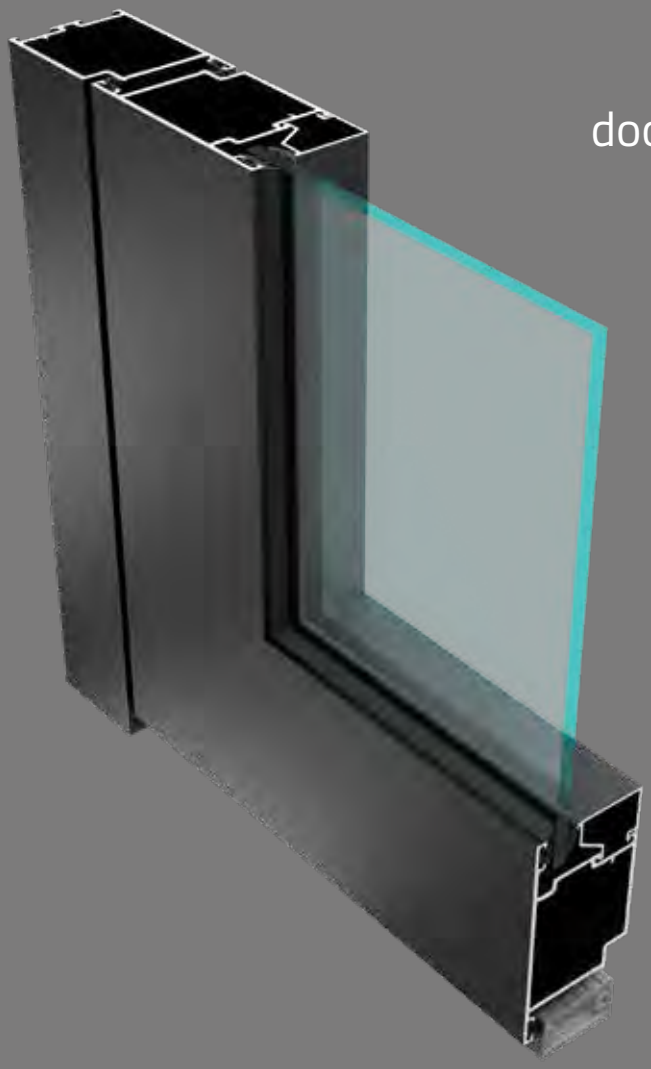
PURSO®

Eristämätön ovi- ja ikkunajärjestelmä

P50

Non-insulated
doors and windows



Eristämätön ovi- ja ikkunajärjestelmä

P50

Uninsulated doors and partitions

Käyttökohteita

- Sisäovet (ovilehden paino max 100 kg)
- Sormisuojaovet
- Käsi- ja konekäyttöiset liukuovet
- Tuulikaapit
- Sisälasiseinät
- Avattavat ikkunat
- Kaiteet

Ominaisuuksia

- Lämpöeristämätön alumiininen ovi-ja ikkunajärjestelmä
- Runkosyvyydet 50 mm, 80 ja 100 mm
- Runkojen leveydet 20...150 mm
- Käytettävän lasin tai umpiosan vahvuus 3...33 mm.
- Järjestelmän profiilit ovat suulakepuristettua alumiinia, joka on lujaa ja jäykkää, vaikka se painaa vain kolmanneksen teräksen painosta.
- Profiilien pintakäsittelynä yleensä on anodisointi tai jauhemaalaus.
- Tarvittaessa voidaan tehdä myös uusia profiilimuotoja nopeasti ja edullisin kustannuksin.
- Täysin kierrätettävissä
- Vähäinen huollon tarve eliniän aikana
- Toimii kaikissa sääolosuhteissa
- CE-merkittävissä sisäänkäyntioveksi SFS-EN 14351-1 +A1 mukaan

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Applications

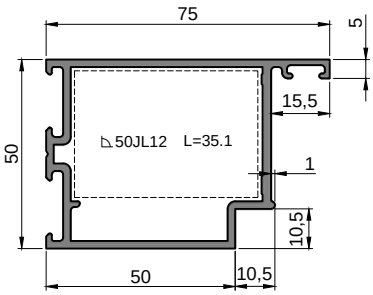
- Internal doors
- Partitions
- Sliding doors
- Air locks
- Opening windows
- Trailing

Features

- Uninsulated aluminium door and window system
- Thickness of single glass, IGU or panel 3...33 mm
- Frame depths 50, 80 and 100 mm
- Doors with surface mounted or butt hinges
- Maximum weight of one door leaf 100 kg
- Powder coated or anodized surface treatment.
- New profile shapes can be produced quickly when necessary with low costs
- Completely recyclable
- Minimal care and maintanance required
- High resistance to any weather conditions
- Possible to attach CE mark as external pedestrian doorset (EN 14351-1 +A1)

P50 OVI-, TUULIKAAPPI- JA IKKUNAJÄRJESTELMÄ
P50 SYSTEM OF DOORS, AIR LOCKS AND WINDOWS

OVIPROFIILIT
DOOR PROFILES



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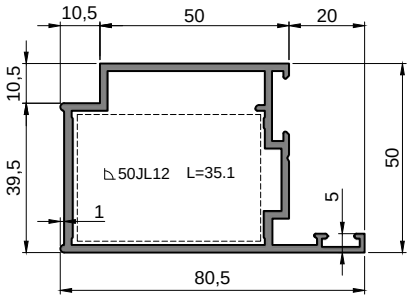

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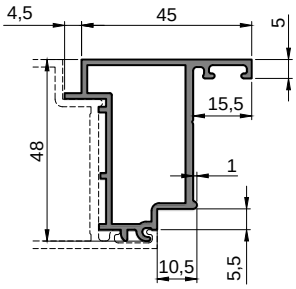

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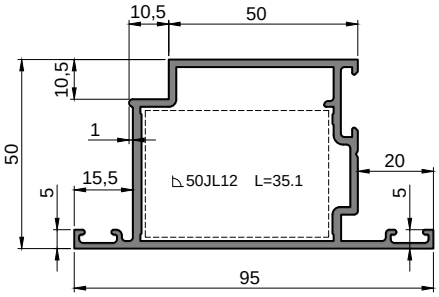

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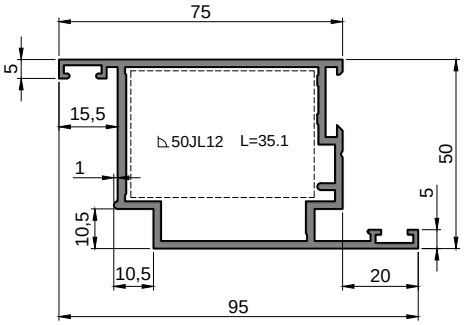

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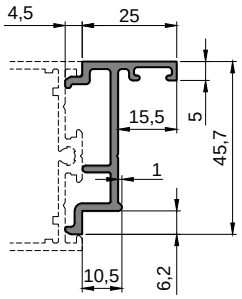

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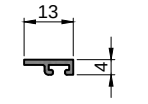

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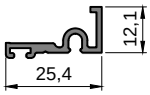

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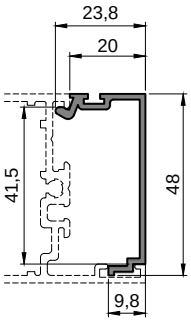

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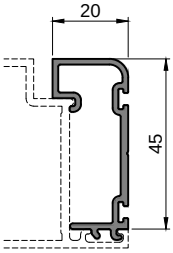

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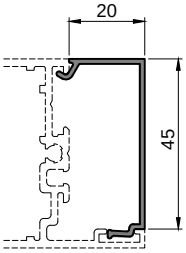

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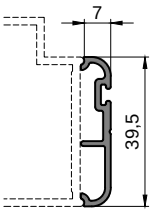

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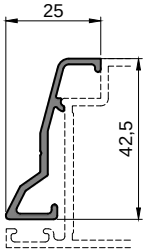

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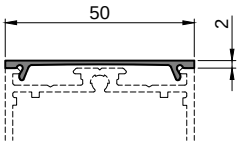

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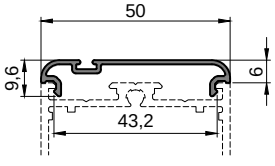

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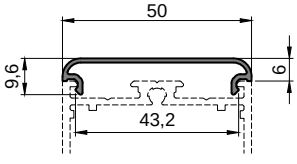

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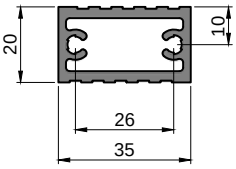

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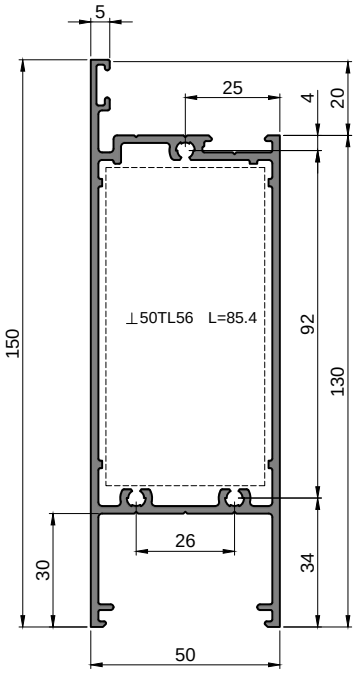
OVIPROFIILIT
DOOR PROFILES



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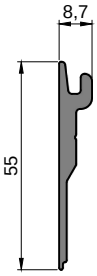

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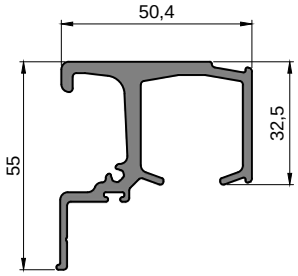

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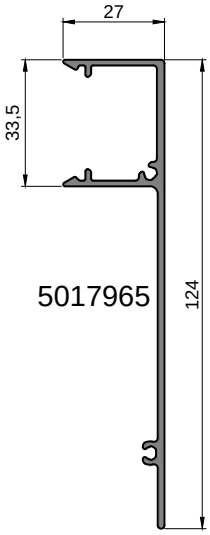

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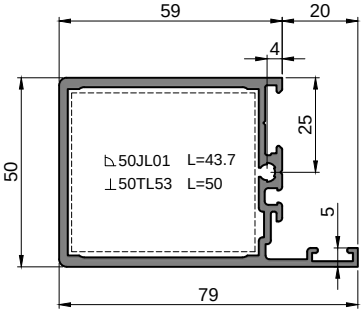

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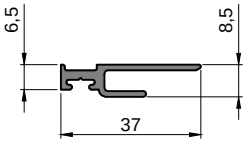

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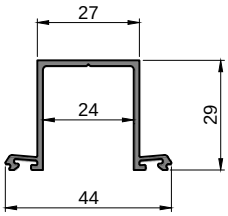

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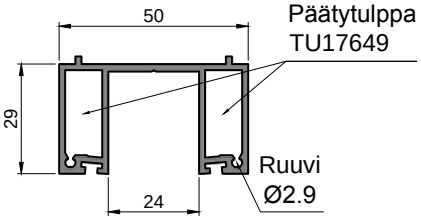

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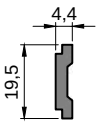
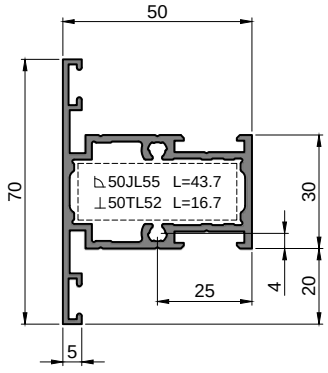
IKKUNAPROFIILIT
WINDOW PROFILES



502651

liukukisko sivu / alasaranoituun ikkunaan
sliding rail for side / bottom hung window



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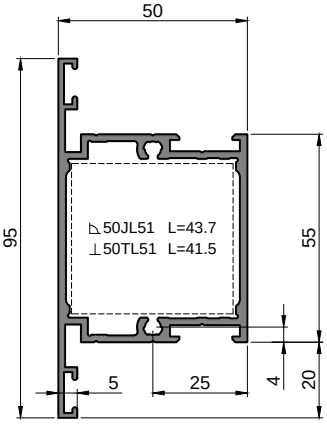

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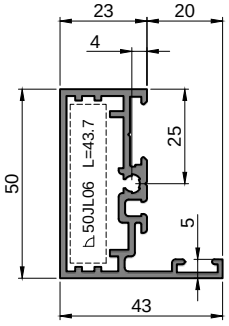

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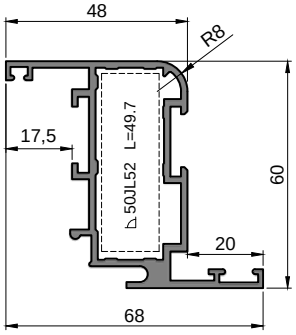

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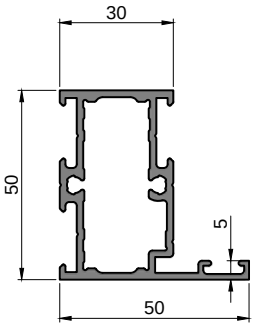
puiteprofiili sivu / alasaranoitu ikkuna
sash profile side / bottom hung window

RUNKOPROFIILIT
FRAME PROFILES



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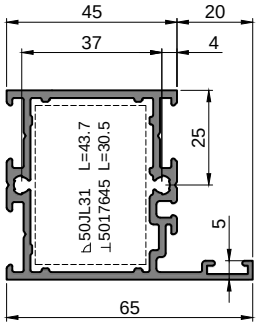

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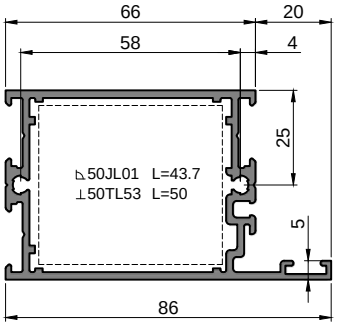

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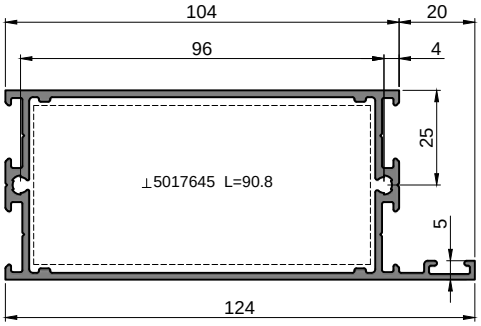

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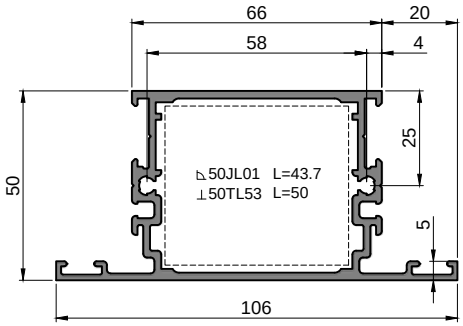

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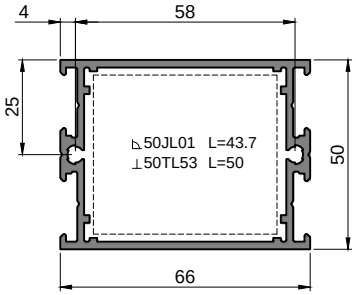

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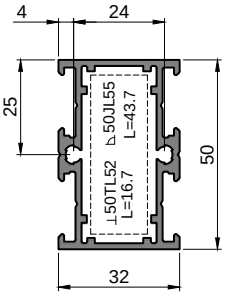

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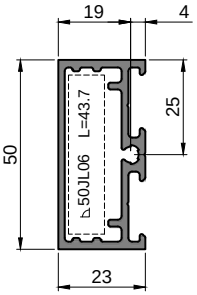

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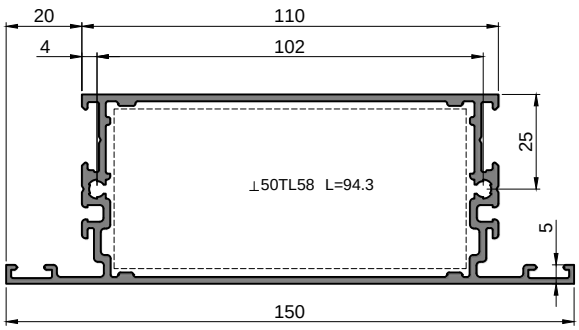

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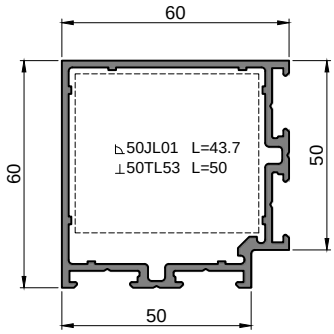

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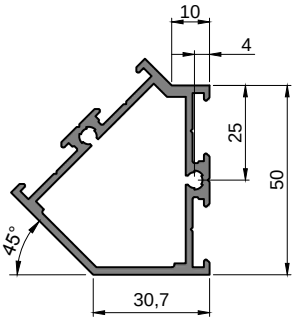

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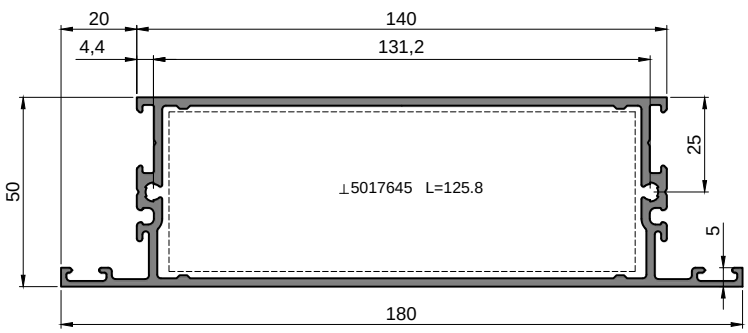

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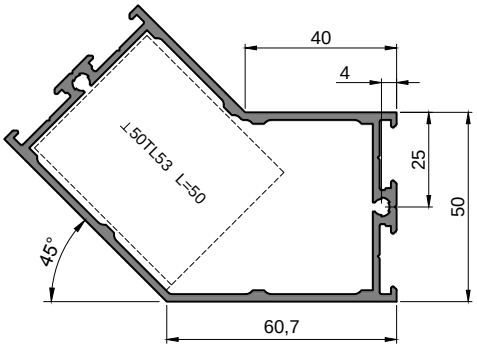

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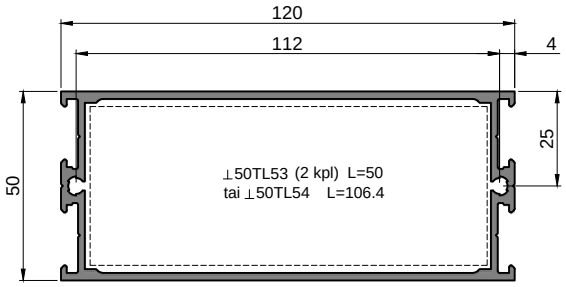
RUNKOPROFIILIT
FRAME PROFILES



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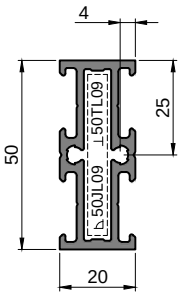

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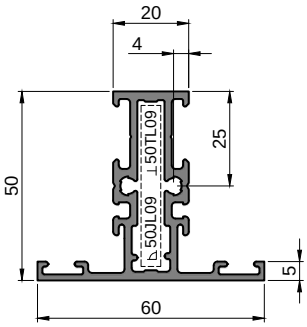

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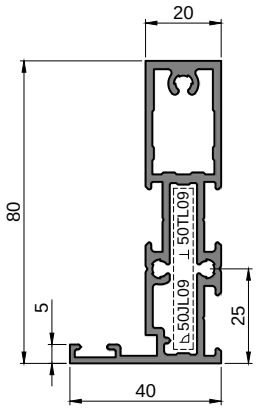

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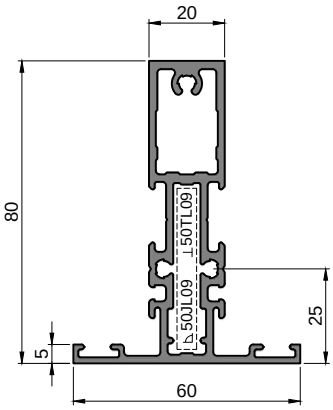

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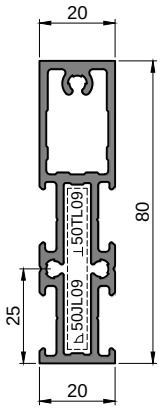

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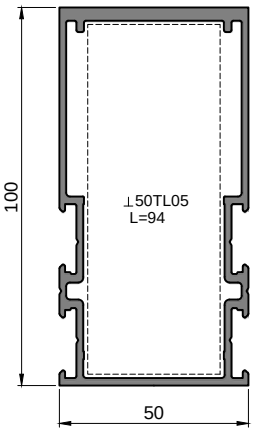

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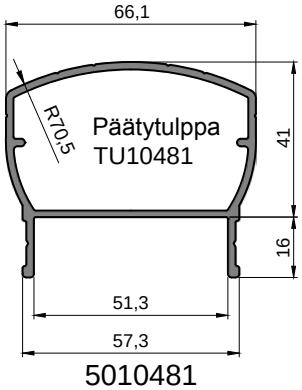
ERIKOISPROFIILIT
SPECIAL PROFILES



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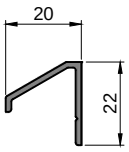

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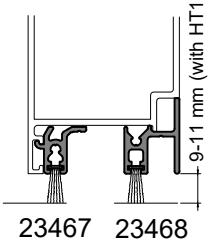

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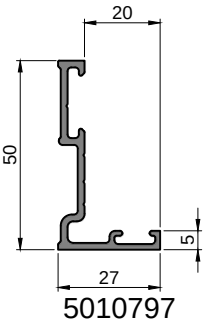

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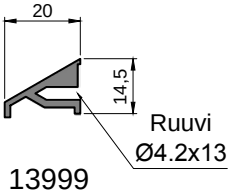

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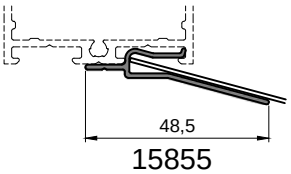
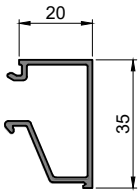


15855

LASITUSLISTAT
GLAZING BEADS



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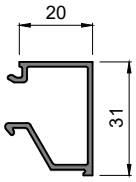

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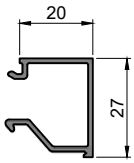

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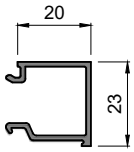

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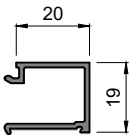

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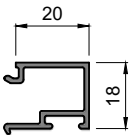

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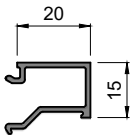

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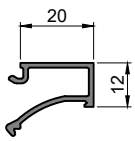

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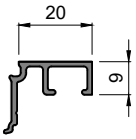

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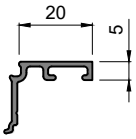

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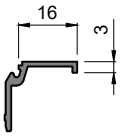

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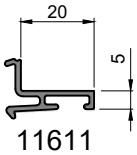

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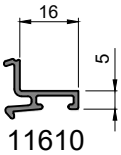

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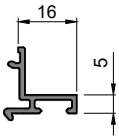

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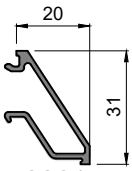
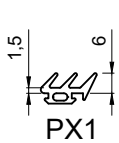


