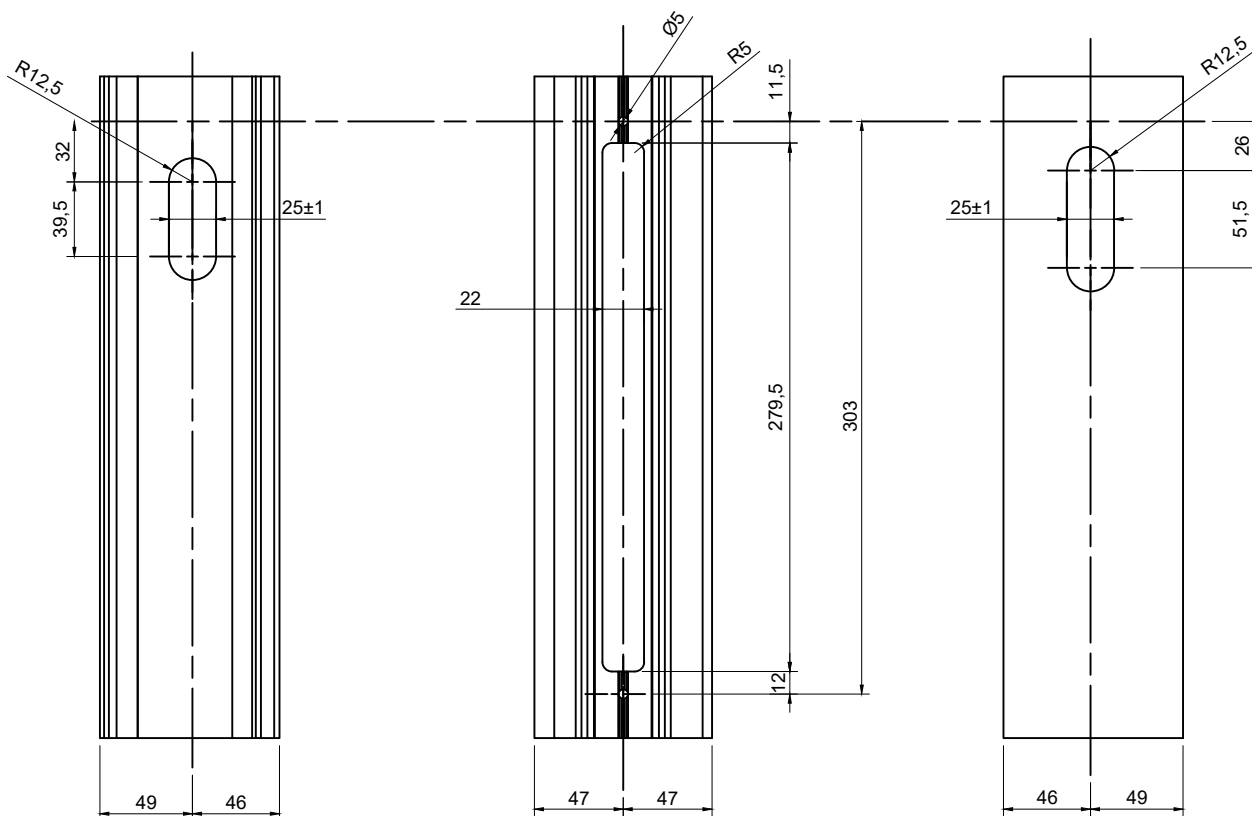
Lukkorungon Abloy EL655 asennus ja koneistus
Assembling and machining of Abloy lock case EL655



