



Lämpöeristetty ovi- ja ikkunasarja

**Highly insulated
doors and windows**

LK78X

**Valmistusohjeet
Manufacturing manual**

Tehokkaasti eristetty ovi- ja ikkunajärjestelmä
Highly insulated doors and windows**Käyttökohteita**

- Ulos- ja sisäänaukeavat käyntiovet
- Liukuovet
- Kiinteät ikkunat
- Sisään- ja ulosaukeavat ikkunat

Ominaisuuksia

- Lämpöeristetty alumiininen ovi- ja ikkunajärjestelmä
- Erinomainen lämmöneristävyys. Ikkunan ja oven U-arvo jopa alle 0.8 W/m²K
- Profiilien pintakäsittelynä on yleensä anodisointi tai jauhemaalalaus.
- Runkoprofiilien ulko- ja sisäpuoli voidaan tehdä erivärisiksi.
- Runkosyvyys 78 mm. Runkojen leveydet 30...150 mm
- Voidaan käyttää joko pinta- tai putkisaranoita
- Käytettävän eristyslasipaketin tai umpiosan vahvuus 23...60 mm.
- LK78X-järjestelmän ovet ja ikkunat voidaan liittää helposti P50L-julkisivujärjestelmään.
- Tarvittaessa voidaan tehdä myös uusia profiilimuotoja nopeasti ja edullisin kustannuksin.
- Vähäinen huollon tarve eliniän aikana. Täysin kierrätettävissä
- Toimii kaikissa sääolosuhteissa
- CE-merkittävissä SFS-EN 14351-1 +A1 mukaan
- Mahdollisuus murtosuojaluokkaan RC3 (SFS-EN 1627)

Applications

- Outward and inward opening doors
- Sliding doors
- Fixed windows
- Inward and outward opening windows

Features

- Highly insulated aluminium door and window system
- Window and door U-value even under 0.8 W/m²K
- Frame depths 78 mm. Frame widths 30...150 mm
- Thickness of IGU or panels 23...60 mm
- Doors with surface mounted or butt hinges
- Powder coated or anodized surface treatment.
- Different finishes of inside and outside possible.
- New profile shapes can be produced quickly when necessary with low costs
- Minimal care and maintenance required. Completely recyclable.
- High resistance to any weather conditions
- CE- marking according to EN 14351-1 +A1
- Burglar resistance class up to RC3 according to EN 1627

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.

SISÄLLYSLUETTELO CONTENTS

Sisältö		Sivu
Yleistä		1
Sisällys		1.1
Profiilit		2
Oviprofiilit		2.1
	Sivu 1	2.1.1
	Sivu 2	2.1.2
Runkoprofiilit		2.2
	Sivu 1	2.2.1
	Sivu 2	2.2.2
	Sivu 3	2.2.3
Ikkunaprofiilit		2.3
	Sivu 1	2.3.1
Lasituslistat ja tarvikkeprofiilit		2.4
	Sivu 1	2.4.1
Tarvikkeet		3
Tiivisteet		3.1
Liitoscappaleet	Luettelo	3.2
	Sivu 1	3.2.1
	Sivu 2	3.2.2
Ovihelat		3.3
	Ovisaranat 1	3.3.1
	Ovisaranat 2	3.3.2
Ikkunahelat		3.4
	Helasarjat	3.4.1
	Sivu 1	3.4.1.1
	Sivu 2	3.4.1.2
	Kulmahelasarjat	3.4.2
	Painikkeet ja saranat	3.4.3
	Muut osat	3.4.4
	Avautumisen rajoitin	3.4.5
	Avautumisen rajoitin	3.4.6
Muut tarvikkeet		3.5
Eristesoirot		3.6
Ovidetaljit		4
Ulosaukeava ovi		4.1
	1- , 2-lehtinen ovi. Puite 781532	4.1.1
	1- , 2-lehtinen ovi. Puite 781632	4.1.2
	Ovi yläpielellä	4.1.3
	Ovi sivupielellä	4.1.4
	Ovi ylä- ja sivupielellä	4.1.5
	Ovi P50L julkisivussa. Karmi 781530	4.1.6
	Ovi P50L julkisivussa. Karmi 781231	4.1.7

Sisäänaukeava ovi	4.2
1- , 2-lehtinen ovi. Puite 781530	4.2.1
1- , 2-lehtinen ovi. Puite 781630	4.2.2
Ovilehti vaakajaot	4.3.1
Ovilehti alareuna	4.3.2
Liukuovi	4.4
Sivu 1	4.4.1
Sivu 2	4.4.2
Ikkunadetaljit	5
Kiinteä ikkuna	5.1
Aukossa	5.1.1
Sisään aukeava ikkuna	5.2
Puite 781328	5.2.1
Puite 781329	5.2.2
Ikkunanauha	5.2.3
P50L julkisivussa	5.2.4
Ulosaukeava ikkuna	5.3
Puite 781351	5.3.1
Puite 781352	5.3.2
Ulosaukeava ikkuna	5.3.3
Ikkunanauha	5.3.4
P50L julkisivussa	5.3.5
Katkaisumitat ja tarvikkeet	6
Ulosaukeava ovi	6.1
1-lehtinen	6.1.1
Luettelo	6.1.1.1
Detaljit	6.1.1.2
Pariovi	6.1.2
Luettelo	6.1.2.1
Detaljit	6.1.2.2
Sisään aukeava ovi	6.2
1-lehtinen	6.2.1
Luettelo	6.2.1.1
Detaljit	6.2.1.2
Koneistukset ja kokoonpano	7
Liitosniittien paikat	7.1
T-liitokset	7.1.1
Sivu 1	7.1.1.1
Sivu 2	7.1.1.2
Jiiriliitokset	7.2.1
Ovilehti	7.2.1.1
Ovikarmi	7.2.1.2
Runkoprofiilit	7.2.1.3
Ikkunan apukarmit 781152, 781323	7.2.1.4

	Ikkunan puitteet 781328, 781329	7.2.1.5
	Ikkunan puitteet 781351, 781352	7.2.1.6
Kiinnitysruuvien paikat		7.3
	Kynnys	7.3.1
Oviheloitukset		7.4
	Saranat	7.4.1
	HAHN M701/ M751	7.4.1.1
	HAHN M711/ M761, sormisuoja	7.4.1.2
	HAHN R751	7.4.1.3
	GIESSE DOMINA HP 62,5	7.4.1.4
	Lukot	7.4.2
	ABLOY LC300-LC305	7.4.2.1
	ABLOY EL480	7.4.2.2
	ABLOY EL495	7.4.2.3
	ABLOY EL655	7.4.2.4
	Vastaraudat ja aluslevyt	7.4.3
	Aluslevy Purso 78/21	7.4.3.1
	Pikasalvat	7.4.5
	ROCA 200	7.4.5.1
	ROCA 200 vastalevyt ROCA	7.4.5.2
	ROCA 200 vastalevyt Purso 78H/30	7.4.5.3
	Ylivientisuojat	7.4.6
	ABLOY EA280/ EA281	7.4.6.1
Ikkunaheloitukset		7.5
	SIPA painike	7.5.1
	Vakiopainike + SILU lukkolaite	7.5.2
	FUPA painike + MILU lukkolaite	7.5.3
	Liukukiskojen urien avaus	7.5.4
	Lukkolaite ALU FBS-G, koneistus	7.5.5
	Lukkolaite 04093, koneistus	7.5.6
Tuuletusreiät		7.7
	Sisään avautuvan ikkunan tuuletus	7.7.1
	Ikkunan puitteen 781328, 329 tuuletus	7.7.2
	Ikkunakarmin tuuletus	7.7.3
	Ikkunakarmin 781321 tuuletus	7.7.4
	Ulosaukenevan ikkunan tuuletus	7.8.1
	Ulosavautuvan ikkunan puitteen 781351, 352 tuuletus	7.8.2
	Ulosavautuvan ikkunakarmin tuuletus	7.8.3
	Ikkunakarmin 781355 tuuletus	7.8.4
	Kiinteän ikkunan lasitilan tuuletus	7.9.1
	Ovilehden tuuletus	7.10.1-7.10.2
		8
Liitosesimerkit		8.1
Jiiriliitokset		8.2
	Jiiriliitos ovilehti	8.2.2

	Jiiriliitos ovilehti 781530/532, 781630/632	8.2.3
	Jiiriliitos ikkunapuite 781328	8.2.4
	Jiiriliitos Ikkunan karmi 781206	8.2.5
T-liitokset		8.3
	Profiilien T-liitos	8.3.1
Kynnysliitokset		8.4
	781531 + 780134 (porausjigi/ koneistus)	8.4.1
Tiivisteiden asennus		8.6
	Ikkunan päätiiviste PT781	8.6.1-8.6.2
	Oven huullostiiviste DX781	8.6.3
	7815763 ja harjatiiviste HT1	8.6.4
	7818538 ja harjatiiviste HT1	8.6.5
	7818538 ja harjatiiviste HT1 vasikkaoveen	8.6.6
Oviheloitukset		8.7
	Lukkojen asennus	8.7.1
	Vastaraudan asennus	8.7.2
Ikkunaheloitus		9
Sisään aukeava ikkuna		9.1
	Sivusaranoitu	9.1.1
	SIPA -painike, b< 1200, h< 1200	9.1.1.1
	SIPA -painike, b< 1200, h> 1200	9.1.1.2
	SIPA -painike, b> 1200, h< 1200	9.1.1.3
	SIPA -painike, b> 1200, h> 1200	9.1.1.4
	Vakiopainike, b< 1200, h< 1200	9.1.1.5
	Vakiopainike, b< 1200, h> 1200	9.1.1.6
	Sivu/ alasaranoitu	9.1.2
	SIPA -painike, b< 1200, h< 1200	9.1.2.1
	SIPA -painike, b< 1200, h> 1200	9.1.2.2
	Alasaranoitu	9.1.3
	SIPA -painike, b< 1200, h< 1200	9.1.3.1
	SIPA -painike, b> 1200, h< 1200	9.1.3.2
	Vakiopainike, b< 1200, h< 1200	9.1.3.5
	Vakiopainike, b> 1200, h< 1200	9.1.3.6
	Yläsaranoitu	9.1.4
	SIPA -painike, b< 1200, h< 1200	9.1.4.1
	SIPA -painike, b> 1200, h< 1200	9.1.4.2
	Vakiopainike, b< 1200, h< 1200	9.1.4.5
	Vakiopainike, b> 1200, h< 1200	9.1.4.6

Ulosaukeava ikkuna	9.2
Sivusaranoitu	9.2.1
FUPA -painike, b< 1200, h< 1200	9.2.1.1
FUPA -painike, b> 1200, h< 1200	9.2.1.2
Alasaranoitu	9.2.2
FUPA -painike, b< 1200, h< 1200	9.2.2.1
FUPA -painike, b> 1200, h< 1200	9.2.2.2
Yläsaranoitu	9.2.3
FUPA -painike, b< 1200, h< 1200	9.2.3.1
FUPA -painike, b> 1200, h< 1200	9.2.3.2
Lasitus	10
Yleistä	10.1
Lasituslistojen ja tiivisteiden valinta	10.2
Lasien asennus	10.3
Ulkopuolen lasitustiiviste	10.3.1
Kyntetilan tiiviste ja lasikiilat	10.3.2
Lasitus ja sisäpuolen lasitustiiviste	10.3.3-10.3.5
Liittymät	11
Liittyminen rakennusrunkoon	11.1
Liittyminen rakennusrunkoon	11.1.1
Liittyminen rakennusrunkoon	11.1.2
Kiinnityskohdat	11.2
Työvälineet	12

Contents		PAGE
General		1
Contents		1.1
Profiles		2
Door profiles		2.1
	Page 1	2.1.1
	Page 2	2.1.2
Frame profiles		2.2
	Page 1	2.2.1
	Page 2	2.2.2
Window profile		2.3
	Page 1	2.3.1
Glazing beads and accessories		2.4
	Page 1	2.4.1
Accessories		3
Gaskets		3.1
Joining pieces Catalog		3.2
	Page 1	3.2.1
	Page 2	3.2.2
Door hardware		3.3
	Hinges 1	3.3.1
	Hinges 2	3.3.2
Window hardware		3.4
	Hardware	3.4.1
	Page 1	3.4.1.1
	Page 2	3.4.1.2
	Corner drives	3.4.2
	Handles and hinges	3.4.3
	Other accessories	3.4.4
	Limite Stop Arm	3.4.5
	Limite Stop Arm	3.4.6
Other accessories		3.5
Insulation strips		3.6
Door details		4
Outward opening door		4.1
	1- and 2-leaf door. Sash 781532	4.1.1
	1- and 2-leaf door. Sash 781632	4.1.2
	Door with upper post	4.1.3
	Door with side post	4.1.4
	Door with upper- and side post	4.1.5
	Door in P50L facade. Frame 781530	4.1.6
	Door in P50L facade. Frame 781231	4.1.7

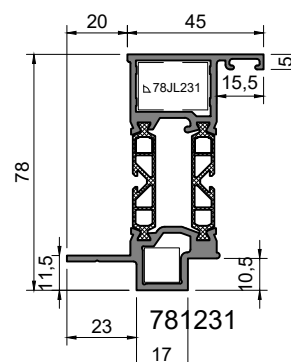
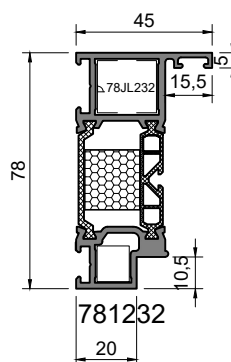
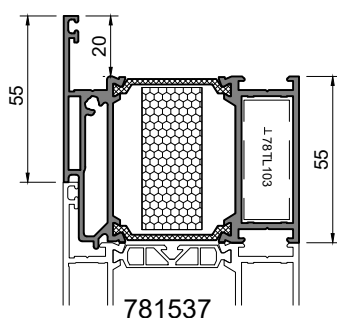
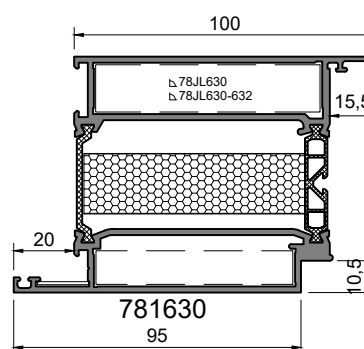
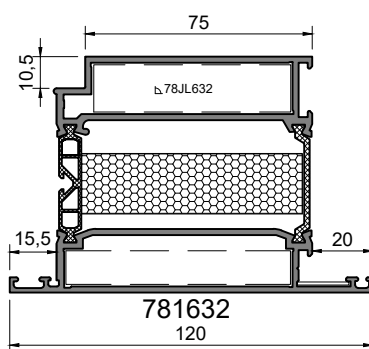
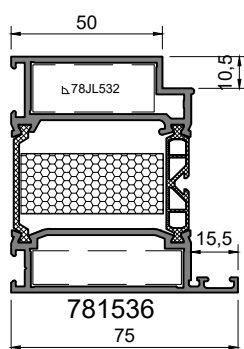
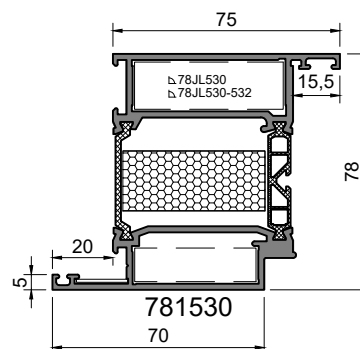
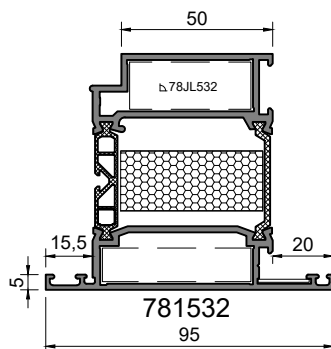
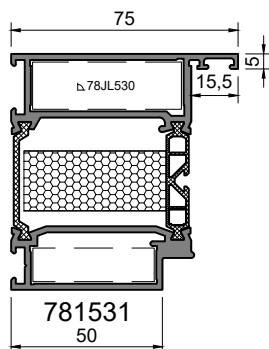
Inward opening door	4.2
1- and 2-leaf door. Sash 781530	4.2.1
1- and 2-leaf door. Sash 781630	4.2.2
	4.3
Horizontal frame	4.3.1
Bottom of door leaf	4.3.2
Sliding Door	4.4
Page 1	4.4.1
Page 2	4.4.2
Window details	5
Fixed window	5.1
In opening	5.1.1
Inward opening window	5.2
Sash 781328	5.2.1
Sash 781329	5.2.2
Ribbon window	5.2.3
In P50L facade	5.2.4
Outward opening window	5.3
Sash 781351	5.3.1
Sash 781352	5.3.2
Outward opening window	5.3.3
Ribbon window	5.3.4
In P50L facade	5.3.5
Cutting dimensions and accessories	6
Outward opening door	6.1
1-leaf door	6.1.1
Catalog	6.1.1.1
Details	6.1.1.2
Double door	6.1.2
Catalog	6.1.2.1
Details	6.1.2.2
Inward opening Door	6.2
1-leaf door	6.2.1
Catalog	6.2.1.1
Details	6.2.1.2
Machinings	7
Location of the joining rivets	7.1
T-joints	7.1.1
Page 1	7.1.1.1
Page 2	7.1.1.2
Mitre joints	7.2.1
Door leaf	7.2.1.1
Door frame	7.2.1.2
Frame profiles	7.2.1.3
Window profiles 781152, 781323	7.2.1.4

	Window sash 781328, 781329	7.2.1.5
	Window sash 781351, 781352	7.2.1.6
Location of the fastening screws		7.3
Threshold		7.3.1
Door hardware		7.4
Hinges		7.4.1
	HAHN M701/ M751	7.4.1.1
	HAHN M711/ M761, finger-protection	7.4.1.2
	HAHN R751	7.4.1.3
	GIESSE DOMINA HP 62,5	7.4.1.4
Locks		7.4.2
	ABLOY LC300-LC305	7.4.2.1
	ABLOY EL480	7.4.2.2
	ABLOY EL495	7.4.2.3
	ABLOY EL655	7.4.2.4
Striking plates		7.4.3
	Bottom plate Purso 78/21	7.4.3.1
Quick bolt		7.4.5
	ROCA 200	7.4.5.1
	ROCA 200 plate ROCA	7.4.5.2
	ROCA 200 plate Purso 78H/30	7.4.5.3
Lead Cover		7.4.6
	ABLOY EA280/ EA281	7.4.6.1
Window hardware		7.5
	SIPA handle	7.5.1
	Standard handle + SILU locking device	7.5.2
	FUPA handle + MILU locking device	7.5.3
	Opening the sliding rail grooves	7.5.4
Ventilation holes		7.7
	Inside opening window	7.7.1
	Window sash 781328, 329 ventilation	7.7.2
	Window frame ventilation	7.7.3
	Window frame 781321 ventilation	7.7.4
	Outward opening window ventilation	7.8.1
	Outward opening window sash 781351, 352 ventilation	7.8.2
	Outward opening window frame ventilation	7.8.3
	Window frame 781355 ventilation	7.8.4
	Fixed window ventilation	7.9.1
	Door leaf ventilation	7.10.1-7.10.2
Connecting examples		8
Mitre Joints		8.1
		8.2
	Mitre joint, door leaf	8.2.2

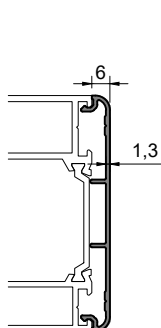
	Mitre joint, door leaf 781530/532, 781630/632	8.2.3
	Mitre joint, window sash 781328	8.2.4
	Mitre joint, window frame 781206	8.2.5
T-joints		8.3
	T-joint of the profiles	8.3.1
Threshold connections		8.4
	781531 + 780134 (drilling jig/ machining)	8.4.1
Installation of gaskets		8.6
	Window main gasket PT781	8.6.1
	Door lip gasket DX781	8.6.2
	7815763 and brush gasket HT1	8.6.3
	7818538 and brush gasket HT1	8.6.4
	7818538 and brush gasket HT1	8.6.5
Door hardware		8.7
	Lock assembly	8.7.1
	Striking plate assembly	8.7.2
Window hardware		9
Inward opening window		9.1
	Side hung	9.1.1
	SIPA handle, b< 1200, h< 1200	9.1.1.1
	SIPA handle, b< 1200, h> 1200	9.1.1.2
	SIPA handle, b> 1200, h< 1200	9.1.1.3
	SIPA handle, b> 1200, h> 1200	9.1.1.4
	Standard handle, b< 1200, h< 1200	9.1.1.5
	Standard handle, b< 1200, h> 1200	9.1.1.6
	Side/ bottom hung	9.1.2
	SIPA handle, b< 1200, h< 1200	9.1.2.1
	SIPA handle, b< 1200, h> 1200	9.1.2.2
	Top hung	9.1.3
	SIPA handle, b< 1200, h< 1200	9.1.3.1
	SIPA handle, b> 1200, h< 1200	9.1.3.2
	Standard handle, b< 1200, h< 1200	9.1.3.5
	Standard handle, b> 1200, h< 1200	9.1.3.6
	Top hung	9.1.4
	SIPA handle, b< 1200, h< 1200	9.1.4.1
	SIPA handle, b> 1200, h< 1200	9.1.4.2
	Standard handle, b< 1200, h< 1200	9.1.4.5
	Standard handle, b> 1200, h< 1200	9.1.4.6

Outward opening window	9.2
Side hung	9.2.1
FUPA handle, b < 1200, h < 1200	9.2.1.1
FFUPA handle, b > 1200, h < 1200	9.2.1.2
Bottom hung	9.2.2
FUPA handle, b < 1200, h < 1200	9.2.2.1
FUPA handle, b > 1200, h < 1200	9.2.2.2
Top hung	9.2.3
FUPA handle, b < 1200, h < 1200	9.2.3.1
FUPA handle, b > 1200, h < 1200	9.2.3.2
Glazing	10
General	10.1
Selecting glazing beads and gaskets	10.2
Glass installation	10.3
Outer glazing gasket	10.3.1
Rebate gasket and bearing pads	10.3.2
Glazing and inner glazing gasket	10.3.3
Mountings	11
Mounting to building frame	11.1
Page 1	11.1.1
Page 2	11.1.2
Fixing points	11.2
Tools	12

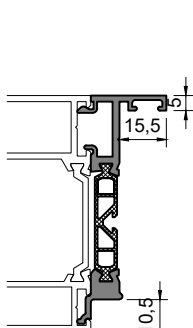
OVIPROFIILIT
LK78X DOOR PROFILES



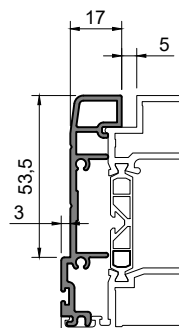
LK78X OVIPROFIILIT
LK78X DOOR PROFILES



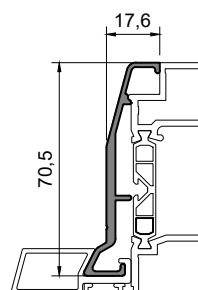
7818884



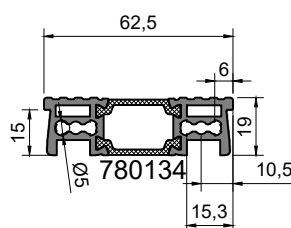
781542



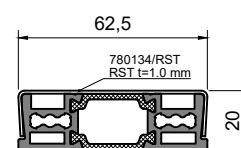
7817849



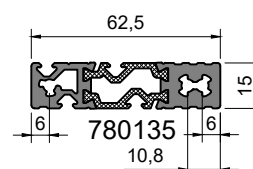
7817850



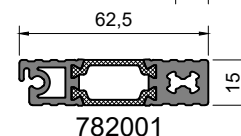
780134



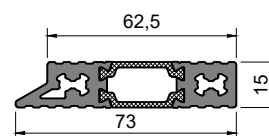
780134



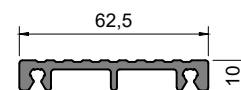
780135



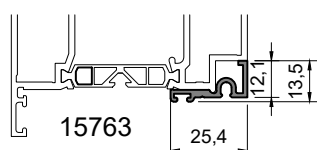
782001



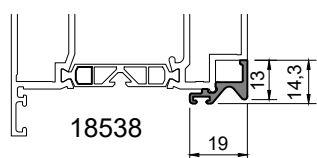
782002



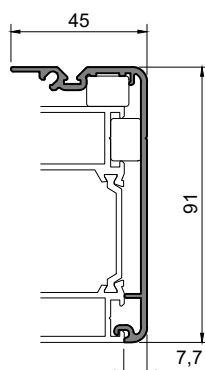
7822878



15763

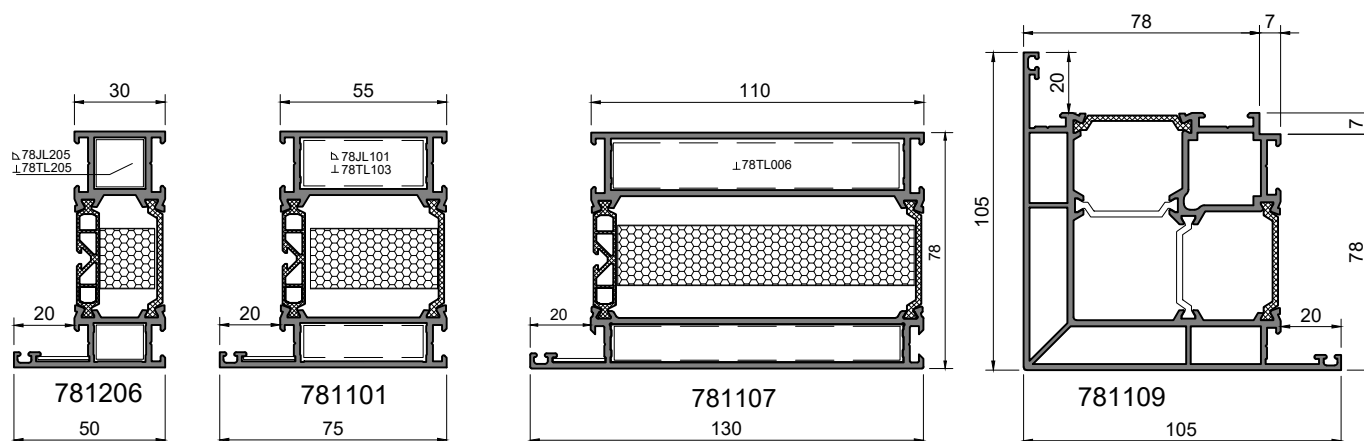
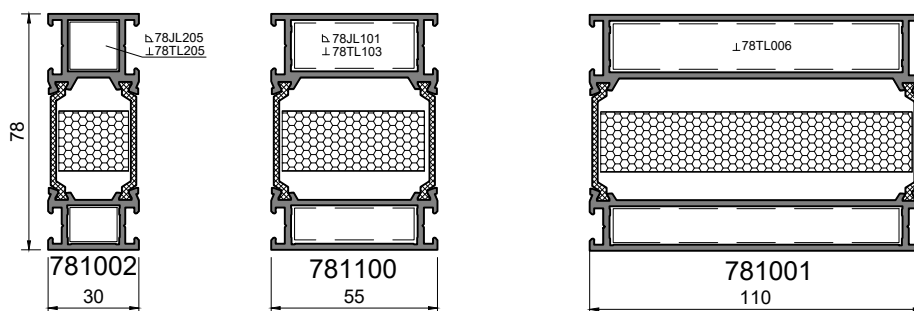
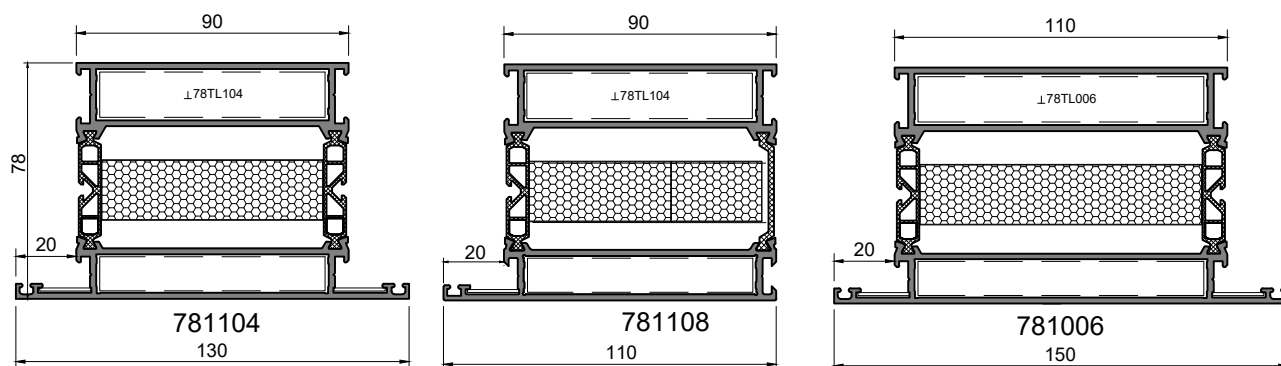
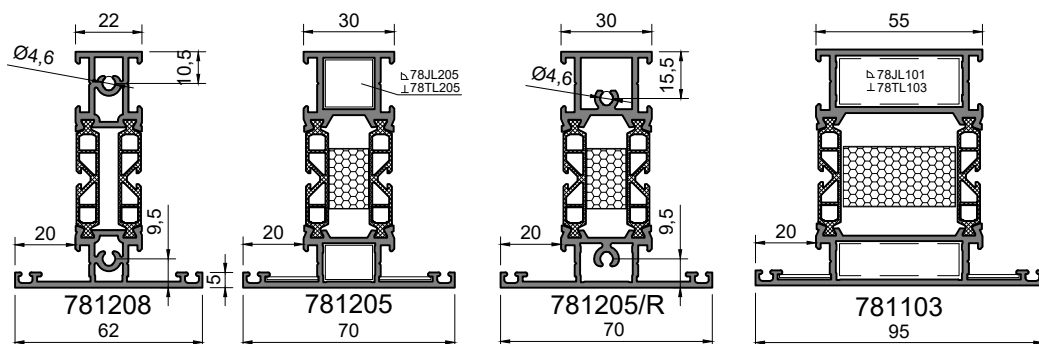


18538

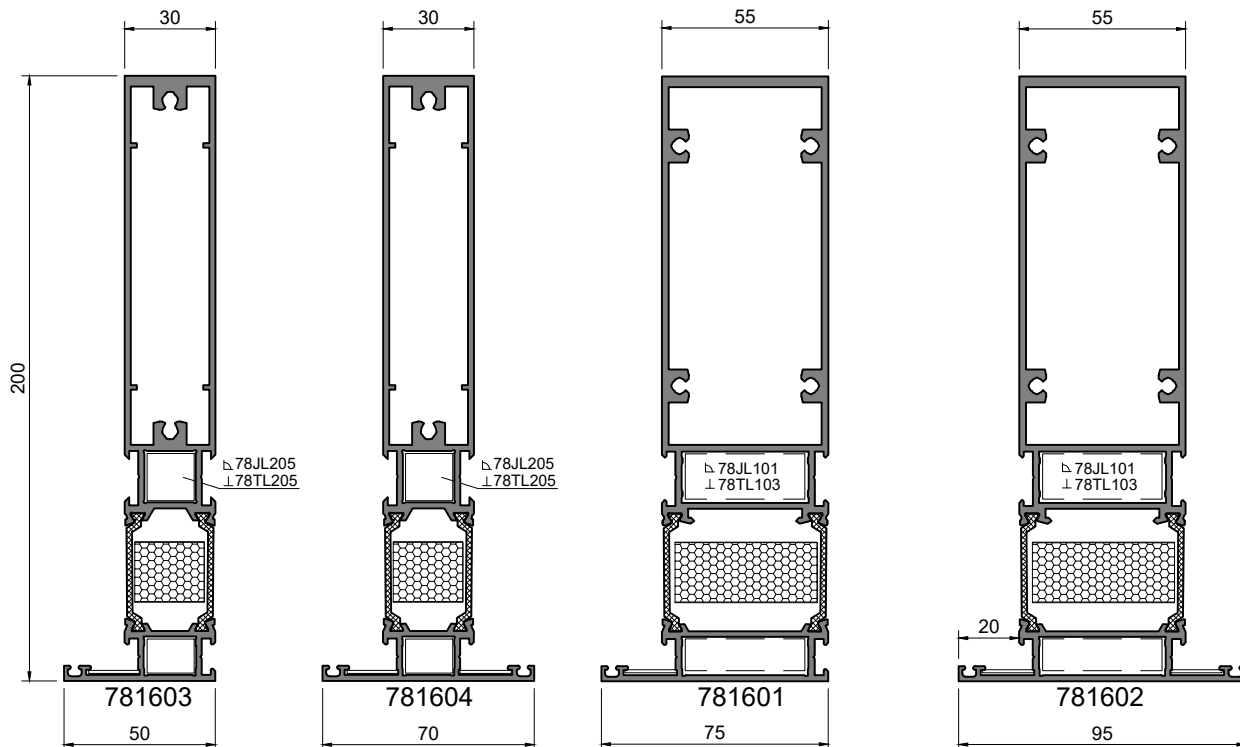
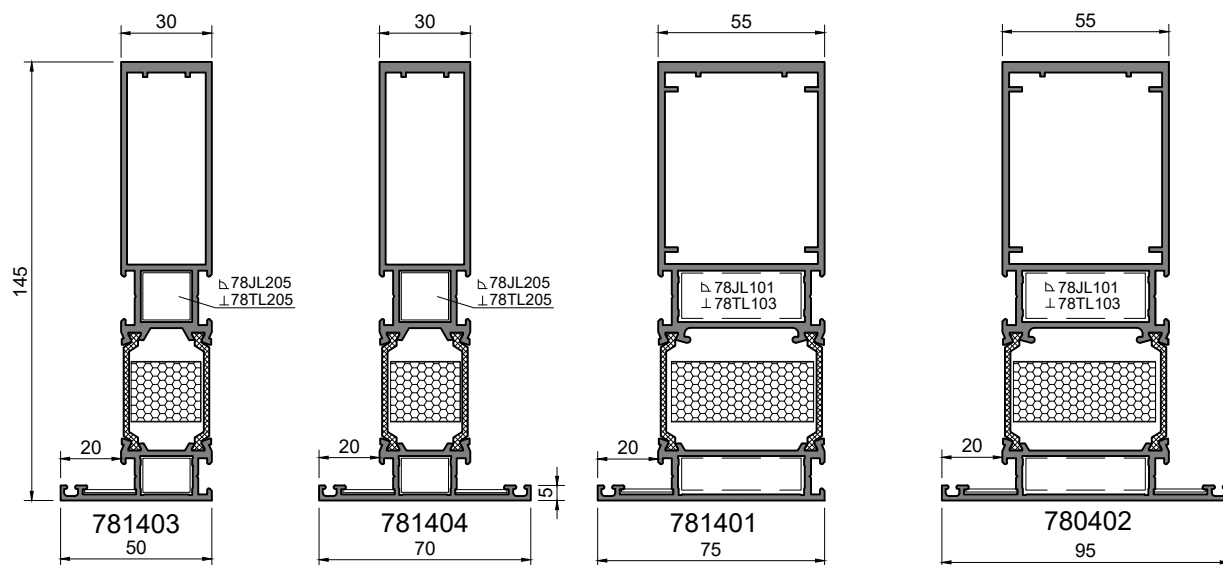


7817860

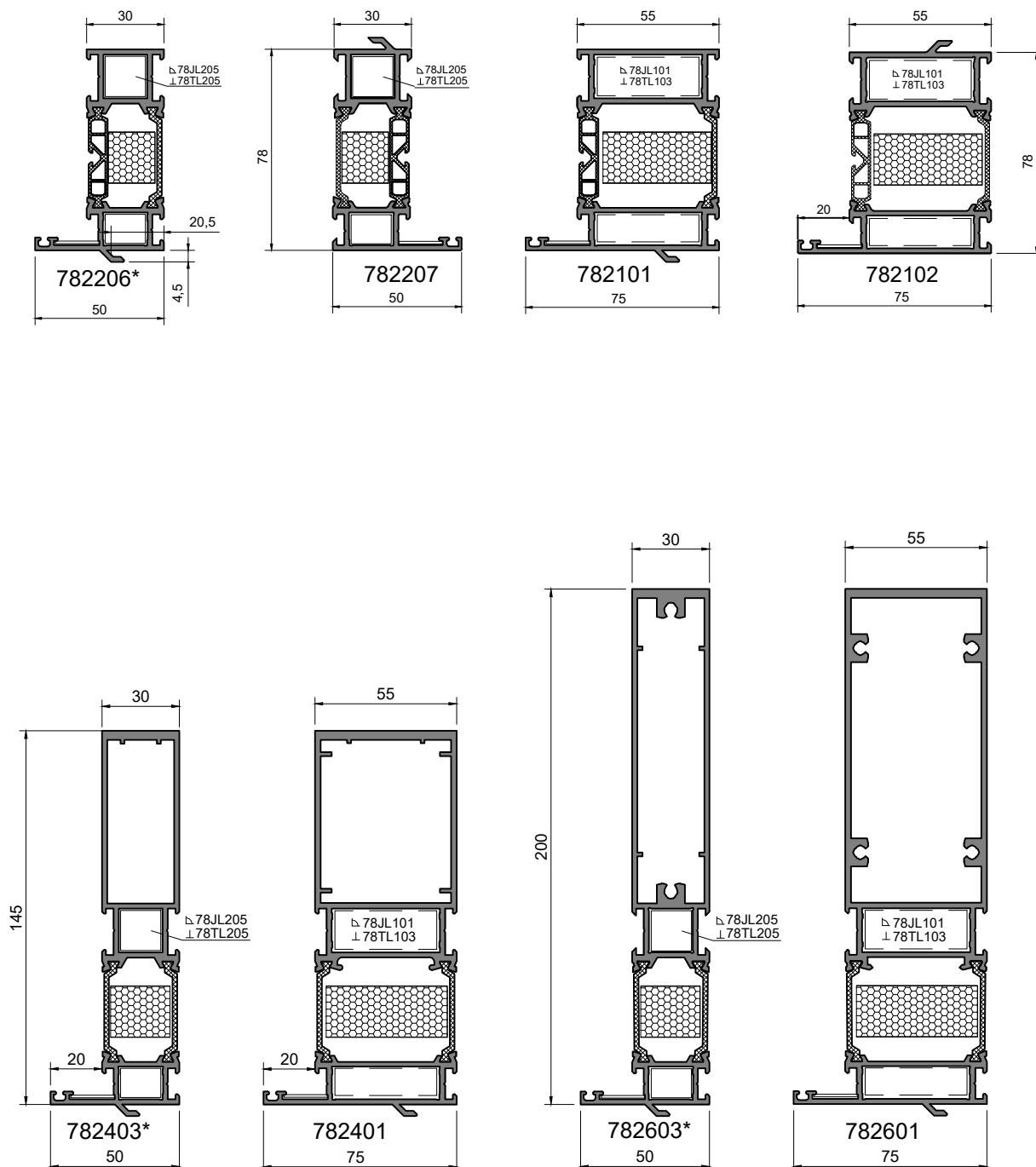
LK78X RUNKOPROFIILIT
LK78X FRAME PROFILES



LK78X RUNKOPROFIILIT
LK78X FRAME PROFILES

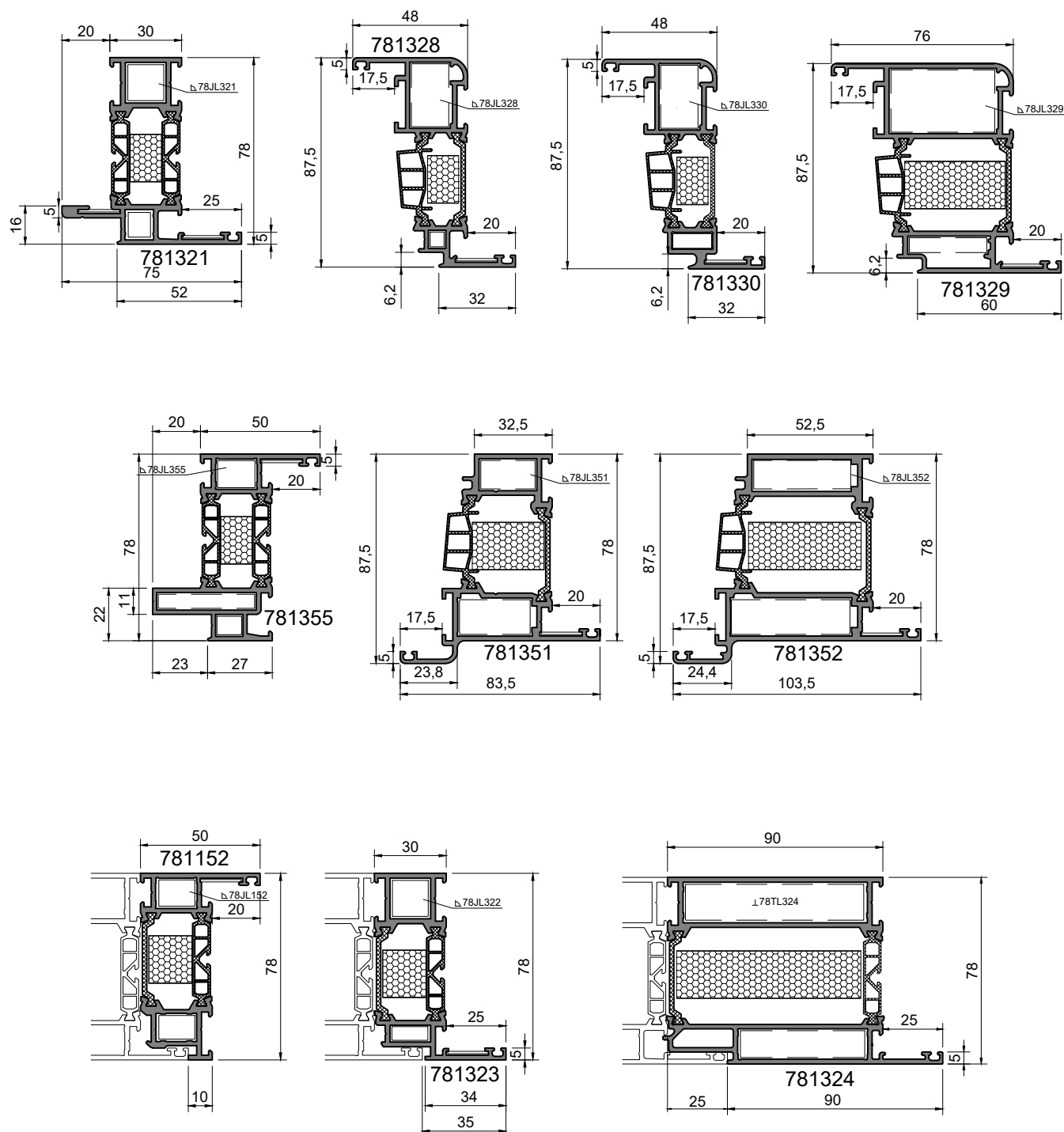


LK78X RUNKOPROFIILIT
LK78X FRAME PROFILES

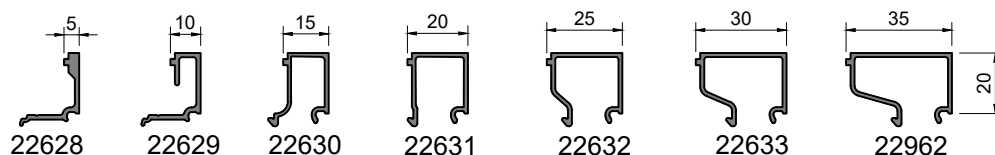


* Ei yhteensopiva suojahatun HT kanssa
Not compatible with cover cap HT

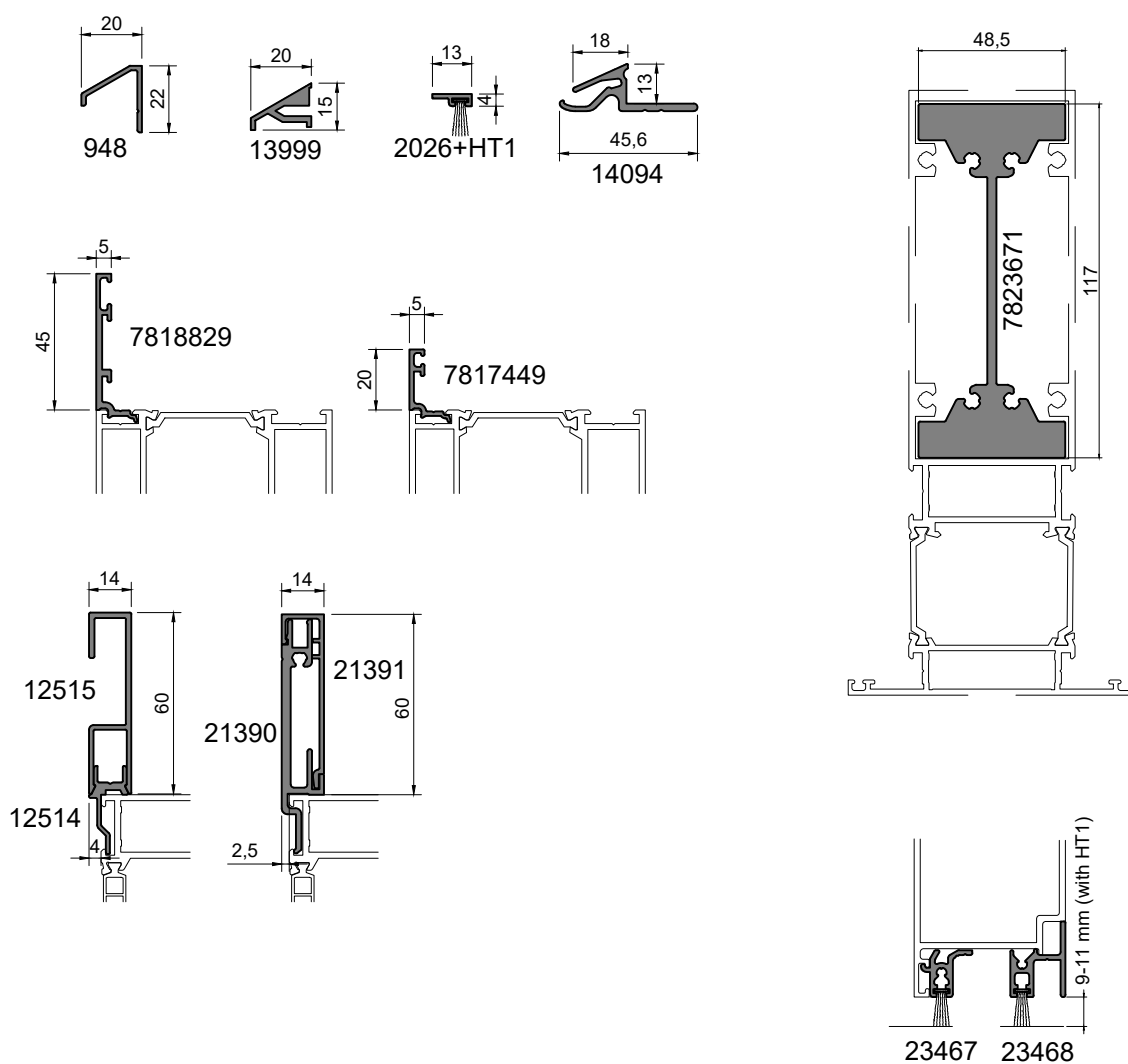
LK78X IKKUNAPROFIILIT
LK78X WINDOW PROFILES



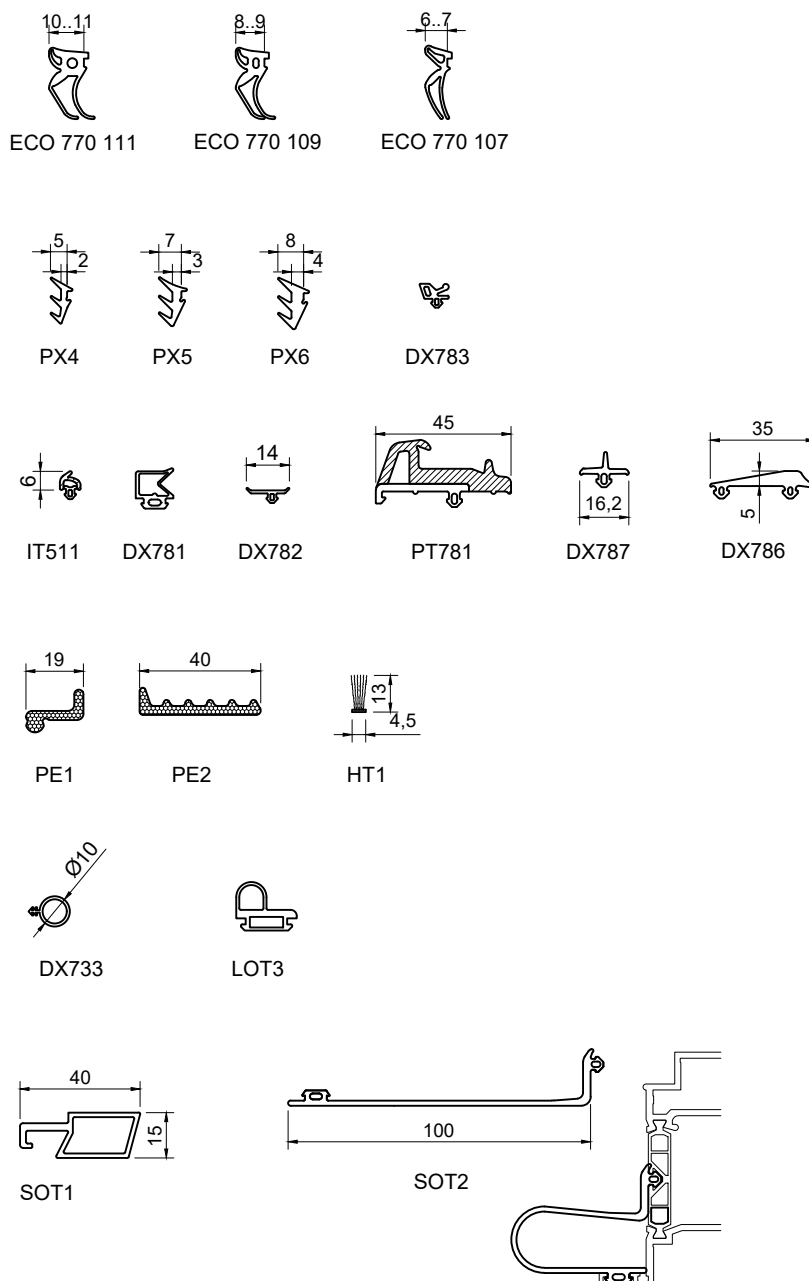
LK78X LASITUSLISTAT LK78X GLAZING BEADS



LISÄPROFIILIT ADDITIONAL PROFILES



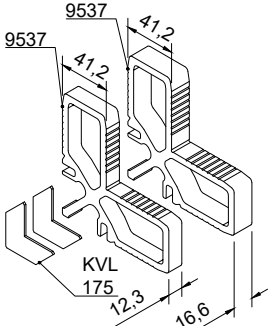
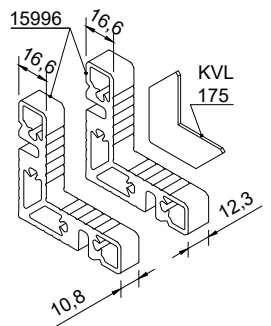
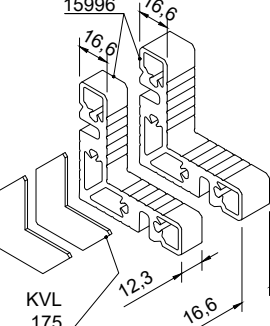
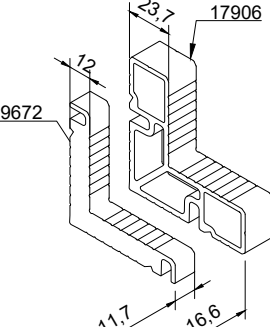
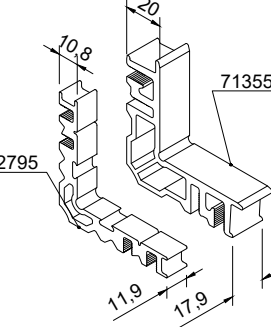
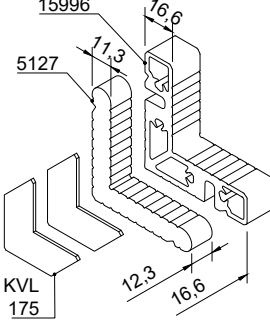
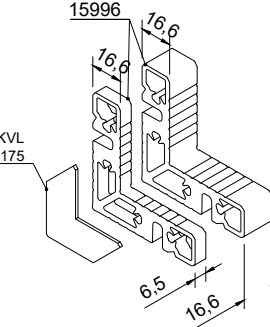
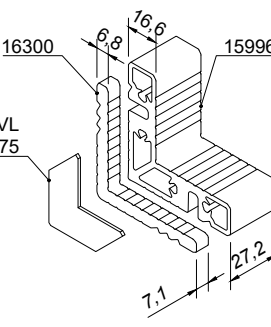
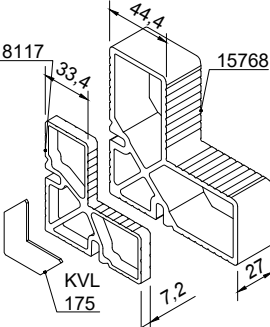
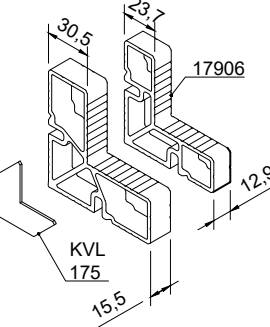
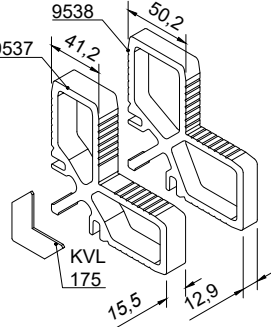
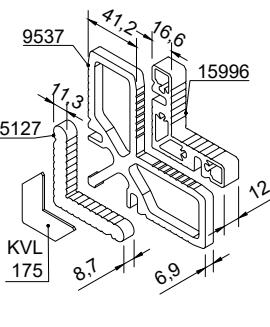
LK78X TIIVISTEET LK78X SEALINGS



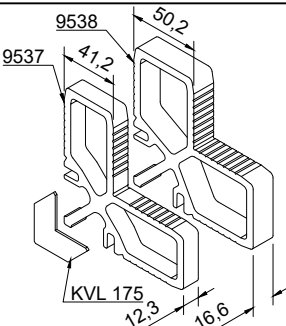
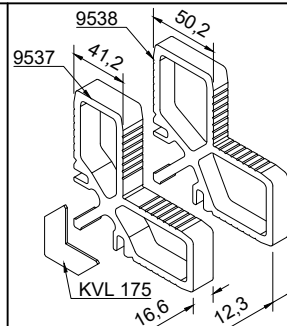
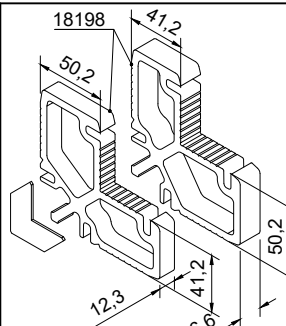
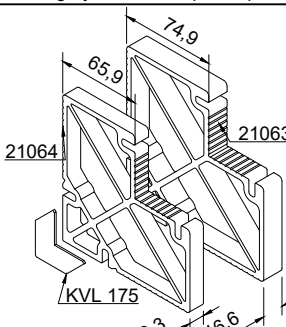
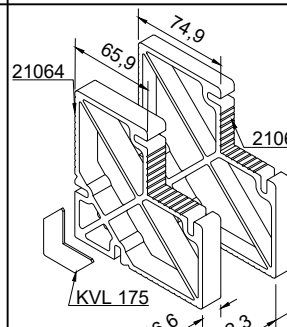
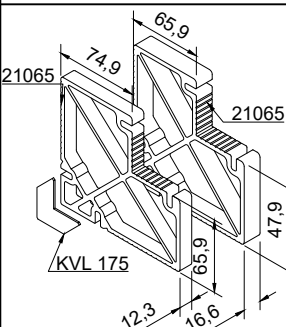
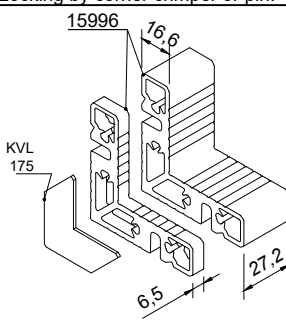
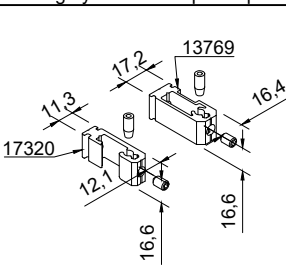
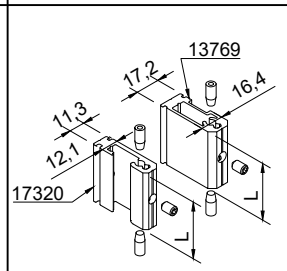
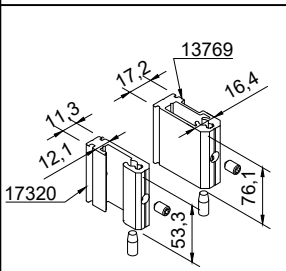
LIITOSKAPPALEET JOINING PIECES

Profiili Profile	Jiiriliitoskappale Mitre joint piece	T-liitoskappale T-joint piece
781001	-	78TL006
781002	78JL205	78TL205
781006	-	78TL006
781100	78JL101	78TL103
	78JL101	78TL103
781103	78JL101	78TL103
781104	-	78TL104
781107		78TL006
781108	-	78TL104
781109	-	-
781152	78JL152	-
781205	78JL205	78TL205
781205/R	-	-
781206,782206,782207	78JL205	78TL205
781208	-	-
781231	78JL231	-
781232	78JL232	-
781321	78JL321	-
781323	78JL322	-
781324	-	78TL324
781328	78JL328	-
781329	78JL329	-
781330	78JL330	-
781351	78JL351	-
781352	78JL352	-
781355	78JL355	-
781401,782401	78JL101	78TL103
781402	78JL101	78TL103
781403,782403	78JL205	78TL205
781404	78JL205	78TL205
781601, 782601	78JL101	78TL103
781602	78JL101	78TL103
781603, 782603	78JL205	78TL205
781604	78JL205	78TL205
781530	78JL530	-
781530 / 532	78JL530-532	-
781531	78JL530	-
781532	78JL352	-
781536	78JL352	-
781537	-	78TL103
781630	78JL630	-
781630 / 632	78JL630-632	-
781632	78JL632	-

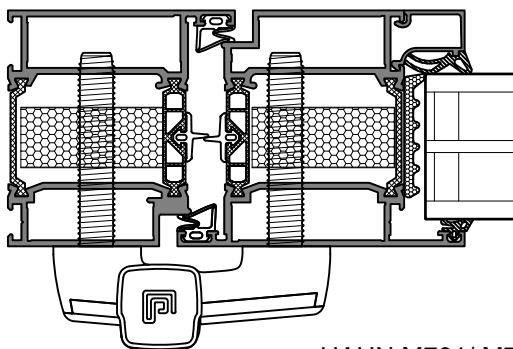
LIITOSKAPPALEET JOINING PIECES

Liitoskappale Joining piece	Liitoskappale Joining piece	Liitoskappale Joining piece
78JL101  Lukitus kulmapuristimella tai lukitustapein. Locking by corner crimper or pin.	78JL152  Lukitus kulmapuristimella tai lukitustapein. Locking by corner crimper or pin.	78JL205  Lukitus kulmapuristimella tai lukitustapein. Locking by corner crimper or pin.
78JL231  Lukitus kulmapuristimella tai lukitustapein. Locking by corner crimper or pin.	78JL232  Lukitus kulmapuristimella tai lukitustapein. Locking by corner crimper or pin.	78JL321  Lukitus kulmapuristimella tai lukitustapein. Locking by corner crimper or pin.
78JL322  Lukitus kulmapuristimella tai lukitustapein. Locking by corner crimper or pin.	78JL328  Lukitus kulmapuristimella Locking by corner crimper	78JL329  Lukitus kulmapuristimella tai lukitustapein. Locking by corner crimper or pin.
78JL351  Lukitus kulmapuristimella tai lukitustapein. Locking by corner crimper or pin.	78JL352  Lukitus kulmapuristimella tai lukitustapein. Locking by corner crimper or pin.	78JL355  Lukitus kulmapuristimella Locking by corner crimper

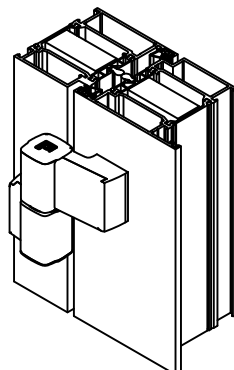
LIITOSKAPPALEET JOINING PIECES

Liitoskappale Joining piece		Liitoskappale Joining piece		Liitoskappale Joining piece	
78JL530	 Lukitus kulmapuristimella tai lukitustapein. Locking by corner crimper or pin.	78JL532	 Lukitus kulmapuristimella tai lukitustapein. Locking by corner crimper or pin.	78JL530-532	 Lukitus kulmapuristimella tai lukitustapein. Locking by corner crimper or pin.
78JL630	 Lukitus kulmapuristimella tai lukitustapein. Locking by corner crimper or pin.	78JL632	 Lukitus kulmapuristimella tai lukitustapein. Locking by corner crimper or pin.	78JL630-632	 Lukitus kulmapuristimella tai lukitustapein. Locking by corner crimper or pin.
78JL330	 Lukitus kulmapuristimella tai lukitustapein. Locking by corner crimper or pin.				
78TL205	 Pidätinruuvit ja lukitustapit tulevat T-liitos palojen mukana. Screws and pins come with T-joint pieces.	78TL103 L=41,1 78TL104 L=76,1 78TL006 L=95,6	 Pidätinruuvit ja lukitustapit tulevat T-liitos palojen mukana. Screws and pins come with T-joint pieces.	78TL324	 Pidätinruuvit ja lukitustapit tulevat T-liitos palojen mukana. Screws and pins come with T-joint pieces.

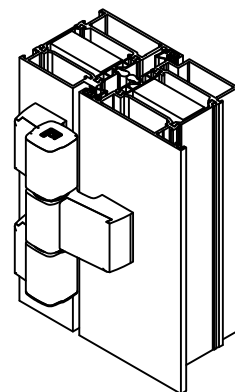
LK78X OVISARANAT
LK78X DOOR HINGES



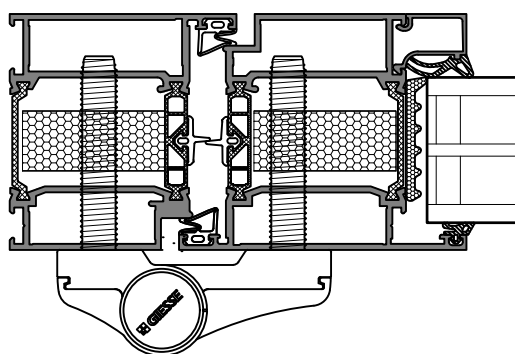
HAHN M701/ M751



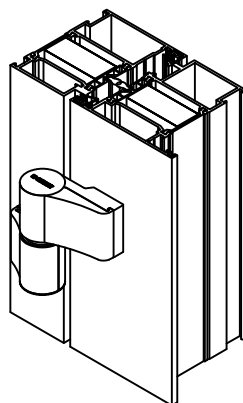
HAHN M701



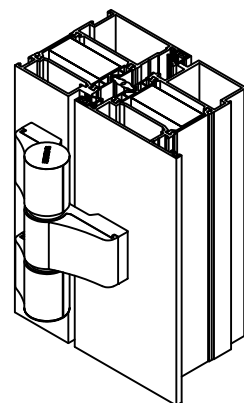
HAHN M751



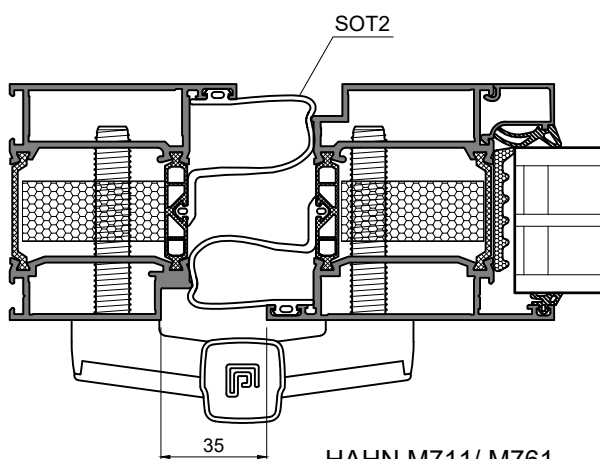
GIESSE DOMINA HP
05160V/ 05161V



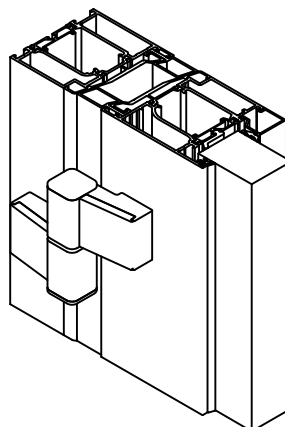
GIESSE DOMINA HP
2-leaf (05160V)



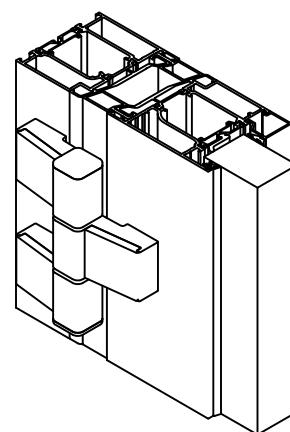
GIESSE DOMINA HP
3-leaf (05161V)



HAHN M711/ M761



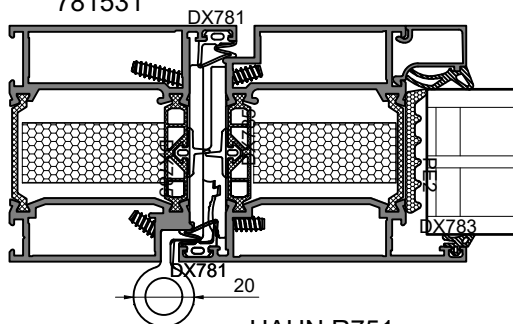
HAHN M711



HAHN M761

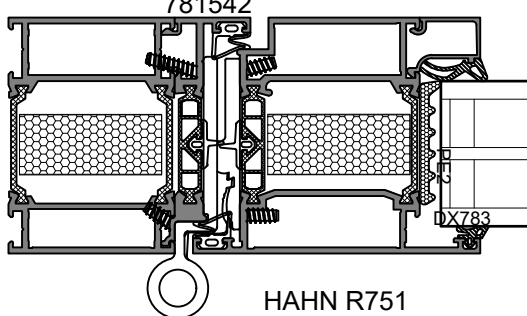
LK78X PUTKISARANA LK78X BUTT HINGES

781531



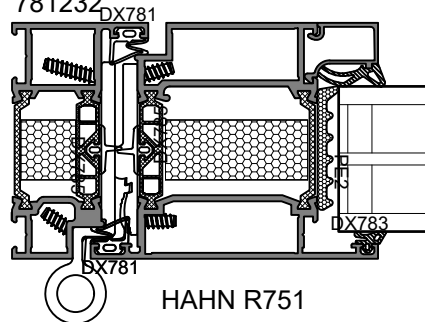
HAHN R751

781542



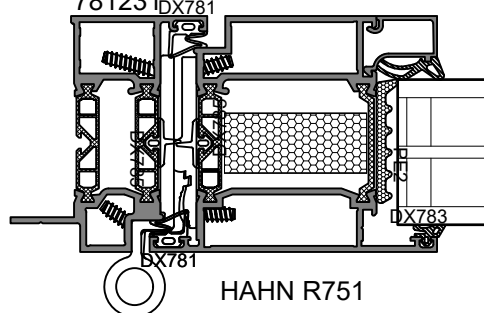
HAHN R751

781232

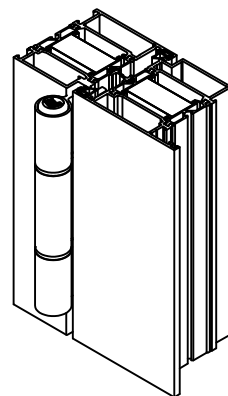


HAHN R751

781231



HAHN R751



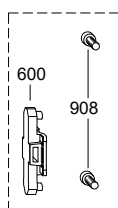
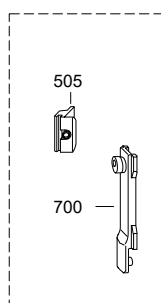
HAHN R751

OVILEHDEN (leveys ≤ 1000, korkeus 2000...2300)
SUOSITELTAVAT MAKSIMIPAINOT (kg) ERI SARANOILLA
DOOR LEAVES (width ≤ 1000, height 2000...2300)
RECOMMENDED MAXIMUM WEIGHTS (kg) FOR HINGES

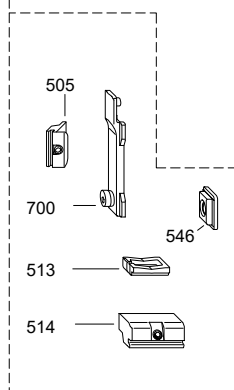
		Käyttökohde / Application				
Saranat Hinges			Omakotitalot, yms. Single-family houses etc	Porraskäytävän ovet, yms. Staircase doors, etc	Porraskäytävän ovet, yms. (Oviautomaatiikka) Staircase doors, etc (Door automation)	Koulut, sairaalat, yms. (Oviautomaatiikka) Schools, hospitals, etc. (Door automation)
Tyyppi/ Type	kpl/ pcs					
HAHN M701 (2-os)	2	100	—	—	—	
	3	120	100	—	—	
HAHN M751 (3-os)	2	120	100	—	—	
	3	120	120	100	100	
HAHN M901 (2-os)	2	120	—	—	—	
	3	140	120	—	—	
HAHN M951 (3-os)	2	120	120	—	—	
	3	140	140	120	120	
HAHN R751	2	120	120	—	—	
	3	140	140	100	100	
Giesse DOMINA HP (2-os)	2	120	—	—	—	
	3	140	120	—	—	
Giesse DOMINA HP (3-os)	2	120	120	—	—	
	3	140	140	120	120	

LK78X IKKUNAHELAT, HELASARJAT
LK78X WINDOW FITTINGS

SIHE ①

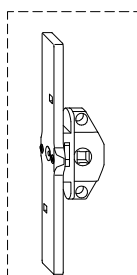
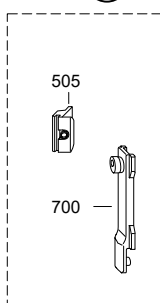


MMKL0060

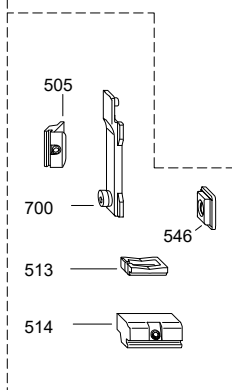


MMVS0240

SILU ②

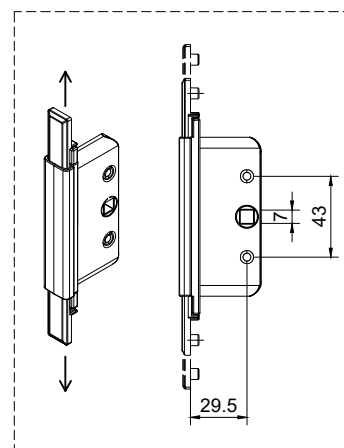
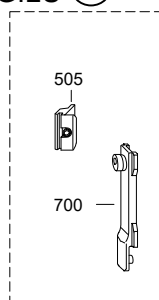


220597

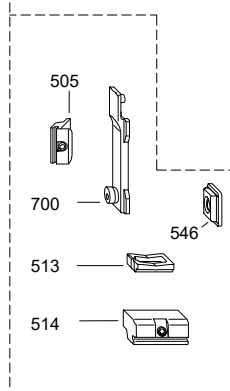


MMVS0240

GILU ③



GI04093

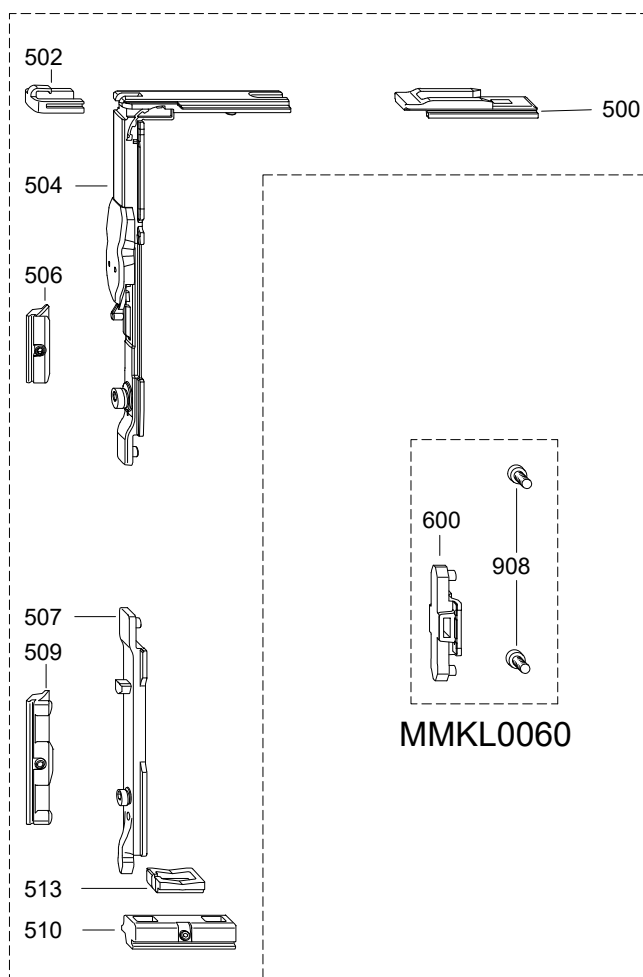


MMVS0240

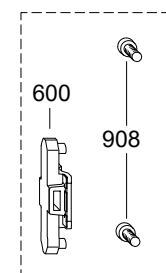
LK78X IKKUNAHELAT, HELASARJAT
LK78X WINDOW FITTINGS

SILM

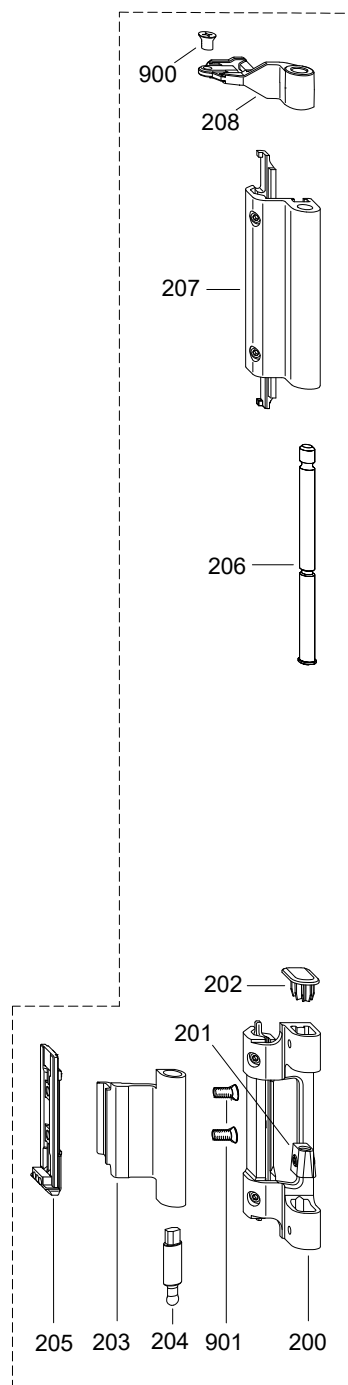
4



MMVS0310



MMKL0060

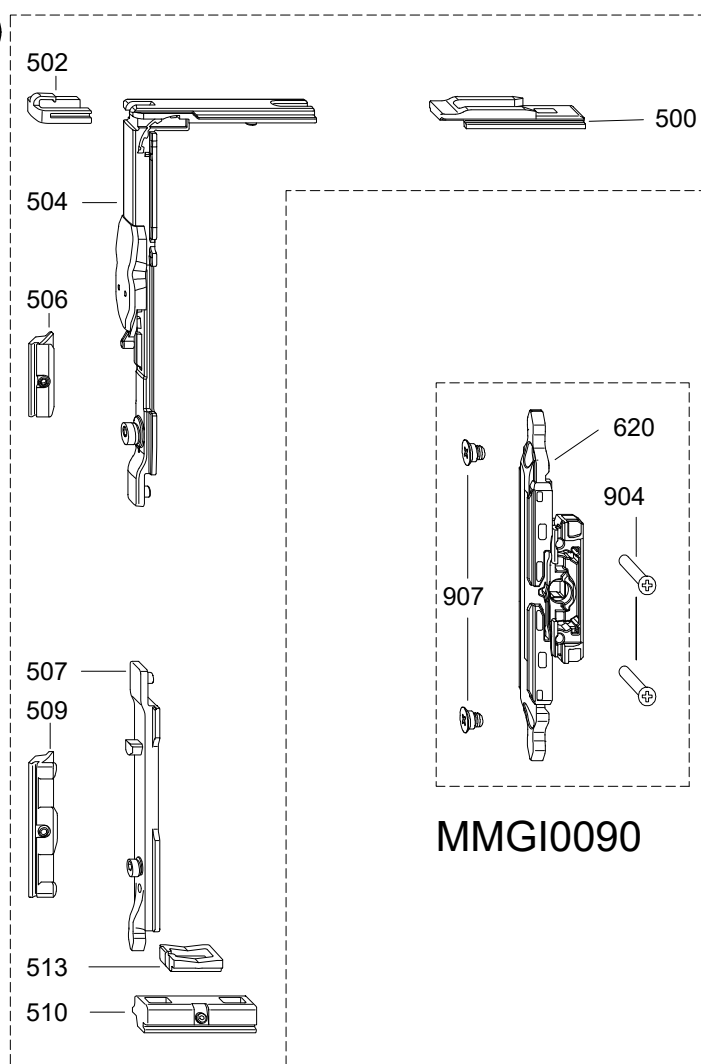


MMBS0220

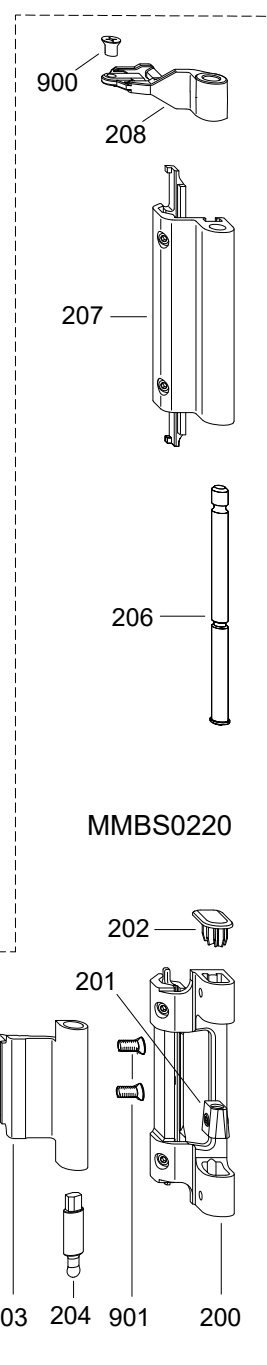
LK78X IKKUNAHELAT, HELASARJAT
LK78X WINDOW FITTINGS

SILMSQ

21



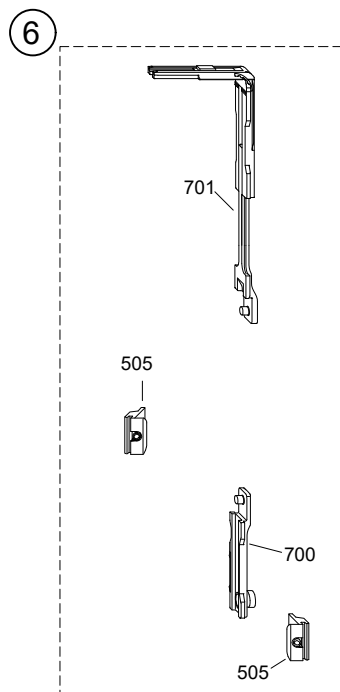
MMVS0310



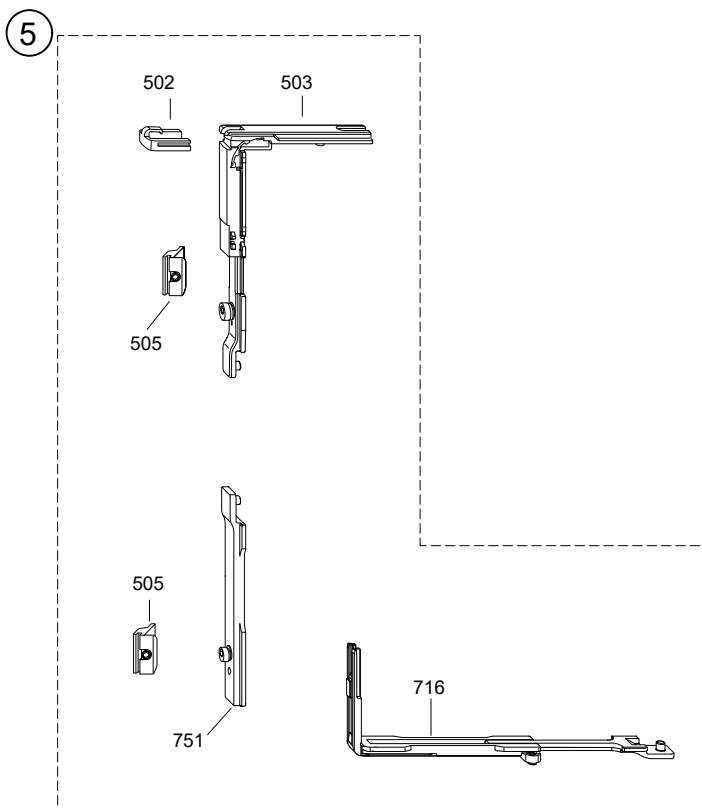
MMBS0220

MMBS0220

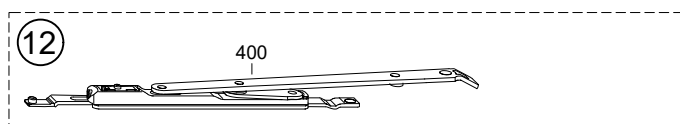
LK78X IKKUNAHELAT, KULMAHELASARJAT
LK78X WINDOW FITTINGS, CORNER DRIVES



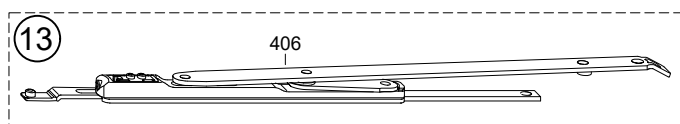
SILMLL (857045)