8261

TIIVISTEET
SEALINGS



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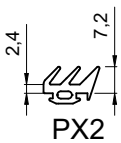
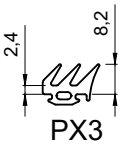


PX2



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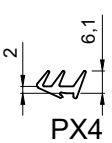

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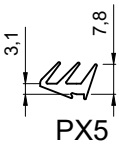
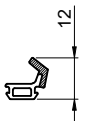


PX5

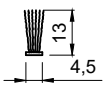
PT1

DX50



DX731

IT511



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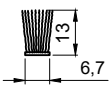

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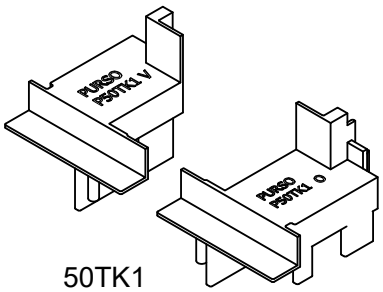

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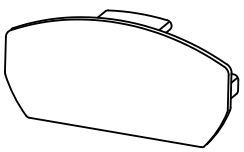
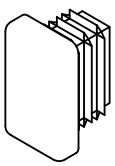


TU10481



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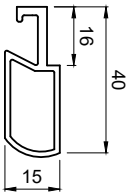
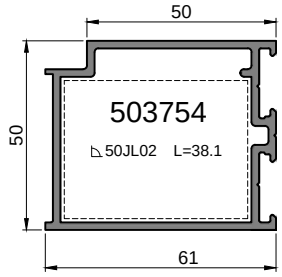
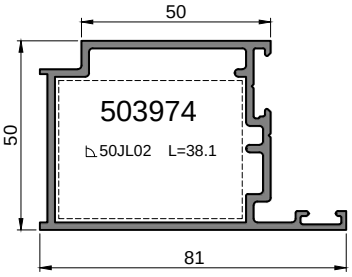
LOT3

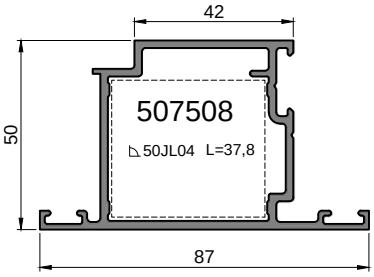


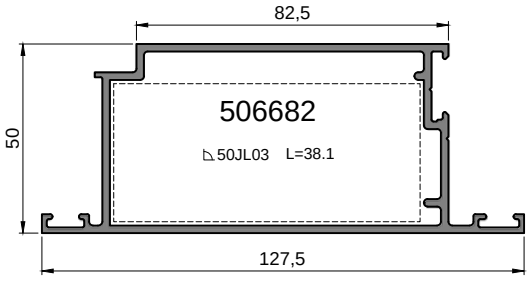
SOT1

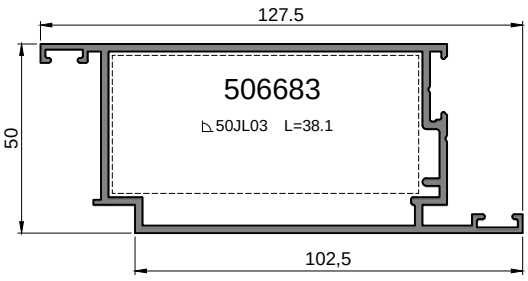
MUUT PROFIILIT
OTHER PROFILES

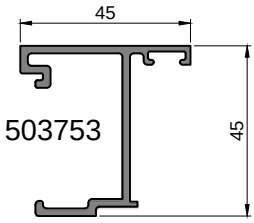


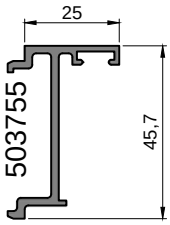


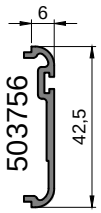


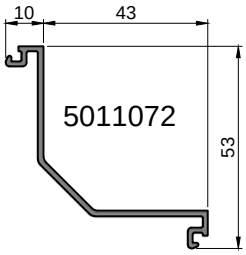


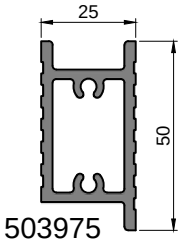


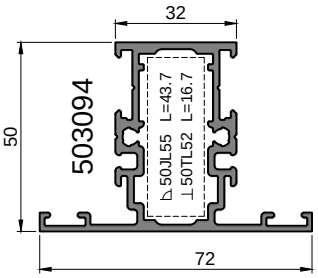


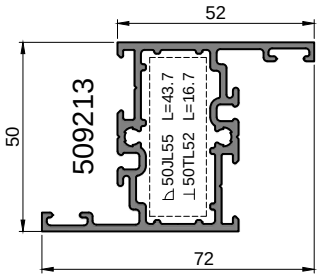


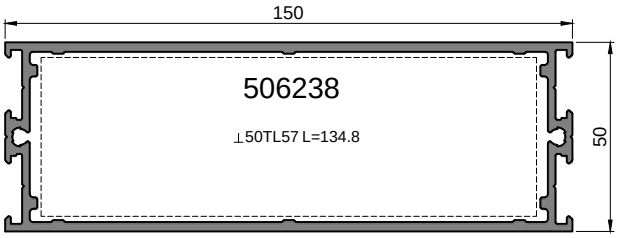


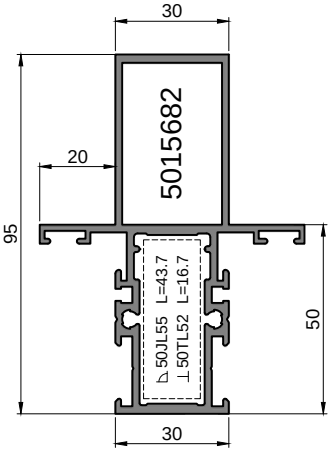


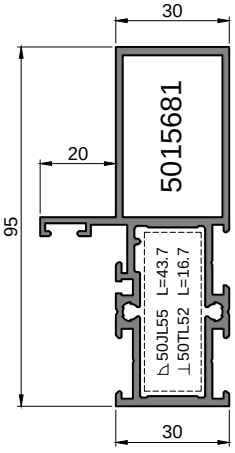


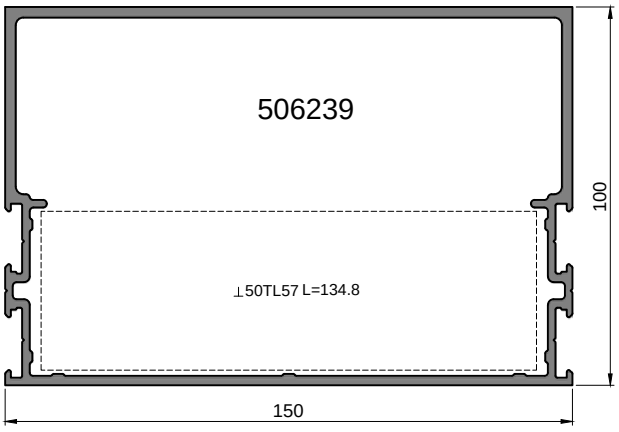






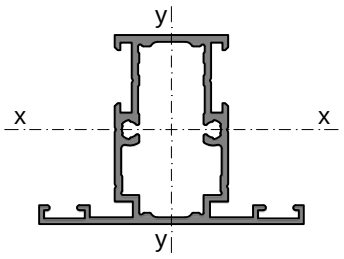




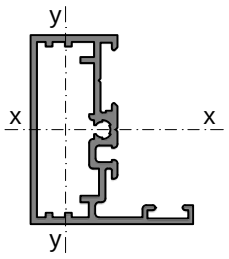


P50-SARJAN POIKKILEIKKAUSARVOT
CROSS-SECTION VALUES OF P50-SERIES

Profiili Profile	I_x	W_x	I_y	W_y
	cm^4	cm^3	cm^4	cm^3
503034	24,3	8,5	51,8	9,8
503235	32,2	12,9	137,1	22,9
503969	96,9	18,3	27,5	11,0
503971	20,1	8,0	31,9	9,7
503972	10,6	4,2	4,5	2,8
506238	46,3	18,5	269,4	35,9
506239	228,0	44,3	444,2	59,2
506644	32,5	11,7	155,0	20,7
507506	12,8	4,2	5,8	1,9
507859	47,3	10,4	6,8	2,3
509461	8,7	3,5	1,2	1,2
509913	33,9	8,3	2,3	2,3
5010481	13,7	4,4	25,5	7,7
5010888	44,3	16,2	288,6	32,1
5015682	56,4	11,2	14,5	4,1
5017647	15,0	5,0	10,6	3,0
5017648	21,3	7,4	33,9	7,1



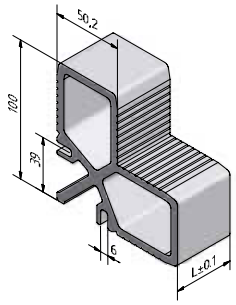
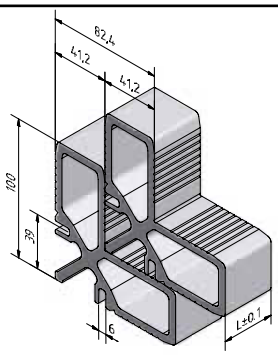
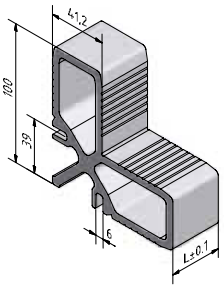
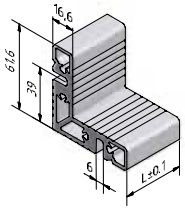
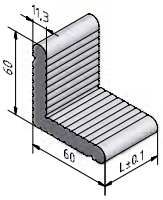
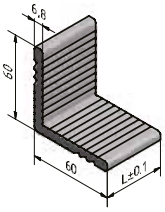
Profiili Profile	I_x	W_x	I_y	W_y
	cm^4	cm^3	cm^4	cm^3
503092	6,7	2,4	8,4	2,4
503127	22,4	8,3	31,9	6,9
504031	21,9	8,1	39,9	8,2
507507	41,2	9,7	4,4	1,6
509005	28,7	10,8	108,8	16,0
5013970	16,8	6,1	16,4	4,2
5015681	56,3	11,1	10,7	3,3

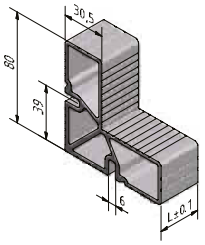


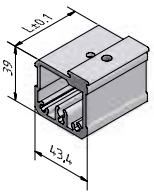
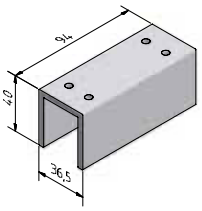
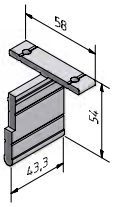
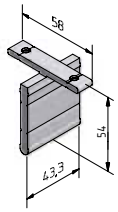
LIITOSKAPPALEET
JOINING PIECES

Profiili	Jiiriliitoskappale	T-liitoskappale	Huom
503034	50JL01	50TL53	
503092	50JL06		
503127	50JL01	50TL53	
503131		50TL53	
503235		50TL53/ 50TL54	2 kpl 50TL53 tai 1 kpl 50TL54
503754	50JL02		
503969		50TL05	
503970	50JL01	50TL53	
503971	50JL01	50TL53	
503972	50JL55	50TL52	
503974	50JL02		
504031	50JL01	50TL53	
506030		50TL56	
506238		50TL57	
506239		50TL57	
506644		50TL58	
506682	50JL03		
506683	50JL03		
507506	50JL09	50TL09/ 50TL12	50TL12 käytettäessä lasilistoja 508261, 5011146, 5011610 tai 5011611
507507	50JL09	50TL09/ 50TL12	50TL12 käytettäessä lasilistoja 508261, 5011146, 5011610 tai 5011611
507508	50JL04		
507859	50JL09	50TL09/ 50TL12	50TL12 käytettäessä lasilistoja 508261, 5011146, 5011610 tai 5011611
509005		5017645 L=90.8mm	T-liitoskappale salkotavarana
509213	50JL55	50TL52	
509461	50JL09	50TL09/ 50TL12	50TL12 käytettäessä lasilistoja 508261, 5011146, 5011610 tai 5011611
509913	50JL09	50TL09/ 50TL12	50TL12 käytettäessä lasilistoja 508261, 5011146, 5011610 tai 5011611
5010213	50JL06		
5010888		5017645 L=125.8mm	T-liitoskappale salkotavarana
5013970	50JL31	5017645 L=30.5mm	T-liitoskappale salkotavarana
5015261	50JL12		
5015262	50JL12		
5015681	50JL55	50TL52	
5015682	50JL55	50TL52	
5015839	50JL52		
5017647	50JL55	50TL52	
5017648	50JL51	50TL51	
5017652	50JL12		
5017653	50JL12		

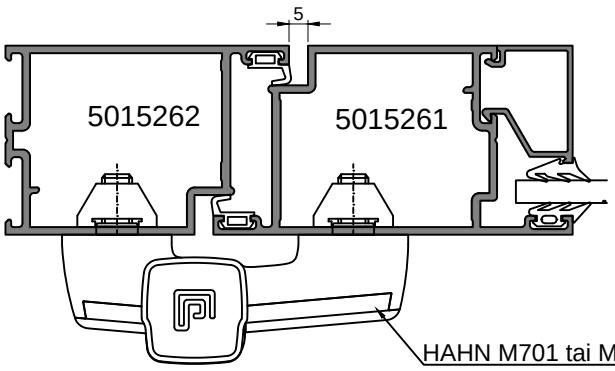
LIITOSKAPPALEET
JOINING PIECES

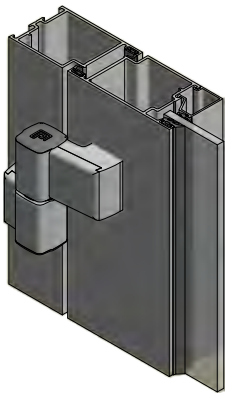
Liitos-kappale	Profiili	L (mm)	
Jiiriliitoskappaleet			
50JL01 50JL02 50JL12	509538 509538 509538	43,7 38,1 35,1	
50JL03	509537	38,1	
50JL04 50JL51	509537 509537	37,8 43,7	
50JL52 50JL55	5015996 5015996	49,7 43,7	
50JL06 50JL07	505127 505127	43,7 50,5	
50JL09	5016300	43,7	

Liitos-kappale	Profiili	L (mm)	
50JL31	5017907	43,7	

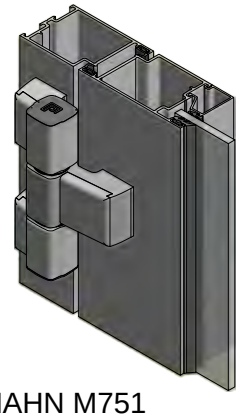
Liitos-kappale	Profiili	L (mm)	
T-liitoskappaleet			
50TL51 50TL52 50TL53 50TL54 50TL56 50TL57 50TL58	5017645 5017645 5017645 5017645 5017645 5017645 5017645	41,5 16,7 50,0 106,4 85,4 134,8 94,3	
50TL05	500193	94,0	
50TL09	507514		
50TL12	507514		

SARANOINTI
HINGES

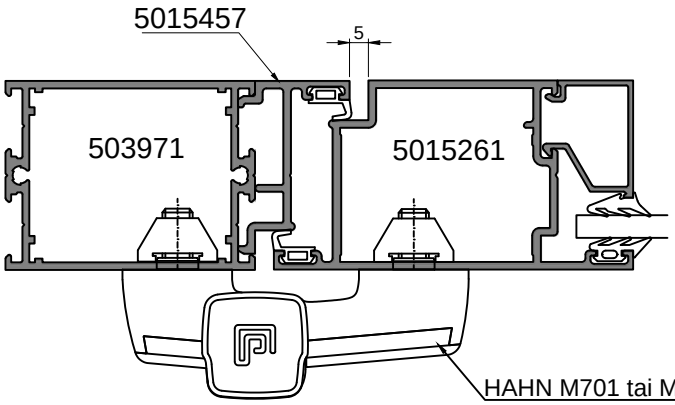


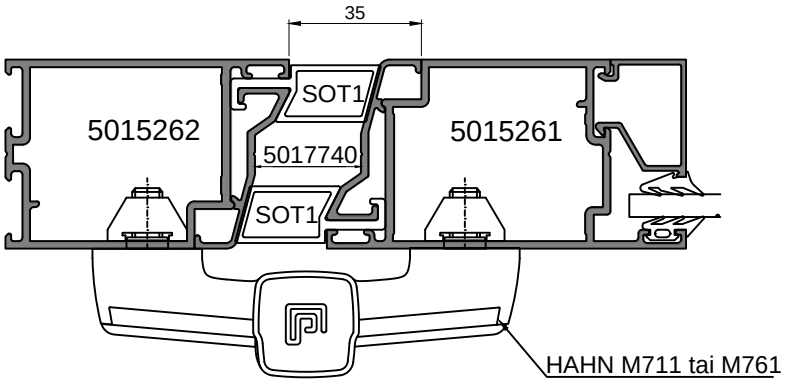


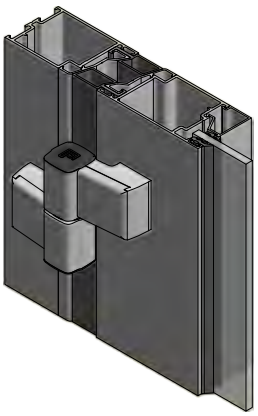
HAHN M701



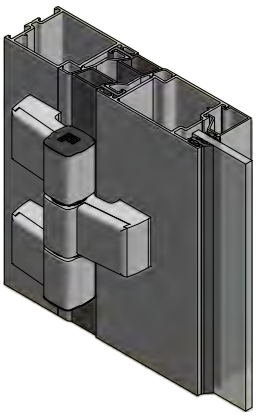
HAHN M751







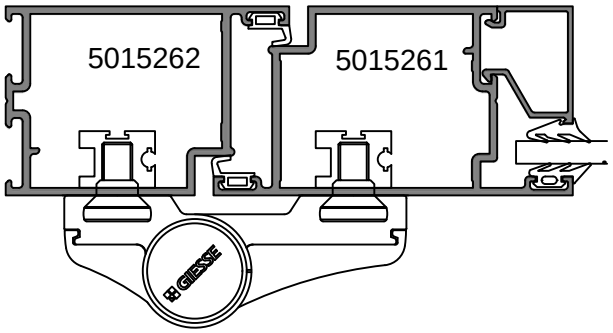
HAHN M711

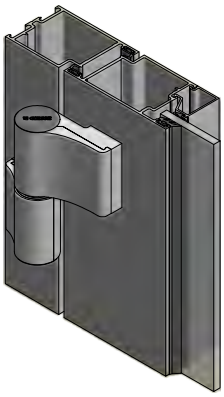


HAHN M761

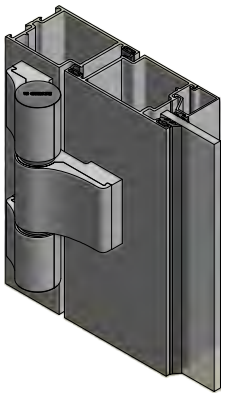
Ovilehden maksimipaino 100kg
Maximum weight of the door leaf 100kg

SARANOINTI
HINGES

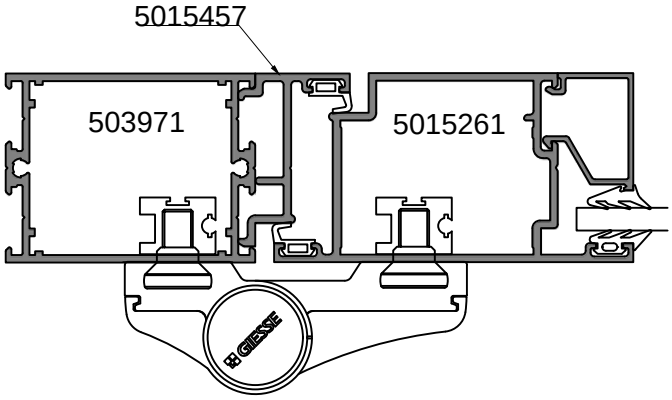


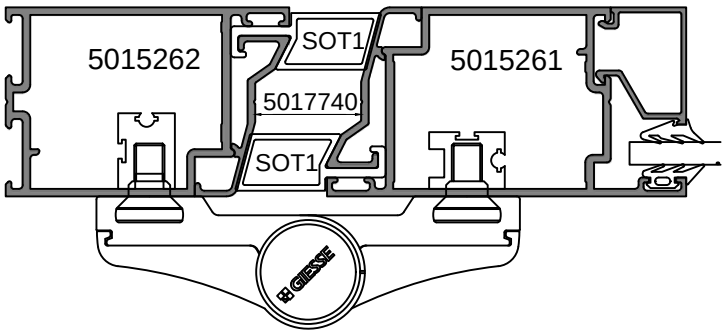


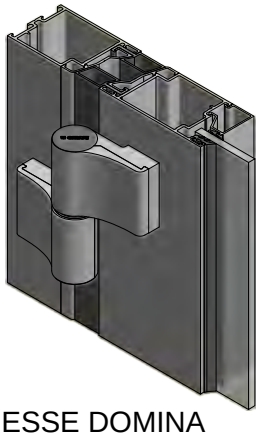
GIESSE DOMINA HP
2-leaf (05160V)



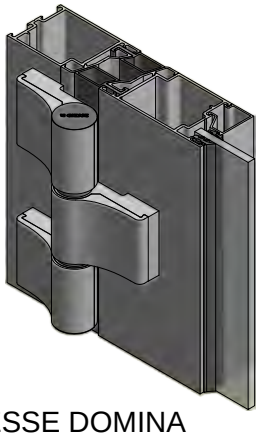
GIESSE DOMINA HP
3-leaf (05161V)







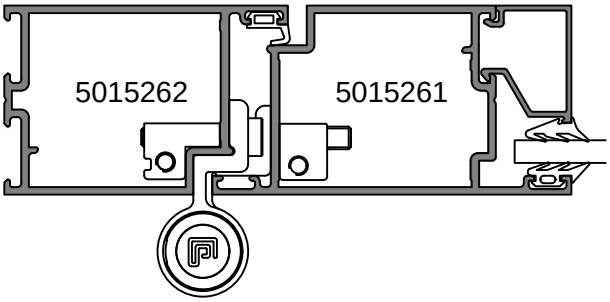
GIESSE DOMINA
HP
2-leaf (05166V)



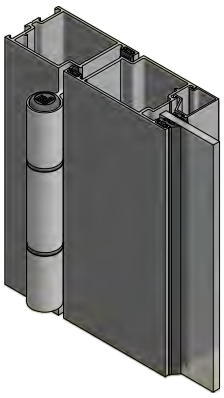
GIESSE DOMINA
HP
3-leaf (05167V)

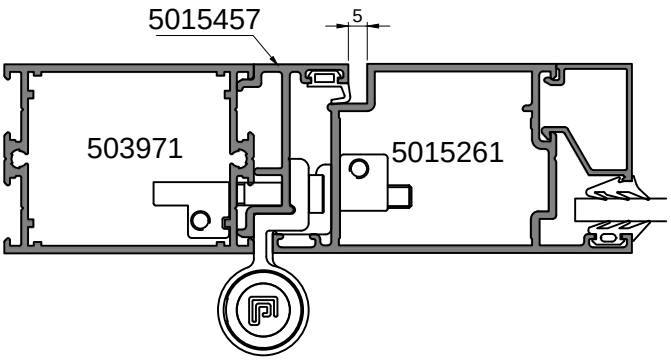
Ovilehden maksimipaino 100kg
Maximum weight of the door leaf 100kg