Sisäpuoli
Inside

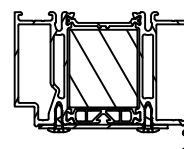
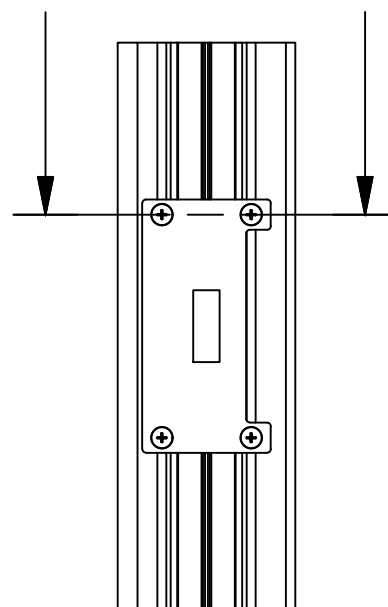
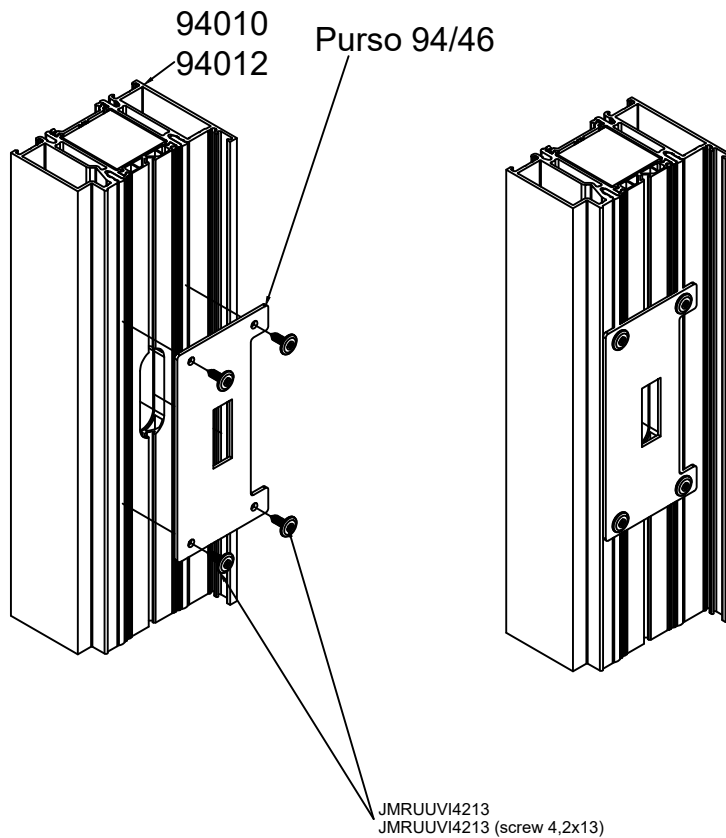
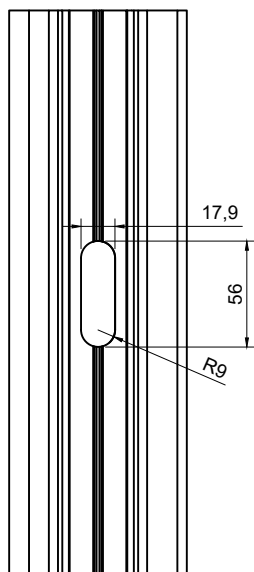
Etupuoli
Frontside

Ulkopuoli
Outside



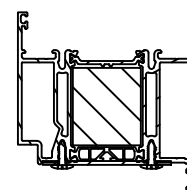
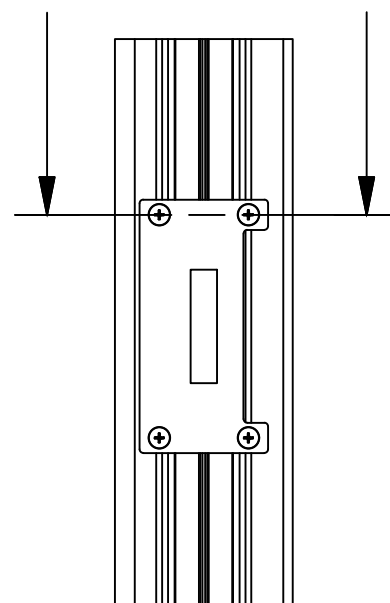
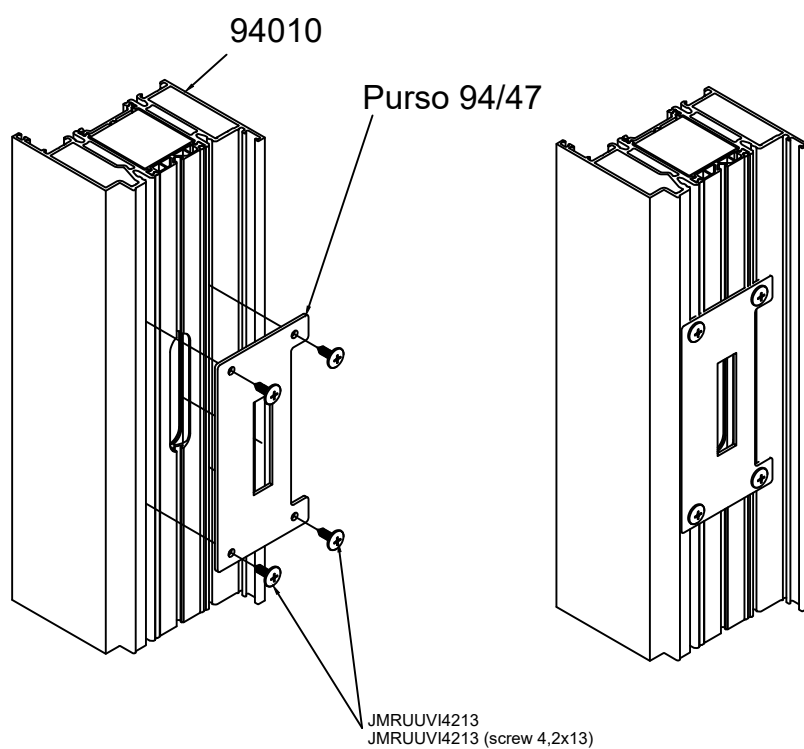
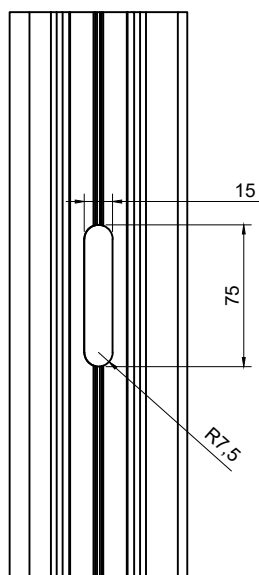
Käyttölukon vastaraudan asennus