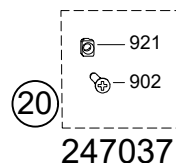
SIKU (MMM0040)



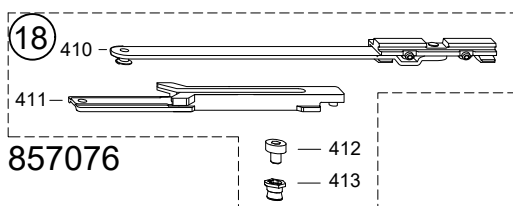
Sigr20 (MSKK0290)



Sigr35 (MSKK0300)



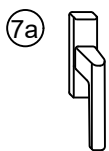
247037



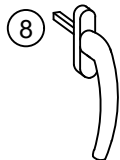
857076

— 412
— 413

LK78X IKKUNAHELAT, PAINIKKEET JA SARANAT LK78X WINDOW FITTINGS, HANDLES AND HINGES



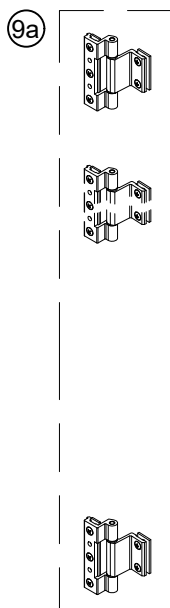
JHSIPA
hopea/silver



JHHOPAOUT
hopea/silver

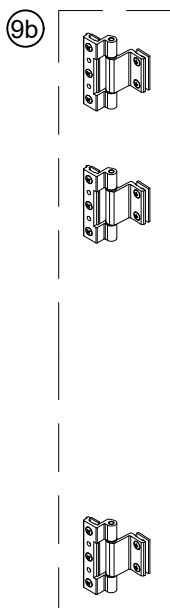
Kahvat Handles	Käyttökohteet Areas of application	Kara mm Spindle mm	Nro No.
JHSIPA	Inward	standard	7a
JHHOPAOUT	Outward	75	8

FASA, raaka/uncoated



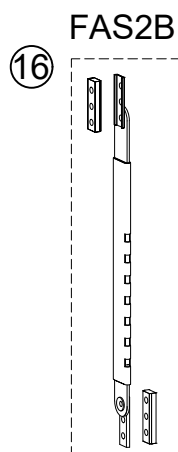
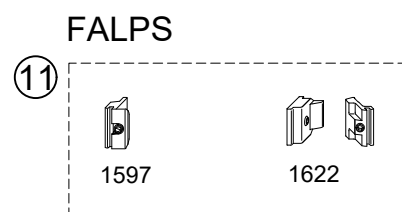
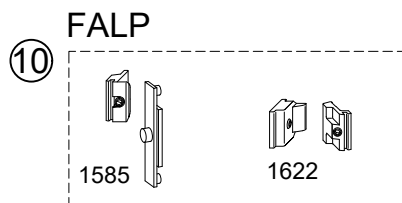
9918 41-GR

FASA, LV20



9918 05-ARG

LK78X IKKUNAHELAT, MUUT OSAT
LK78X WINDOW FITTINGS, OTHER PARTS

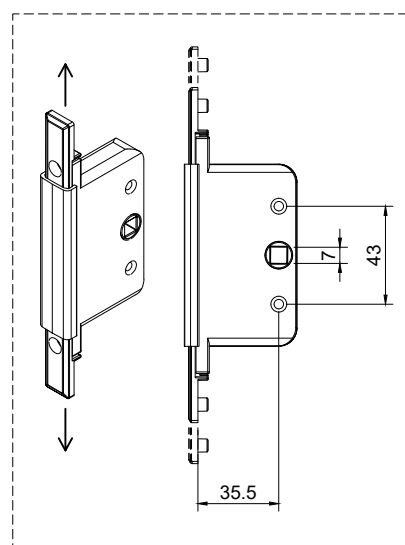
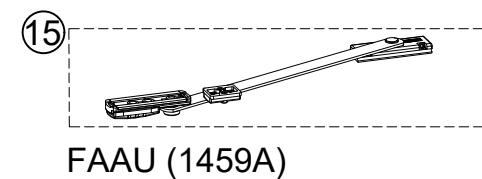
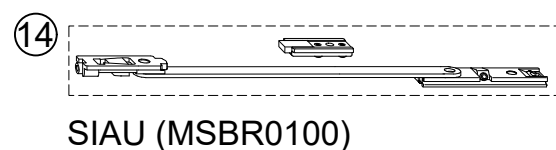


P70.AS2.000P.B2 +
P70.00B.000.00

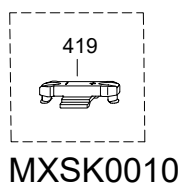
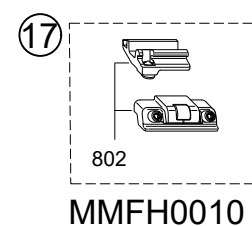
Liukukisko
Drive rod



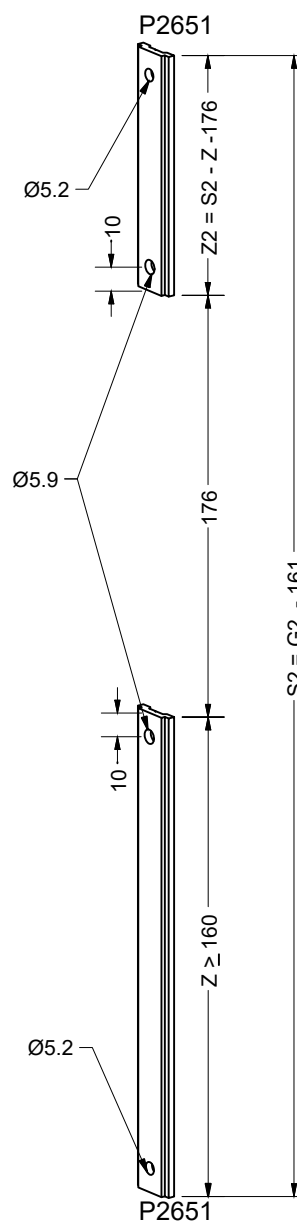
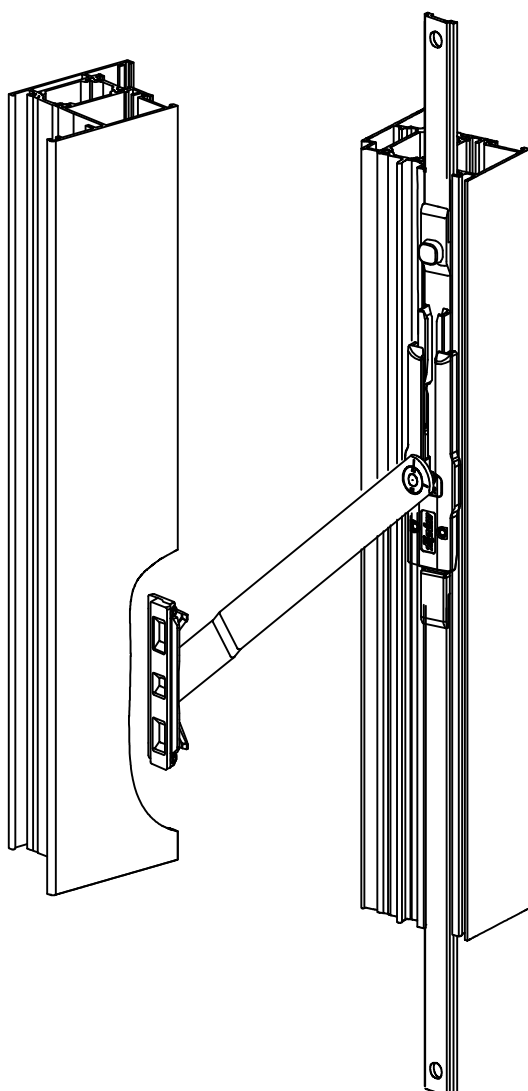
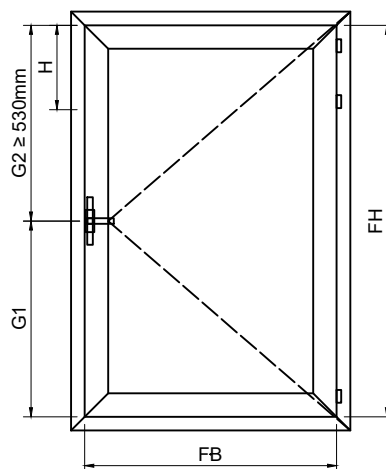
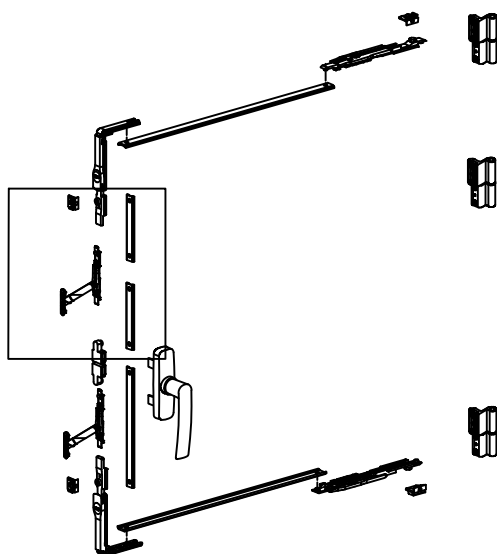
23369/ P2651



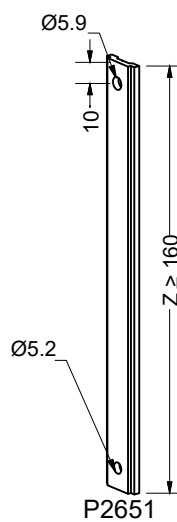
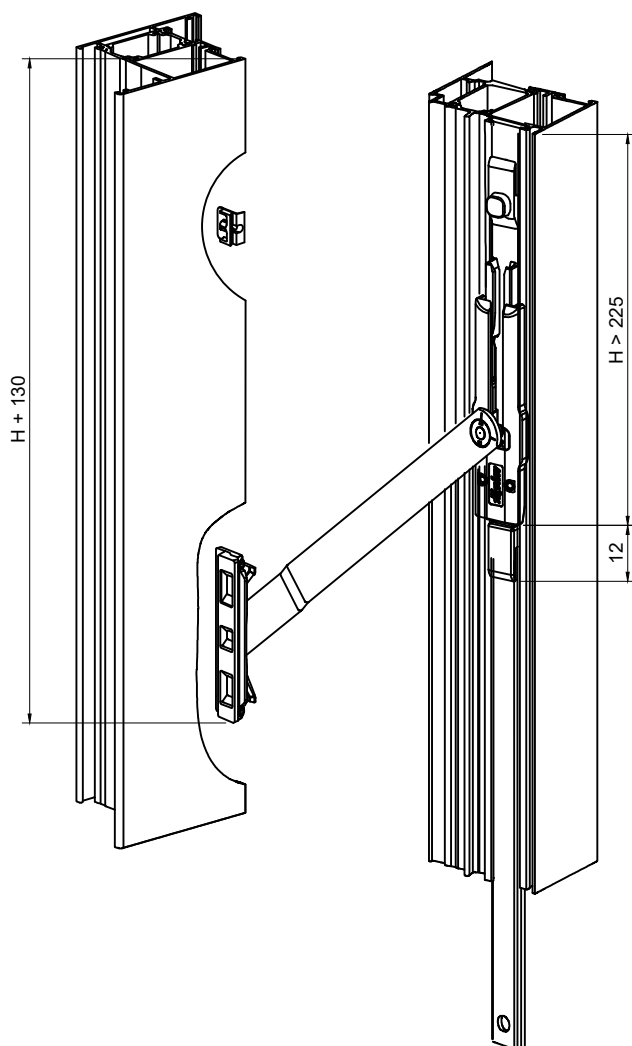
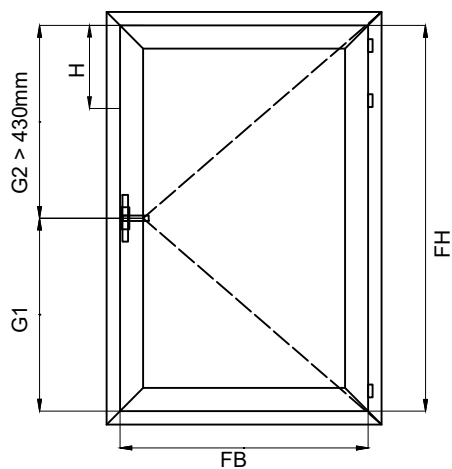
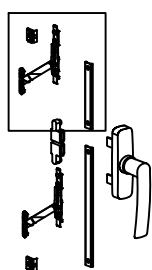
GI04108



Avautumisen rajoitin
Limite Stop Arm



Avautumisen rajoitin
Limite Stop Arm

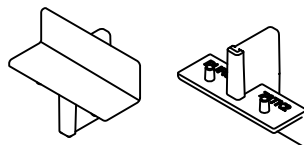


TARVIKKEITA ACCESSORIES

PARIOVEN TIIVISTYSKAPPALE

Symmetrinen, 4 kpl/ovi

Sealing piece for double door 4pcs/ door

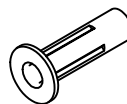


78TK2

LUKON KIINNITYSNIITTI

Haarautuva sisäkierreniitti (M5x25), 2kpl/ lukkorunko

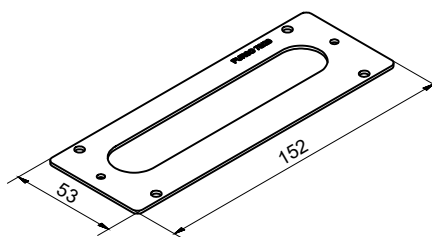
Lock fixing clamp, 2 pcs/ lock



78H/10

LUKON VASTALEVYN ALUSLEVY

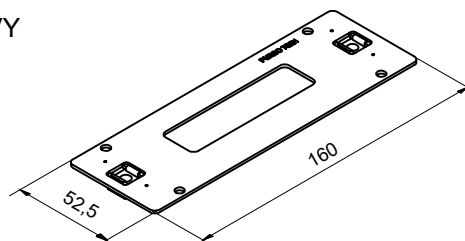
Base plate for lock counterplate



78/20

LUKON VASTALEVYN SÄÄDETTÄVÄ ALUSLEVY

Adjustable base plate for lock counterplate

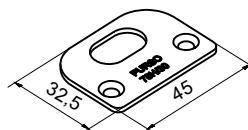


78/21

PIKASALVANHELA

Karmi ja kynnyks

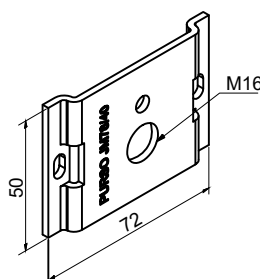
Fitting piece for quick latch



78H/30

KARMIN KIINNITYSLEVY (RST)

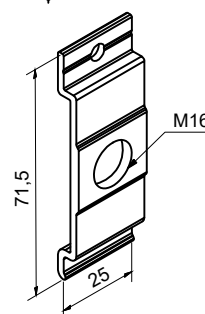
Fixing plate for frame (stainless steel)



78/40

KARMIN KIINNITYSLEVY (Alumiini)

Fixing plate for frame (Aluminium)



78/45

KIINNITYSHYLSY KIINNITYSLEVYYN 78/40 ja 78/45

Frame-screws for fixing plate 78/40 and 78/45

JMAAdjufix (AH38)



Puu / Wood

JMAAdjufix 120103 8x64



Teräs / Steel

JMAAdjufix 120106 6,7x42



Betoni / Concrete

JMAAdjufix 120457 7,5x70



TARVIKKEITA
ACCESSORIES

Product:

Product code:

Talttavasara

JMGUNHAMMER

Gunhammer

JMGUNHAMMER

*Yhteensopiva niitti:

JMNIIITTI

*Compatible rivet

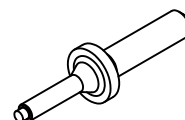
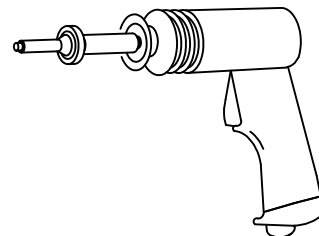
JMNIIITTI

Vaihtokärki

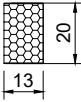
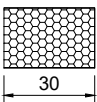
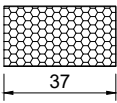
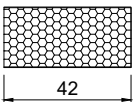
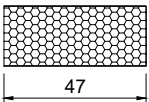
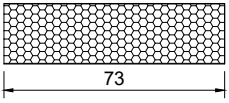
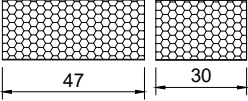
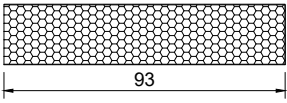
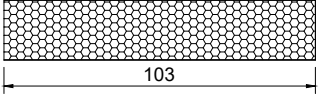
JMPIN TIP FOR HAMMERTOOL K2383-2

Spare tip

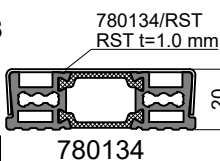
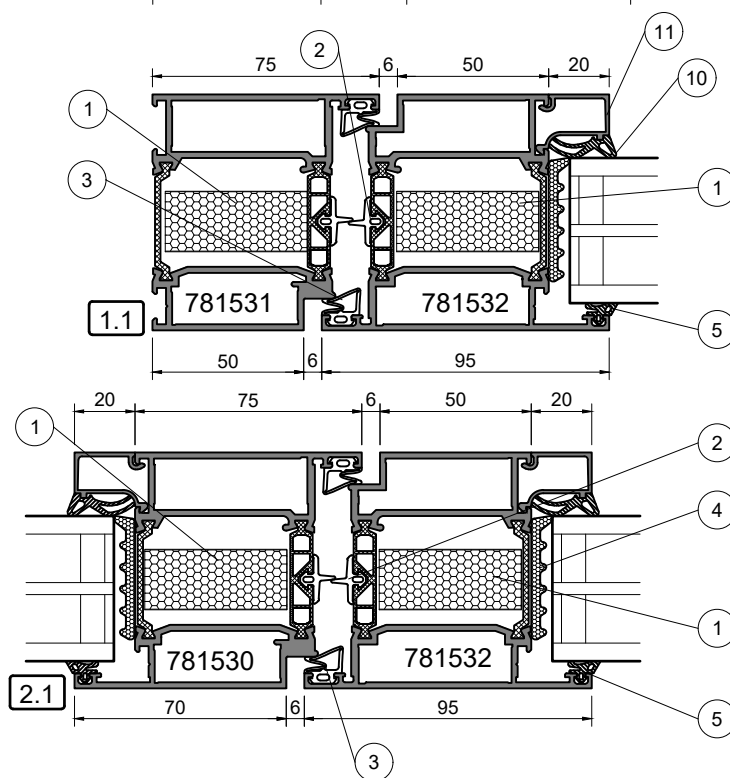
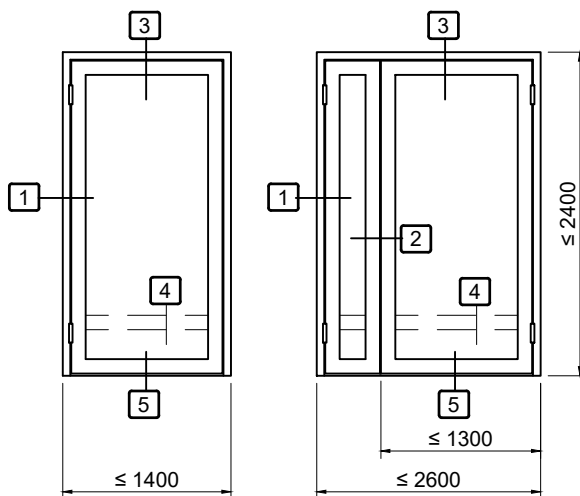
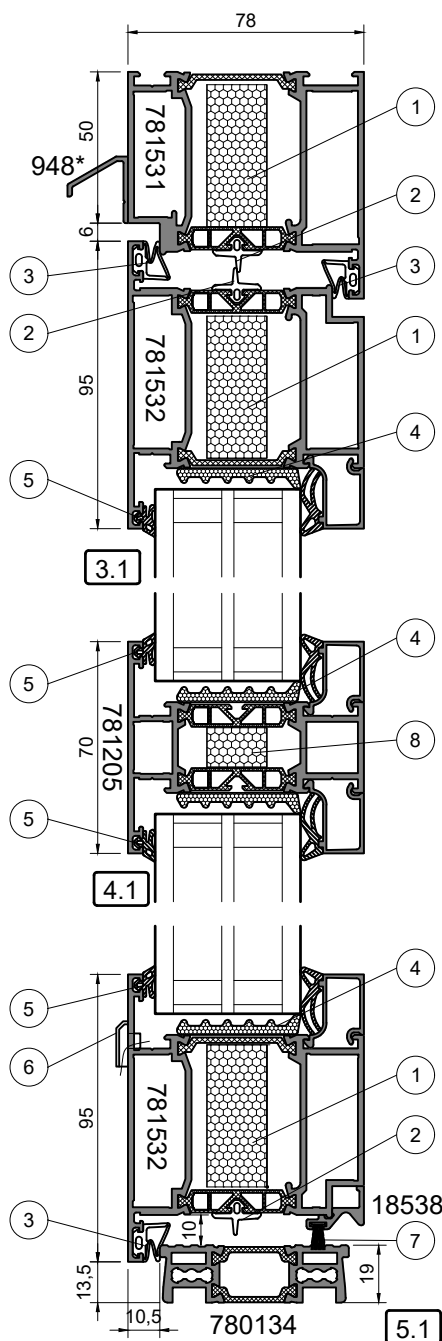
JMPIN TIP FOR HAMMERTOOL K2383-2



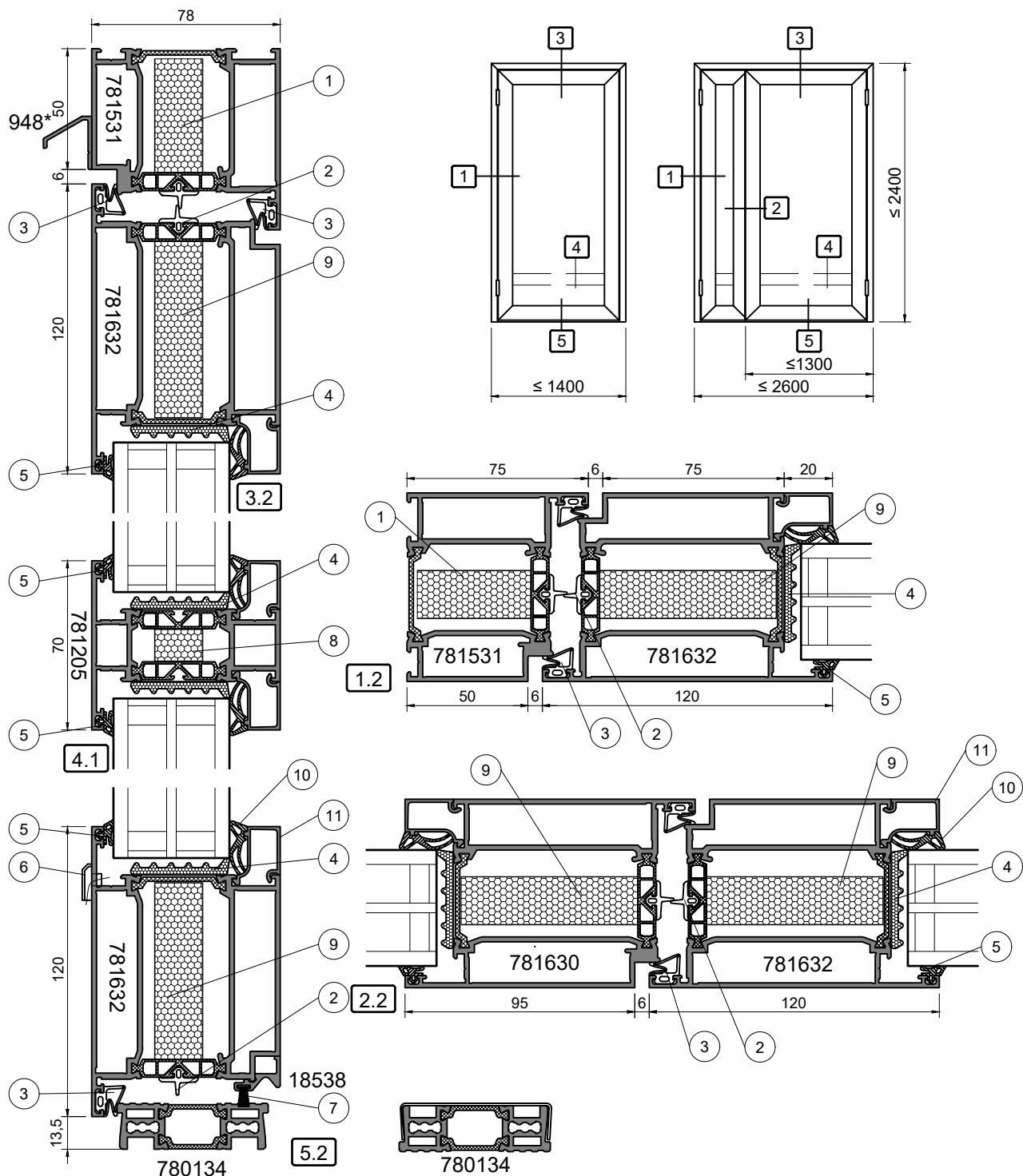
ERISTESOIROT INSULATION BLOCK

		Profileille/ For profiles:
PUR20x13		781205, 781205R, 781321, 781328, 781330, 781355
PUR20x18		781232, 781206, 781152, 781323, 782206, 782207
PUR20x23		781002, 781403, 781404
PUR20x30		781351
PUR20x37		781103
PUR20x42		781101, 781329, 782101, 782102
PUR20x47		781531, 781532, 781530, 781536, 781537, 781100, 781401,
PUR20x73		781632 781630, 781104
PUR20x47 PUR20x30		781008, 781324
PUR20x93		781006
PUR20x103		78001

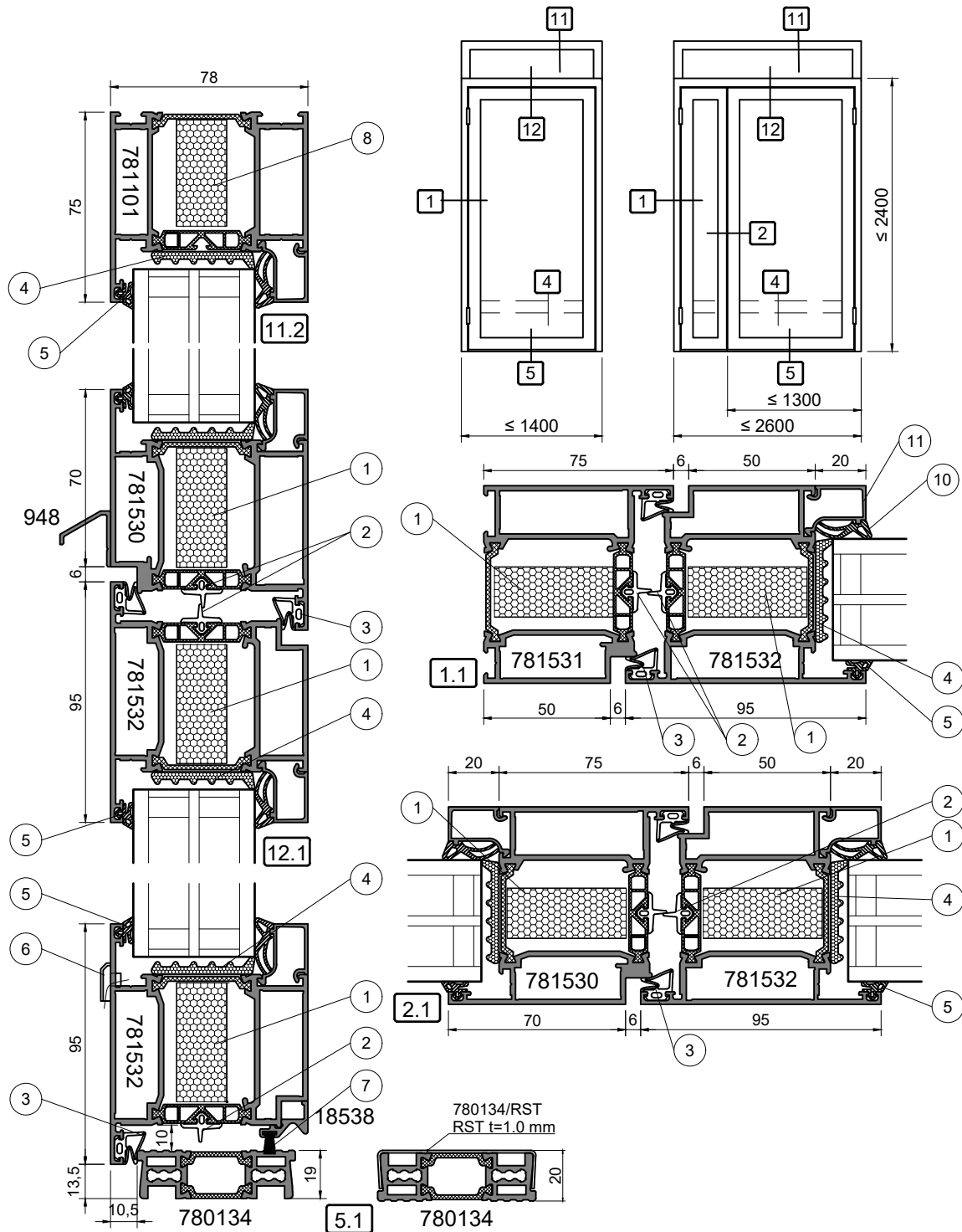
L=1250 10 kpl/pakkaus
10 pcs/batch

LK78X 1-, 2-LEHTINEN OVI. PUITE 781532
LK78X 1-, 2-LEAF DOOR. LEAF 781532


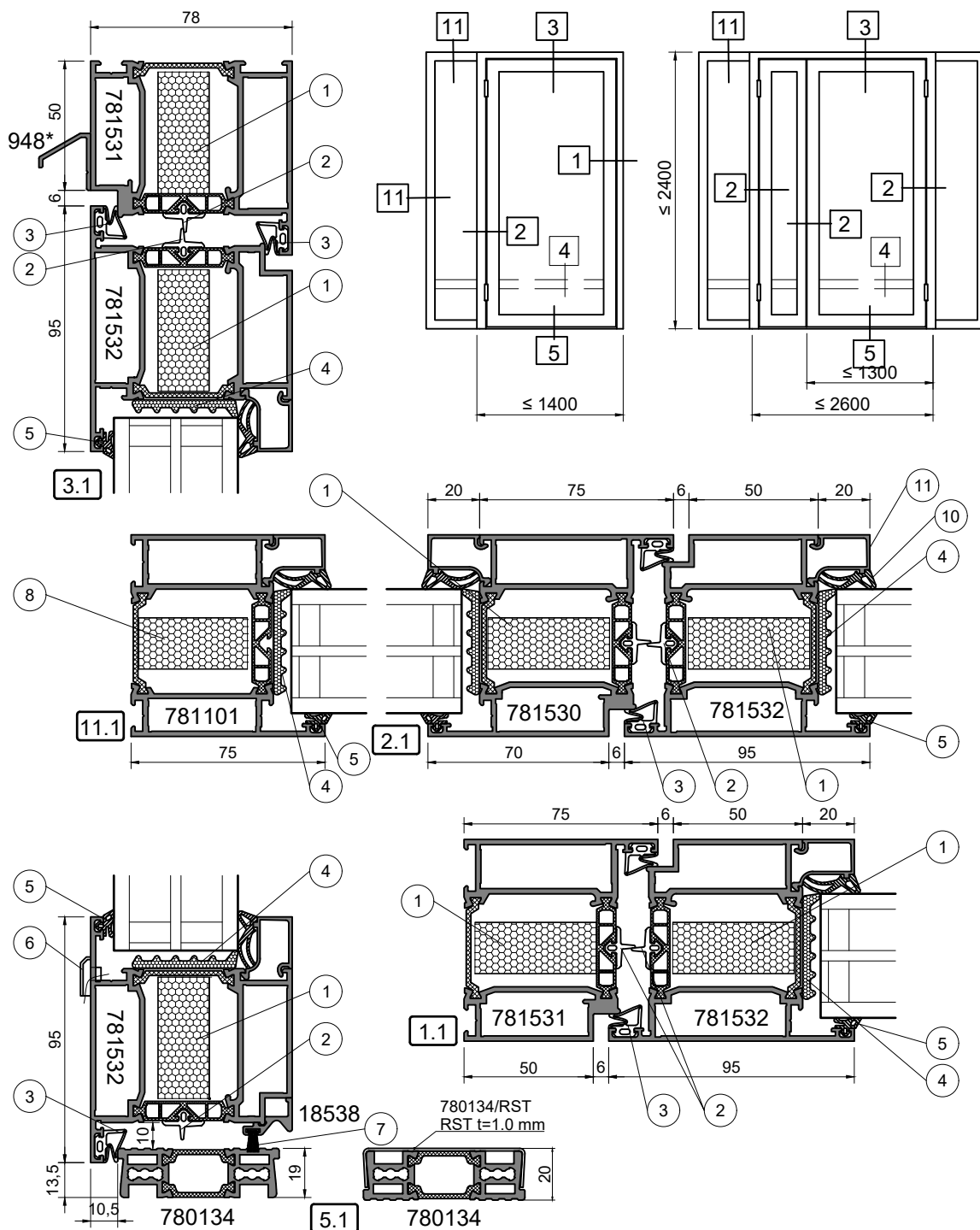
① Eristelevy Insulation strip	PUR20x47 □ 3.6	⑤ Ulkopuolen lasitustiiviste Exterior glazing gasket	DX783 □ 10.3.1	⑩ Sisäpuolen lasitustiiviste Inside glazing gasket	Ecoxxx □ 10.2,10.3.3
② Keskitiiviste Middle gasket	DX787 □	⑥ Suojahattu Cover cap	SH1* □ 7.10.1	⑪ Lasituslista Glazing strip	□ 10.2,10.3.3
③ Huulostiiviste Lip gasket	DX781 □ 8.6.2	⑦ Harjatiiviste Brush gasket	HT1 □ 8.6.4		
④ Kynnetilan tiiviste Rebate sealing	PE2 □ 10.3.2	⑧ Eristelevy Insulation strip	PUR20x13 □ 3.6		

LK78X 1-, 2-LEHTINEN OVI. PUITE 781632
LK78X 1-, 2-LEAF DOOR. LEAF 781632


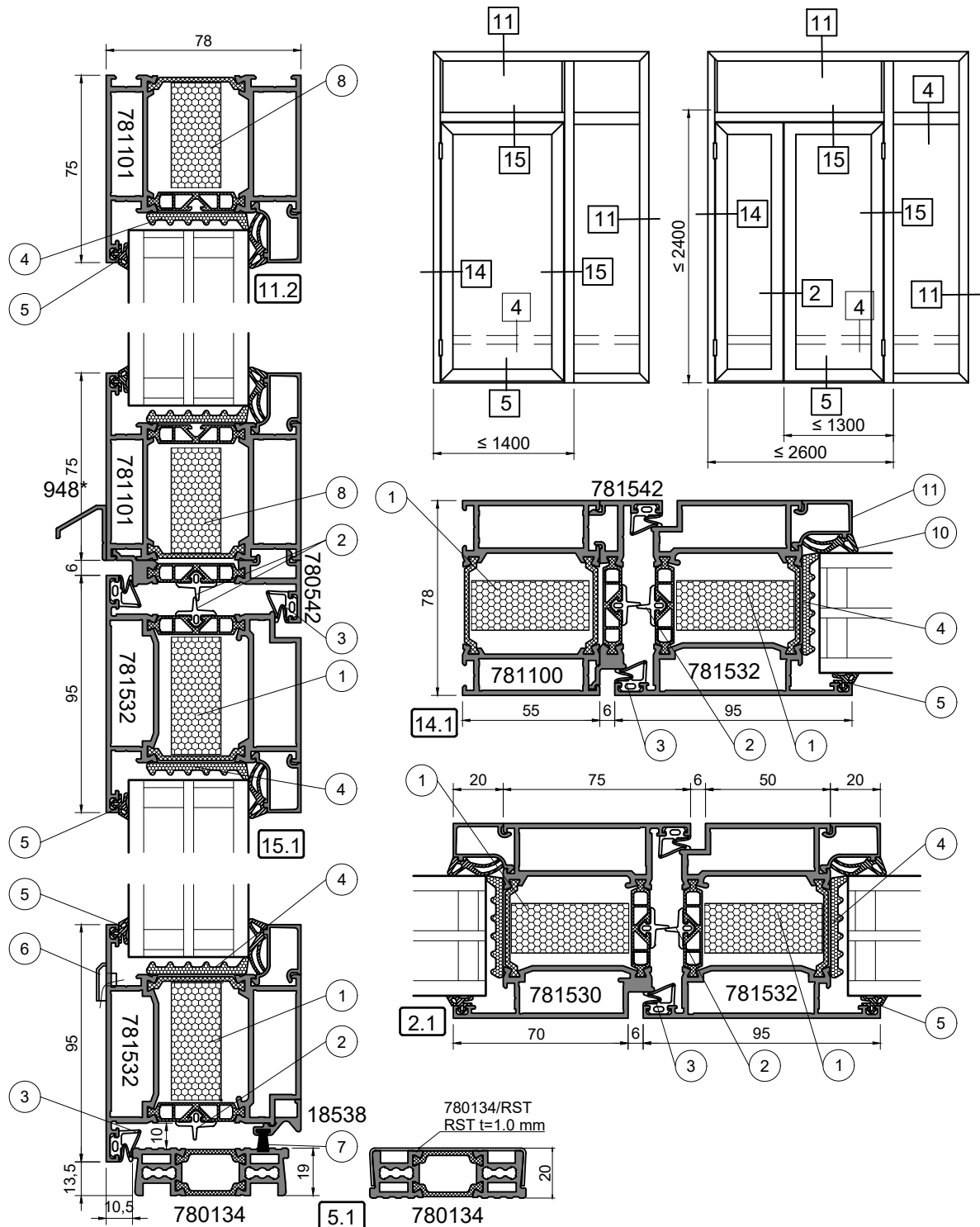
① Eristelevy Insulation strip	PUR20x47 □ 3.6	⑤ Ulkopuolen lasitustiiviste Exterior glazing gasket	DX783 □ 10.3.1	⑨ Eristelevy Insulation strip	PUR20x73 □ 3.6
② Keskitiiviste Middle gasket	DX787 □	⑥ Suojahattu Cover cap	SH1* □ 7.10.1	⑩ Sisäpuolen lasitustiiviste Inside glazing gasket	Ecoxxx □ 10.2,10.3.3
③ Huulostiiviste Lip gasket	DX781 □ 8.6.2	⑦ Harjatiiviste Brush gasket	HT1 □ 8.6.4	⑪ Lasituslista Glazing strip	□ 10.2,10.3.3
④ Kyntetilan tiiviste Rebate sealing	PE2 □ 10.3.2	⑧ Eristelevy Insulation strip	PUR20x13 □ 3.6		

LK78X OVI YLÄPIELELLÄ
LK78X DOOR


① Eristelevy Insulation strip	PUR20x47 □ 3.6	⑤ Ulkopuolen lasitustiiviste Exterior glazing gasket	DX783 □ 10.3.1	⑩ Sisäpuolen lasitustiiviste Inside glazing gasket	Ecoxxx □ 10.2,10.3.3
② Keskitiiviste Middle gasket	DX787 □	⑥ Suojahattu Cover cap	SH1* □ 7.10.1	⑪ Lasituslista Glazing strip	□ 10.2,10.3.3
③ Huulostiiviste Lip gasket	DX781 □ 8.6.2	⑦ Harjatiiviste Brush gasket	HT1 □ 8.6.4		
④ Kynnetilan tiiviste Rebate sealing	PE2 □ 10.3.2	⑧ Eristelevy Insulation strip	PUR20x42 □ 3.6		

LK78X OVI SIVUPIEILELLÄ
LK78X DOOR


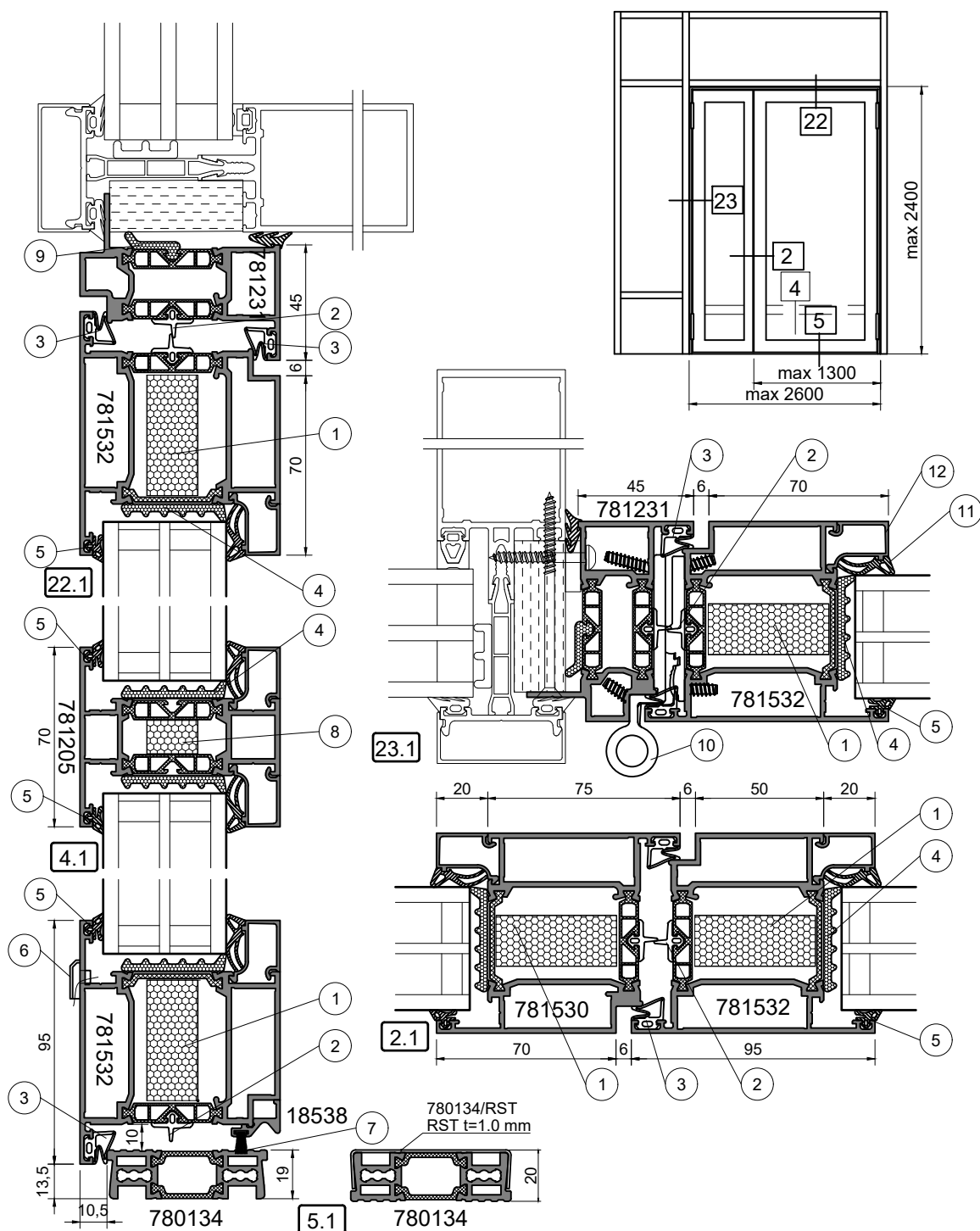
① Eristelevy Insulation strip	PUR20x47 □ 3.6	⑤ Ulkopuolen lasitustiiviste Exterior glazing gasket	DX783 □ 10.3.1	⑩ Sisäpuolen lasitustiiviste Inside glazing gasket	Ecoxxx □ 10.2,10.3.3
② Keskitiiviste Middle gasket	DX787 □	⑥ Suojahattu Cover cap	SH1* □ 7.10.1	⑪ Lasituslista Glazing strip	□ 10.2,10.3.3
③ Huulostiiviste Lip gasket	DX781 □ 8.6.2	⑦ Harjatiiviste Brush gasket	HT1 □ 8.6.4		
④ Kyntetilan tiiviste Rebate sealing	PE2 □ 10.3.2	⑧ Eristelevy Insulation strip	PUR20x42 □ 3.6		

LK78X OVI YLÄ- JA SIVUPIEILELLÄ
LK78X DOOR


① Eristelevy Insulation strip	PUR20x47 □ 3.6	⑤ Ulkopuolen lasitustiiviste Exterior glazing gasket	DX783 □ 10.3.1	⑩ Sisäpuolen lasitustiiviste Inside glazing gasket	Ecoxxx □ 10.2,10.3.3
② Keskitiiviste Middle gasket	DX787 □	⑥ Suojahattu Cover cap	SH1* □ 7.10.1	⑪ Lasituslista Glazing strip	□ 10.2,10.3.3
③ Huulostiiviste Lip gasket	DX781 □ 8.6.2	⑦ Harjatiiviste Brush gasket	HT1 □ 8.6.4		
④ Kyntetilan tiiviste Rebate sealing	PE2 □ 10.3.2	⑧ Eristelevy Insulation strip	PUR20x42 □ 3.6		

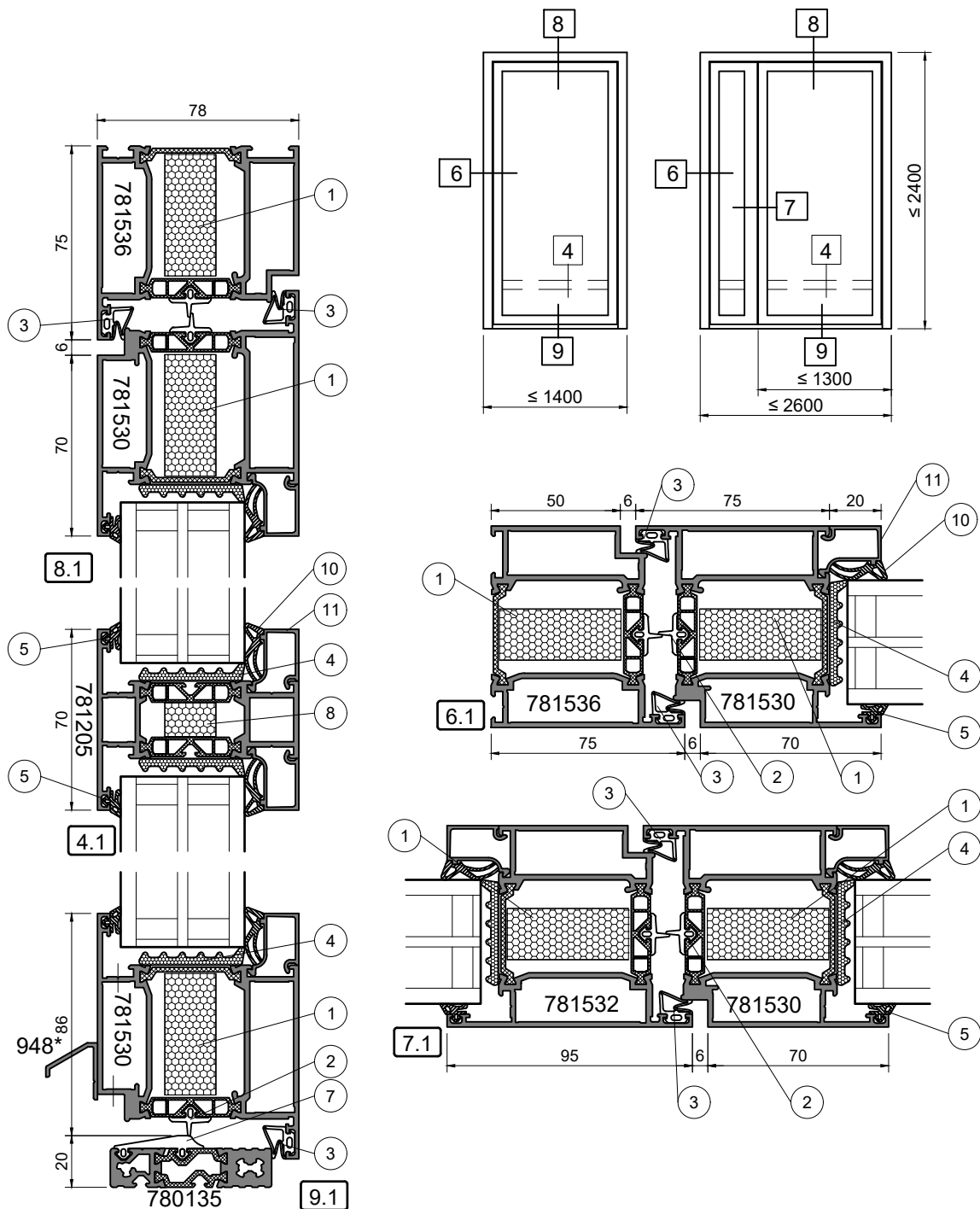
1	Eristelevy Insulation strip	PUR20x47 📖 3.6	5	Ulkopuolen lasitustiiviste Exterior glazing gasket	DX783 📖 10.3.1	9	Sisäpuolen lasitustiiviste Inner glazing gasket	PX 📖 3.1
2	Keskitiiviste Middle gasket	DX787 📖	6	Suojahattu Cover cap	SH1* 📖 7.10.1	10	Sisäpuolen lasitustiiviste Inside glazing gasket	Ecoxxx 📖 10.2,10.3.3
3	Huullostiiviste Lip gasket	DX781 📖 8.6.2	7	Harjatiiviste Brush gasket	HT1 📖 8.6.4	11	Lasituslista Glazing strip	📖 10.2,10.3.3
4	Kyntetilan tiiviste Rebate sealing	PE2 📖 10.3.2	8	Eristelevy Insulation strip	PUR20x13 📖 3.6			

LK78X OVI P50L JULKISIVUSSA. KARMI 781231
LK78X DOOR IN P50L CURTAIN WALL. FRAME 781231



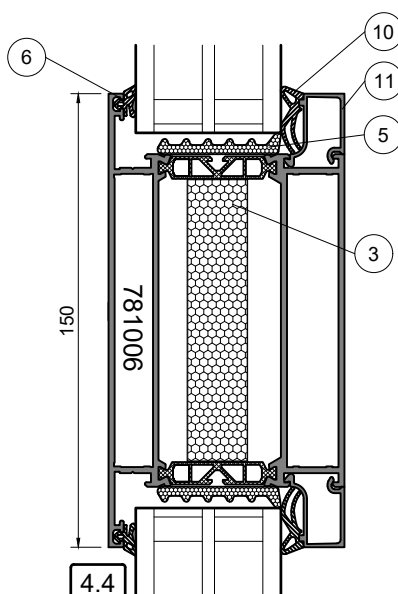
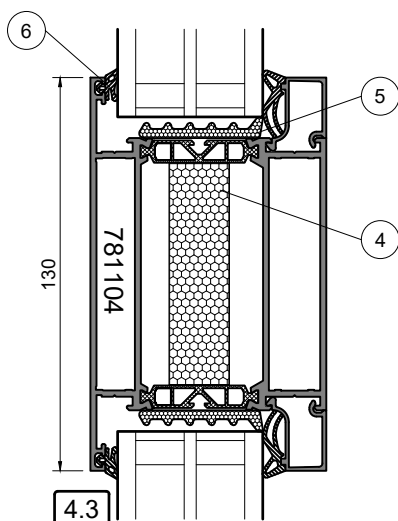
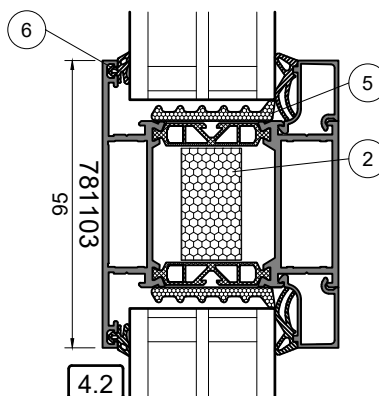
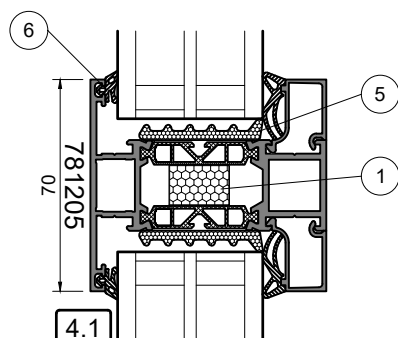
1	Eristelevy Insulation strip	PUR20x47 □ 3.6	5	Ulkopuolen lasitustiiviste Exterior glazing gasket	DX783 □ 10.3.1	9	Kyntetilan tiiviste Rebate sealing	PE1 □
2	Keskitiiviste Middle gasket	DX787 □	6	Suojahattu Cover cap	SH1* □ 7.10.1	10	Sarana Hinge	HAHN R751 □ 7.4.1.3
3	Huulostiiviste Lip gasket	DX781 □ 8.6.2	7	Harjatiiviste Brush gasket	HT1 □ 8.6.4	11	Sisäpuolen lasitustiiviste Inside glazing gasket	Ecoxxx □ 10.2,10.3.3
4	Kyntetilan tiiviste Rebate sealing	PE2 □ 10.3.2	8	Eristelevy Insulation strip	PUR20x13 □ 3.6	12	Lasituslista Glazing strip	□ 10.2,10.3.3

LK78X 1-, 2-LEHTINEN SISÄÄNAUKEAVA OVI. PUIITE 781530
LK78X 1-, 2-LEAF INSIDE OPENING DOOR. LEAF 781530

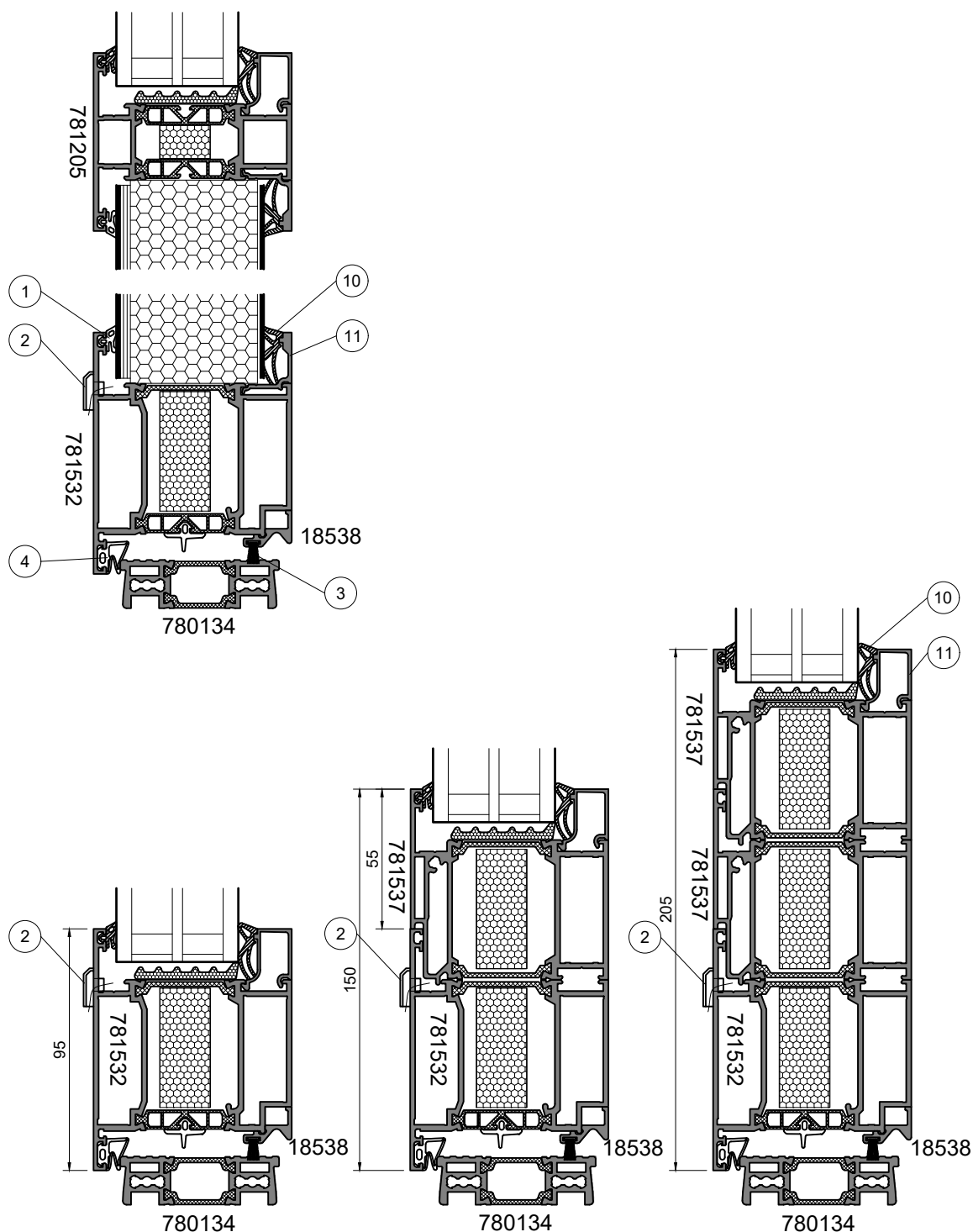


1	Eristelevy Insulation strip	PUR20x47 10.3.6	5	Ulkopuolen lasitustiiviste Exterior glazing gasket	DX783 10.3.1	11	Lasituslista Glazing strip	10.2, 10.3.3
2	Keskitiiviste Middle gasket	DX787 10.3.7	7	Kynnystiiviste Threshold gasket	DX786 10.3.6			
3	Huulostiiviste Lip gasket	DX781 8.6.2	8	Eristelevy Insulation strip	PUR20x13 10.3.6			
4	Kyntetilan tiiviste Rebate sealing	PE2 10.3.2	10	Sisäpuolen lasitustiiviste Inside glazing gasket	Ecoxxx 10.2, 10.3.3			

LK78X OVEN VAAKAJAOT
LK78X DOOR HORIZONTAL FRAME

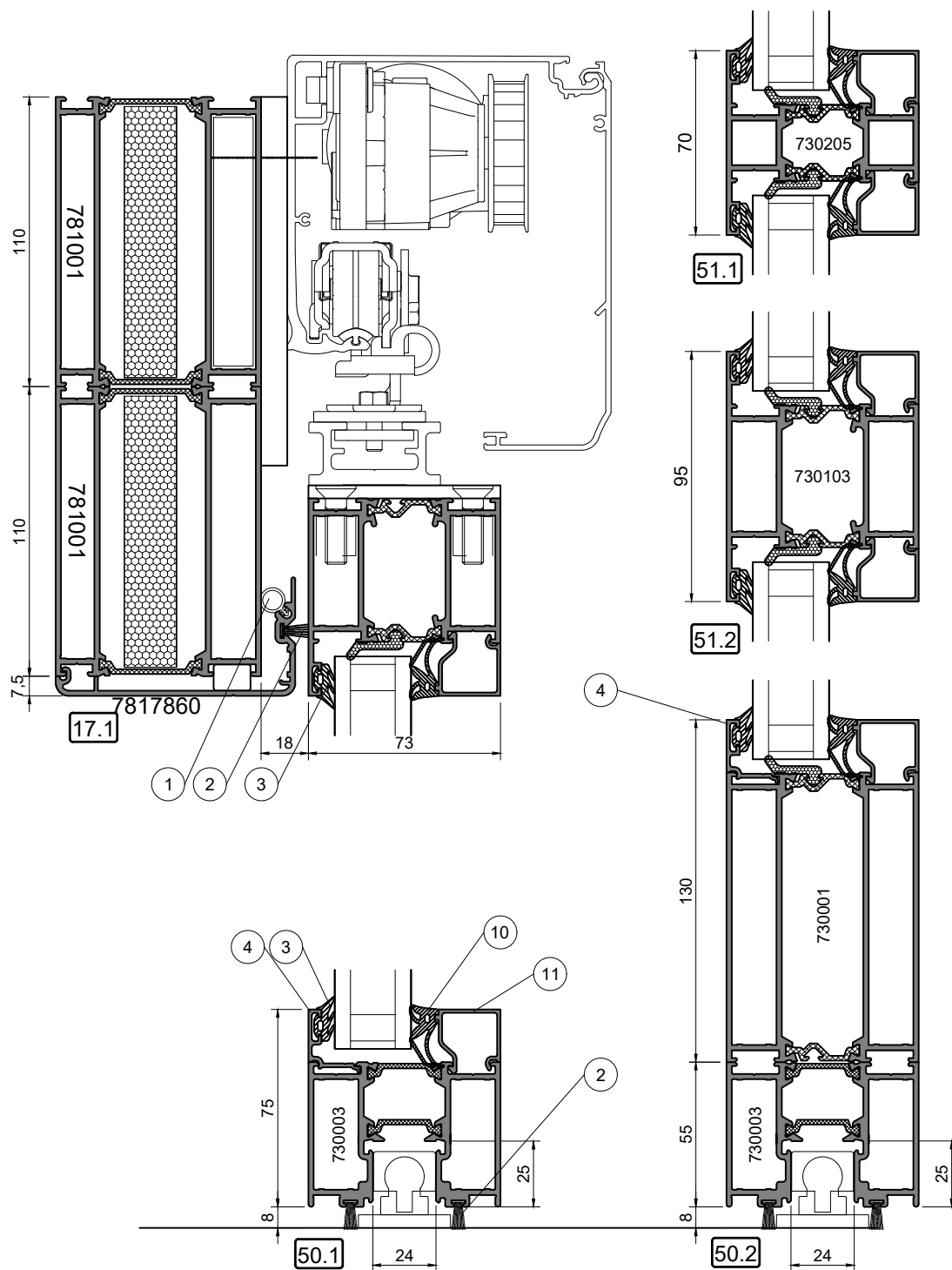


1	Eristelevy Insulation strip	PUR20x13 □ 3.6	4	Eristelevy Insulation strip	PUR20x93 □ 3.6	10	Sisäpuolen lasitustiiviste Inside glazing gasket	Ecoxxx □ 10.2,10.3.3
2	Eristelevy Insulation strip	PUR20x37 □ 3.6	5	Kyntetilan tiiviste Rebate sealing	PE2 □ 10.3.2	11	Lasituslista Glazing strip	□ 10.2,10.3.3
3	Eristelevy Insulation strip	PUR20x73 □ 3.6	6	Ulkopuolen lasitustiiviste Exterior glazing gasket	DX783 □ 10.3.1			

LK78X OVEN ALAREUNA
LK78X BOTTOM OF THE DOOR


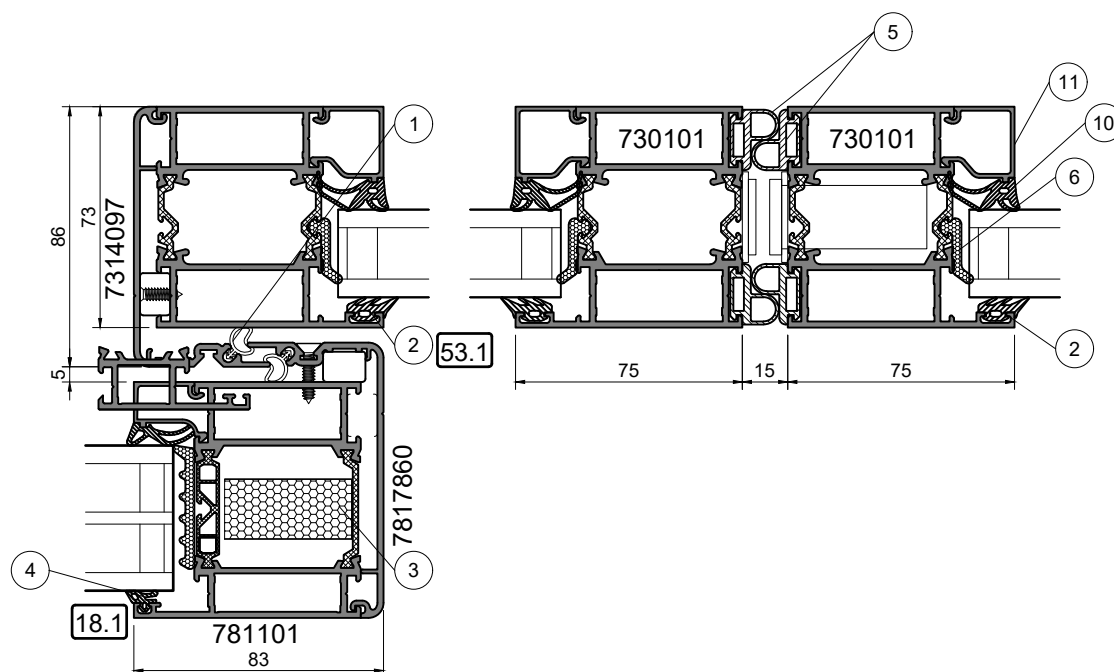
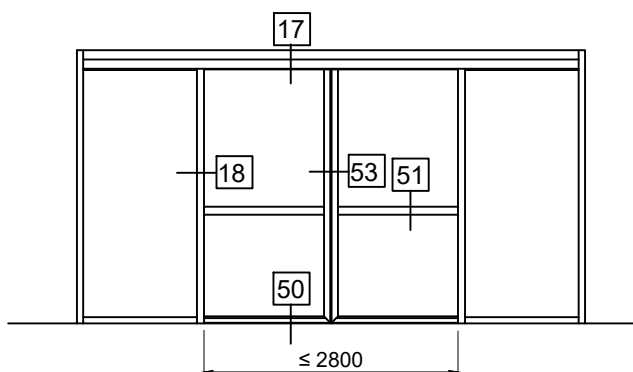
①	Ulkopuolen lasitustiiviste Exterior glazing gasket	DX783 10.3.1
②	Suojahattu Cover cap	SH1* 7.10.1
③	Harjatiiviste Brush gasket	HT1 8.6.4
④	Huullostiiviste Lip gasket	DX781 8.6.2
⑩	Sisäpuolen lasitustiiviste Inside glazing gasket	Ecoxxx 10.2,10.3.3
⑪	Lasituslista Glazing strip	10.2,10.3.3

LIUKUOVI
SLIDING DOOR

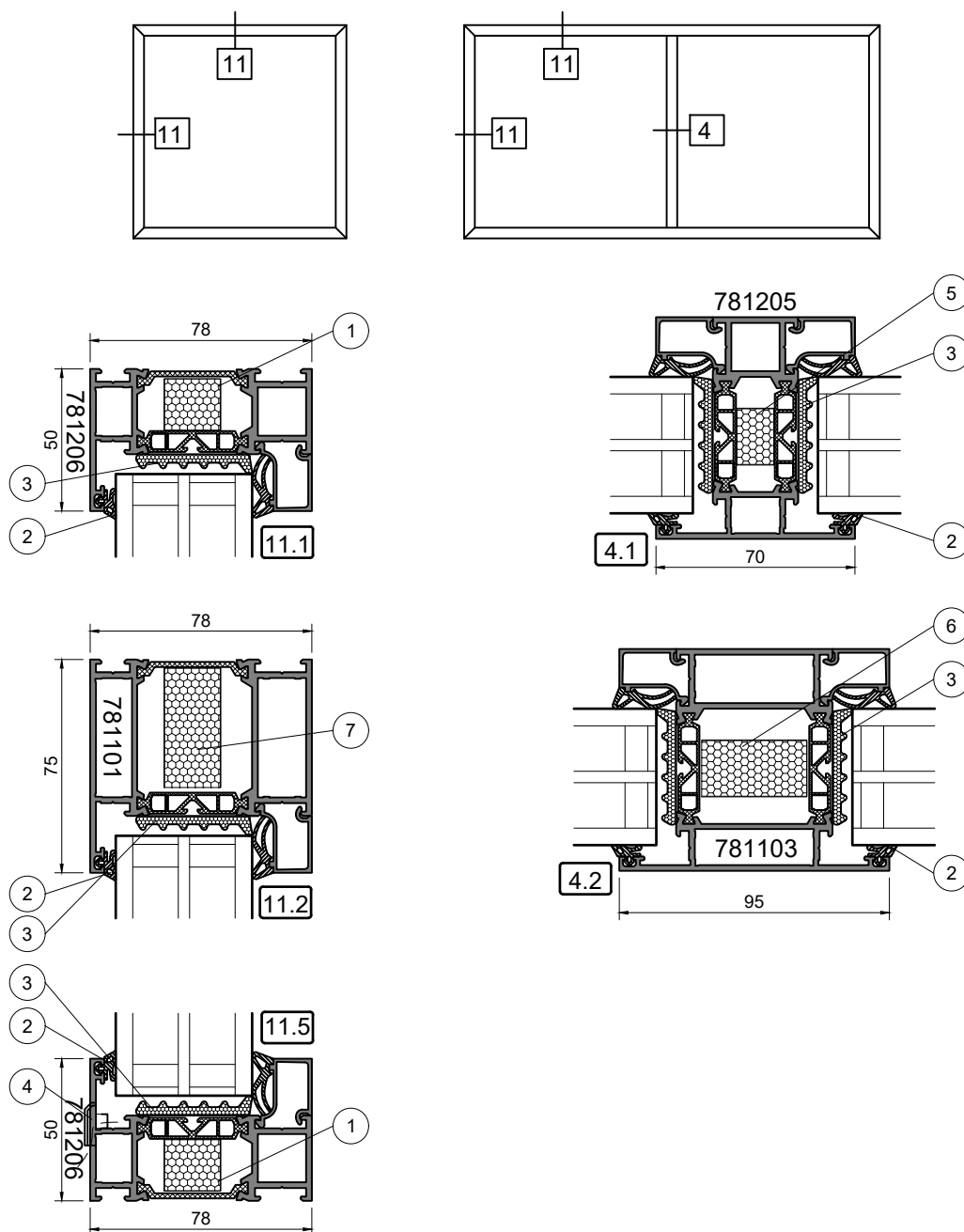


① Liukuoven reunatiiviste DX733 Sliding door corner sealing	③ Lasitustiiviste PX Exterior glazing gasket	⑩ Sisäpuolen lasitustiiviste Ecoxxx Inside glazing gasket
② Harjatiiviste HT1 Brush gasket	④ Lasilista 5 mm 13565 Glazing bead 5 mm	⑪ Lasituslista Glazing strip

LIUKUOVI SLIDING DOOR

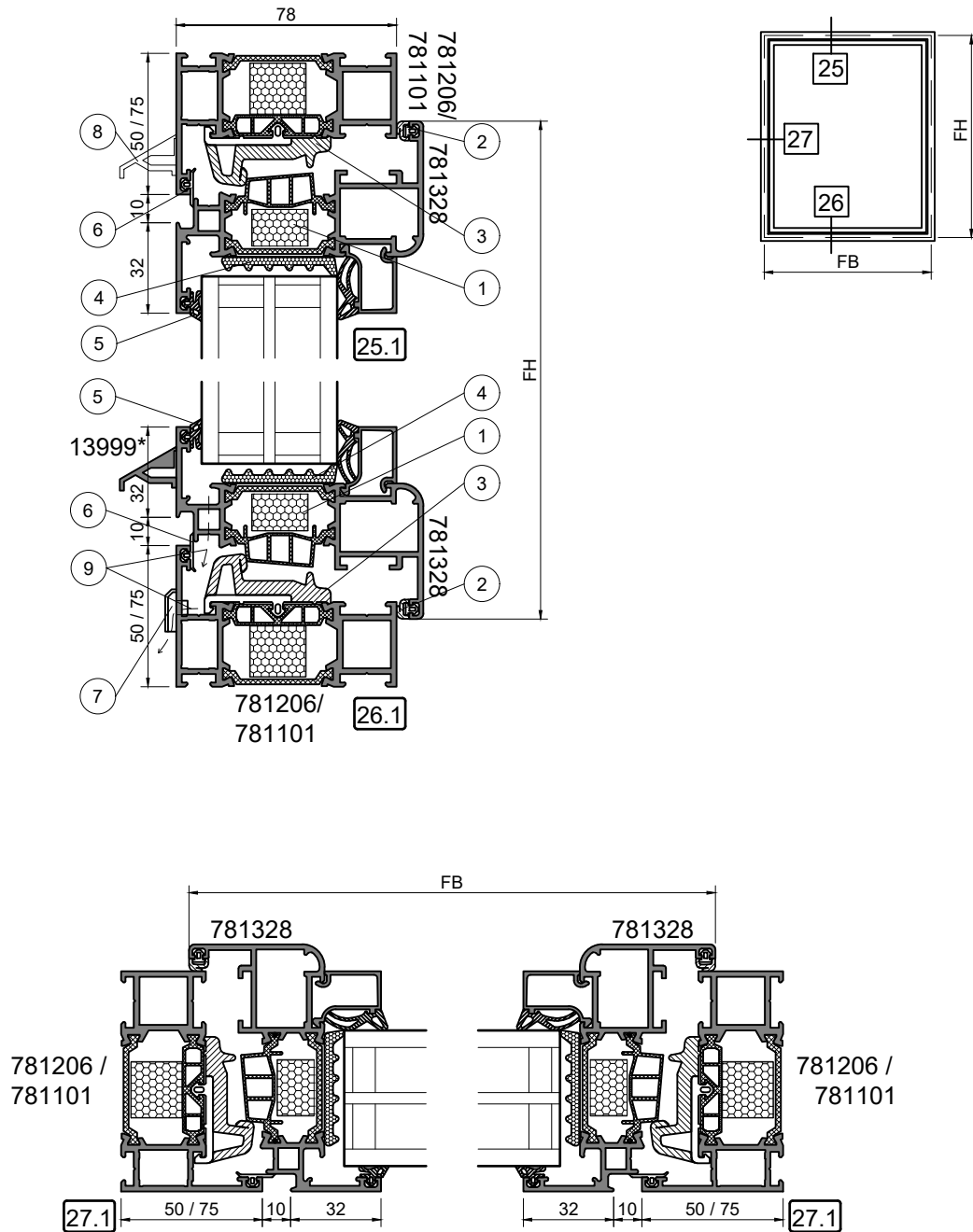


① Liukuoven reunatiiviste DX733 Sliding door corner sealing 	④ Ulkopuolen lasitustiiviste DX783 Exterior glazing gasket  10.3.1	⑩ Sisäpuolen lasitustiiviste Ecoxxx Inside glazing gasket 
② Lasitustiiviste PX Glazing gasket 	⑤ Liukuoven keskitiiviste LOT3 Sliding door middle sealing 	⑪ Lasituslista Glazing strip 
③ Eristelevy PUR20x42 Insulation strip  3.6	⑥ Kyntetilan tiiviste PE1 Rebate sealing 	

LK78X KIINTEÄ IKKUNA
LK78X FIXED WINDOW


1	Eristelevy Insulation strip	PUR20x18 □ 3.6	4	Suojahattu Cover cap	SH* □ 7.9.1	7	Eristelevy Insulation strip	PUR20x42 □ 3.6
2	Ulkopuolen lasitustiiviste Exterior glazing gasket	DX783 □ 10.3.1	5	Eristelevy Insulation strip	PUR20x13 □ 3.6			
3	Kyntetilan tiiviste Rebate sealing	PE2 □ 10.3.2	6	Eristelevy Insulation strip	PUR20x37 □ 3.6			