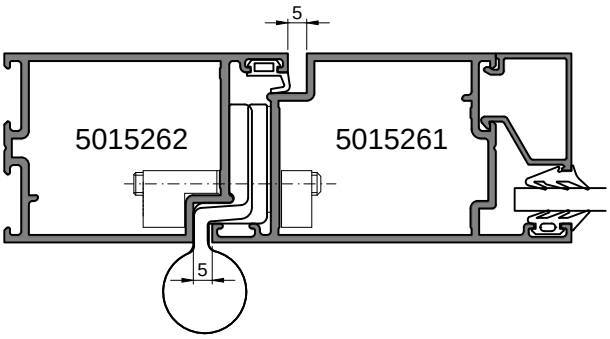
SARANOINTI
HINGES



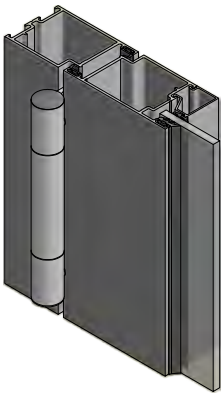
SAVIO-
PUTKISARANA

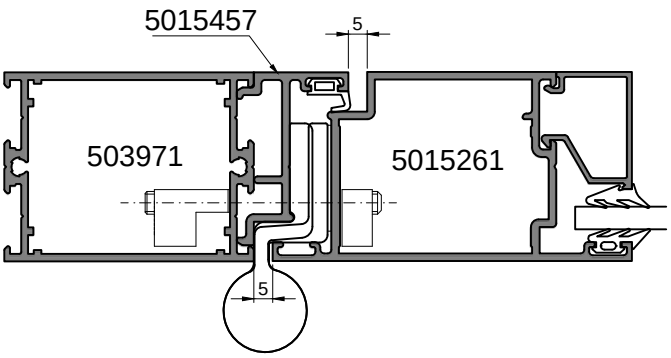


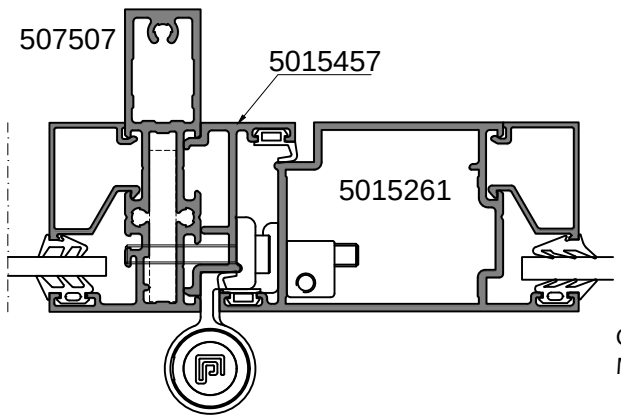




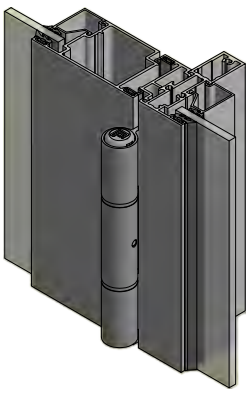
ALPRO-
PUTKISARANA





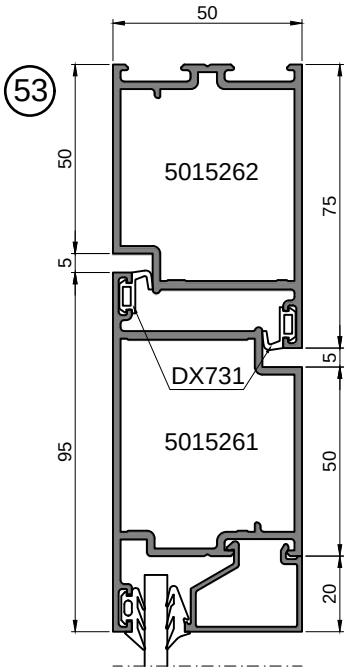


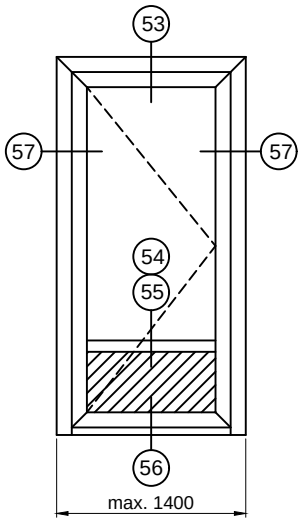
SAVIO-
PUTKISARANA

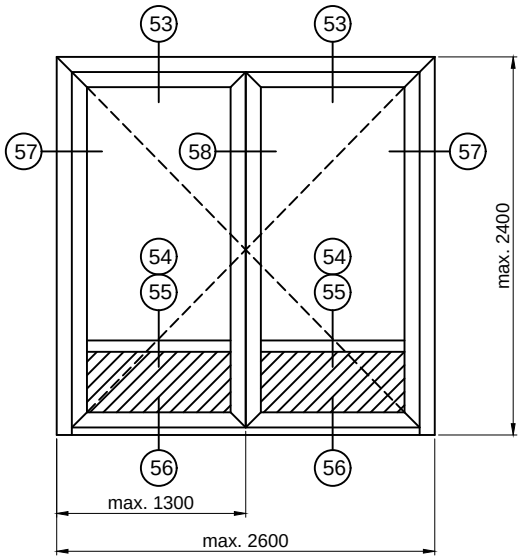


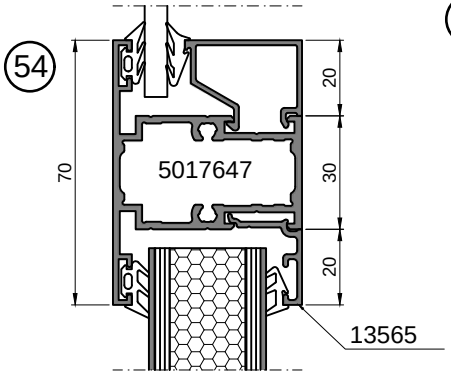
Ovilehden maksimipaino 80kg
Maximum weight of the door leaf 80kg

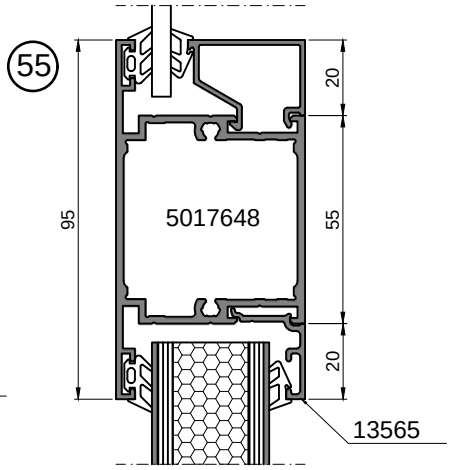
P50 OVI/ PARIOVI
P50 DOOR/ DOUBLE DOOR

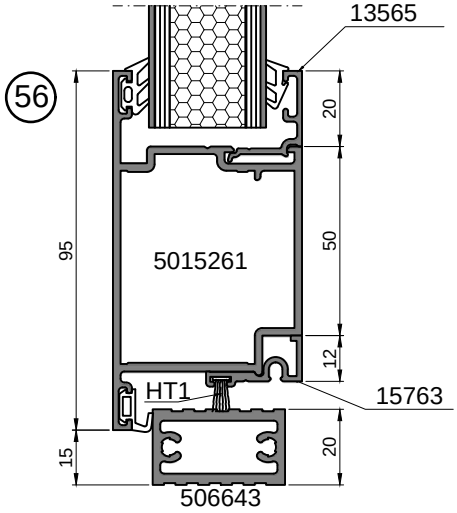


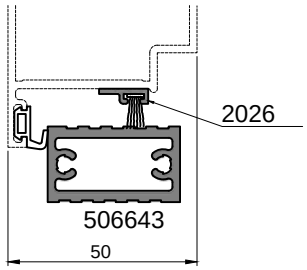


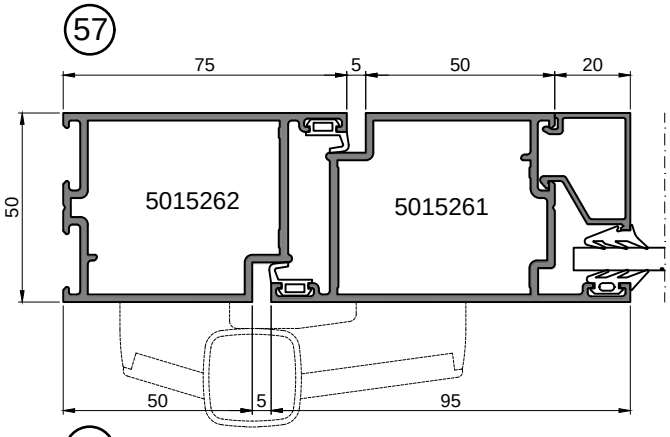


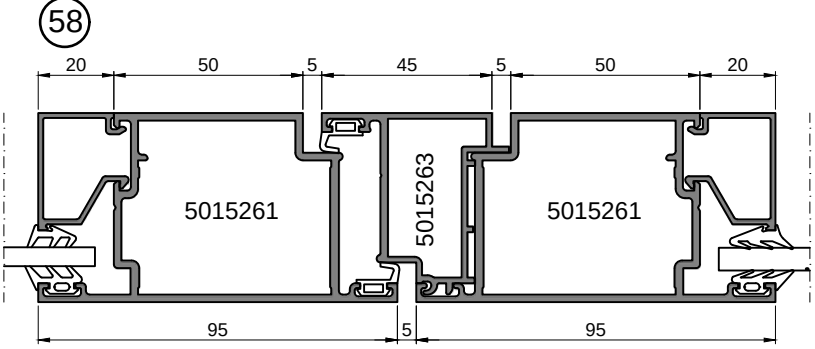




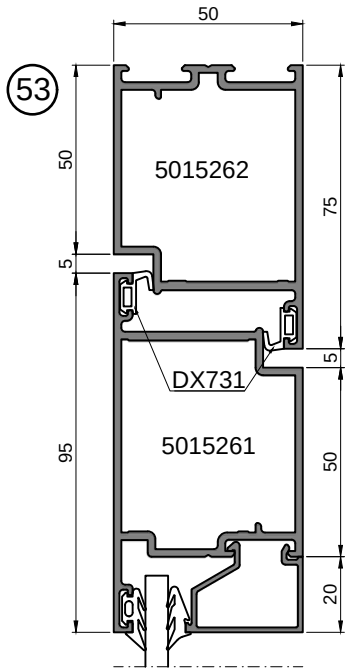


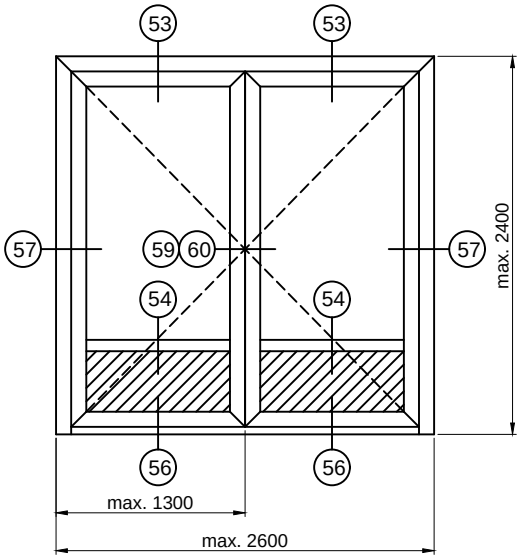


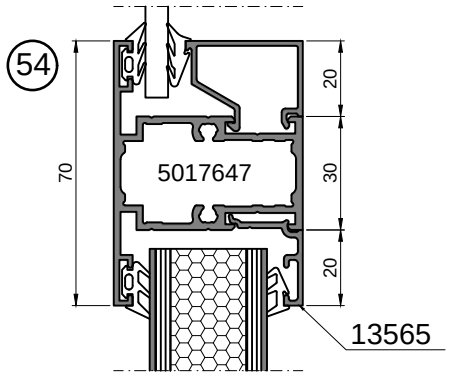


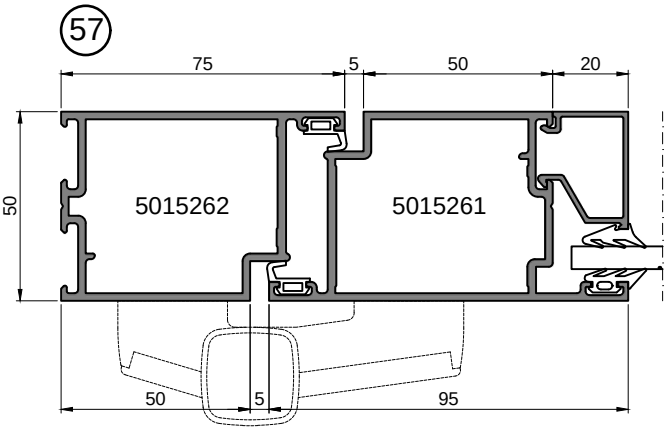


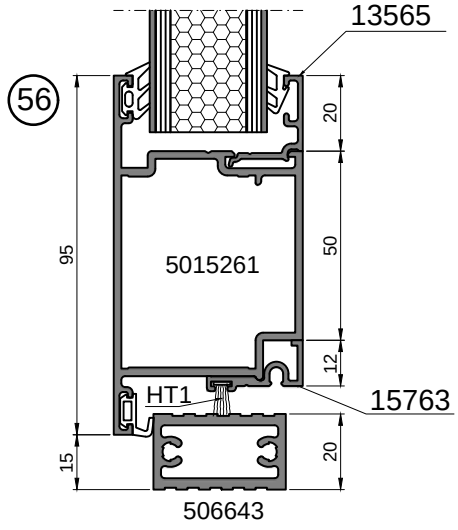
P50 PARIOVI
P50 DOUBLE DOOR

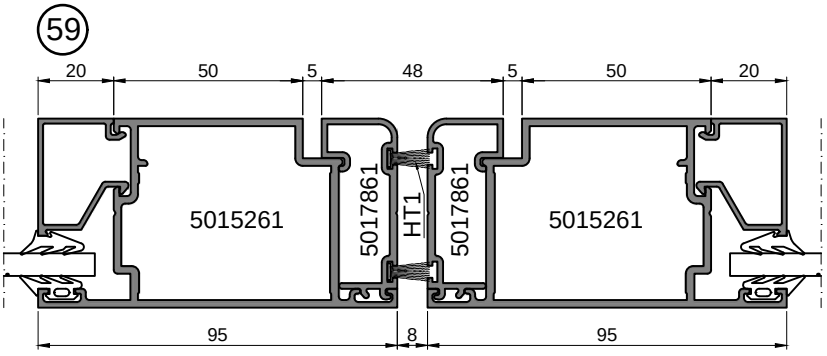


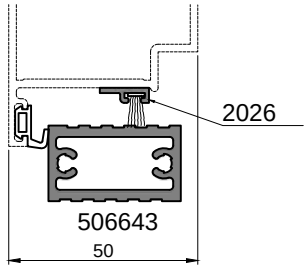


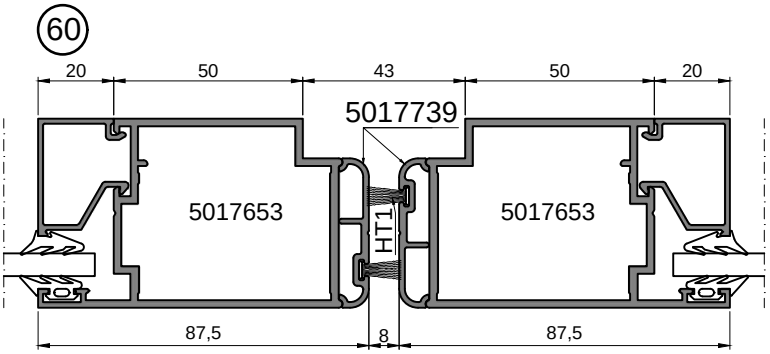


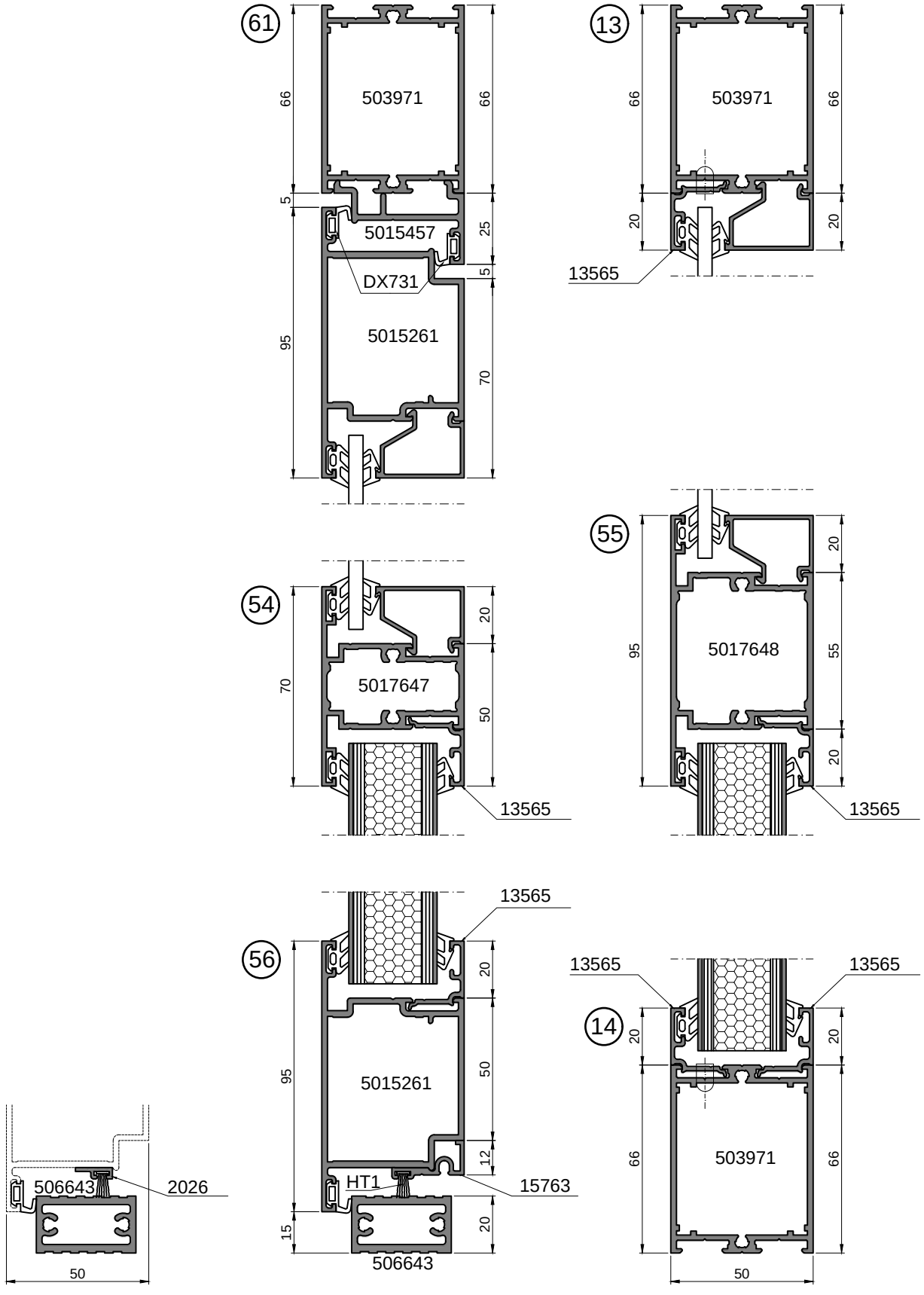











61
503971
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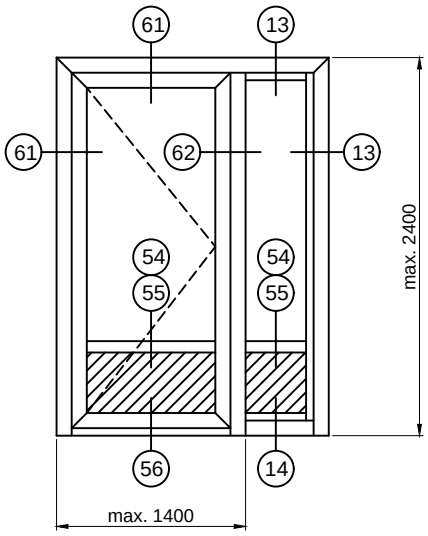
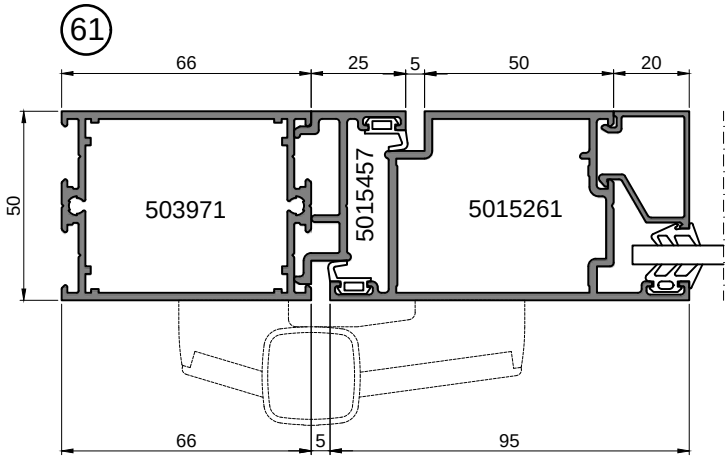
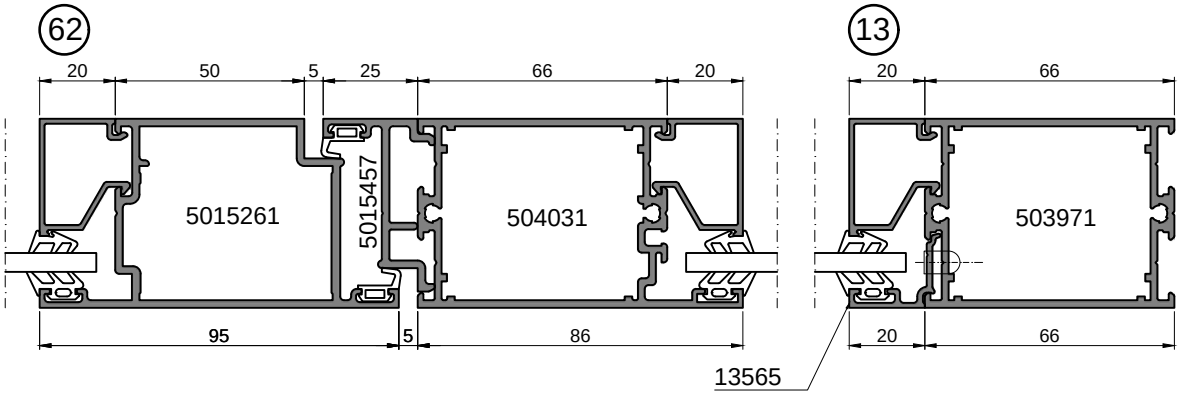
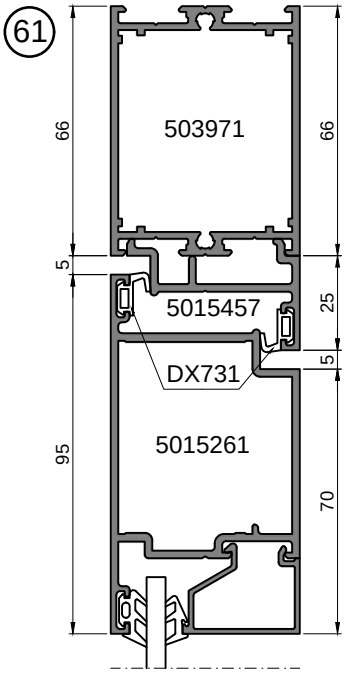
66
5
25
5015457
DX731
5
95
5015261
70
13
503971
66
66
20
20
13565
54
20
5017647
70
50
13565
55
20
5017648
95
55
20
13565
56
13565
20
95
5015261
50
12
HT1
15763
15
20
506643
506643
2026
50
13565
13565
14
20
20
503971
66
66
50