Installation of mortise lock's counter plates

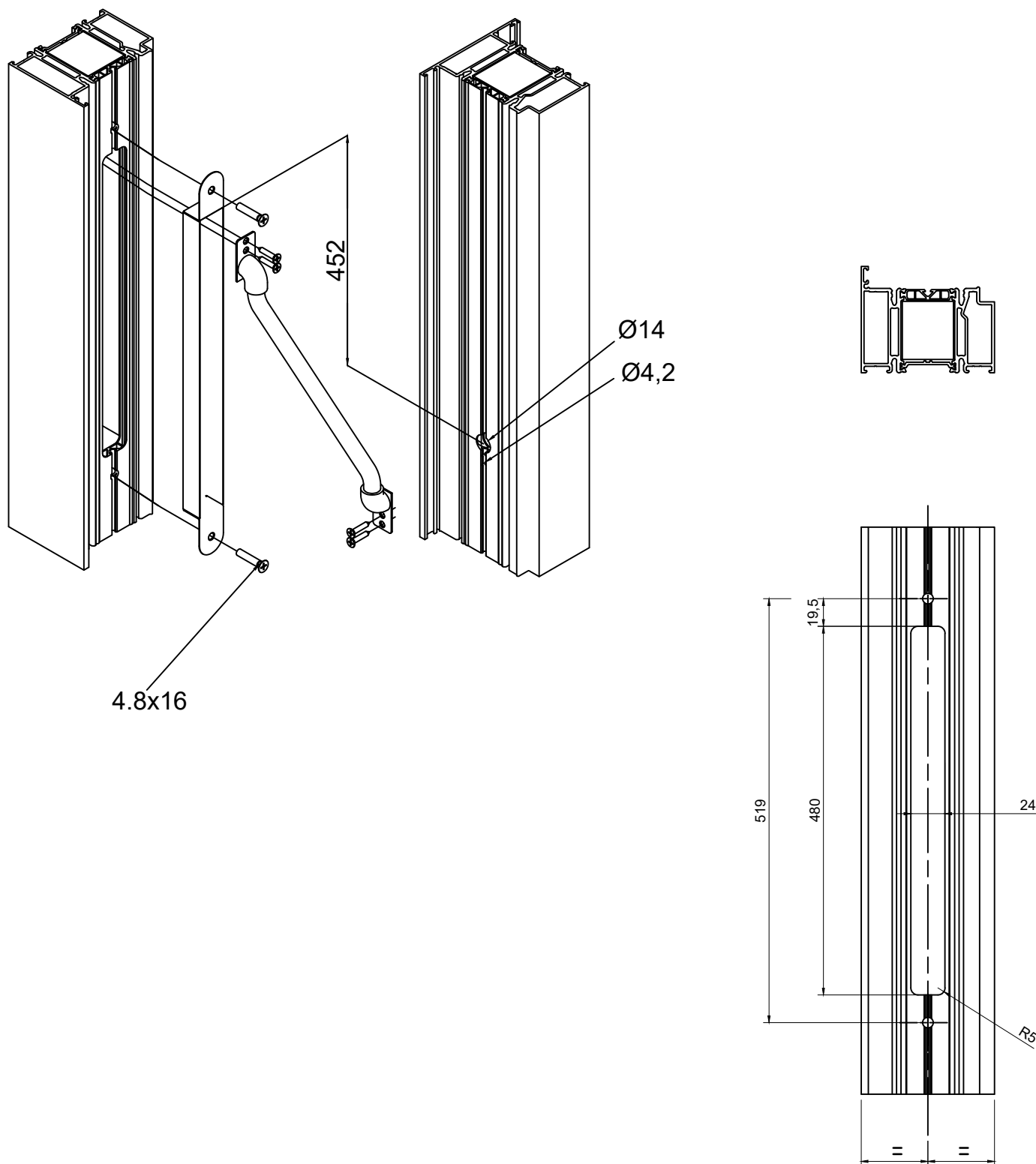


Varmuuslukon vastaraudan asennus

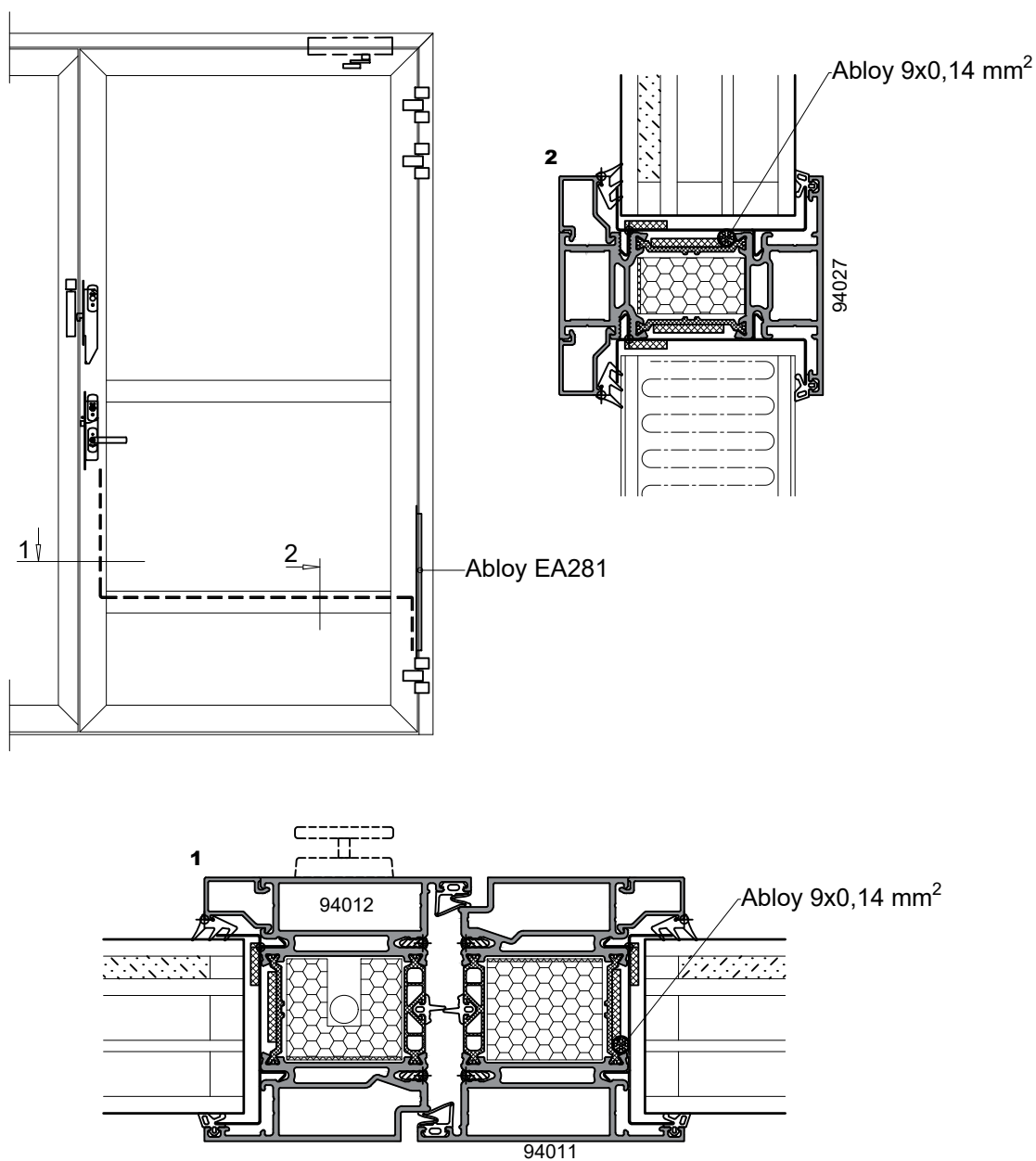
Installation of security lock's counter plates