LK78X SISÄÄNAUKEAVA IKKUNA. PUIITE 781328
LK78X INWARD OPENING WINDOW. SASH 781328

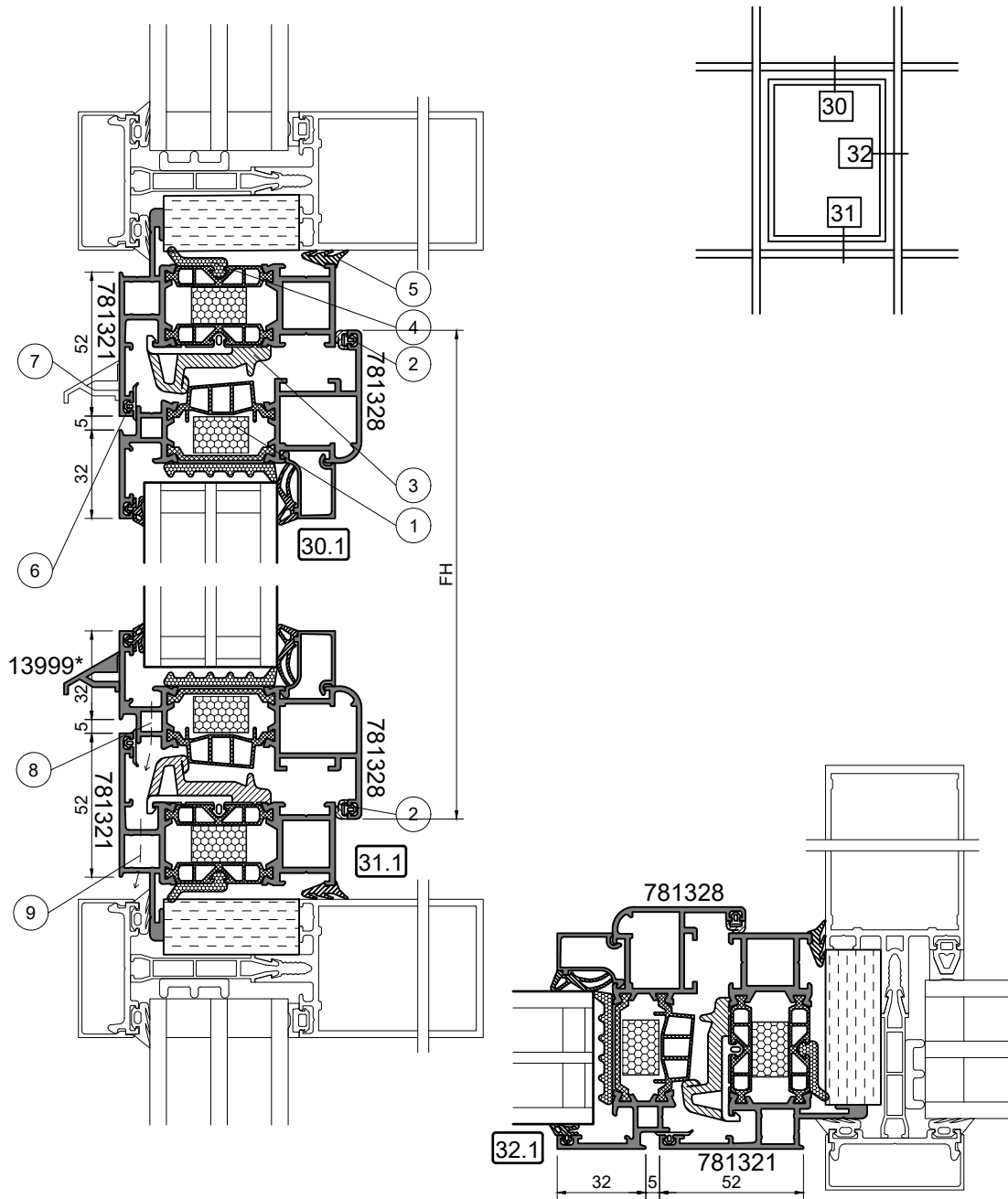


①	Eristelevy Insulation strip	PUR20x13 □ 3.6	④	Kyntetilan tiiviste Rebate sealing	PE2 □ 10.3.2	⑦	Suojahattu Cover cap	SH* □ 7.7.3
②	Huullostiiviste Window rebate sealing	IT511 □	⑤	Ulkopuolen lasitustiiviste Exterior glazing gasket	DX783 □ 10.3.1	⑧	Tippalista ruuviuralla Drop mould	13999* □
③	Ikkunan päätiiviste Main sealing for window	PT781 □ 8.6.1	⑥	Ulkopuolen huullostiiviste Rebate sealing for window	DX782 □	⑨	Tuuletus Ventilation	□ 7.7.2

1	Eristelevy Insulation strip	PUR20x42 📖 3.6	4	Tippalista ruuviuralla Drop mould	13999* 📖	9	Tuuletus Ventilation 📖 7.7.2
2	Huullostiiviste Window rebate sealing	IT511 📖	5	Ulkopuolen huullostiiviste Rebate sealing for window	DX782 📖		
3	Ikkunan päätiiviste Main sealing for window	PT781 📖 8.6.1	6	Suojahattu Cover cap	SH* 📖 7.7.3		

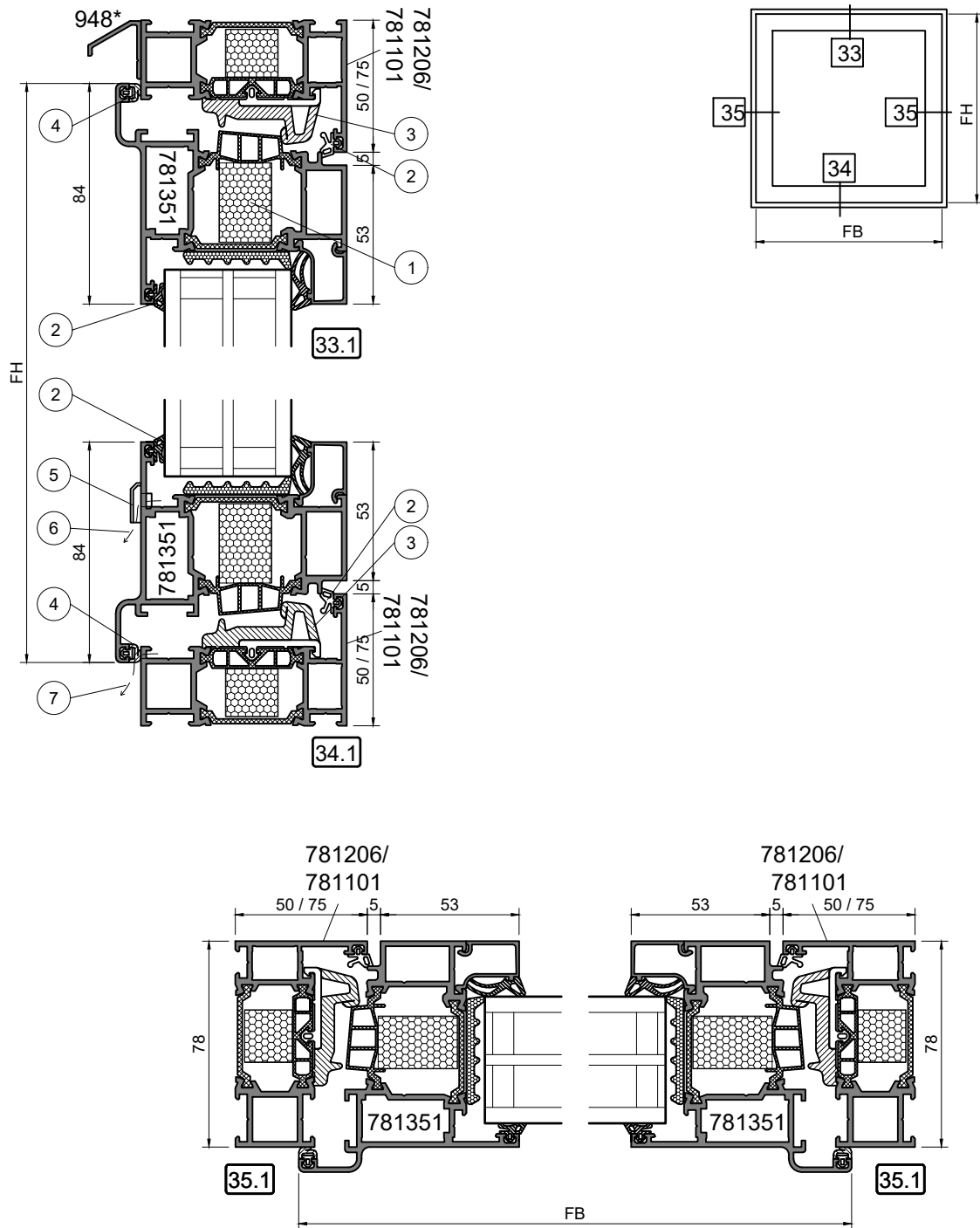
1	Eristelevy Insulation strip	PUR20x13 📖 3.6	4	Kyntetilan tiiviste Rebate sealing	PE2 📖	7	Suojahattu Cover cap	SH* 📖 7.7.3
2	Huullostiiviste Window rebate sealing	IT511 📖	5	Ulkopuolen lasitustiiviste Exterior glazing gasket	DX783 📖 10.3.1	8	Tippalista Drop mould	13999* 📖
3	Ikkunan päätiiviste Main sealing for window	PT781 📖 8.6.1	6	Ulkopuolen huullostiiviste Rebate sealing for window	DX782 📖	9	Tuuletus Ventilation	📖 7.7.2

LK78X SISÄÄNAUKEAVA IKKUNA P50L JULKISIVUSSA
LK78X INWARD OPENING WINDOW IN P50L FASADE



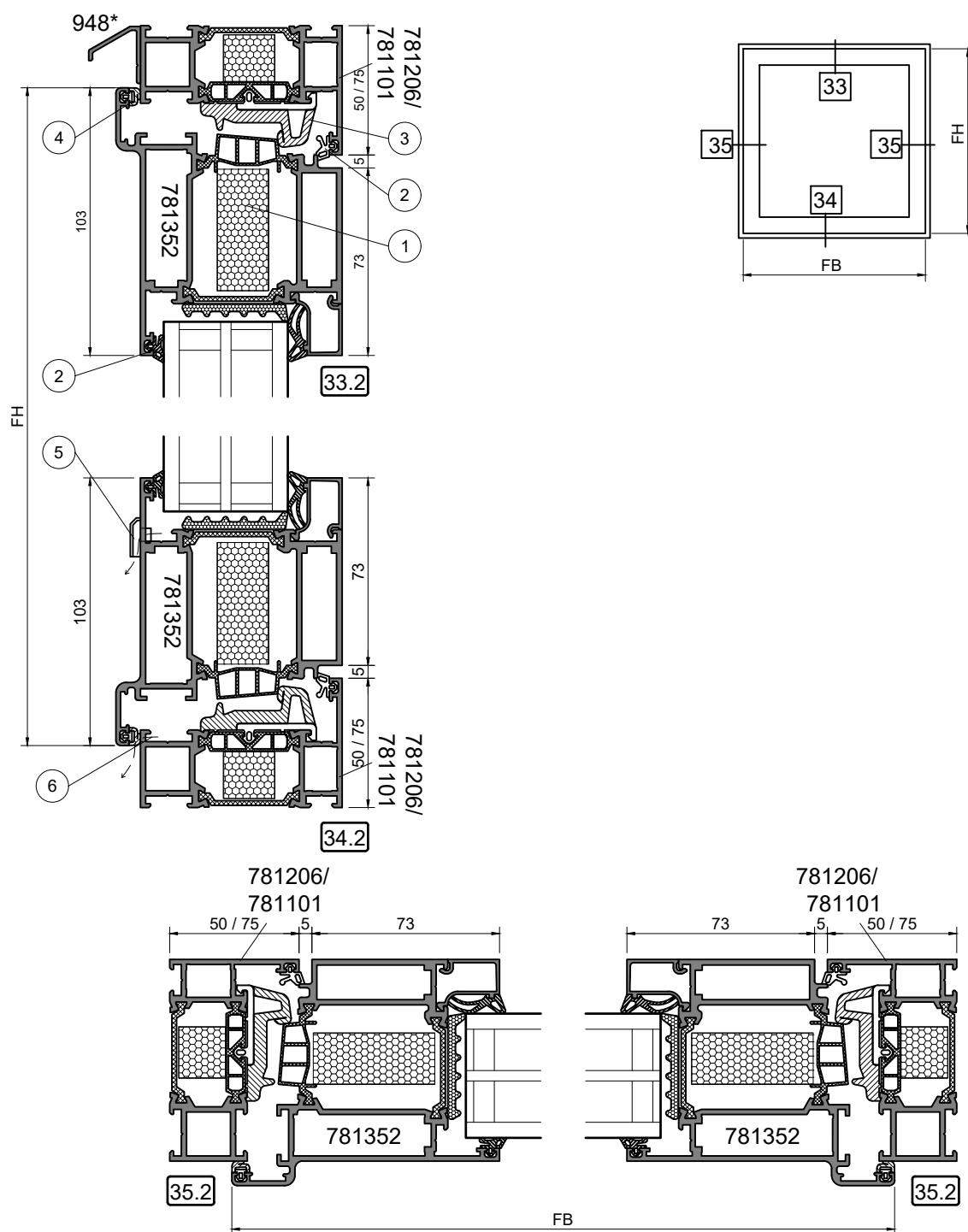
1	Eristelevy Insulation strip	PUR20x13 □ 3.6	4	Kyntetilan tiiviste Rebate sealing	PE1 □	7	Tippalista Drop mould	13999* □
2	Huullostiiviste Window rebate sealing	IT511 □	5	Lasitustiiviste Glazing sealing	PX □	8	Tuuletus Ventilation	□ 7.7.2
3	Ikkunan päätiiviste Main sealing for window	PT781 □ 8.6.1	6	Ulkopuolen huullostiiviste Rebate sealing for window	DX782 □	9	Tuuletus Ventilation	□ 7.7.4

LK78X ULOSAUKEAVA IKKUNA. PUITE 781351
LK78X OUTWARD OPENING WINDOW. SASH 781351



①	Eristelevy Insulation strip	PUR20x13 □ 3.6	④	Huullostiiviste Window rebate sealing	IT511 □	⑦	Tuuletus Ventilation	□ 7.8.1
②	Ulkopuolen lasitustiiviste Exterior glazing gasket	DX783 □	⑤	Suojahattu Cover cap	SH* □ 7.8.2			
③	Ikkunan päätiiviste Main sealing for window	PT781 □ 8.6.1	⑥	Tuuletus Ventilation	□ 7.8.1			

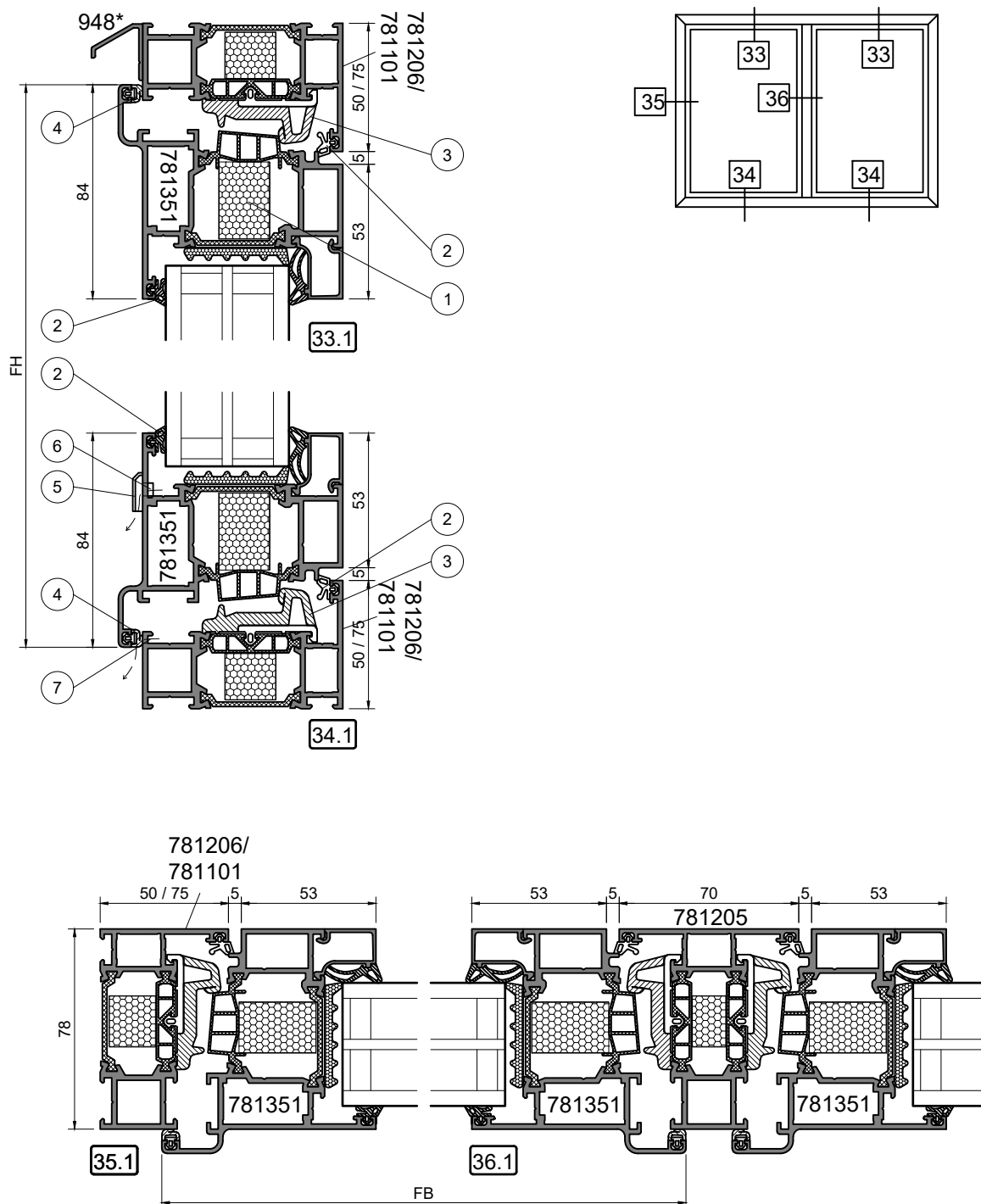
LK78X ULOSAUKEAVA IKKUNA. PUITE 781352
LK78X OUTWARD OPENING WINDOW. SASH 781352



1	Eristelevy Insulation strip	PUR20x47 	4	Huullostiiviste Window rebate sealing	IT511 
2	Ulkopuolen lasitustiiviste Exterior glazing gasket	DX783 	5	Suojahattu Cover cap	SH*  7.8.2
3	Ikkunan päättiiviste Main sealing for window	PT781 	6	Tuuletus Ventilation	 7.8.3

LK78X ULOSAUKEAVA IKKUNA

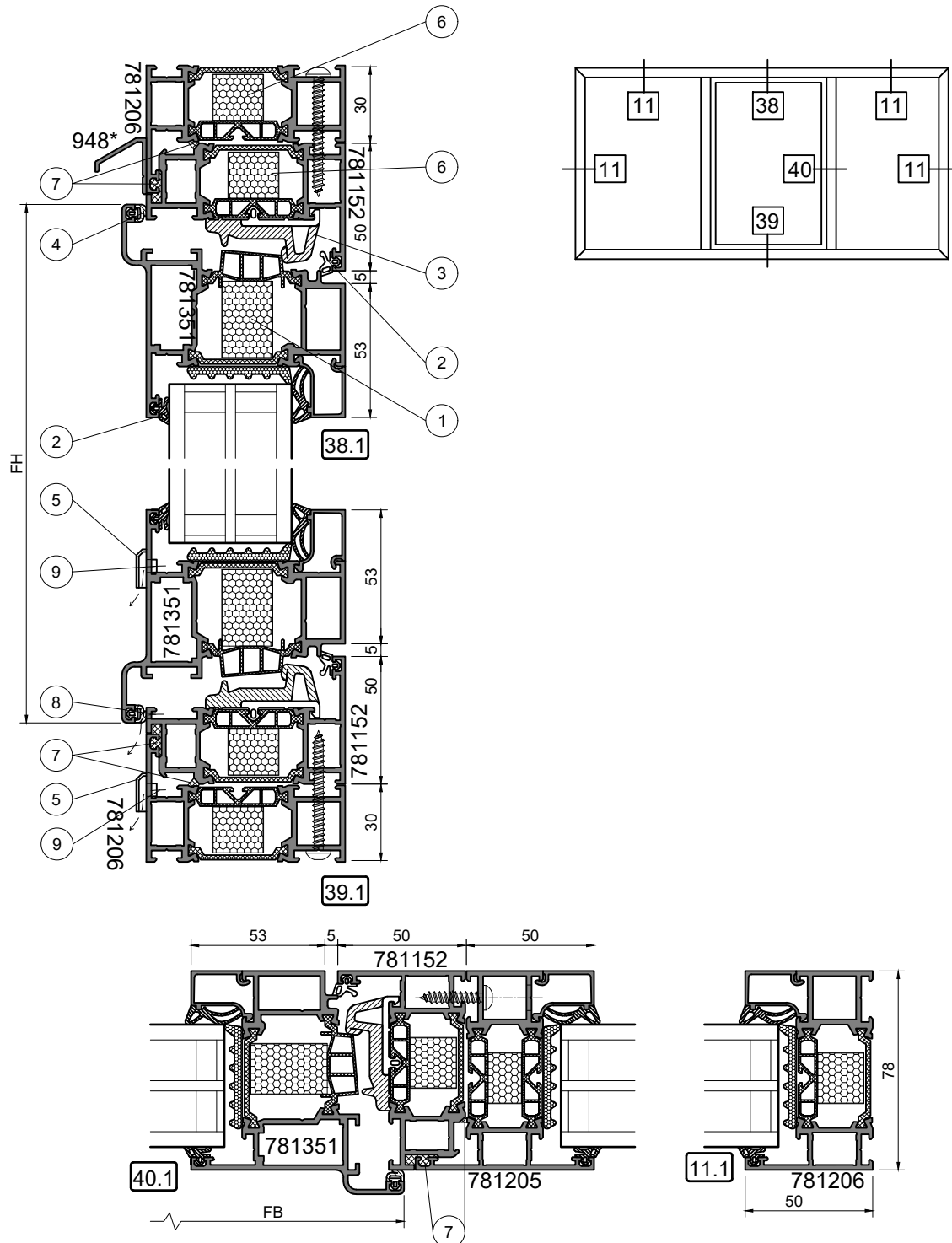
LK78X OUTWARD OPENING WINDOW



①	Eristelevy Insulation strip	PUR20x13 ☐ 3.6	④	Huulostiiviste Window rebate sealing	IT511 ☐	⑦	Tuuletus Ventilation	☐ 7.8.3
②	Ulkopuolen lasitustiiviste Exterior glazing gasket	DX783 ☐	⑤	Suojahattu Cover cap	SH* ☐ 7.8.2			
③	Ikkunan päätiiviste Main sealing for window	PT781 ☐ 8.6.1	⑥	Tuuletus Ventilation	☐ 7.8.3			

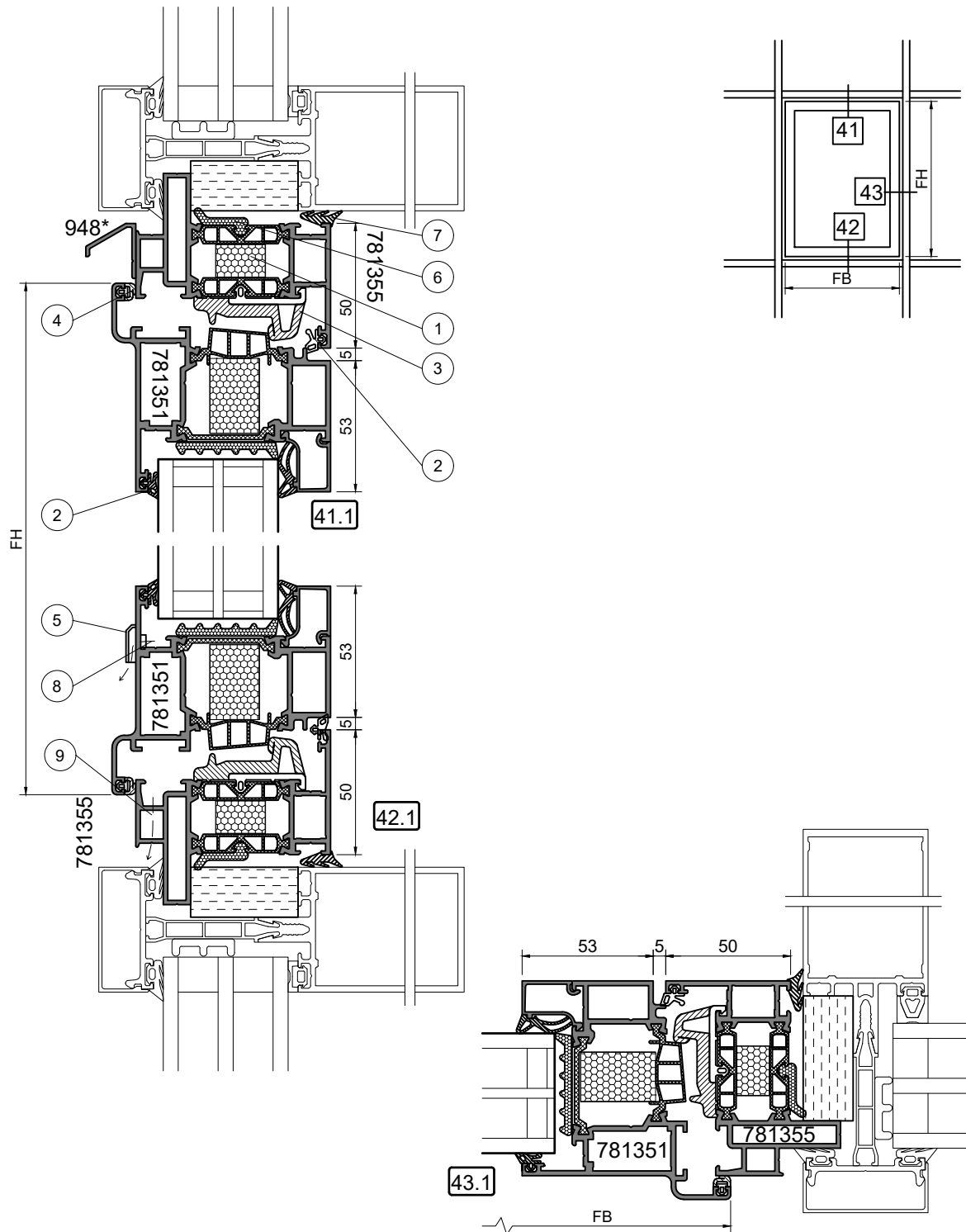
LK78X ULOS AUKEAVA IKKUNA IKKUNANAUHASSA

LK78X OUTWARD OPENING WINDOW IN WINDOW STRIP



1	Eristelevy Insulation strip	PUR20x30 □ 3.6	4	Huullostiiviste Window rebate sealing	IT511 □	7	Tiivistysmassa Sealing compound	□
2	Ulkopuolen lasitustiiviste Exterior glazing gasket	DX783 □	5	Suojahattu Cover cap	SH* □ 7.8.2	8	Tuuletus Ventilation	□ 7.8.3
3	Ikkunan päätiiviste Main sealing for window	PT781 □ 8.6.1	6	Eristelevy Insulation strip	PUR20x18 □ 3.6	9	Tuuletus Ventilation	□ 7.8.2

LK78X ULOSAUKEAVA IKKUNA P50L JULKISIVUSSA LK78X OUTWARD OPENING WINDOW IN P50L FASADE



1	Eristelevy Insulation strip	PUR20x13 3.6	4	Huulostiiviste Window rebate sealing	IT511	7	Lasitustiiviste Glazing sealing	PX
2	Ulkopuolen lasitustiiviste Exterior glazing gasket	DX783	5	Suojahattu Cover cap	SH* 7.8.2	8	Tuuletus Ventilation	7.8.2
3	Ikkunan päätiiviste Main sealing for window	PT781 8.6.1	6	Kyntetilan tiiviste Rebate sealing	PE1	9	Tuuletus Ventilation	7.8.4

LK78X ULOS AUKEAVA 1-LEHTINEN OVIKATKAISUMITAT JA TARVIKELUETTELO LK78X OUTWARD OPENING DOOR, CUTTING MEASURES AND EQUIPMENT LIST

OSA	NIMI KE	PROFIILI	LKM	KATKAISU- PITUUS	SAHAUS- KULMA	KONEISTUS	KOKOONPANO
1a	Pystykarmi	781531	1	H	90 / 45	7.2.1.2	-
1b	Vaakakarmi	781531	1	B	45 / 45	7.2.1.2	-
1c	Pystykarmi	781531	1	H	45 / 90	7.2.1.2	8.2.6
2a	Pystypuite	781532	2	H-70	45 / 45	8.2.2	8.2.2
2b	Vaakapuite	781532	2	B-112	45 / 45	8.2.2	8.2.2
3	Kynnys	781534	1	B-119	90 / 90	8.4.1	8.4.1
4	Väli vaaka	781103 / 781205	1	B-262	90 / 90	7.1.1	8.3.1
5	Lasitus lista	kts. 10.2	-	-	90 / 90	-	10.3.3
6	Umpiosan lasitus lista	kts. 10.2	-	-	90 / 90	-	10.3.3
7	Harjatiivisteprofiili	18538	1	B-143	90 / 90	8.6.4	8.6.4
9	Tippalista tarvittaessa	948	1	B-50	90 / 90	-	-

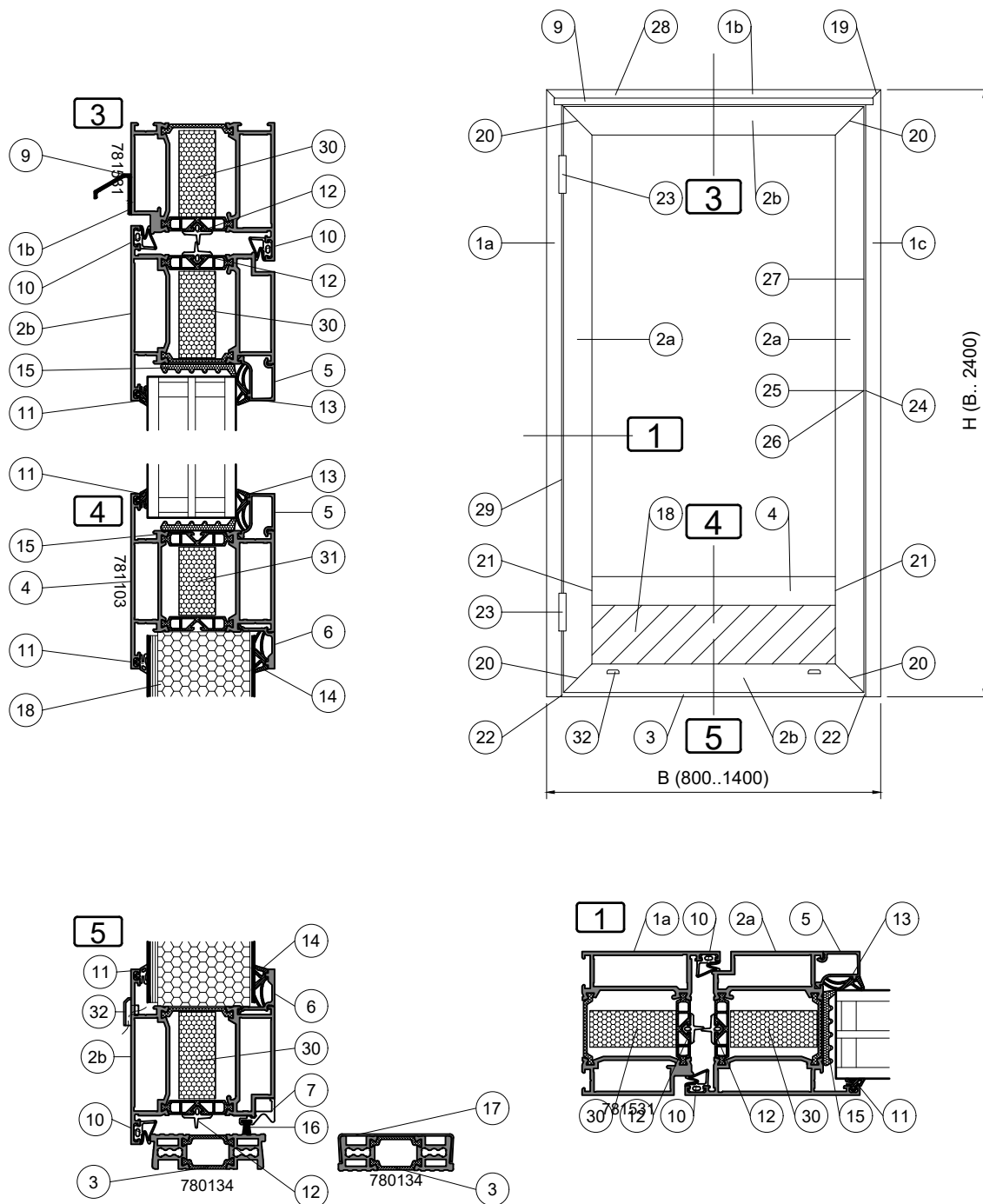
OSA	TARVIKKEET	TYYPPI	LKM	HUOM!	KONEISTUS	KOKOON- PANO
10	Huullos tiiviste	DX781	-	-	-	8.6.2
11	Ulkopuolen lasitustiiviste	DX783	-	-	-	10.3.1
12	Keskitiiviste	DX787	-	-	-	-
13	Sisäpuolen lasitustiiviste	kts. 10.2	-	Eco-tiiviste lasiosille	-	10.3.3
14	Sisäpuolen lasitustiiviste	kts. 10.2	-	PX-tiiviste umpiosille	-	10.3.3
15	Kyntetilan tiiviste	PE2	-	-	-	10.3.2
16	Harjatiiviste	HT1	-	-	-	8.6.4
17	RST-kynnys peite	780134/RST	-	Tarvittaessa	-	-
18	Umpiosa	kts. 10.2	-	-	-	-
19	Jiiriliitos kpl/ karmi	78JL530	2	-	3.2.7	8.2.2
20	Jiiriliitos kpl/ ovilehti	78JL532	4	-	3.2.7	8.2.2
21	T-liitos kappale	78TL103/ 78TL205	2	2kpl/ väli vaaka	3.2.6	8.3.1
22	Kynnyksen kiinnitys ruuvit	kts. 8.4.5	4	-	-	8.4.5
23	Saranat	-	2-3	-	7.4.1.X	-
24	Lukon vastaraudan aluslevy	78 / 21	1-2	1kpl/ väli vaaka	7.4.3.4	8.7.2.1
25	Haarautuva sisäkierreniitti	78H / 10	2-4	2kpl/ lukko	-	8.7.1
26	Käyttölukko	-	1	Lukituksen mukaan	7.4.2.X	8.7.1
27	Varmuuslukko	-	1	Lukituksen mukaan	7.4.2.X	8.7.1
28	Ovensuljin	-	1	Tarvittaessa	-	8.7.4
29	Ylivientisuoja	-	1	Lukituksen mukaan	7.4.7.2	7.4.7.2
30	Eriste levy	PUR20x47	-	-	-	-
31	Eriste levy	PUR20x37/ PUR20x13	-	-	-	-
32	Suojahattu (tarvittaessa)	SH	2	-	7.10.1 7.10.2	-

LK78X ULOS AUKEAVA OVI, KATKAISUMITAT JA TARVIKELUETTELO LK78X OUTWARD OPENING DOOR, CUTTING MEASURES AND EQUIPMENT LIST

PART	ITEM	PROFILE	PCS	CUT LENGTH	SAWING ANGLE	MACHINING	ASSEMBLY
1a	Vertical frame	781531	1	H	90 / 45	7.2.1.2	-
1b	Horizontal frame	781531	1	B	45 / 45	7.2.1.2	-
1c	Vertical frame	781531	1	H	45 / 90	7.2.1.2	8.2.6
2a	Vertical sash	781532	2	H-70	45 / 45	8.2.2	8.2.2
2b	Horizontal sash	781532	2	B-112	45 / 45	8.2.2	8.2.2
3	Threshold	781534	1	B-119	90 / 90	8.4.1	8.4.1
4	Intermediate horizontal bar	781103 / 781205	1	B-262	90 / 90	7.1.1	8.3.1
5	glazing bead	see 10.2	-	-	90 / 90	-	10.3.3
6	Infill glazing bead	see 10.2	-	-	90 / 90	-	10.3.3
7	Brush gasket profile	18538	1	B-143	90 / 90	8.6.4	8.6.4
9	Drop list (if needed)	948	1	B-50	90 / 90	-	-

PART	ACCESSORIES	TYPE	PCS	NOTE!	MACHINING	ASSEMBLY
10	Lip gasket	DX781	-	-	-	8.6.2
11	Exterior glazing gasket	DX783	-	-	-	10.3.1
12	Middle gasket	DX787	-	-	-	-
13	Inner glazing gasket	see 10.2	-	Eco-gasket for glazing	-	10.3.3
14	Inner glazing gasket	see 10.2	-	PX-gasket for infill panel	-	10.3.3
15	Rebate sealing	PE2	-	-	-	10.3.2
16	Brush gasket	HT1	-	-	-	8.6.4
17	S/S-threshold cover	780134/RST	-	If needed	-	-
18	Infill panel	see 10.2	-	-	-	-
19	Mitre joint piece / frame	78JL530	2	-	3.2.7	8.2.2
20	Mitre joint piece / door leaf	78JL532	4	-	3.2.7	8.2.2
21	T-joint piece	78TL103/ 78TL205	2	2 pcs/ intermediate horizontal bar	3.2.6	8.3.1
22	Threshold fastening screws	see 8.4.5	4	-	-	8.4.5
23	Hinges	-	2-3	-	7.4.1.X	-
24	Lock striking plate washer	78 / 21	1-2	1 pcs/ striking plate	7.4.3.4	8.7.2.1
25	Special rivet	78H / 10	2-4	2 pcs/ lock	-	8.7.1
26	Mortise lock	-	1	Acc. to locking	7.4.2.X	8.7.1
27	Security lock	-	1	Acc. to locking	7.4.2.X	8.7.1
28	Door closer	-	1	If needed	-	8.7.4
29	Lead cover	-	1	Acc. to locking	7.4.7.2	7.4.7.2
30	Insulation strip	PUR20x47	-	-	-	-
31	Insulation strip	PUR20x37/ PUR20x13	-	-	-	-
32	Cover cap (if needed)	SH	2	-	7.10.1 7.10.2	-

LK78X ULOSAUKEAVA 1-LEHTINEN OVI, TARVIKEDETALJIT LK78X OUTWARD OPENING DOOR, EQUIPMENT DETAILS



LK78X ULOS AUKEAVA PARIOVI, KATKAISUMITAT JA TARVIKELUETTELO LK78X OUTWARD OPENING, CUTTING, MEASURES AND EQUIPMENT LIST

OSA	NIMI KE	PROFIILI	LKM	KATKAISU- PITUUS	SAHAUS- KULMA	KONEIS- TUS	KOKOON- PANO
1a	Pystykarmi	781531	1	H	90 / 45	7.2.1.2	-
1b	Vaakakarmi	781531	1	B	45 / 45	7.2.1.2	-
1c	Pystykarmi	781531	1	H	45 / 90	8.2.6	8.2.6
2a	Pystypuite	781532	3	H-70	45 / 45	8.2.2	8.2.2
2b	Vaakapuite	781532	2	B-D-118	45 / 45	8.2.2	8.2.2
2c	Vaakapuite	781532	2	B-C-93	45 / 45	8.2.2	8.2.2
3	Kynnys	781534	1	B-119	90 / 90	8.4.1	8.4.1
4a	Väli vaaka	781103 / 781205	1	C-150	90 / 90	7.1.1	8.3.1
4b	Väli vaaka	781103 / 781205	1	D-125	90 / 90	7.1.1	8.3.1
5	Lasitus lista	kts. 10.2	-	-	90 / 90	-	10.3.3
6	Umpiosan lasitus lista	kts. 10.2	-	-	90 / 90	-	10.3.3
7	Harjatiivisteprofiili	18538	2	C-31, D	90 / 90	8.6.4 8.6.5	8.6.4 8.6.5
8	Kääntöpuite	781530	1	H-70	45 / 45	8.2.8	8.2.8
9	Tippalista (tarvittaessa)	948	1	B-50	90 / 90		

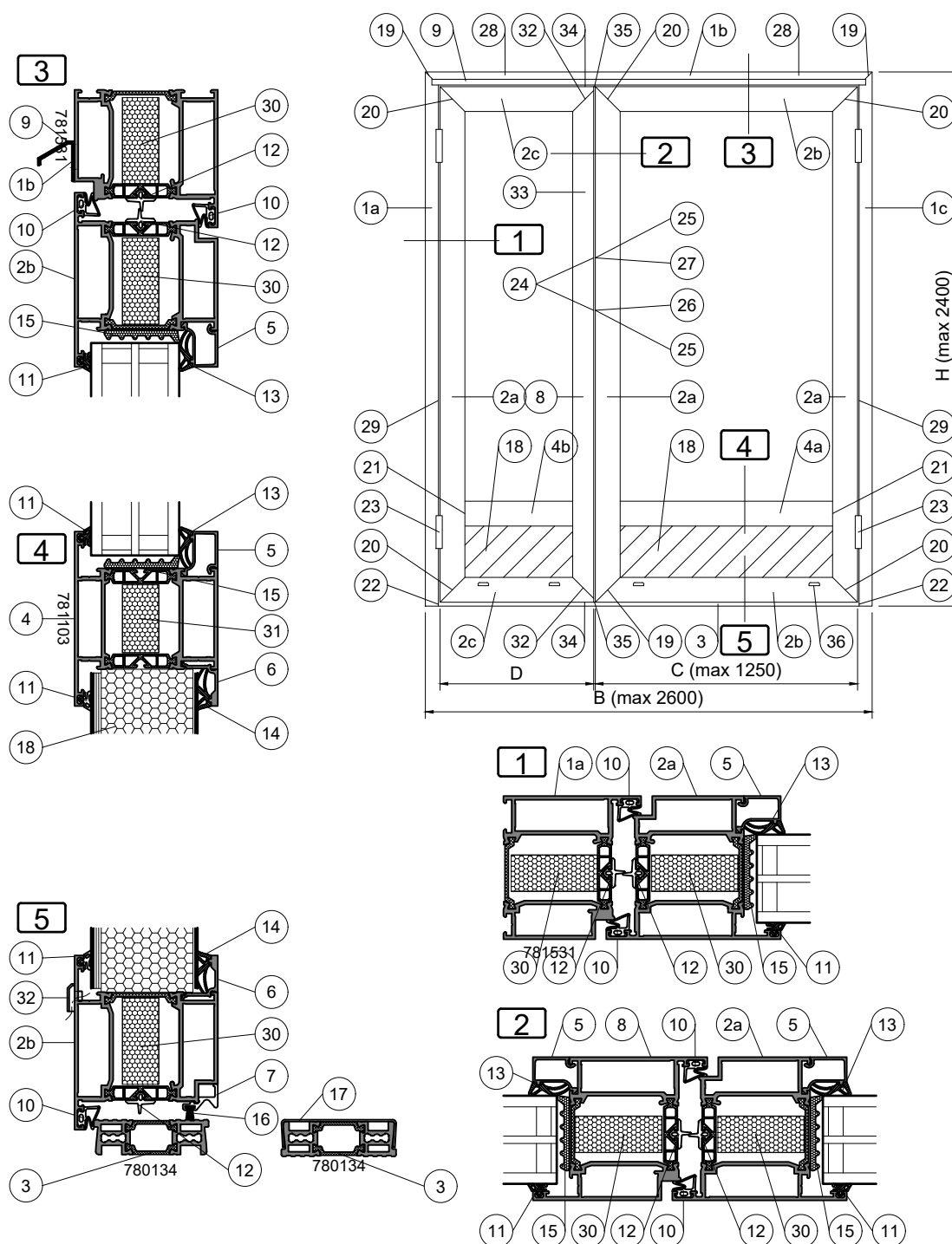
OSA	TARVIKKEET	TYYPPI	LKM	HUOM!	KONEISTUS	KOKOON- PANO
10	Huullos tiiviste	DX781	-	-	-	8.6.2
11	Ulkopuolen lasitus tiiviste	DX783	-	-	-	10.3.1
12	Keskittiiviste	DX787	-	-	-	-
13	Sisäpuolen lasitus tiiviste	kts. 10.2	-	Eco-tiiviste lasiosille	-	10.3.3
14	Sisäpuolen lasitus tiiviste	kts. 10.2	-	PX-tiiviste umpiosille	-	10.3.3
15	Kyntetilan tiiviste	PE2	-	-	-	10.3.2
16	Harjatiiviste	HT1	-	-	-	8.6.4-8.6.5
17	RST-kynnykspeite	780134/RST	-	-	-	-
18	Umpiosa	kts. 10.2	-	-	-	-
19	Jiiriliitoskpl/ karmi	78JL530	2	-	3.2.7	8.2.3
20	Jiiriliitoskpl/ ovilehti	78JL532	6	-	3.2.7	8.2.3
21	T-liitoskappale	78TL103/ 78TL205	4	2kpl/ väli vaaka	3.2.6	8.3.1
22	Kynnyksen kiinnitysruuvit	kts. 8.4.1	4	-	-	8.4.1
23	Saranat	-	4-6	-	7.4.1.X	-
24	Lukon vastaraudan aluslevy	78 / 21	1-2	1kpl/ väli vaaka	7.4.3.4	8.7.2.1
25	Haarautuva sisäkierroniitti	78H / 10	2-4	2kpl/ lukko	-	8.7.1
26	Käyttölukko	-	1	-	7.4.2.X	8.7.1
27	Varmuuslukko	-	1	-	7.4.2.X	8.7.1
28	Ovensuljin	-	1-2	-	-	8.7.4
29	Ylivientisuoja	-	1-2	-	7.4.7.2	7.4.7.2
30	Eristelevy	PUR20x47	-	-	-	-
31	Eristelevy	PUR20x37/ PUR20x13	-	-	-	-
32	Jiiriliitoskpl/ kääntöpuite	78JL530-532	2	-	3.2.7	8.2.3
33	Pikasalpa	-	1	-	7.4.5.4	7.4.5.4
34	Pikasalvan hela	78H/30	2	-	7.4.6.X	7.4.6.X
35	Parioven tiivistyskappale	78TK2	3	-	-	8.2.3
36	Suojahattu (tarvittaessa)	SH	4	-	7.10.1 7.10.2	-

LK78X OUTWARD OPENING DOOR CUTTING MEASURES AND EQUIPMENT LIST

PART	ITEM	PROFILE	PCS	CUT LENGTH	SAWING- ANGLE	MACHI- NING	ASSEMBLY
1a	Vertical frame	781531	1	H	90 / 45	7.2.1.2	-
1b	Horizontal frame	781531	1	B	45 / 45	7.2.1.2	-
1c	Vertical frame	781531	1	H	45 / 90	8.2.6	8.2.6
2a	Vertical sash	781532	3	H-70	45 / 45	8.2.2	8.2.2
2b	Horizontal sash	781532	2	B-D-118	45 / 45	8.2.2	8.2.2
2c	Horizontal sash	781532	2	B-C-93	45 / 45	8.2.2	8.2.2
3	Threshold	781534	1	B-119	90 / 90	8.4.1	8.4.1
4a	Intermediate horizontal bar	781103 / 781205	1	C-150	90 / 90	7.1.1	8.3.1
4b	Intermediate horizontal bar	781103 / 781205	1	D-125	90 / 90	7.1.1	8.3.1
5	glazing bead	see 10.2	-	-	90 / 90	-	10.3.3
6	Infill glazing bead	see 10.2	-	-	90 / 90	-	10.3.3
7	Brush gasket profile	18538	2	C-31, D	90 / 90	8.6.4 8.6.5	8.6.4 8.6.5
8	Turnable sash	781530	1	H-70	45 / 45	8.2.8	8.2.8
9	Drop list (if needed)	948	1	B-50	90 / 90		

PART	ACCESSORIES	TYPE	PCS	NOTE!	MACHINING	ASSEMBLY
10	Lip gasket	DX781	-	-	-	8.6.2
11	Exterior glazing gasket	DX783	-	-	-	10.3.1
12	Middle gasket	DX787	-	-	-	-
13	Inner glazing gasket	see 10.2	-	eco-gasket for glazing	-	10.3.3
14	Inner glazing gasket	see 10.2	-	PX-gasket for infill panel	-	10.3.3
15	Rebate sealing	PE2	-	-	-	10.3.2
16	Brush gasket	HT1	-	-	-	8.6.4-8.6.5
17	S/S-threshold cover	780134/RST	-	-	-	-
18	Infill panel	see 10.2	-	-	-	-
19	Mitre joint piece / frame	78JL530	2	-	3.2.7	8.2.3
20	Mitre joint piece / door leaf	78JL532	6	-	3.2.7	8.2.3
21	T-joint piece	78TL103/ 78TL205	4	2 pcs/ horizontal bar	3.2.6	8.3.1
22	Threshold fastening screws	see 8.4.1	4	-	-	8.4.1
23	Hinges	-	4-6	-	7.4.1.X	-
24	Lock striking plate washer	78 / 21	1-2	1 pcs/ striking plate	7.4.3.4	8.7.2.1
25	Special rivet	78H / 10	2-4	2 pcs/ lock	-	8.7.1
26	Mortise lock	-	1	-	7.4.2.X	8.7.1
27	Security lock	-	1	-	7.4.2.X	8.7.1
28	Door closer	-	1-2	-	-	8.7.4
29	Lead cover	-	1-2	-	7.4.7.2	7.4.7.2
30	Insulation strip	PUR20x47	-	-	-	-
31	Insulation strip	PUR20x37/ PUR20x13	-	-	-	-
32	Mitre joint piece	78JL530-532	2	-	3.2.7	8.2.3
33	Quick bolt	-	1	-	7.4.5.4	7.4.5.4
34	Quick bolt hardware	78H/30	2	-	7.4.6.X	7.4.6.X
35	Double door sealing piece	78TK2	3	-	-	8.2.3
36	Cover cap (if needed)	SH	4	-	7.10.1 7.10.2	-

LK78X ULOSAUKEAVA PARIOVI, TARVIKEDETALJIT
LK78X OUTWARD OPENING DOOR, EQUIPMENT DETAILS



LK78X SISÄÄN AUKEAVA 1-LEHTINEN OVI, KATKAISUMITAT JA TARVIKELUETTELO

LK78X INWARD OPENING, MEASURES AND EQUIPMENT LIST

OSA	NIMIKE	PROFIILI	LKM	KATKAISU- PITUUS	SAHAUS- KULMA	KONEIS- TUS	KOKOON- PANO
1a	Pystykarmi	781536	1	H	90 / 45	7.2.1.2	-
1b	Vaakakarmi	781536	1	B	45 / 45	7.2.1.2	-
1c	Pystykarmi	781536	1	H	45 / 90	7.2.1.2	-
2a	Pystypuite	781530	2	H-88	45 / 45	7.2.1.1	-
2b	Vaakapuite	781530	2	B-152	45 / 45	7.2.1.1	-
3	Kynnys	780134	1	B-159	90 / 90	7.3.1	-
4	Väliwaaka	781103 / 781205	1	B-302	90 / 90	7.1.1	8.3.1
5	Lasituslista	kts. 10.2	-	-	90 / 90	-	10.3.3
6	Umpiosan lasituslista	kts. 10.2	-	-	90 / 90	-	10.3.3
9	Tippalista tarvittaessa	948	1	B-202	90 / 90	-	-

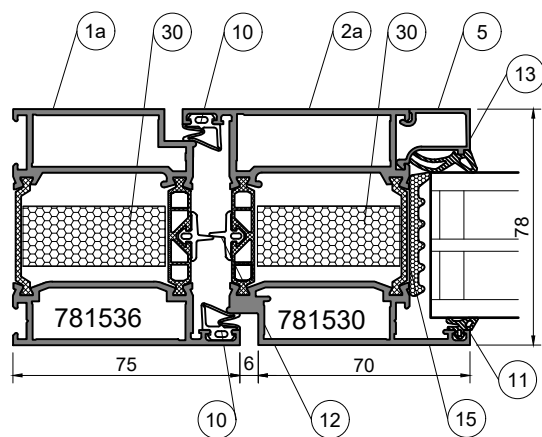
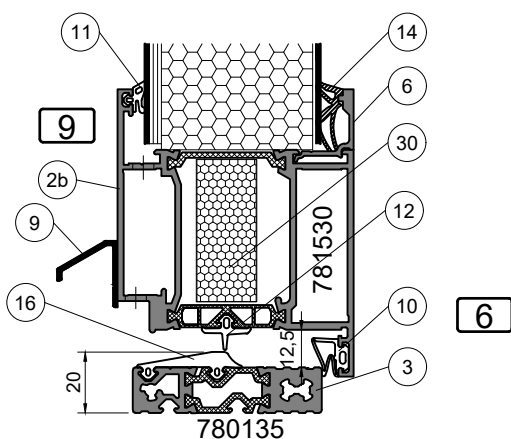
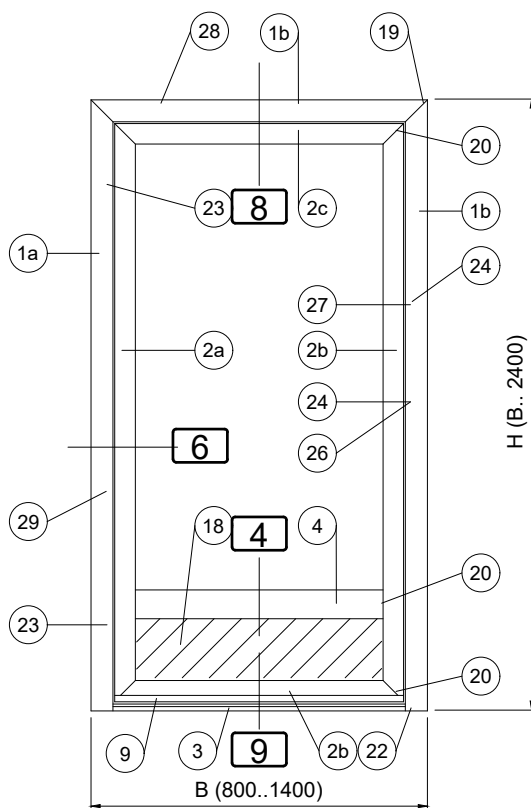
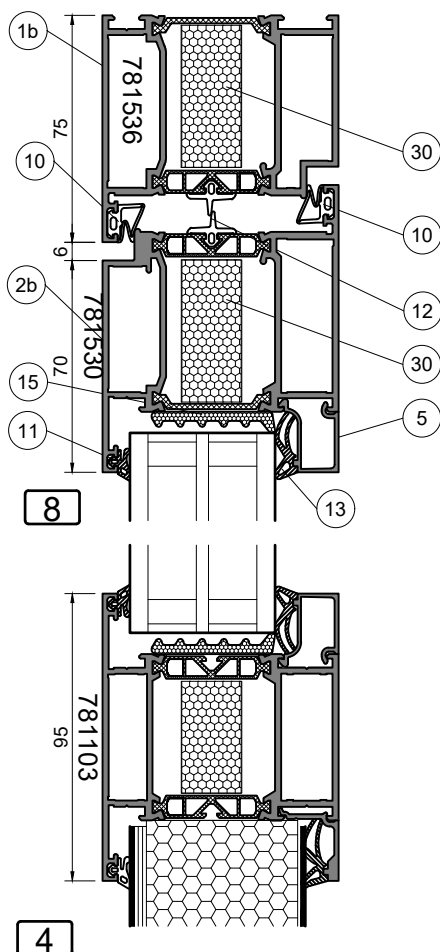
OSA	TARVIKKEET	TYYPPI	LKM	HUOM!	KONEISTUS	KOKOON- PANO
10	Huulostiiviste	DX781	-	-	-	8.6.2
11	Ulkopuolen lasitustiiviste	DX783	-	-	-	10.3.1
12	Keskitiiviste	DX787	-	-	-	-
13	Sisäpuolen lasitustiiviste	kts. 10.2	-	Eco-tiiviste lasiosille	-	10.3.3
14	Sisäpuolen lasitustiiviste	kts. 10.2	-	PX-tiiviste umpiosille	-	10.3.3
15	Kyntetilan tiiviste	PE2	-	-	-	10.3.2
16	Kynnystiiviste	DX786	-	-	-	-
18	Umpiosa	kts. 10.2	-	-	-	-
19	Jiiriliitoskpl/ karmi	78JL530	2	-	3.2.7	-
20	Jiiriliitoskpl/ ovilehti	78JL532	4	-	3.2.7	-
21	T-liitoskappale	78TL103/ 78TL205	2	2kpl/ väliwaaka	3.2.6	8.3.2
22	Kynnyksen kiinnitysruuvit	kts. 8.4.5	4	-	-	-
23	Saranat	-	2-3	-	7.4.1.X	-
24	Lukon vastaraudan aluslevy	78 / 21	1-2	1kpl/ väliwaaka	7.4.3.4	8.7.2.1
25	Haarautuva sisäkierreniitti	78H / 10	2-4	2kpl/ lukko	-	8.7.1
26	Käyttölukko	-	1	Lukituksen mukaan	7.4.2.X	8.7.1
27	Varmuuslukko	-	1	Lukituksen mukaan	7.4.2.X	8.7.1
28	Ovensuljin	-	1	Tarvittaessa	-	8.7.4
29	Ylivientisuoja	-	1	Lukituksen mukaan	7.4.7.2	7.4.7.2
30	Eristelevy	PUR20x47	-	-	-	-
31	Eristelevy	PUR20x37/ PUR20x13	-	-	-	-

LK78X INWARD OPENING DOOR, CUTTING MEASURES AND EQUIPMENT LIST

PART	ITEM	PROFILE	PCS	CUT LENGTH	SAWING- ANGLE	MACHI- NING	ASSEMBLY
1a	Vertical frame	781536	1	H	90 / 45	7.2.1.2	-
1b	Horizontal frame	781536	1	B	45 / 45	7.2.1.2	-
1c	Vertical frame	781536	1	H	45 / 90	7.2.1.2	-
2a	Vertical sash	781530	2	H-88	45 / 45	7.2.1.1	-
2b	Horizontal sash	781530	2	B-152	45 / 45	7.2.1.1	-
3	Threshold	780134	1	B-159	90 / 90	7.3.1	-
4	Intermediate horizontal bar	781103 / 781205	1	B-302	90 / 90	7.1.1	8.3.1
5	glazing bead	see 10.2	-	-	90 / 90	-	10.3.3
6	Infill glazing bead	see 10.2	-	-	90 / 90	-	10.3.3
9	Drop list (if needed)	948	1	B-202	90 / 90	-	-

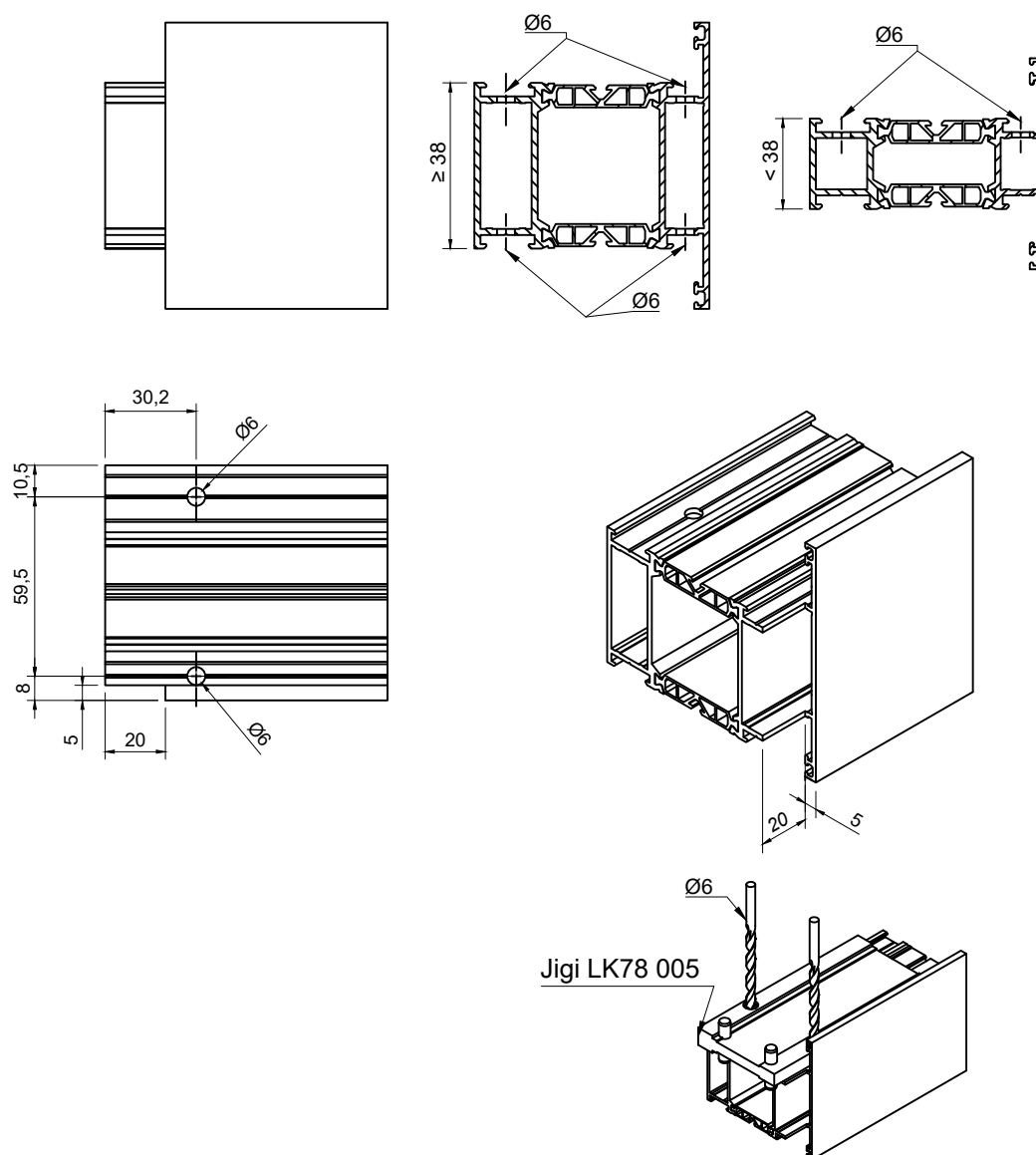
PART	ACCESSORIES	TYPE	PCS	NOTE!	MACHINING	ASSEMBLY
10	Lip gasket	DX781	-	-	-	8.6.2
11	Exterior glazing gasket	DX783	-	-	-	10.3.1
12	Middle gasket	DX787	-	-	-	-
13	Inner glazing gasket	see 10.2	-	Eco-gasket for glazing	-	10.3.3
14	Inner glazing gasket	see 10.2	-	PX-gasket for infill panel	-	10.3.3
15	Rebate sealing	PE2	-	-	-	10.3.2
16	Threshold gasket	DX786	-	-	-	-
18	Infill panel	see 10.2	-	-	-	-
19	Mitre joint piece / frame	78JL532	2	-	3.2.7	-
20	Mitre joint piece / door leaf	78JL530	4	-	3.2.7	-
21	T-joint piece	78TL103/ 78TL205	2	2 pcs/ intermediate horizontal bar	3.2.6	8.3.2
22	Threshold fastening screws	see 8.4.1	4	-	-	-
23	Hinges	-	2-3	-	7.4.1.X	-
24	Lock striking plate washer	78 / 21	1-2	1 pcs/ striking plate	7.4.3.4	8.7.2.1
25	Special rivet	78H / 10	2-4	2 pcs/ lock	-	8.7.1
26	Mortise lock	-	1	Acc. to locking	7.4.2.X	8.7.1
27	Security lock	-	1	Acc. to locking	7.4.2.X	8.7.1
28	Door closer	-	1	If needed	-	8.7.4
29	Lead cover	-	1	Acc. to locking	7.4.7.2	7.4.7.2
30	Insulation strip	PUR20x47	-	-	-	-
31	Insulation strip	PUR20x37/ PUR20x13	-	-	-	-

LK78X SISÄÄNAUKEAVA 1-LEHTINEN OVI, TARVIKEDETALJI
LK78X INWARD OPENING DOOR, EQUIPMENT DETAILS



T-LIITOKSEN KONEISTUS

MACHINING T-JOINT

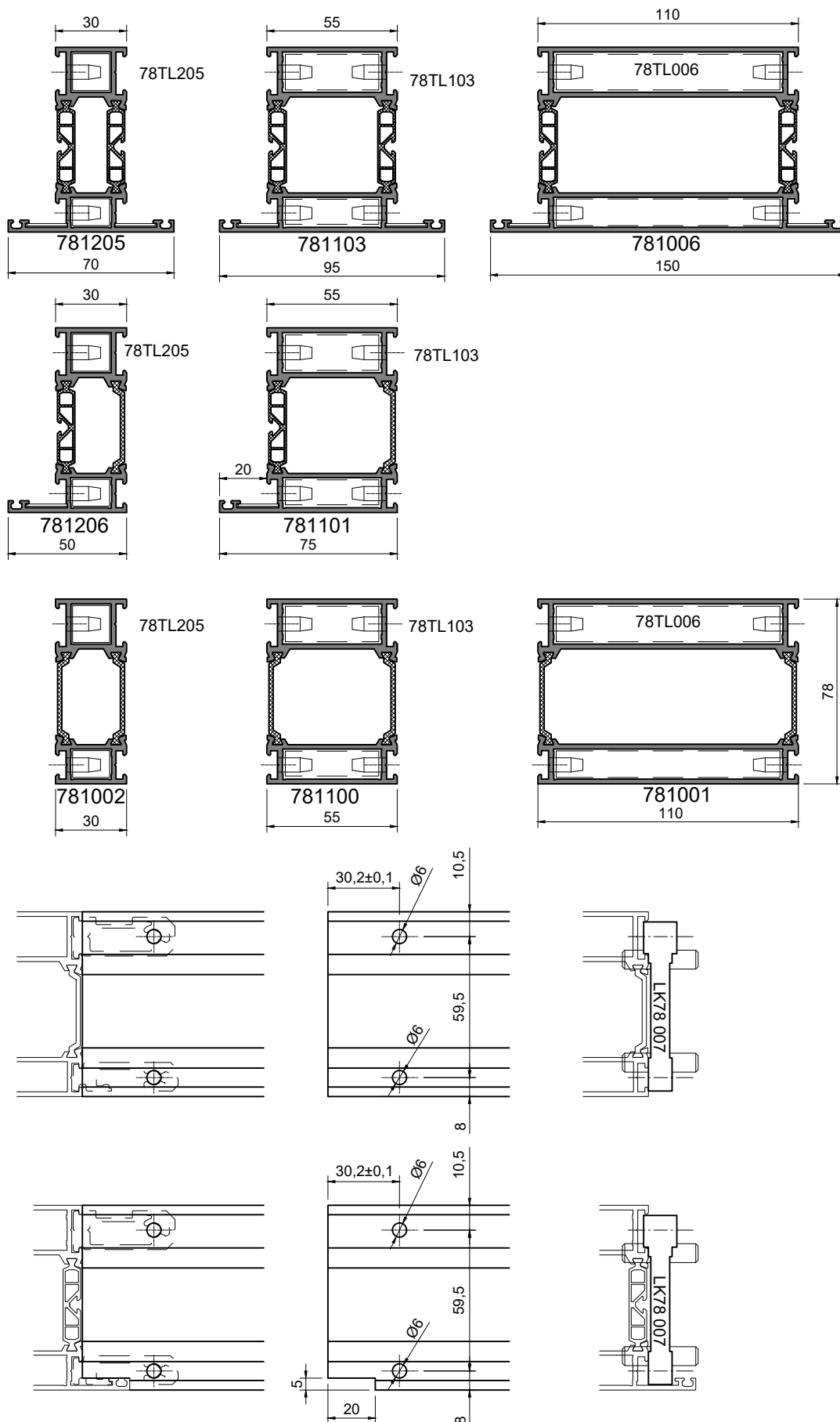


HUOM! Varmista, että porausiigi pysyy tukevasti paikallaan reikiä poratessa.

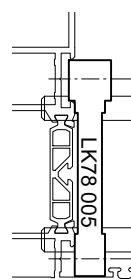
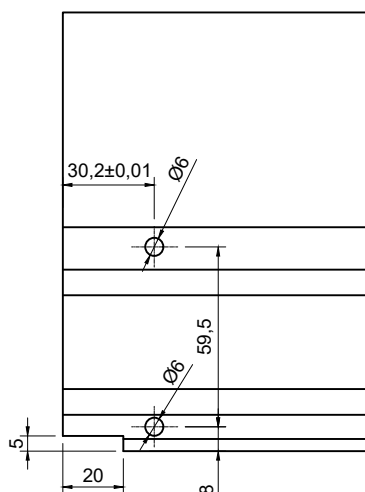
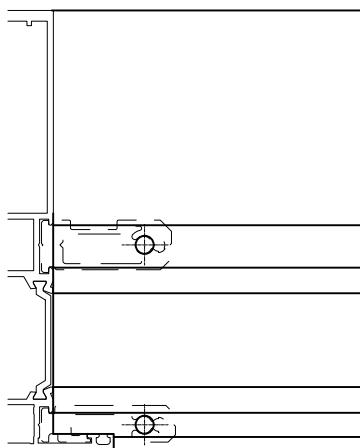
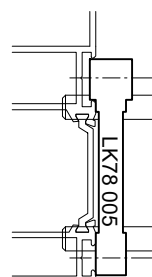
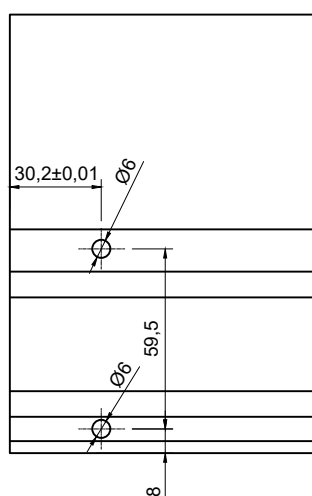
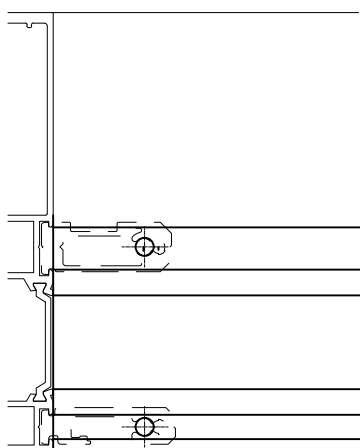
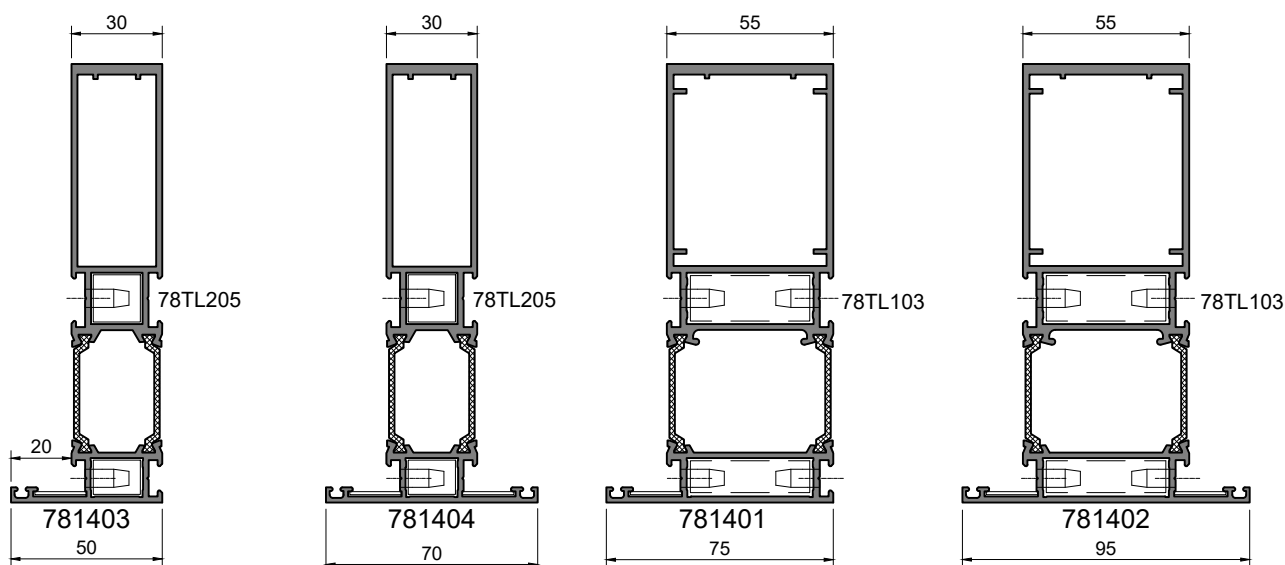
Kiinnityksen apuna voidaan käyttää esimerkiksi puristinta.

NOTE! Use clamps when necessary to ensure that the drilling guide stays firmly on its place while drilling the holes.