P50 OVI SIVUPIELELLÄ
P50 DOOR WITH SIDE LIGHT





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DX731
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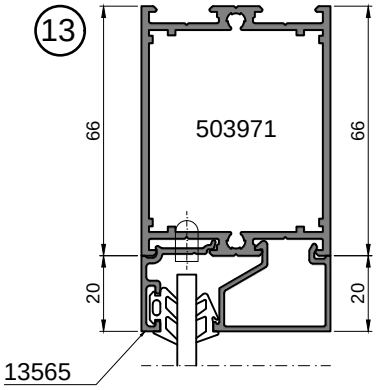
5015261
70


13
503971
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20
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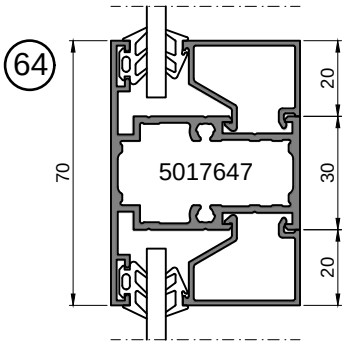
13565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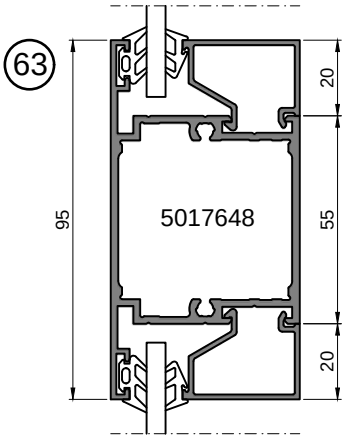
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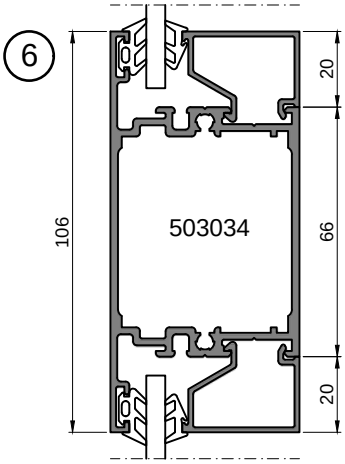
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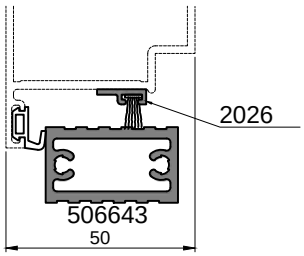
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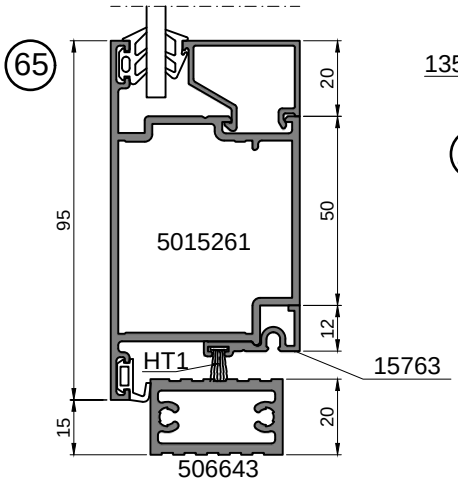
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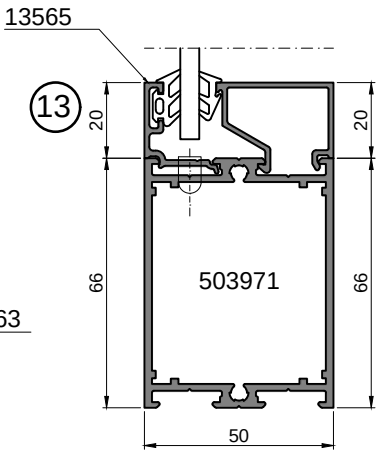
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503971
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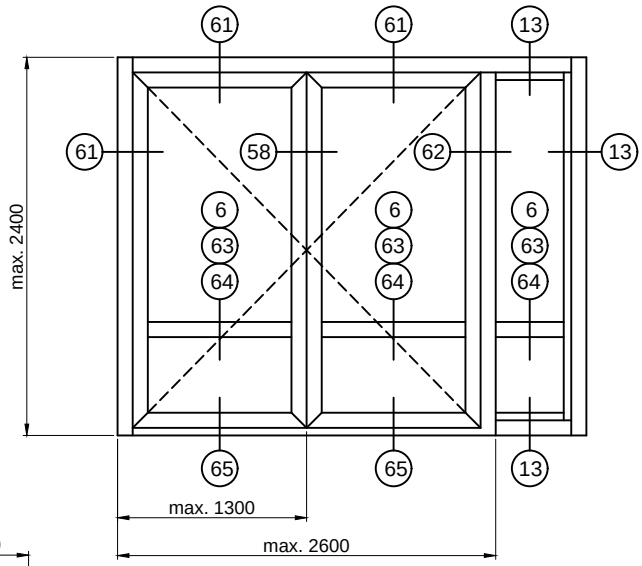
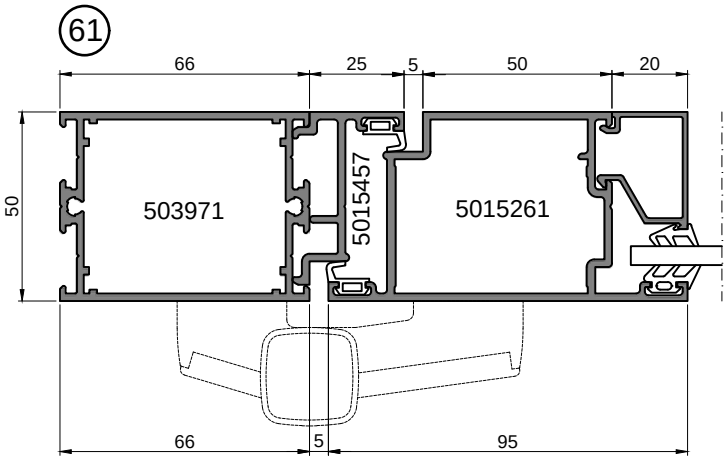
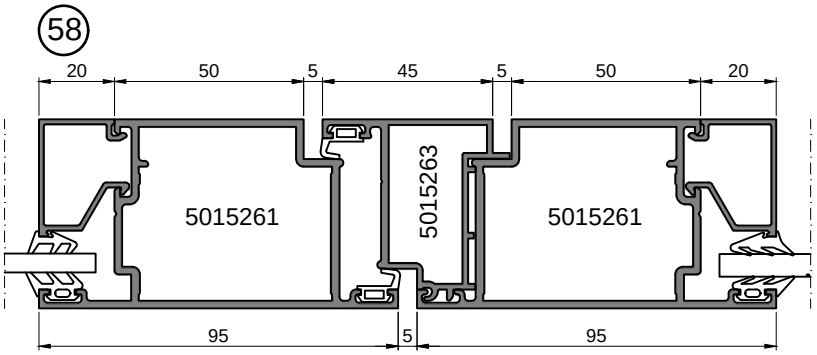
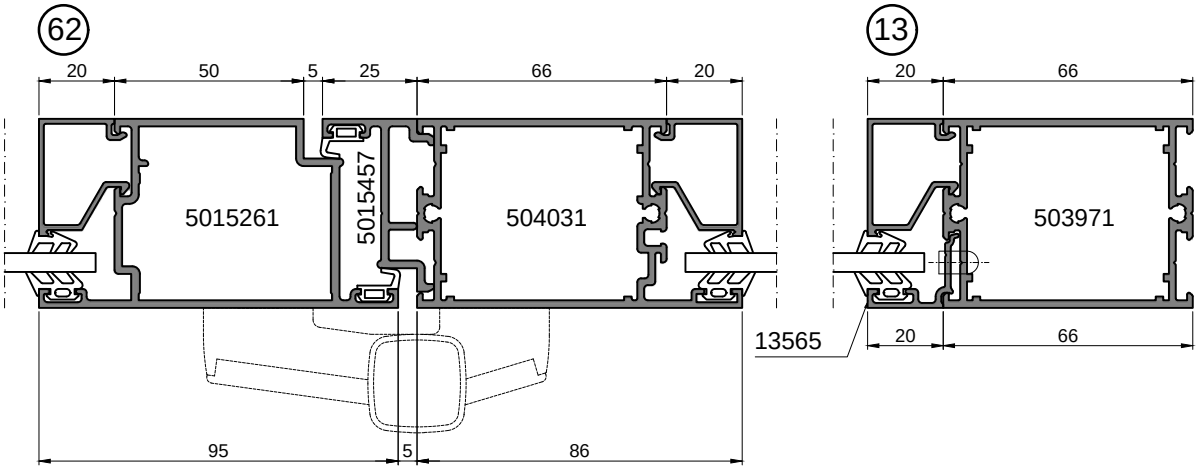
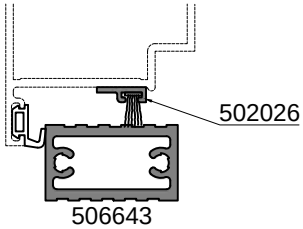
P50 PARIOVI SIVUPIELELLÄ
P50 DOUBLE DOOR WITH SIDE LIGHT







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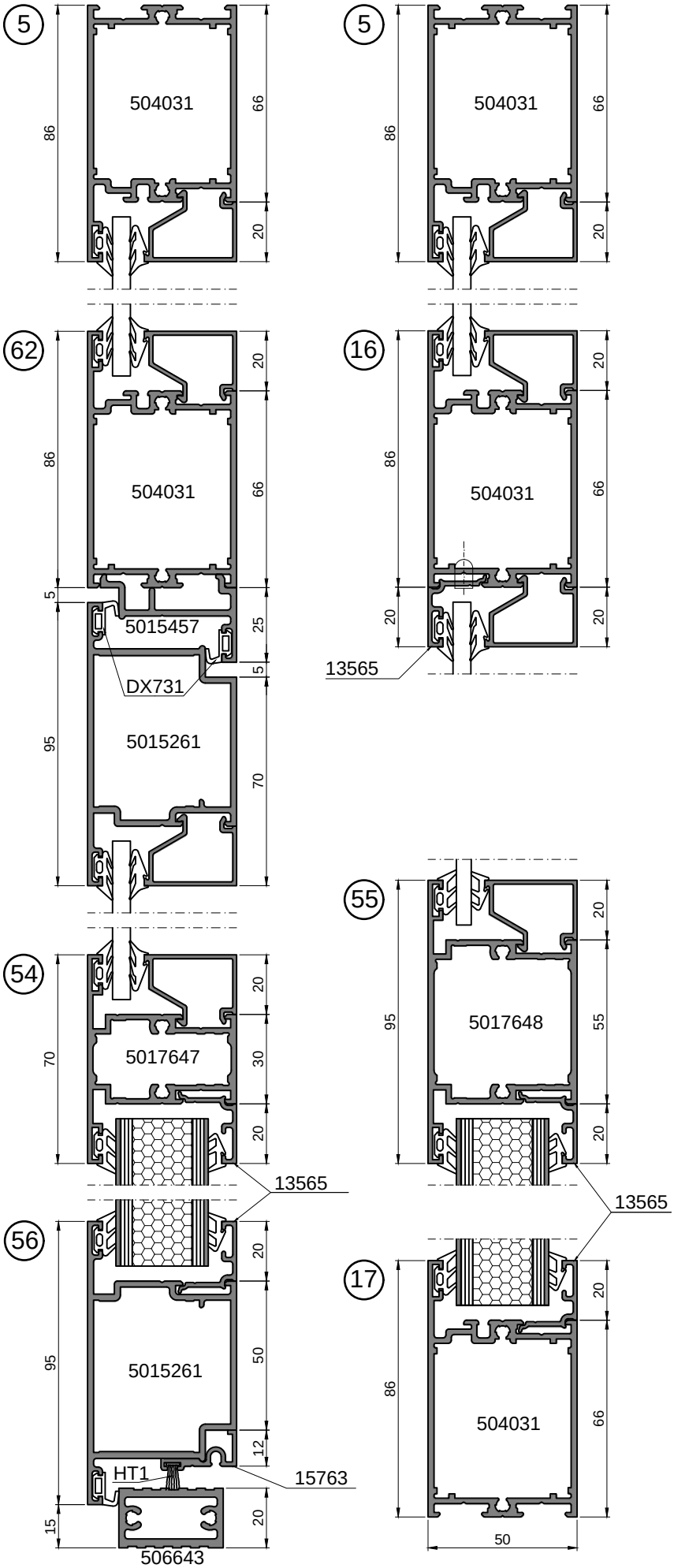
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13565
13565
56
5015261
95
50
20
12
HT1
15763
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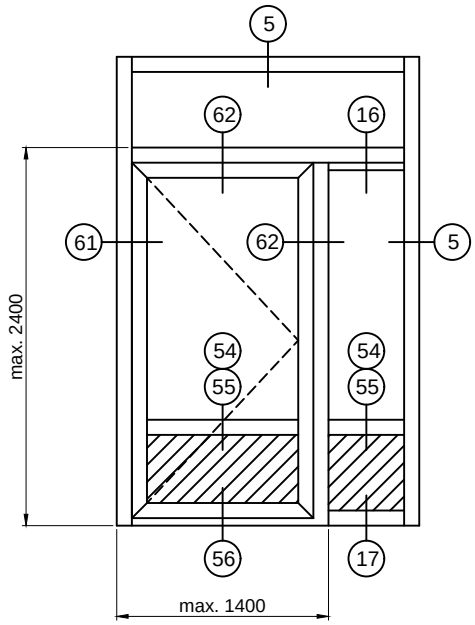
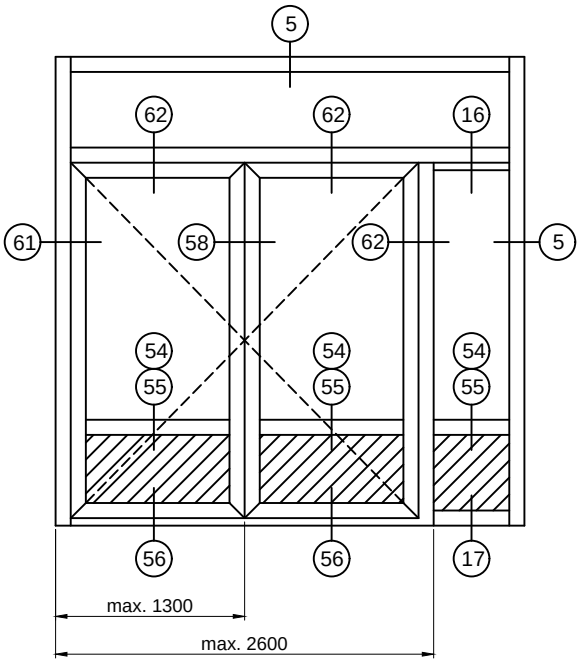
20
50

P50 OVI SIVU- JA YLÄPIELELLÄ
P50 DOOR WITH SIDE AND UPPER LIGHT





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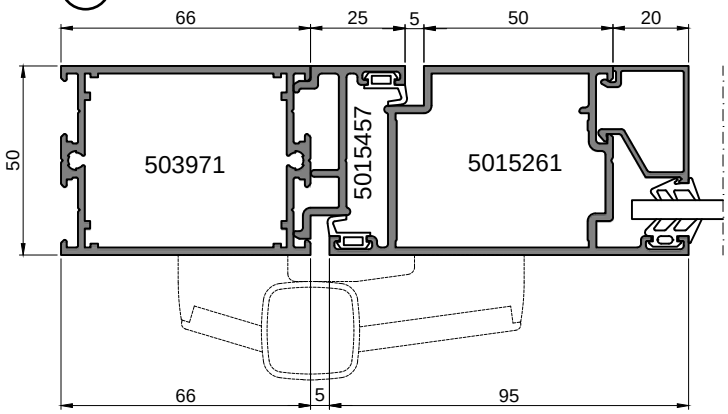

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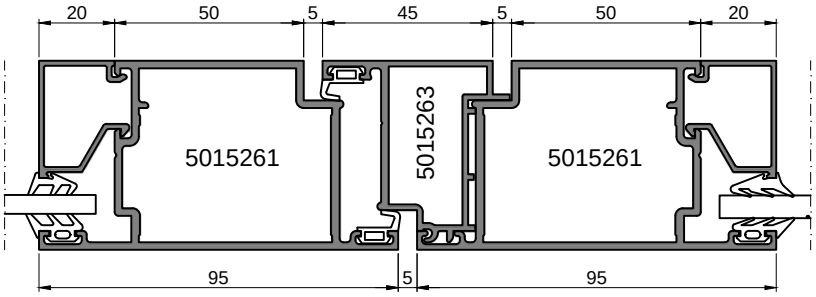

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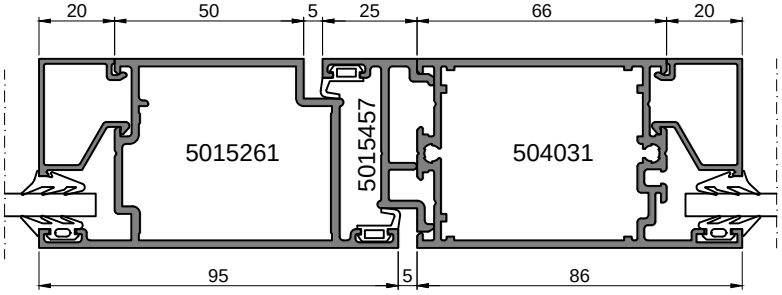

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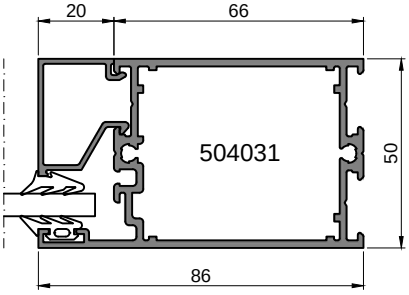