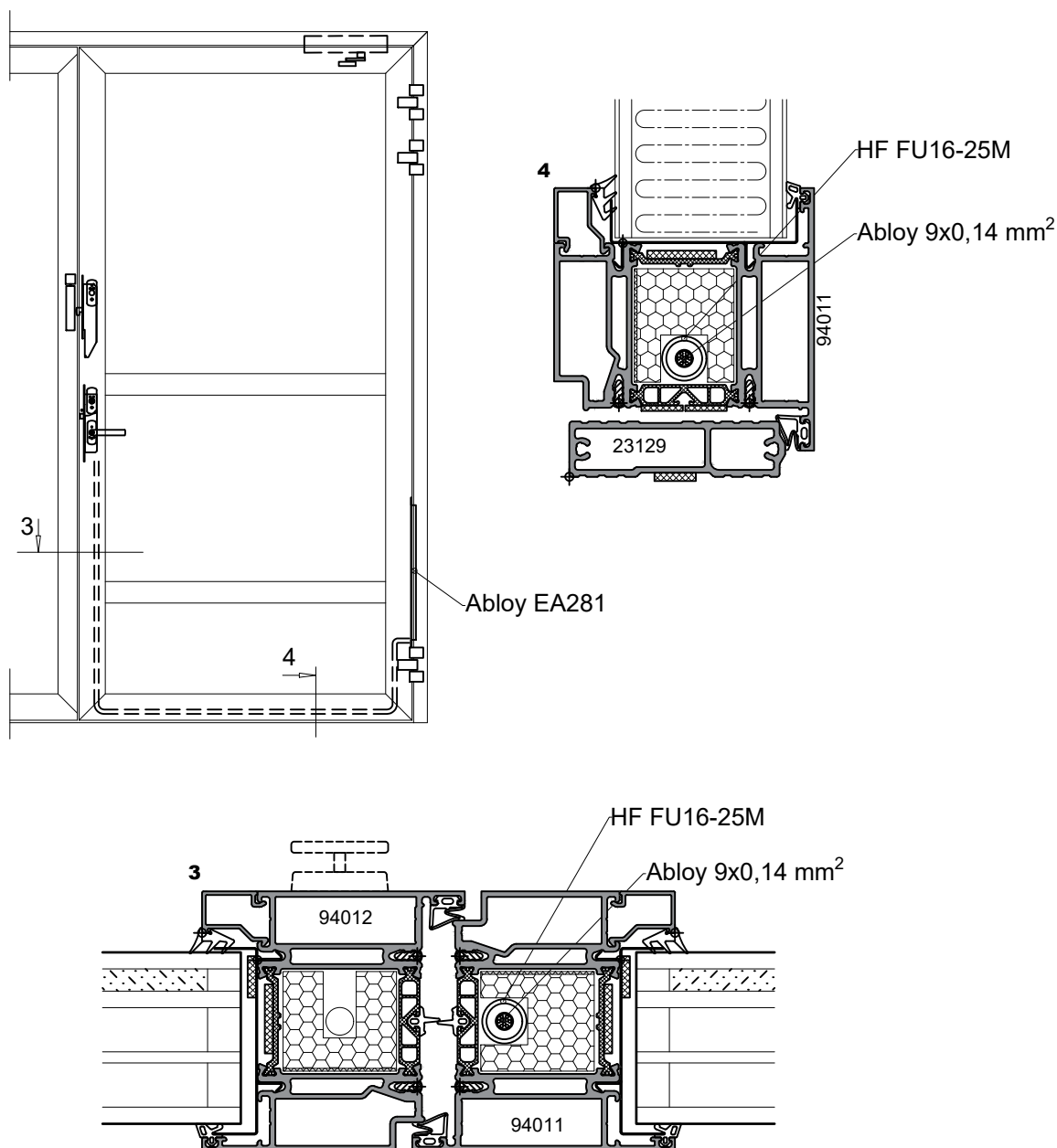
Ylivientisuoja Abloy EA281 koneistus ja asennus
Machining and installation of Abloy EA281 leadcover