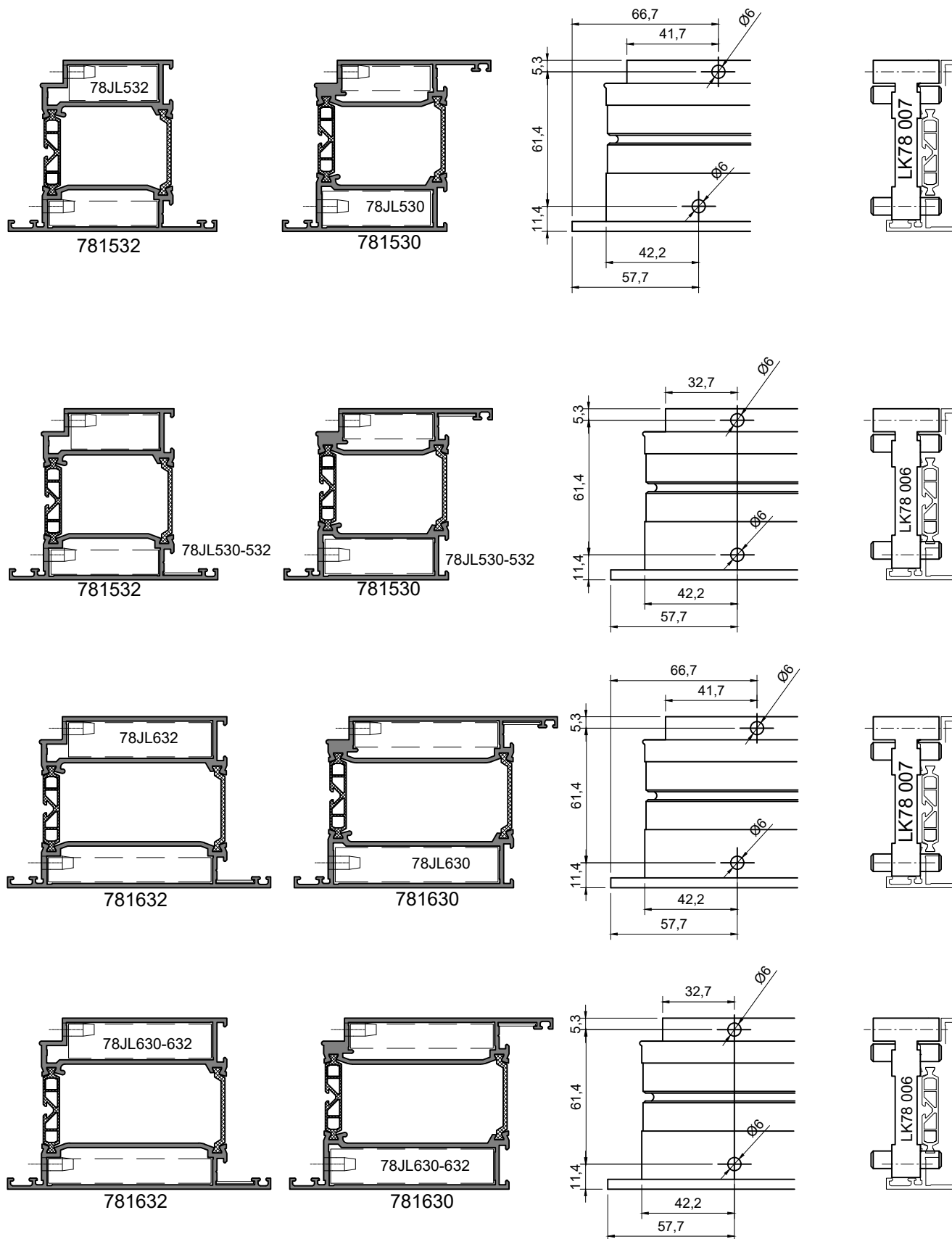
T-LIITOKSEN REI'ITYS LIITOSNIITILLE
T-JOINT HOLES FOR CONNECTION PINS



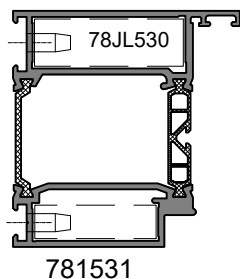
T-LIITOKSEN REI'ITYS LIITOSNIITILLE T-JOINT HOLES FOR CONNECTION PINS



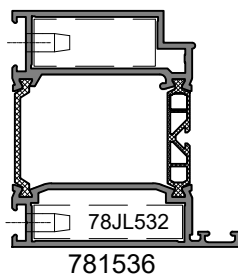
JIIIRILIITOKSEN NIITIN PAIKAT
Machining mitred joint



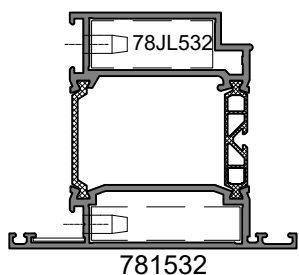
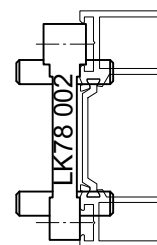
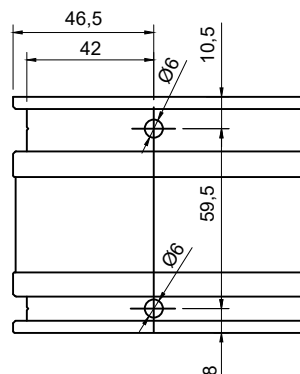
JIIIRILIITOKSEN NIITIN PAIKAT
Machining mitred joint



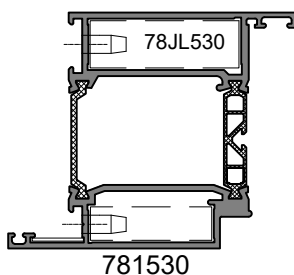
781531



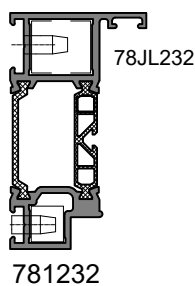
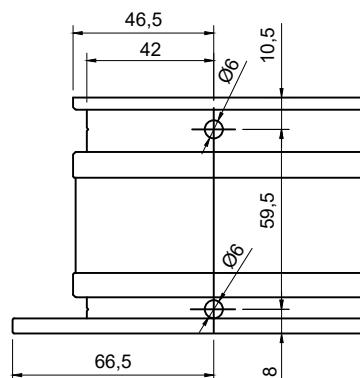
781536



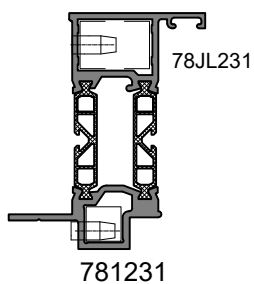
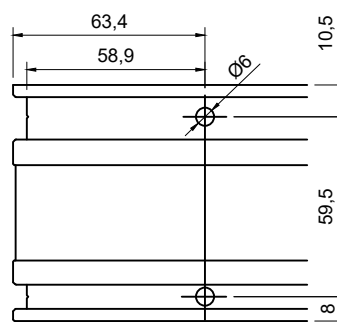
781532



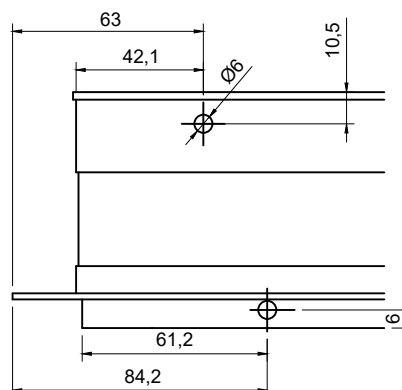
781530



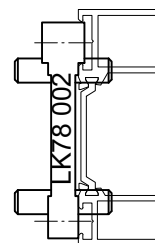
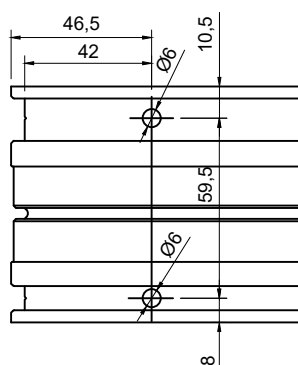
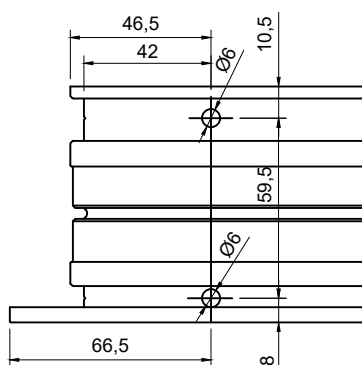
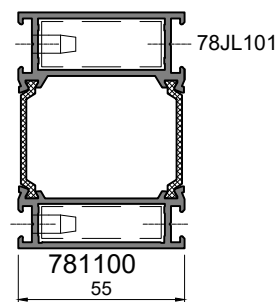
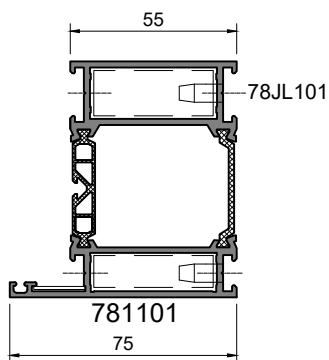
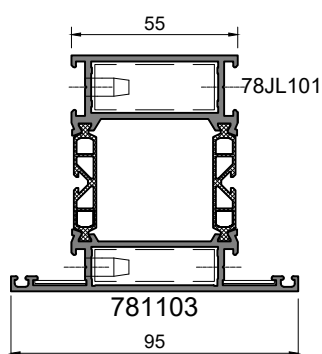
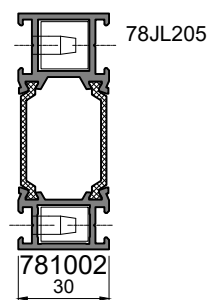
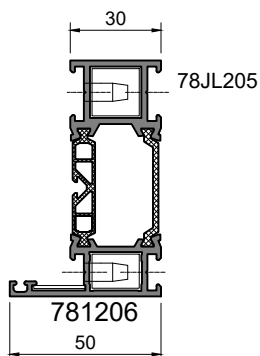
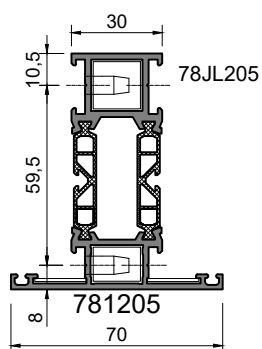
781232



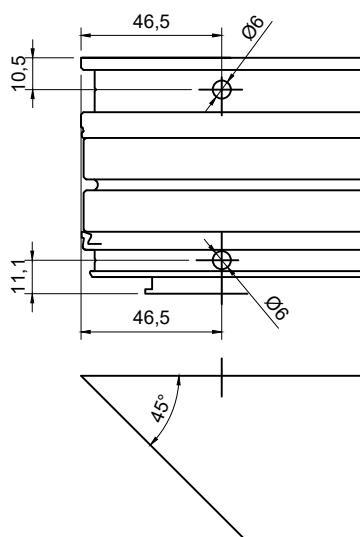
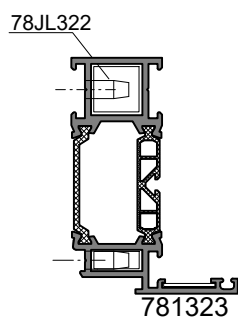
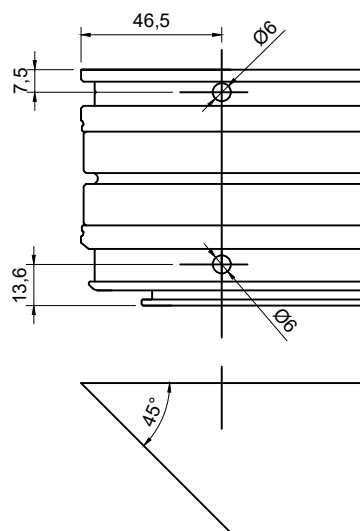
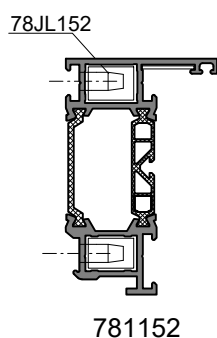
781231



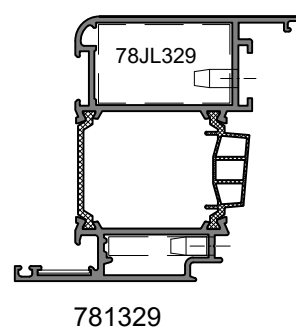
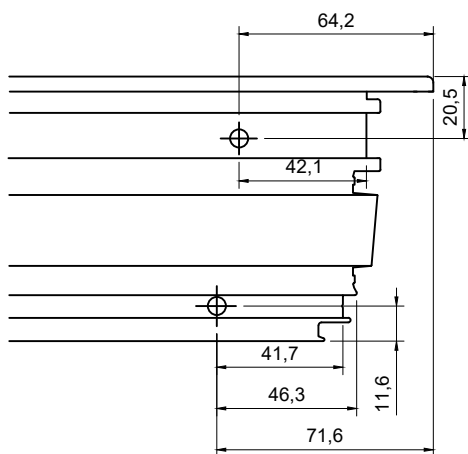
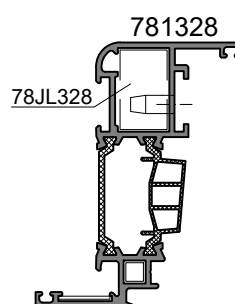
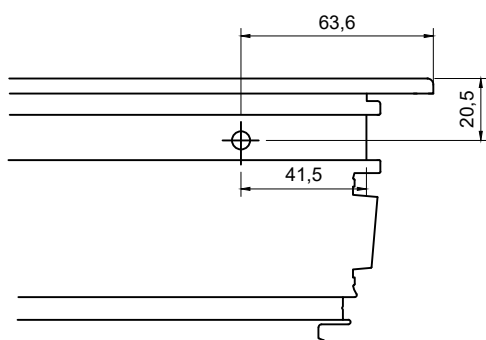
JIIIRILIITOKSEN NIITIN PAIKAT
Machining mitred joint



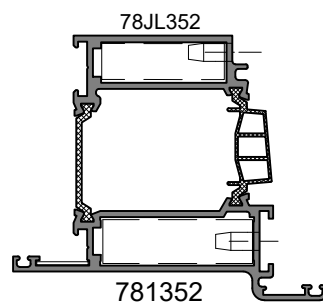
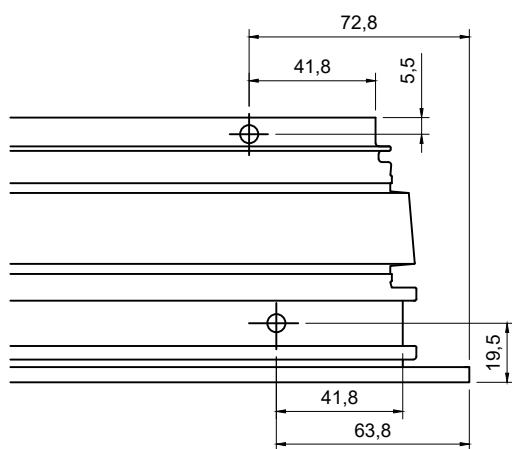
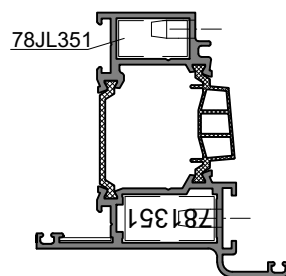
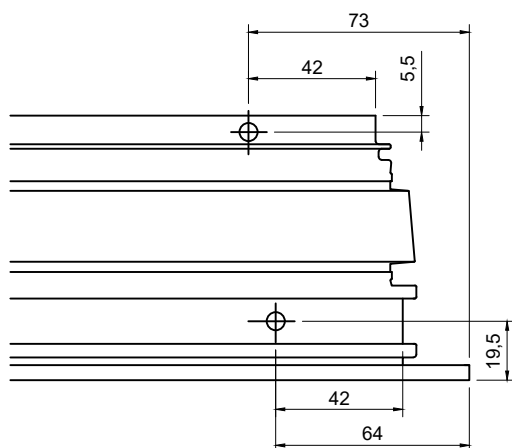
JIIRILIITOKSEN NIITIN PAIKAT Machining mitred joint



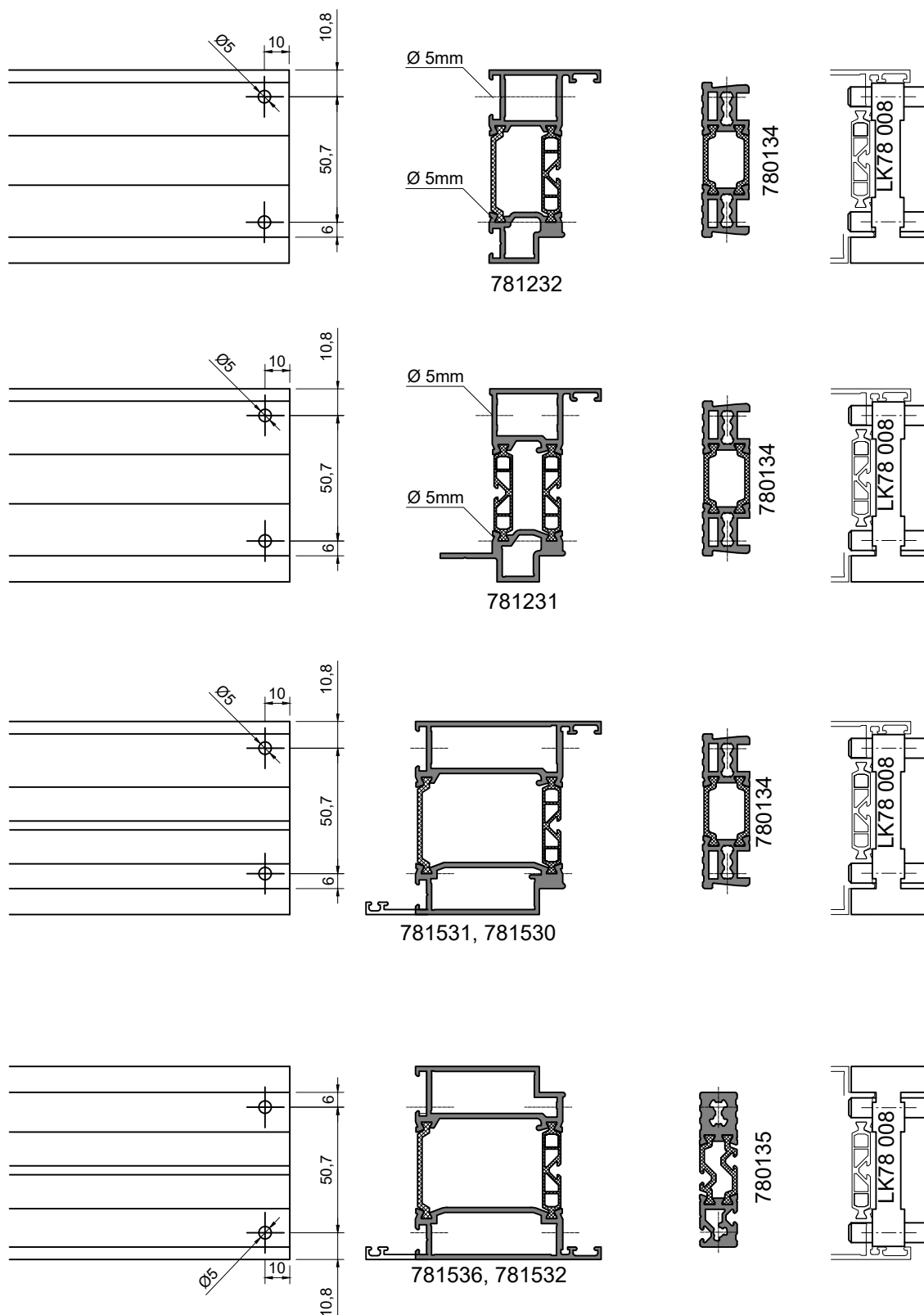
JIIIRILIITOKSEN NIITIN PAIKAT
Machining mitred joint

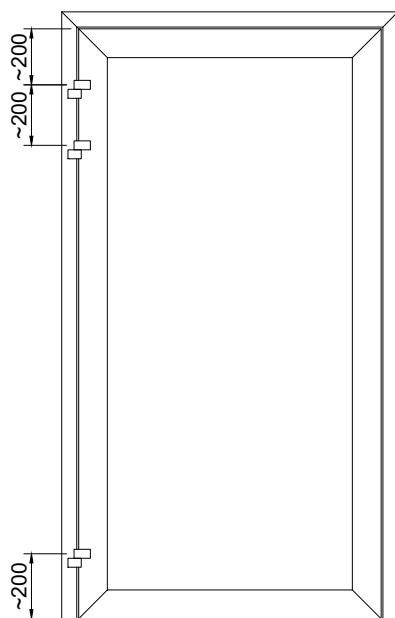
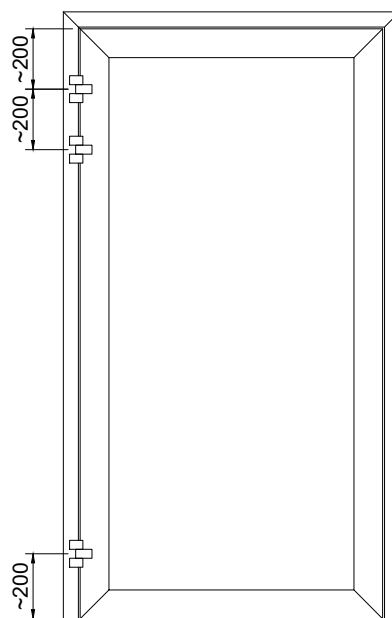
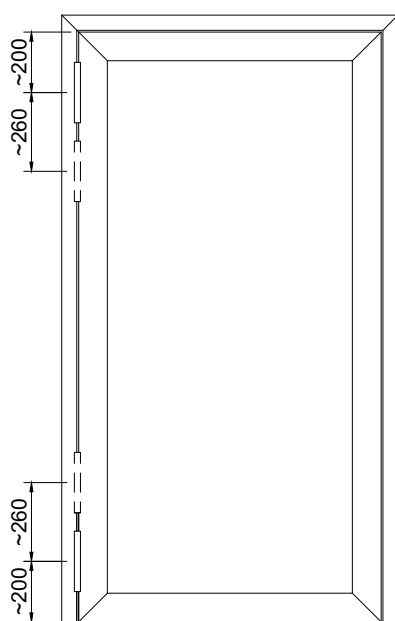


JIIRILIITOKSEN NIITIN PAKAT
Machining mitred joint

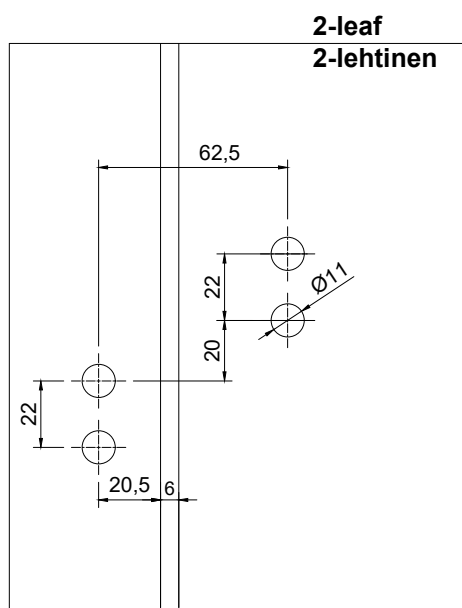


KYNNYKSEN RUUVIEN PAIKAT THRESHOLD FASTENING SCREW LOCATIONS

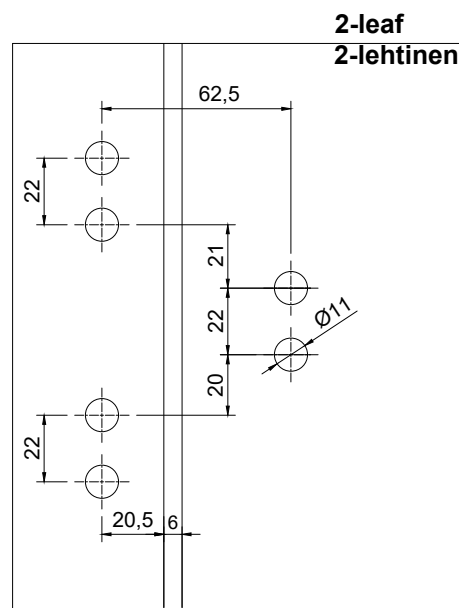


OVISARANOIDEN PAIKAT
DOOR HINGES, POSITIONS2-pistesaranat
2 leaf hinges3-pistesaranat
3 leaf hingesPutkisaranat
Butt hinges

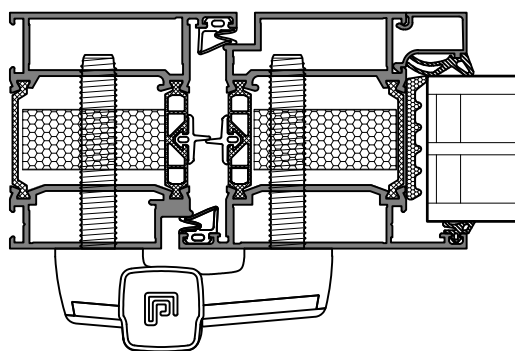
HAHN M701/M751 -SARANOIDEN KONEISTUS MACHINING FOR HAHN M701/M751 HINGES



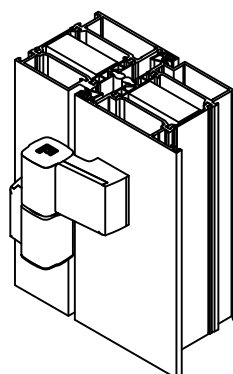
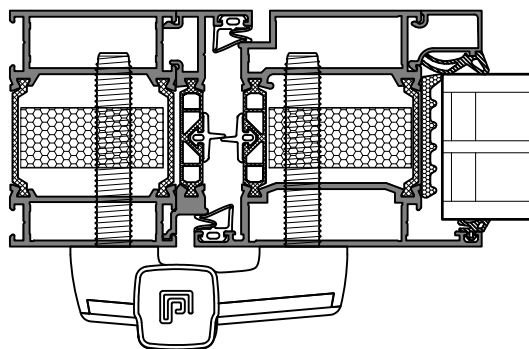
Porausjigi: 201A0000 (9230) tai
Drillingjig: JSAJIGI (03237000)



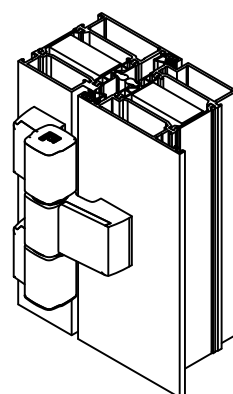
Porausjigi: T251A0000 (9310) tai
Drillingjig: JSAJIGI (03237000)



781542



HAHN M701
2-lehtinen
2-leaf



HAHN M751
2-lehtinen
2-leaf

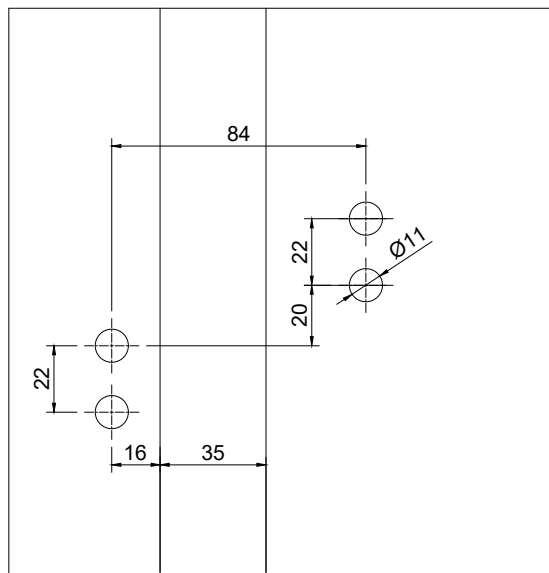
Ankkuriruuvit tilattava erikseen.

Ankkuriruuvit (MANKKURIRUUVI74) kappaleittain

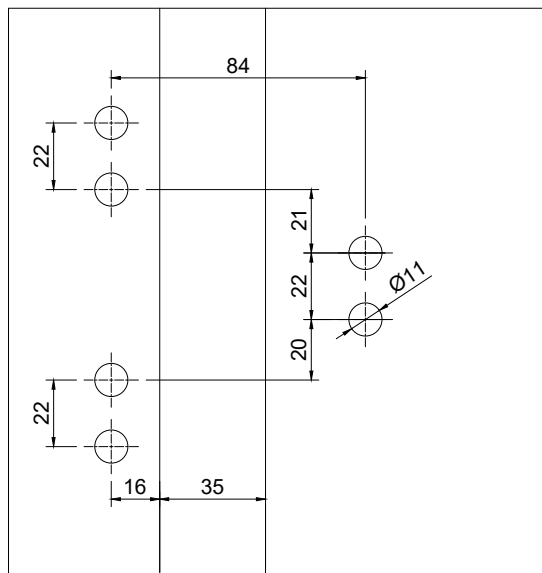
Anchor screws or counterplate set to be ordered separately.

Anchor screws (MANKKURIRUUVI74) by the piece

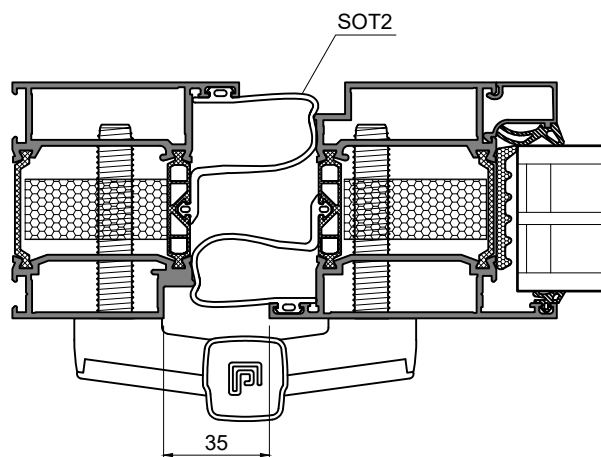
HAHN M711/M761 -SARANOIDEN KONEISTUS MACHINING FOR HAHN M711/M761 HINGES



Porausjigi: T211A000/ tai
Drillingjig: JSAJIGI (03237000)

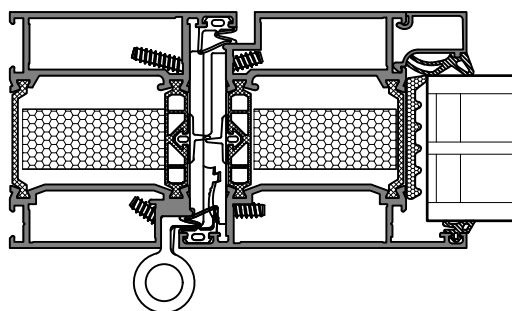
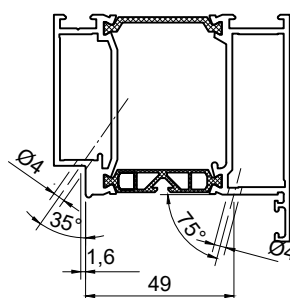
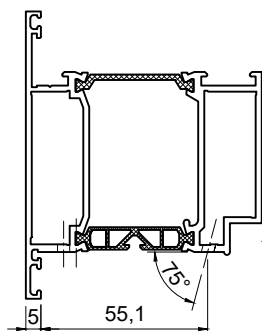
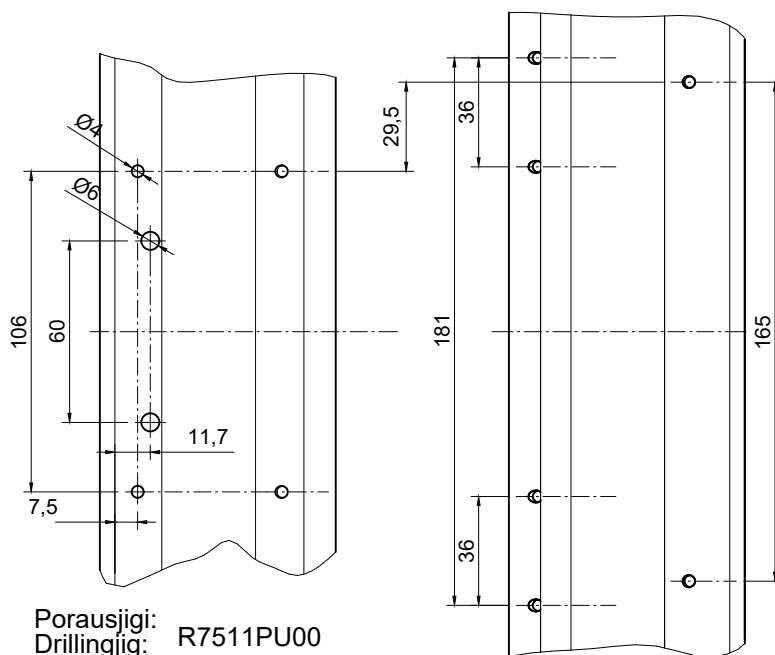


Porausjigi: T261A0000/ tai
Drillingjig: JSAJIGI (03237000)

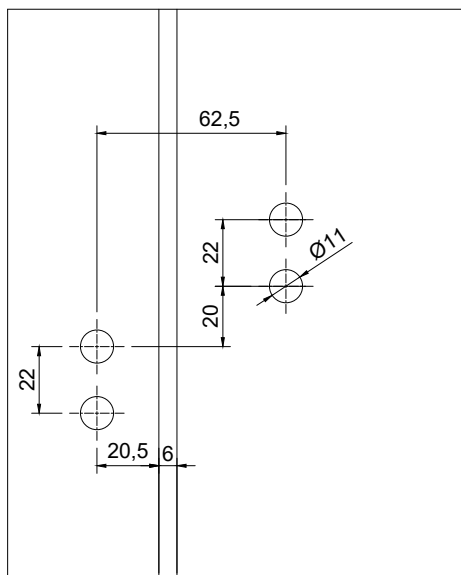


Ankkuriruuvit tilattava erikseen.
Ankkuriruuvit (MANKKURIRUUVI74) kappaleittain
Anchor screws or counterplate set to be ordered separately.
Anchor screws (MANKKURIRUUVI74) by the piece

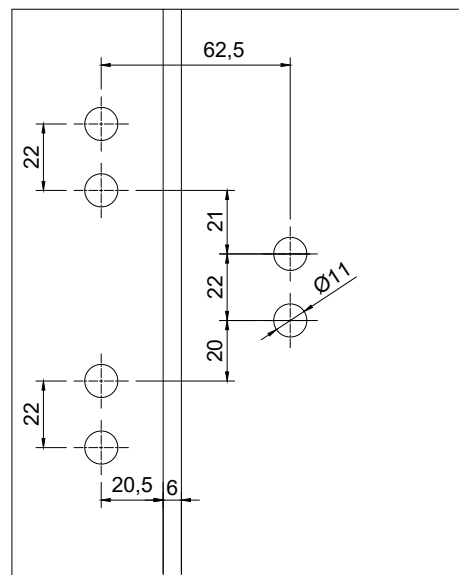
HAHN R751 -SARANOIDEN KONEISTUS MACHINING FOR HAHN R751 HINGES



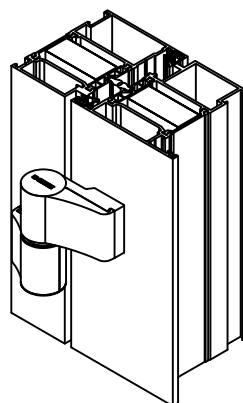
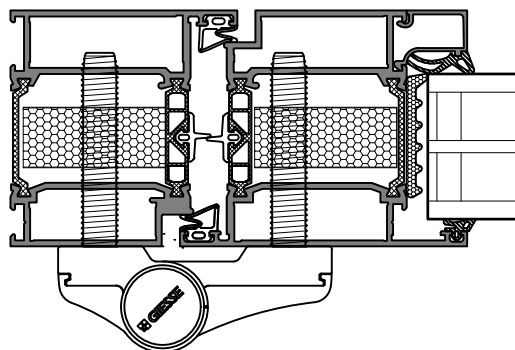
GIESSE DOMINA HP SARANOIDEN KONEISTUS MACHINING FOR GIESSE DOMINA HP HINGES



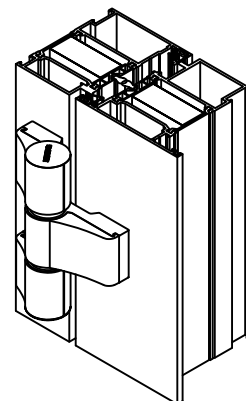
Porausjigi: 201A0000 (9230) tai
Drillingjig: JSAJIGI (03237000)



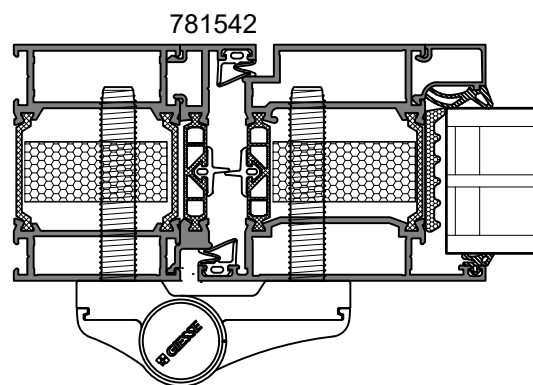
Porausjigi: T251A0000 (9310) tai
Drillingjig: JSAJIGI (03237000)



GIESSE DOMINA HP
2-leaf (05160V)

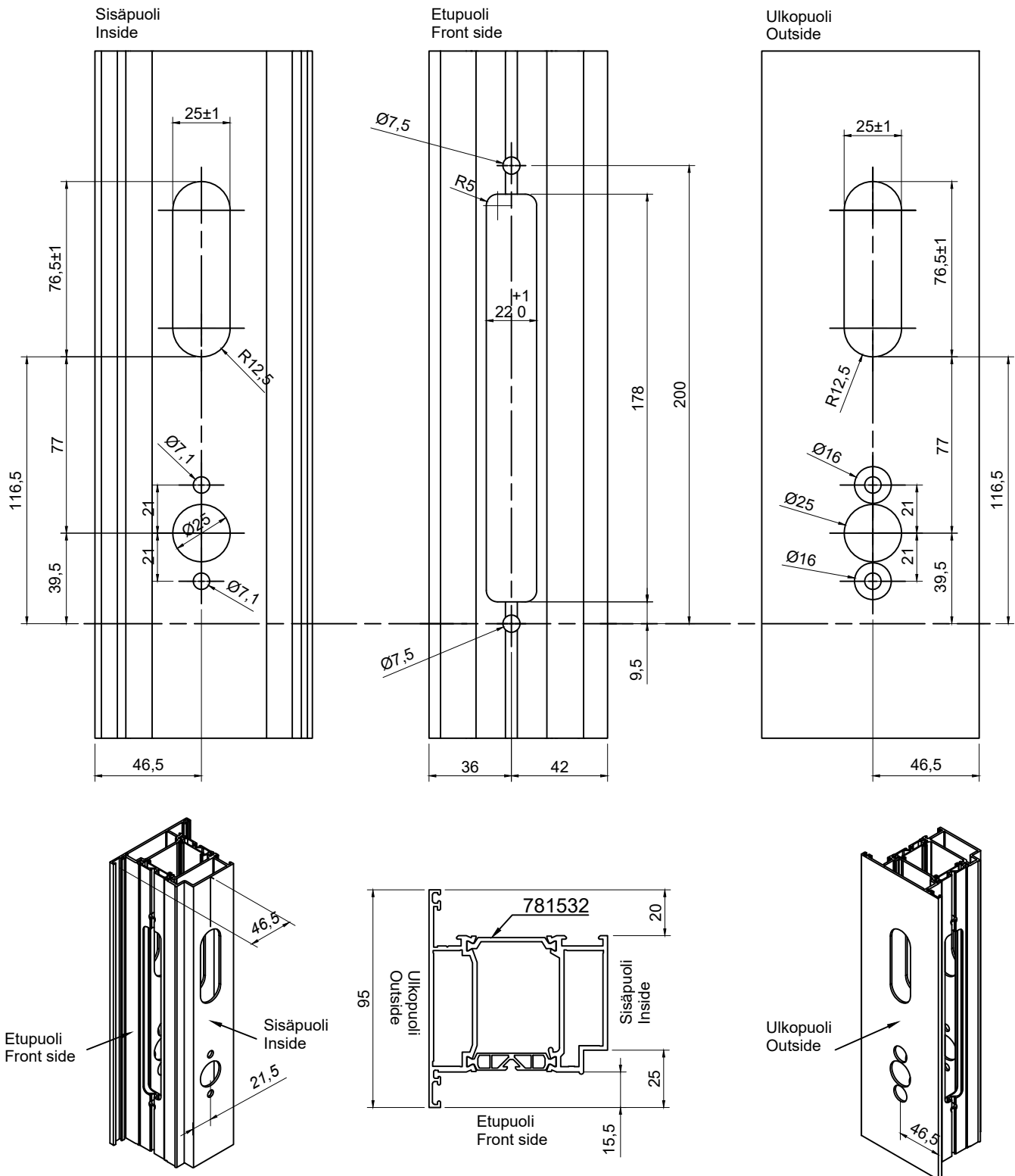


GIESSE DOMINA HP
3-leaf (05161V)



ABLOY LUKKORUNKOJEN LC300-LC305 KONEISTUKSET

MACHINING OF ABLOY LOCK CASES LC300-LC305

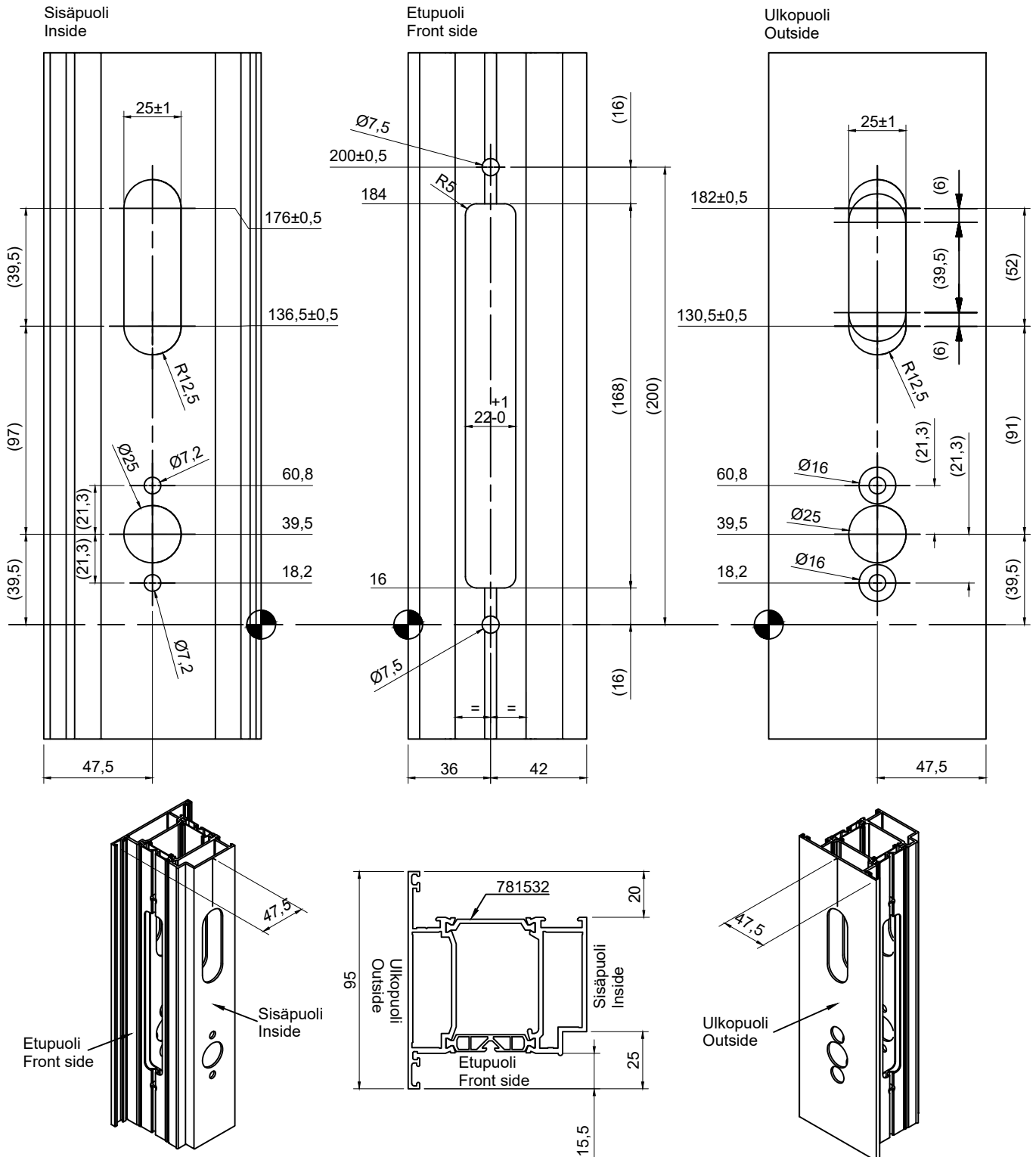


Selvitä tarvittavat koneistukset painikkeille, avainpesille ja vääntönupeille lukkorungon valmistajalta lukkorungon mallin mukaan. Painikkeiden, avainpesien ja vääntönappien koneistukset tehdään puolittain kahden ensimmäisen seinämän läpi.

Find out necessary machining for handles, lock cylinders and thumbturns from the manufacturer of the lock case according to the model of lockcase. Machining for handles, lock cylinders and thumbturns are made through the first two walls on both sides.

ABLOY LUKKORUNGON EL480 KONEISTUKSET

MACHINING OF ABLOY LOCK CASE EL480

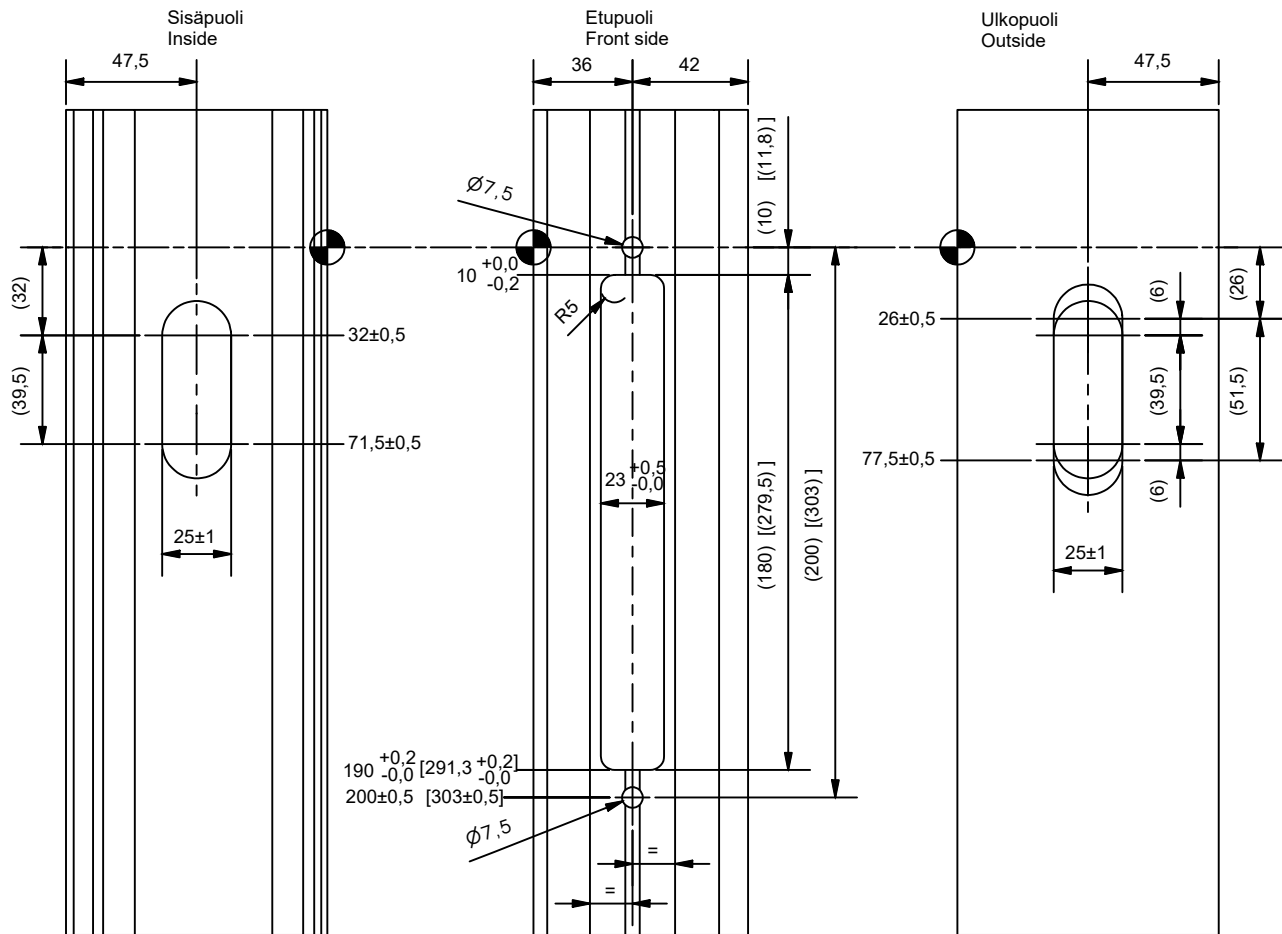


Selvitä tarvittavat koneistukset painikkeille, avainpesille ja vääntönupeille lukkorungon valmistajalta lukkorungon mallin mukaan. Painikkeiden, avainpesien ja vääntönuoppien koneistukset tehdään puolittain kahden ensimmäisen seinämän läpi.

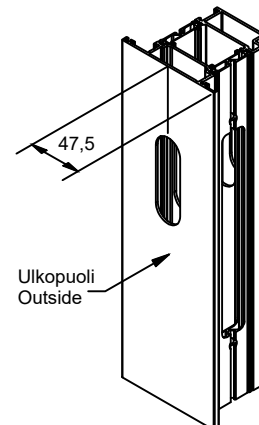
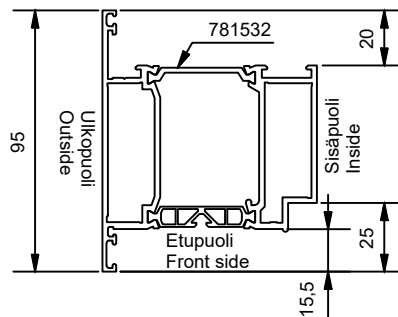
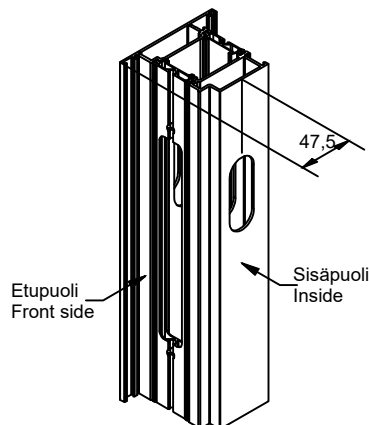
Find out necessary machining for handles, lock cylinders and thumbturns from the manufacturer of the lock case according to the model of lockcase. Machining for handles, lock cylinders and thumbturns are made through the first two walls on both sides.

Find out necessary machining for handles, lock cylinders and thumbturns from the manufacturer of the lock case according to the model of lockcase. Machining for handles, lock cylinders and thumbturns are made through the first two walls on both sides.

ABLOY LUKKORUNGON EL655 KONEISTUKSET MACHINING OF ABLOY LOCK CASE EL655



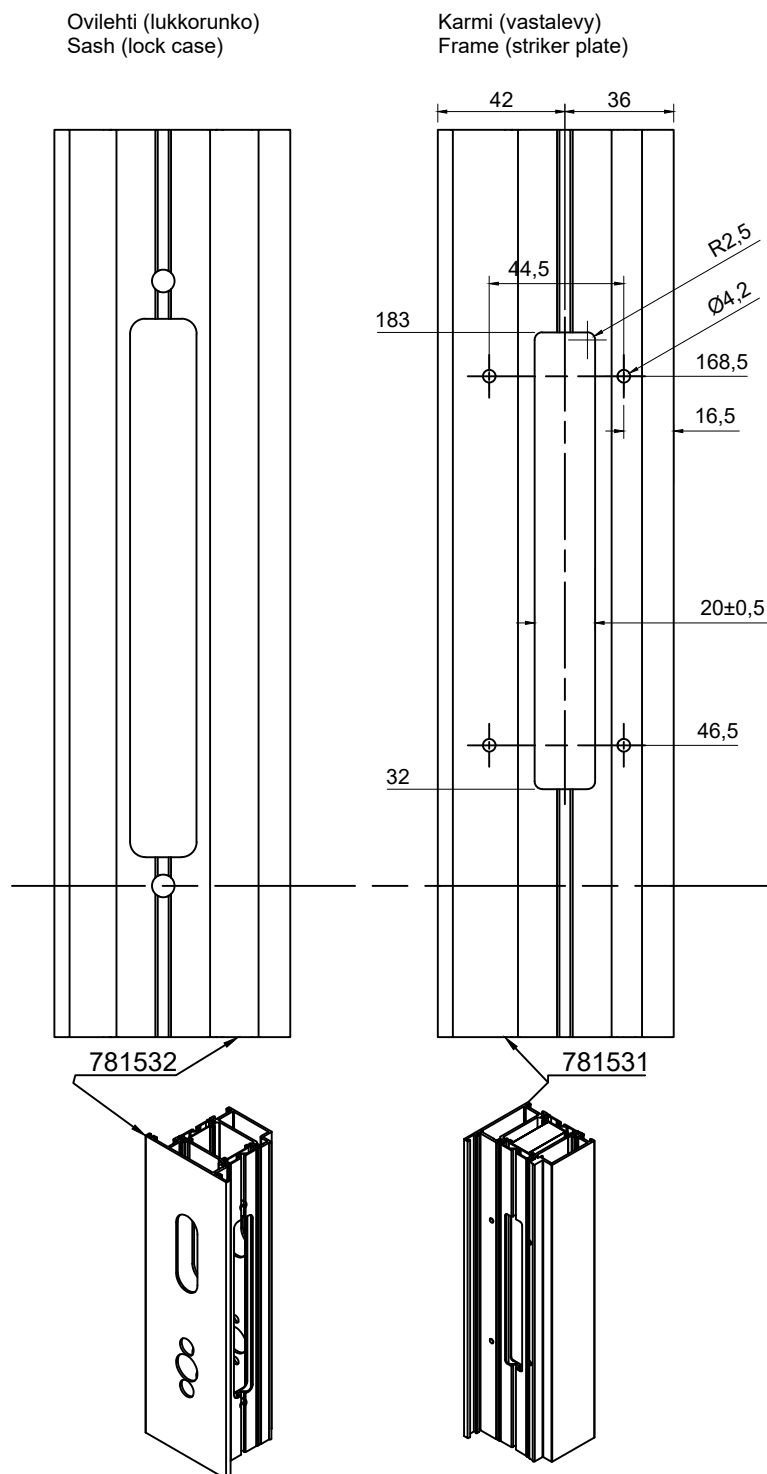
Hakasuissa olevia mittoja käytetään, kun koneistetaan aukkoa lukkorungolle EL655 pitkällä rintalevyllä
Measures in square brackets are used when machining a slot for a lock case EL655 with long chest plate



Selvitä tarvittavat koneistukset painikkeille, avainpesille ja vääntönupeille lukkorungon valmistajalta lukkorungon mallin mukaan. Painikkeiden, avainpesien ja vääntönuppien koneistukset tehdään puolittain kahden ensimmäisen seinämän läpi.

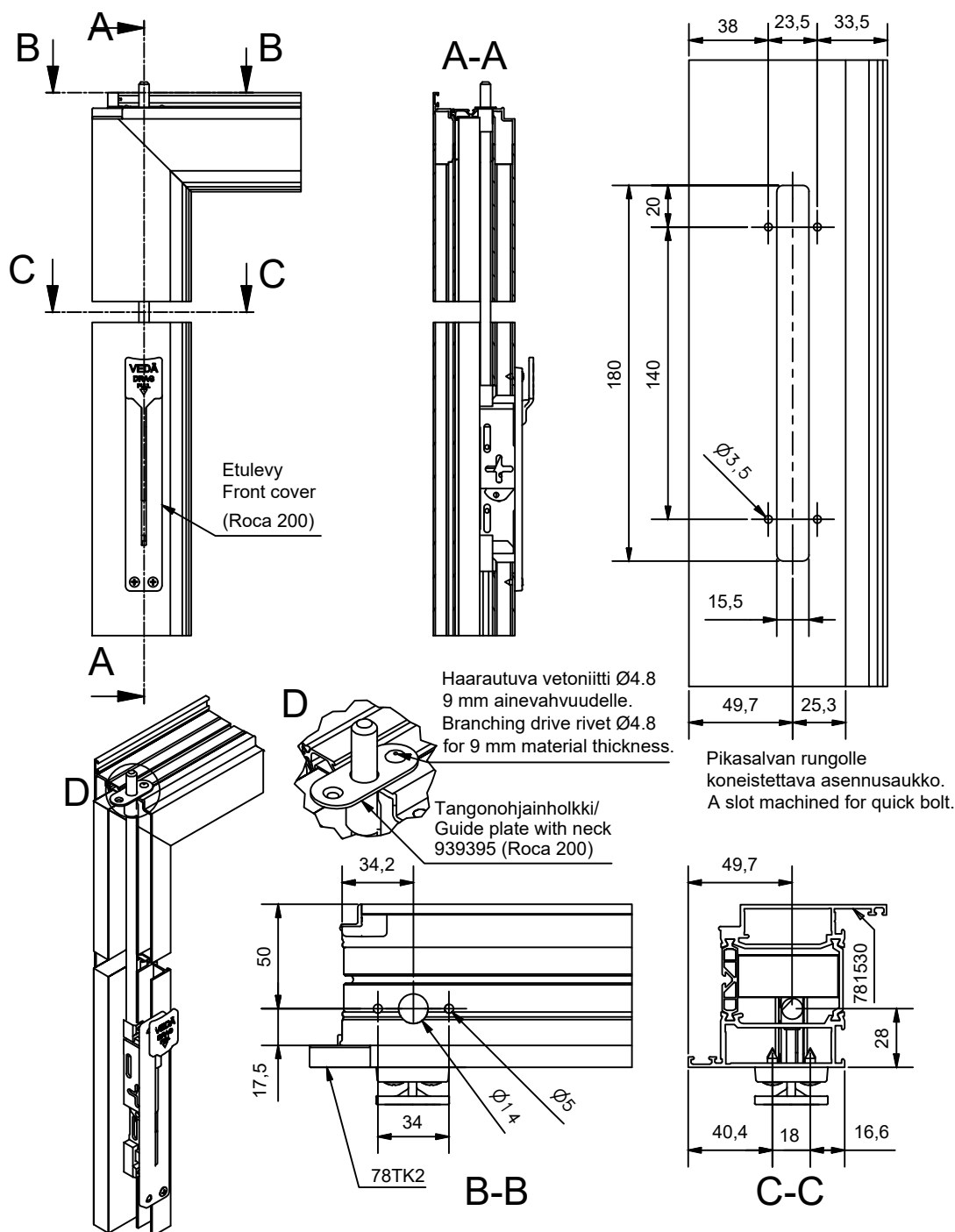
Find out necessary machining for handles, lock cylinders and thumbturns from the manufacturer of the lock case according to the model of lockcase. Machining for handles, lock cylinders and thumbturns are made through the first two walls on both sides.

ALUSLEVYN 78/21 JA LUKON VASTARAUDAN ABLOY 4613/4614/4655 KONEISTUS MACHINING FOR WASHER PLATE 78/21 AND ABLOY STRIKER PLATE 4613/4614/4655

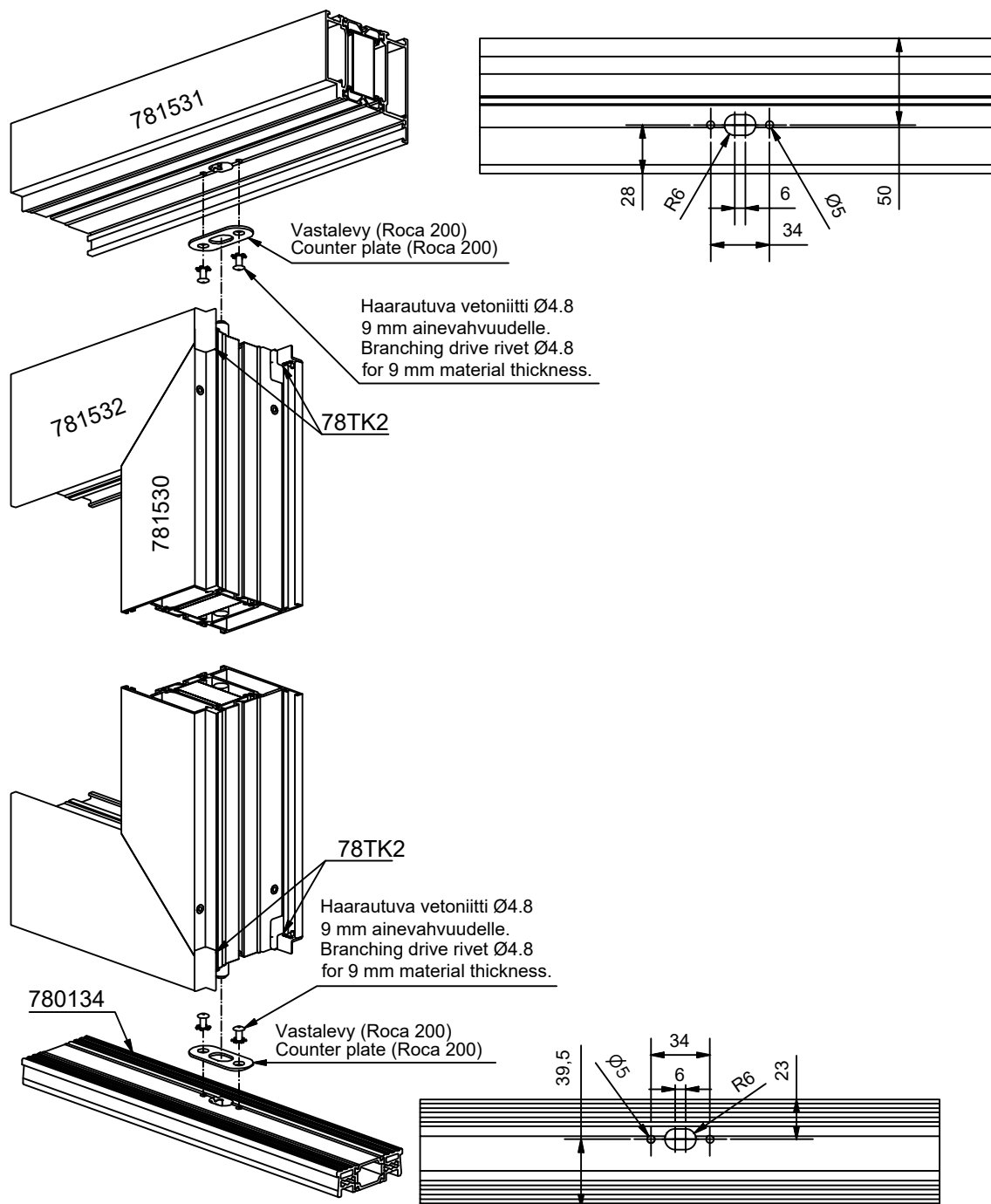


Selvitä tarvittavat koneistukset painikkeille, avainpesille ja vääntönupeille lukkorungon valmistajalta lukkorungon mallin mukaan. Painikkeiden, avainpesien ja vääntönuoppien koneistukset tehdään puolittain kahden ensimmäisen seinämän läpi.

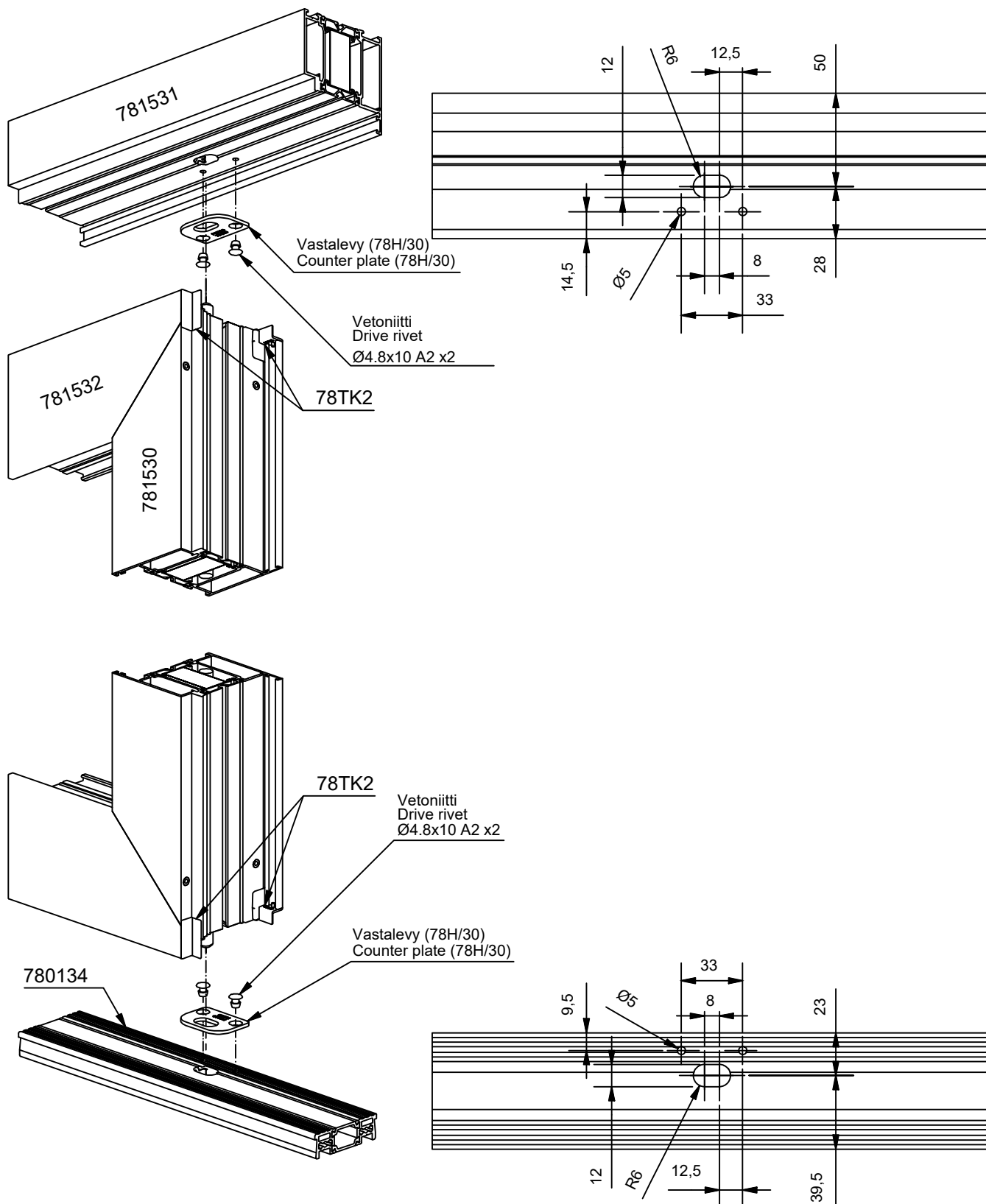
Find out necessary machining for handles, lock cylinders and thumbturns from the manufacturer of the lock case according to the model of lockcase. Machining for handles, lock cylinders and thumbturns are made through the first two walls on both sides.

PIKASALPA ROCA 200
QUICK BOLT ROCA 200


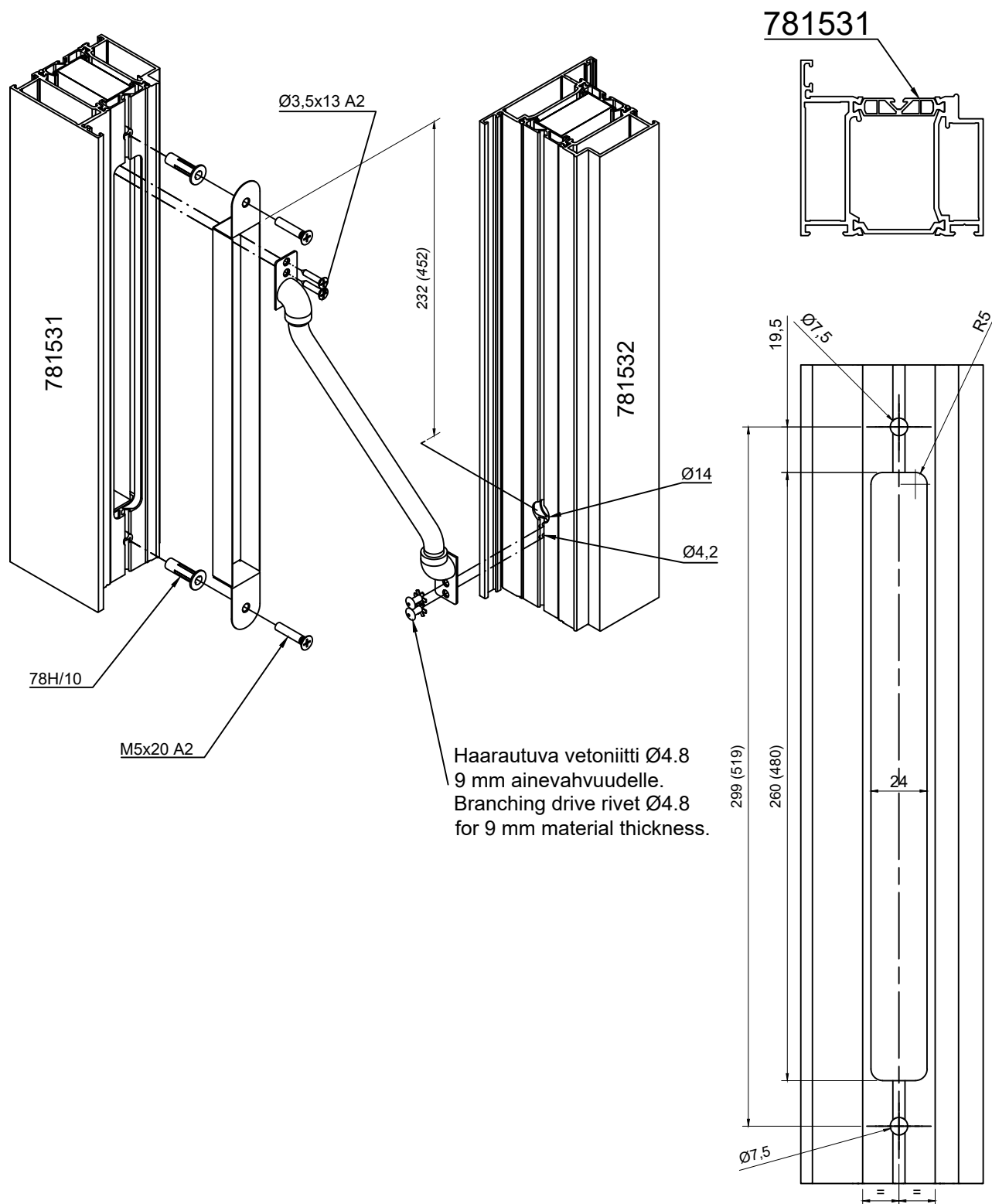
PIKASALVAN HELOJEN (ROCA 200) KONEISTUS JA ASENNUS MACHINING AND INSTALLATION OF QUICK BOLT FITTINGS (ROCA 200)



PIKASALVAN HELOJEN (PURSO 78H/30) KONEISTUS JA ASENNUS MACHINING AND INSTALLATION OF QUICK BOLT FITTINGS (PURSO 78H/30)

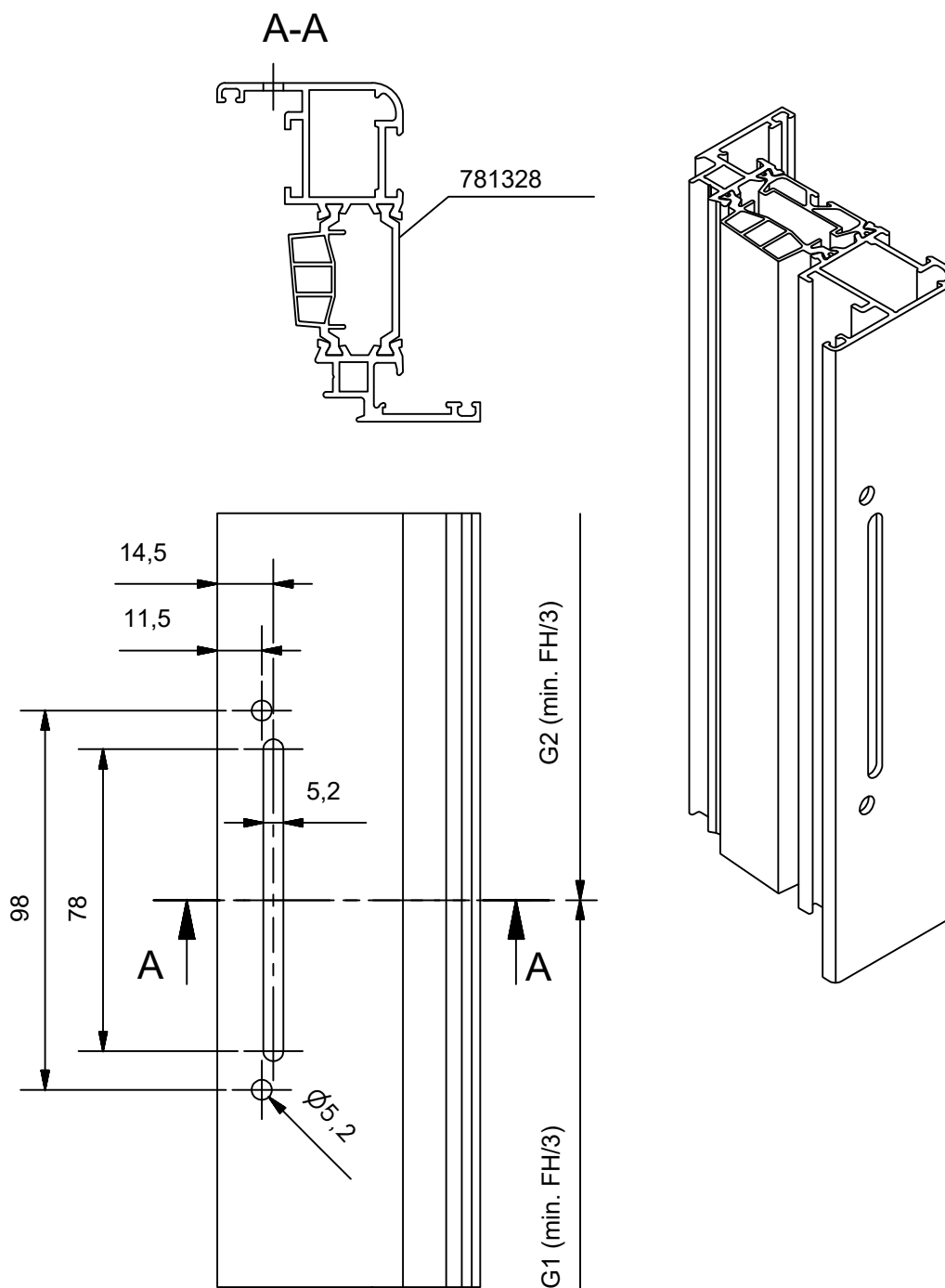


YLIVIENTISUOJAN ABLOY EA280/ EA281 KONEISTUS JA ASENNUS MACHINING AND INSTALLATION OF ABLOY EA280/ EA281 LEADCOVER

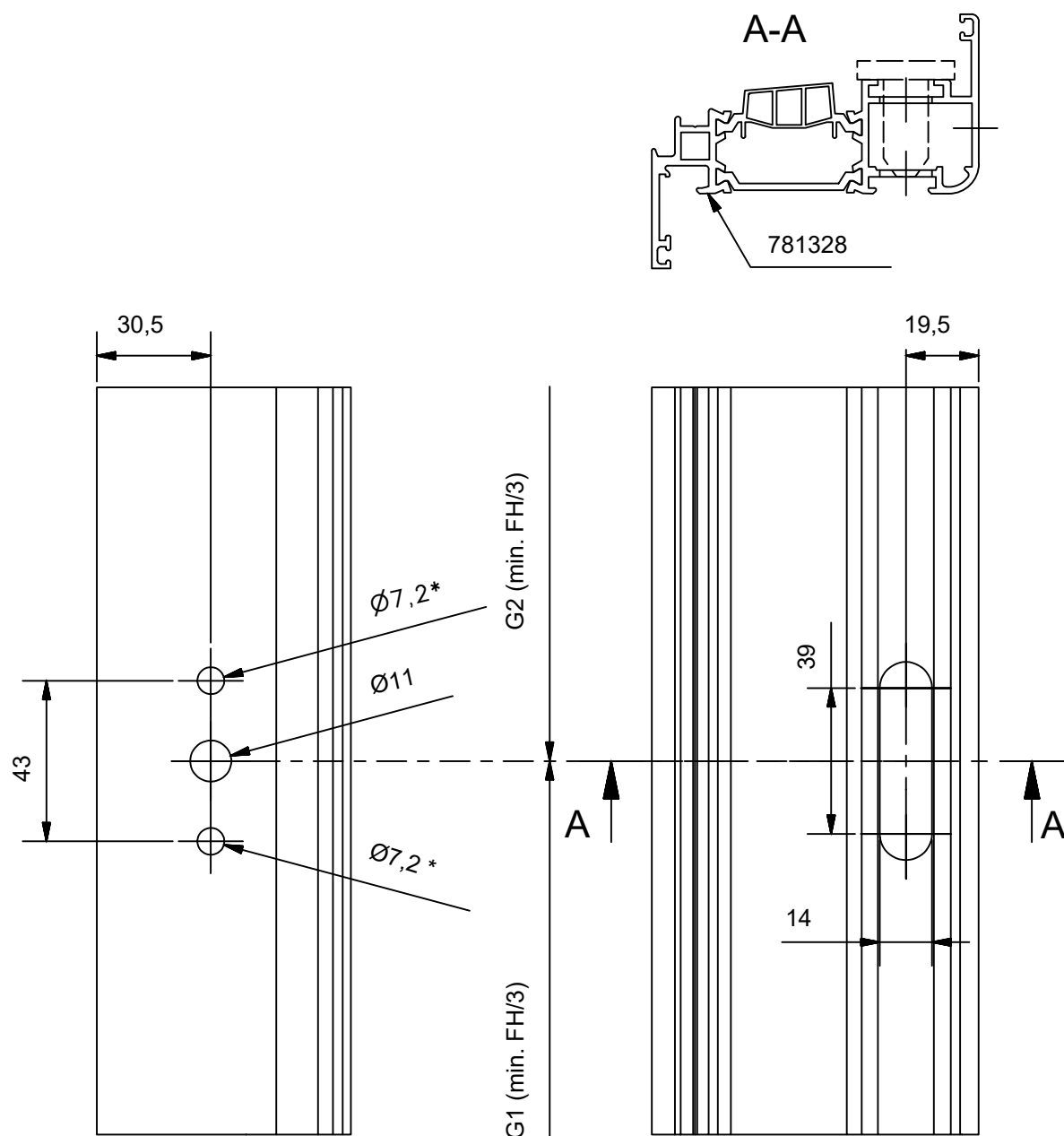


Karmiin koneistetaan aukko lämpökatkon keskelle ylivientisuoja ABLOY EA280 (EA281) varten.
A slot is machined to frame in the middle of thermal barrier for leadcover ABLOY EA280 (EA281).

SIPA PAINIKKEEN KONEISTUS PROFILIIN 781328
MACHINING OF SIPA HANDLE FOR PROFILE 781328



VAKIOPAINIKE JA SILU LUKKOLAITE, KONEISTUS STANDARD HANDLE AND SILU MORTISE LOCK, MACHINING



Profiiliin 781328 koneistetaan ovaali reikä molemmista seinämistä läpi ja profiiliin 781329 vain ensimmäisestä seinämästä läpi.

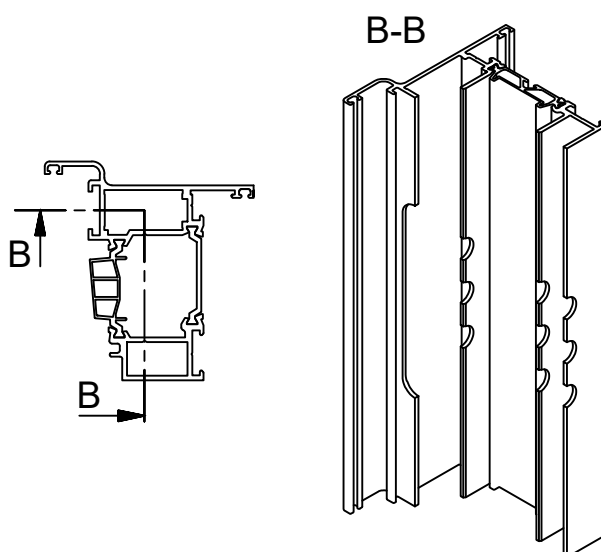
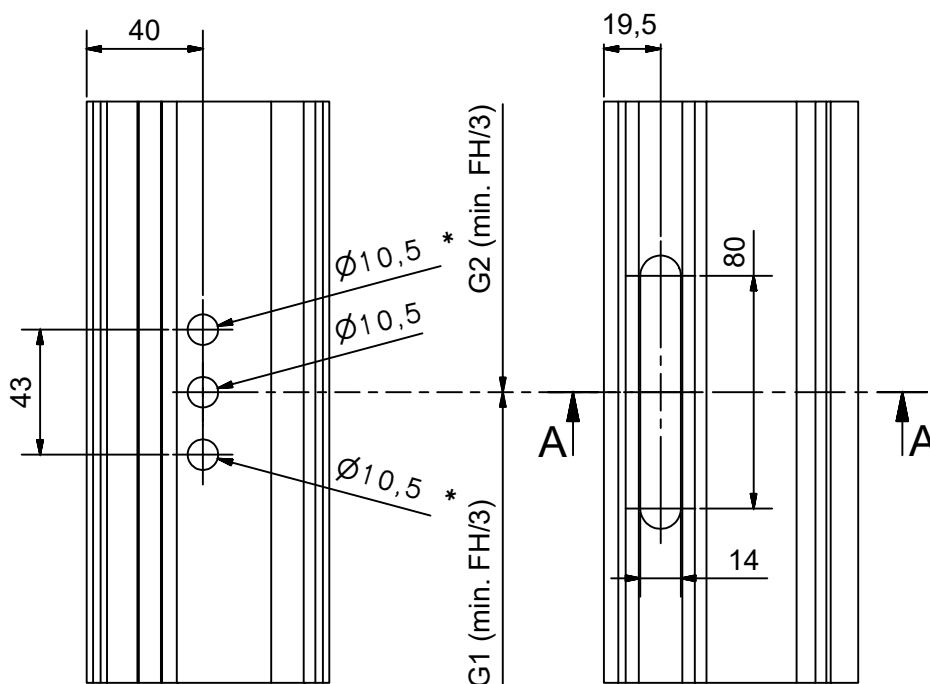
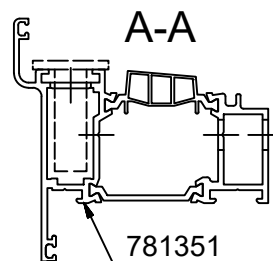
For profile 781328 is machined an oval hole through both walls and for profile 781329 only through first wall.