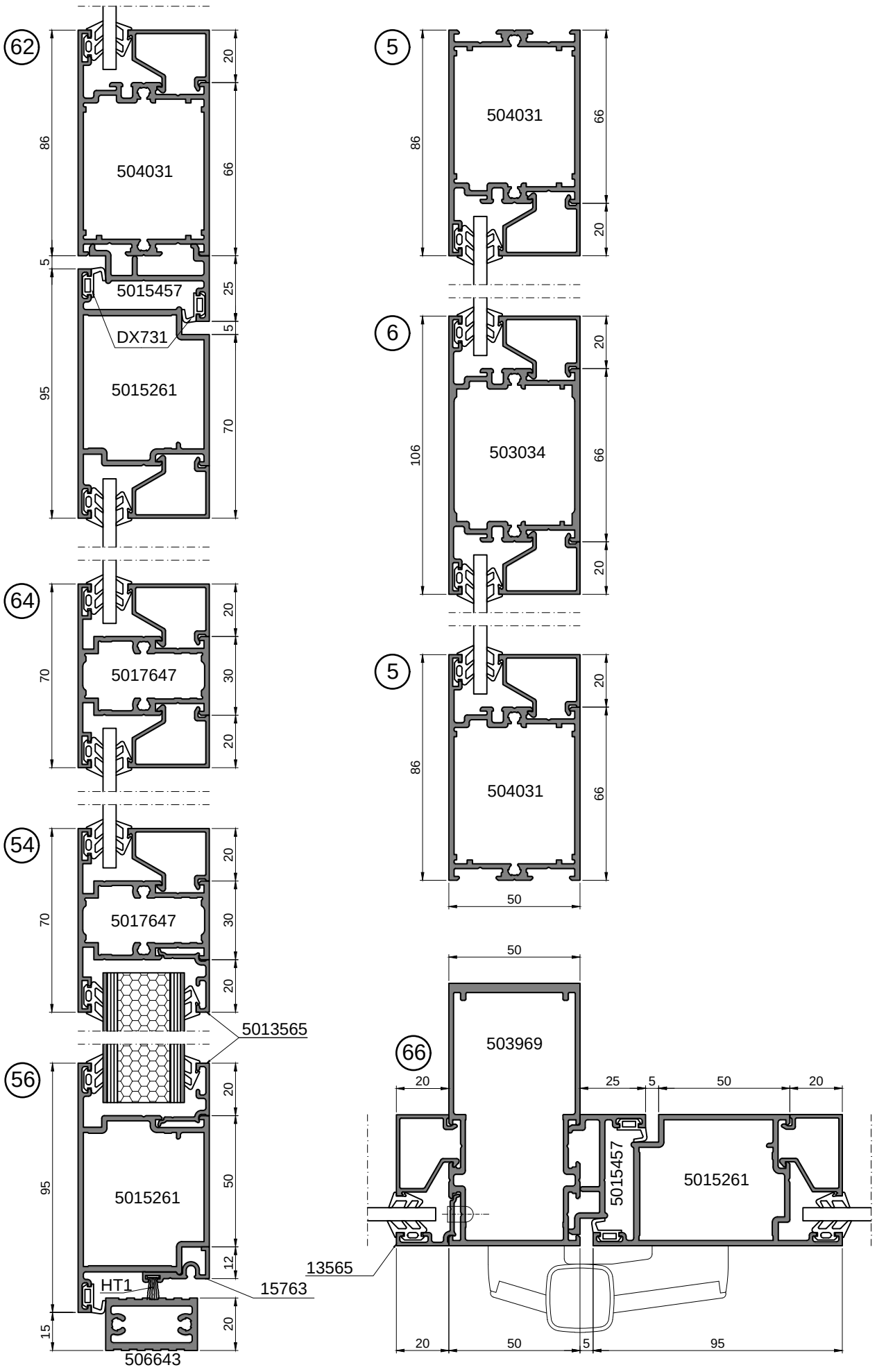
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504031
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5017647
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HT1
15763
506643
15
12
50
5
504031
6
503034
106
503969
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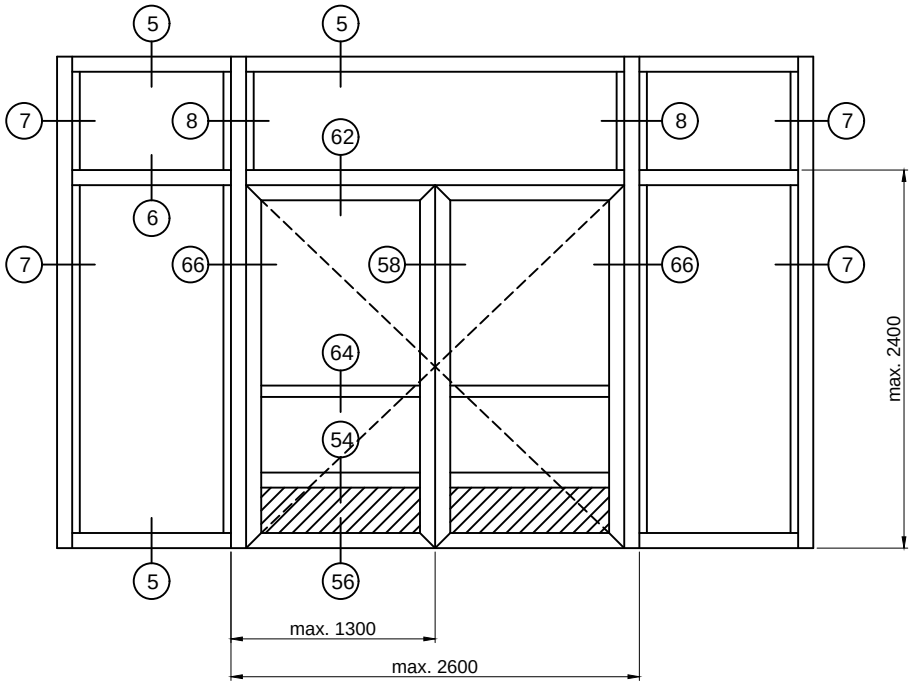
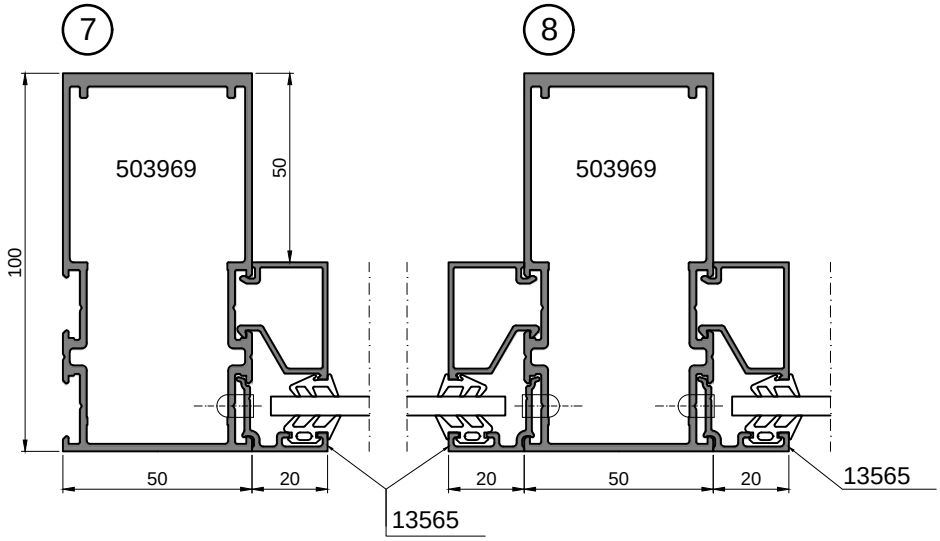
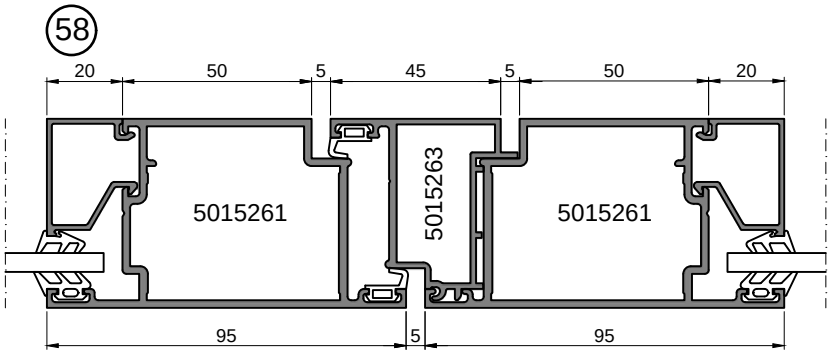
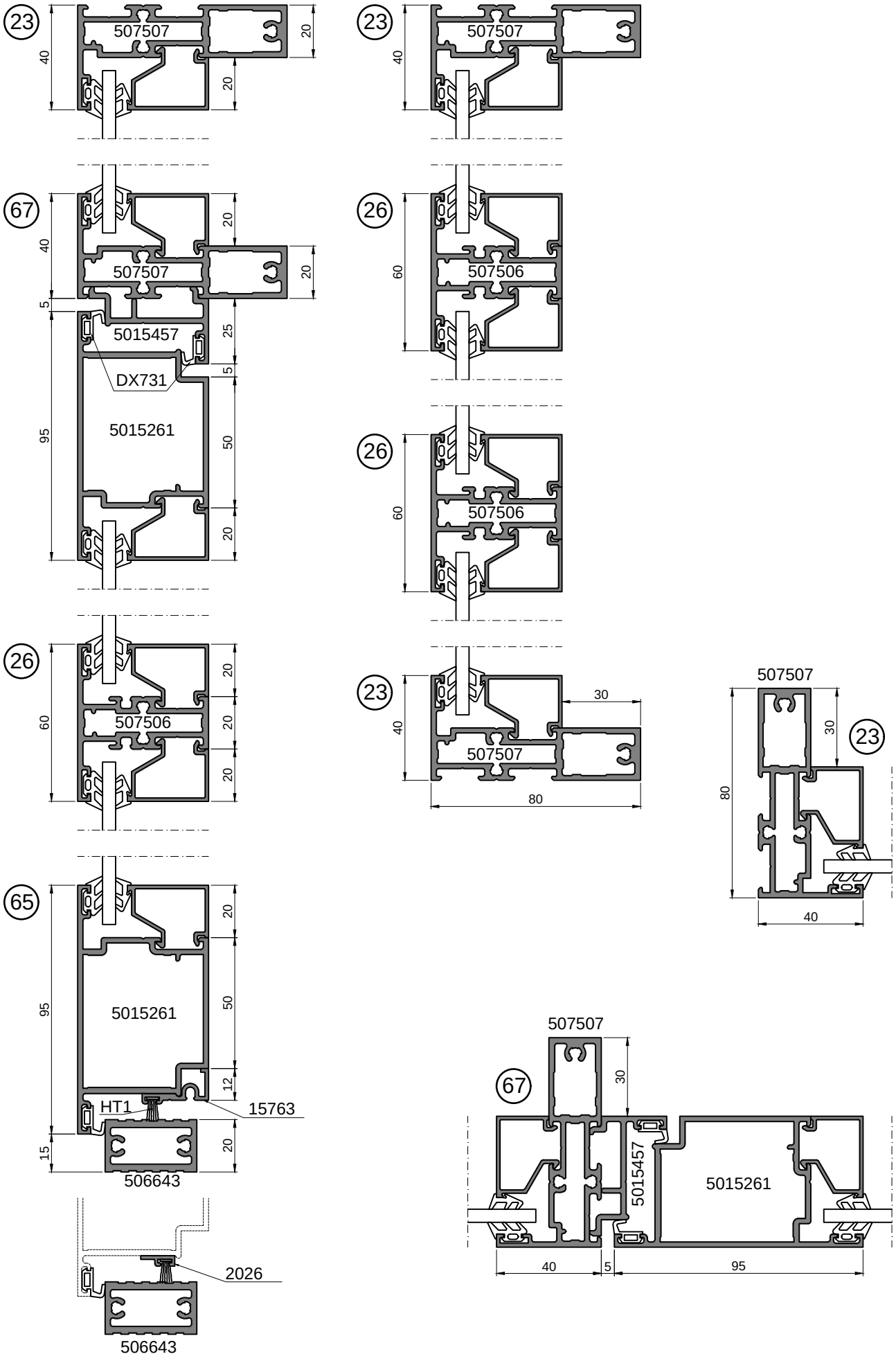
25
50
5015457
13565
95

P50 PARIOVI LASISEINÄSSÄ
P50 DOUBLE DOOR IN A GLASS WALL





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12
HT1
15763
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506643
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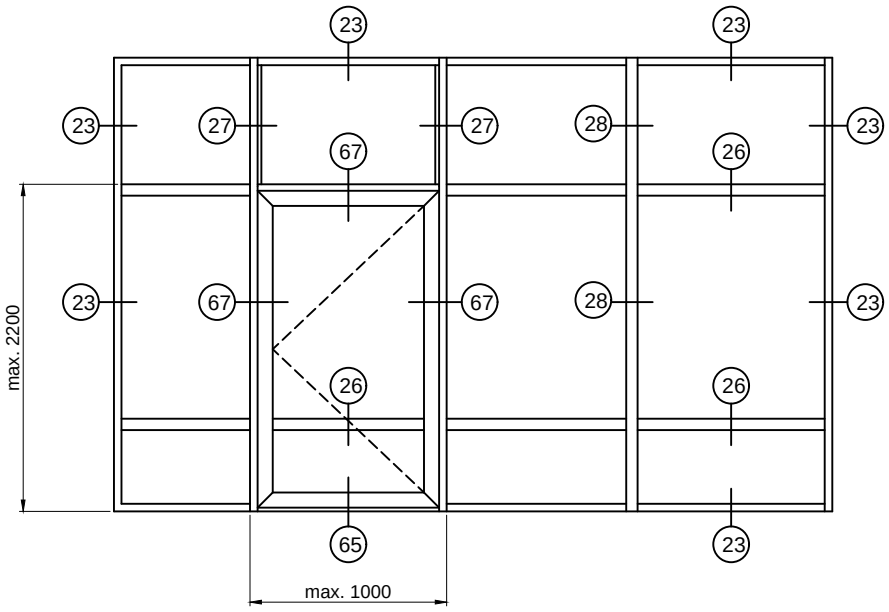
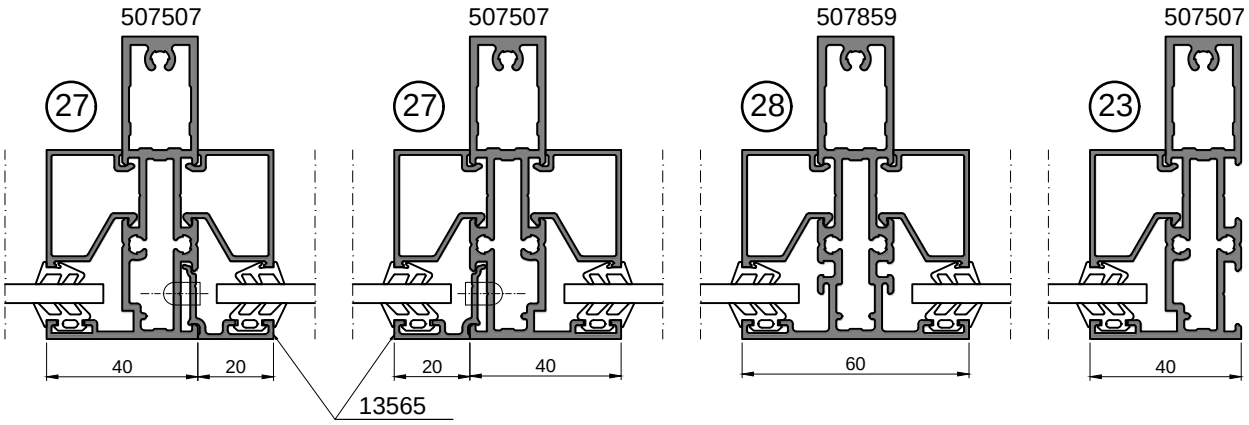
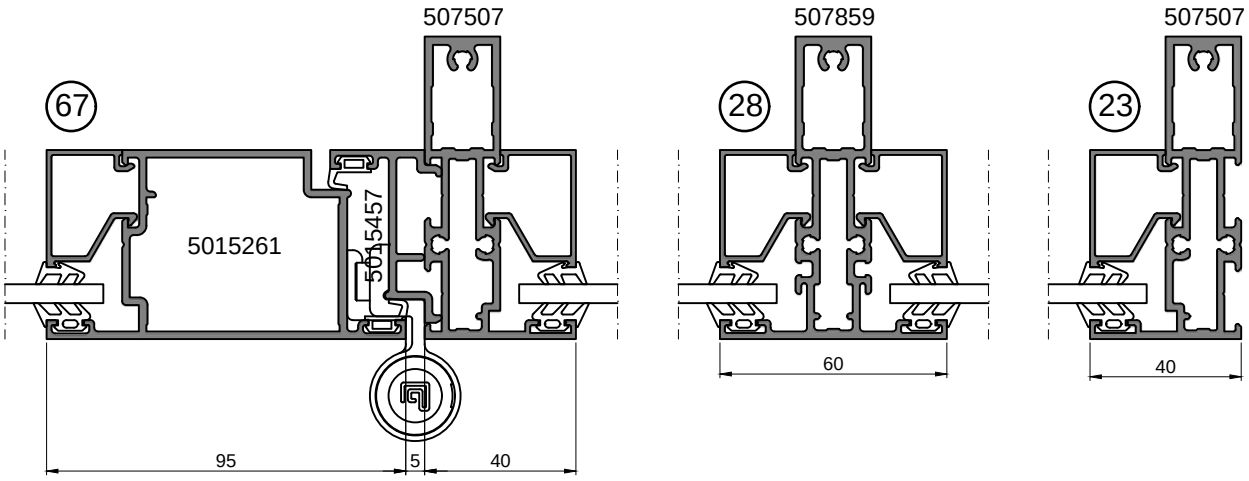
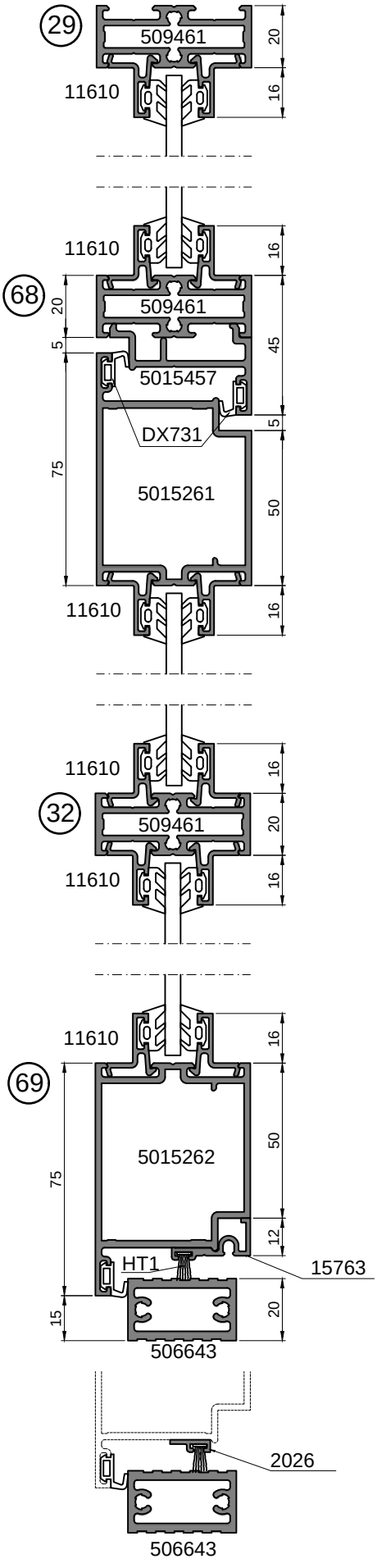
5
95

P50 OVI LASISEINÄSSÄ
P50 DOOR IN A GLASS WALL





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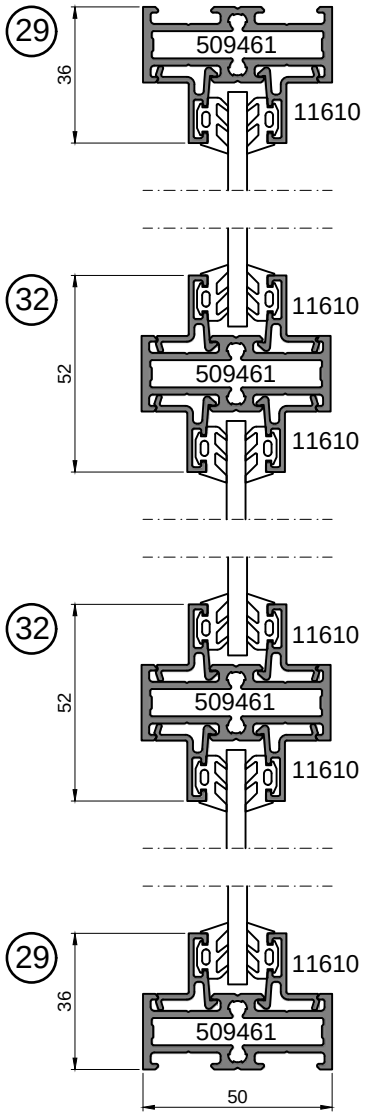
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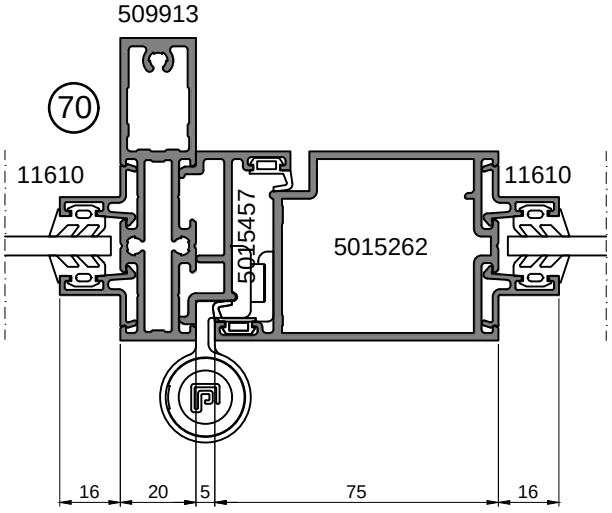
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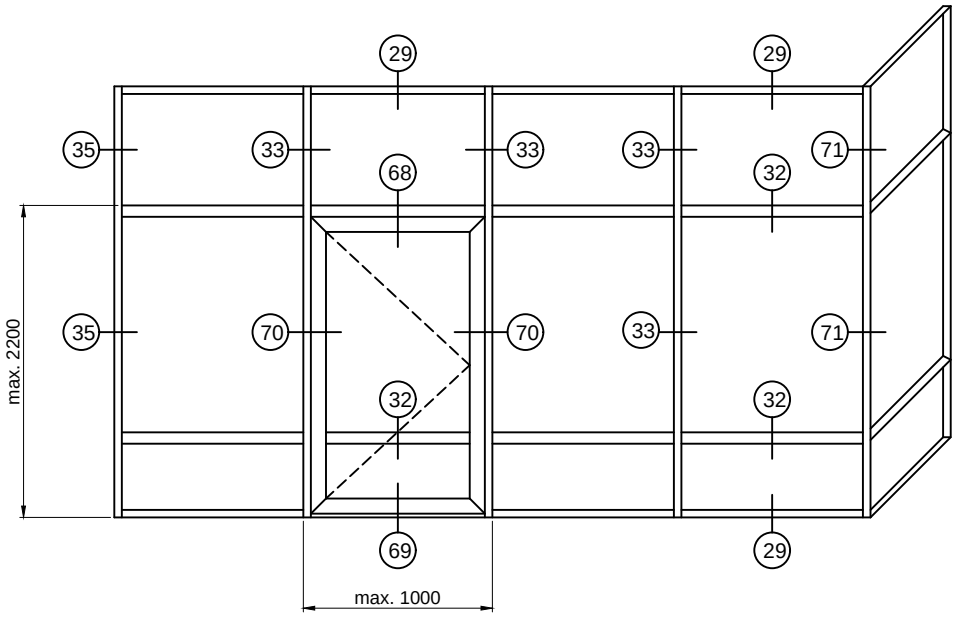
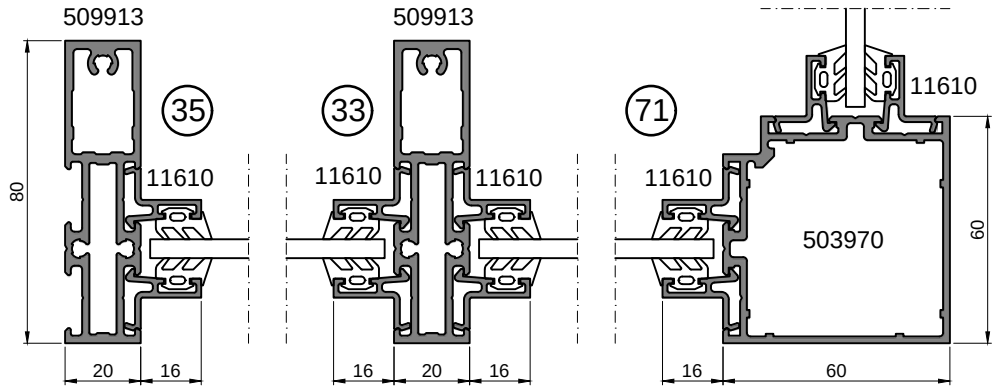
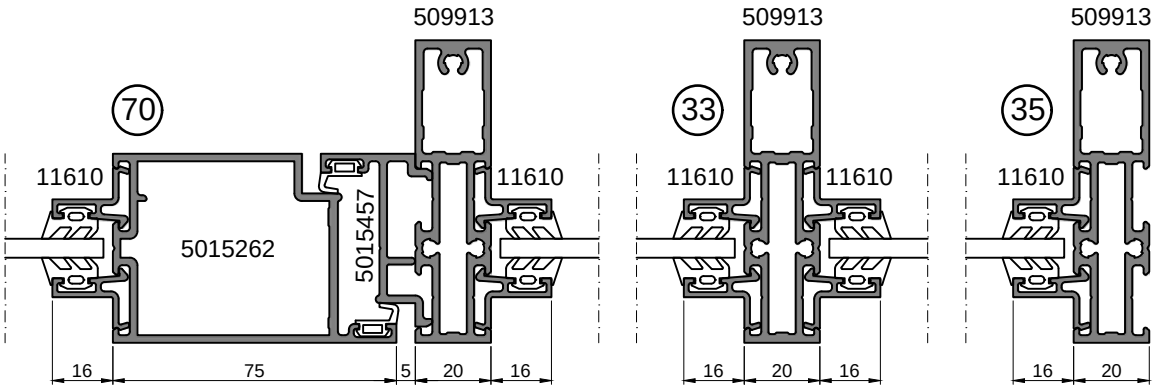
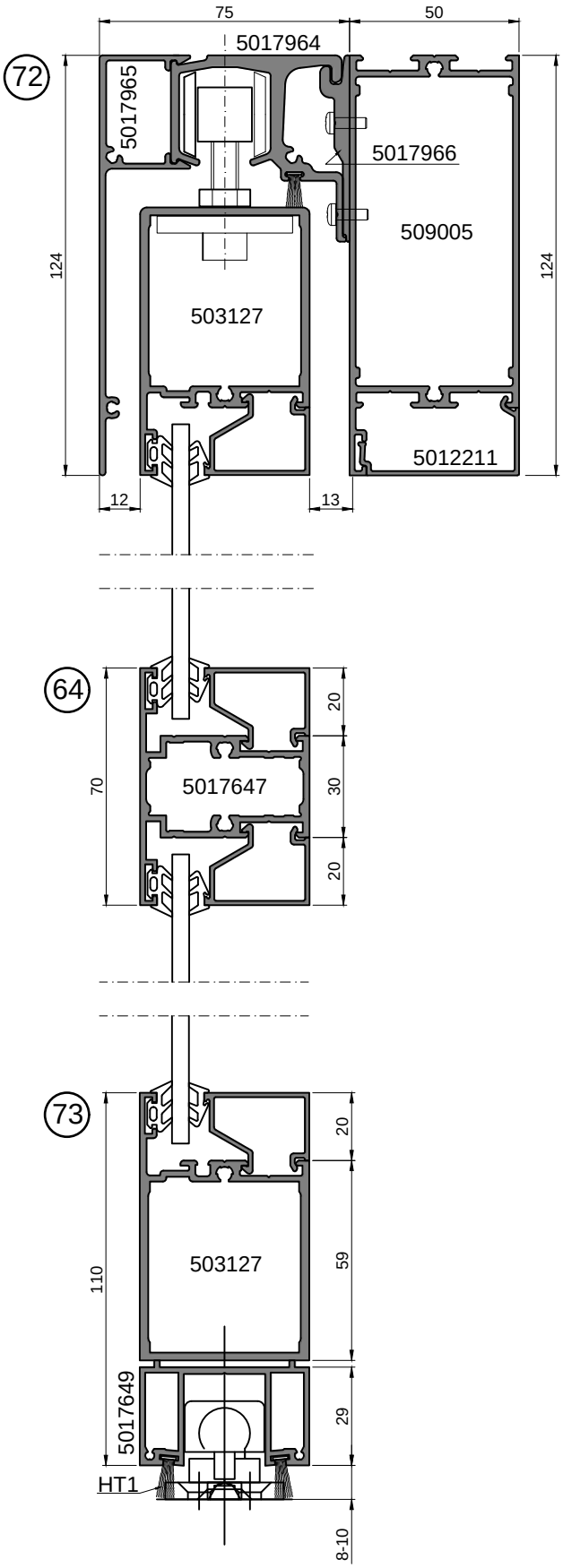
75
16