Kaapelointi Cabling/wiring

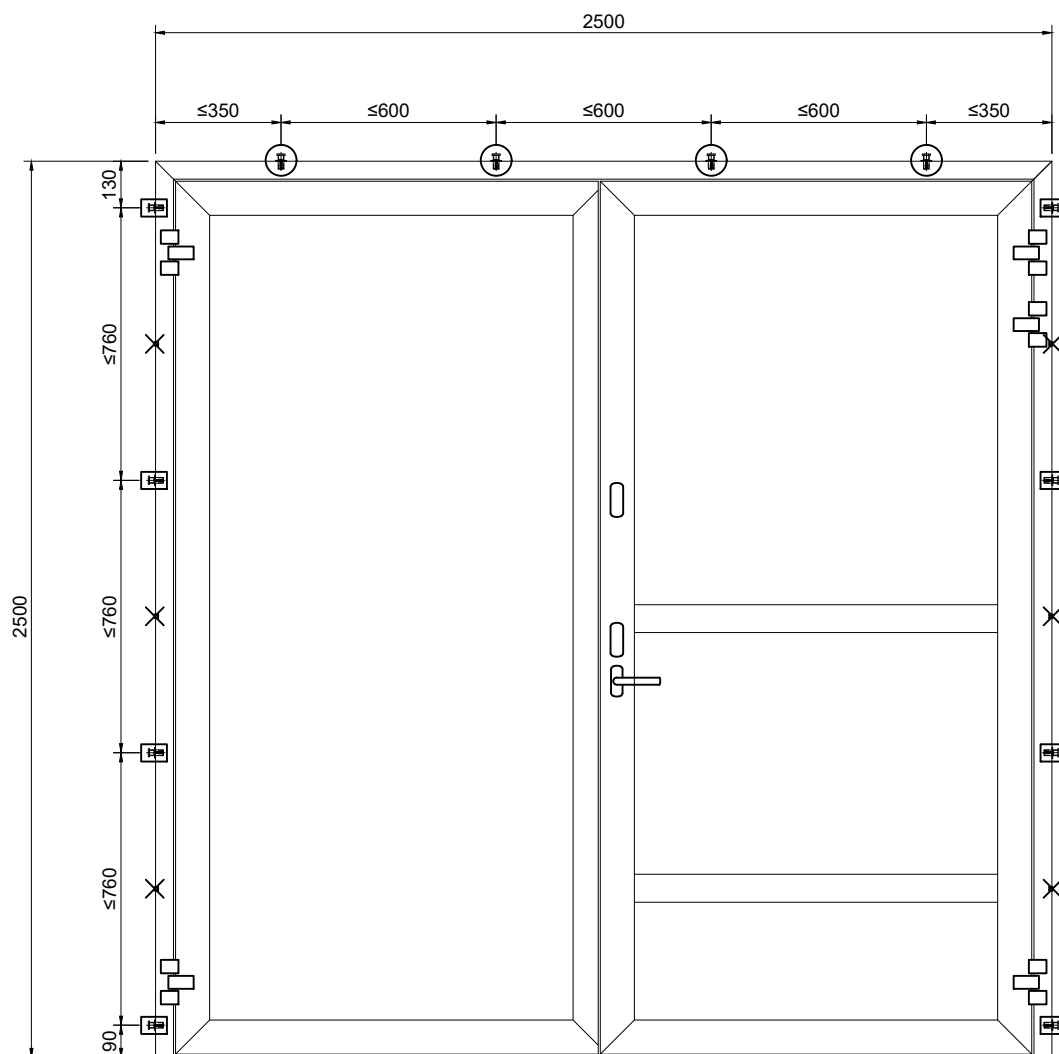


Kaapelointi Cabling/wiring



Karmin kiinnikkeet

Fixings for frame



Adjufix levy 16 94/44 + Adjufix hylsy AH38
Adjufix plate 16 94/44 + Adjufix frame screw AH38



Adjufix levy M16 94/45 + Adjufix hylsy AH38
Adjufix plate M16 94/45 + Adjufix frame screw AH38