* Reikien halkaisijat painikkeen mukaan. Esim. Fuhr painikkeelle Ø10

* Diameters of the holes according to handle. Eg. for Fuhr handle Ø10

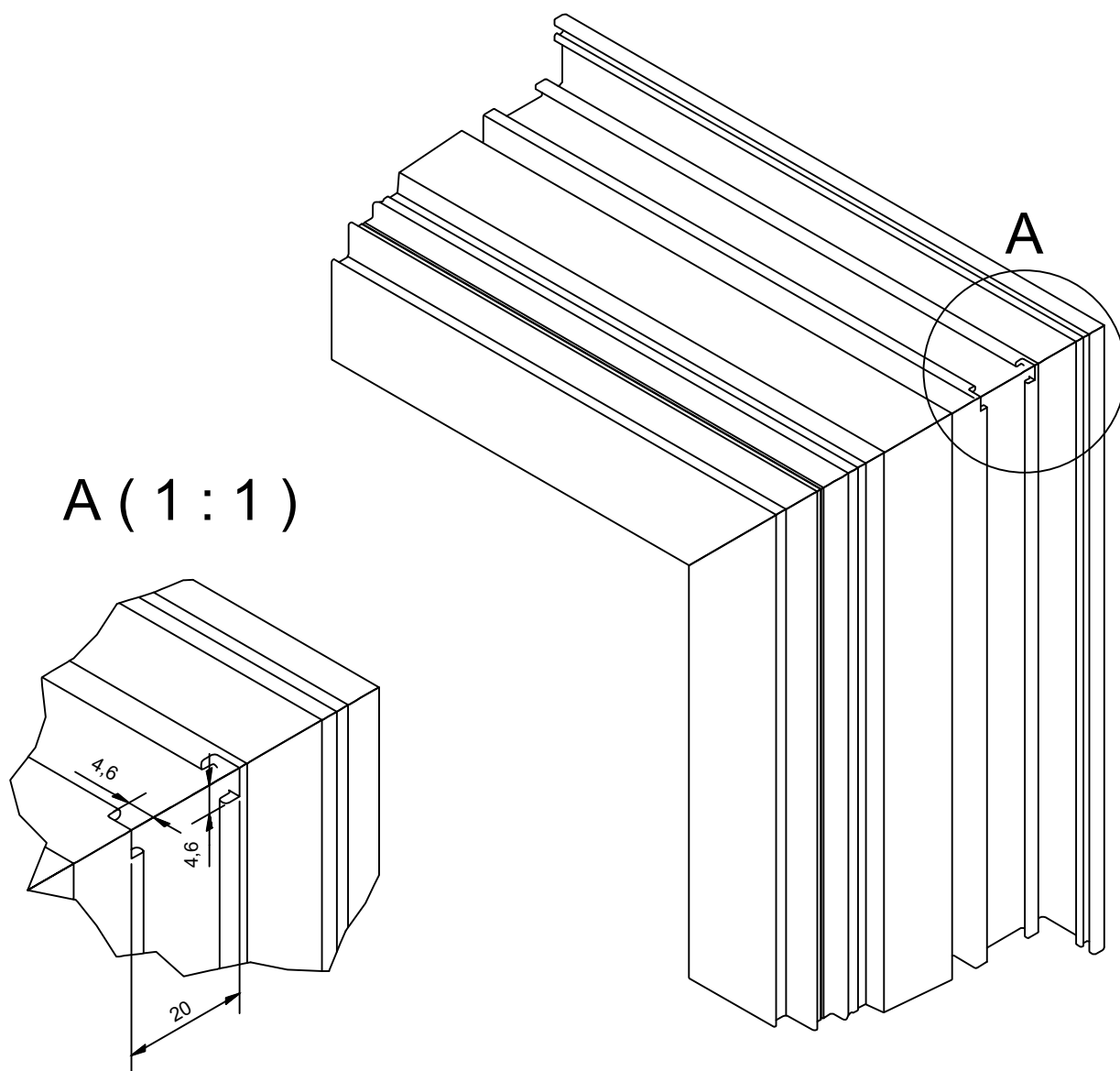
FUPA PAINIKE JA MILU LUKKOLAITE, KONEISTUS FUPA HANDLE AND MILU MORTISE LOCK, MACHINING

* Huom) FUPA poistunut 2025
* Note: FUPA discontinued in 2025



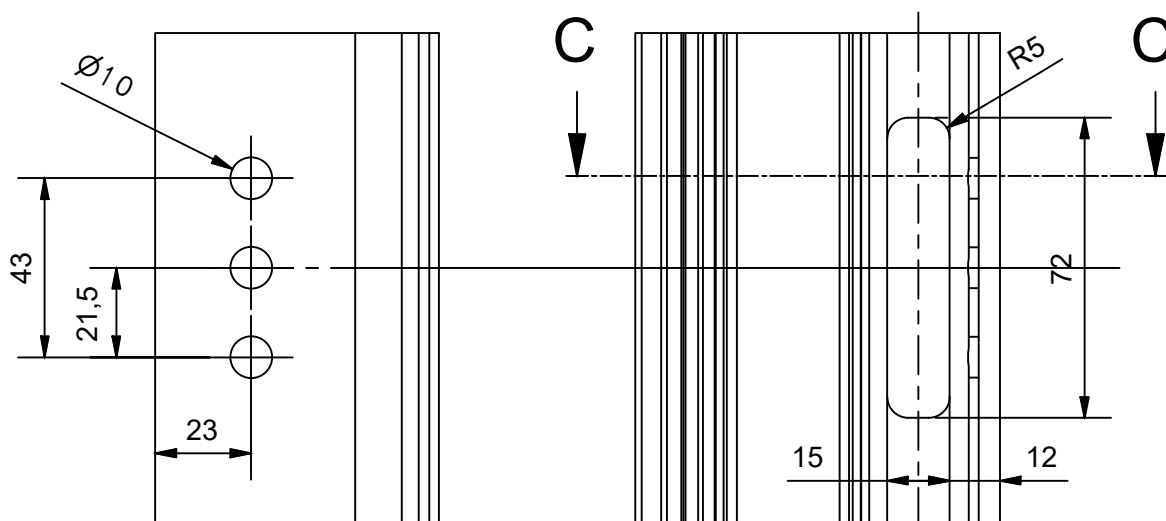
* Reikien halkaisijat painikkeen mukaan. Esim. Fuhr painikkeelle Ø10

* Diameters of the holes according to handle. Eg. for Fuhr handle Ø10

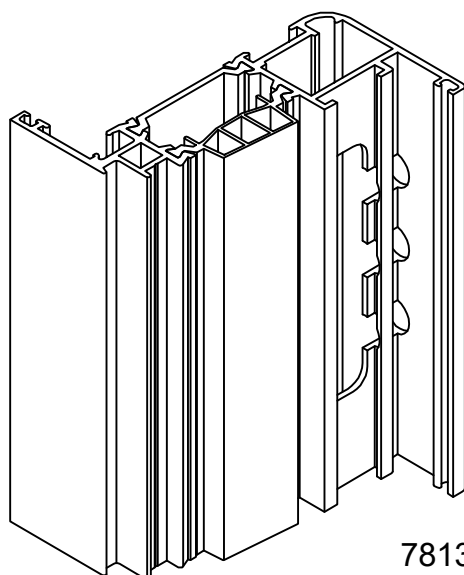
LIUKUKISKOJEN URIEN AVAUS
OPENING OF THE DRIVE GEAR GROOVES

Liukukiskojen urat avataan vain niistä ikkunapuitteen nurkista, joista helasarjan osia pujotetaan uraan.
Drive gear grooves are opened only from the corners of the window sash from where the window hardware is put in to the groove.

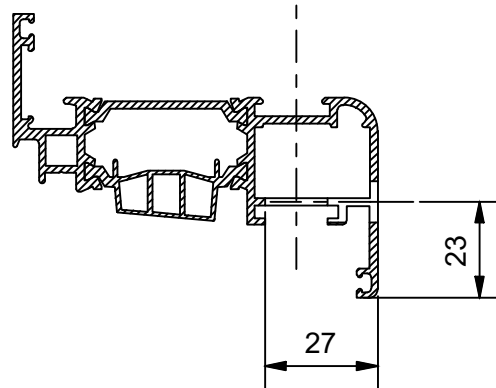
LUKKOLAITE ALU FBS-G, KONEISTUS
GEAR SET ALU FBS-G, MACHINING



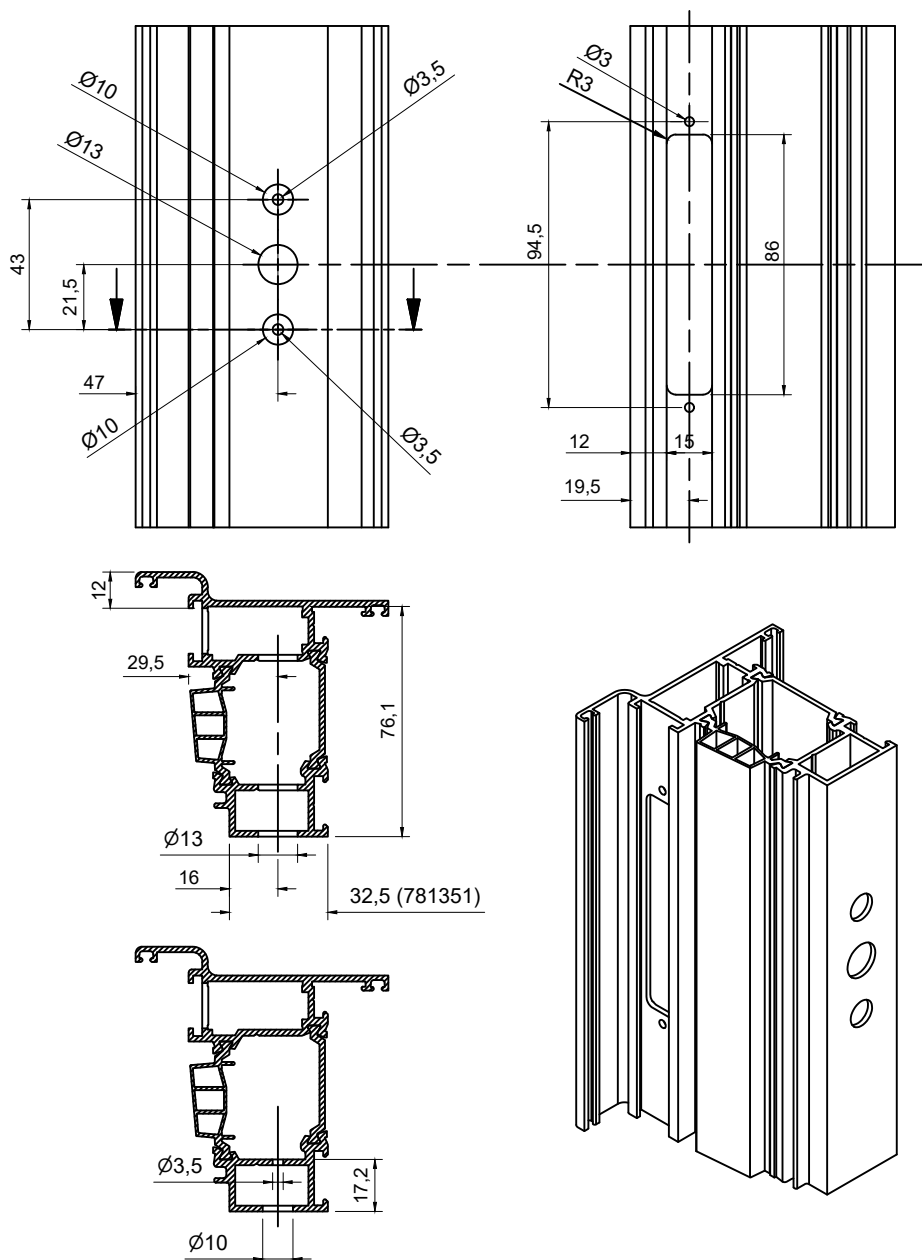
Reikien halkaisijat painikkeen mukaan.
Diameters of the holes according to handle.



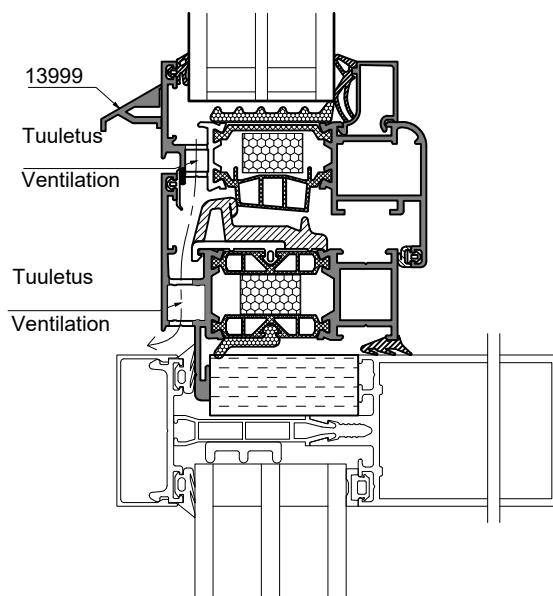
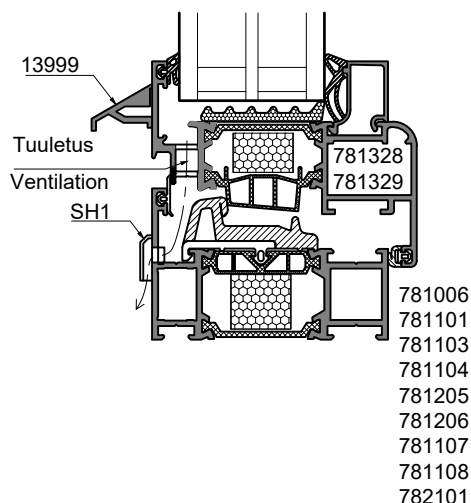
781328
781329



LUKKOLAITE 04093, KONEISTUS
GEAR SET 04093 , MACHINING

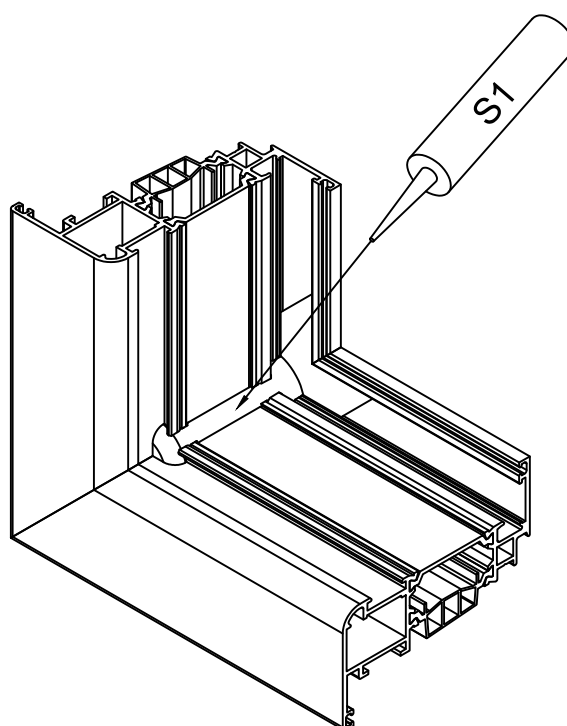
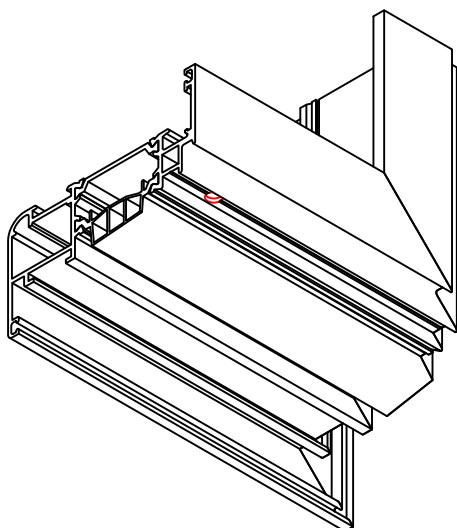
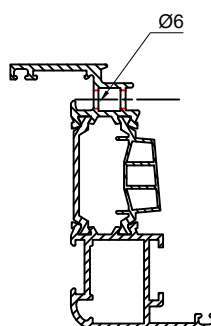
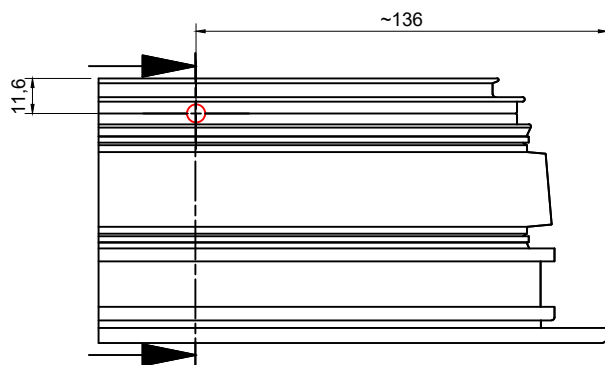
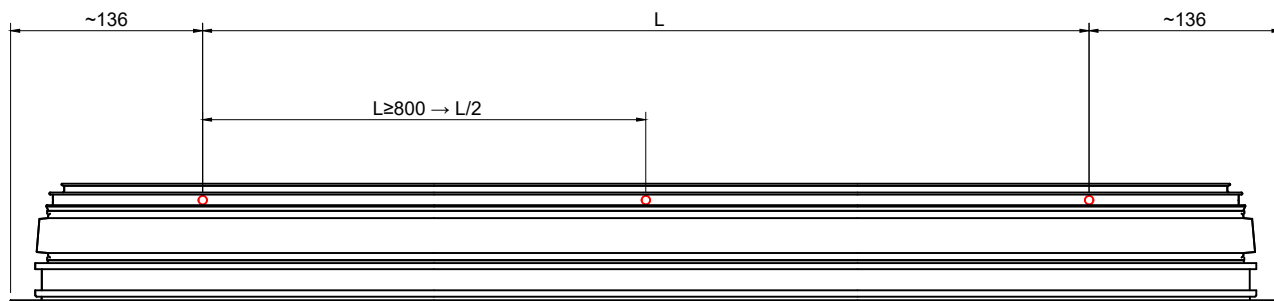


SISÄÄNAUKEAVAN IKKUNAN LASITILAN TUULETUS VENTILATION OF REBATE SPACE IN INSIDE OPENING WINDOW



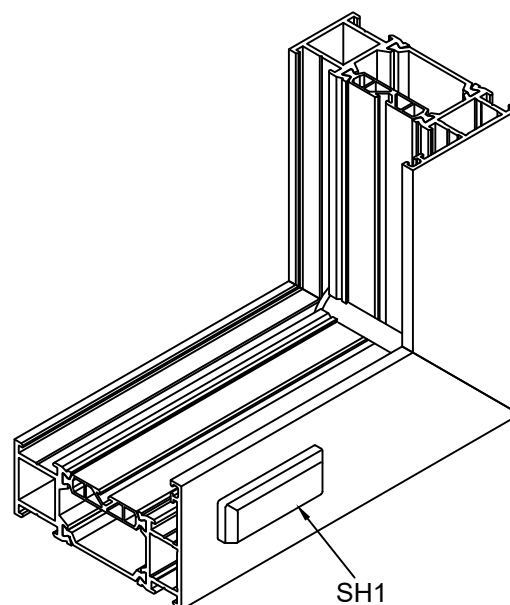
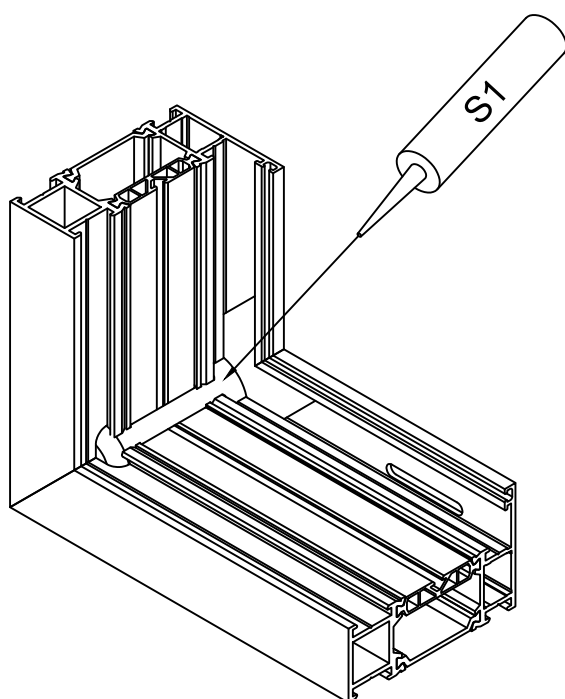
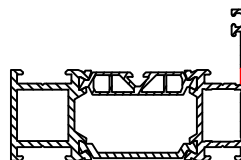
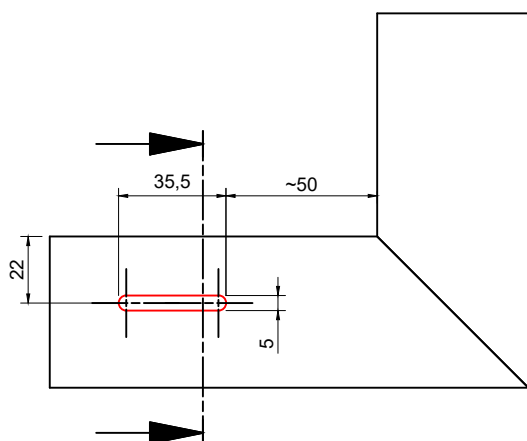
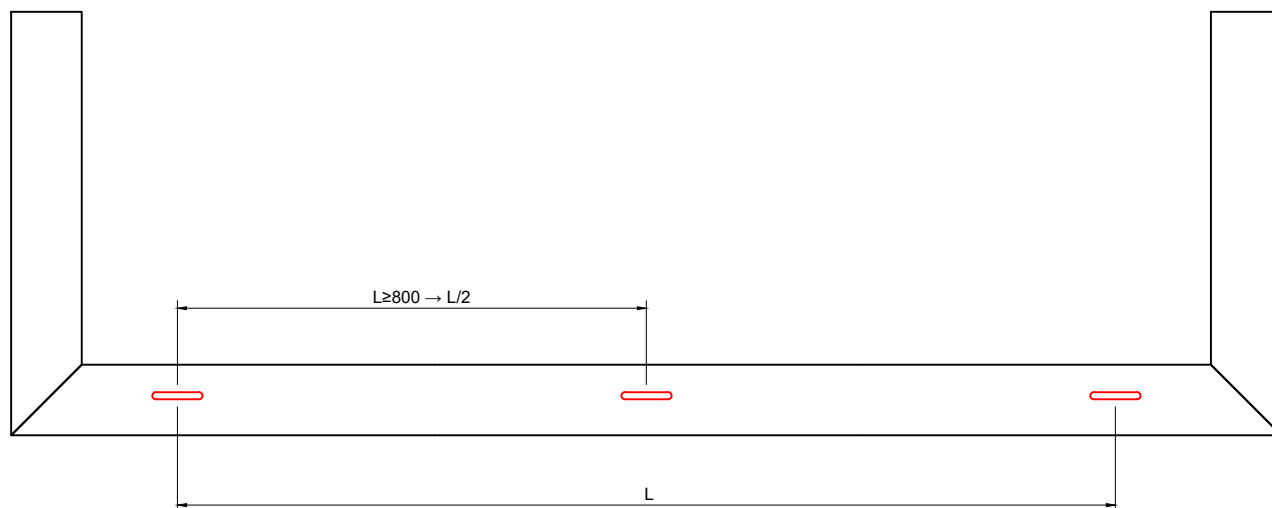
SISÄÄNAUKEAVAN IKKUNAN LASITILAN TUULETUS

VENTILATION OF REBATE SPACE IN INSIDE OPENING WINDOW



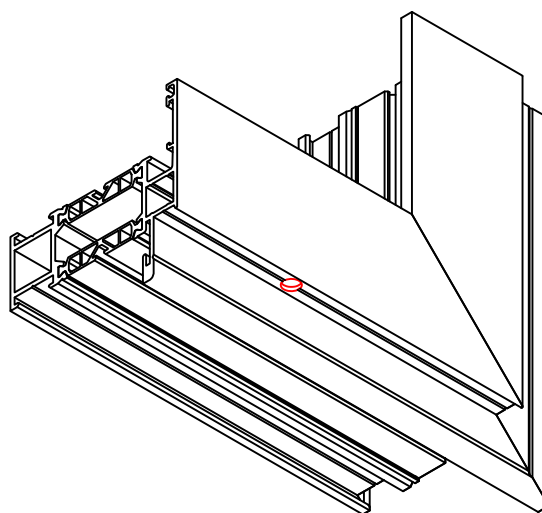
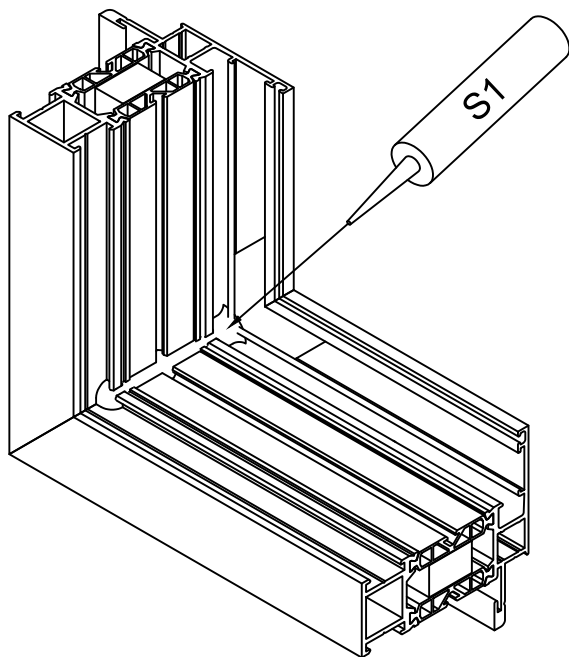
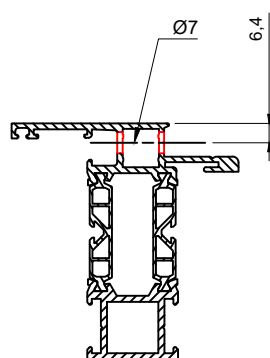
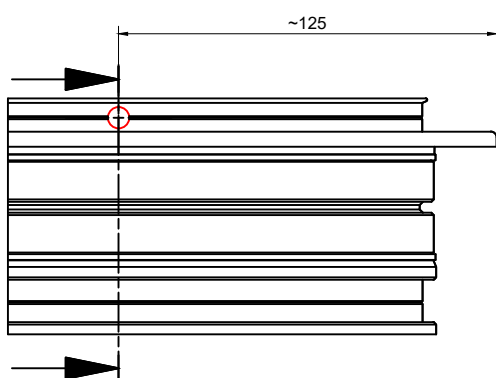
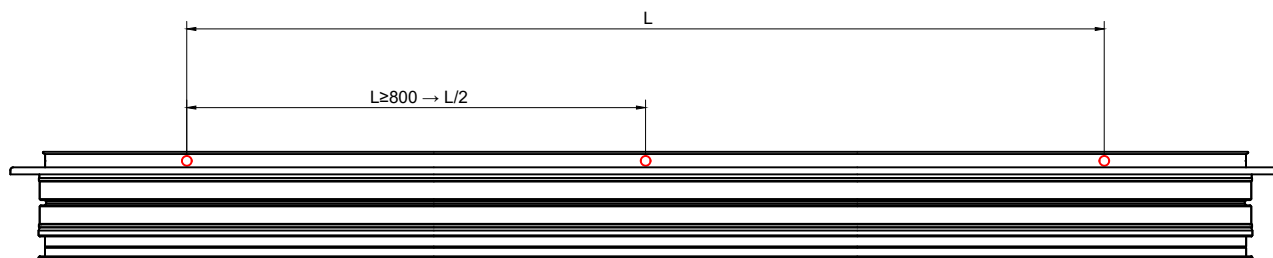
SISÄÄNAUKEAVAN IKKUNAN LASITILAN TUULETUS

VENTILATION OF REBATE SPACE IN INSIDE OPENING WINDOW

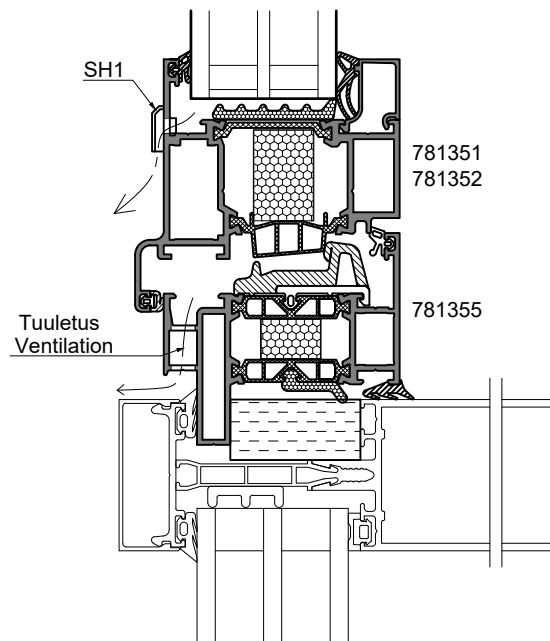
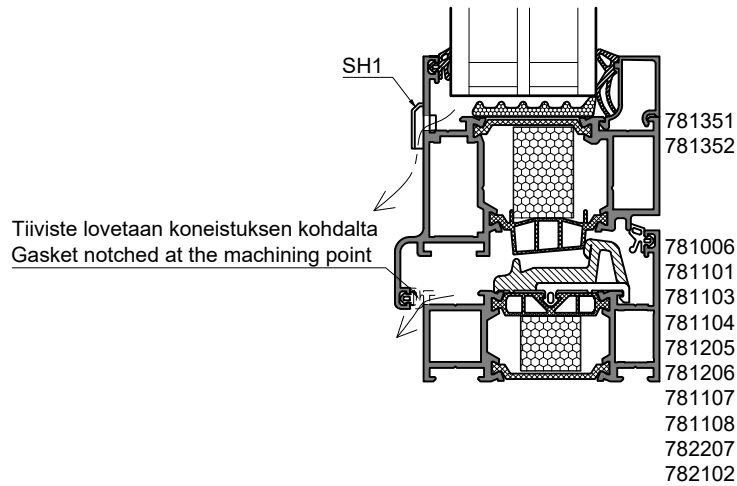


SISÄÄNAUKEAVAN IKKUNAN LASITILAN TUULETUS

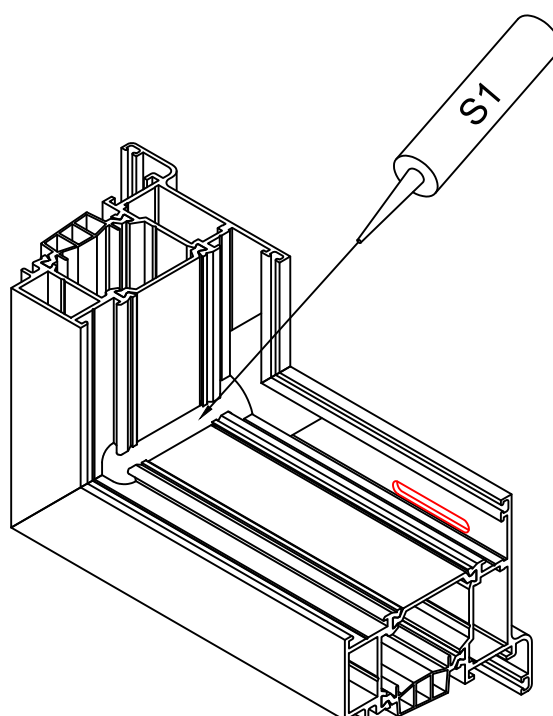
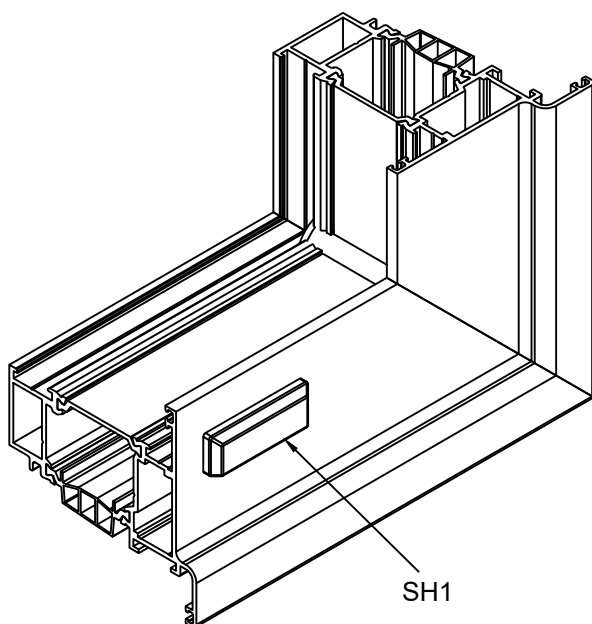
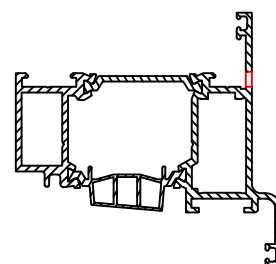
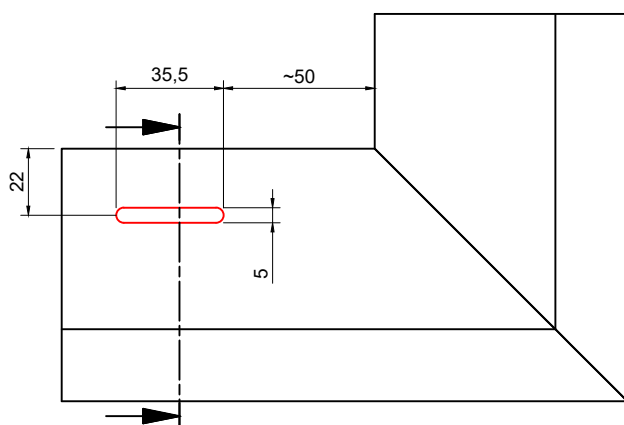
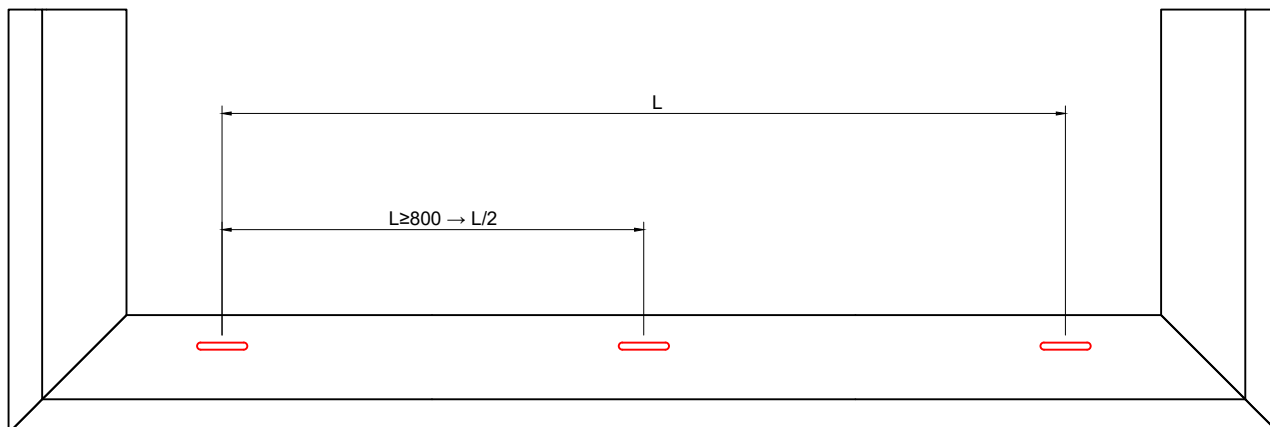
VENTILATION OF REBATE SPACE IN INSIDE OPENING WINDOW



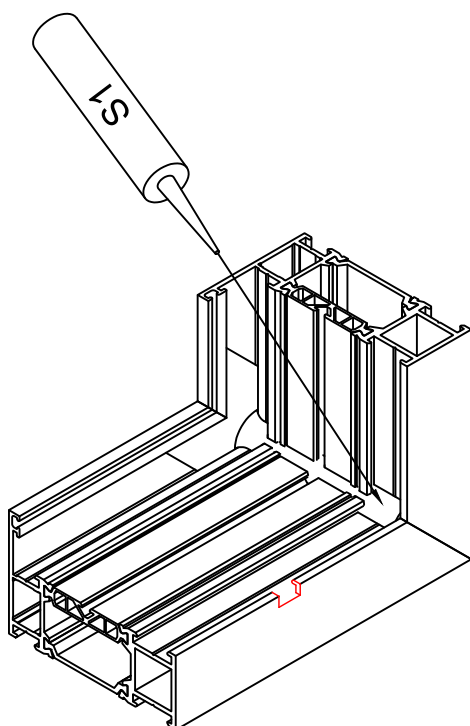
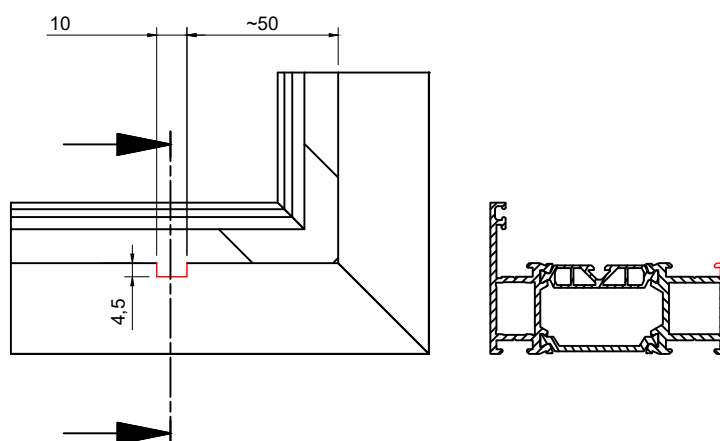
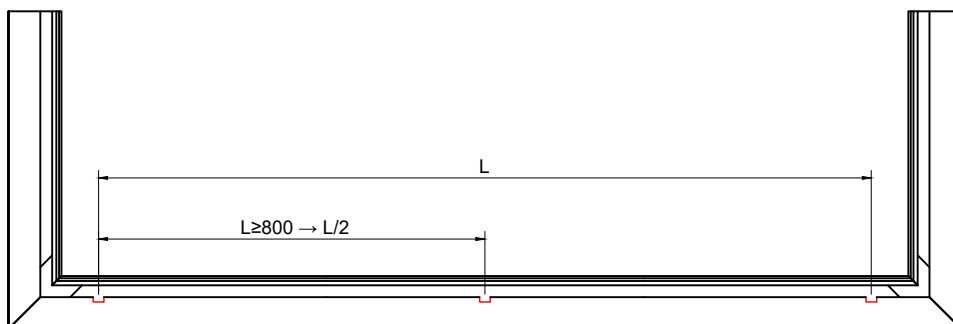
ULOSNAUKEAVAN IKKUNAN LASITILAN TUULETUS VENTILATION OF REBATE SPACE OUTSIDE OPENING WINDOW



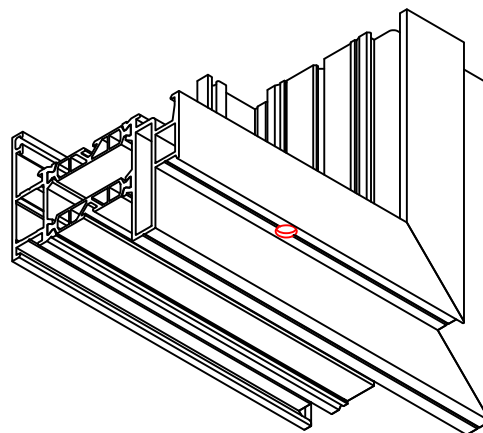
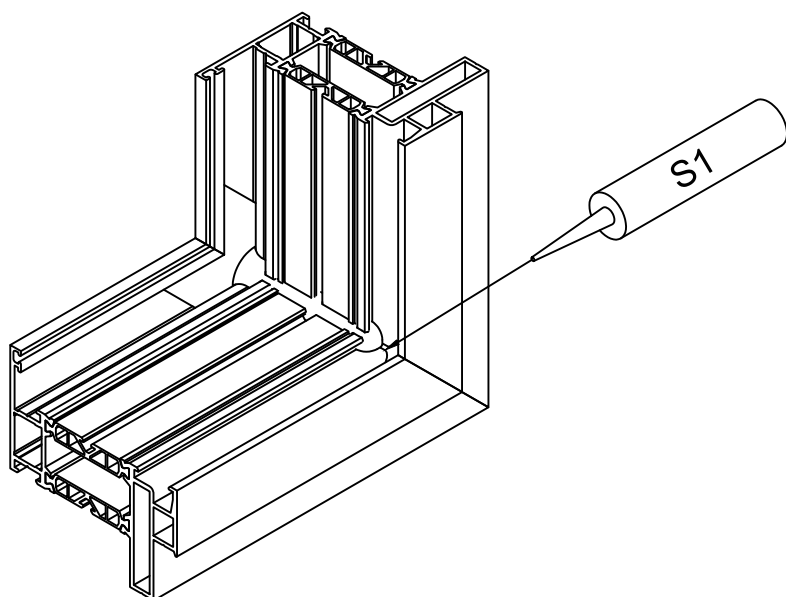
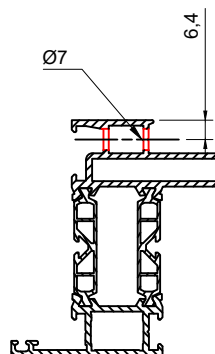
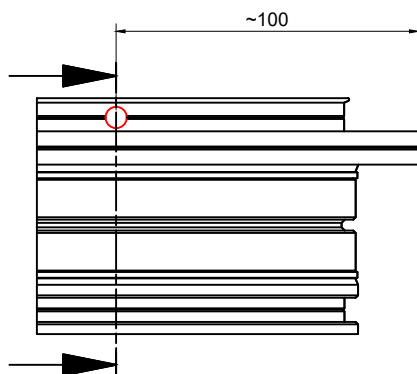
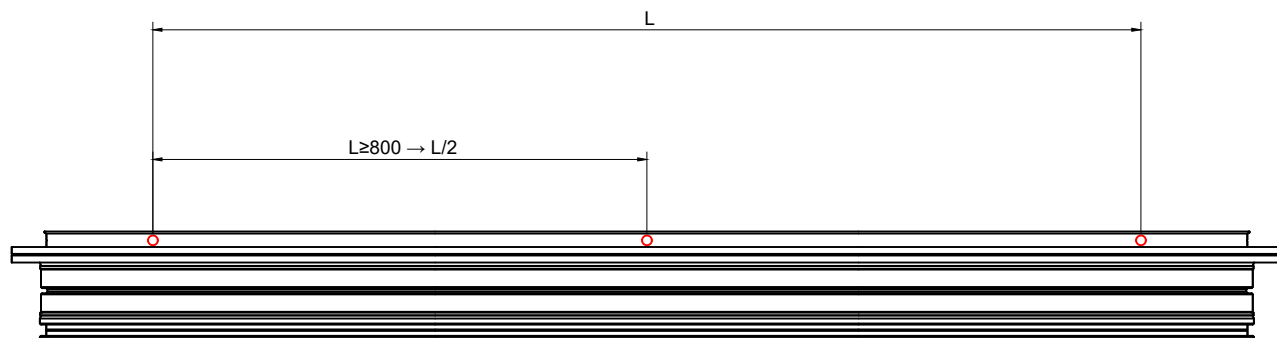
ULOSNAUKEAVAN IKKUNAN LASITILAN TUULETUS VENTILATION OF REBATE SPACE OUTSIDE OPENING WINDOW



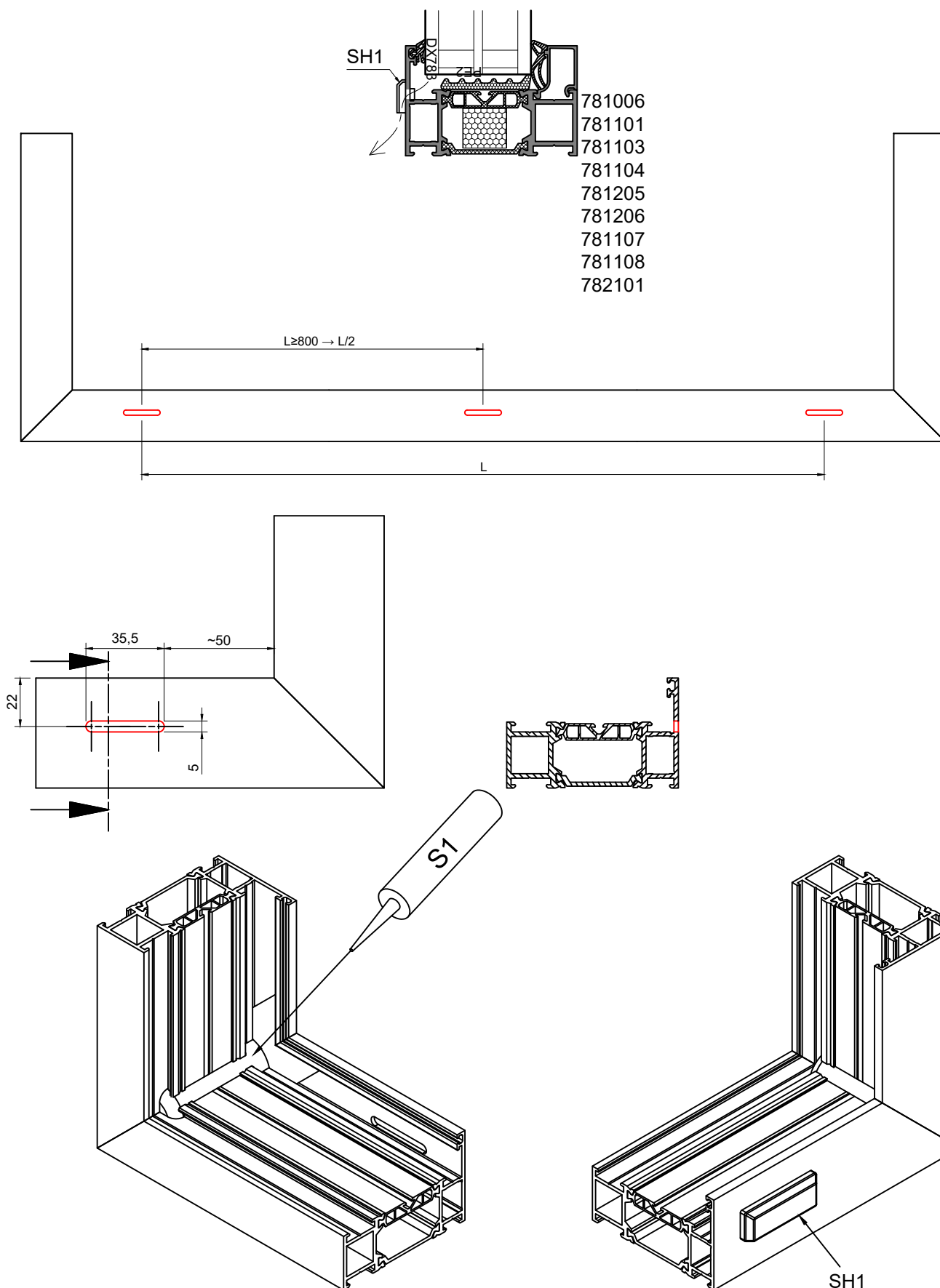
ULOSNAUKEAVAN IKKUNAN LASITILAN TUULETUS VENTILATION OF REBATE SPACE OUTSIDE OPENING WINDOW



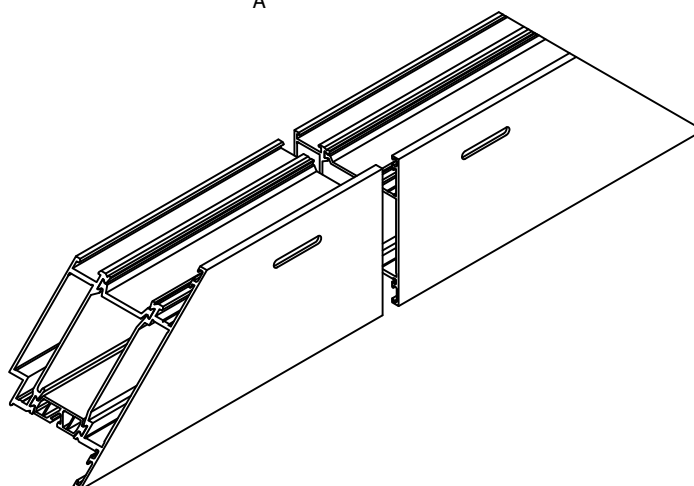
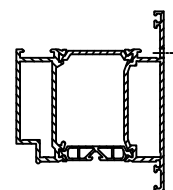
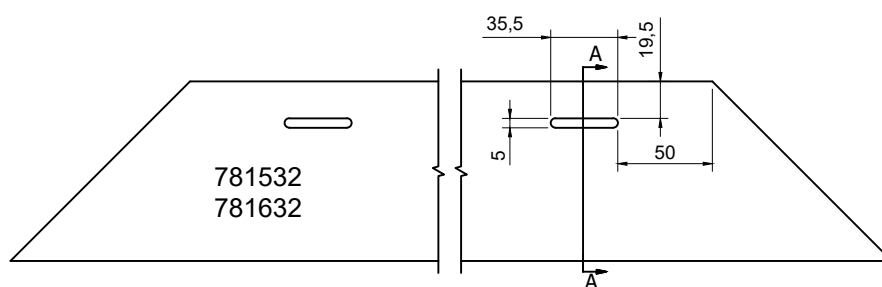
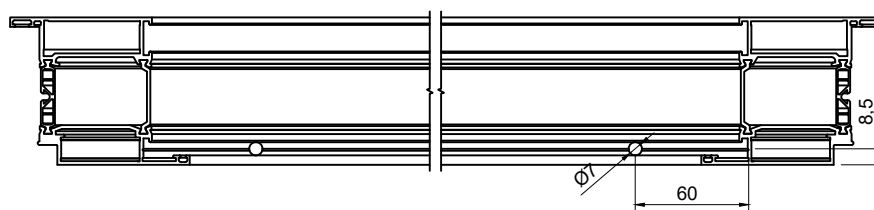
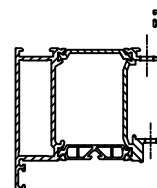
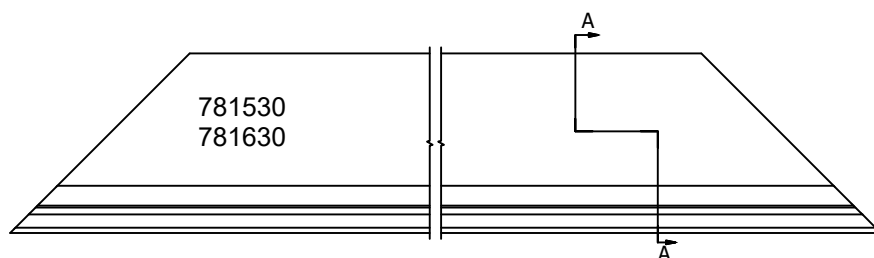
ULOSNAUKEAVAN IKKUNAN LASITILAN TUULETUS VENTILATION OF REBATE SPACE OUTSIDE OPENING WINDOW



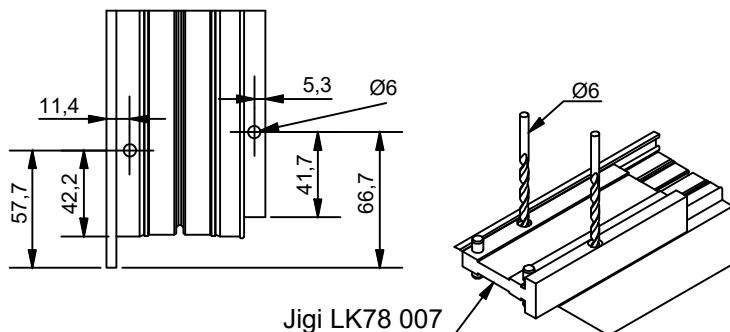
KIINTEÄN IKKUNAN LASITILAN TUULETUS VENTILATION OF REBATE SPACE FIXED WINDOW



OVEN PUITTEEN TUULETUSREIÄT
DOOR SASH VENTILATION

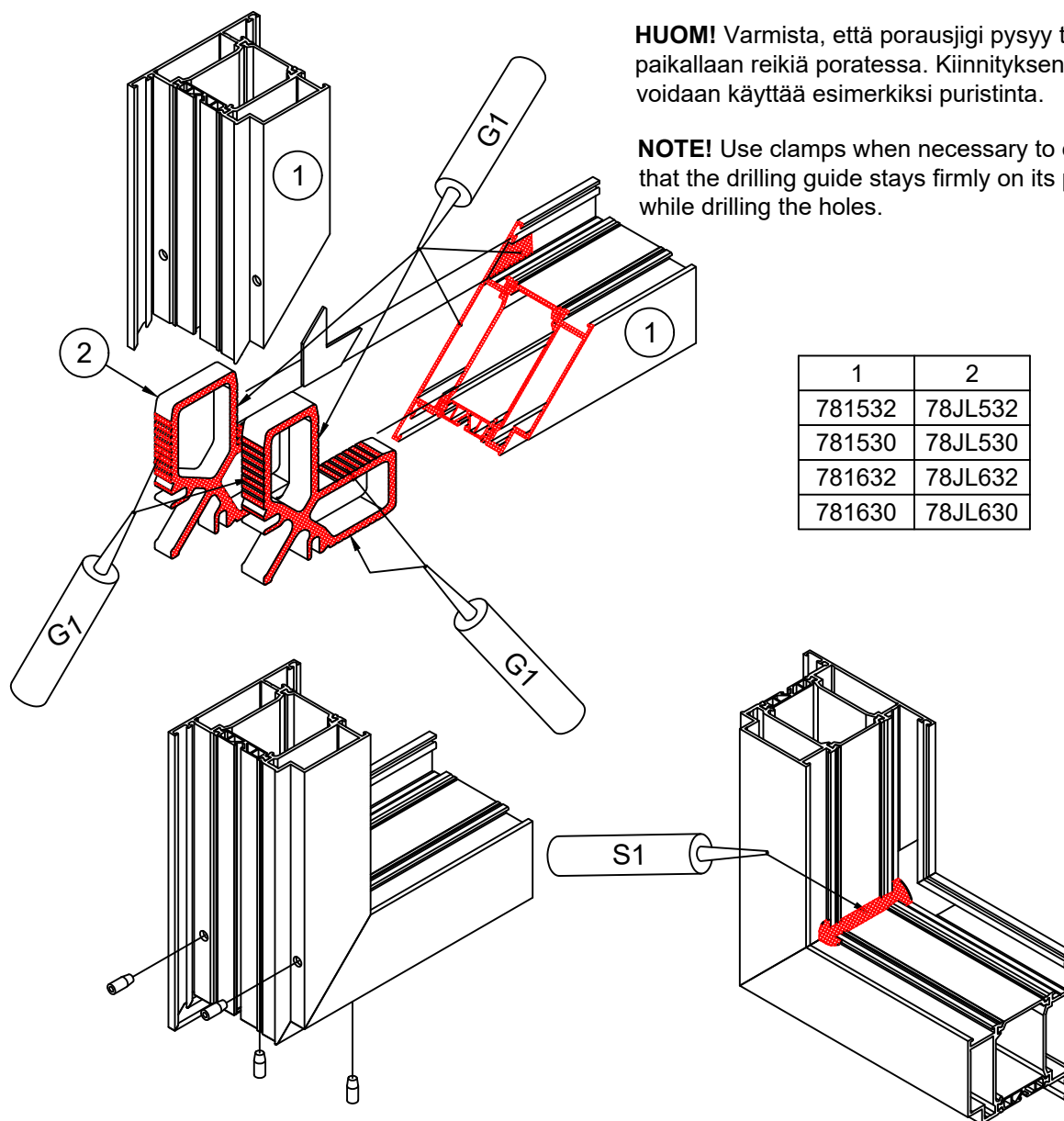


OVILEHTIPROFIILIN JIIRILIITOS DOOR LEAF MITRE JOINT



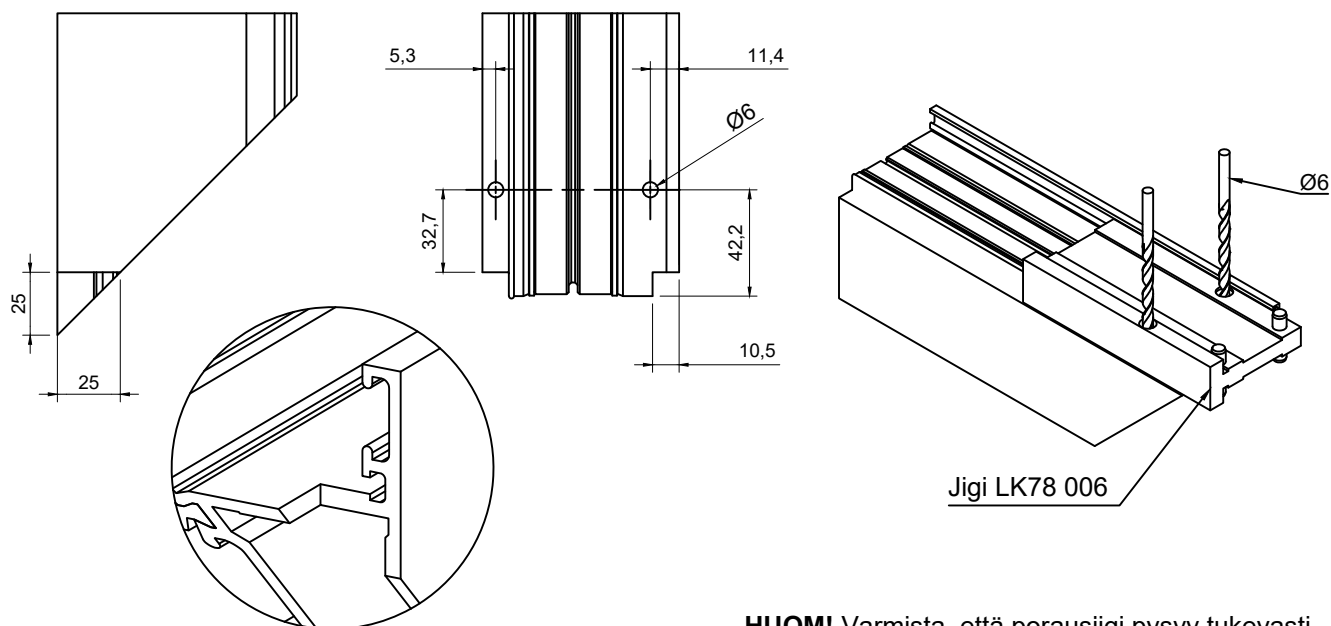
HUOM! Varmista, että porausjigi pysyy tukevasti paikallaan reikiä poratessa. Kiinnityksen apuna voidaan käyttää esimerkiksi puristinta.

NOTE! Use clamps when necessary to ensure that the drilling guide stays firmly on its place while drilling the holes.



OVILEHTIPROFIILIEN 781530/532, 781630/632 JIIRILIITOS

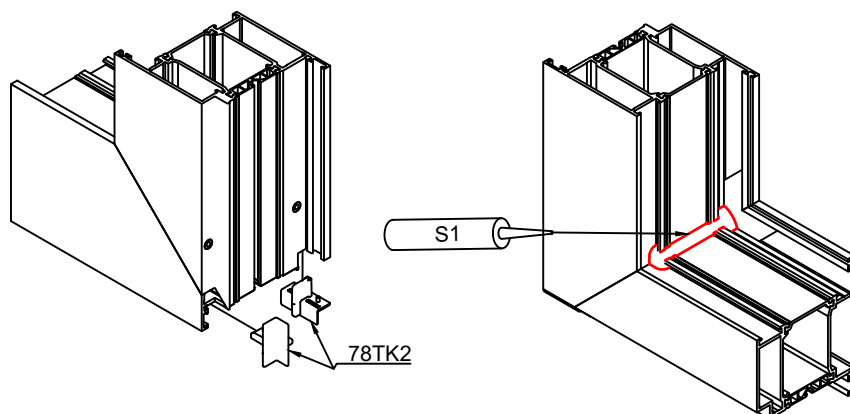
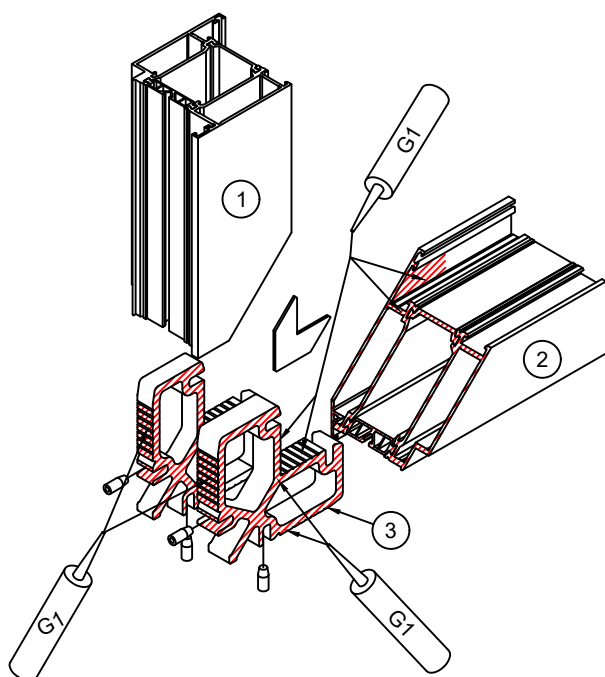
DOOR LEAF PROFILE 781530/532, 781630/632 MITRE JOINT



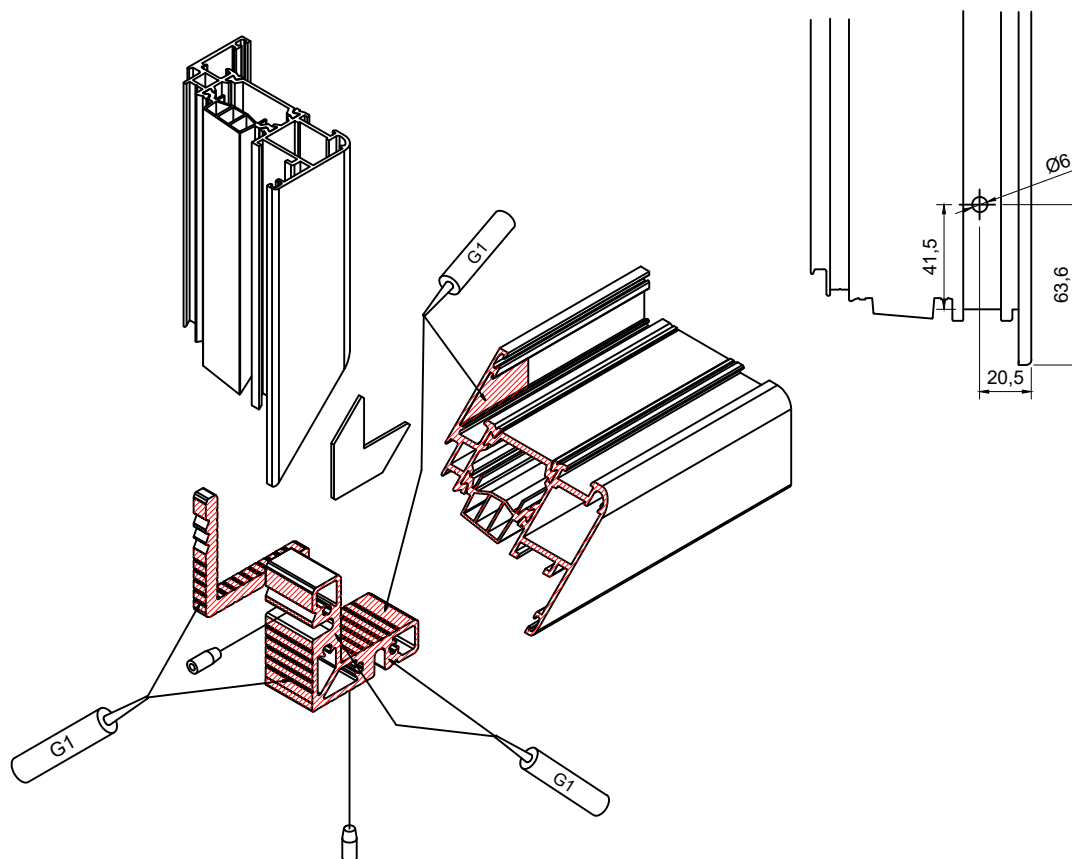
HUOM! Varmista, että porausjigi pysyy tukevasti paikallaan reikiä poratessa. Kiinnityksen apuna voidaan käyttää esimerkiksi puristinta.

NOTE! Use clamps when necessary to ensure that the drilling guide stays firmly on its place while drilling the holes.

1	2	3
781530	781532	78JL530-532
781630	781632	78JL630-632

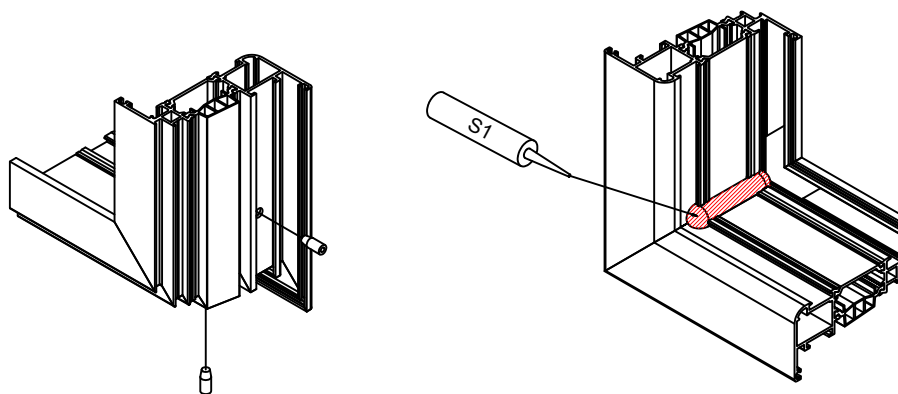


IKKUNAPUITTEEN 781328 JIIRILIITOS, KONEISTUS WINDOW SASH 781328 MITRE JOINT



Lukitus kulmapuristimella ilman koneistusta niiteille. Vaihtoehtoisesti lukitus niiteillä siten, että profiilin toinen puoli lukitaan kulmapuristimella tai liiman kuivumisen ajaksi asennetaan ECO 795 420 kulmapuristusjousi.

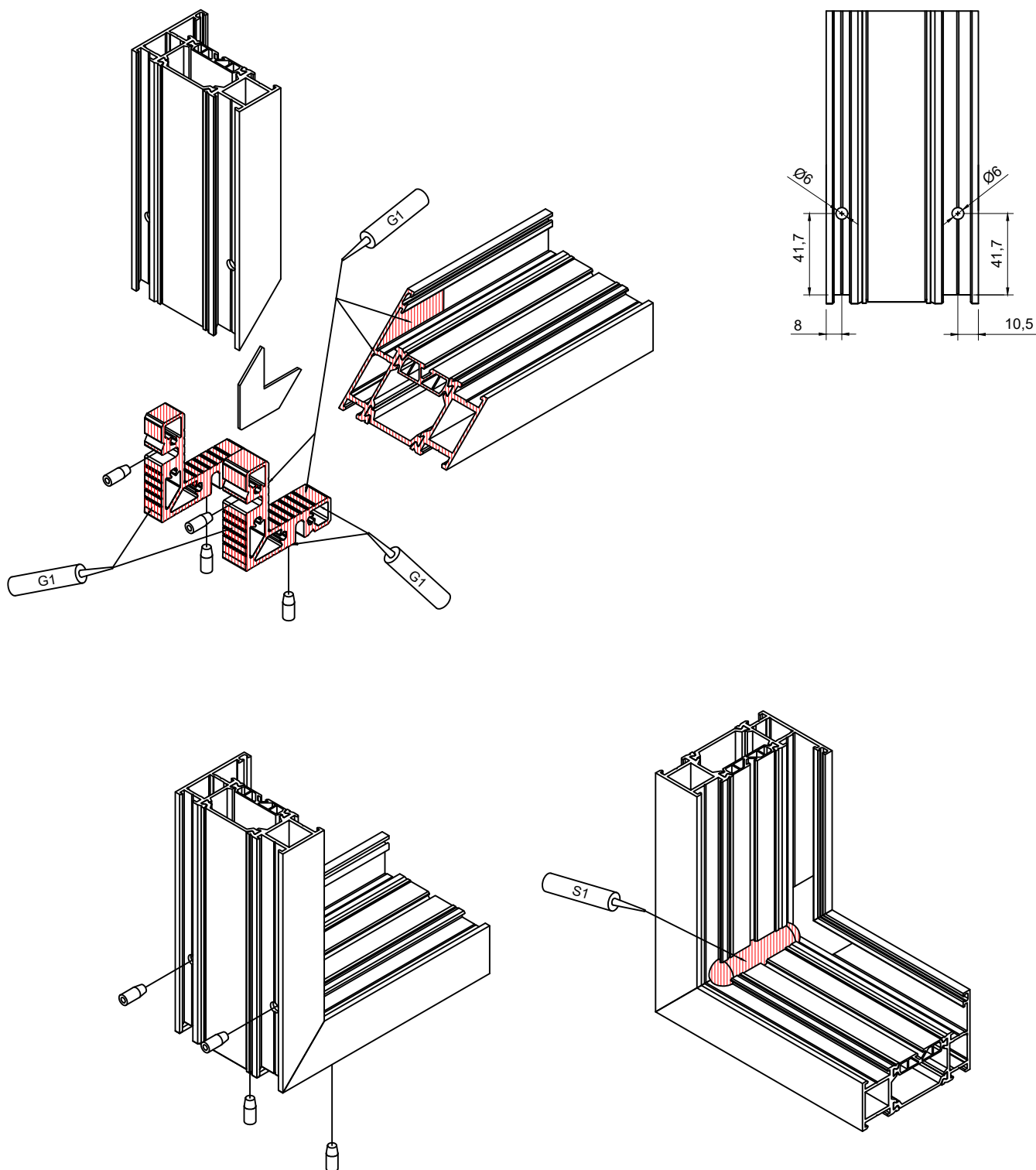
Locking by corner crimper. Alternatively, locking with pins so that the other side of the profile is locked by corner crimper or an ECO 795 420 mitre joint clamp is installed while the adhesive is drying.



G1 = Liitosliima, PU, ECO 785 100 tai vastaava
Joint glue, PU, ECO785100 or a similar

S1 = M/S-Polymeeri
M/S-Polymeer

IKKUNAN KARMIN 781206 JIIRILIITOS, KONEISTUS
WINDOW FRAME 781206 MITRE JOINT



Lukitus kulmapuristimella tai lukitustapein

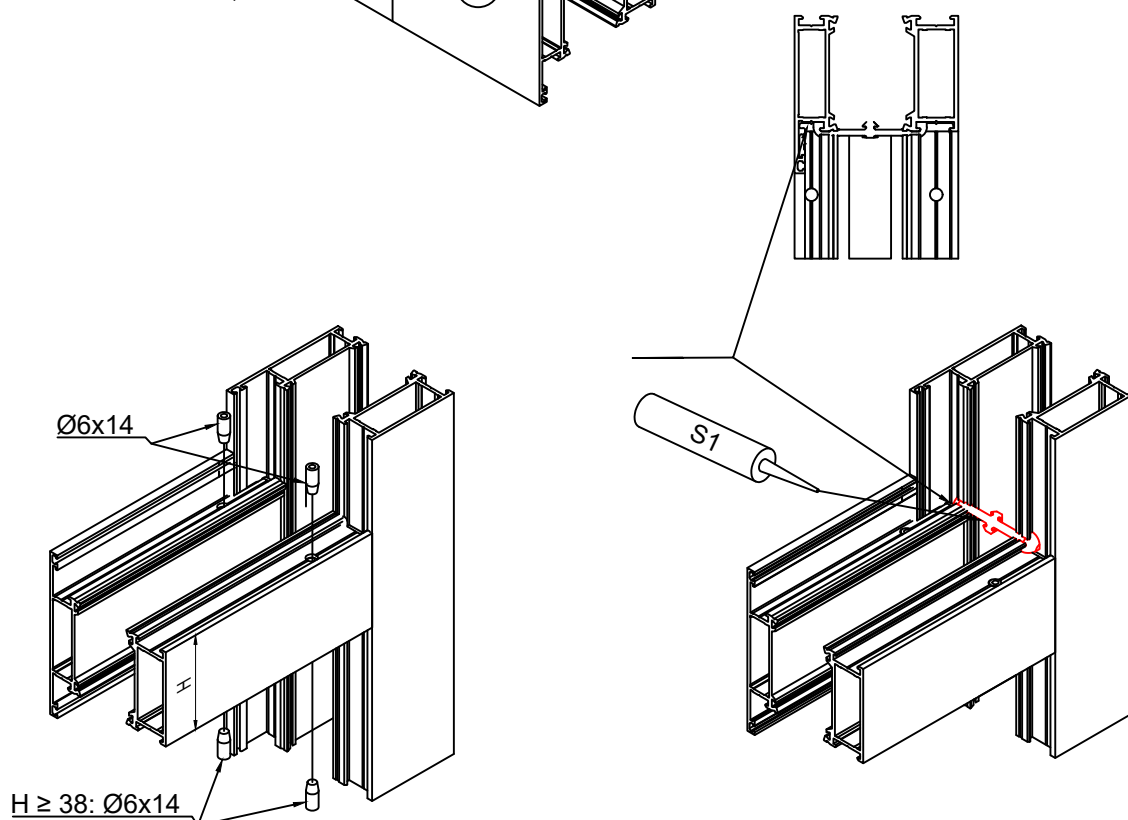
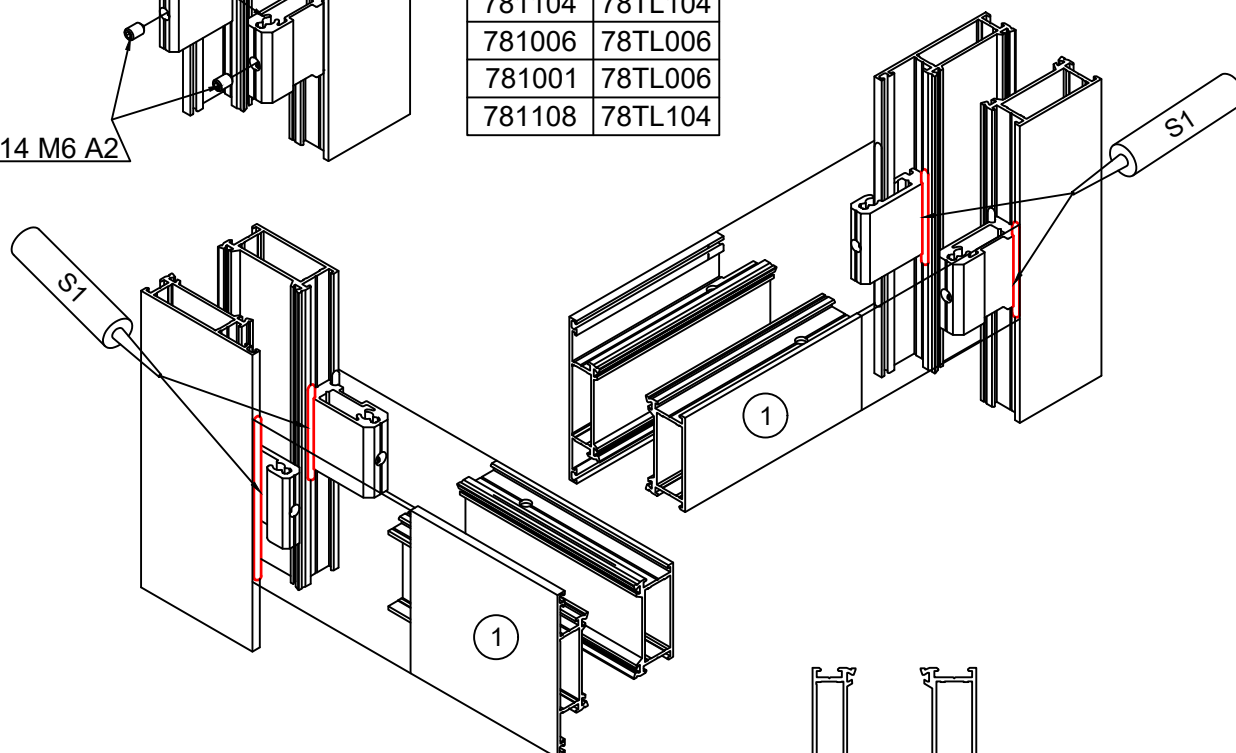
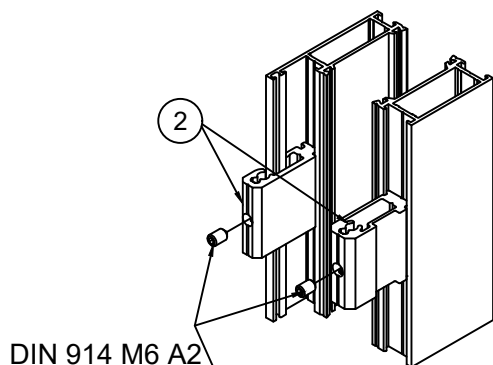
Locking by corner crimper or pin

G1 = Liitosliima, PU, ECO 785 100 tai vastaava
Joint glue, PU, ECO785100 or a similar

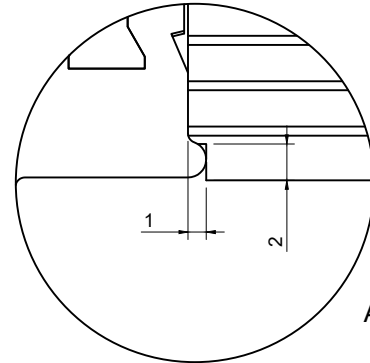
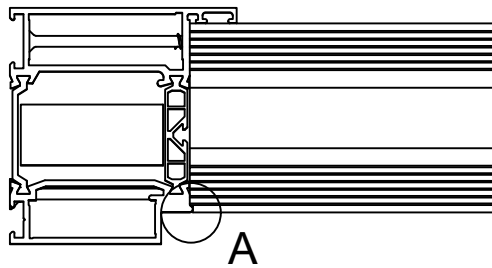
S1 = M/S-Polymeeri
M/S-Polymeer

PROFIILIEN T-LIITOS T-JOINT

1	2
781205	78TL205
781206	78TL205
781002	78TL205
781103	78TL103
781101	78TL103
781100	78TL103
781104	78TL104
781006	78TL006
781001	78TL006
781108	78TL104



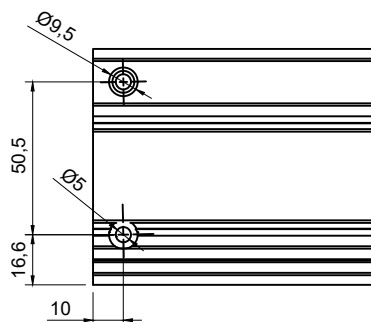
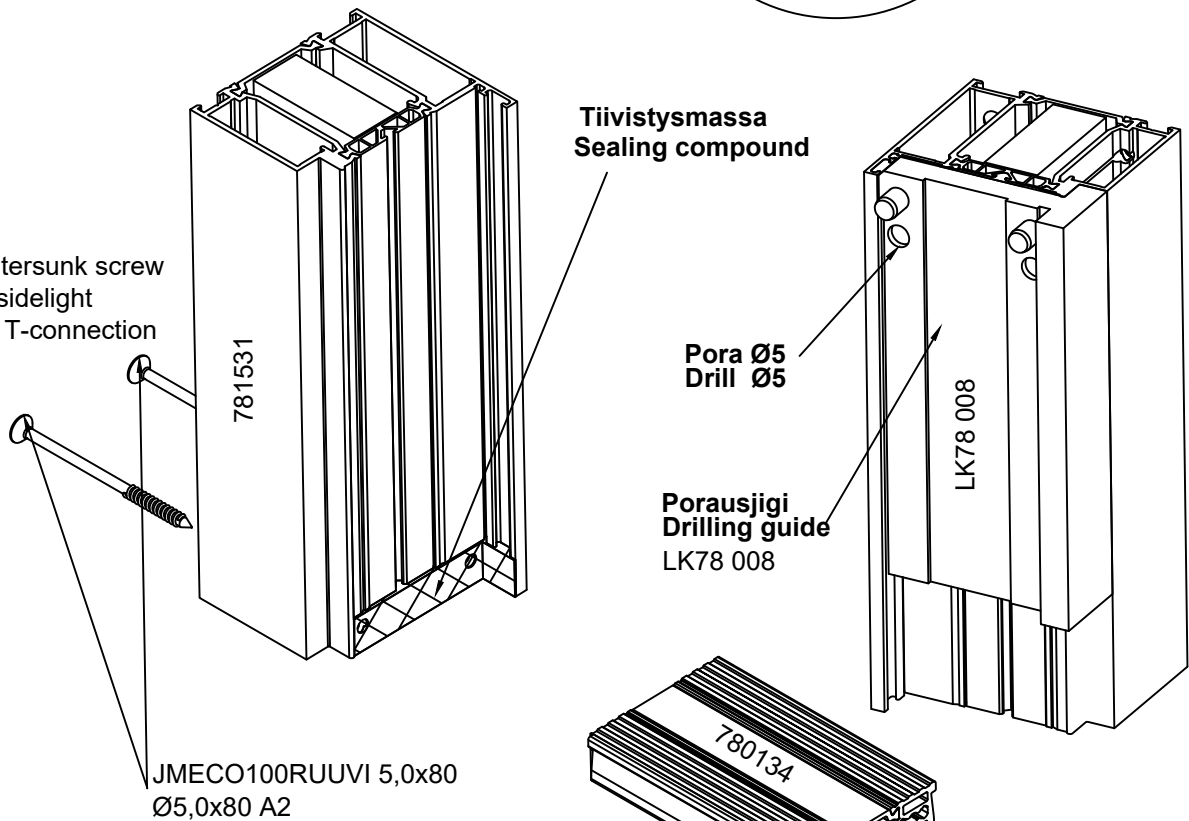
OVIKARMIPROFIILIN 781531 JA KYNNYSPROFIILIN 780134 LIITOS DOOR FRAME PROFILE 781531 AND THRESHOLD 780134 CONNECTION



A (3 : 1)

Huom!