P50 OVI LASISEINÄSSÄ
P50 DOOR IN A GLASS WALL



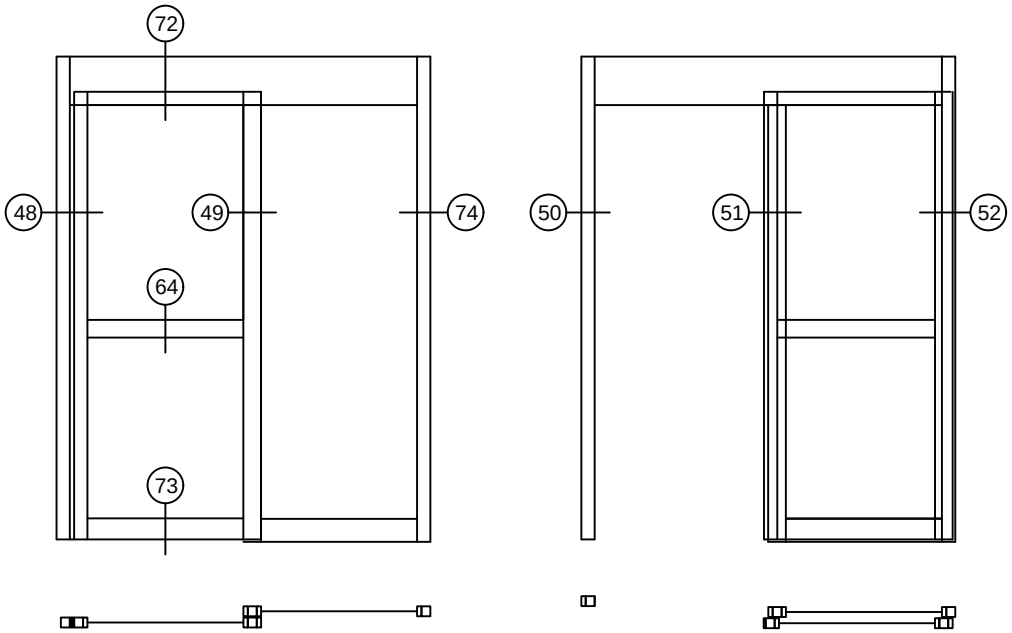


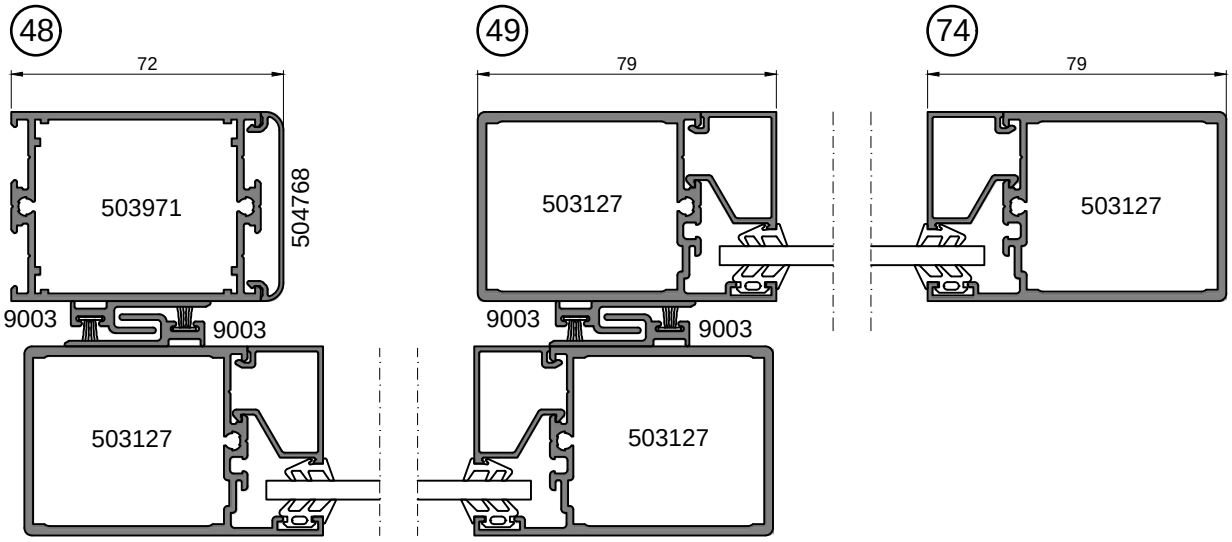


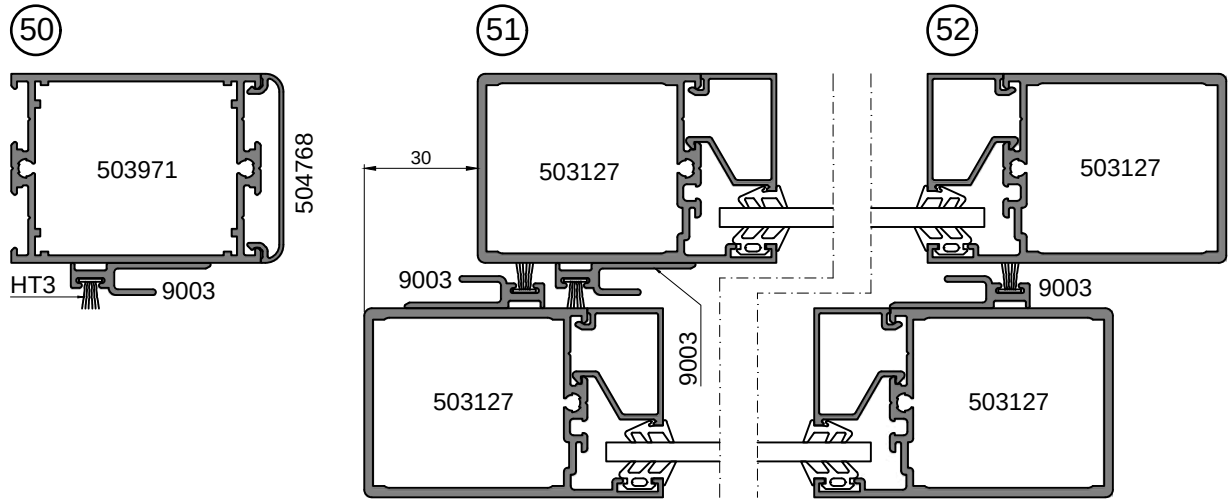


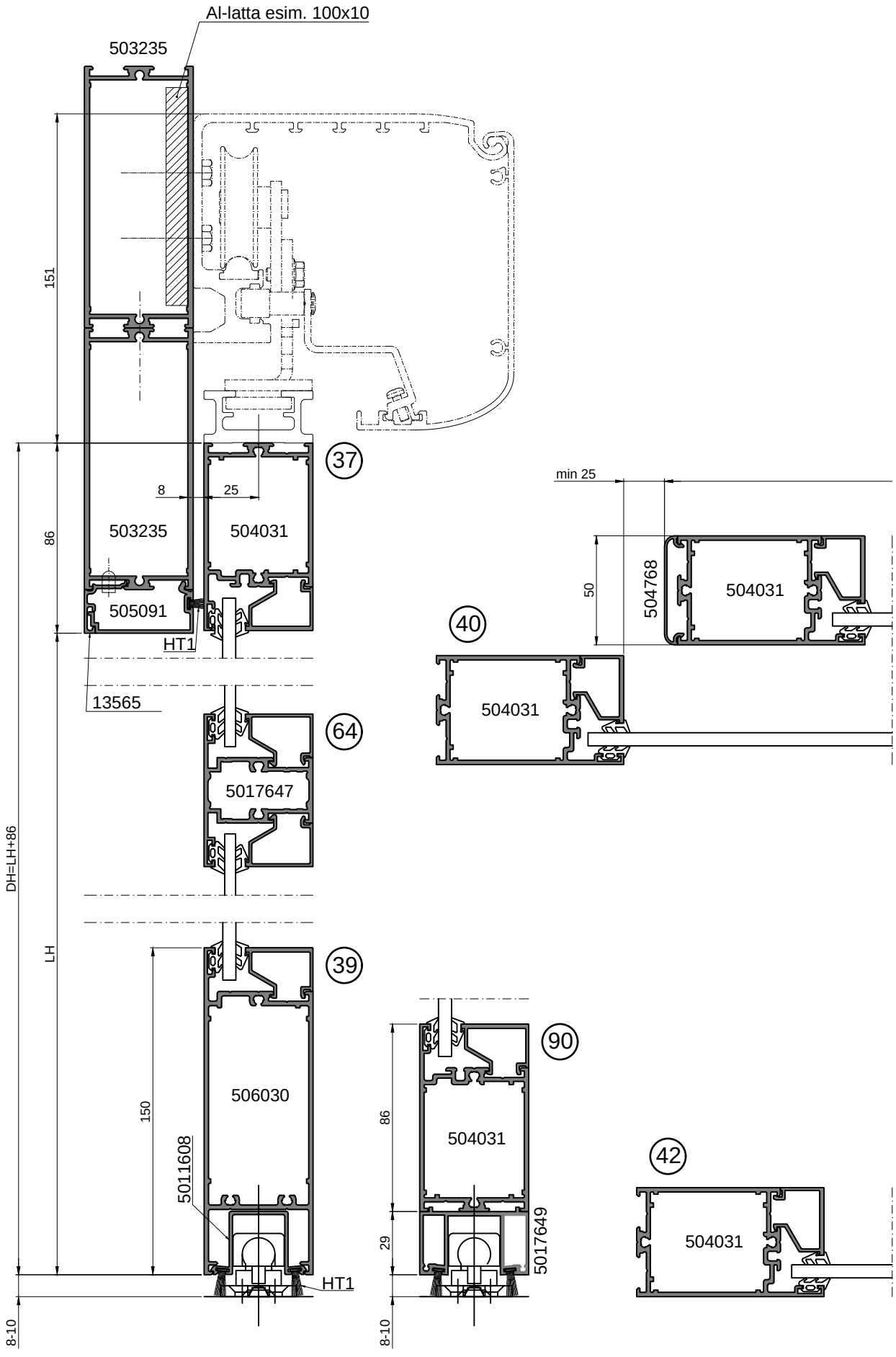
Pyörästöt esim.
Abloy DF4530
max. ovilehden paino 90 kg

P50 LIUKUOVI
P50 SLIDING DOOR








Al-latta esim. 100x10
503235
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HT1
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DH=LH+86
LH
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150
506030
5011608
HT1
8-10
min 25
50
504768
504031
40
504031
90
86
504031
29
5017649
8-10
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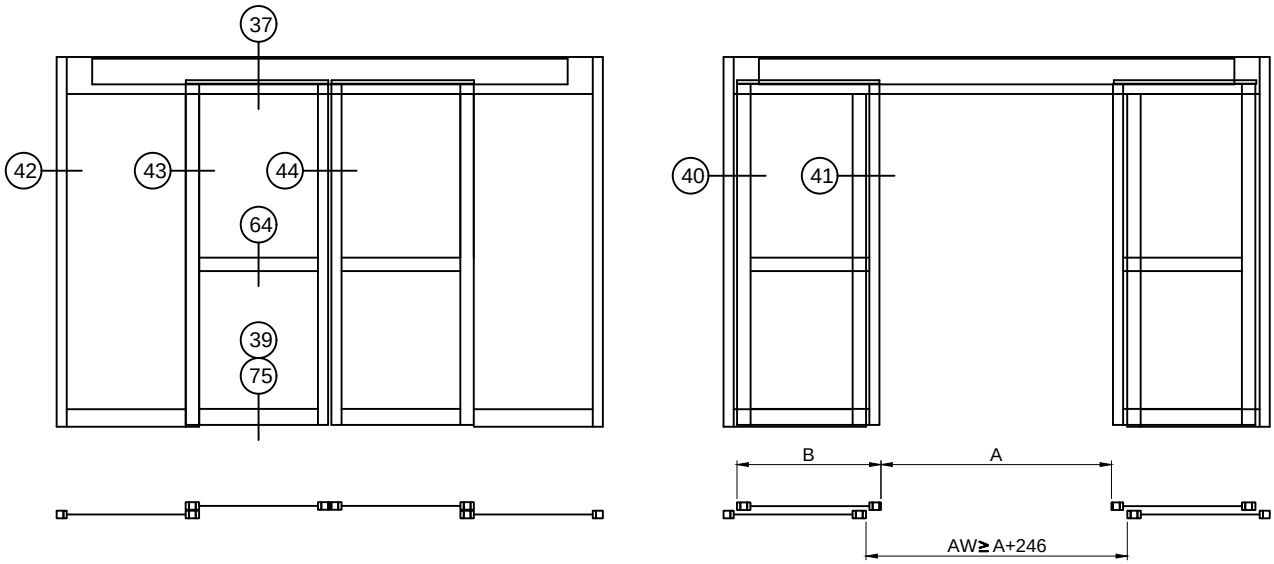
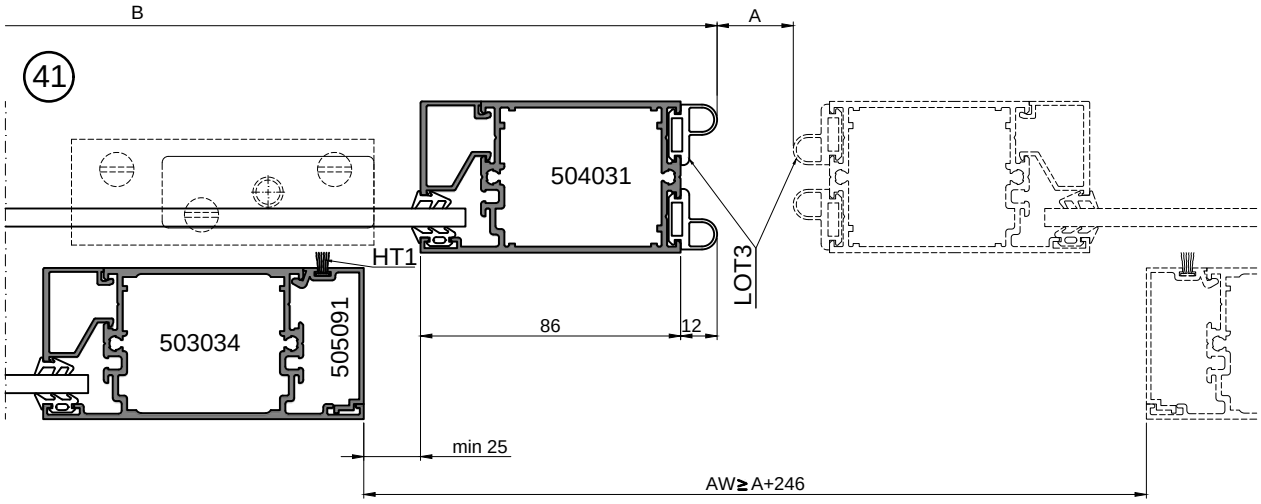
504031

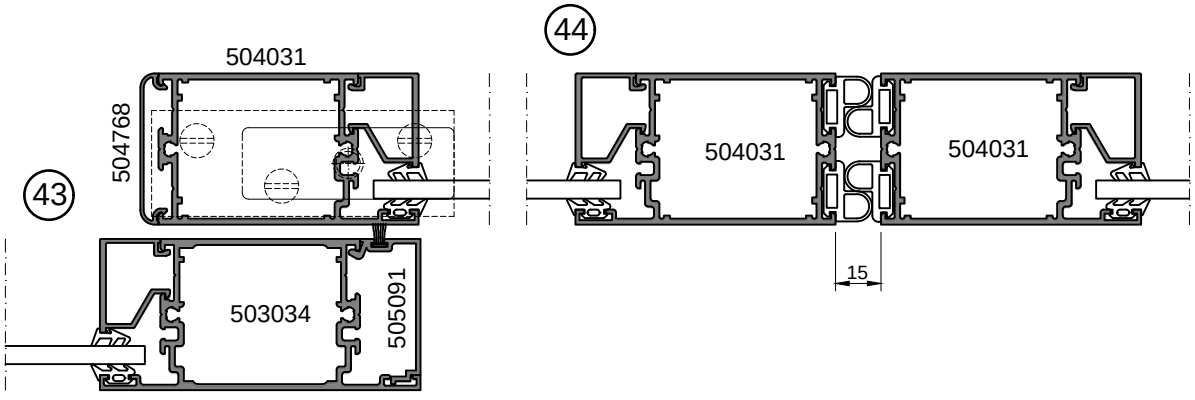
P50 LIUKUOVI BESAM UNISLIDE-2 AVAAJALLA
P50 SLIDING DOOR WITH BESAM UNISLIDE-2 OPERATOR





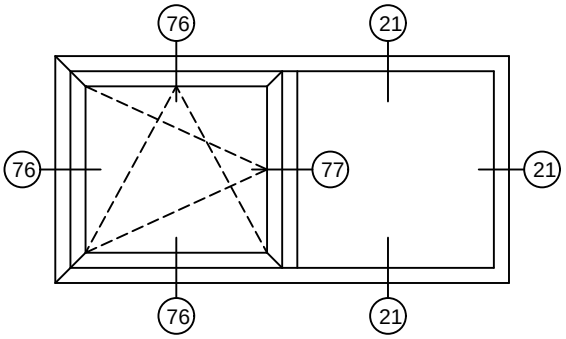
A = oviaukon leveys (900-2800 mm)
B = ovilehden leveys
AW = kiinteän osan aukon leveys
LH = aukon korkeus
DH = ovilehden korkeus

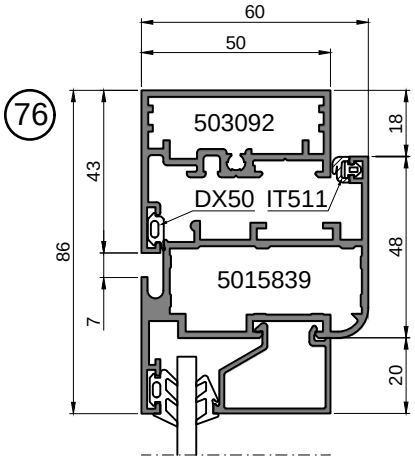
A = door travel (900-2800 mm)
B = door leaf width
AW = aperture width, fixed screen
LH = clear opening height
DH = door leaf height

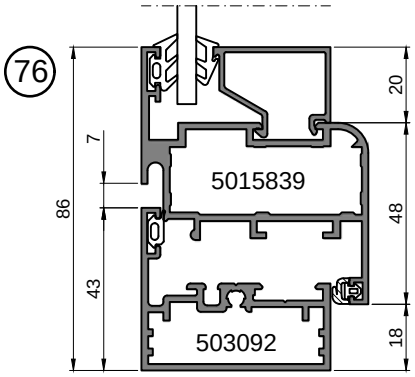


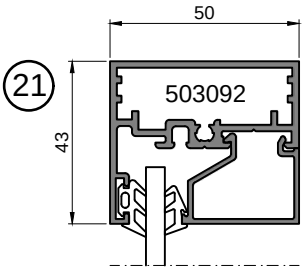
P50 AVATTAVA IKKUNA
-sivusaranoitu
-sivu- / alasaranoitu

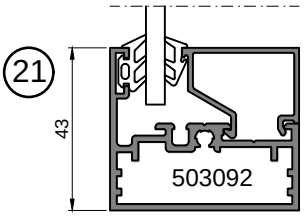
P50 OPENABLE WINDOW
-side hung
-side / bottom hung

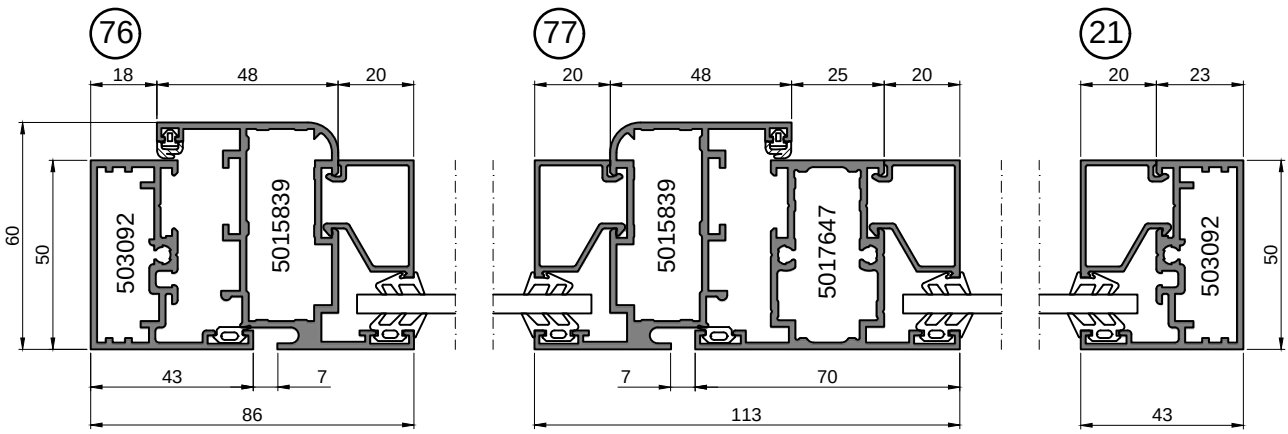




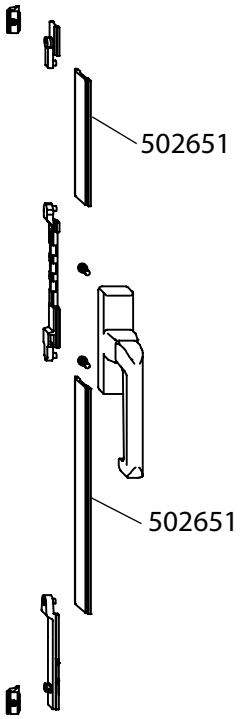




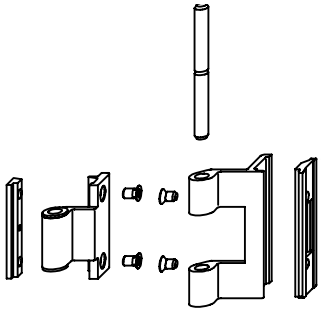




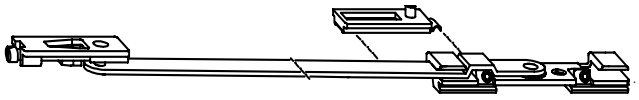
IKKUNAN HELAT
FITTINGS FOR WINDOWS



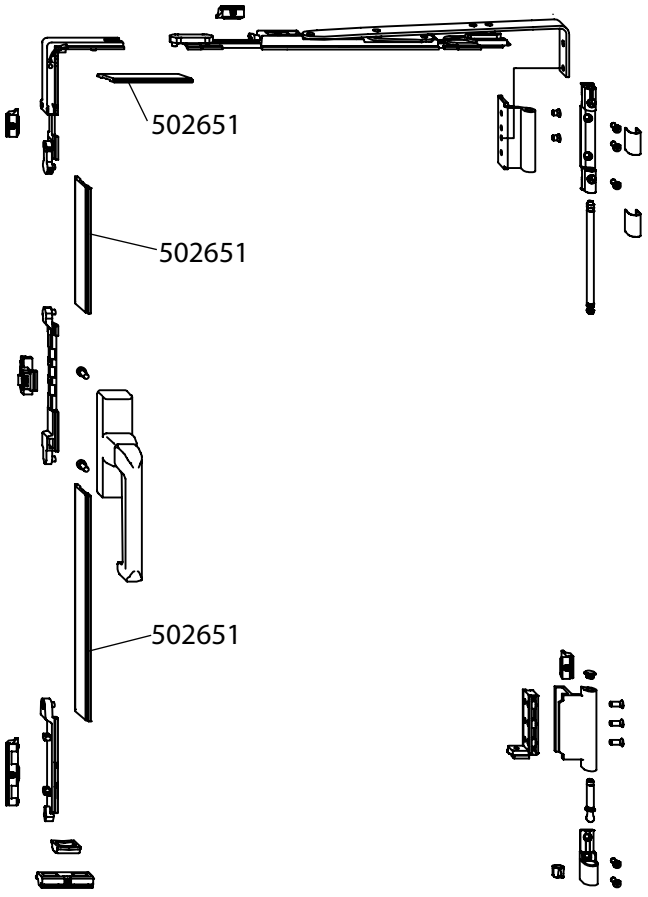
Siegenia painike
Siegenia side hung fitting