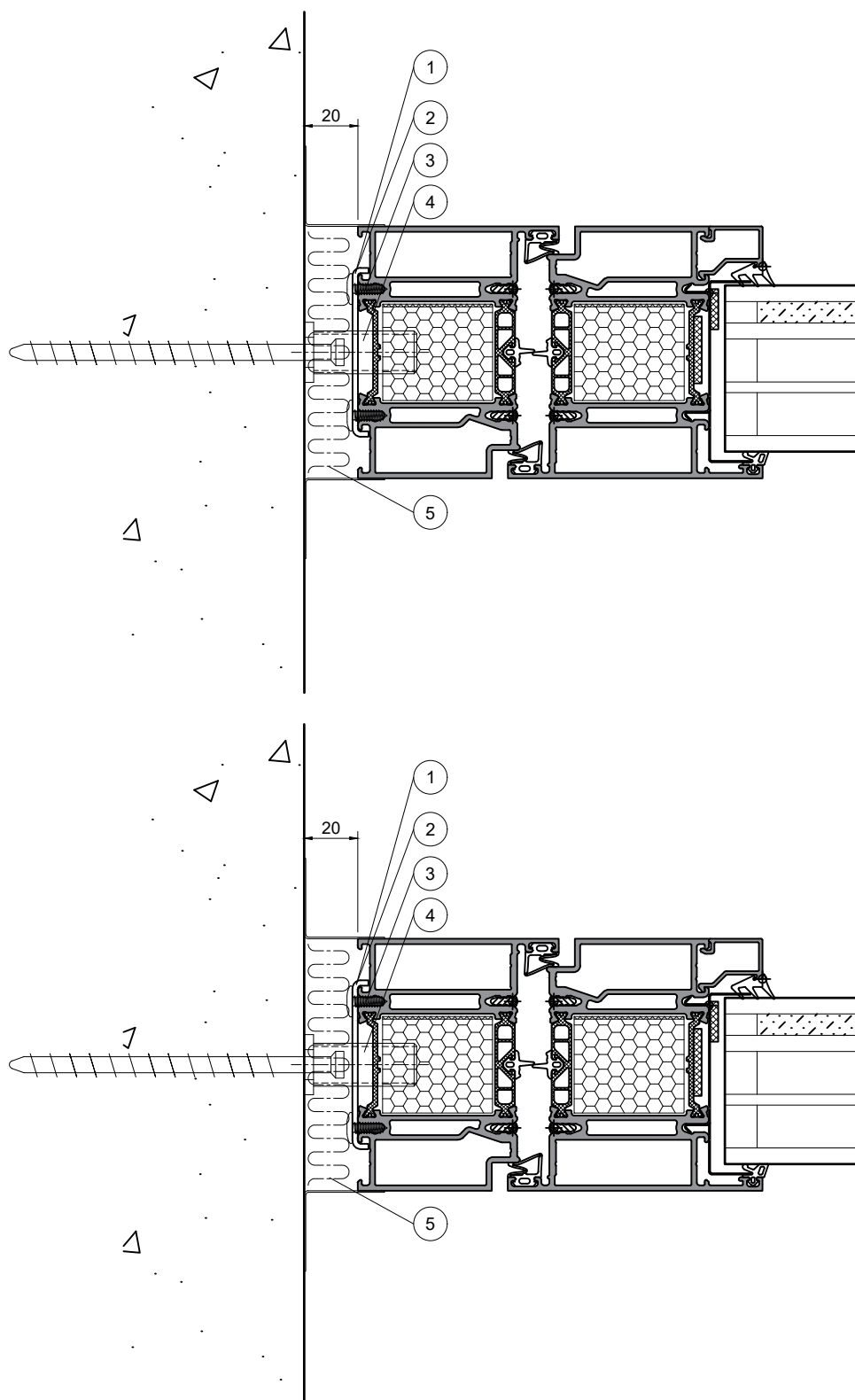


Sidontaliuska 94/10
Fixing strip 94/10

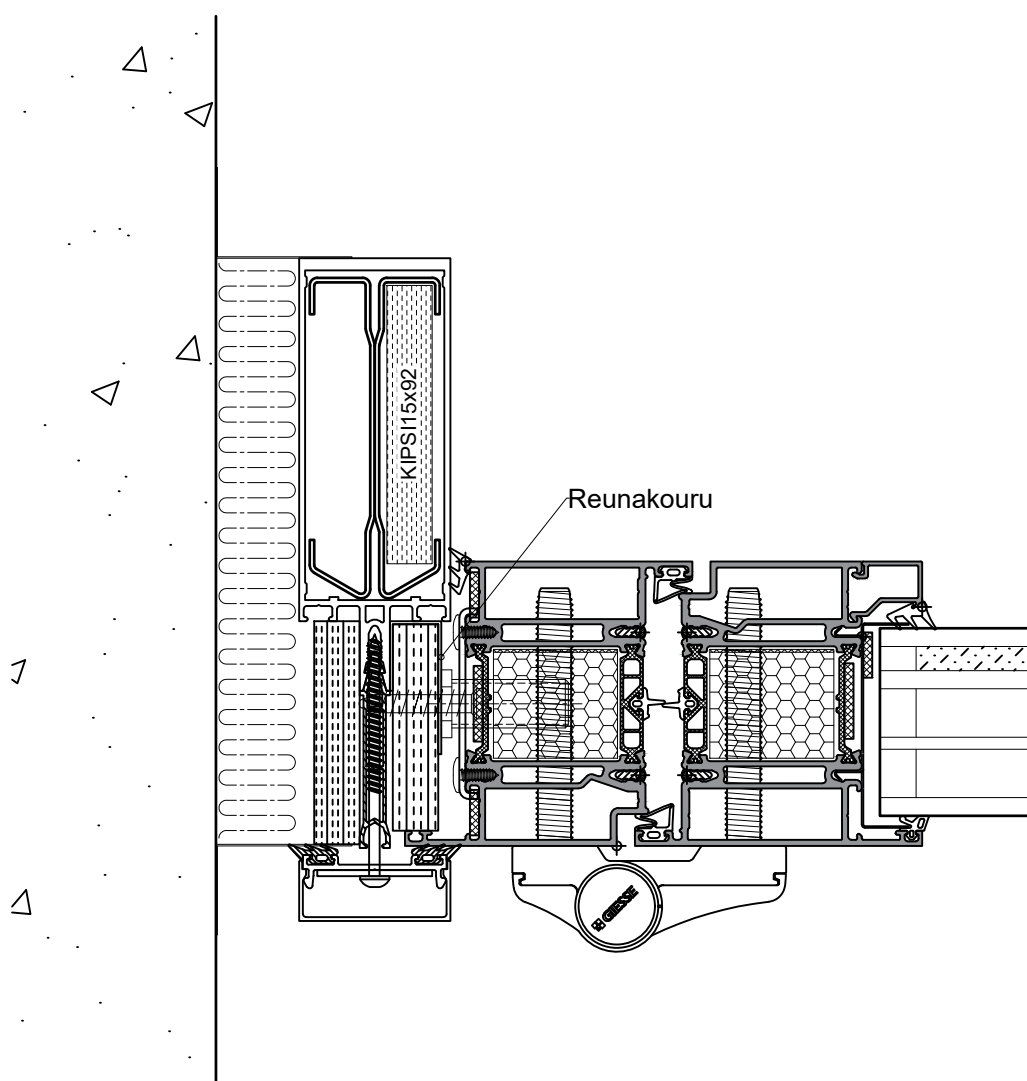
Kiinnitys periaatteita, adjufix

Installation principles, adjufix

- | | |
|---|---|
| ① Verhouskulma 30x30x0.6 teräs
Cladding angle 30x30x0.6 steel | ④ Adjufix säätöholkki M16 x38
Adjufix adjusting sleeve M16 x38 |
| ② Adjufix kiinnityslevy M16 94/44
Adjufix fixing plate M16 94/44 | ⑤ Soudafoam FR HY |
| ③ Ruuvi 4.2x13
Screw 4,2x13 | |