Note! Countersunk screw hole when sidelight because of T-connection pieces.



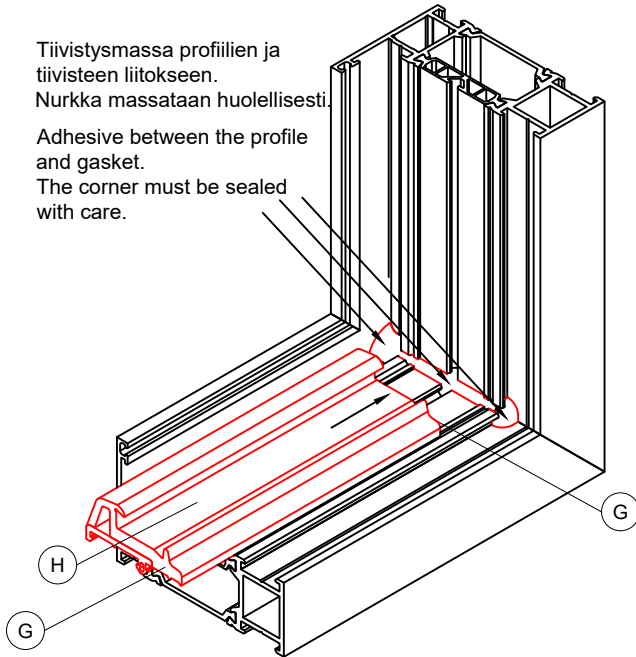
Kynnyksen ruuveja varten koneistettavat reiät senkataan 4,5 mm syvyyteen.
Machined holes of the threshold should be embedded to the 4,5 mm depth before fixing the screw

HUOM! Varmista, että porausjigi pysyy tukevasti paikallaan reikiä poratessa. Kiinnityksen apuna voidaan käyttää esimerkiksi puristinta.

NOTE! Use clamps when necessary to ensure that the drilling guide stays firmly on its place while drilling the holes.

IKKUNAN PÄÄTIIVISTEEN PT781 LIITTÄMINEN WINDOW MAIN GASKET PT781 INSTALLATION

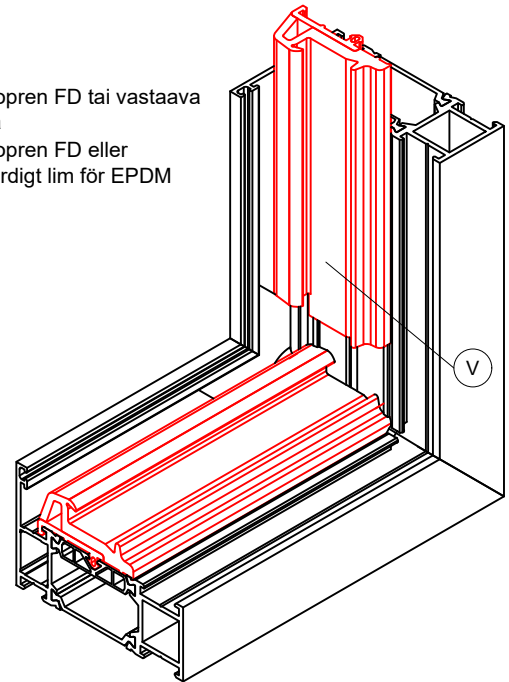
Tiivistysmassa profiilien ja tiivisteiden liitokseen.
Nurkka massataan huolellisesti.
Adhesive between the profile and gasket.
The corner must be sealed with care.



1. Vaakatiivisteet (H), suorakatkaistu 90°
2. Liimaa leikkauspinnat (G)
3. Asenna tiivisteiden päät kulmiin, lopuksi paina keskiosa paikoilleen.

1. Horizontal gasket (H), straight cut end 90°
2. Glue straight surface (G)
3. Hook, attach, slide to corner

Fenopren FD tai vastaava liima
Fenopren FD eller likvärdigt lim för EPDM

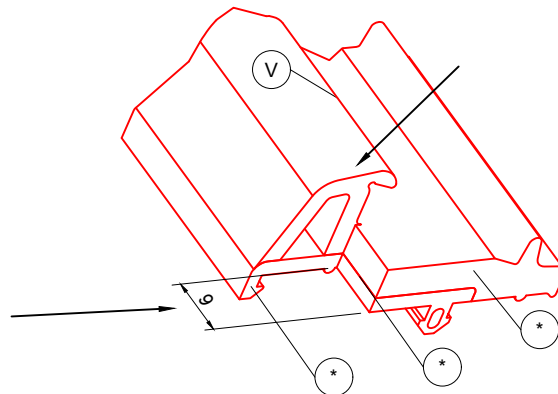


**HUOM!
IMPORTANT!**

TIIVISTEIDEN TULEE OLLA 5% PIDEMPPIÄ
KUIN ASENNUSKOHTA!

GASKETS MUST BE 5% LONGER THAN
THE INSTALLATION LOCATION!

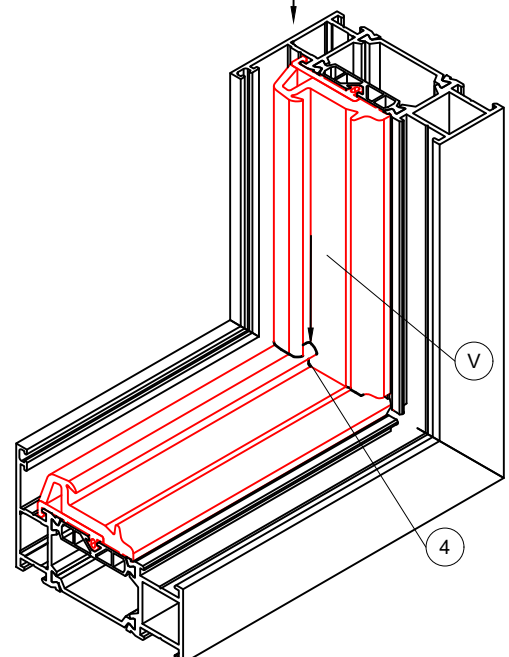
VAIN pystytiivisteet lovetaan
ONLY vertical gaskets will be notched



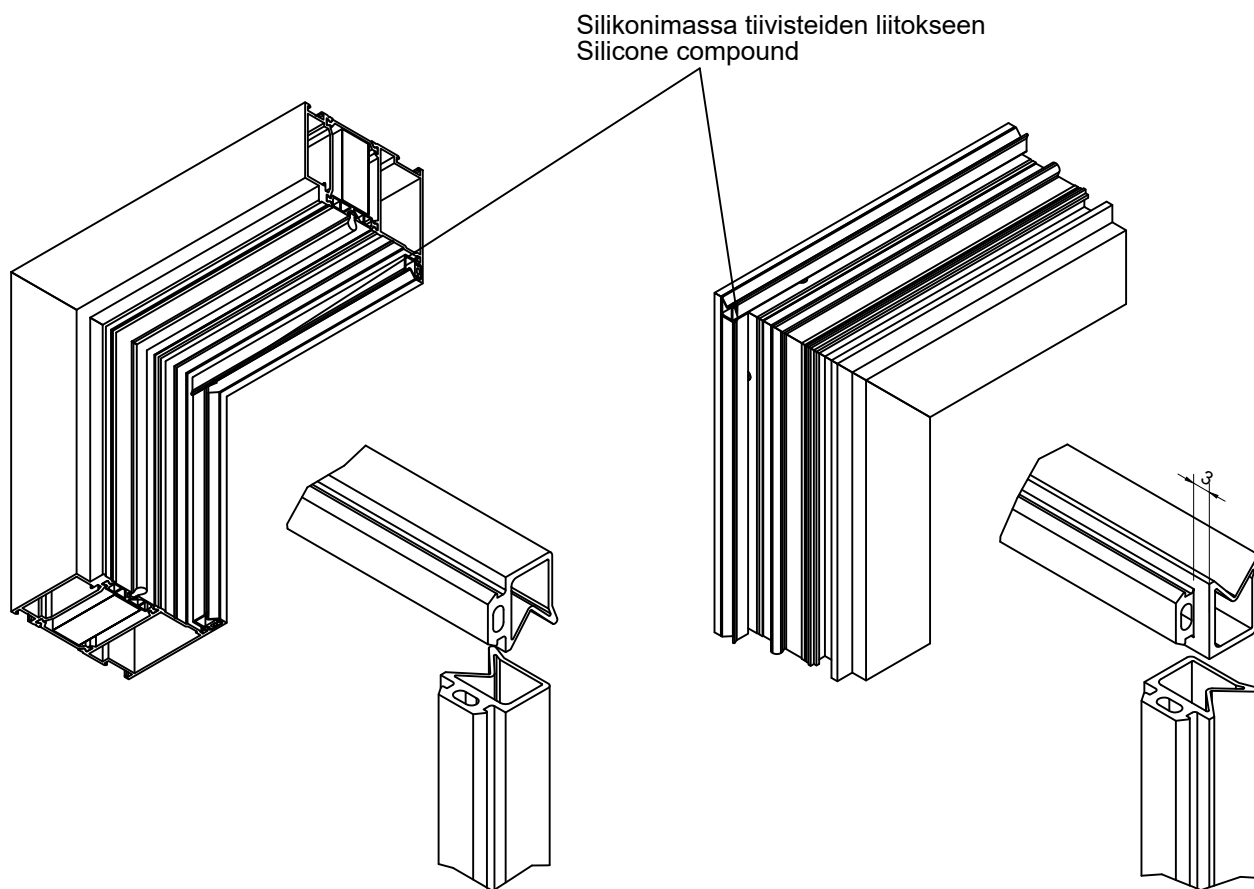
1. Pystytiivisteet (V), lovikatkaisu (9 mm pois kulmasta)
2. Liimaa leikkauspinnat *
3. Tiivisteiden pää paikoilleen lähelle nurkkaa ja liutetaan vielä lähelle nurkkaa
4. Tiivistä liitoskohta pienellä liimamäärällä

1. Vertical gasket (V), notched end. (cut 9mm off)
2. Glue cut surface (*)
3. Hook, attach, slide to corner
4. Put little extra glue in corner between gaskets

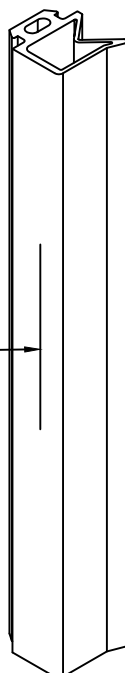
Liu'uta kulmaan
Slide against corner



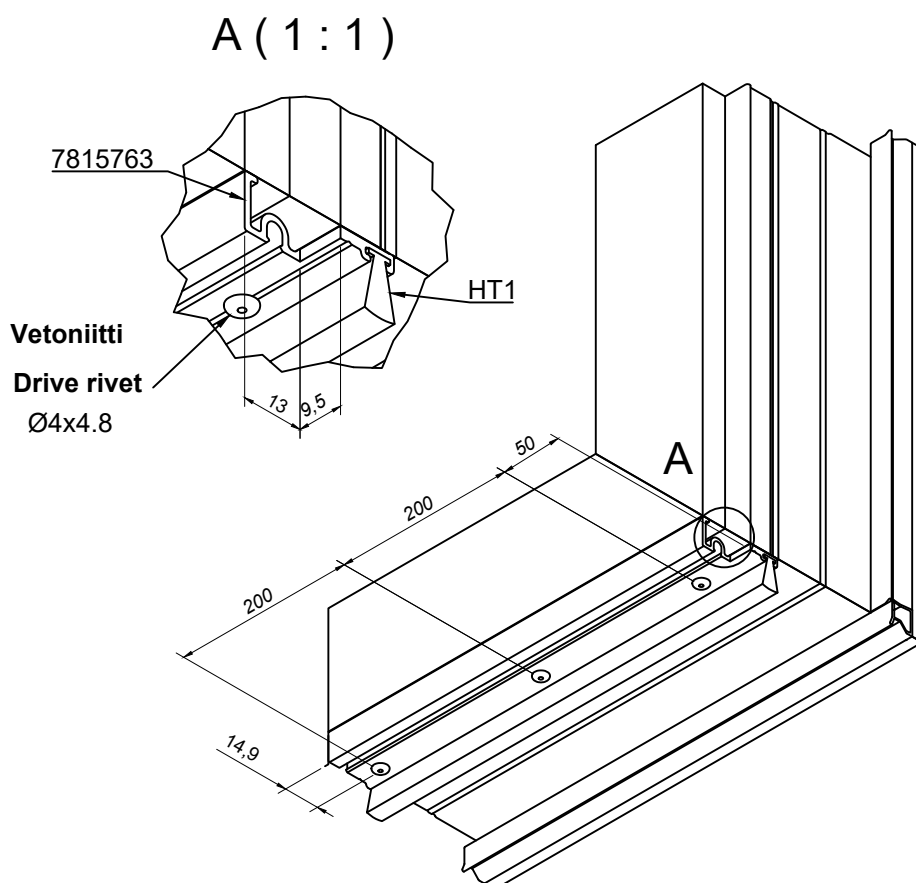
OVEN HUULLOSTIIVISTEEN DX781 LIITTÄMINEN REBATE GASKET DX781 JOINT



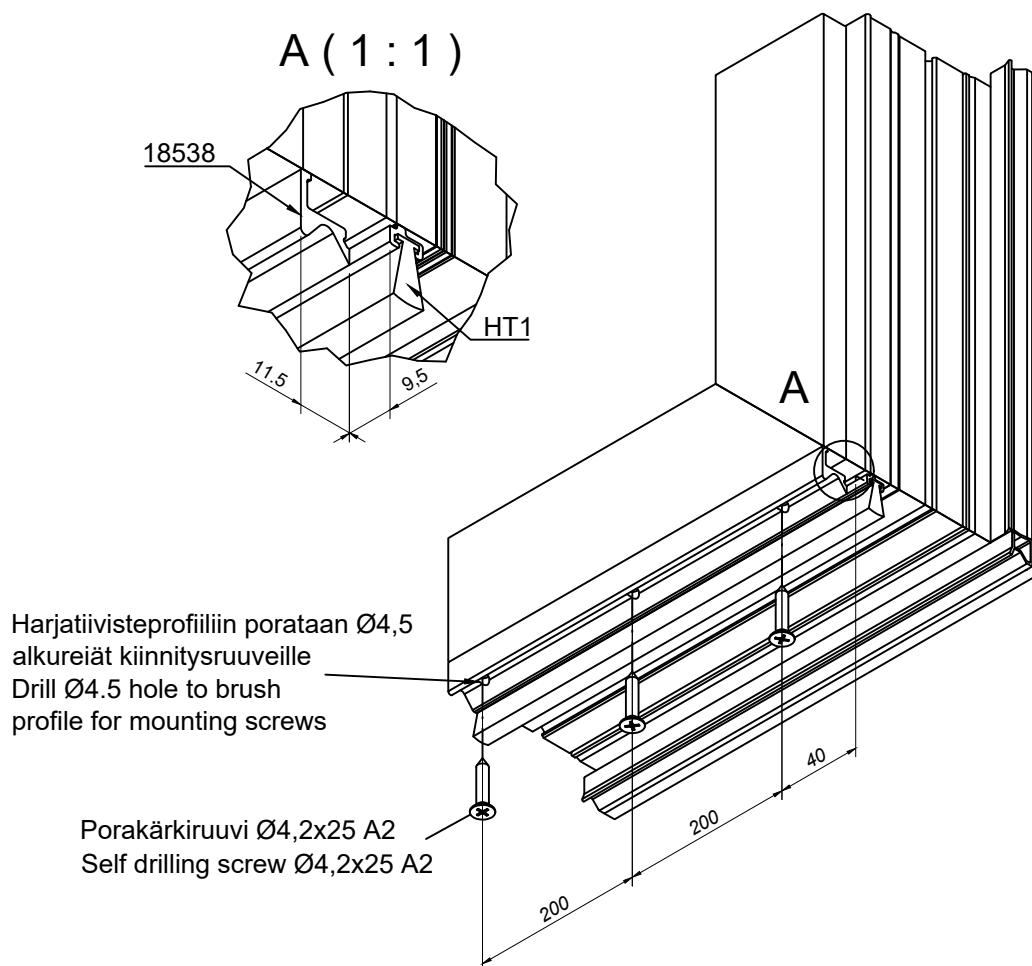
Paineentasaus viillot L~30mm
K1000 lukkopuolen tiivisteissä
Cutting L~30mm c/c 1000 on
lock side gasket



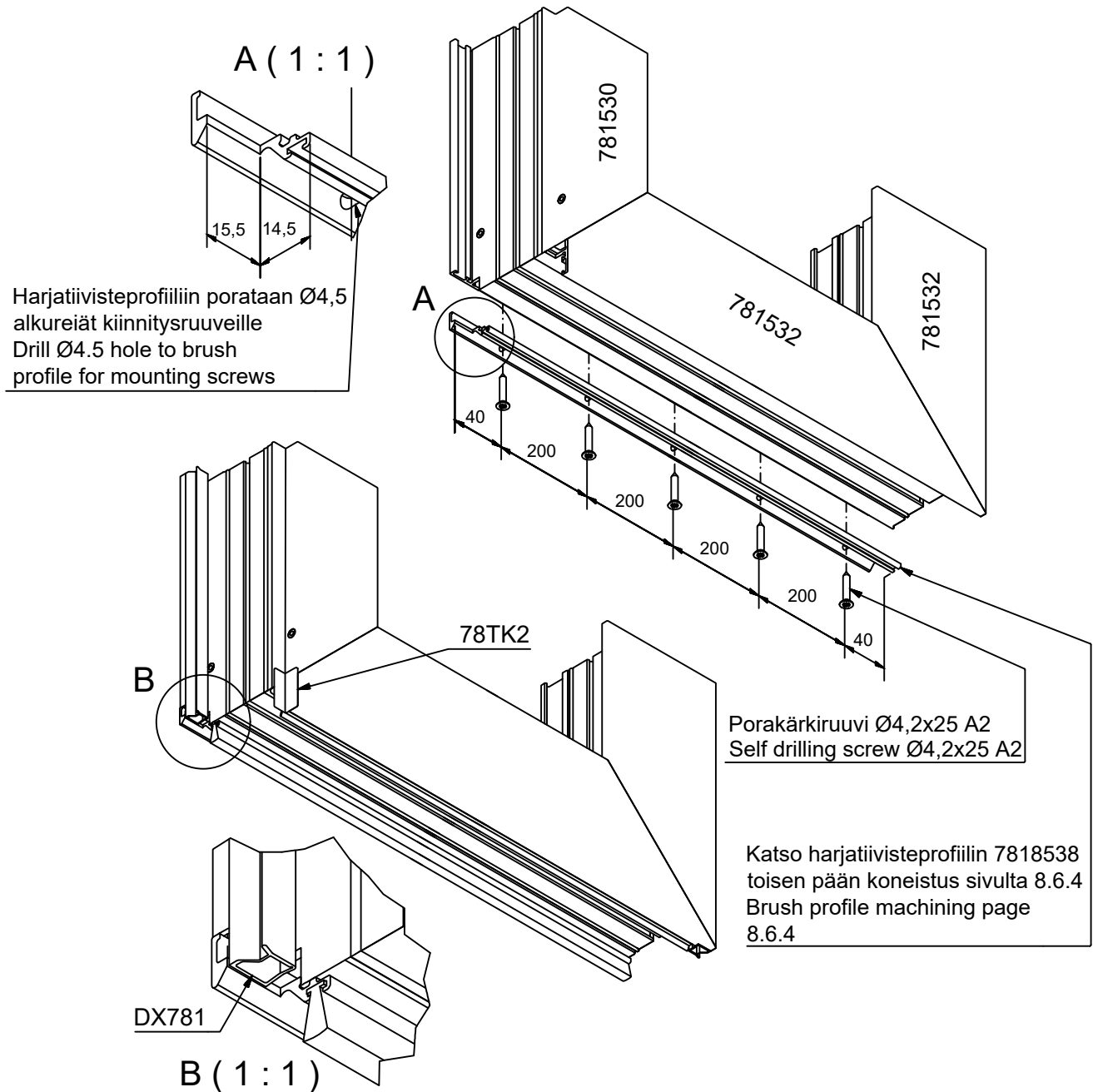
HARJATIIVISTEPROFIILIN 7815763 JA TIIVISTEEN HT1 ASENNUS
BRUSH PROFILE 7815763 AND BRUSH GASKET HT1 INSTALLATION



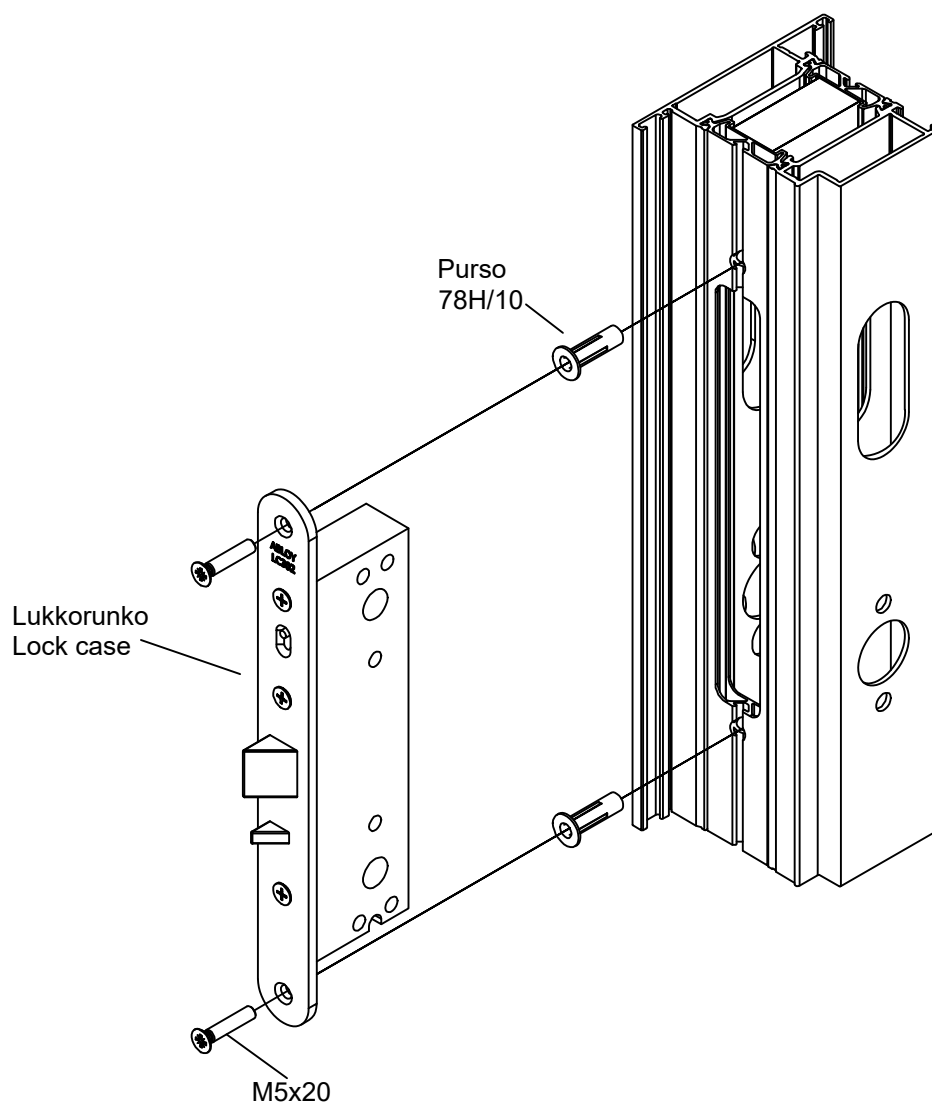
HARJATIIVISTEPROFIILIN 18538 JA TIIVISTEEN HT1 ASENNUS BRUSH PROFILE 18538 AND BRUSH GASKET HT1 INSTALLATION



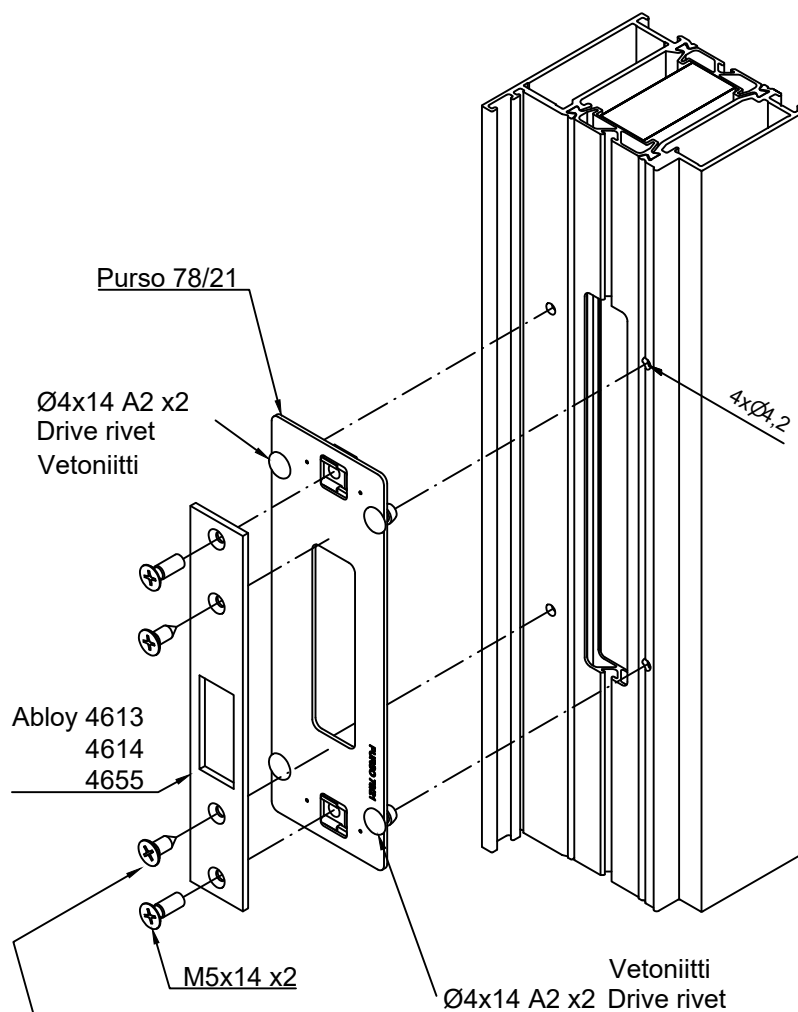
HARJATIIVISTEPROFIILIN 7818538 JA TIIVISTEEN HT1 ASENNUS BRUSH PROFILE 7818538 AND BRUSH GASKET HT1 INSTALLATION



ABLOY LUKKORUNKOJEN LC300-LC305 ASENNUS
ASSEMBLY OF ABLOY LOCK CASES LC300-LC305

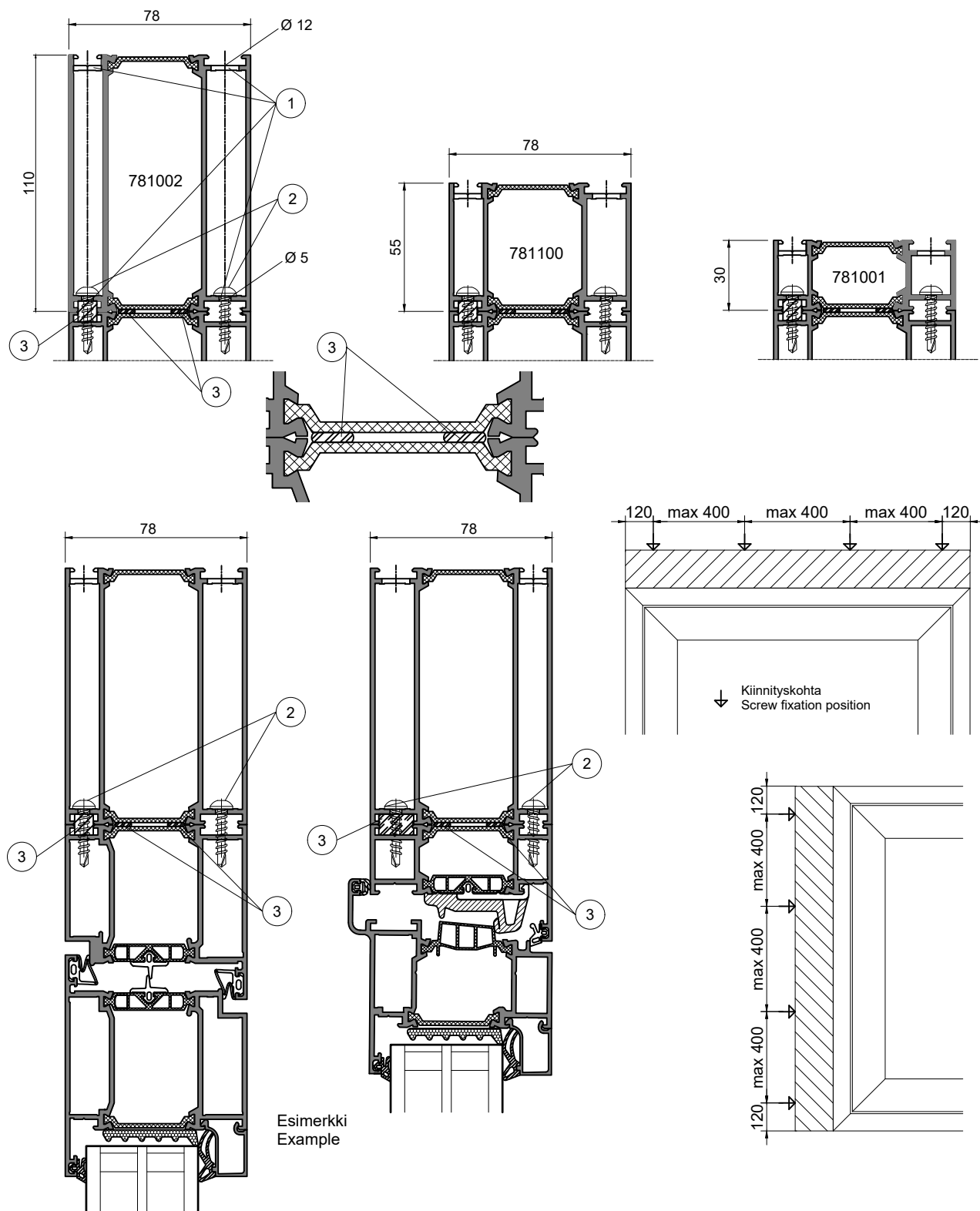


ALUSLEVYN 78/21 JA LUKON VASTARAUDAN ABLOY 4613/4614/4655 ASENNUS INSTALLATION OF WASHER PLATE 78/21 AND ABLOY STRIKER PLATE 4613/ 4614/ 4655



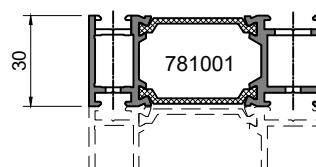
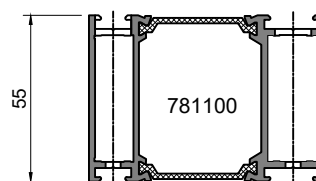
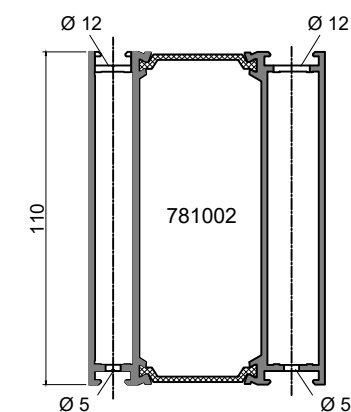
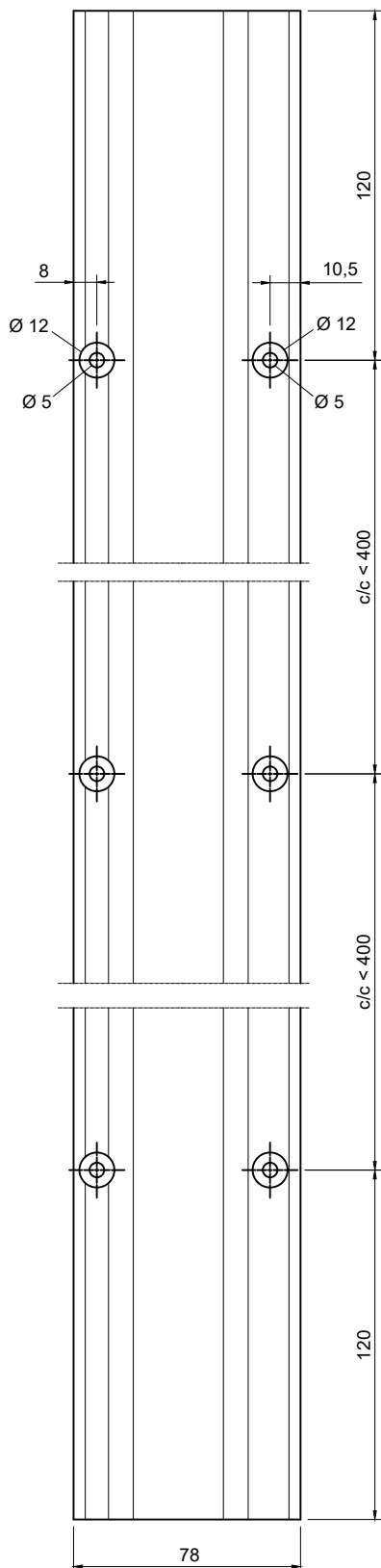
Tarvittaessa vastaraudat 4613 ja 4655
voidaan lukita aluslevyyn ruuveilla.
2 kpl Ø4,8x13 porakärkiruuvi
If necessary counter plates 4613 and 4655
can be secured to washer plate by screws.
2 pcs Ø4,8x13 self drilling screw

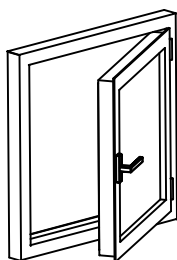
KARMIN LISÄPROFIILI YLÖS TAI SIVULLE
ADDITIONAL PROFILE ON TOP OR SIDE OF FRAME



1	Koneistus Machining	 8.8.2
2	Ruuvi Screw	JMRUUVI4825_25 
3	Tiivistysmassa Sealing compound	S1 

KARMIN LISÄPROFIILIN KONEISTUS MACHINING OF ADDITIONAL PROFILE

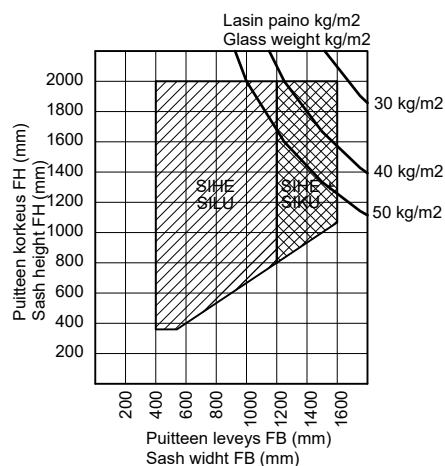


LK78X SISÄÄNAUKEAVAT IKKUNAT
LK78X INWARD OPENING WINDOWS
SIVUSARANOITU IKKUNA
SIDE HUNG WINDOW


Ikkunan mittasuhte FB/FH < 1.5
Max. width/ height ratio FB/FH < 1.5

Puitteen/ Sash		Puitteen enimmäispaino 100 kg Max. sash weight 100 kg			
Leveys FB Width	Korkeus FH Height	Helasrja Hardware	Painike Handle	Saranat Hinges	Sivu Page
400 - 1200	360 - 1200	SIHE	SIPA	FASA	9.1.1.1
400 - 1200	1200 - 2000	SIHE	SIPA	FASA	9.1.1.2
1200 - 1600	800 - 1200	SIHE + SIKU	SIPA	FASA	9.1.1.3
1200 - 1600	1200 - 2000	SIHE + SIKU	SIPA	FASA	9.1.1.4

400 - 1200	360 - 1200	SILU	□ 7	FASA	9.1.1.5
400 - 1200	1200 - 2000	SILU	□ 7	FASA	9.1.1.6
1200 - 1600	800 - 1200	SILU + SIKU	□ 7	FASA	9.1.1.7
1200 - 1600	1200 - 2000	SILU + SIKU	□ 7	FASA	9.1.1.8

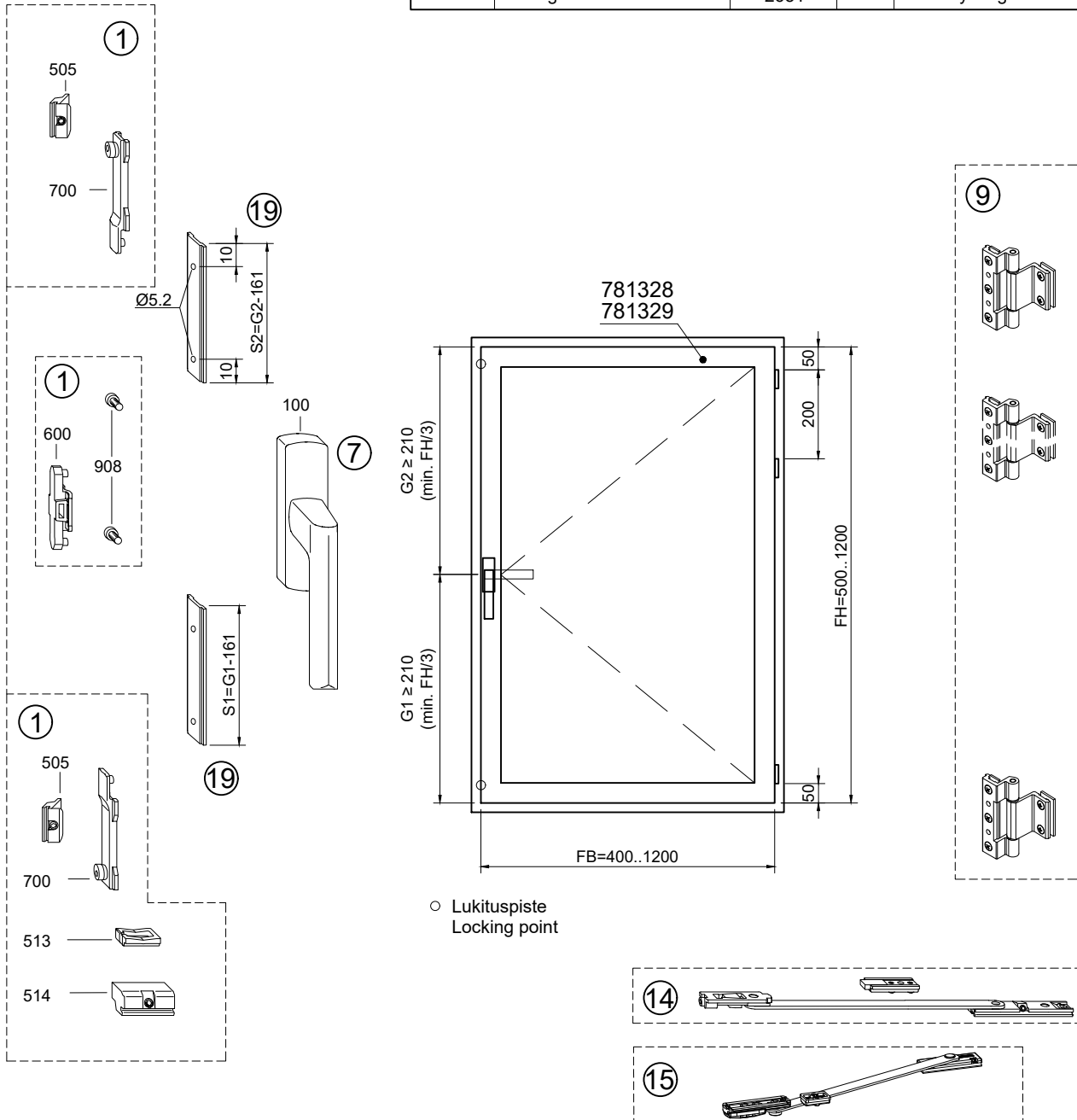


LK78X SISÄÄN AUKEAVAN IKKUNAN HELAT, SIVUSARANOITU

LK78X FITTINGS FOR INWARD OPENING WINDOW, SIDE HUNG

Puitteen enimmäispaino 100 kg Max. sash weight 100 kg	
Ikkunan mittasuhte: FB/FH < 1.5 Max. width/ height ratio FB/FH < 1.5	
HELASARJA/ FITTINGS	SIHE
PAINIKE/ HANDLE	SIPA
LEVEYS/ WIDTH (FB)	400..1200
KORKEUS/ HEIGHT (FH)	500..1200

Osa Part	Nimike/ Title	Tuote/ Product	kpl/ pcs	Huom! Note!
1	Siegenia helasarja / hardware	SIHE	1	7.5.1
7	Siegenia painike / handle	SIPA	1	
9	Fapim sarana / hinge	FASA	2	Paino/ Weight < 70 kg
9	Fapim sarana / hinge	FASA	3	Paino/ Weight > 70 kg
14	Siegenia aukipitolaite / hold open device	SIAU	1	FB > 450 mm
15	Fapim aukipitolaite / hold open device	FAAU	1	FB < 450 mm
19	Liukukisko / sliding rail	23369/ 2651		Toimituspituus / delivery length 6,6 m

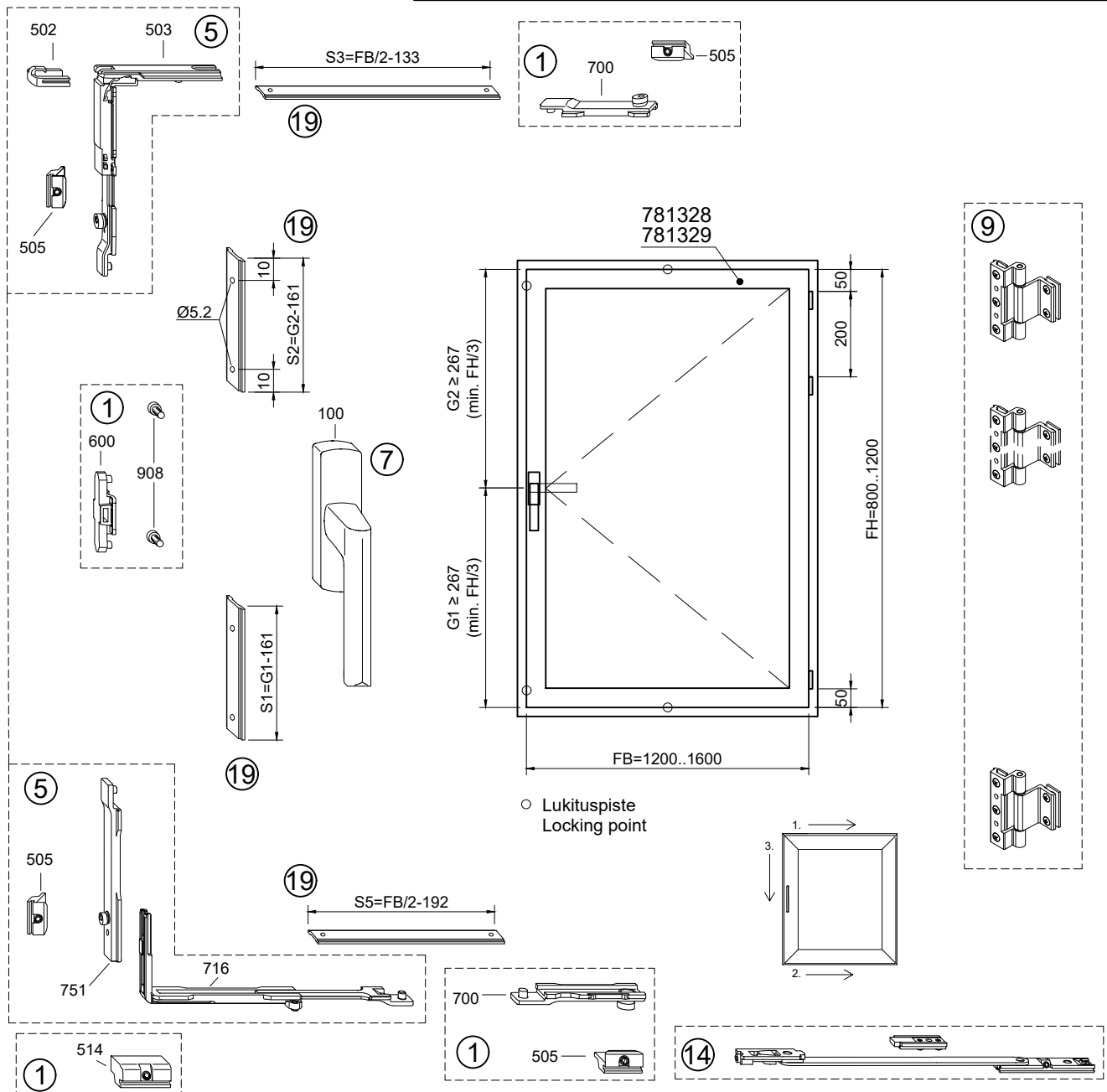


LK78X SISÄÄN AUKEAVAN IKKUNAN HELAT, SIVUSARANOITU

LK78X FITTINGS FOR INWARD OPENING WINDOW, SIDE HUNG

Puitteen enimmäispaino 100 kg Max. sash weight 100 kg	
Ikkunan mittasuhte: FB/FH < 1.5 Max. width/ height ratio FB/FH < 1.5	
HELASARJA/ FITTINGS	SIHE + SIKU
PAINIKE/ HANDLE	SIPA
LEVEYS/ WIDTH (FB)	1200..1600
KORKEUS/ HEIGHT (FH)	800..1200

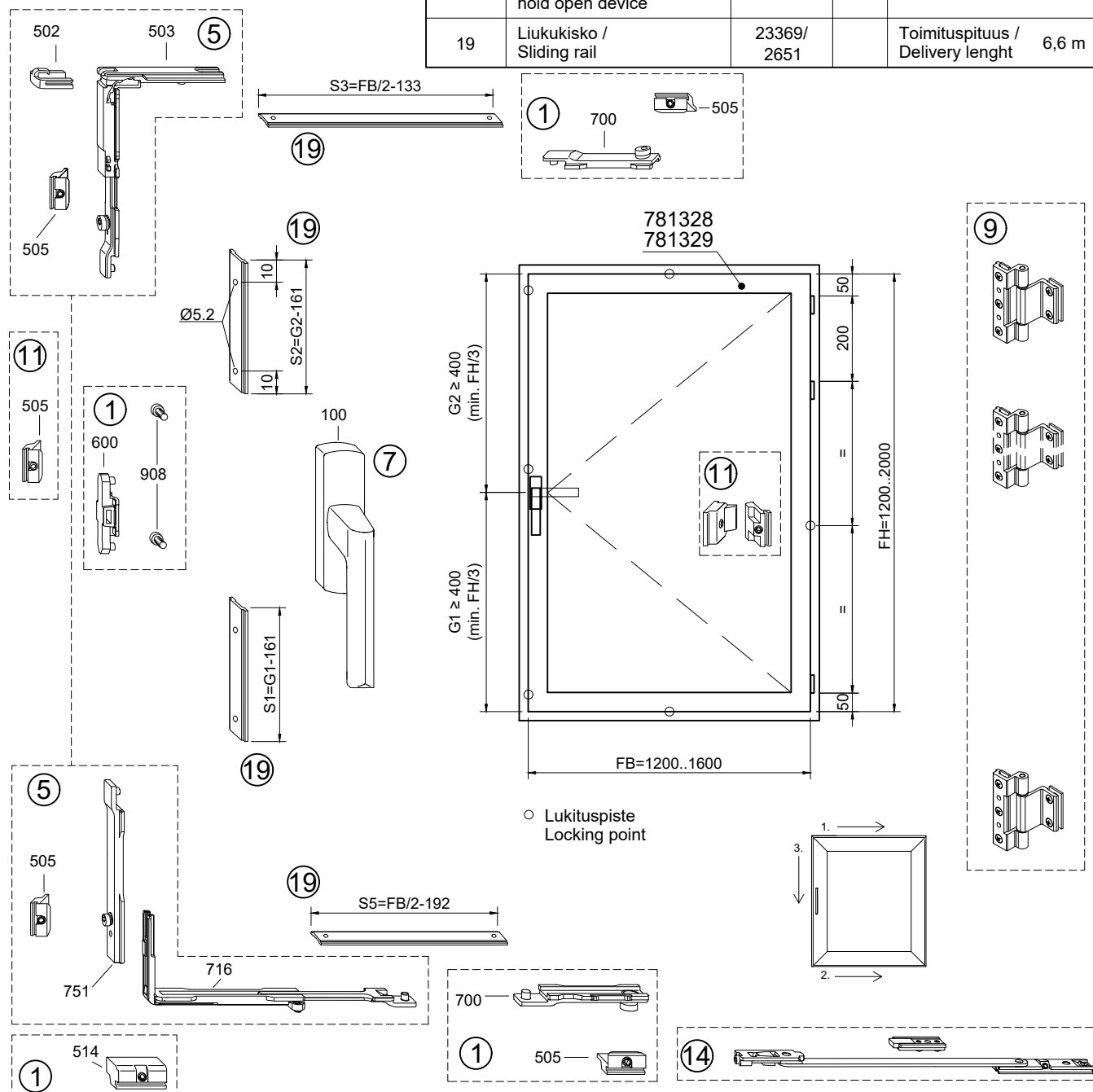
Osa Part	Nimike/ Title	Tuote/ Product	kpl/ pcs	Huom! Note!
1	Siegenia helasarja / hardware	SIHE	1	7.5.1
5	Siegenia kulmahelasarja / corner drives	SIKU	1	
7	Siegenia painike / handle	SIPA	1	
9	Fapim sarana / hinge	FASA	2	Paino/ Weight < 70 kg
9	Fapim sarana / hinge	FASA	3	Paino/ Weight > 70 kg
14	Siegenia aukipitolaite / hold open device	SIAU	1	FB > 450 mm
19	Liukukisko / Sliding rail	23369/ 2651		Toimituspituus / Delivery lenght 6,6 m



LK78X SISÄÄN AUKEAVAN IKKUNAN HELAT, SIVUSARANOITU
LK78X FITTINGS FOR INWARD OPENING WINDOW, SIDE HUNG

Puitteen enimmäispaino 100 kg Max. sash weight 100 kg	
Ikkunan mittasuhte: FB/FH < 1.5 Max. width/ height ratio FB/FH < 1.5	
HELASARJA/ FITTINGS	SIHE + SIKU + FALPS
PAINIKE/ HANDLE	SIPA
LEVEYS/ WIDTH (FB)	1200..1600
KORKEUS/ HEIGHT (FH)	1200..2000

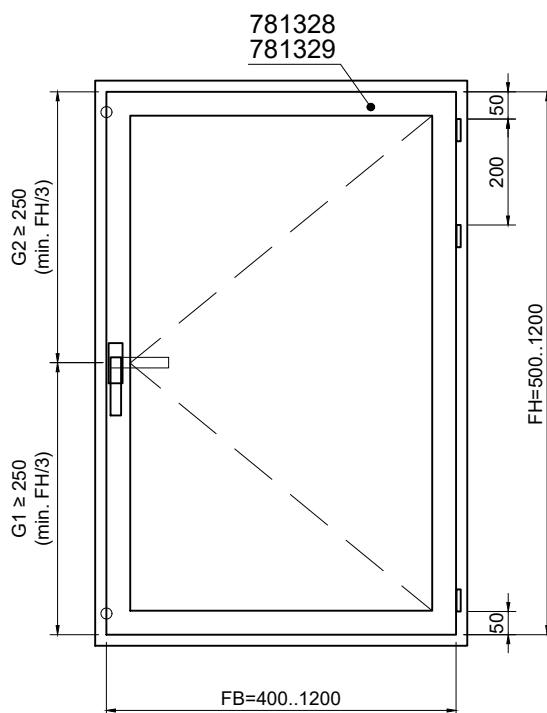
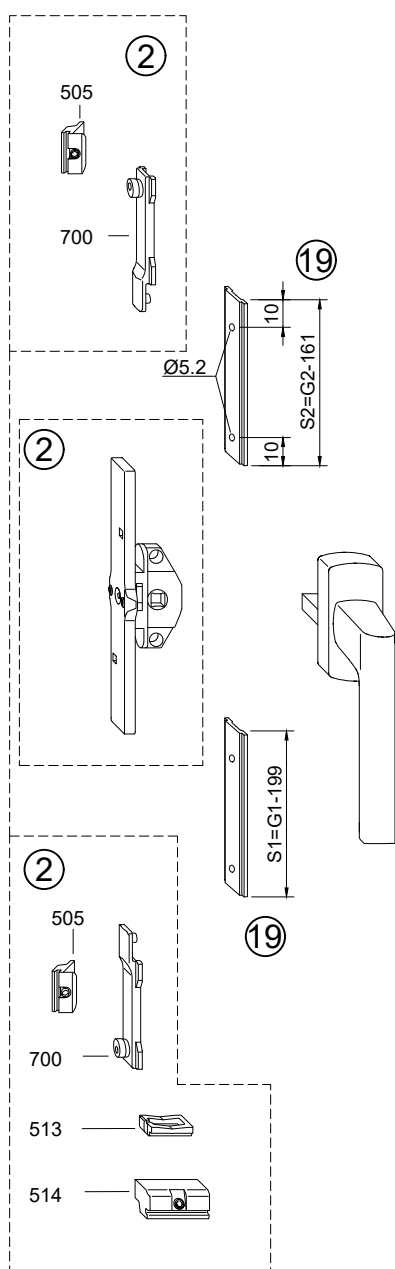
Osa Part	Nimike/ Title	Tuote/ Product	kpl/ pcs	Huom! Note!
1	Siegenia helasarja / hardware	SIHE	1	7.5.1
5	Siegenia kulmahelasarja / corner drives	SIKU	1	
7	Siegenia painike / handle	SIPA	1	
9	Fapim sarana / hinge	FASA	2	Paino/ Weight < 70 kg
9	Fapim sarana / hinge	FASA	3	Paino/ Weight > 70 kg
11	Lukituspala + kiripala / Locking + tightening piece	FALPS	1	
14	Siegenia aukipitolaite / hold open device	SIAU	1	
19	Liukukisko / Sliding rail	23369/ 2651		Toimituspituus / Delivery lenght 6,6 m



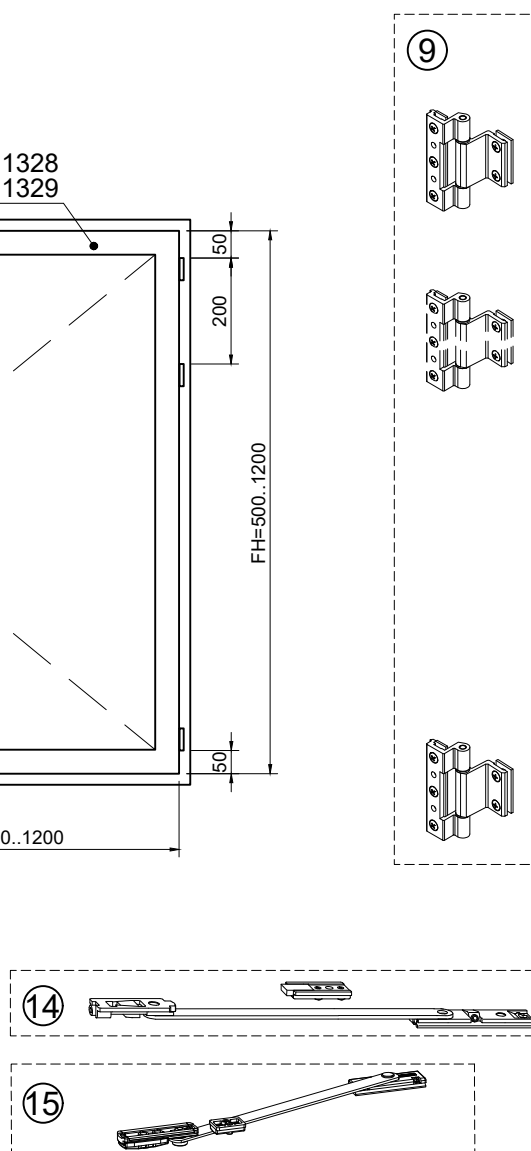
LK78X SISÄÄN AUKEAVAN IKKUNAN HELAT, SIVUSARANOITU
LK78X FITTINGS FOR INWARD OPENING WINDOW, SIDE HUNG

Puitteen enimmäispaino 100 kg Max. sash weight 100 kg	
Ikkunan mittasuhte: FB/FH < 1.5 Max. width/ height ratio FB/FH < 1.5	
HELASARJA/ FITTINGS	SILU
PAINIKE/ HANDLE	☐ 7mm
LEVEYS/ WIDTH (FB)	400..1200
KORKEUS/ HEIGHT (FH)	500..1200

Osa Part	Nimike/ Title	Tuote/ Product	kpl/ pcs	Huom! Note!
2	Siegenia helasarja / hardware	SILU	1	7.5.2
	Painike 7 mm neliökaralla / Handle 7 mm square drive		1	Kara L= 26mm Spindle L= 26mm
9	Fapim sarana / hinge	FASA	2	Paino/ Weight < 70 kg
9	Fapim sarana / hinge	FASA	3	Paino/ Weight > 70 kg
14	Siegenia aukipitolaite / hold open device	SIAU	1	FB > 450 mm
15	Fapim aukipitolaite / hold open device	FAAU	1	FB < 450 mm
19	Liukukisko / Sliding rail	23369/ 2651		Toimituspituus / Delivery lenght 6,6 m



- Lukituspiste
Locking point



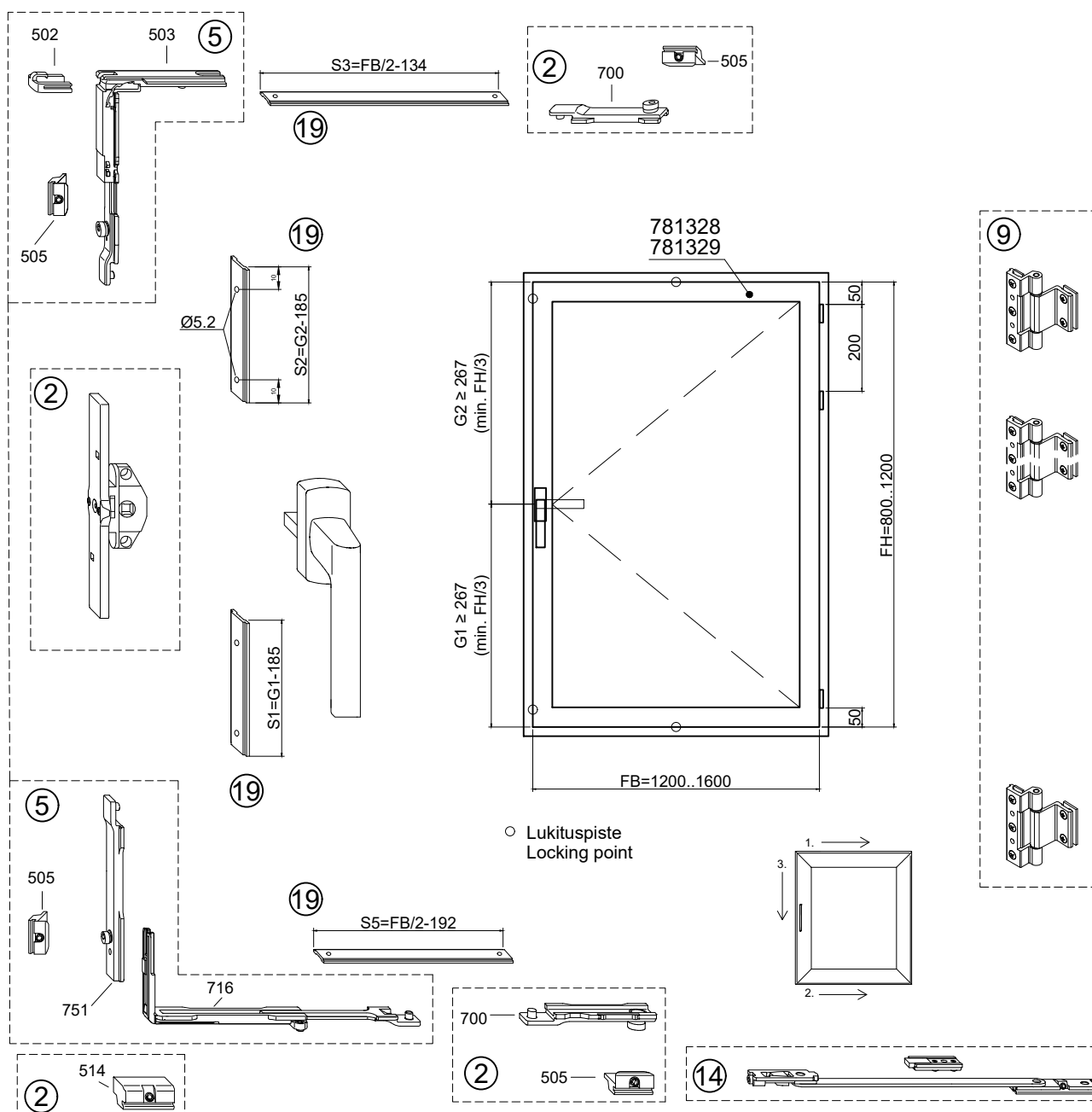
14

15

LK78X SISÄÄN AUKEAVAN IKKUNAN HELAT, SIVUSARANOITU
LK78X FITTINGS FOR INWARD OPENING WINDOW, SIDE HUNG

Puitteen enimmäispaino 100 kg Max. sash weight 100 kg	
Ikkunan mittasuhte: FB/FH < 1.5 Max. width/ height ratio FB/FH < 1.5	
HELASARJA/ FITTINGS	SILU + SIKU
PAINIKE/ HANDLE	☐ 7mm
LEVEYS/ WIDTH (FB)	1200..1600
KORKEUS/ HEIGHT (FH)	800..1200

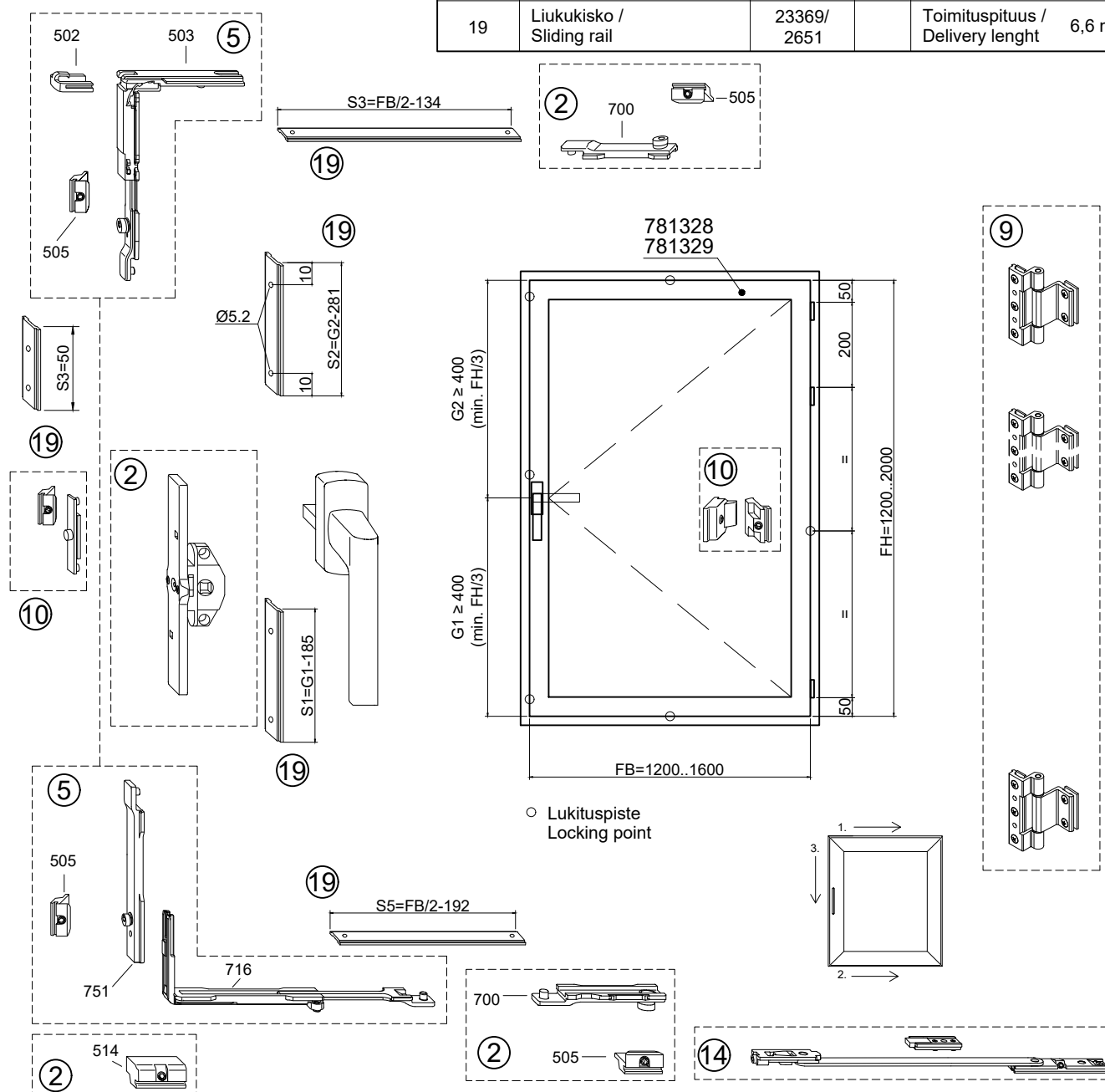
Osa Part	Nimike/ Title	Tuote/ Product	kpl/ pcs	Huom! Note!
2	Siegenia helasarja / hardware	SILU	1	7.5.2
5	Siegenia kulmahelasarja / corner drives	SIKU	1	
	Painike 7 mm neliökaralla / Handle 7 mm square drive		1	Kara L= 26mm Spindle L= 26mm
9	Fapim sarana / hinge	FASA	2	Paino/ Weight < 70 kg
9	Fapim sarana / hinge	FASA	3	Paino/ Weight > 70 kg
14	Siegenia aukipitolaite / hold open device	SIAU	1	
19	Liukukisko / Sliding rail	23369/ 2651		Toimituspituus / Delivery lenght 6,6 m

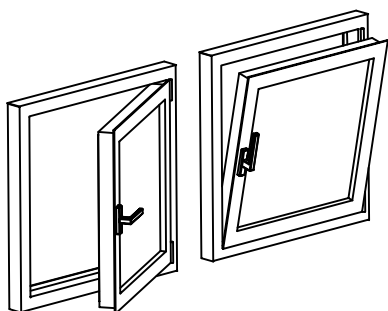


LK78X SISÄÄN AUKEAVAN IKKUNAN HELAT, SIVUSARANOITU
LK78X FITTINGS FOR INWARD OPENING WINDOW, SIDE HUNG

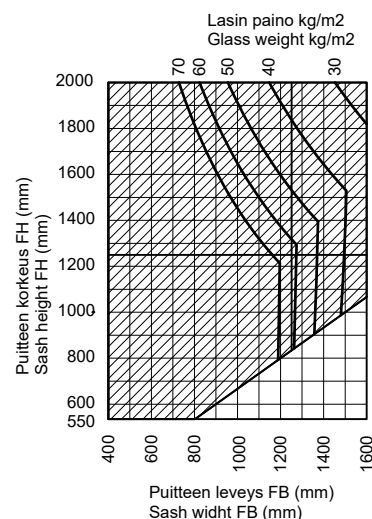
Puitteen enimmäispaino 100 kg Max. sash weight 100 kg	
Ikkunan mittasuhte: FB/FH < 1.5 Max. width/ height ratio FB/FH < 1.5	
HELASARJA/ FITTINGS	SILU + SIKU + FALP
PAINIKE/ HANDLE	☐ 7mm
LEVEYS/ WIDTH (FB)	1200..1600
KORKEUS/ HEIGHT (FH)	1200..2000

Osa Part	Nimike/ Title	Tuote/ Product	kpl/ pcs	Huom! Note!
2	Siegenia helasarja / hardware	SIHE	1	7.5.2
5	Siegenia kulmahelasarja / corner drives	SIKU	1	
	Painike 7 mm neliökaralla / Handle 7 mm square drive		1	Kara L= 26mm Spindle L= 26mm
9	Fapim sarana / hinge	FASA	2	Paino/ Weight < 70 kg
9	Fapim sarana / hinge	FASA	3	Paino/ Weight > 70 kg
10	Lukituspala + kiripala / Locking + tightening piece	FALP	1	
14	Siegenia aukipitolaite / hold open device	SIAU	1	
19	Liukukisko / Sliding rail	23369/ 2651		Toimituspituus / Delivery lenght 6,6 m



LK78X SISÄÄNAUKEAVAT IKKUNAT
LK78X INWARD OPENING WINDOWS
SIVU/ALA SARANOITU IKKUNA
TILT AND TURN WINDOW

Ikkunan mittasuhte FB/FH < 1.5
Max. width/ height ratio FB/FH < 1.5

Puitteen/ Sash		Puitteen enimmäispaino 100 kg Max. sash weight 100 kg		
Leveys FB Width	Korkeus FH Height	Helasarja Hardware	Painike Handle	Sivu Page
400 - 1250	550 - 1250	SILM	SIPA	9.1.2.1
400 - 1250	1250 - 2000	SILM + SILMLL	SIPA	9.1.2.2
1250 - 1600	800 - 1250	SILM + SILMLL + 857076	SIPA	9.1.2.3
1250 - 1600	1250 - 2000	SILM + 2x SILMLL + 857076	SIPA	9.1.2.4
400 - 1250	550 - 1250	SILMSQ	□ 7	9.1.2.5
400 - 1250	1250 - 2000	SILMSQ + SILMLL	□ 7	9.1.2.6
1250 - 1600	800 - 1250	SILMSQ + SILMLL + 857076	□ 7	9.1.2.7
1250 - 1600	1250 - 2000	SILMSQ + 2x SILMLL + 857076	□ 7	9.1.2.8

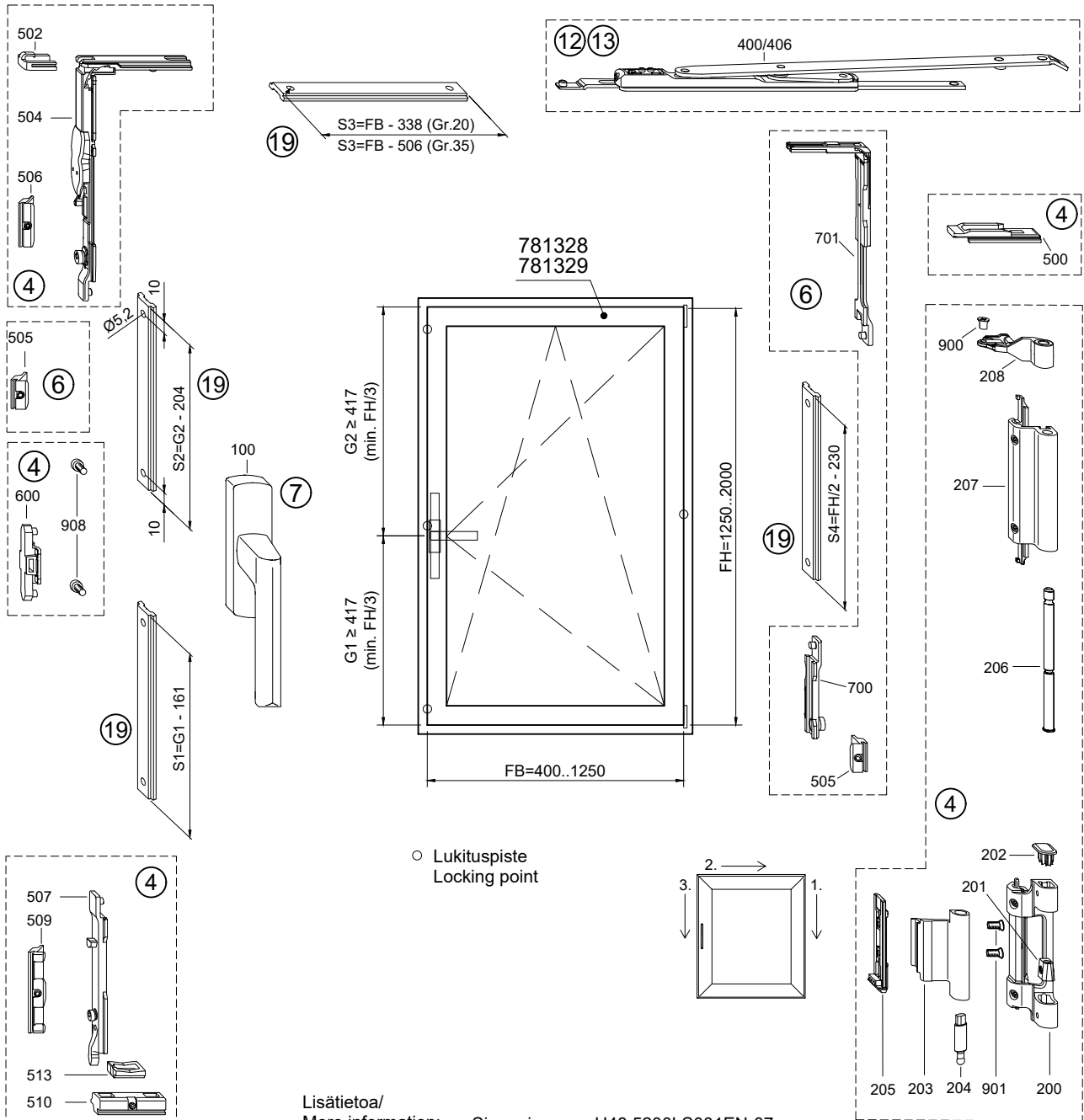


Lisätietoa/
More information: Siegenia [www: H48.5200LS001EN-07](http://www.h48.5200LS001EN-07)

LK78X SISÄÄN AUKEAVAN IKKUNAN HELAT, SIVU/ALASARANOITU LK78X FITTINGS FOR INWARD OPENING WINDOW, SIDE/BOTTOM HUNG

Puitteen enimmäispaino 100 kg Max. sash weight 100 kg	
Ikkunan mittasuhte: FB/FH < 1.5 Max. width/ height ratio FB/FH < 1.5	
HELASARJA/ FITTINGS	SILM + SILMLL
PAINIKE/ HANDLE	SIPA
LEVEYS/ WIDTH (FB)	400..1250
KORKEUS/ HEIGHT (FH)	1250..2000

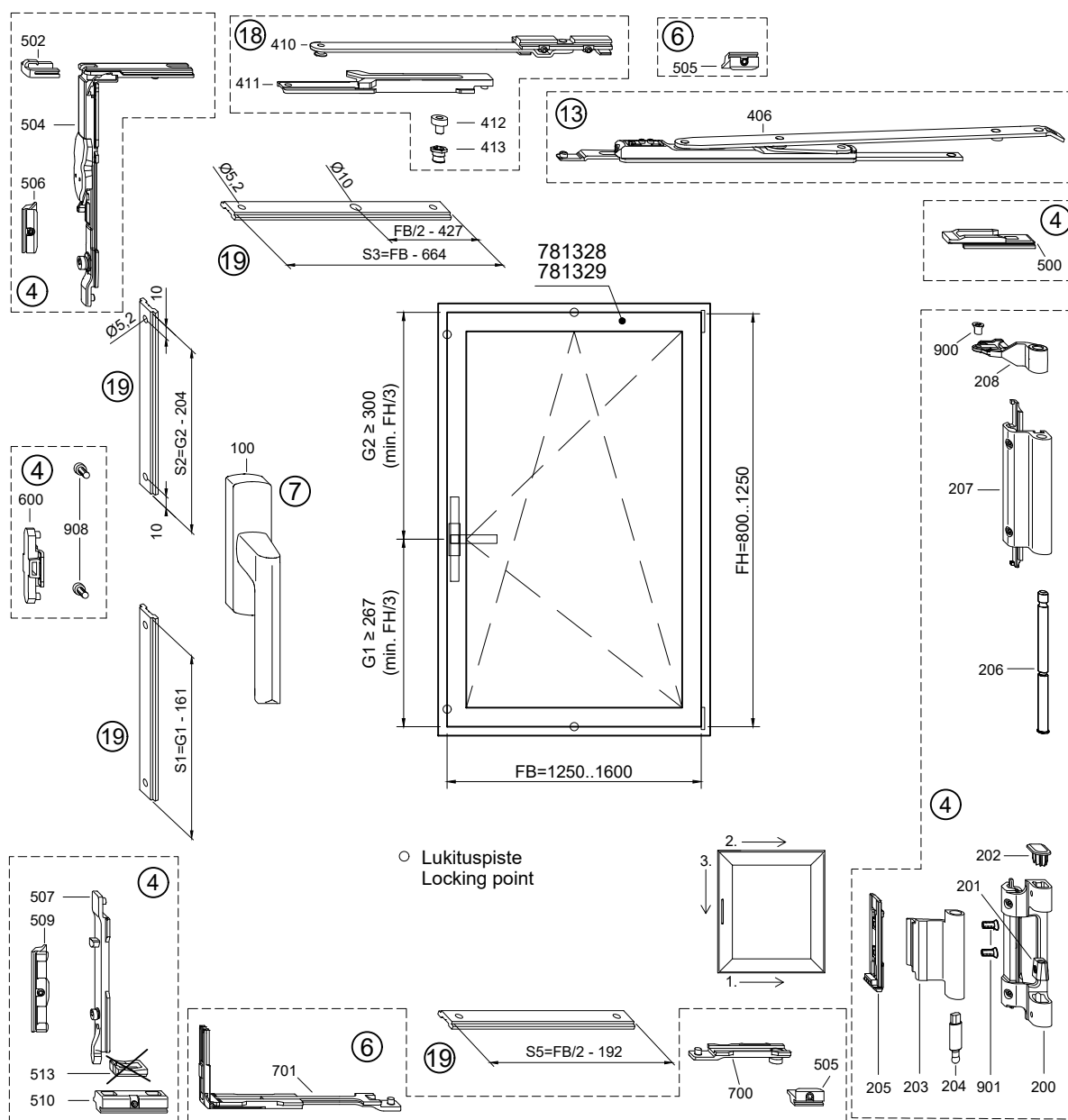
Osa Part	Nimike/ Title	Tuote/ Product	kpl/ pcs	Huom! Note!
4	Siegenia helasarja / hardware	SILM	1	7.5.1
6	Siegenia lisälukitusarja / Extra locking	SILMLL	1	
7	Siegenia painike / handle	SIPA	1	
12	Siegenia saksilaite, koko 1 Stay arm Size 1	SIGR20	1	FB < 600 mm
13	Siegenia saksilaite, koko 2 Stay arm Size 2	SIGR35	1	FB > 600 mm
19	Liukukisko / Sliding rail	23369/ 2651		Toimituspituus / Delivery length 6,6 m