FASA sarana
FASA hinge



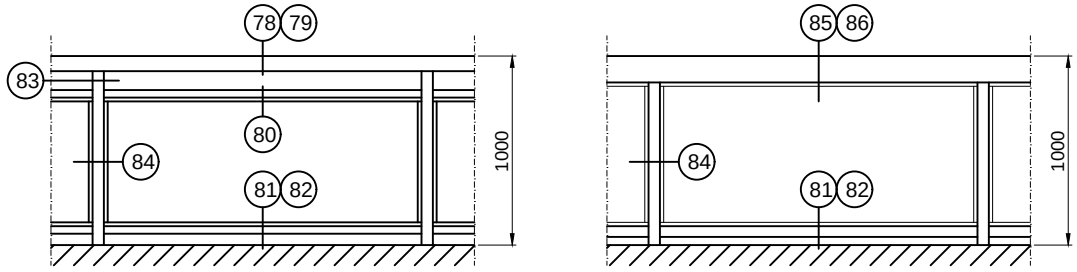
Siegenia aukipitolaite
Siegenia limit stay / friction stay

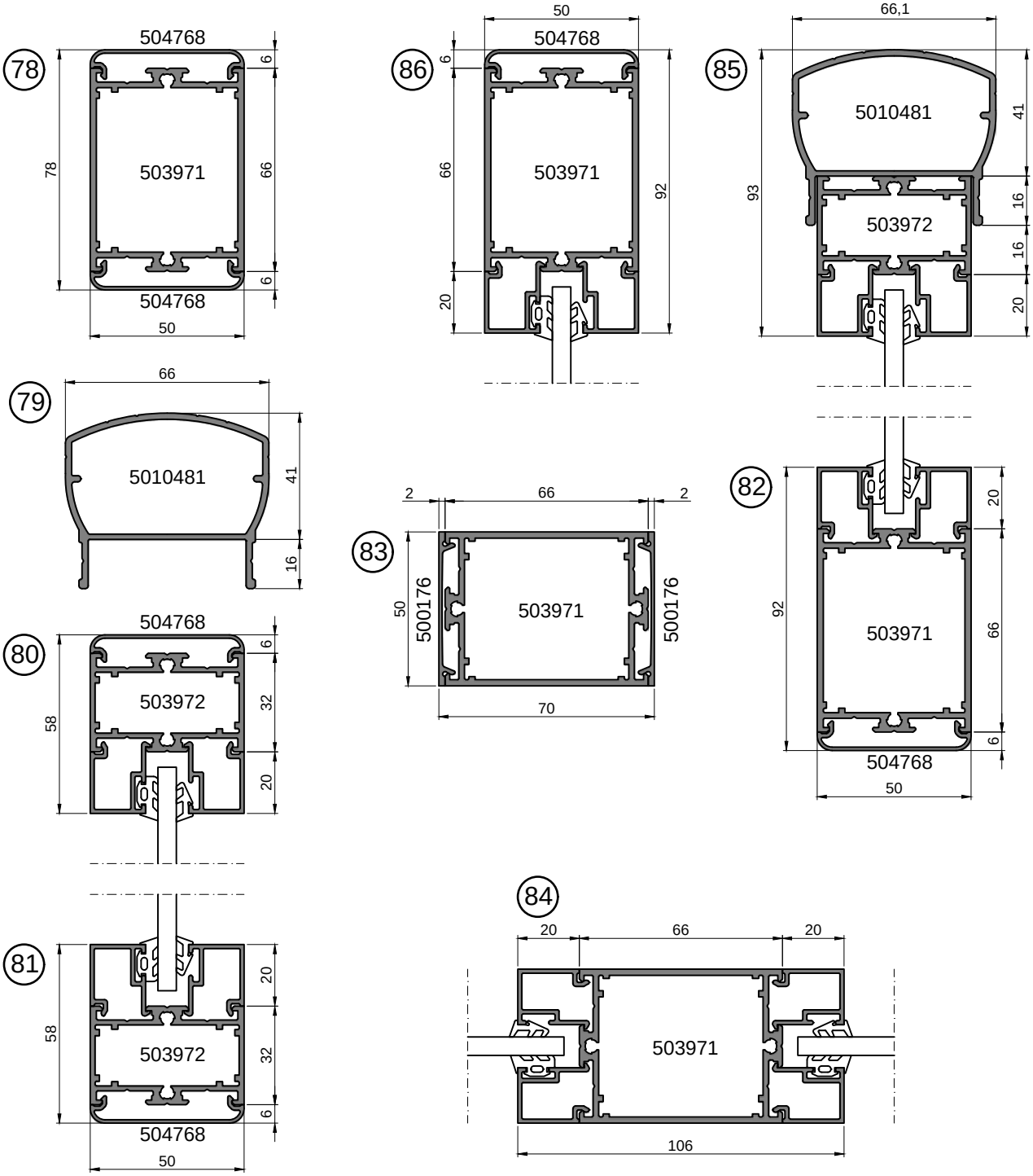


Siegenia LM 4200 sivu/alasaranoitu helasarja
Siegenia LM 4200 side/bottom hung fitting

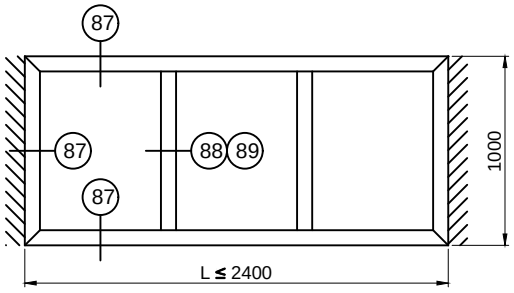
LIUKUKISKO 502651 EI KUULU HELASARJAAN. TILATTAVA ERIKSEEN.

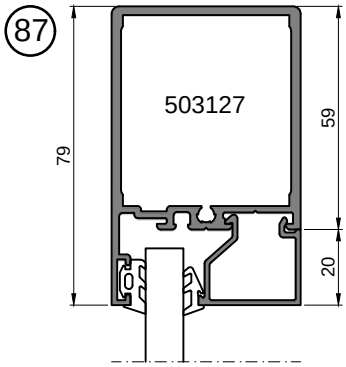
P50K KAIDE
P50K RAILING

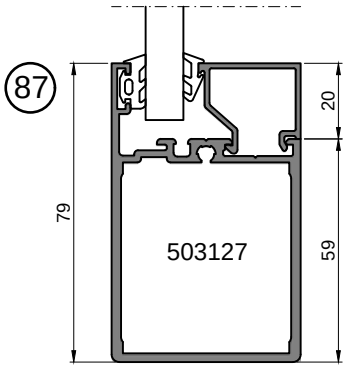


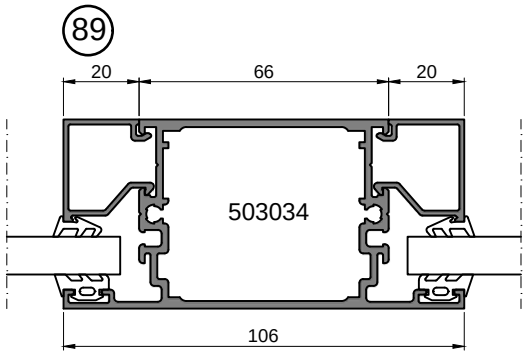


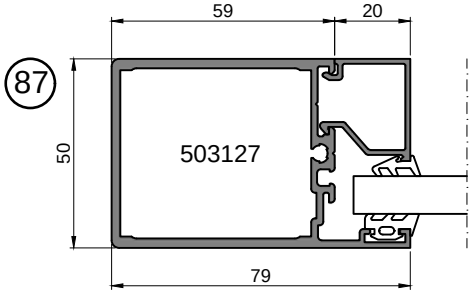
P50K KAIDE
P50K RAILING

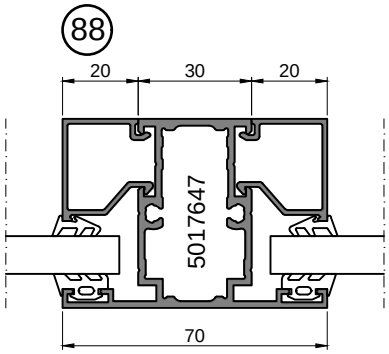




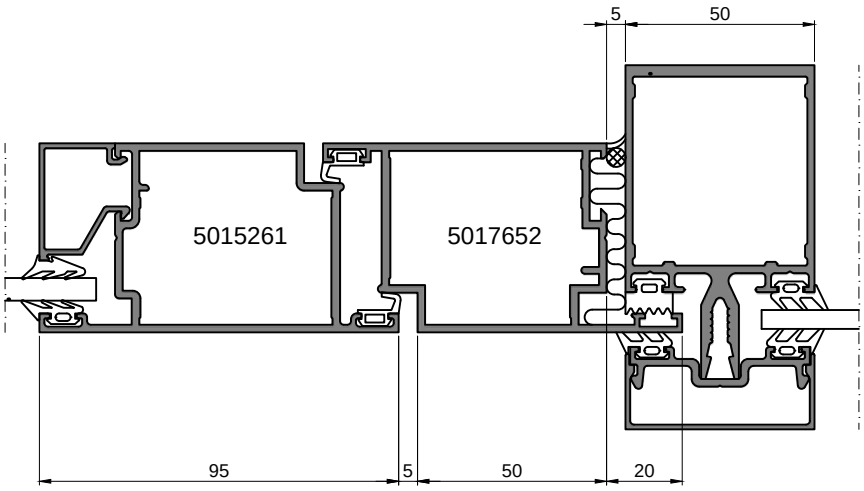




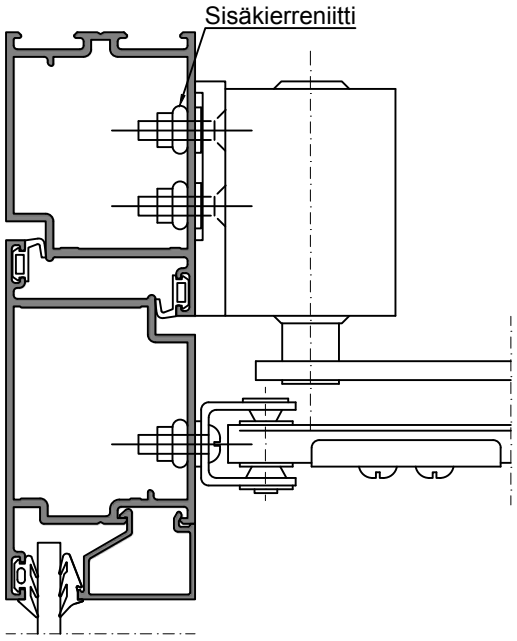




P50 OVEN LIITTÄMINEN P50L-SARJAAN
JOINING P50-DOOR TO P50L-SERIES



OVEN SULKIJAN KIINNITYS
DOOR CLOSER MOUNTING



LASITUSOHJE

Ennen lasittamista varmistetaan, että lasikyntteet, lasilistat ja lasit ovat puhtaat ja kuivat.

Lasitus tiivistysnauhalla tai tiivistysmassalla
Tiivistysnauhan nurkka- ja jatkoskohdat tiivistetään tiivistysmassalla. Tiivistysnauhan yhteydessä on aina käytettävä tiivistysmassaa.

Lasitus tiivistysmuotonauhalla
Tiivistysmuotonauhojen katkaisussa on huomioitava kutistumisvara, joka on on n. 5 mm metriä kohden. Tiivistysnauhan nurkka- ja jatkoskohdat liimataan ja tiivistetään tiivistysmassalla. Toimittamiemme tiivistysnauhojen materiaali on EPDM-kumia. Kyseiset tiivistysmuotonauhat kestävät erittäin hyvin lämpötilojen vaihtelua, lämpöä ja vanhenemista.
Tiivistysmuotonauhojen asennus suoritetaan seuraavasti:
Ulkopuolen lasitustiiviste PX1 tai PX2 sovitetaan profiili uraan.
Lasin ja lasituslistojen asennuksen jälkeen sovitetaan jälkiasennustiiviste PX4 tai PX5 paikoilleen. Jälkiasennustiivisteen asennusta voidaan helpottaa silikonisumutteella tai muulla vastaavalla liukastusaineella.

Kiilaus
Kiilauksen tehtävänä on tukea, keskittää ja kantaa lasi tai umpiolasi puitteessa tai karmissa tarkoitetulla tavalla ja varmistaa ikkunan tai oven pysyminen oikeassa muodossa.

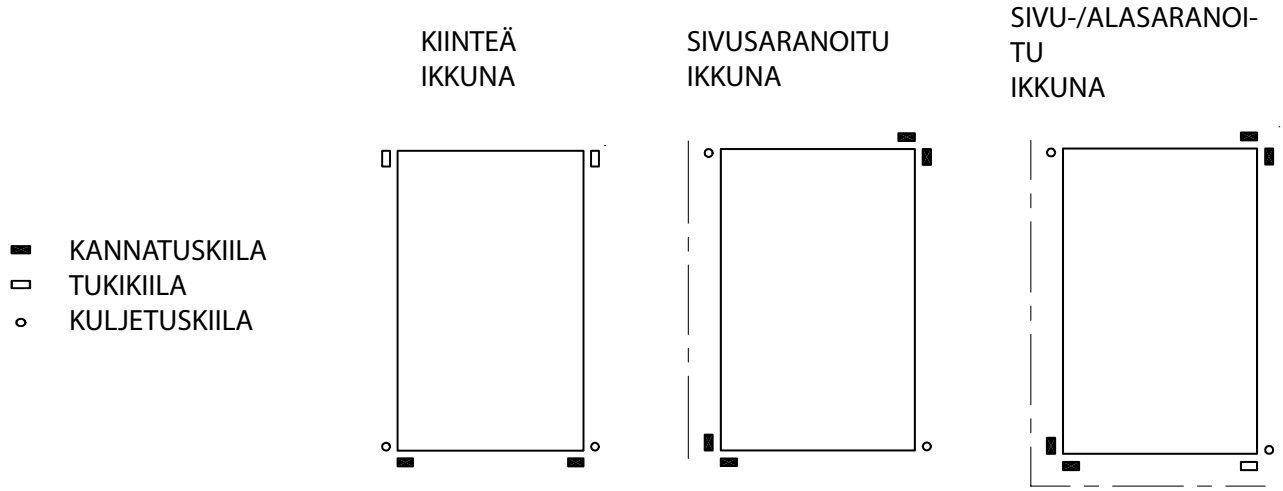
Kiilatyypit:
- kannatuskiilat, jotka siirtävät lasiruudun painon runkoon
- tukikiilat, jotka varmistavat lasiruudun paikallaan pysymisen
- kuljetuskiilat, jotka pitävät lasiruudun oikealla paikalla ikkunaelementissä kuljetuksen aikana.

Kannatuskiilat valmistetaan säätä ja lämpötilan vaihteluja kestävästä muovista, jonka kovuus on 70°-90° Shore A tai muusta vastaavasta materiaalista. Kannatuskiilojen pituus on 50-100 mm ja leveys valitaan siten, että kiilat kantavat ja tukevat umpiolasia koko sen paksuudelta. Kannatuskiilojen paksuus on vähintään 5 mm.

Tuki- ja kuljetuskiilat tulee olla paksuudeltaan joustavia ja ne eivät saa haitata kannatuskiilojen toimintaa. Tukikiilat estävät lasiruudun liikkumisen käytössä. Tuki- ja kuljetuskiilojen pituus on vähintään 100 mm ja leveys sama kuin kannatuskiiloilla.

Kiilojen asennus
Kannatus-, tuki- ja kuljetuskiilojen sijainti on esitetty alla olevissa kuvissa. Kiilat sijoitetaan 50-100 mm:n etäisyydelle umpiolasin nurkista. Tehdaslasituksessa kannatuskiilojen paikat merkitään selvästi karmiin.

KIILOJEN SIJOITUS



GLAZING INSTRUCTIONS

Before commencing glazing, it must be ensured that glass rebates, glazing beads and glass panes are clean and dry.

Glazing with sealing strip and sealing compound
Sealing strip joints are to be glued and sealed with sealing compound. Rebate sealing compound must always be used with sealing strip.

Glazing with profile sealing strip
An allowance for shrinkage (ca. 5 mm/m) must be made when cutting lengths of profile sealing strips.Joint are to be glued and sealed with sealing compound. The material of the sealing we provide is EPDM rubber. These profile strips are highly resistant to temperature changes, heat and ageing.
Installion of strips is as follows:
Exterior glazing strips PX1 or PX2 are fitted into the profile groove.
When the glass pane and glazing beads have been installed, retrofit strip PX 4 or PX5 is fitted.
A silicone spray or equivalent may be used to facilitate the installation of the retrofit strip.

Padding
Padding is intended to support, centre and bear the glass pane or sealed glazing unit in the casement or frame as designed, and to ensure the permanence of the shape of a window or door.

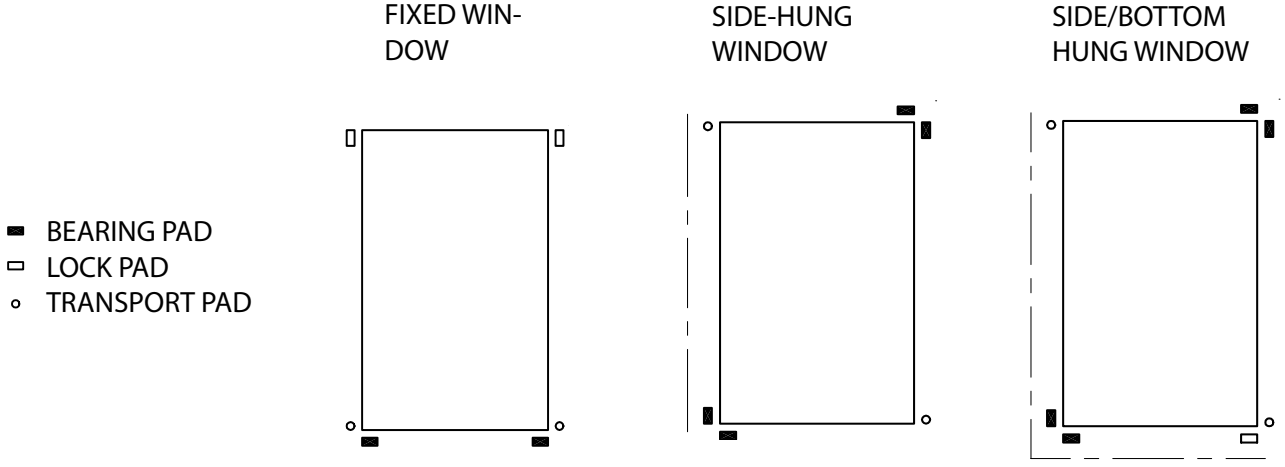
Pad types:
- bearing pads that transmit the weight on the pane to the frame
- lock pads that hold the pane in place
- transport pads that ensure that the glass pane remains on place in the window element during transport.

Bearing pads are made of plastic (70° to 90° Shore A hardness) or equivalent which is resistant to weather and changes in temperature. The pads are 50-100 mm length and of an appropriate width to support the sealed glazing unit across its entire thickness. Bearing pads are to be at least 5 mm thick.

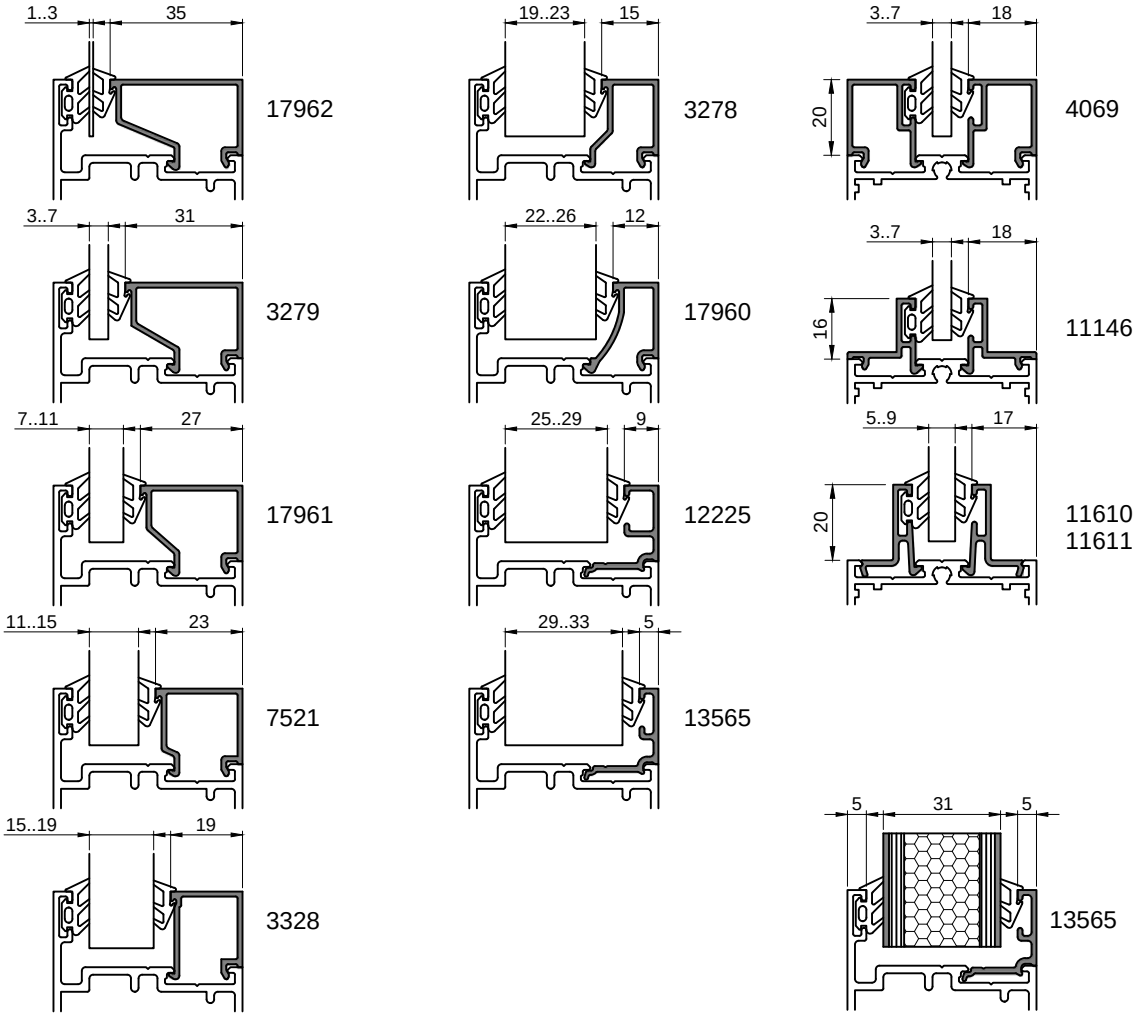
Lock and transport pads are to be of appropriate thickness and must not obstruct functioning of bearing pads. The lock pads prevent the glass pane from moving in use. Lock and transport pads are at least 100 mm long and as wide as bearing pads.