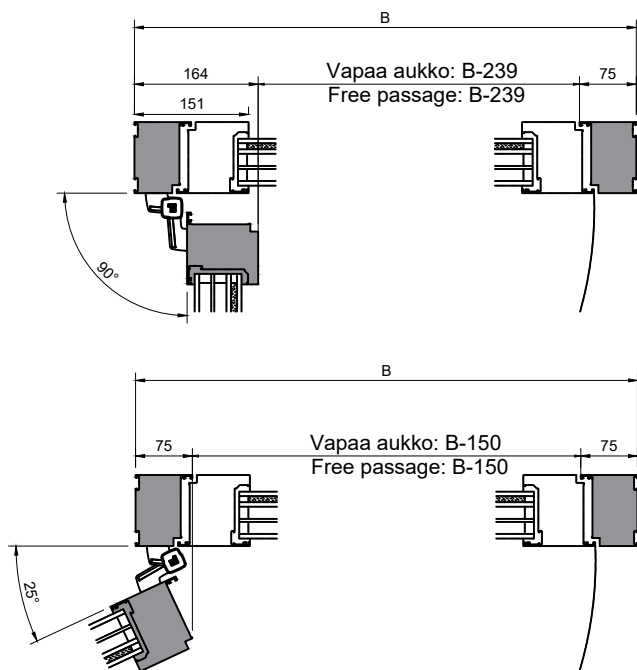
Kiinnitys P50L julkisivujärjestelmässä
Installation to P50L facade system



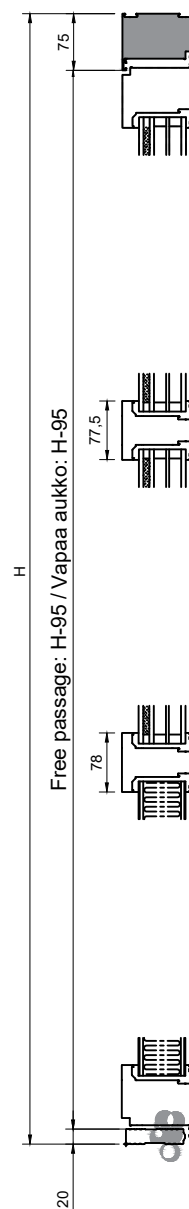
Ovien vapaat kulkuaukot

The free passage opening of the doors

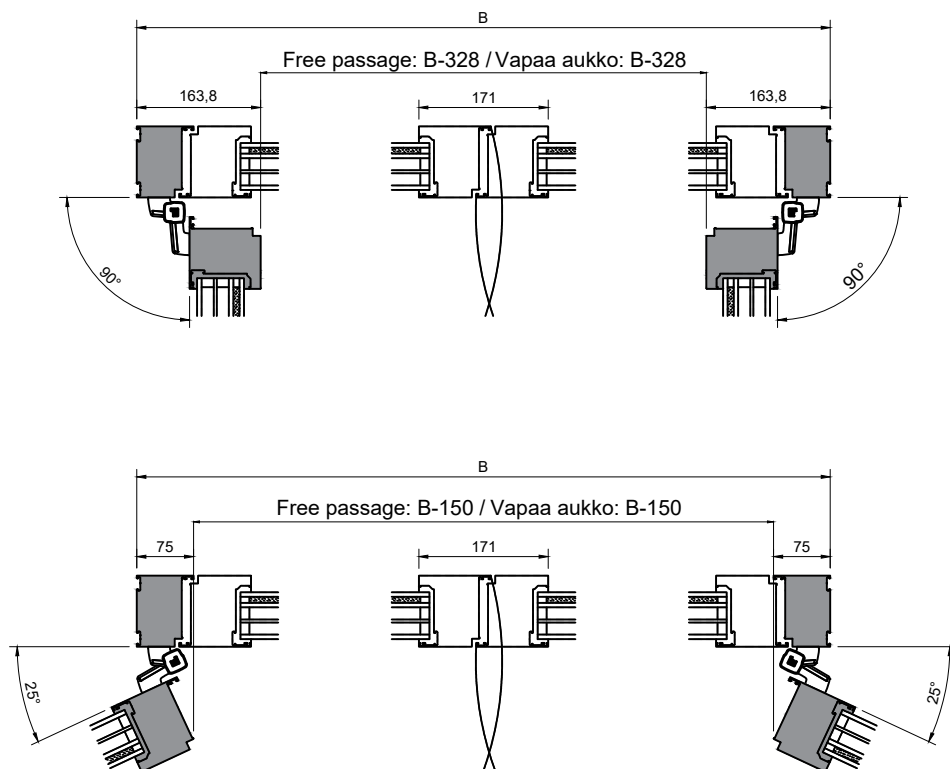
1-lehtinen ovi
1-leaf door



Korkeussuunnassa
In height direction



Pariovi
Double door



Valmistus, myynti ja tekninen neuvonta
Manufacturing, sales and technical information

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