LK78X SISÄÄN AUKEAVAN IKKUNAN HELAT, SIVU/ALASARANOITU
LK78X FITTINGS FOR INWARD OPENING WINDOW, SIDE/BOTTOM HUNG

Puitteen enimmäispaino 100 kg Max. sash weight 100 kg	
Ikkunan mittasuhte: FB/FH < 1.5 Window dimension ratio: FB/FH<1.5	
HELASARJA/ FITTINGS	SILM + SILMLL + 857076
PAINIKE/ HANDLE	SIPA
LEVEYS/ WIDTH (FB)	1250..1600
KORKEUS/ HEIGHT (FH)	800..1250

Osa Part	Nimike/ Title	Tuote/ Product	kpl/ pcs	Huom! Note!
4	Siegenia helasarja / hardware	SILM	1	7.5.1
6	Siegenia lisälukitusarja / Extra locking	SILMLL	1	
7	Siegenia painike / handle	SIPA	1	
13	Siegenia saksilaite, koko 2 Stay arm Size 2	SIGR35	1	
18	Siegenia lisäsaksi additional stay	857076	1	
19	Liukukisko / Sliding rail	23369/ 2651		Toimituspituus / Delivery lenght 6,6 m



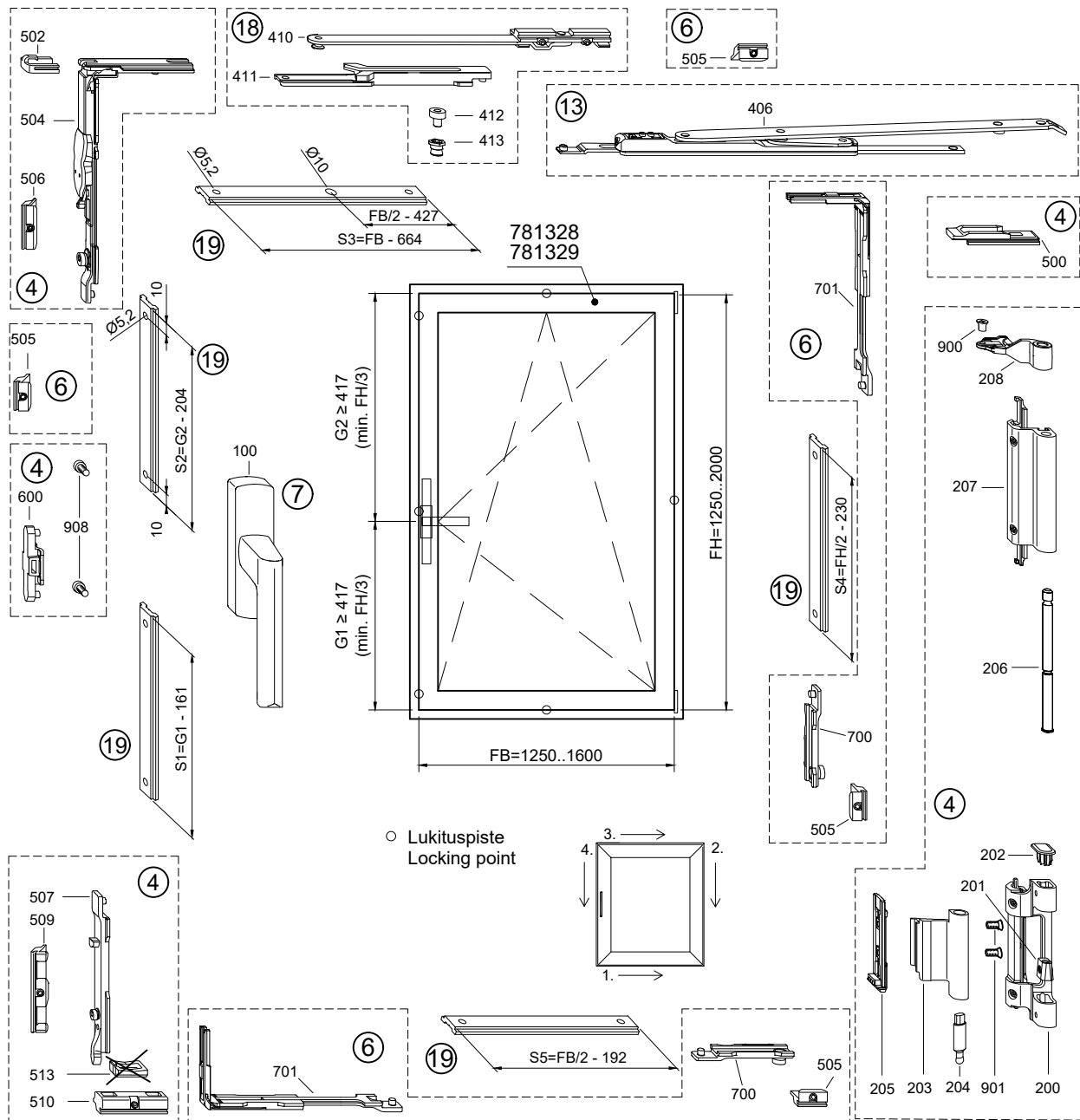
Lisätietoa/
More information:

Siegenia www: H48.5200LS001EN-07

LK78X SISÄÄN AUKEAVAN IKKUNAN HELAT, SIVU/ALASARANOITU LK78X FITTINGS FOR INWARD OPENING WINDOW, SIDE/BOTTOM HUNG

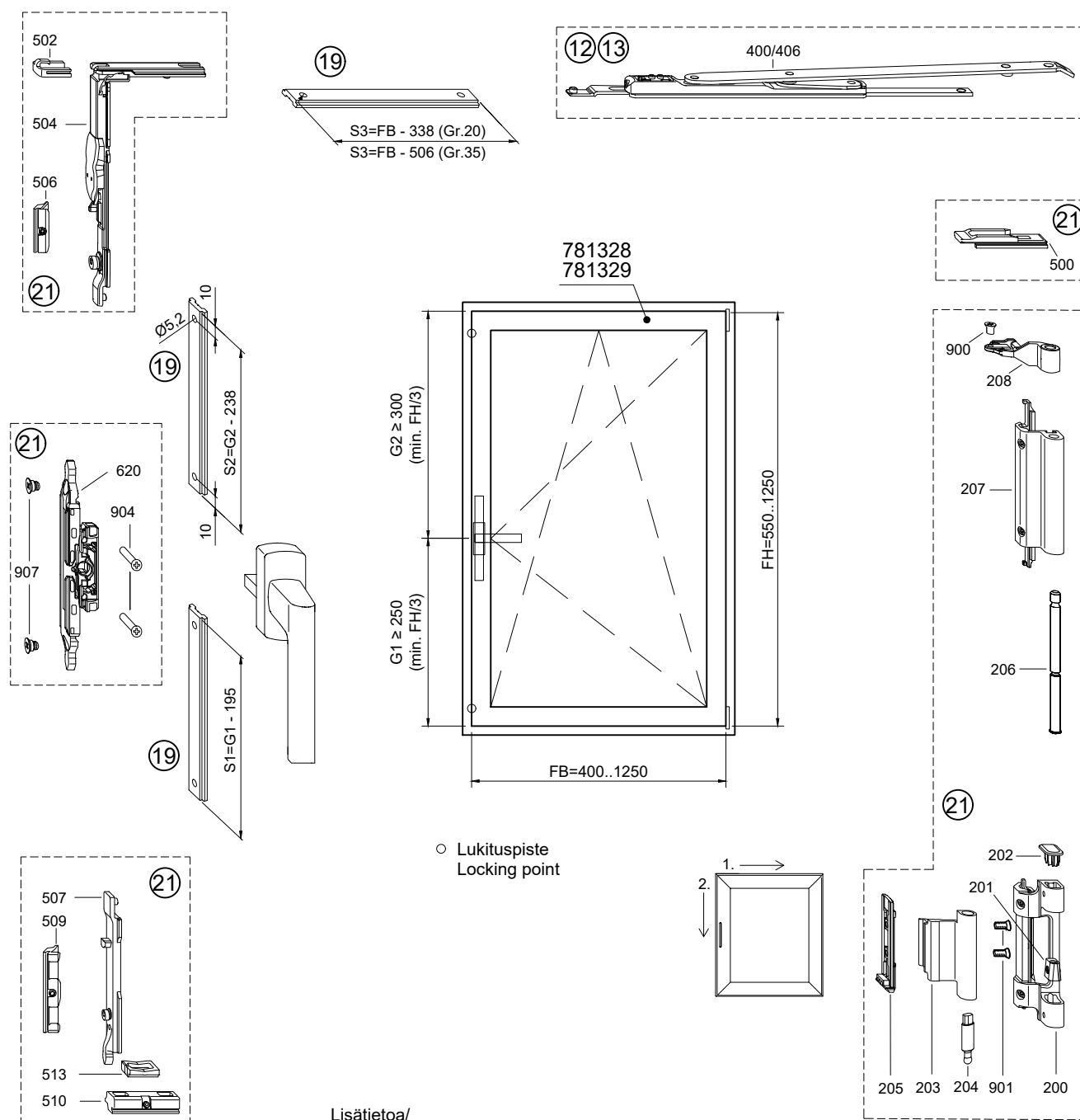
Puitteen enimmäispaino 100 kg Max. sash weight 100 kg	
Ikkunan mittasuhte: FB/FH < 1.5 Window dimension ratio: FB/FH<1.5	
HELASARJA/ FITTINGS	SILM + 2xSILMLL + 857076
PAINIKE/ HANDLE	SIPA
LEVEYS/ WIDTH (FB)	1250..1600
KORKEUS/ HEIGHT (FH)	1250..2000

Osa Part	Nimike/ Title	Tuote/ Product	kpl/ pcs	Huom! Note!
4	Siegenia helasarja / hardware	SILM	1	7.5.1
6	Siegenia lisälukitusarja / Extra locking	SILMLL	2	
7	Siegenia painike / handle	SIPA	1	
13	Siegenia saksilaite, koko 2 Stay arm Size 2	SIGR35	1	
18	Siegenia lisäsaksi additional stay	857076	1	
19	Liukukisko / Sliding rail	23369/ 2651		Toimituspituus / Delivery length 6,6 m



LK78X SISÄÄN AUKEAVAN IKKUNAN HELAT, SIVU/ALASARANOITU
LK78X FITTINGS FOR INWARD OPENING WINDOW, SIDE/BOTTOM HUNG

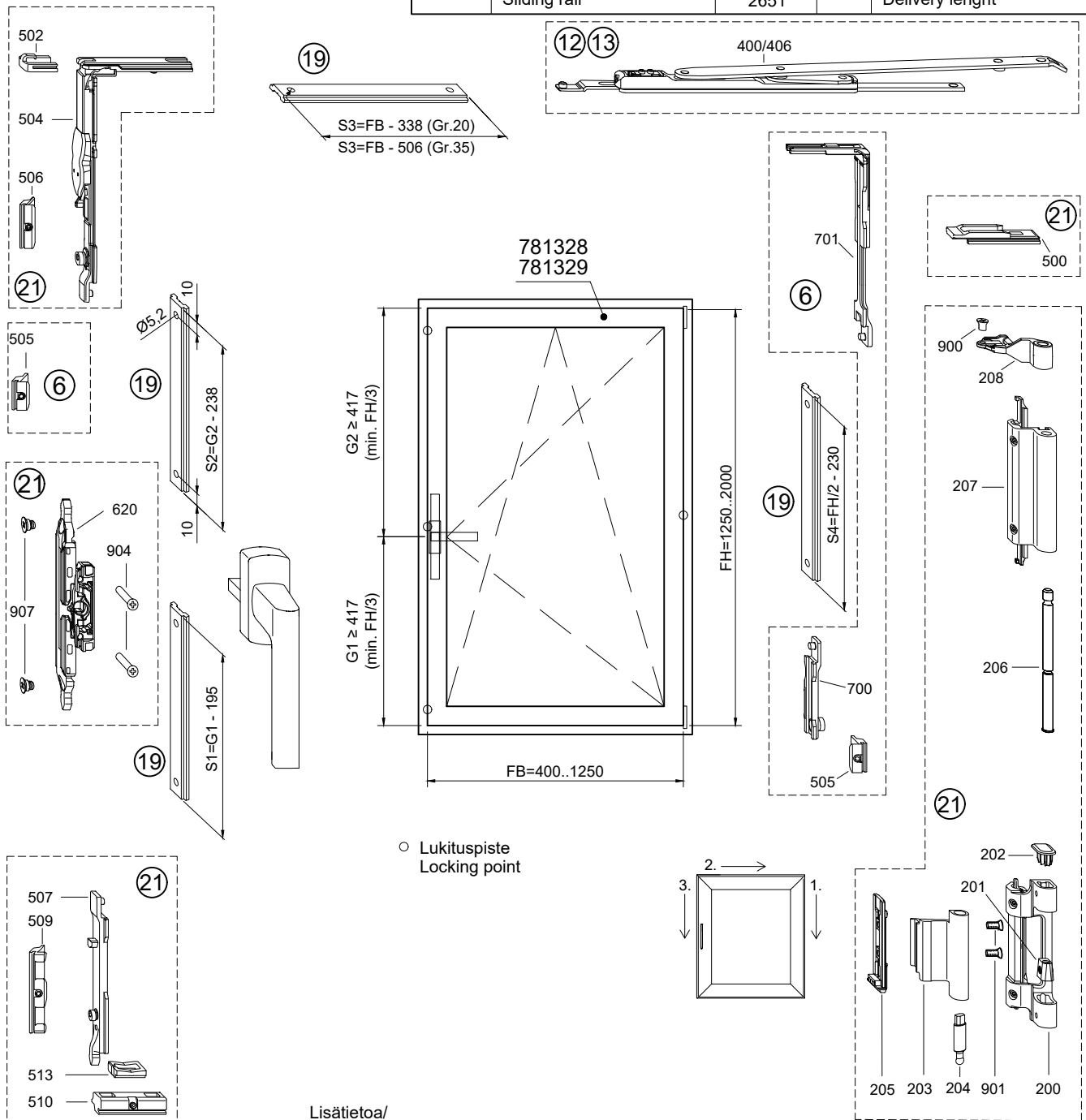
Puitteen enimmäispaino 100 kg Max. sash weight 100 kg		Osa Part	Nimike/ Title	Tuote/ Product	kpl/ pcs	Huom! Note!
Ikkunan mittasuhte: FB/FH < 1.5 Window dimension ratio: FB/FH<1.5		21	Siegenia helasarja / hardware	SILMSQ	1	7.5.5
HELASARJA/ FITTINGS	SILMSQ		Painike 7 mm neliökaralla / Handle 7 mm square drive		1	Kara L= 22..26mm Spindle L= 22..26mm
PAINIKE/ HANDLE	☐ 7mm	12	Siegenia saksilaite, koko 1 Stay arm Size 1	SIGR20	1	FB < 600 mm
LEVEYS/ WIDTH (FB)	400..1250	13	Siegenia saksilaite, koko 2 Stay arm Size 2	SIGR35	1	FB > 600 mm
KORKEUS/ HEIGHT (FH)	550..1250	19	Liukukisko / Sliding rail	23369/ 2651		Toimituspituus / Delivery lenght 6,6 m



LK78X SISÄÄN AUKEAVAN IKKUNAN HELAT, SIVU/ALASARANOITU **LK78X FITTINGS FOR INWARD OPENING WINDOW, SIDE/BOTTOM HUNG**

Puitteen enimmäispaino 100 kg Max. sash weight 100 kg	
Ikkunan mittasuhte: FB/FH < 1.5 Window dimension ratio: FB/FH<1.5	
HELASARJA/ FITTINGS	SILMSQ + SILMLL
PAINIKE/ HANDLE	□ 7mm
LEVEYS/ WIDTH (FB)	400..1250
KORKEUS/ HEIGHT (FH)	1250..2000

Osa Part	Nimike/ Title	Tuote/ Product	kpl/ pcs	Huom! Note!
21	Siegenia helasarja / hardware	SILMSQ	1	7.5.5
6	Siegenia lisälukitusarja / Extra locking	SILMLL	1	
	Painike 7 mm neliökaralla / Handle 7 mm square drive		1	Kara L= 22..26mm Spindle L= 22..26mm
12	Siegenia saksilaite, koko 1 Stay arm Size 1	SIGR20	1	FB < 600 mm
13	Siegenia saksilaite, koko 2 Stay arm Size 2	SIGR35	1	FB > 600 mm
19	Liukukisko / Sliding rail	23369/ 2651		Toimituspituus / Delivery lenght 6,6 m

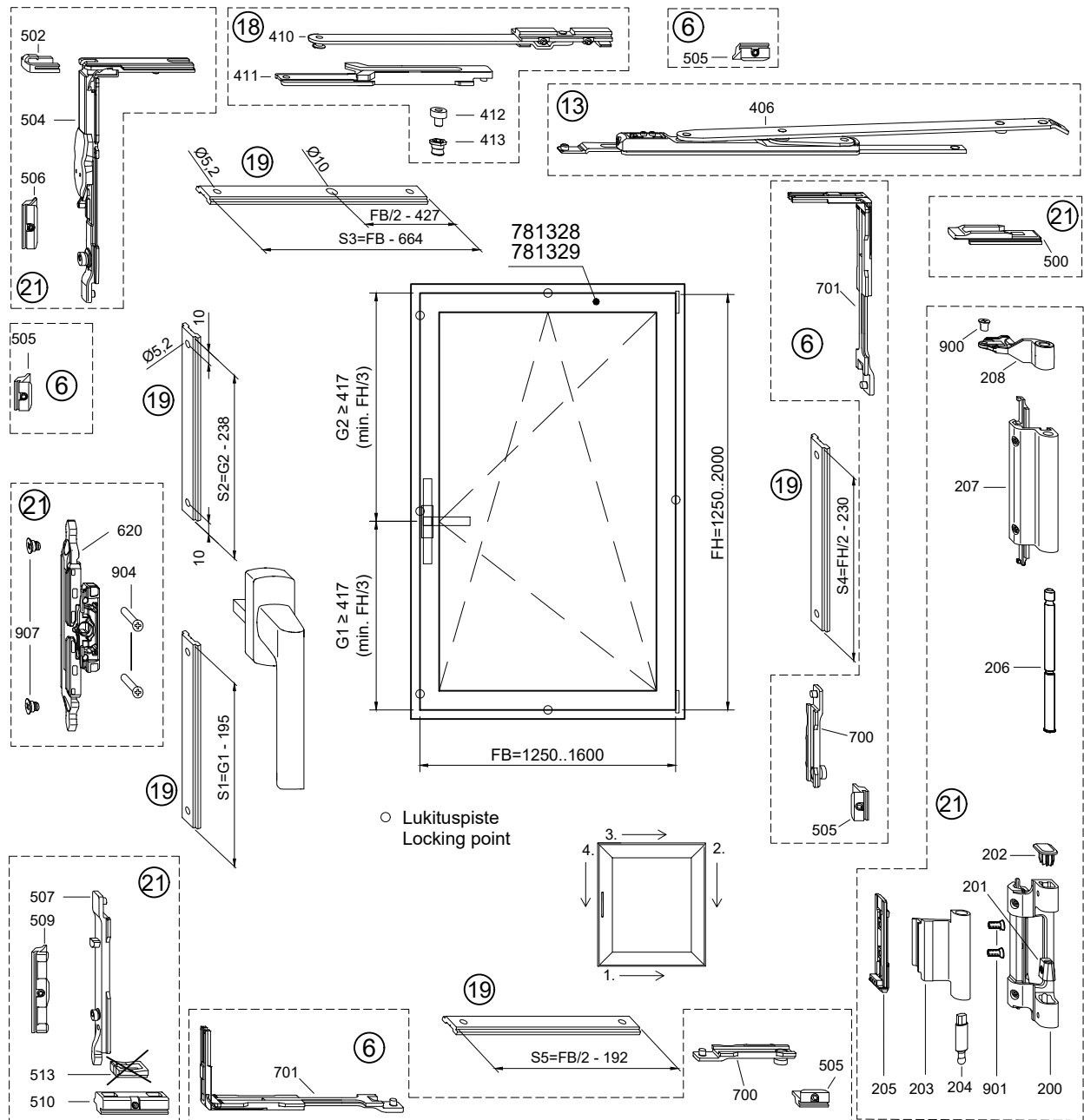


Siegenia www: H48.5200LS001EN-07

LK78X SISÄÄN AUKEAVAN IKKUNAN HELAT, SIVU/ALASARANOITU LK78X FITTINGS FOR INWARD OPENING WINDOW, SIDE/BOTTOM HUNG

Puitteen enimmäispaino 100 kg Max. sash weight 100 kg	
Ikkunan mittasuhte: FB/FH < 1.5 Window dimension ratio: FB/FH<1.5	
HELASARJA/ FITTINGS	SILMSQ + 2x SILMLL + 857076
PAINIKE/ HANDLE	□ 7mm
LEVEYS/ WIDTH (FB)	1250..1600
KORKEUS/ HEIGHT (FH)	1250..2000

Osa Part	Nimike/ Title	Tuote/ Product	kpl/ pcs	Huom! Note!
21	Siegenia helasarja / hardware	SILMSQ	1	7.5.5
6	Siegenia lisälukitusarja / Extra locking	SILMLL	2	
	Painike 7 mm neliökaralla / handle 7 mm square drive		1	Kara L= 22..26mm spindle L= 22..26mm
13	Siegenia saksilaite, koko 2 stay arm size 2	SIGR35	1	
18	Siegenia lisäsaksi additional stay	857076	1	
19	Liukukisko / sliding rail	23369/ 2651		Toimituspituus / delivery length 6,6 m

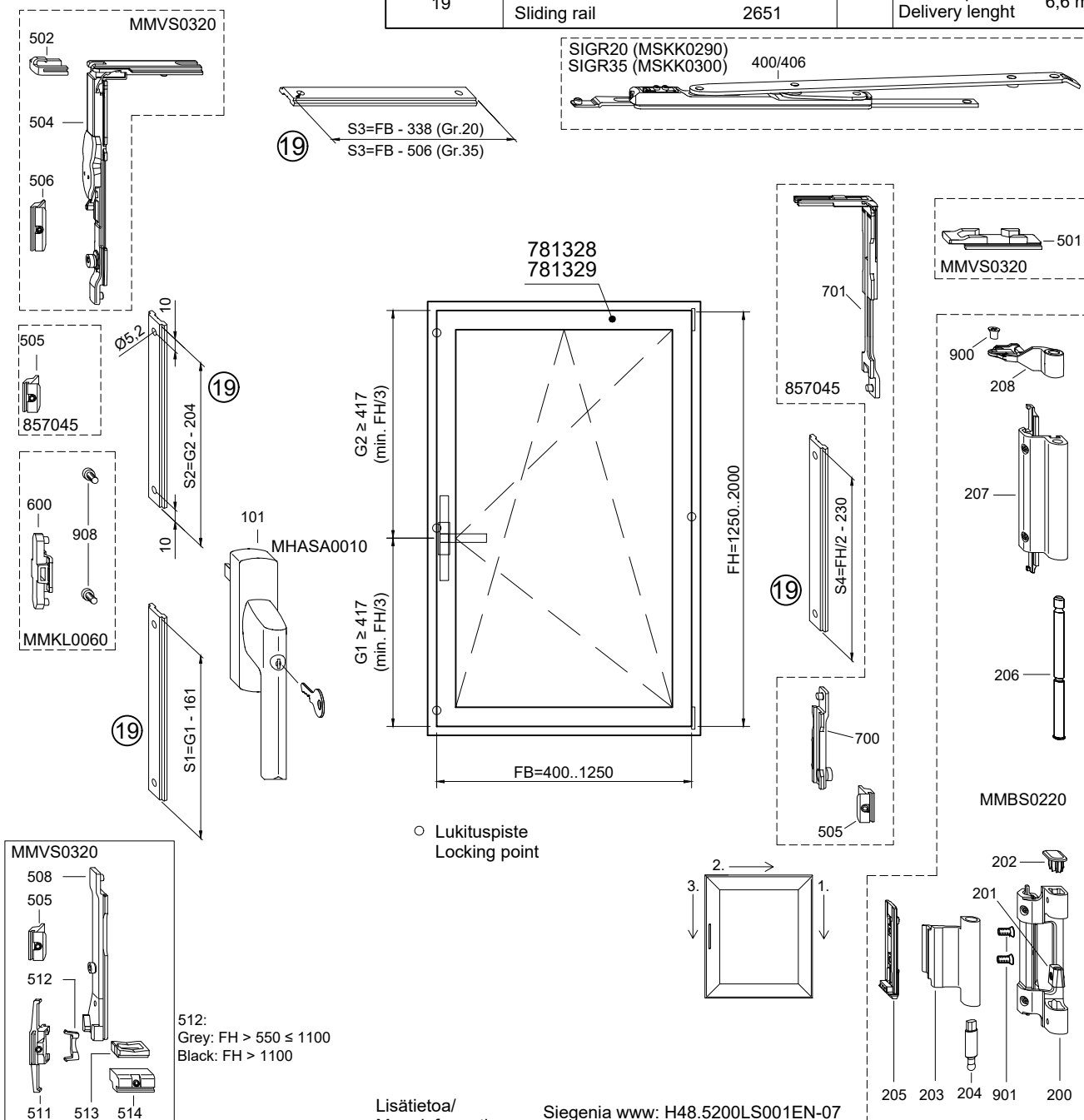

Lisätietoa/
More information:

Siegenia www.H48.5200LS001EN-07

LK78X SISÄÄN AUKEAVAN IKKUNAN HELAT SIVU/ALASARANOITU TBT
LK78X FITTINGS FOR INWARD OPENING WINDOW SIDE/BOTTOM HUNG TBT

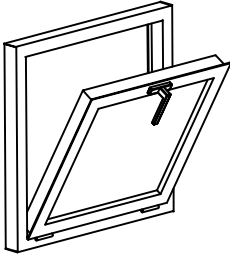
Puitteen enimmäispaino 100 kg Max. sash weight 100 kg	
Ikkunan mittasuhte: FB/FH < 1.5 Ikkunan mittasuhte: FB/FH < 1.5	
HELASARJA/ FITTINGS	Siegenia
PAINIKE/ HANDLE	SIPA TBT
LEVEYS/ WIDTH (FB)	400..1250
KORKEUS/ HEIGHT (FH)	1250..2000

Osa Part	Nimike/ Title		kpl/ pcs	Huom! Note!
MMBS0220	Saranasarja Hinge side	ALU 5200 BD3.5	1	7.5.1
MMVS0320	TBT lukitussarja TBT locking side	TBT FBS-EUL KPS	1	
857045	Lisälukitussarja / Extra locking	MV ALU-DK/TBT	1	
MMKL0060	ALU coupling set		1	
MHSA0010	Painike/ Handle		1	TBT
MSKK0290 MSKK0300	Saksilaite / Stay arm		1	
19	Liukukisko / Sliding rail	23369/ 2651		Toimituspituus / Delivery lenght 6,6 m

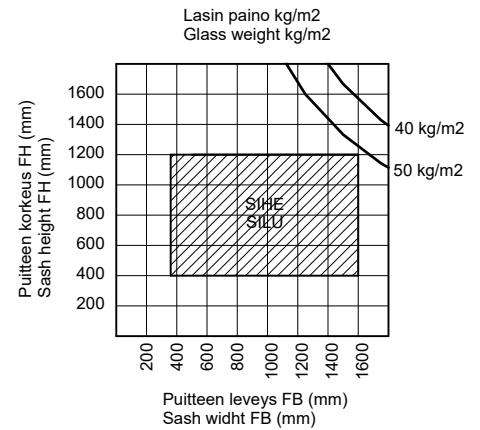
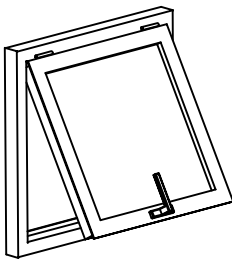


Lisätietoa/
More information:

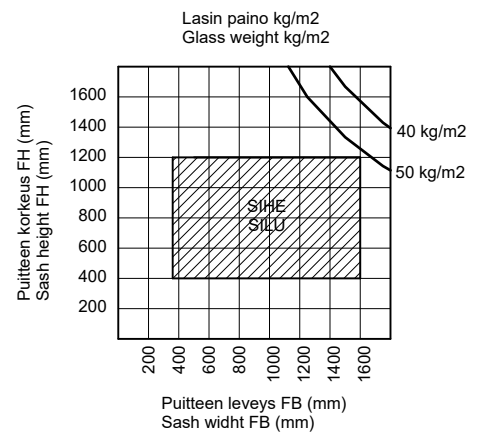
Siegenia www: H48.5200LS001EN-07

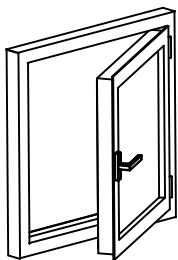
LK78X SISÄÄNAUKEAVAT IKKUNAT
LK78X INWARD OPENING WINDOWS
ALASARANOITU IKKUNA
BOTTOM HUNG WINDOW


Puitteen/ Sash		Puitteen enimmäispaino 100 kg Max. sash weight 100 kg			
Leveys FB Widht	Korkeus FH Heigth	Helasarja Hardware	Painike Handle	Saranat Hinges	Sivu Page
320 - 1200	400 - 1200	SIHE	SIPA	FASA	9.1.3.1
1200 - 1600	400 - 1200	SIHE	SIPA	FASA	9.1.3.2
380 - 1200	400 - 1200	SILU	□ 7	FASA	9.1.3.5
1200 - 1600	400 - 1200	SILU	□ 7	FASA	9.1.3.6


YLÄSARANOITU IKKUNA
TOP HUNG WINDOW


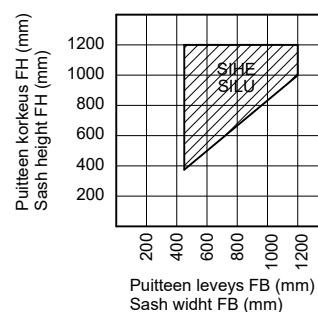
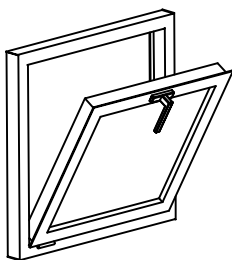
Puitteen/ Sash		Puitteen enimmäispaino 100 kg Max. sash weight 100 kg			
Leveys FB Widht	Korkeus FH Heigth	Helasarja Hardware	Painike Handle	Saranat Hinges	Sivu Page
320 - 1200	400 - 1200	SIHE	SIPA	FASA	9.1.4.1
1200 - 1600	400 - 1200	SIHE	SIPA	FASA	9.1.4.2
380 - 1200	400 - 1200	SILU	□ 7	FASA	9.1.4.5
1200 - 1600	400 - 1200	SILU	□ 7	FASA	9.1.4.6



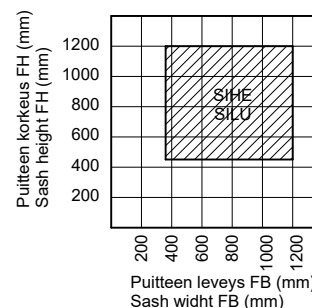
LK78X SISÄÄNAUKEAVAT IKKUNAT
LK78X INWARD OPENING WINDOWS
SIVUSARANOITU IKKUNA, PIILOSARANAT
SIDE HUNG WINDOW, CONCEALED HINGE


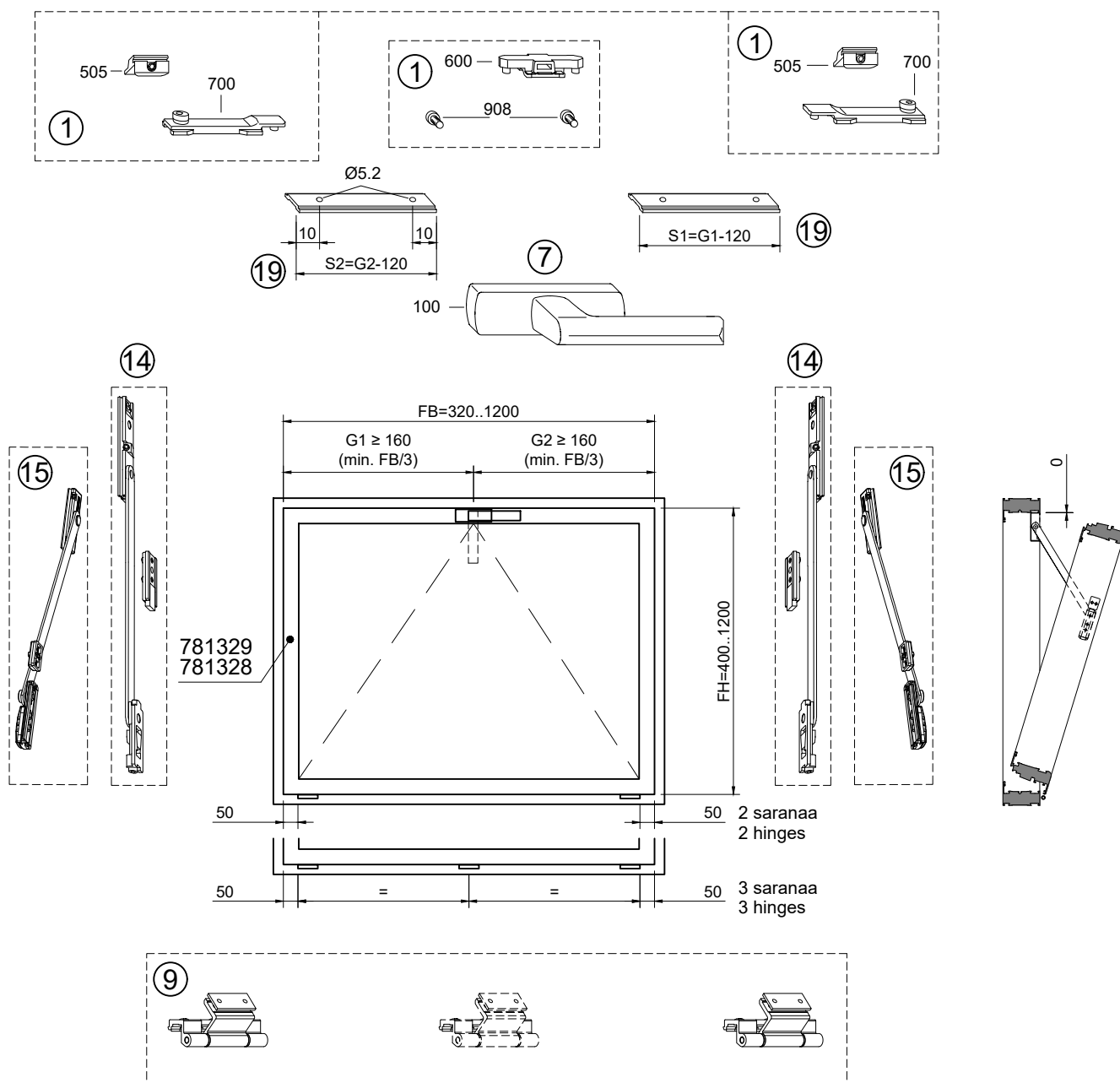
Ikkunan mittasuhte FB/FH < 1.2
Max. width/ height ratio FB/FH < 1.2

Puitteen/ Sash		Puitteen enimmäispaino 100 kg Max. sash weight 100 kg		
Leveys FB Widht	Korkeus FH Heigth	Helasarja Hardware	Painike Handle	Saranat Hinges
450 - 1200	360 - 1200	SIHE	SIPA	MAGIS-HL/HR
450 - 1200	380 - 1200	SILU	□ 7	MAGIS-HL/HR


ALASARANOITU IKKUNA, PIILOSARANAT
BOTTOM HUNG WINDOW, CONCEALED HINGE


Puitteen/ Sash		Puitteen enimmäispaino 100 kg Max. sash weight 100 kg		
Leveys FB Widht	Korkeus FH Heigth	Helasarja Hardware	Painike Handle	Saranat Hinges
320 - 1200	450 - 1200	SIHE	SIPA	MAGISBH
380 - 1200	450 - 1200	SILU	□ 7	MAGISBH



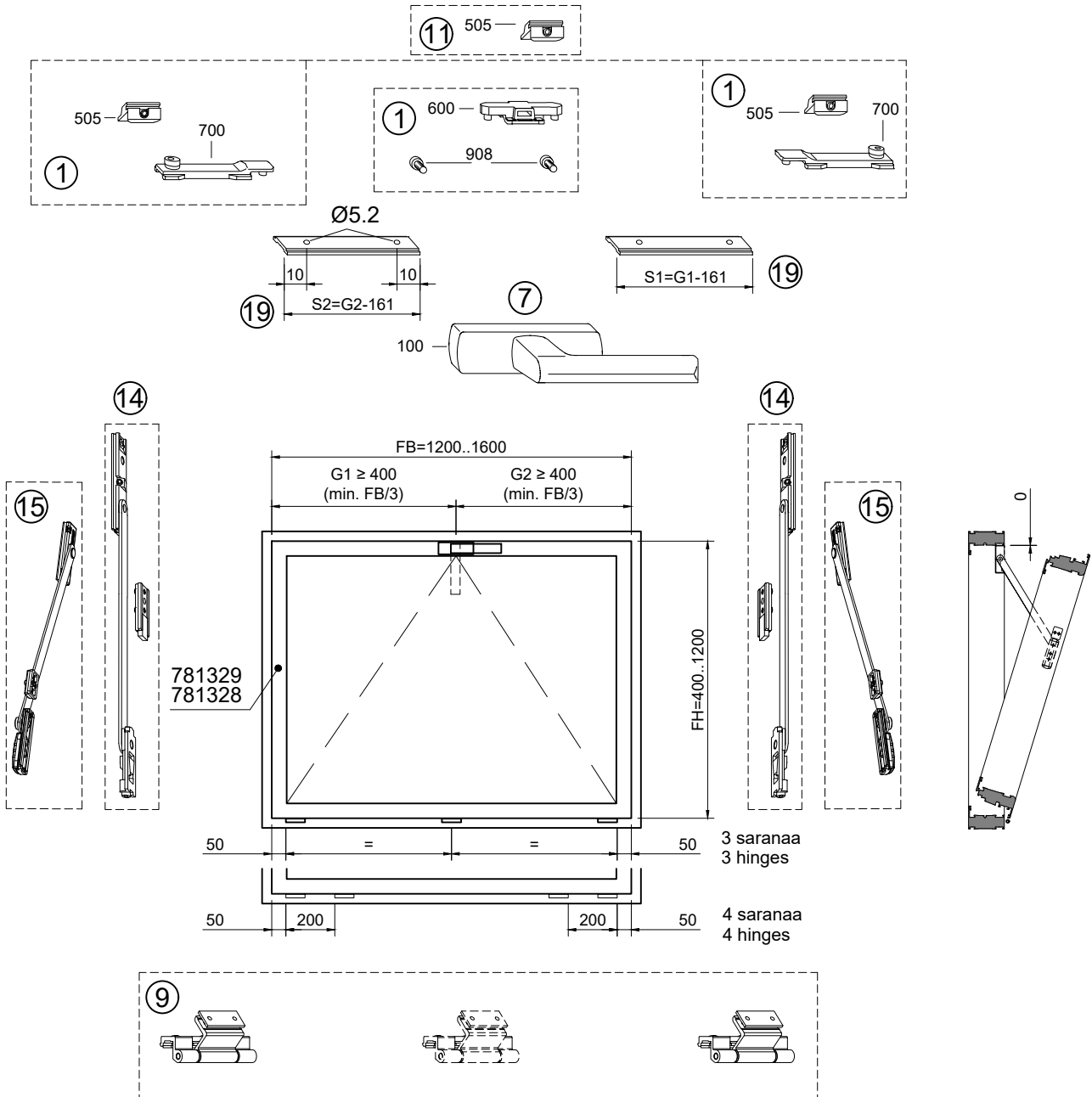


LK78X SISÄÄN AUKEAVAN IKKUNAN HELAT, ALASARANOITU

LK78X FITTINGS FOR INWARD OPENING WINDOW, BOTTOM HUNG

Puitteen enimmäispaino 100 kg Max. sash weight 100 kg	
HELASARJA/ FITTINGS	SIHE
PAINIKE/ HANDLE	SIPA
LEVEYS/ WIDTH (FB)	1200..1600
KORKEUS/ HEIGHT (FH)	400..1200

Osa Part	Nimike/ Title	Tuote/ Product	kpl/ pcs	Huom! Note!
1	Siegenia helasarja / hardware	SIHE	1	7.5.1
7	Siegenia painike / handle	SIPA	1	
9	Fapim sarana / hinge	FASA	3	Paino/ Weight < 80 kg
			4	Paino/ Weight > 80 kg
14	Siegenia aukipitolaite / hold open device	SIAU	2	FB > 450 mm
15	Fapim aukipitolaite / hold open device	FAAU		FB < 450 mm
19	Liukukisko / Sliding rail	23369/ 2651		Toimituspituus / Delivery length 6,6 m

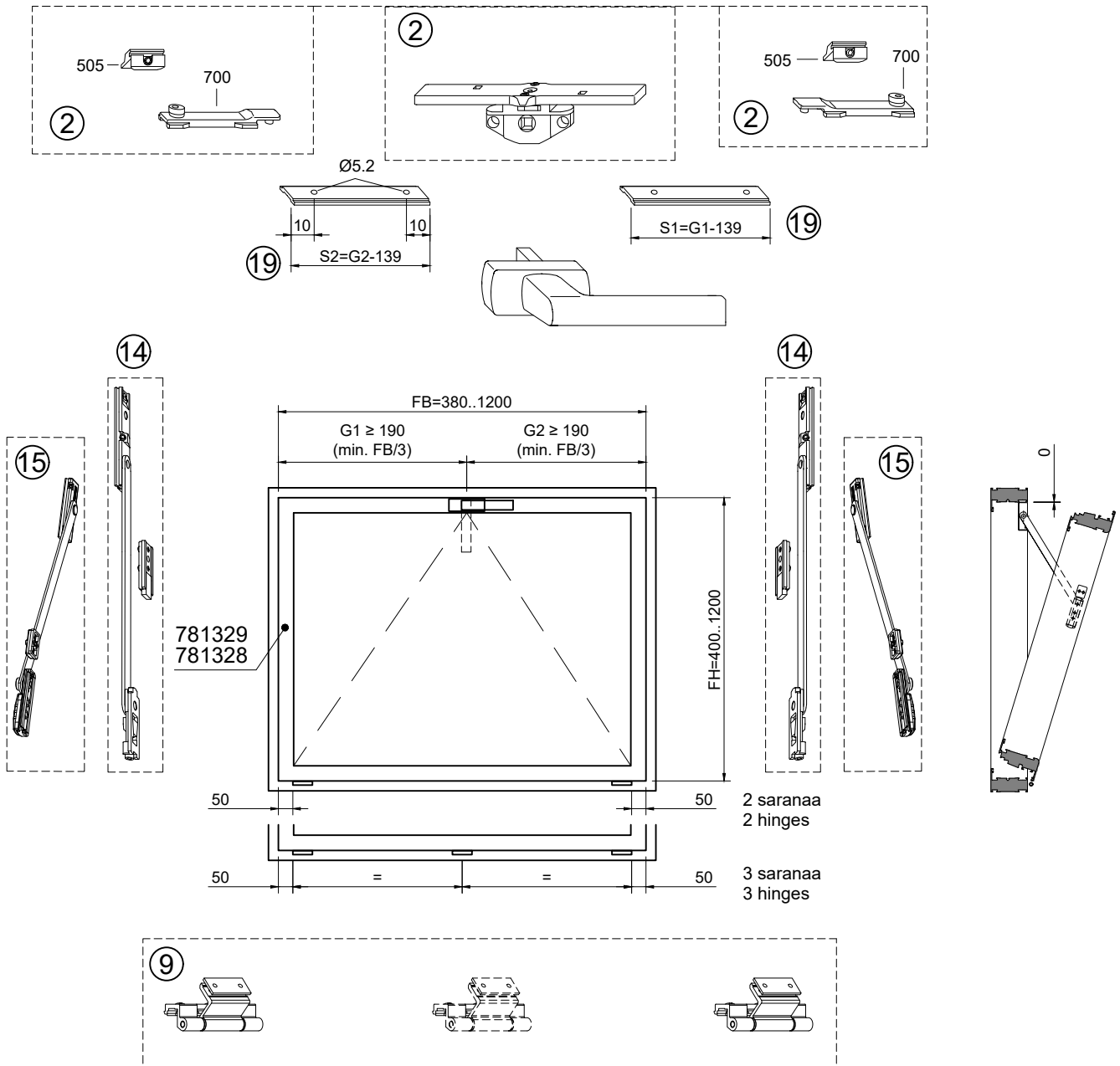


LK78X SISÄÄN AUKEAVAN IKKUNAN HELAT, ALASARANOITU

LK78X FITTINGS FOR INWARD OPENING WINDOW, BOTTOM HUNG

Puitteen enimmäispaino 100 kg Max. sash weight 100 kg	
HELASARJA/ FITTINGS	SILU
PAINIKE/ HANDLE	□ 7mm
LEVEYS/ WIDTH (FB)	360..1200
KORKEUS/ HEIGHT (FH)	400..1200

Osa Part	Nimike/ Title	Tuote/ Product	kpl/ pcs	Huom! Note!
2	Siegenia helasarja / hardware	SILU	1	7.5.5
	Painike 7 mm neliökaralla / Handle 7 mm square drive		1	Kara L= 26mm Spindle L= 26mm
9	Fapim sarana / hinge	FASA	2	Paino/ Weight < 60 kg
			3	Paino/ Weight > 60 kg
14	Siegenia aukipitolaite / hold open device	SIAU	2	FB > 450 mm
15	Fapim aukipitolaite / hold open device	FAAU		FB < 450 mm
19	Liukukisko / Sliding rail	23369/ 2651		Toimituspituus / Delivery length 6,6 m

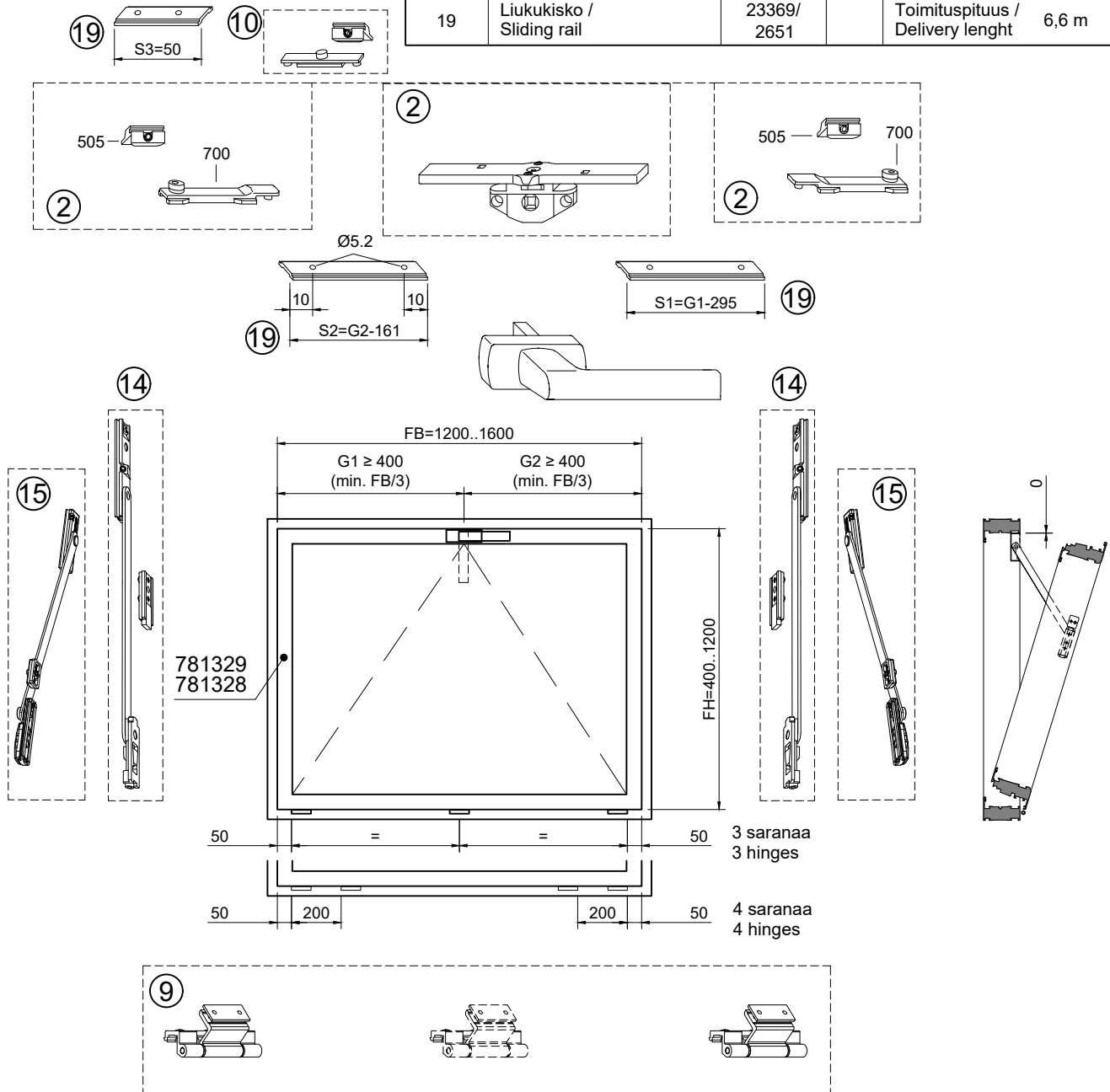


LK78X SISÄÄN AUKEAVAN IKKUNAN HELAT, ALASARANOITU

LK78X FITTINGS FOR INWARD OPENING WINDOW, BOTTOM HUNG

Puitteen enimmäispaino 100 kg Max. sash weight 100 kg	
HELASARJA/ FITTINGS	SILU
PAINIKE/ HANDLE	□ 7mm
LEVEYS/ WIDTH (FB)	1200..1600
KORKEUS/ HEIGHT (FH)	400..1200

Osa Part	Nimike/ Title	Tuote/ Product	kpl/ pcs	Huom! Note!
2	Siegenia helasarja / hardware	SILU	1	7.5.5
	Painike 7 mm neliökaralla / Handle 7 mm square drive		1	Kara L= 26mm Spindle L= 26mm
9	Fapim sarana / hinge	FASA	3	Paino/ Weight < 80 kg
			4	Paino/ Weight > 80 kg
10	Lukituspala locking piece	FALP	1	
14	Siegenia aukipitolaite / hold open device	SIAU	2	FB > 450 mm
15	Fapim aukipitolaite / hold open device	FAAU		FB < 450 mm
19	Liukukisko / Sliding rail	23369/ 2651		Toimituspituus / Delivery length 6,6 m

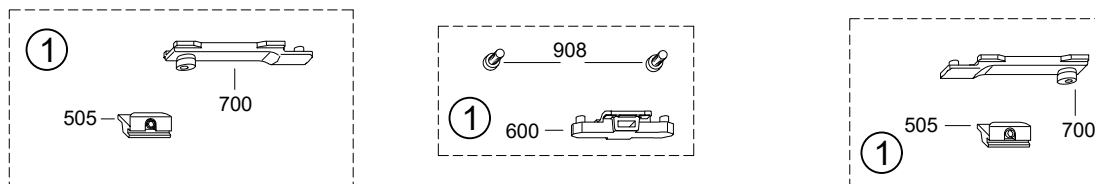
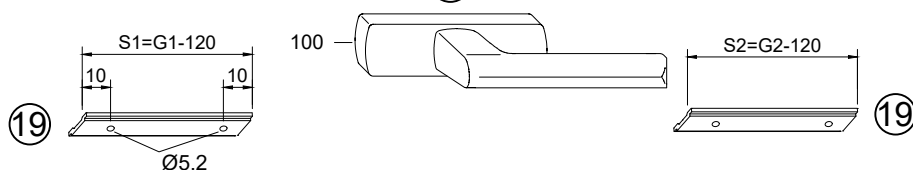
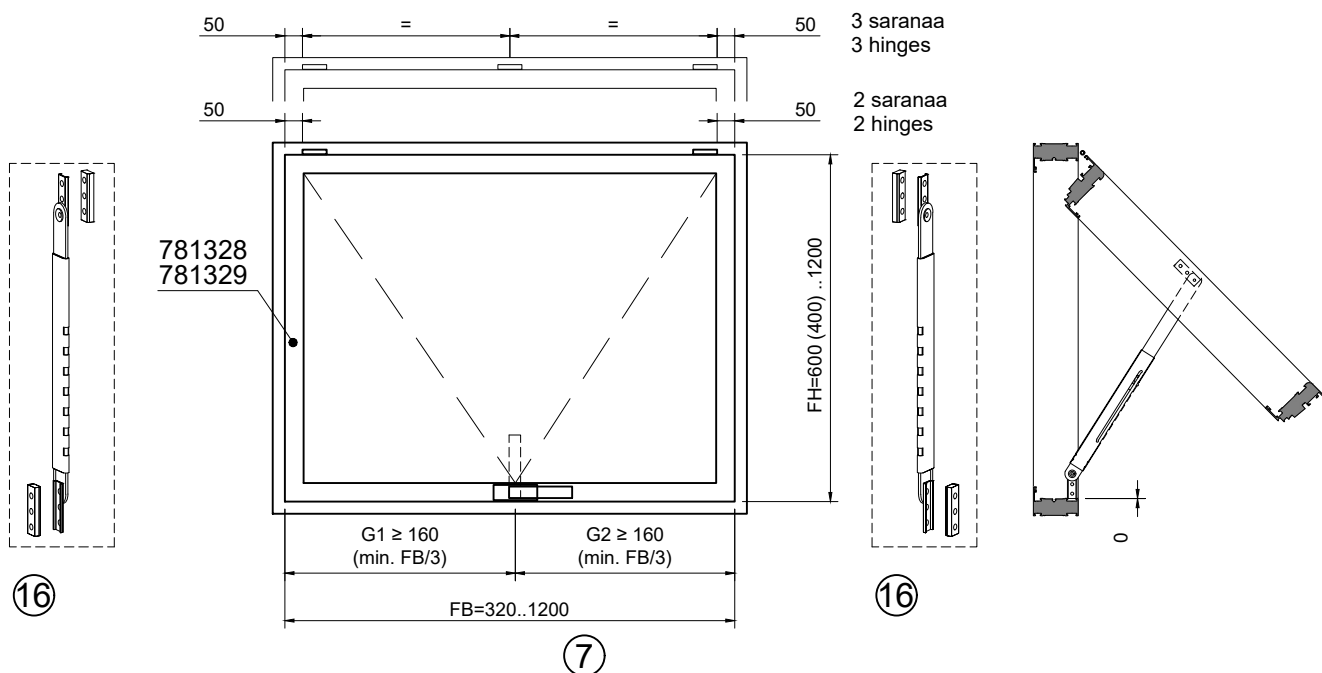
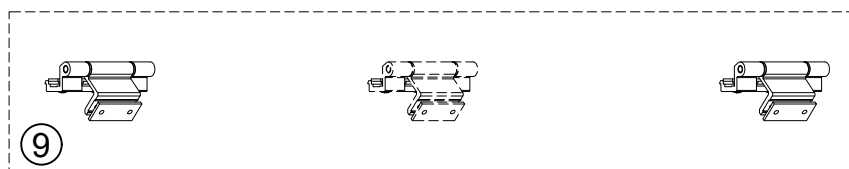


LK78X SISÄÄN AUKEAVAN IKKUNAN HELAT, YLÄSARANOITU

LK78X FITTINGS FOR INWARD OPENING WINDOW, TOP HUNG

Puitteen enimmäispaino 100 kg Max. sash weight 100 kg	
HELASARJA/ FITTINGS	SIHE
PAINIKE/ HANDLE	SIPA
LEVEYS/ WIDTH (FB)	360..1200
KORKEUS/ HEIGHT (FH)	600(400)..1200

Osa Part	Nimike/ Title	Tuote/ Product	kpl/ pcs	Huom! Note!
1	Siegenia helasarja / hardware	SIHE	1	7.5.1
7	Siegenia painike / handle	SIPA	1	
9	Fapim sarana / hinge	FASA	2	Paino/ weight < 60 kg
			3	Paino/ weight > 60 kg
16	Aukipitolaite / hold open device	FAS2B	2	FH > 600 mm
19	Liukukisko / sliding rail	23369/ 2651		Toimituspituus / delivery length 6,6 m

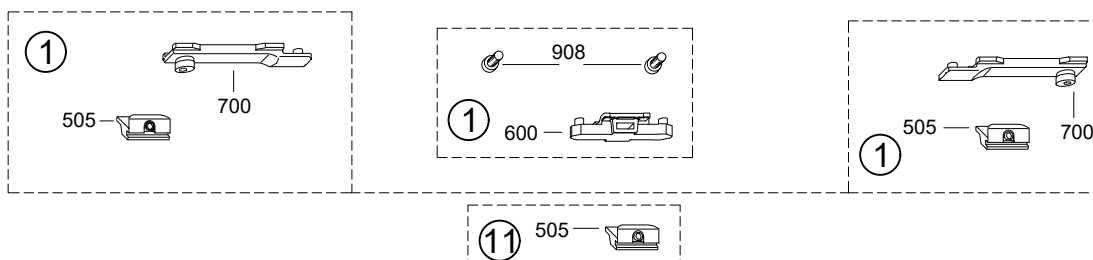
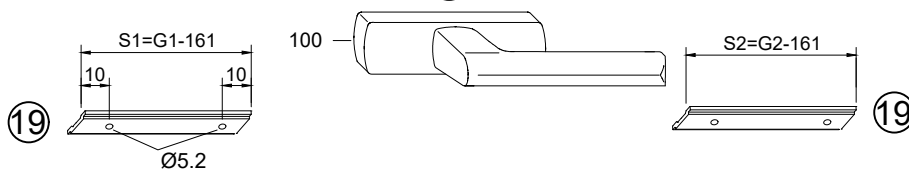
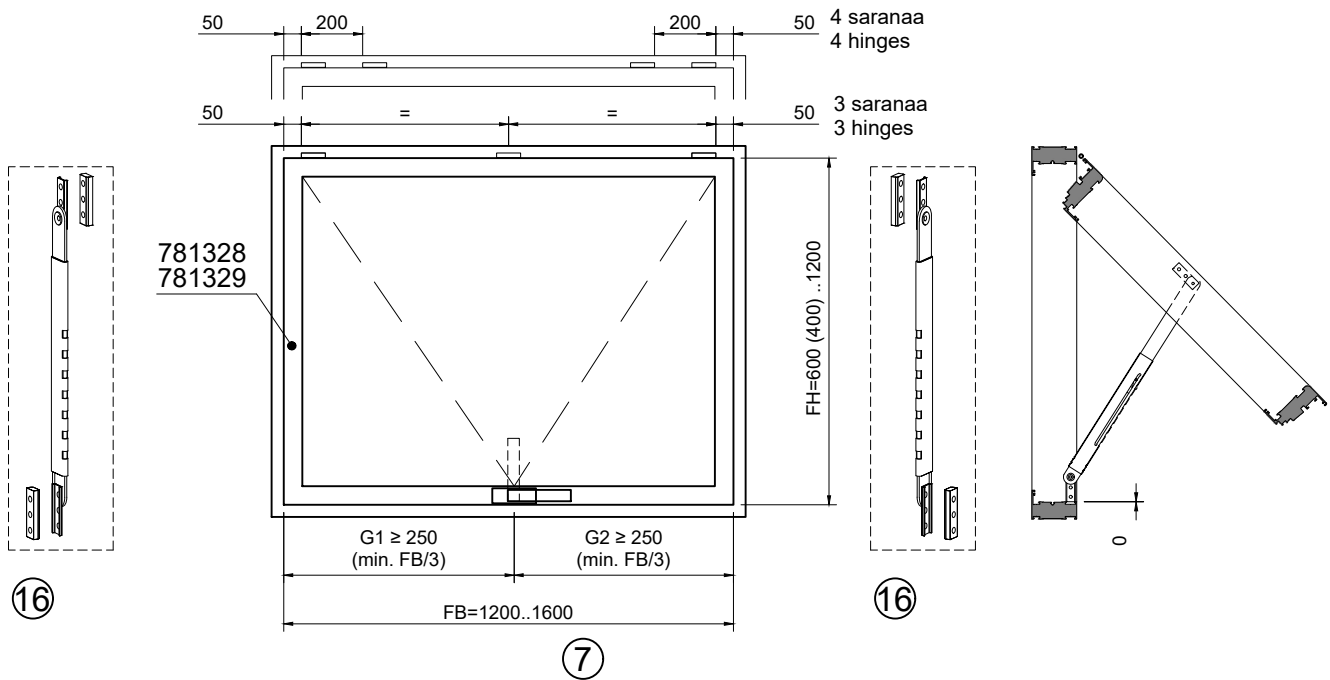


LK78X SISÄÄN AUKEAVAN IKKUNAN HELAT, YLÄSARANOITU

LK78X FITTINGS FOR INWARD OPENING WINDOW, TOP HUNG

Puitteen enimmäispaino 100 kg Max. sash weight 100 kg	
HELASARJA/ FITTINGS	SIHE
PAINIKE/ HANDLE	SIPA
LEVEYS/ WIDTH (FB)	1200..1600
KORKEUS/ HEIGHT (FH)	600(400)..1200

Osa Part	Nimike/ Title	Tuote/ Product	kpl/ pcs	Huom! Note!
1	Siegenia helasarja / hardware	SIHE	1	7.5.1
7	Siegenia painike / handle	SIPA	1	
9	Fapim sarana / hinge	FASA	3	Paino/ Weight < 80 kg
			4	Paino/ Weight > 80 kg
11	Lukituspala locking piece	FALPS	1	
16	Aukipitolaite / hold open device	FAS2B	2	FH > 600 mm
19	Liukukisko / sliding rail	23369/ 2651		Toimituspituus / delivery length 6,6 m

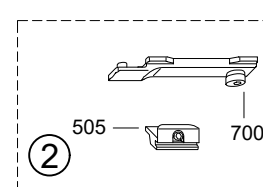
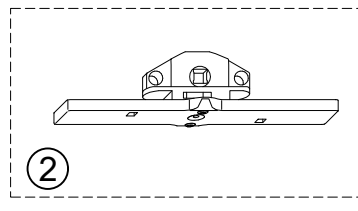
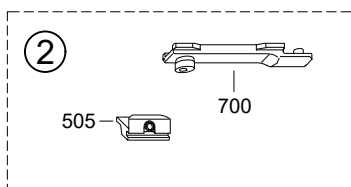
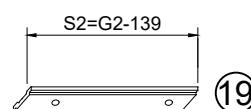
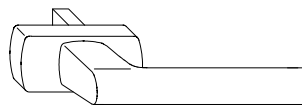
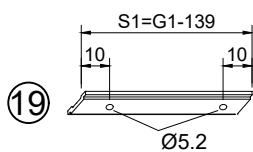
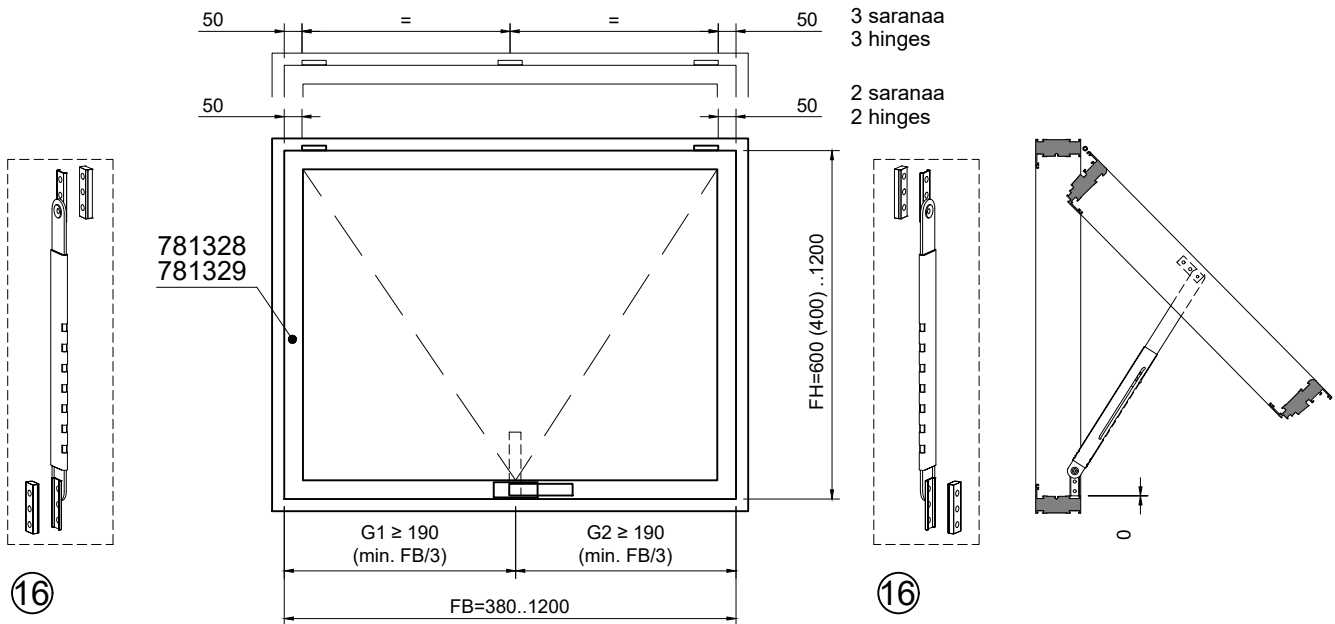
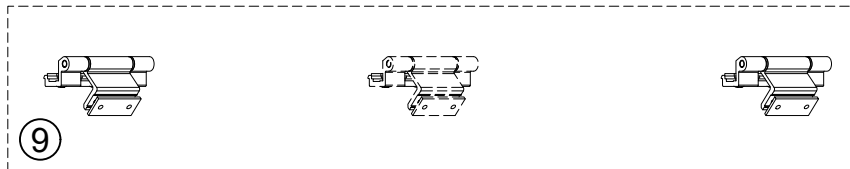


LK78X SISÄÄN AUKEAVAN IKKUNAN HELAT, YLÄSARANOITU

LK78X FITTINGS FOR INWARD OPENING WINDOW, TOP HUNG

Puitteen enimmäispaino 100 kg Max. sash weight 100 kg	
HELASARJA/ FITTINGS	SILU
PAINIKE/ HANDLE	□ 7mm
LEVEYS/ WIDTH (FB)	360..1200
KORKEUS/ HEIGHT (FH)	500..1200

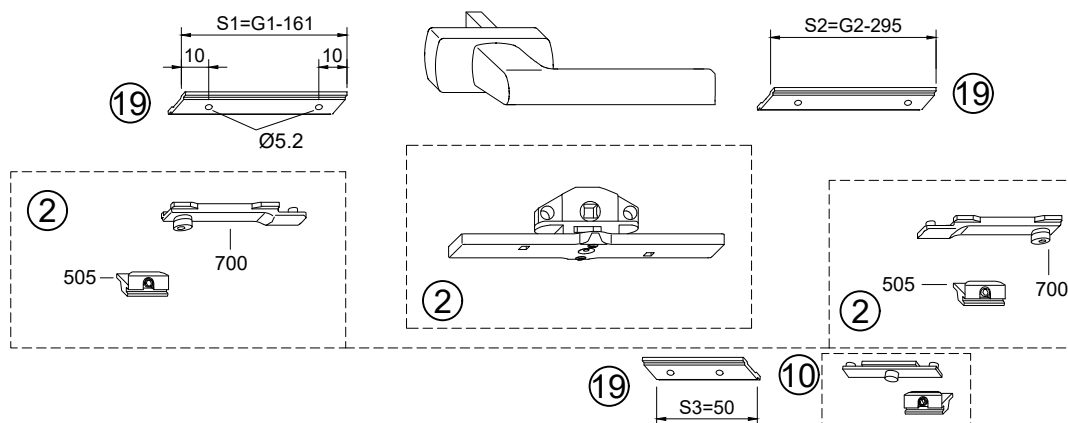
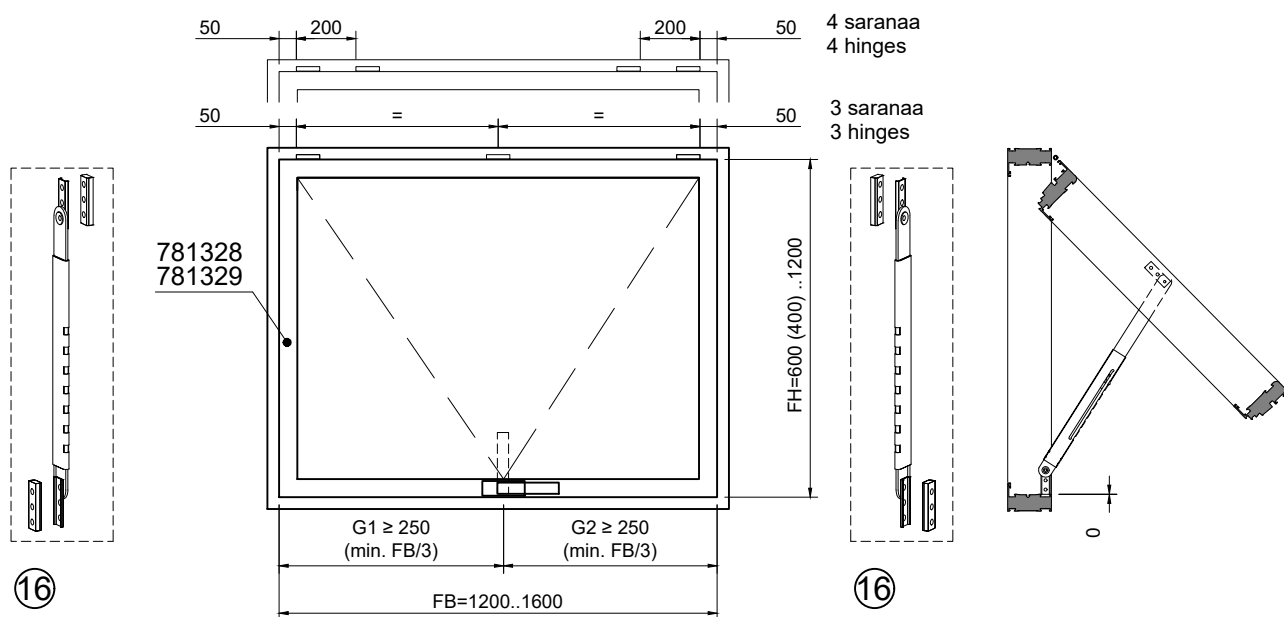
Osa Part	Nimike/ Title	Tuote/ Product	kpl/ pcs	Huom! Note!
2	Siegenia helasarja / hardware	SILU	1	7.5.5
	Painike 7 mm neliökaralla / Handle 7 mm square drive		1	Kara L= 26mm Spindle L= 26mm
9	Fapim sarana / hinge	FASA	2	Paino/ Weight < 60 kg
			3	Paino/ Weight > 60 kg
16	Aukipitolaite / hold open device	FAS2B	2	FH > 600 mm
19	Liukukisko / Sliding rail	23369/ 2651		Toimituspituus / Delivery lenght 6,6 m



LK78X SISÄÄN AUKEAVAN IKKUNAN HELAT, YLÄSARANOITU
LK78X FITTINGS FOR INWARD OPENING WINDOW, TOP HUNG

Puitteen enimmäispaino 100 kg Max. sash weight 100 kg	
HELASARJA/ FITTINGS	SILU
PAINIKE/ HANDLE	☐ 7mm
LEVEYS/ WIDTH (FB)	500..1200
KORKEUS/ HEIGHT (FH)	500..1200

Osa Part	Nimike/ Title	Tuote/ Product	kpl/ pcs	Huom! Note!
2	Siegenia helasarja / hardware	SILU	1	7.5.5
	Painike 7 mm neliökaralla / handle 7 mm square drive		1	Kara L= 26mm spindle L= 26mm
9	Fapim sarana / hinge	FASA	3	Paino/ weight < 80 kg
			4	Paino/ weight > 80 kg
10	Lukituspala locking piece	FALP	1	
16	Aukipitolaite / hold open device	FAS2B	2	FH > 600 mm
19	Liukukisko / sliding rail	23369/ 2651		Toimituspituus / delivery lenght 6,6 m

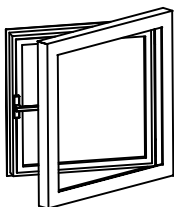


LK78X ULOSAUKEAVAT IKKUNAT

LK78X OUTWARD OPENING WINDOWS

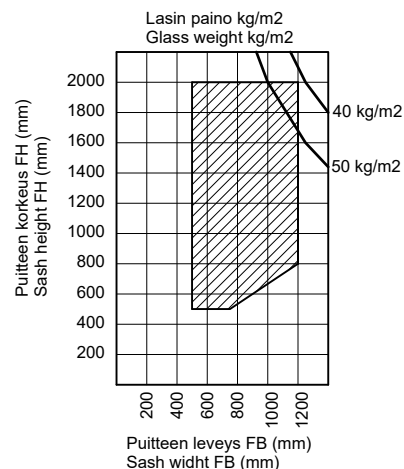
SIVUSARANOITU IKKUNA

SIDE HUNG WINDOW



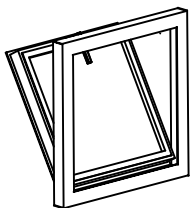
Ikkunan mittasuhte FB/FH < 1.2
Max. width/ height ratio FB/FH < 1.2

Puitteen/ Sash		Puitteen enimmäispaino 100 kg Max. sash weight 100 kg			
Leveys FB Widht	Korkeus FH Heigth	Helasarja Hardware	Painike Handle	Saranat Hinges	Sivu Page
500 - 1200	500 - 1200	GILU	□ 7	FASA	9.2.1.1
500 - 1200	1200 - 2000	GILU	□ 7	FASA	9.2.1.2

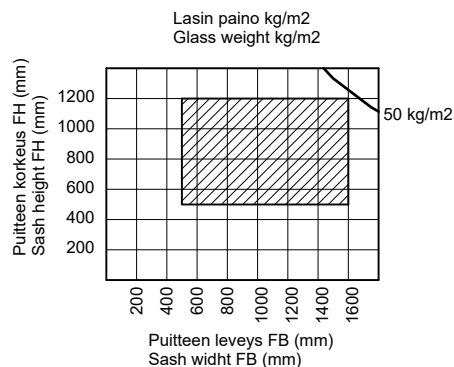


ALASARANOITU IKKUNA

BOTTOM HUNG WINDOW

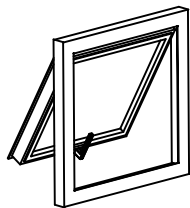


Puitteen/ Sash		Puitteen enimmäispaino 100 kg Max. sash weight 100 kg			
Leveys FB Widht	Korkeus FH Heigth	Helasarja Hardware	Painike Handle	Saranat Hinges	Sivu Page
500 - 1200	500 - 1200	GILU	□ 7	FASA	9.2.2.1
1200 - 1600	500 - 1200	GILU	□ 7	FASA	9.2.2.2