Installation of pads
Positioning of bearing, lock and transport pads is shown in illustration. The pads are placed at a distance of 50 to 100 mm from the corners of sealed glazing units. In factory-glazing the positions of bearing pads are marked clearly on the frame.

PAD POSITIONING

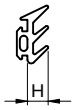


LASITUSLISTOJEN JA TIIVISTEIDEN VALINTA
SELECTING GLAZING BEADS AND SEALINGS

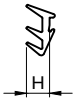


Lasin kokonaisvahvuus
Thickness of glass

Lasituslista Glazing bead	PX2 + PX5	PX2 + PX4	PX1 + PX5	PX1 + PX4
17961	-	1..2	1..2	3
3279	3..4	5..6	5..6	7
17961	7..8	9..10	9..10	11
7521	11..12	13..14	13..14	15
3328	15..16	17..18	17..18	19
3278	19..20	21..22	21..22	23
17960	22..23	24..25	24..25	26
12224	25..26	27..28	27..28	29
13565	29..30	31..32	31..32	33
4069	3..4	5..6	5..6	7
11146	3..4	5..6	5..6	7
11610	5..6	7..8	7..8	9
11611	5..6	7..8	7..8	9



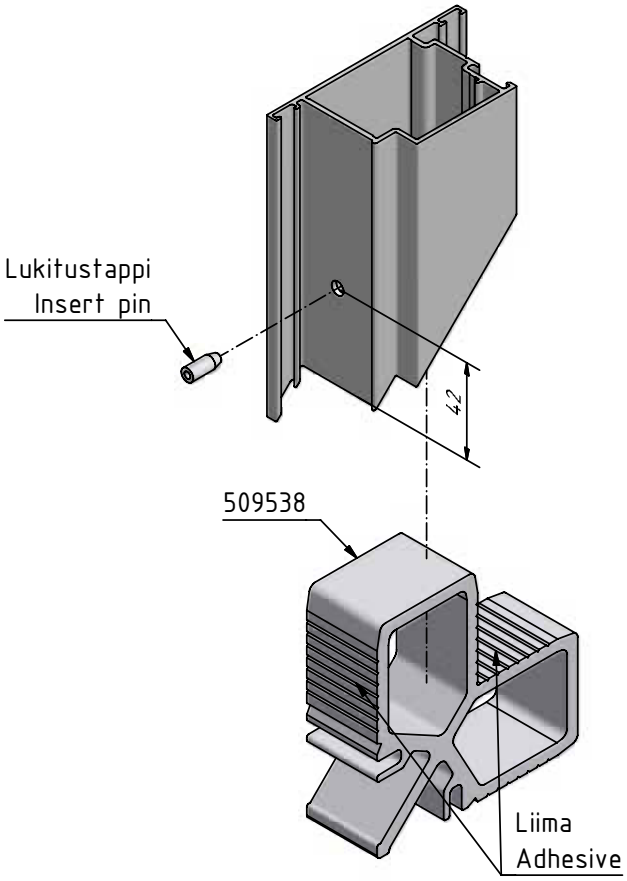
PX1	PX2
H=3..4	H=5..6



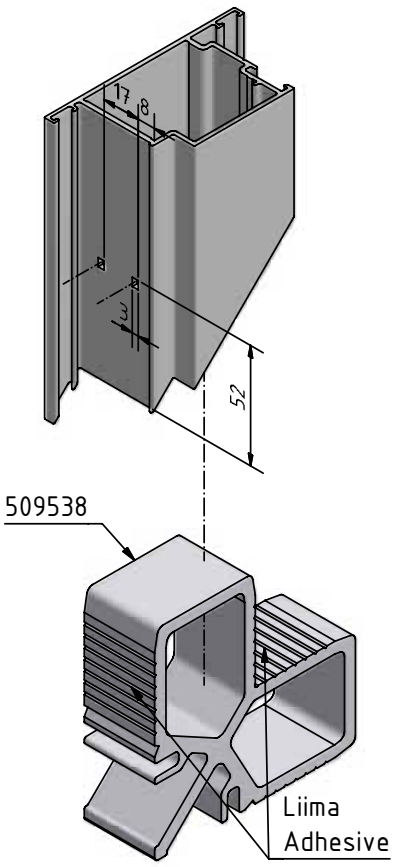
PX4	PX5
H=3	H=4

JIIRI- JA T-LIITOS ESIMERKKI
MITRE AND T-JOINT EXAMPLES

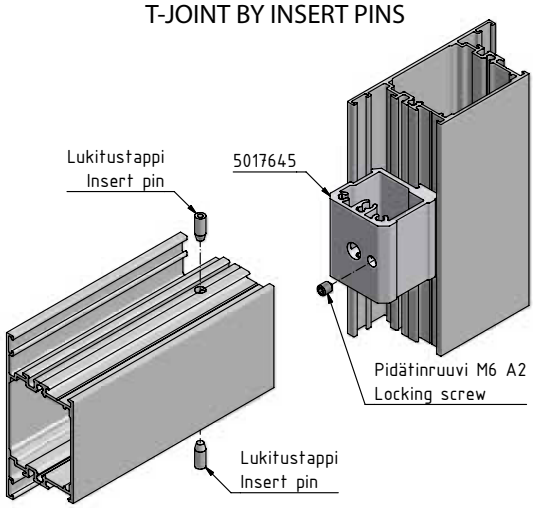
JIIRILIITOS LUKITUSTAPEIN
MITRE JOINT BY INSERT PINS



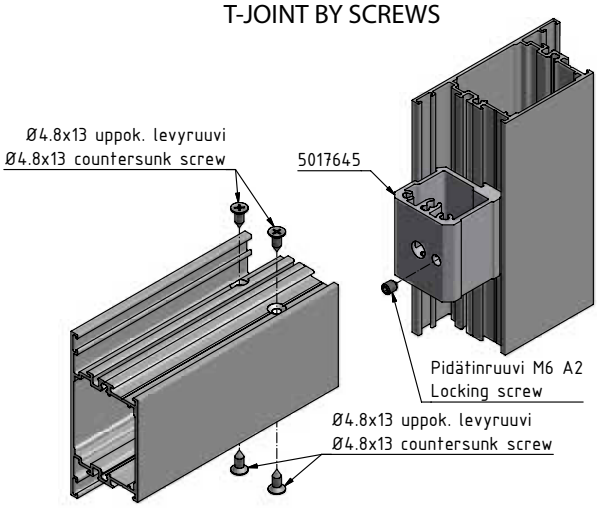
JIIRILIITOS KULMAPURISTIMELLA
MITRE JOINT BY PRESSING



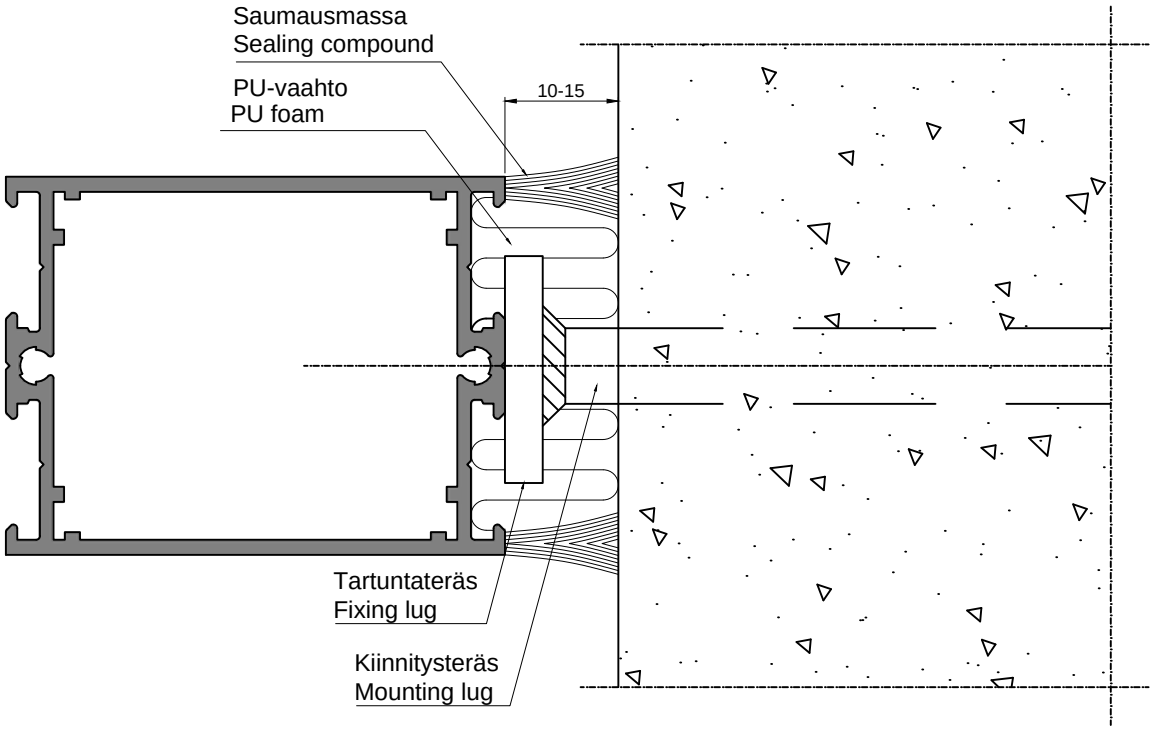
T-LIITOS LUKITUSTAPEIN
T-JOINT BY INSERT PINS

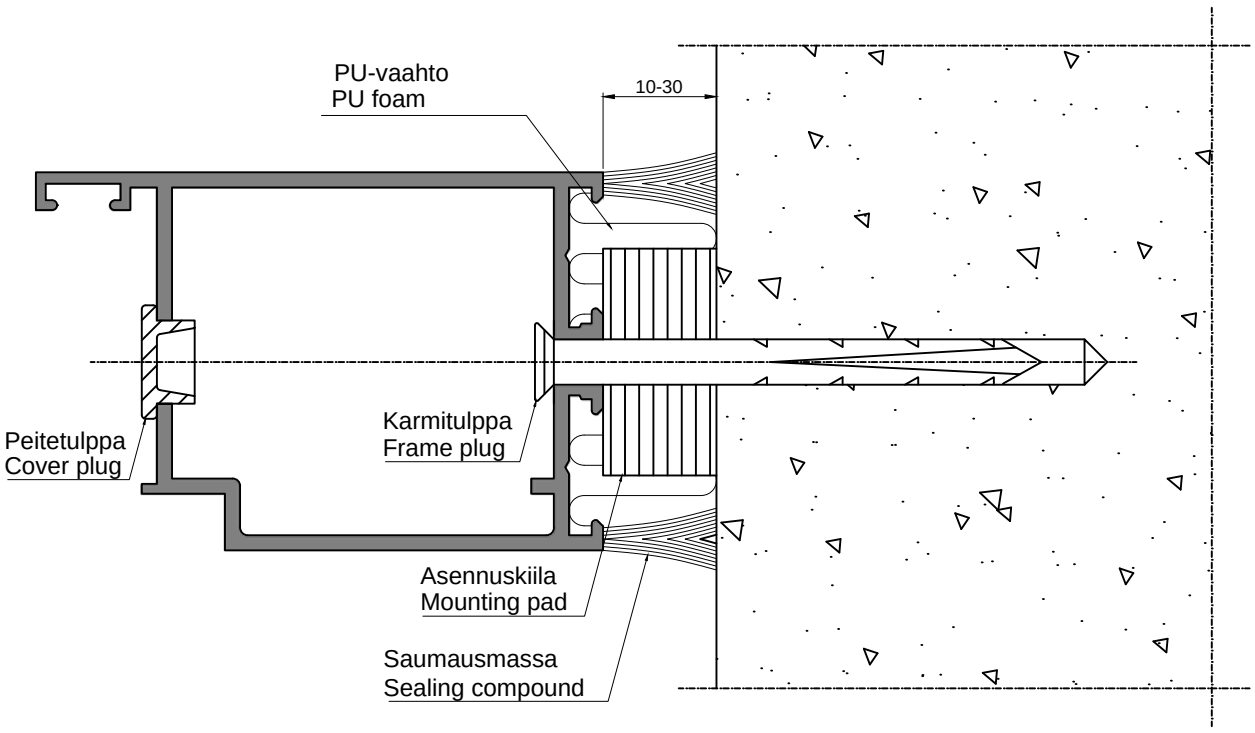


T-LIITOS RUUVEILLA
T-JOINT BY SCREWS

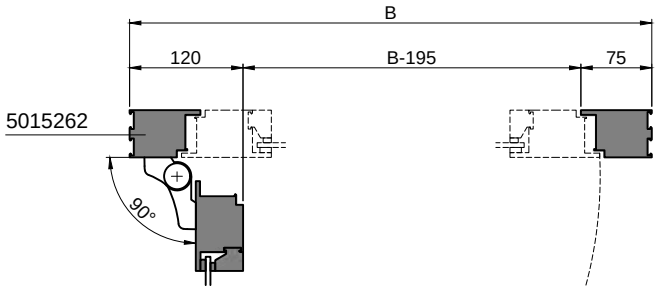


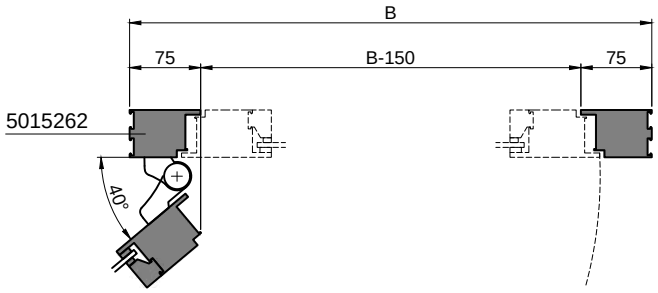
LIITTÄMINEN RAKENNUSRUNKOON, ESIMERKKEJÄ
MOUNTING TO BUILDING FRAME, EXAMPLES

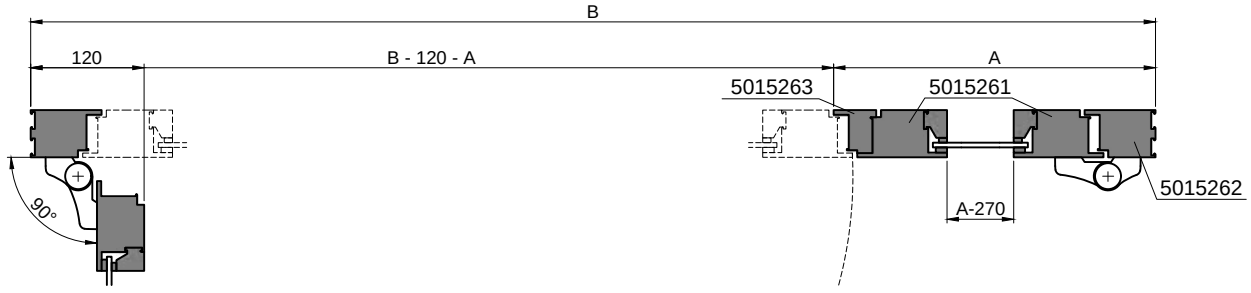




VAPAAT KULKUAUKOT
CLEAR DIMENSIONS







P50 OVIEN ÄÄNITEKNISET OMINAISUUDET
P50 DOORS ACOUSTIC PERFORMANCE

Ovilehtien määrä Number of door leaves	Ovityyppi Door type	Testattu lasitus | umpiosa Tested glazing | panel	R_w [dB]	$R_w + C$ [dB]	$R_w + C_{tr}$ [dB]
1	Täyslasiovi Fully glazed door	L-1	34	32	30
		L-2	33	33	32
		L-3	34	34	32
1	Lasiovi välivaa'alla Glass door with transom	L-1	34	33	30
		L-2	34	33	32
		L-3	34	34	33
1	Umpiovi välivaa'alla Panel door with transom	UO-1	34	34	32
		UO-2	37	35	31
		UO-3	32	31	29
1	Lasiovi umpiosalla Glass door with panel	L-1 | U-2	35	34	31
		L-1 | U-3	33	32	30
		L-3 | U-1	35	34	33
		L-3 | U-2	36	35	32
		L-3 | U-3	33	32	30
2	Täyslasiovi Fully glazed door	L-2	33	32	31
2	Lasiovi välivaa'alla Glass door with transom	L-2	33	32	31
2	Umpiovi välivaa'alla Panel door with transom	U-2	36	35	31
2	Lasiovi umpiosalla Glass door with panel	L-3 | U-2	36	35	32
		L-3 | U-3	32	32	30

Lasit/ Glazings:
L-1: 2k - 4 - 16 RST
L-2: 1k - lam 3+3,38
L-3: 1k - lam 4+4,38

Umpiosat/ Opaque panels:
U-1: 1,5 mm alumiinilevy - 2x 15 mm kipsilevy - 1,5 mm alumiinilevy
1,5 mm aluminium sheet - 2x 15 mm gypsum board - 1,5 mm aluminium sheet
U-2: 1,5 mm alumiinilevy- 4 mm vaneri - 20 mm kova mineraalivilla - 4 mm vaneri - 1,5 mm alumiinilevy
1,5 mm aluminium sheet - 4 mm plywood - 20 mm hard mineralwool - 4 mm plywood - 1,5 mm aluminium sheet
U-3: 1,5 mm alumiinilevy - 4 mm vaneri - 20 mm PUR-levy - 4 mm vaneri - 1,5 mm alumiinilevy
1,5 mm aluminium sheet - 4 mm plywood - 20 mm PUR-board - 4 mm plywood - 1,5 mm aluminium sheet

Testatut ovikoot ja sallitut ovien kokonaispinta-alat (A)
Tested door sizes and maximum total areas (A) of doors:
Yksilehtiset ovet/ Single leaf doors:: **990x 2090 mm** **$0\ m^2 < A \leq 3{,}1\ m^2$**
Pariovet/ Double leaf doors: **1520x 2090 mm** **$0\ m^2 < A \leq 4{,}8\ m^2$**

Termit: **R_w** Ilmaääneneristysluku (mitä korkempi luku sitä parempi ääneneristävyys)
R_w+C Lentoliikenteenmelu, nopeiden junien äänet, teollisuusmelu (korkea ja keskitaajuus)
R_w+C_{tr} Kaupunkiliikenteenmelu, hitaiden junien äänet, teollisuusmelu (matala ja keskitaajuus)
Terms: **R_w** Sound reduction index (the higher the R_w number, the better the sound insulation)
R_w+C Jet aircraft noise, sounds of fast trains, industrial noise (high and mid frequency)
R_w+C_{tr} City traffic noise, sounds of slow trains, industrial noise (low and mid frequency)

OMINAISUUDET/ LUOKITUS SFS-EN 14351-1 +A1 MUKAISESTI
PROPERTIES/ CLASSIFICATION ACCORDANCE TO EN 14351-1 +A1

Ominaisuus **Properties**	**P50 ovi** **P50 door**			**P50 pariovi** **P50 double leaf door**		
Tuulenpaineen kestävyys [1] **Resistance to wind load** [1] **(EN 12210)**	**C3** (1200 Pa, ≤1/300)			**C3** (1200 Pa, ≤1/300)		
Sateenpitävyys [2] **Watertightness** [2] **(EN 12208)**	**6A**			**5A**		
Äänitekniset ominaisuudet [2] [3] [4] **Acoustic performance** [2] [3] [4] **(EN ISO 717-1)**	R_w 37dB [4]	R_w+C 35dB [4]	R_w+C_{tr} 31dB [4]	R_w 36dB [4]	R_w+C 35dB [4]	R_w+C_{tr} 32dB [4]
Lämmönläpäisykerroin (U_D) [3] **Thermal transmittance** (U_D) [3] **(EN ISO 10077-2)**	**≥ 2,8 W/m²K**			**≥ 2,8 W/m²K**		
Ilmanpitävyys [2] **Air permeability** [2] **(EN 12207)**	**2**			**2**		

HUOM! Taulukon arvot pätevät yksilehtisille oville 990x 2090 mm ja parioville 1520x 2090 mm pl. lämmönläpäisykerroin, jossa arvot laskettu standardikokoisille oville (1230x 2180 mm ja 2000x 2180 mm)

[1] Elementin koko: yksilehtiset ≤ 2,1 m², pariovet ≤ 3,2 m²

[2] Elementin koko: yksilehtiset ≤ 3,1 m², pariovet ≤ 4,8 m²

[3] Projektikohtaiset arvot määritettävä erikseen

[4] Lasi/ umpiosa, kts. P50-tuotepassi

NOTE! Values in the table apply for single leaf door 990x 2090 mm and double leaf door 1520x 2090 mm excl. thermal transmittance which is calculated for standard size door (1230x 2180 mm and 2000x 2180 mm)

[1] Element size: single leaf door ≤ 2,1 m2, double leaf door ≤ 3,2 m2

[2] Element size: single leaf door ≤ 3,1 m2, double leaf door ≤ 4,8 m2

[3] Values according to project are declared separately

[4] Glass/ Infill panel, see P50-Product pass

TEKNISIÄ TIETOJA

01/2019

Profiilit

- alumiiniseos yleensä EN-AW 6063 T5
  $Rp_{p0,2}$ min = 130 N/mm²
  R_m min = 175 N/mm²
  E = 70000 N/mm²
- alumiinirakenteiden suunnittelussa on huomioitava lämpötilan muutoksista aiheutuvat siirtymät
- alumiinin lämpölaajenemiskerroin on $24x10^{-6}$/K
- profiilien muototoleranssit EN 755-9 tai EN 12020-2 mukaan
- seos soveltuu erinomaisesti anodisoitavaksi
- toimituspituus on normaalisti 6,6 m, muut mitat erikoistilauksesta
- lämpökatkon materiaali on polyamidi, joka kestää anodisoinnin ja maalauksen

Profiilien pintakäsittely

Anodisointi

Anodisointi on sähkökemiallinen menetelmä, jolla kasvatetaan alumiinin luonnollisen oksidikerroksen paksuutta. Anodisointi muodostaa kovan, mekaanista kulutusta kestävän pinnan, jolla on erinomainen säänkesto.

Jauhemaalaus

Jauhemaalauksessa profiilin pintaan ruiskutetaan pulveri, joka sulatetaan uunissa kestäväksi ja tasaiseksi pinnaksi. Ennen maalausta profiileille tehdään esikäsittely, jolla varmistetaan maalin pysyvyys. Normaalisti käytetään RAL-värikartan sävyjä, mutta muutkin sävyt ovat mahdollisia.

Tiivisteet

Materiaali: EPDM-kumi
Väri: musta

TECHNICAL INFORMATION

Profiles

- Aluminium alloy usually EN-AW 6063 T5
  $Rp_{p0,2}$ min = 130 N/mm²
  R_m min = 175 N/mm²
  E = 70000 N/mm²
- Thermal transitions caused by changes in temperature must be taken into account in the design
- Thermal expansion coefficient of aluminium is $24x10^{-6}$/K
- Shape tolerances of profiles according to EN 755-9 or EN 12020-2
- Alloy is well suited for anodizing
- Delivery length of profiles normally 6,6 m, other lengths available on request
- Material of thermal breaks is polyamide which endures anodizing and powder coating

Surface treatment

Anodizing

Anodizing is an electrochemical method for increasing the thickness of the natural oxide layer of aluminium. Anodizing forms a hard, mechanical wear-resistant surface with excellent weather resistance.

Powder Coating

In powder coating the powder is injected into the surface of the profiles, which then is melted in a furnace into a durable and smooth surface. Before painting, the profiles are pre-processed, in order to ensure the endurance of the coating. Normally profiles are painted with RAL color shades, but other colors are also possible.

Gaskets

Material: EPDM-rubber
Colour: black

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

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