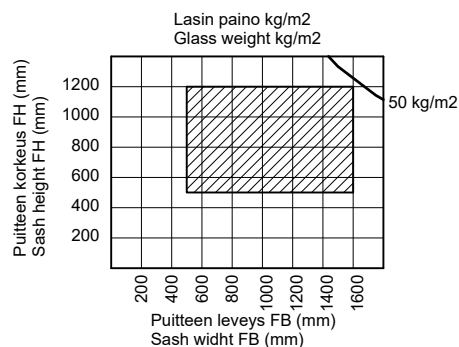


YLÄSARANOITU IKKUNA

TOP HUNG WINDOW



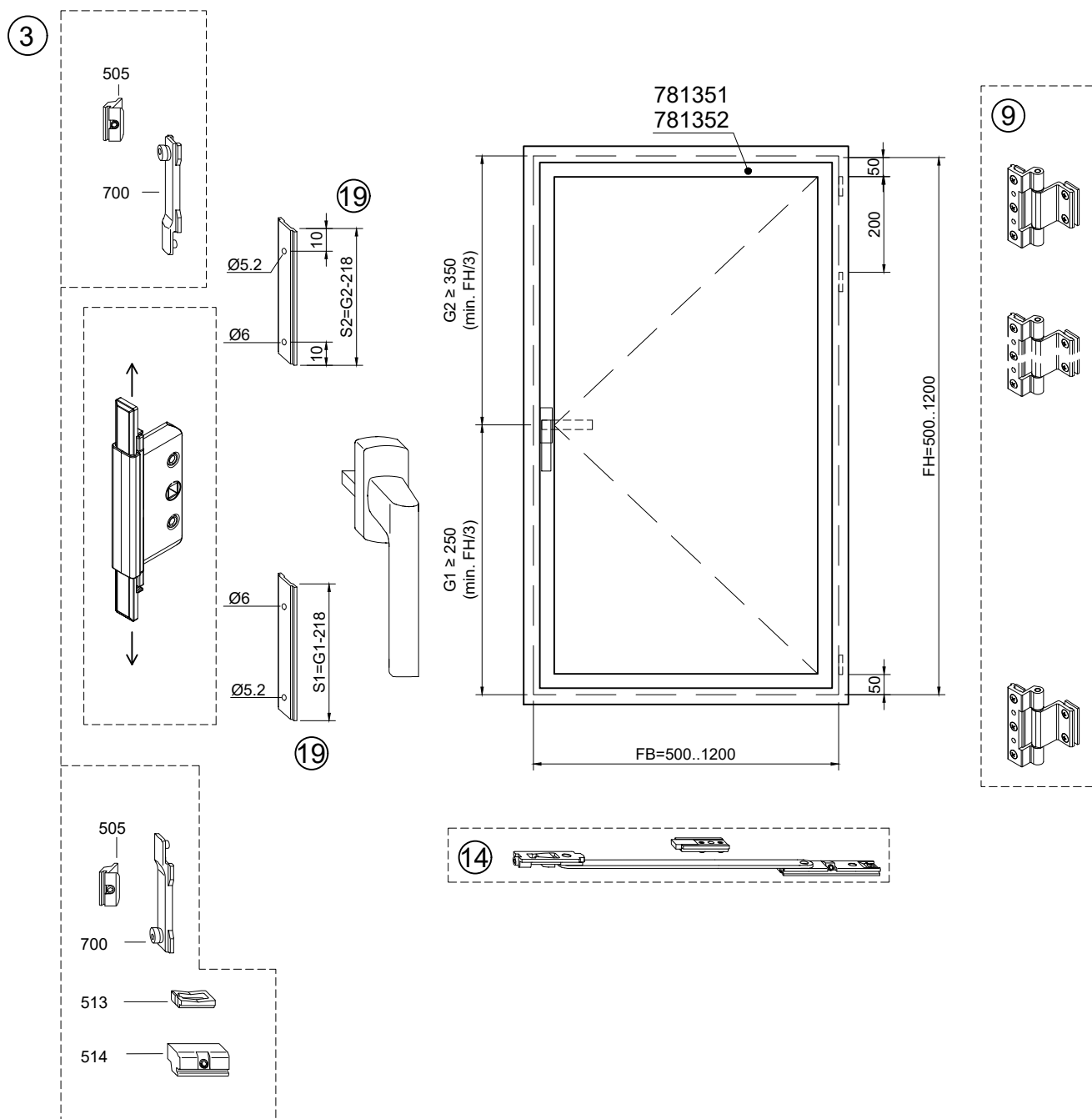
Puitteen/ Sash		Puitteen enimmäispaino 100 kg Max. sash weight 100 kg			
Leveys FB Widht	Korkeus FH Heigth	Helasarja Hardware	Painike Handle	Saranat Hinges	Sivu Page
500 - 1200	500 - 1200	GILU	□ 7	FASA	9.2.3.1
1200 - 1600	500 - 1200	GILU	□ 7	FASA	9.2.3.2



LK78X ULOSAUKEAVAN IKKUNAN HELAT, SIVUSARANOITU
LK78X FITTINGS FOR OUTWARD OPENING WINDOW, SIDE HUNG

Puitteen enimmäispaino 100 kg Max. sash weight 100 kg	
Ikkunan mittasuhte: FB/FH < 1.5 Max. width/ height ratio FB/FH < 1.5	
HELASARJA/ FITTINGS	GILU
PAINIKE/ HANDLE	☐ 7mm
LEVEYS/ WIDTH (FB)	500..1200
KORKEUS/ HEIGHT (FH)	500..1200

Osa Part	Nimike/ Title	Tuote/ Product	kpl/ pcs	Huom! Note!
3	Helasarja / hardware	GILU	1	7.5.6
	Painike 7 mm neliökaralla / Handle 7 mm square drive		1	Kara L= 70mm Spindle L= 70mm
9	Saranat / Hinges	FASA	2	Paino/ Weight < 70 kg
			3	Paino/ Weight > 70 kg
14	Aukipitolaite / Hold open device	SIAU	1	
19	Liukukisko / Sliding rail	23369/ 2651		Toimituspituus / Delivery lenght 6,6 m

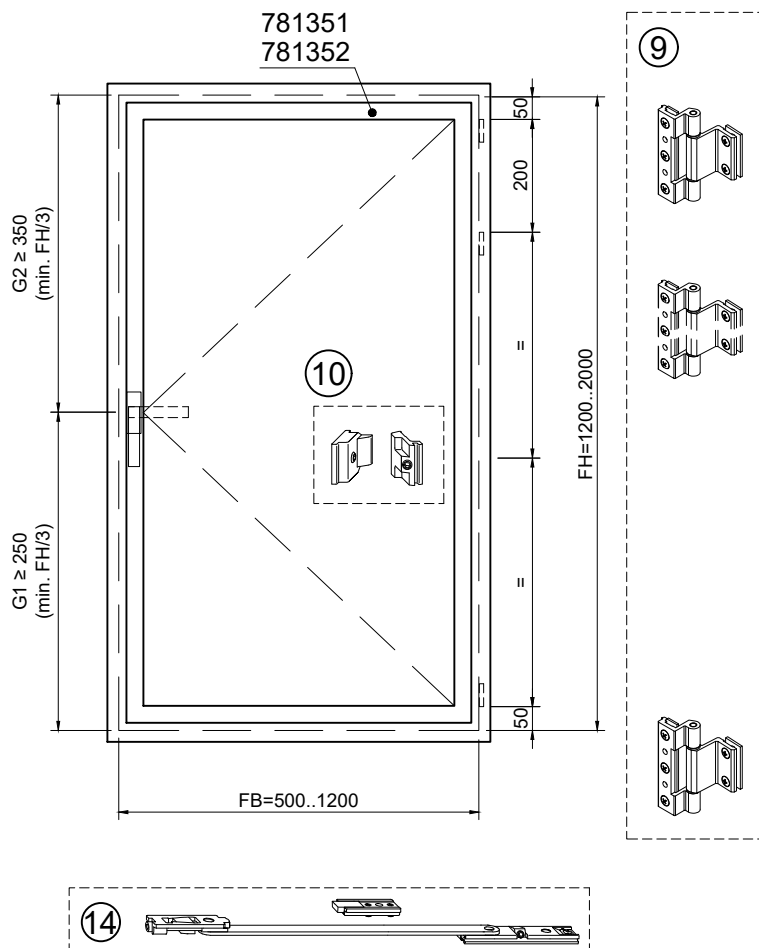
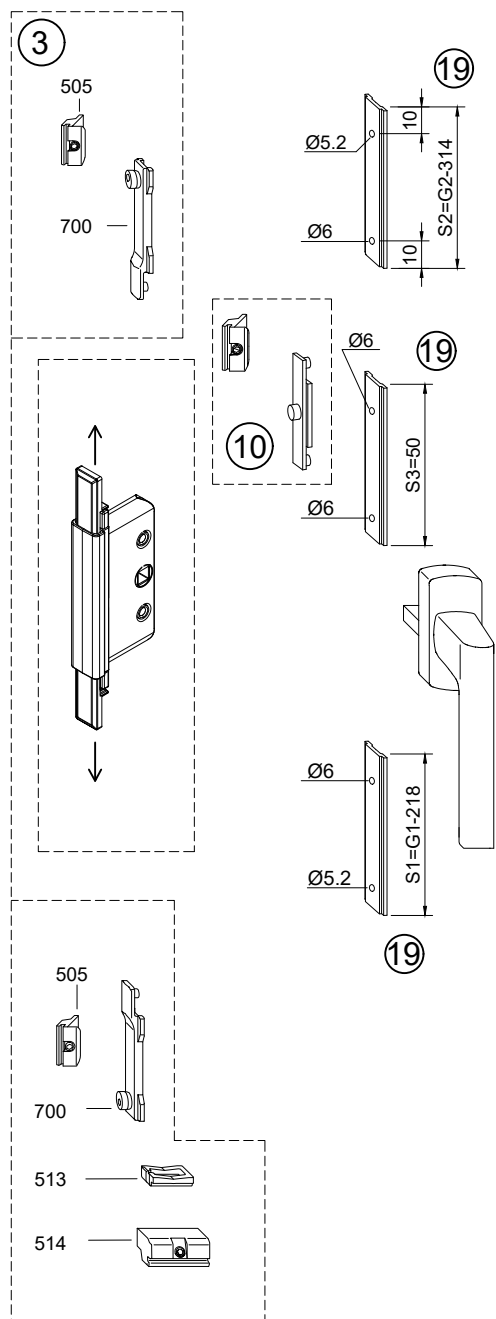


LK78X ULOSAUKEAVAN IKKUNAN HELAT, SIVUSARANOITU

LK78X FITTINGS FOR OUTWARD OPENING WINDOW, SIDE HUNG

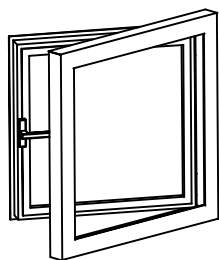
Puutteen enimmäispaino 100 kg Max. sash weight 100 kg	
Ikkunan mittasuhte: FB/FH < 1.5 Max. width/ height ratio FB/FH < 1.5	
HELASARJA/ FITTINGS	GILU
PAINIKE/ HANDLE	□ 7mm
LEVEYS/ WIDTH (FB)	500..1200
KORKEUS/ HEIGHT (FH)	1200..2000

Osa Part	Nimike/ Title	Tuote/ Product	kpl/ pcs	Huom! Note!
3	Helasarja / hardware	GILU	1	7.5.6
	Painike 7 mm neliökaralla / handle 7 mm square drive		1	Kara L= 70mm spindle L= 70mm
9	Saranat / hinge	FASA	2	Paino/ Weight < 70 kg
			3	Paino/ Weight > 70 kg
10	Lukituspala + kiripala / locking + tightening piece	FALP	1	
14	Aukipitolaite / hold open device	SIAU	1	
19	Liukukisko / sliding rail	23369/ 2651		Toimituspituus / delivery length 6,6 m



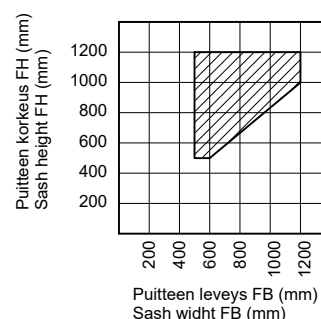
LK78X ULOSAUKEAVAT IKKUNAT LK78X OUTWARD OPENING WINDOWS

SIVUSARANOITU, PILOSARANAT SIDE HUNG WINDOW, CONCEALAD HINGE

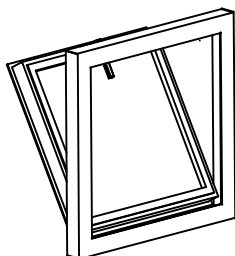


Ikkunan mittasuhte FB/FH < 1.2
Max. width/ height ratio FB/FH < 1.2

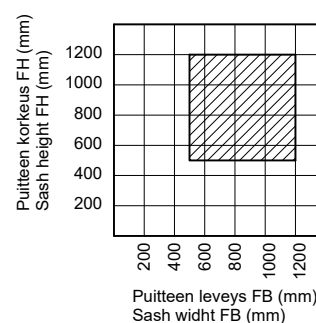
Puitteen/ Sash		Puitteen enimmäispaino 100 kg Max. sash weight 100 kg		
Leveys FB Widht	Korkeus FH Heigth	Helasarja Hardware	Painike Handle	Saranat Hinges
500 - 1200	500 - 1200	GILU	□ 7	MAGIS- HL/HR



ALASARANOITU, PILOSARANAT BOTTOM HUNG WINDOW, CONCEALAD HINGE



Puitteen/ Sash		Puitteen enimmäispaino 100 kg Max. sash weight 100 kg		
Leveys FB Widht	Korkeus FH Heigth	Helasarja Hardware	Painike Handle	Saranat Hinges
500 - 1200	500 - 1200	GILU	□ 7	MAGISBH

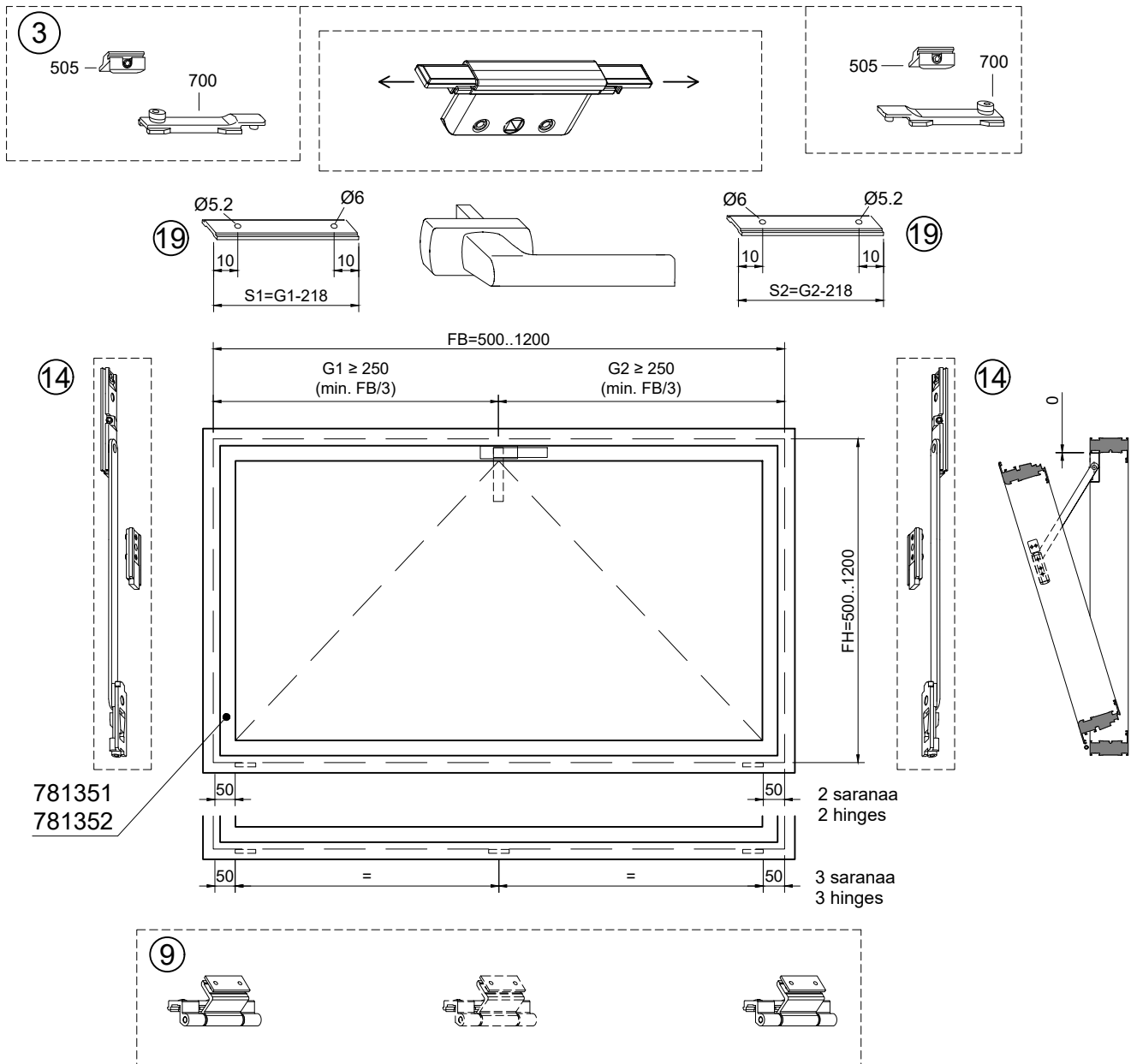


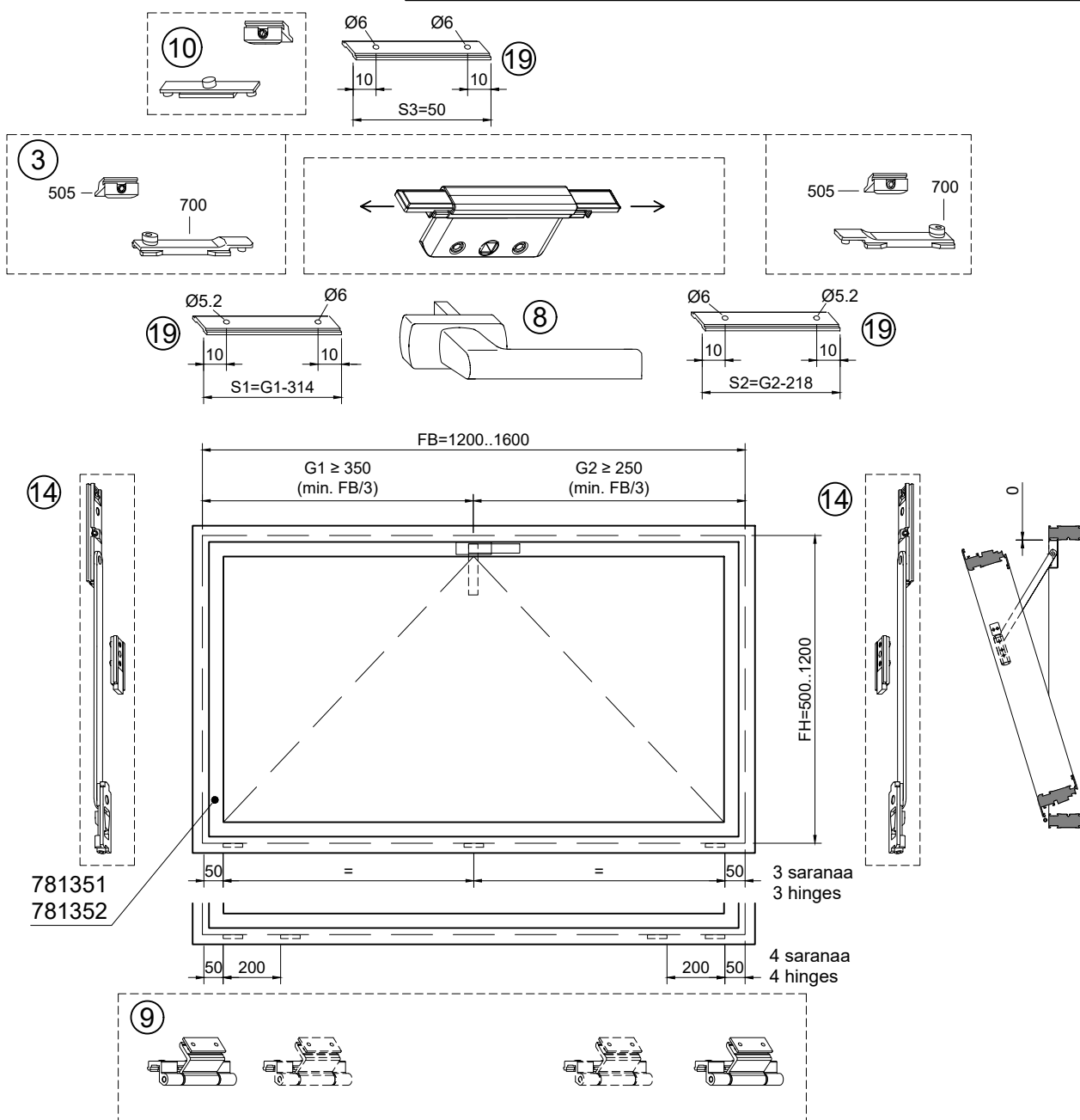
LK78X ULOS AUKEAVAN IKKUNAN HELAT, ALASARANOITU

LK78X FITTINGS FOR OUTWARD OPENING WINDOW, BOTTOM HUNG

Puitteen enimmäispaino 100 kg Max. sash weight 100 kg	
HELASARJA/ FITTINGS	GILU
PAINIKE/ HANDLE	□ 7mm
LEVEYS/ WIDTH (FB)	500..1200
KORKEUS/ HEIGHT (FH)	500..1200

Osa Part	Nimike/ Title	Tuote/ Product	kpl/ pcs	Huom! Note!
3	Helasarja / hardware	GILU	1	7.5.6
	Painike 7 mm neliökaralla / Handle 7 mm square drive		1	Kara L= 70mm spindle L= 70mm
9	Saranat / Hinges	FASA	2	Paino/ Weight < 60 kg
			3	Paino/ Weight > 60 kg
14	Aukipitolaite / hold open device	SIAU	1	
19	Liukukisko / sliding rail	23369/ 2651		Toimituspituus / delivery length 6,6 m



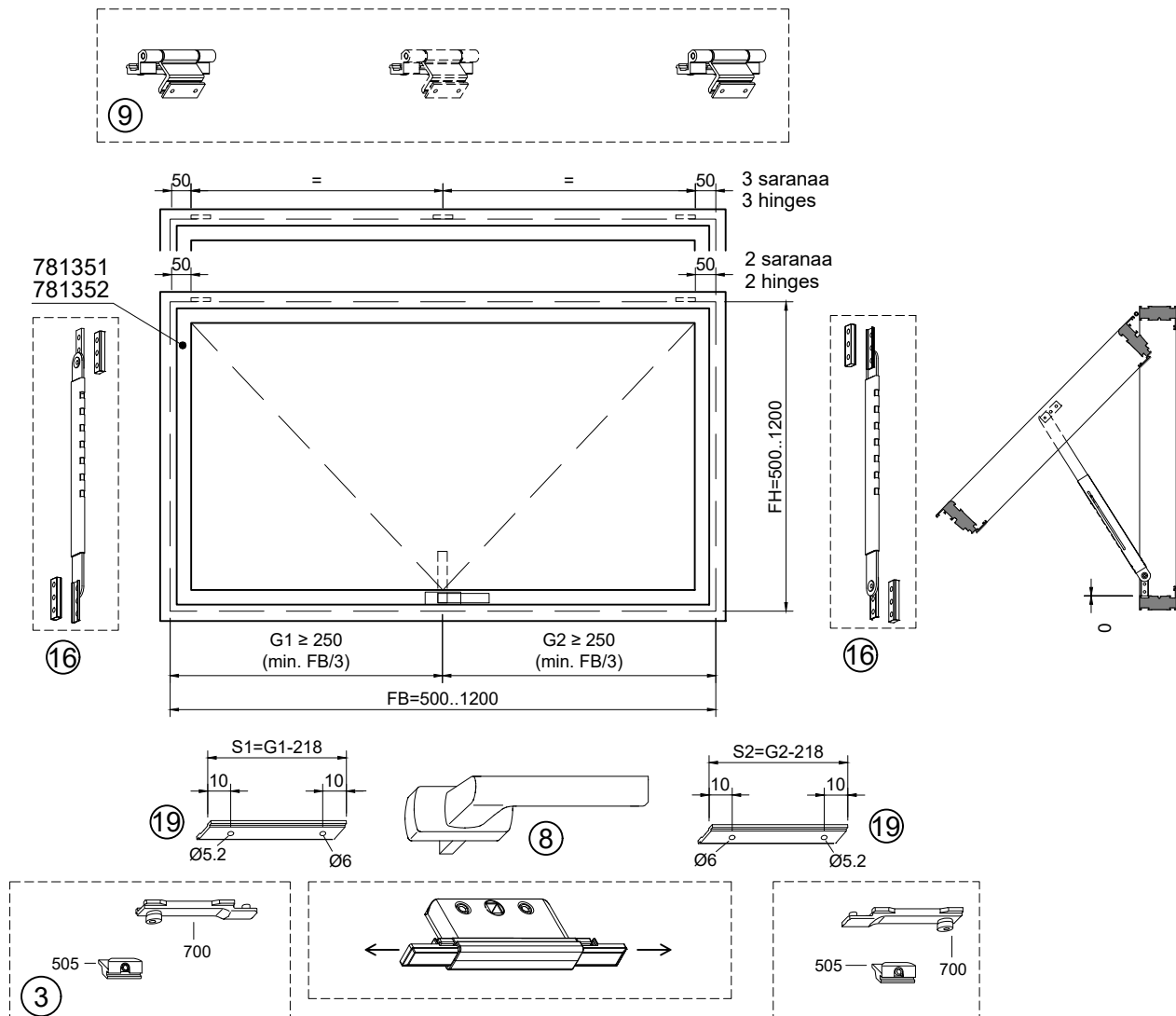


LK78X ULOSAUKEAVAN IKKUNAN HELAT, YLÄSARANOITU

LK78X FITTINGS FOR OUTWARD OPENING WINDOW, TOP HUNG

Puitteen enimmäispaino 100 kg Max. sash weight 100 kg	
HELASARJA/ FITTINGS	GILU
PAINIKE/ HANDLE	□ 7mm
LEVEYS/ WIDTH (FB)	500..1200
KORKEUS/ HEIGHT (FH)	500..1200

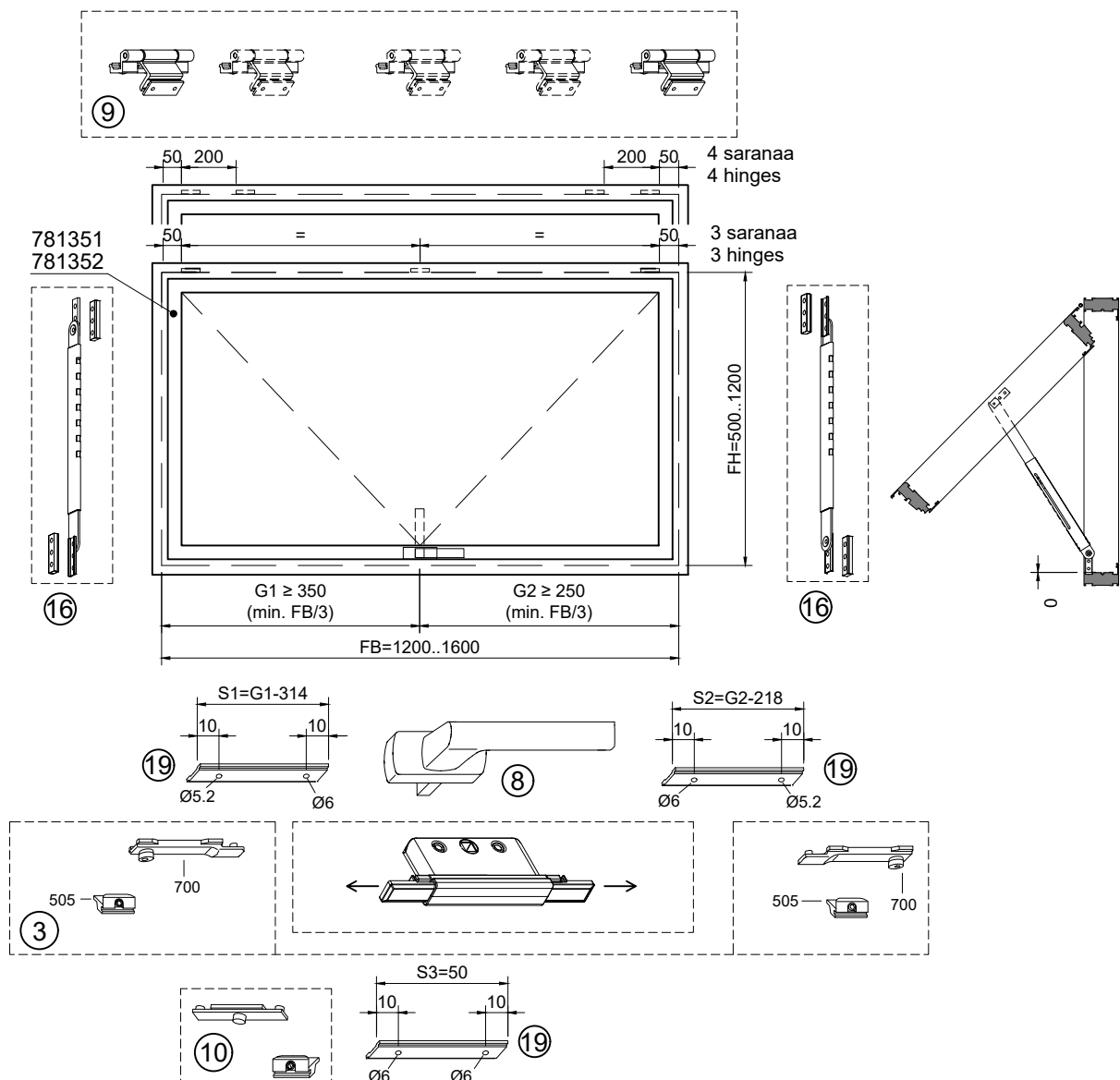
Osa Part	Nimike/ Title	Tuote/ Product	kpl/ pcs	Huom! Note!
3	Helasarja / hardware	GILU	1	7.5.6
	Painike 7 mm neliökaralla / Handle 7 mm square drive		1	Kara L= 70mm Spindle L= 70mm
9	Saranat / Hinges	FASA	2	Paino/ Weight < 60 kg
			3	Paino/ Weight > 60 kg
16	Aukipitolaite / hold open device	FAS2B	2	FH > 600
19	Liukukisko / Sliding rail	23369/ 2651		Toimituspituus / Delivery lenght 6,6 m



LK78X ULOSAUKEAVAN IKKUNAN HELAT, YLÄSARANOITU
LK78X FITTINGS FOR OUTWARD OPENING WINDOW, TOP HUNG

Puitteen enimmäispaino 100 kg Max. sash weight 100 kg	
HELASARJA/ FITTINGS	GILU
PAINIKE/ HANDLE	☐ 7mm
LEVEYS/ WIDTH (FB)	1200..1600
KORKEUS/ HEIGHT (FH)	500..1200

Osa Part	Nimike/ Title	Tuote/ Product	kpl/ pcs	Huom! Note!
3	Helasarja / hardware	GILU	1	7.5.6
	Painike 7 mm neliökaralla / Handle 7 mm square drive		1	Kara L= 70mm Spindle L= 70mm
9	Saranat / Hinges	FASA	3	Paino/ Weight < 80 kg
			4	Paino/ Weight > 80 kg
10	Lukituspala + kiripala / Locking + tightening piece	FALP	1	
16	Aukipitolaite / hold open device	FAS2B	2	
19	Liukukisko / Sliding rail	23369/ 2651		Toimituspituus / Delivery lenght 6,6 m



LASITUSOHJE GLAZING INSTRUCTIONS

Ennen lasittamista:

- varmistetaan, että lasikynnteet, lasilistat ja lasit ovat puhtaat ja kuivat.
- Tiivisteiden katkaisussa on huomioitava *kutistumisvara*, joka on on n. 5 mm metriä kohden. Tiivisteiden nurkka- ja jatkoskohdat liimataan ja tiivistetään massalla. Toimittamiemme tiivisteiden materiaali on EPDM-kumia. Kyseiset tiivisteet kestävät erittäin hyvin lämpötilojen vaihtelua, lämpöä ja vanhenemista.

Tiivisteiden asennus suoritetaan seuraavasti:

Ulkopuolen lasitustiiviste sovitetaan profiliuraan. Lasin asennuksen jälkeen asennetaan kyntetilan tiiviste PE2. Lasituslistojen asennuksen jälkeen sovitetaan sisäpuolen jälkiasennustiiviste paikoilleen. Jälkiasennustiivisteiden asennusta voidaan helpottaa käyttöön soveltuvalle 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.

Kiilatyyppit:

- 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 vaihtelua kestävästä muovista, jonka kovuus on 60°-80° Shore A tai muusta vastaavasta materiaalista. Kannatuskiilojen pituus on vähintään 80 mm ja leveys valitaan siten, että kiilat kantavat ja tukevat umpiolasia koko sen paksuudelta. Kannatuskiilojen paksuus on vähintään 5 mm.

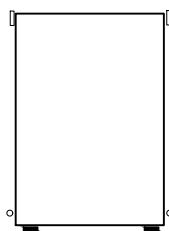
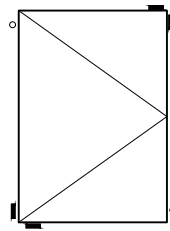
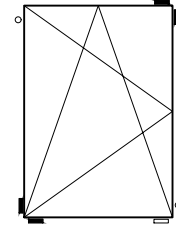
Tuki- ja kuljetuskiilat tulee olla paksuudeltaan joustavia ja ne eivät saa haitata kannatuskiilojen toimintaa. Tukikiilat estävät lasiruudun liikkumisen käytössä. Tuki- ja kuljetuskiilojen pituus on vähintään 50 mm ja leveys sama kuin kannatuskiiloilla.

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.

Lasituksessa on huomioitava standardin ”SFS-EN 12488 Rakennuslasit. Lasitus-suositukset. Lasin asennusohjeet pystysuoriin ja kalteviin rakenteisiin” ohjeet.

KIINTEÄ IKKUNA

SIVUSARANOITU
IKKUNASIVU-/ALASARANOITU
IKKUNA

— KANNATUSKIILA / bearing pad

□ TUKIKIILA / lock pad

○ KULJETUSKIILA / transport pad

GLAZING INSTRUCTIONS

Before commencing glazing:

- It must be ensured that glass rebates, glazing beads and glass panes are clean and dry.
- 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.

Installation of strips is as follows:

Exterior glazing strips are fitted into the profile groove.

When the glass pane and glazing beads have been installed, retrofit strip 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 (60° to 80° Shore A hardness) or equivalent which is resistant to weather and

changes in temperature. The pads min. 80 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 50 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.

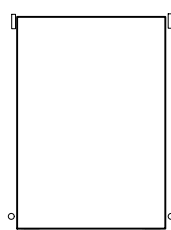
The glazing must follow the instructions of standard "EN 12488 Glass in building. Glazing recommendations. Assembly principles for vertical and sloping glazing"

— BEARING PAD

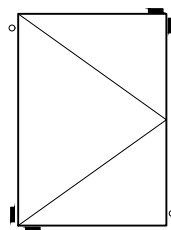
— LOCK PAD

○ TRANSPORT PAD

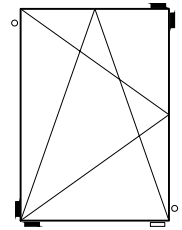
FIXED WINDOW



SIDE-HUNG WINDOW



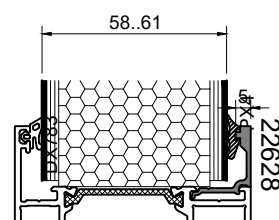
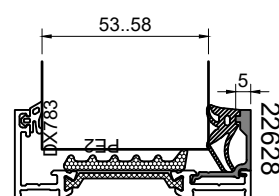
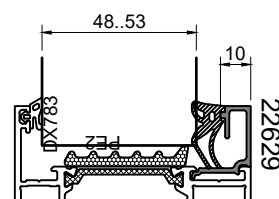
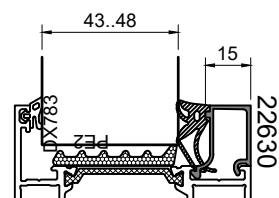
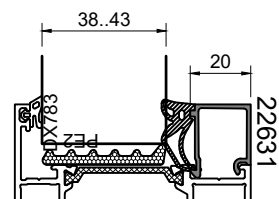
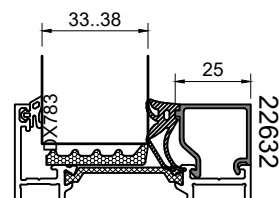
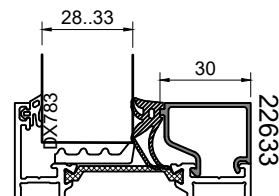
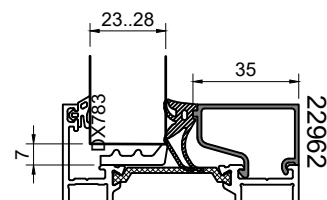
SIDE/BOTTOM HUNG WINDOW



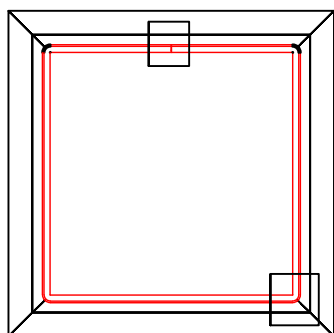
LASITUSLISTOJEN JA TIIVISTEIDEN VALINTA SELECTING GLAZING BEADS AND SEALINGS

Lasin paksuus Glazing thickness	Lasituslista Glazing bead	Ulkopuolentiiviste Outer gasket	Sisäpuolentiiviste Inner gasket
23	22962	DX783	770 111
24	22962	DX783	770 111
25	22962	DX783	770 109
26	22962	DX783	770 109
27	22962	DX783	770 107
28	22962	DX783	770 107
28	22633	DX783	770 111
29	22633	DX783	770 111
30	22633	DX783	770 109
31	22633	DX783	770 109
32	22633	DX783	770 107
33	22633	DX783	770 107
33	22632	DX783	770 111
34	22632	DX783	770 111
35	22632	DX783	770 109
36	22632	DX783	770 109
37	22632	DX783	770 107
38	22632	DX783	770 107
38	22631	DX783	770 111
39	22631	DX783	770 111
40	22631	DX783	770 109
41	22631	DX783	770 109
42	22631	DX783	770 107
43	22631	DX783	770 107
43	22630	DX783	770 111
44	22630	DX783	770 111
45	22630	DX783	770 109
46	22630	DX783	770 109
47	22630	DX783	770 107
48	22630	DX783	770 107
48	22629	DX783	770 111
49	22629	DX783	770 111
50	22629	DX783	770 109
51	22629	DX783	770 109
52	22629	DX783	770 107
53	22629	DX783	770 107
53	22628	DX783	770 111
54	22628	DX783	770 111
55	22628	DX783	770 109
56	22628	DX783	770 109
57	22628	DX783	770 107
58	22628	DX783	770 107

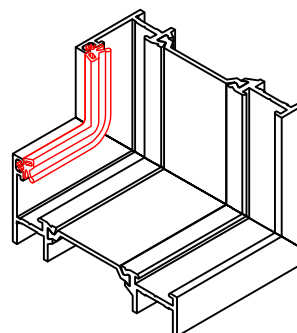
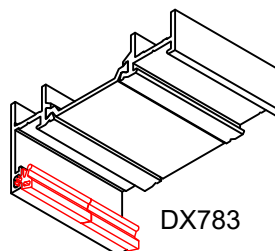
Umpiosan paksuus Panel thickness	Lasituslista Glazing bead	Ulkopuolentiiviste Outer gasket	Sisäpuolentiiviste Inner gasket
58	22628	DX783	PX5
59	22628	DX783	PX4
60	22628	DX783	PX4



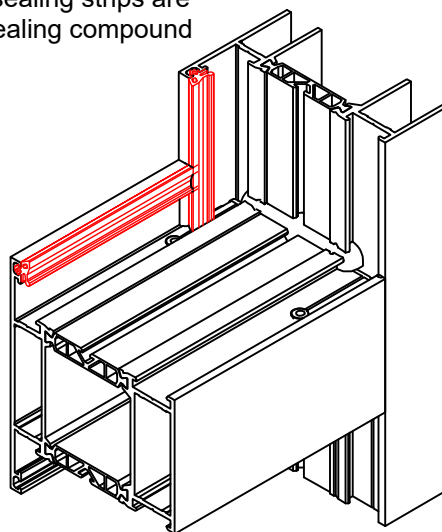
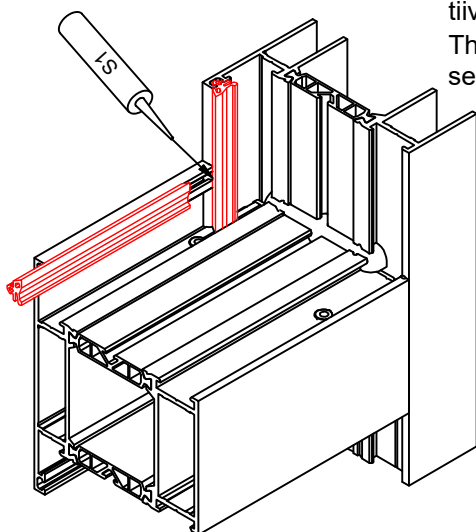
ULKOPUOLEN LASITUSTIIVISTEEN ASENNUS INSTALLATION OF OUTER GASKET



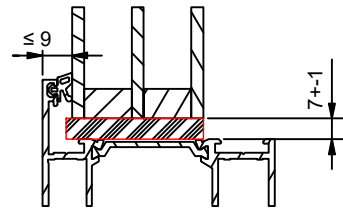
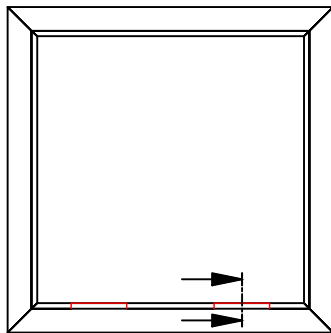
Ulkopuolen tiiviste jatkuvana nurkkien.
Tiivisteiden jatkos lasin yläreunaan.
Outside sealing comes continuous
around the corners and the joint comes
in upper edge.



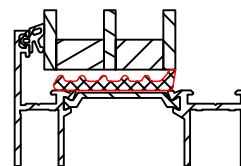
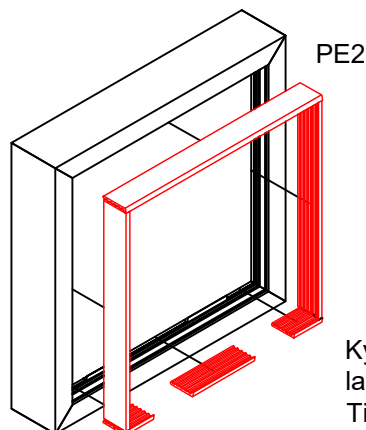
Tiivisteiden liitokset
tiivistetään massalla
The joints of sealing strips are
sealed with sealing compound



LASIKIILOJEN, LASIEN JA KYNTETILAN TIIVISTEEN ASENNUS INSTALLATION OF GLASS PADDINGS, GLAZING AND REBATE SEALING

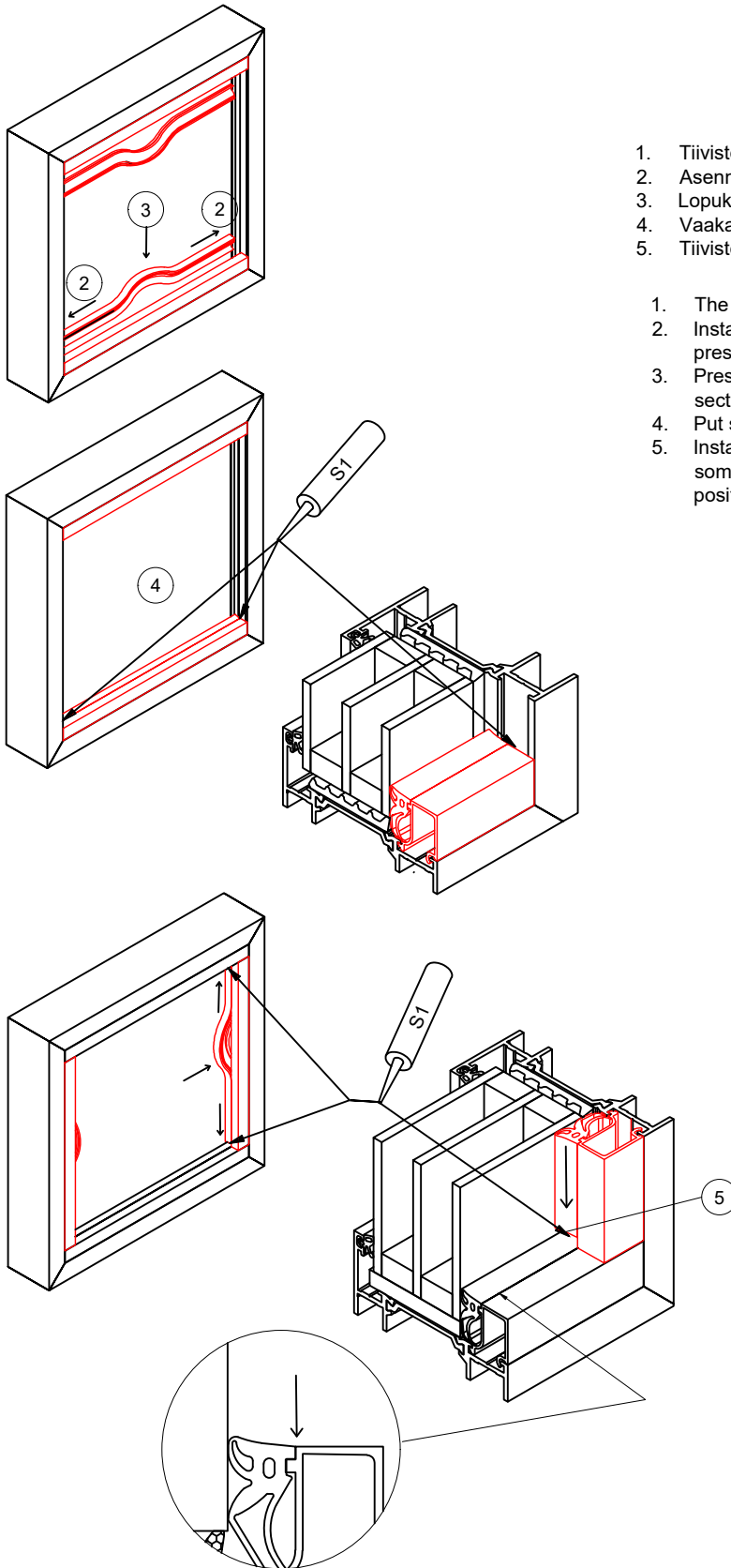


Lasituskiilat ja lasi asennetaan standardin EN 12488 mukaisesti
The glazing must follow the instructions of standard EN 12488



Kyntetilan tiiviste työnnetään paikoilleen lasin asennuksen jälkeen.
Tiiviste katkaistaan lasituskiilojen kohdalta
Glass rebate sealing install after glass installation.

SISÄPUOLEN LASITUSTIIVISTEEN ASENNUS INSTALLATION OF INSIDE GLAZING GASKETS

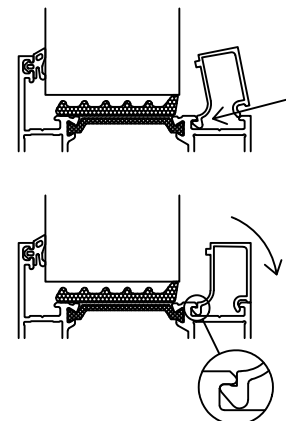


1. Tiiviste katkaistaan n. +5 mm ylipitkäksi metriä kohden.
2. Asenna vaakatiivisteiden päät kiinni profiiliin.
3. Lopuksi paina keskiosa paikoilleen.
4. Vaakalistojen päät tiivistetään massalla.
5. Tiivisteiden nurkat massataan.

1. The sealing cut ca. 5 mm/ m too long
2. Install horizontal glazing beads and install the gasket by pressing it in position at corners (leave middle part uninstalled)
3. Press the whole gasket in position by starting to install middle section and then push the gasket with pressure to corners
4. Put some glue in the gap at edges if needed
5. Install the vertical glazing beads and install the gasket (with some glue at each end if necessary) by first pressing it in position at corners and then press from middle against corners

Sisäpuolen lasitustiiviste valitaan lasinpaksuudelle sopivaksi.

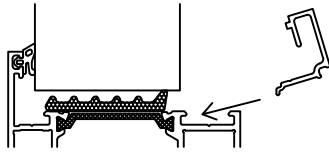
The sealing strip is checked to match the thickness of the glass



HUOM! Tiivisteiden ja listan tulee olla samalla tasolla.

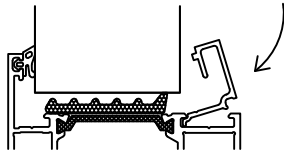
The gasket and the glazing profile must be at same level/flush.

SISÄPUOLEN LASITUSTIIVISTEEN ASENNUS INSTALLATION OF INSIDE GLAZING GASKETS (22629)



1. Asenna lasi. Lisää sitten liimaa.

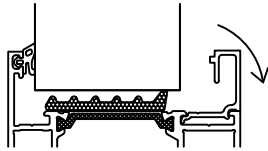
1. After installing the glass, apply a portion of glue in each corner and along the bottom groove.



2. Lisää vaakasuuntaiset lasilistat ja purista liima kulmista ulos (varmista, että se peittää room-lasiliistan välillä).

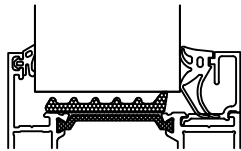
1. Asenna lasi. Lisää sitten liimaa.

3. Mount vertical glazing **beads** to lock the horizontals.



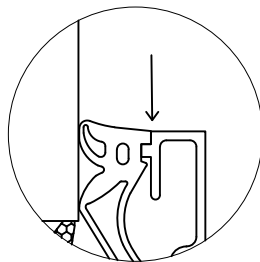
1. Asenna lasi. Lisää sitten liimaa.

4. Add vertical glazing **gaskets** according to information on page 10.3.3.

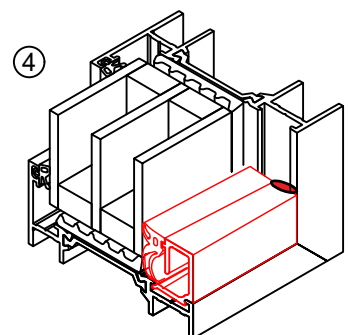
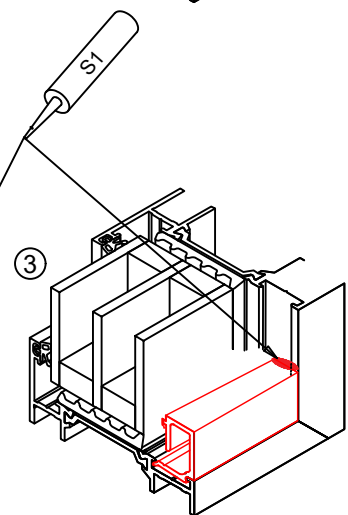
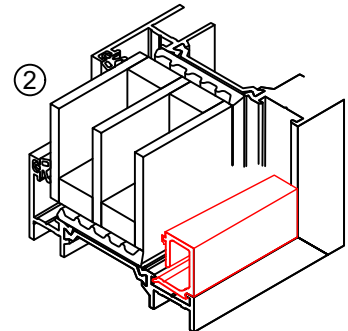
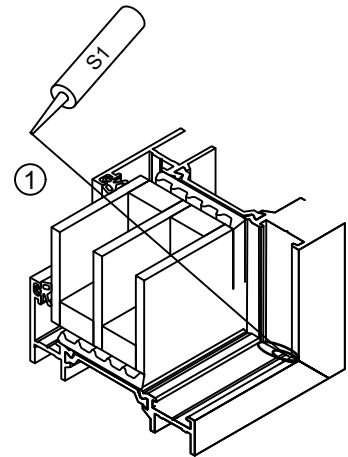
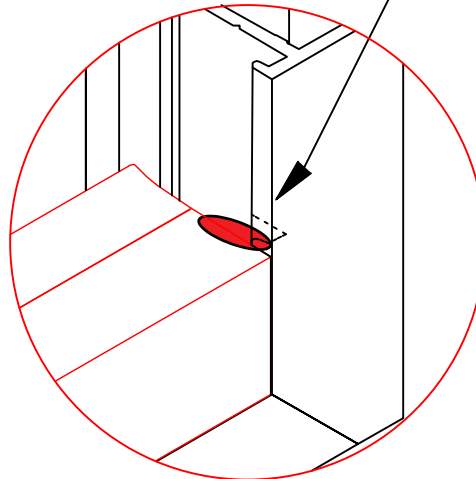


1. Asenna lasi. Lisää sitten liimaa.

5. Add the vertical glazing **gaskets** according to information on page 10.3.3.

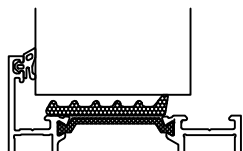


HUOM! Tiivisteen ja listan tulee olla samalla tasolla.
Note! The gasket and the glazing profil must be at same level/flush.



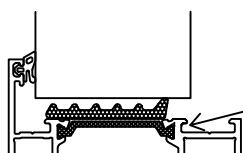
SISÄPUOLEN LASITUSTIIVISTEEN ASENNUS (22628) INSTALLATION OF INSIDE GLAZING GASKETS (22628)

1. Asenna lasi. Lisää sitten liimaa.



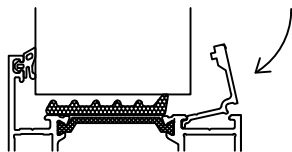
1. After installing the glass, apply a portion of glue in each corner and along the bottom groove.

2. Lisää vaakasuuntaiset lasilistat ja purista liima kulmista ulos (varmista, että se peittää raon lasilistan ja raon välillä)



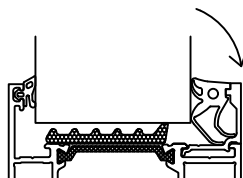
2. Add the horizontal glazing **beads** and press out the glue in the corners (ensure the bead covers the gap between the glazing bead and the profile).

1. Asenna lasi. Lisää sitten liimaa.



3. Mount vertical glazing **beads** to lock the horizontals.

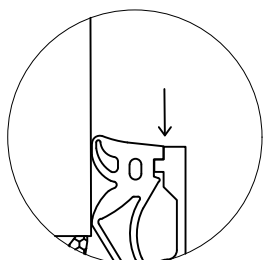
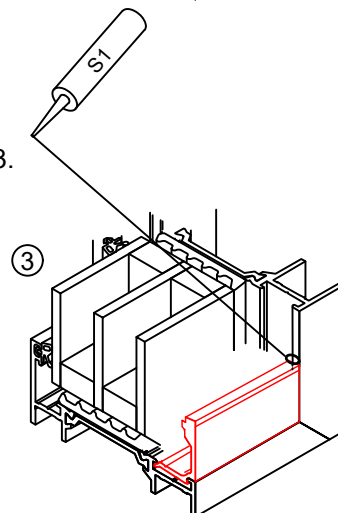
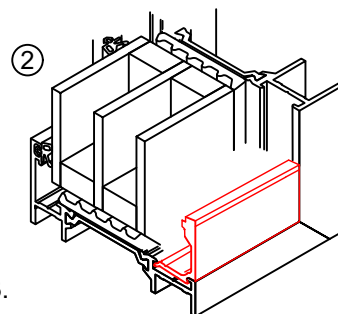
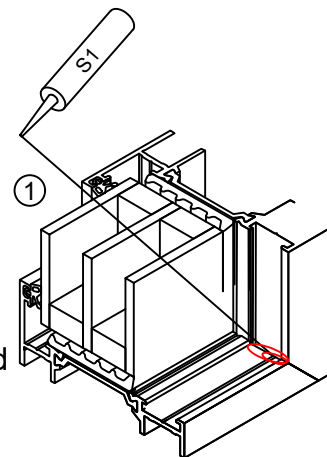
1. Asenna lasi. Lisää sitten liimaa.



4. Add vertical glazing **gaskets** according to information on page 10.3.3.

1. Asenna lasi. Lisää sitten liimaa.

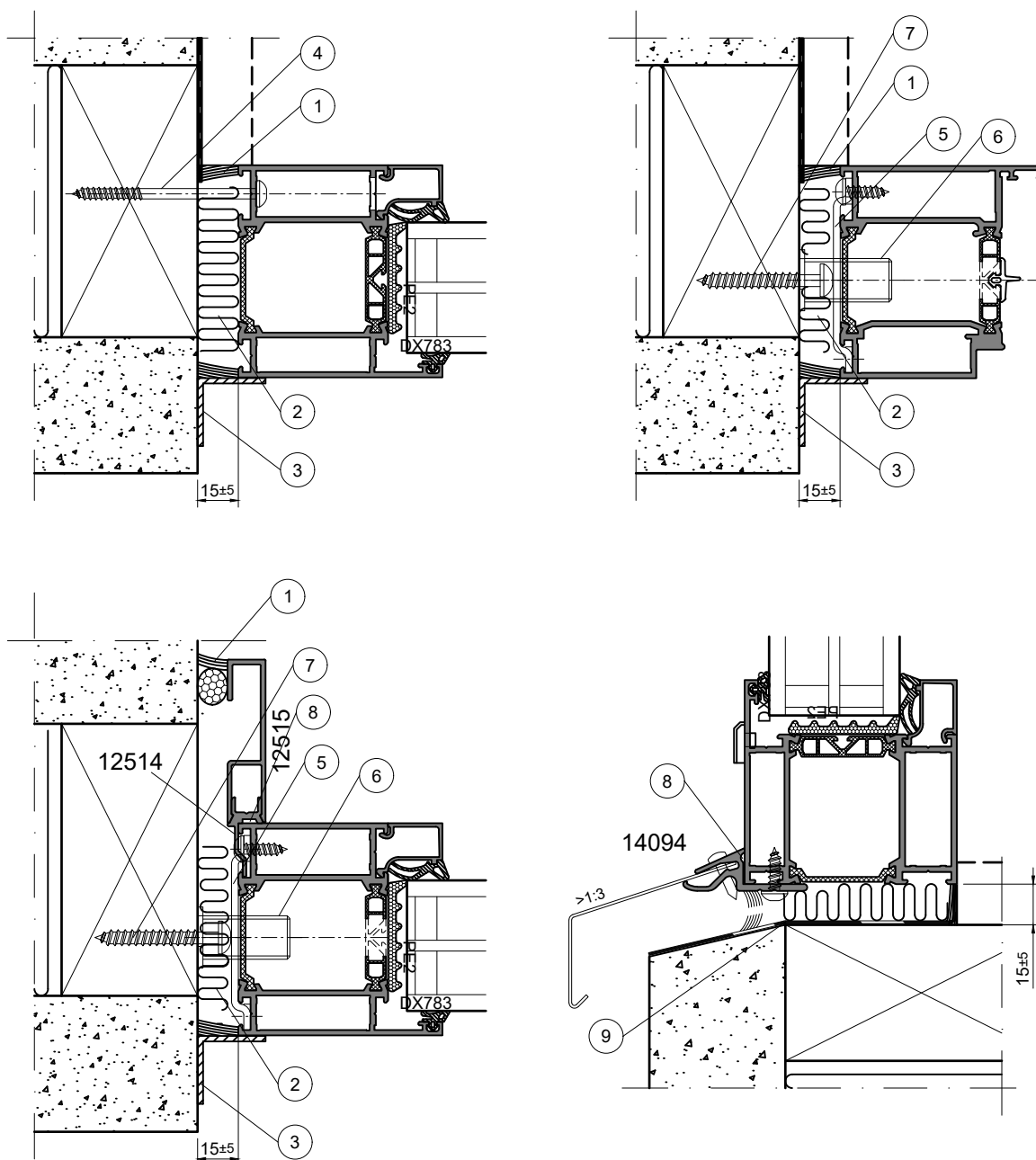
5. Add the vertical glazing **gaskets** according to information on page 10.3.3.



HUOM! Tiivisteen ja listan tulee olla samalla tasolla.

Note! The gasket and the glazing profil must be at same level/flush.

LIITTÄMINEN RAKENNUSRUNKOON, ESIMERKKEJÄ MOUNTING TO BUILDING FRAME, EXAMPLES

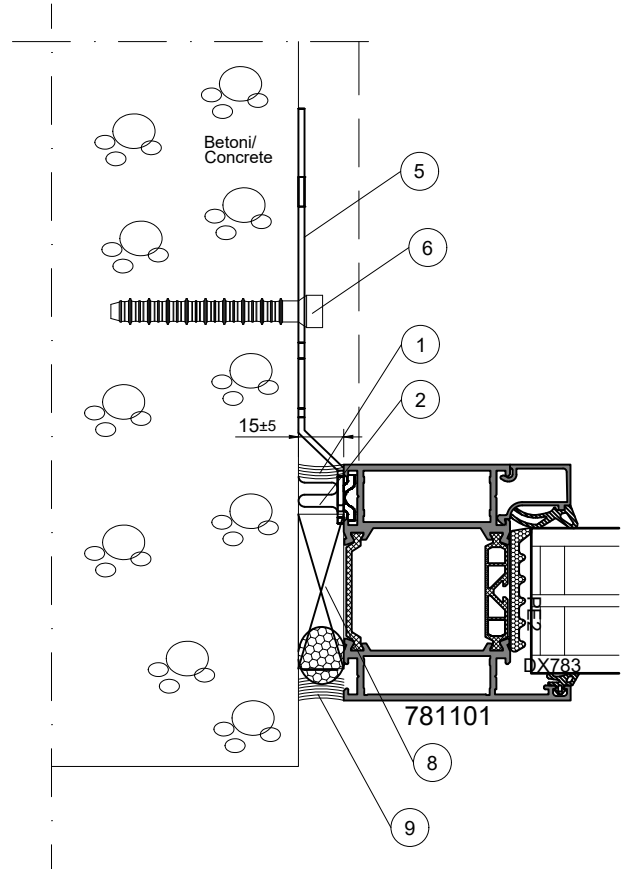
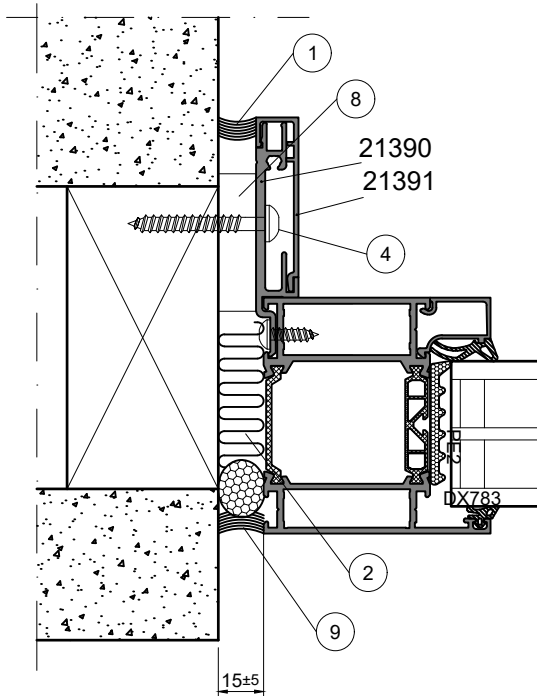


HUOM! Nämä ovat esimerkkejä. Kohteen rakennesuunnittelijan on hyväksyttävä liitosdetaljit kohteen vaatimusten mukaan.

NOTE! These are examples. The site designer must approve the connection details in accordance with the site's requirements.

1 Ilma- ja höyrytiivistys Air and diffision seal	4 Kiinnitysruuvi Fixing screw	7 Adjufix kiinnitysruuvi Adjufix fixing screw
2 Eriste Insulation	5 Karmin kiinnityslevy 78/40 Fixing plate	8 Tiivistysmassa Sealing compound
3 Peitelista Cover strip	6 Kiinnityshylsy Frame screw	9 Vesieristys Waterproofing

LIITTÄMINEN RAKENNUSRUNKOON, ESIMERKKEJÄ MOUNTING TO BUILDING FRAME, EXAMPLES



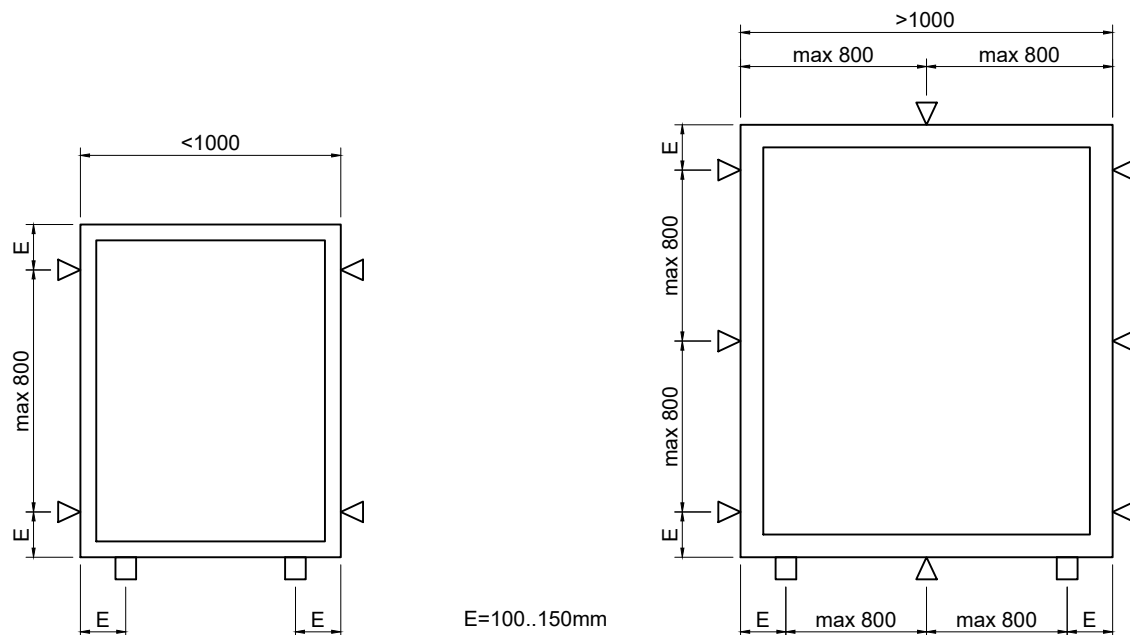
HUOM! Nämä ovat esimerkkejä. Kohteen rakennesuunnittelijan on hyväksyttävä liitosdetaljit kohteen vaatimusten mukaan.

NOTE! These are examples. The site designer must approve the connection details in accordance with the site's requirements.

1 Ilma- ja höyrytiivistys Air and diffision seal	4 Kiinnitysruuvi Fixing screw	8 Asennuskiila Setting block WÜRTH 0479555002
2 Eriste Insulation	5 Kääntöankkuri Rotary anchor	
3 Peitelista Cover strip	6 Betoniruuvi Screw for concrete 7.5x70	9 Sääsauma Weather sealing

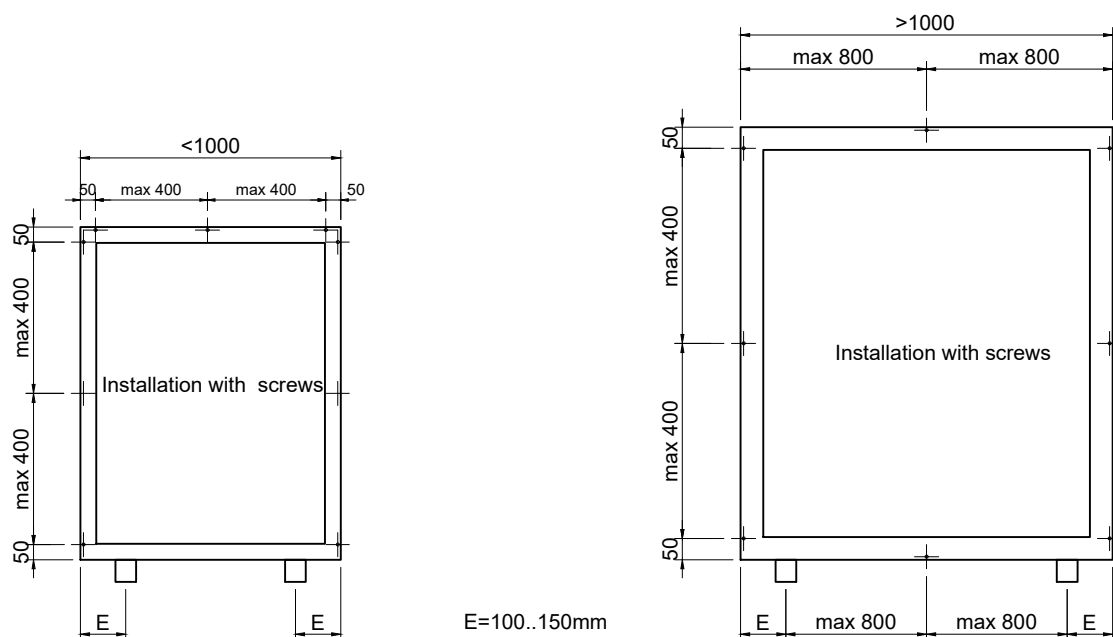
LIITTÄMINEN RAKENNUSRUNKOON, KIINNITYSKOHDAT

MOUNTING TO BUILDING FRAME, FIXING POINT



△ Kiinnityskohta
Installation position

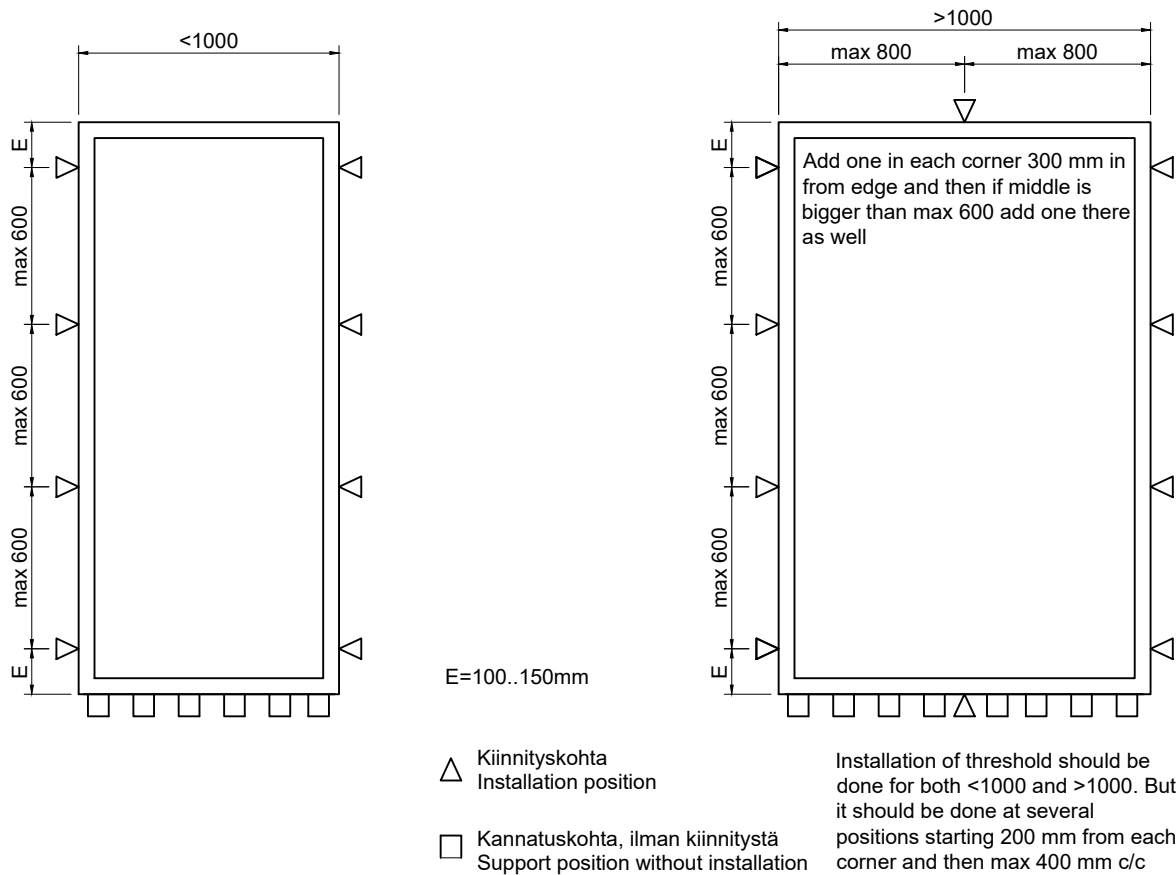
□ Kannatuskohta, ilman kiinnitystä
Support position without installation



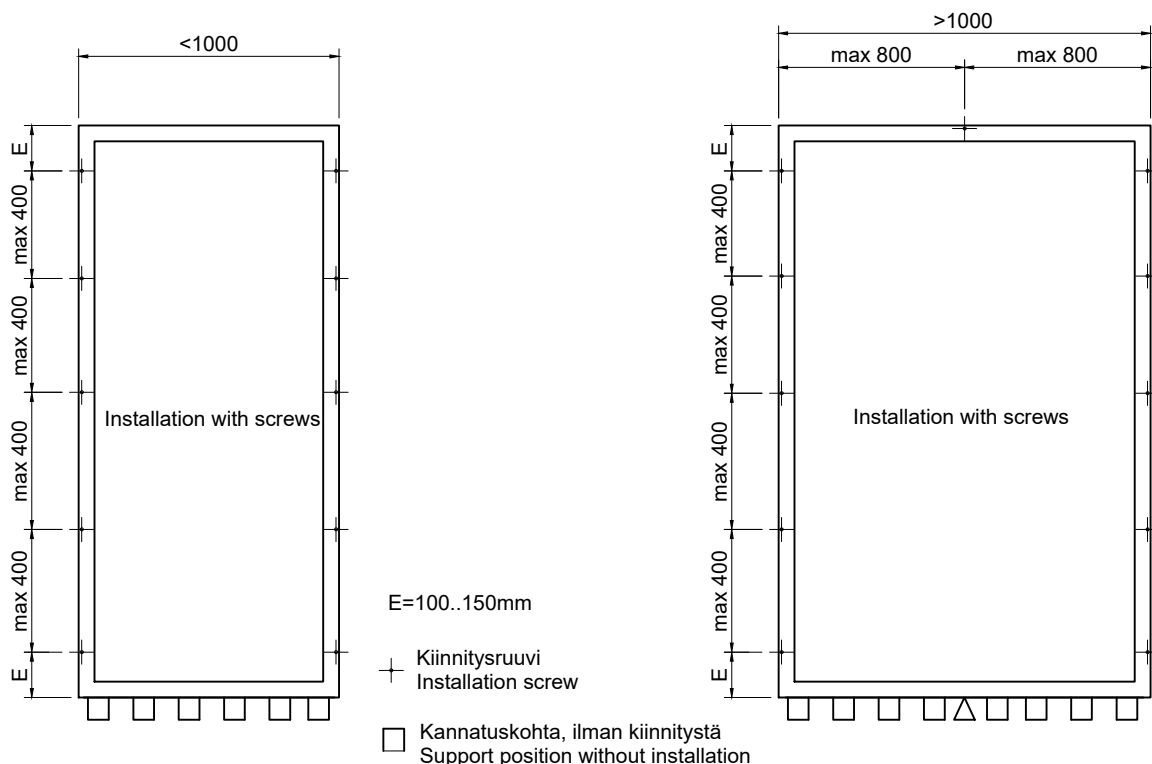
+ Kiinnitysruuvi
Installation screw

□ Kannatuskohta, ilman kiinnitystä
Support position without installation

LIITTÄMINEN RAKENNUSRUNKOON, KIINNITYSKOHDAT MOUNTING TO BUILDING FRAME, FIXING POINT

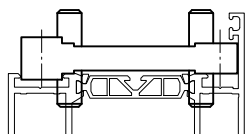
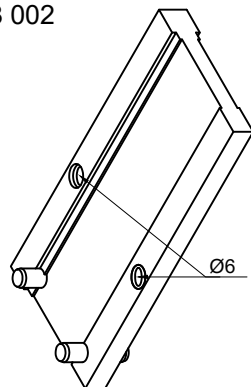


Support positions should be as many as needed to stabilize threshold.

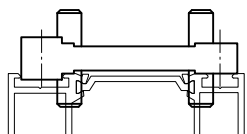


PORAUSJIGIT DRILLING JIGS

JIIRILIITOS
MITRE JOINT
LK78 002

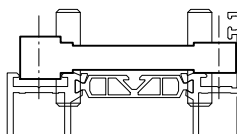
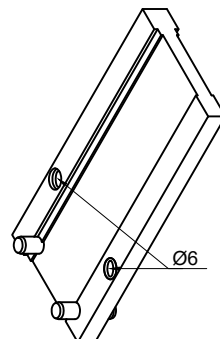


781101 781206 781404
781103 781401 781530
781130 781402 781532
781205 781403
781107 782101 782206
781108 782102 782207

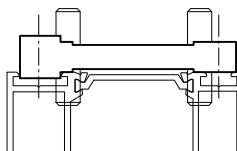


781002 780131 781403
781100 781206 781531
781101 781401

T-LIITOS
T JOINT
LK78 005

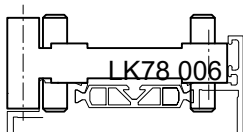
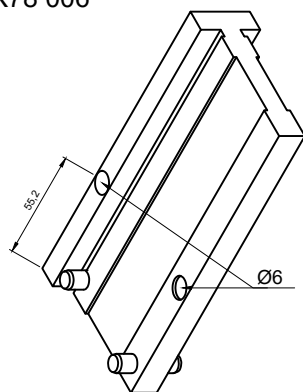


781107 781006 781205 781402 782102
781108 781101 781206 781403 782206
782101 781103 781401 781404 782207



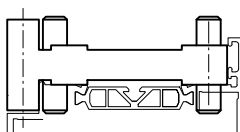
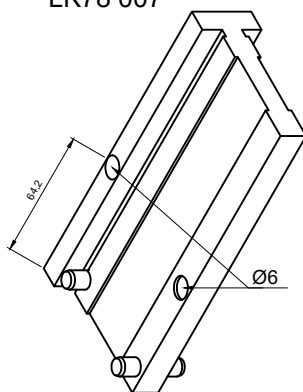
781001 781101 781401
781002 781206 781403
781100

JIIRILIITOS
MITRE JOINT
LK78 006



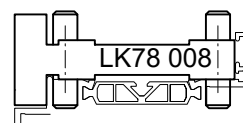
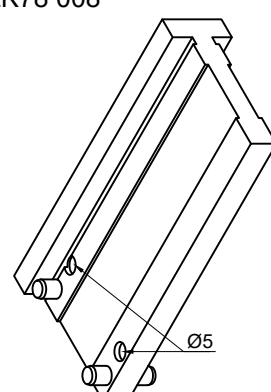
781530 781630
781532 781632

JIIRILIITOS
MITRE JOINT
LK78 007



781530
781532
781630
781632

KYNNYSLIITOS
THRESHOLD JOINT
LK78 008



781530 781232
781531 781231
781532 781536

NOTE! Miter joint 78JL530-532 and
78JL630-632

HUOM! Kääntöovilehden jiiriliitos 78JL530-532 ja 78JL630-632

TEKNISIÄ TIETOJA

Profiilit

- Alumiiniseos yleensä EN-AW 6063 T5
 - $R_{p0,2}(\text{min}) = 130 \text{ N/mm}^2$
 - $R_m(\text{min}) = 175 \text{ N/mm}^2$
 - $E = 70000 \text{ N/mm}^2$
- Alumiinirakenteiden suunnittelussa on huomioitava lämpötilan muutoksista aiheutuvat siirtymät
- Alumiinin lämpölaajenemiskerroin on $24 \times 10^{-6}/\text{K}$
- 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 kestävänn 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.

Tiivistheet

Materiaali: EPDM-kumi

Väri: musta

TECHNICAL INFORMATION

Profiles

- Aluminium alloy usually EN-AW 6063 T5
 - $R_{p0,2}(\text{min}) = 130 \text{ N/mm}^2$
 - $R_m(\text{min}) = 175 \text{ N/mm}^2$
 - $E = 70000 \text{ N/mm}^2$
- Thermal transitions caused by changes in temperature must be taken into account in the design
- Thermal expansion coefficient of aluminium is $24 \times 10^{-6}/\text{K}$
- 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

Purso Oy
Rakennusjärjestelmät
Building System Unit
Alumiinitie 1, FI-37200 Siuro, Finland

Tel. +358 3 3404 111, fax +358 3 3404 500

purso@purso.fi
www.pursobuilding.fi

Pidätämme oikeuden muutoksiin ilman erillistä ilmoitusta.
All rights reserved without prior notice.

Copyright © Purso Oy

