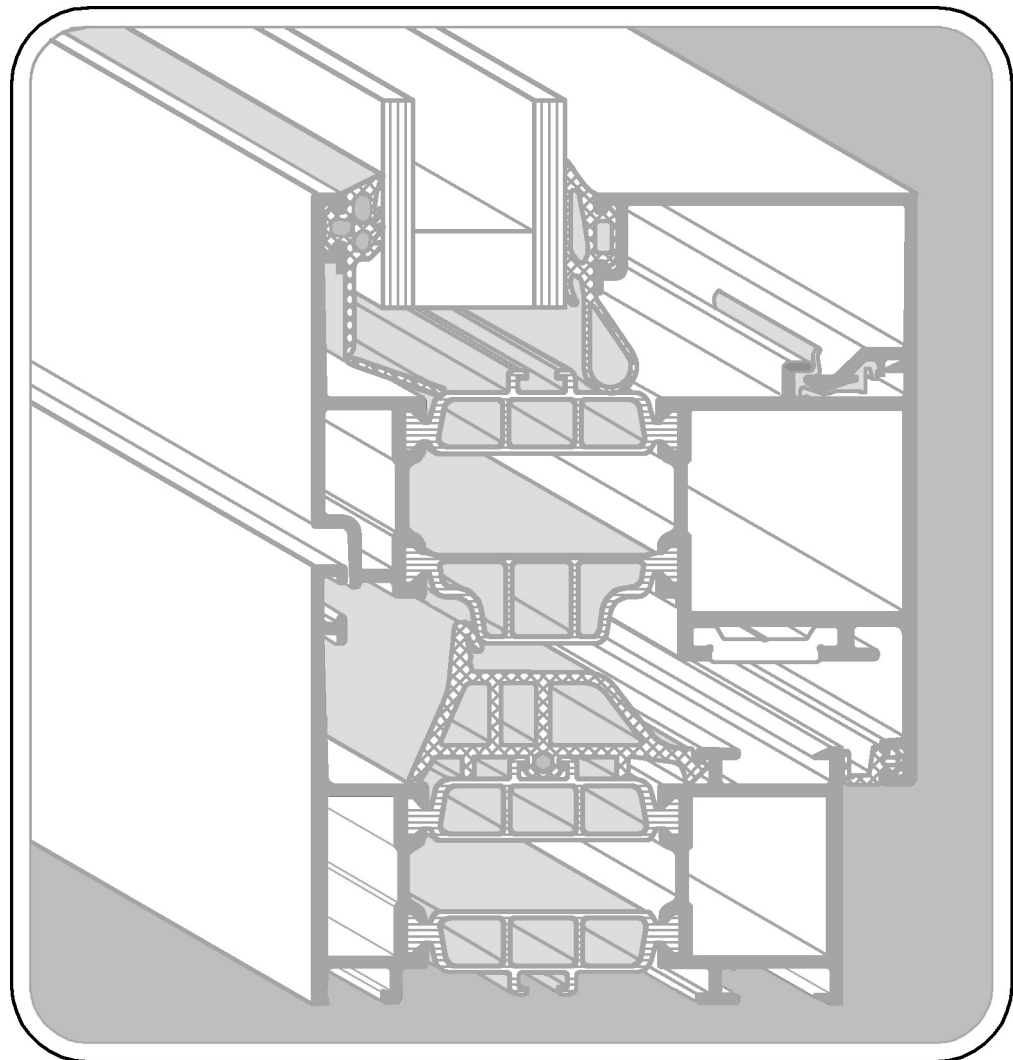


Profile system SYKON

Sykotherm
Series 70



The catalogue is subdivided, in order to be simply to use, in product groups. Each group contains profile, accessories and furnitures. The mentioned system profiles are extruded according DIN 17615 and the alloy is Al Mg Si 0,5. The profiles can be provided in fixed lengths or by request in special length. All profiles, fittings and accessories have a code number. When ordering you must take care the profile' s length, colours and accessories. Aluminium profiles are supplied mill-finished, anodized or coloured.

The joints are described with two letter. Specifically:

NE = Pin Corner Joint
PE = Press Corner Joint
TV = T-Joint
EW = Corner Joint
VE = Adjustable Corner Joint

All manuals are written, based on constructor's convenience. For any logistical support please write to R&D department.

PROFILCO
53th Km National Road Athens-Lamia
Inofita-Viotia

Phone: 0030 22620 31753, 31754
Telefax: 0030 22620 30953

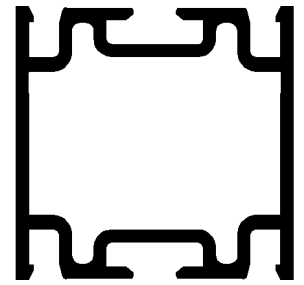
Internet: www.profilco.gr
E-Mail: info@profilco.gr

SYKON GmbH & Co. KG
Industriestraße 10
32278 Kirchlengern

Phone: 0 52 23 / 98 18 - 0
Telefax: 0 52 23 / 98 18 - 88

Internet: www.sykon.de
E-Mail: info@sykon.de





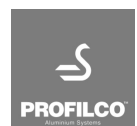
Basic System

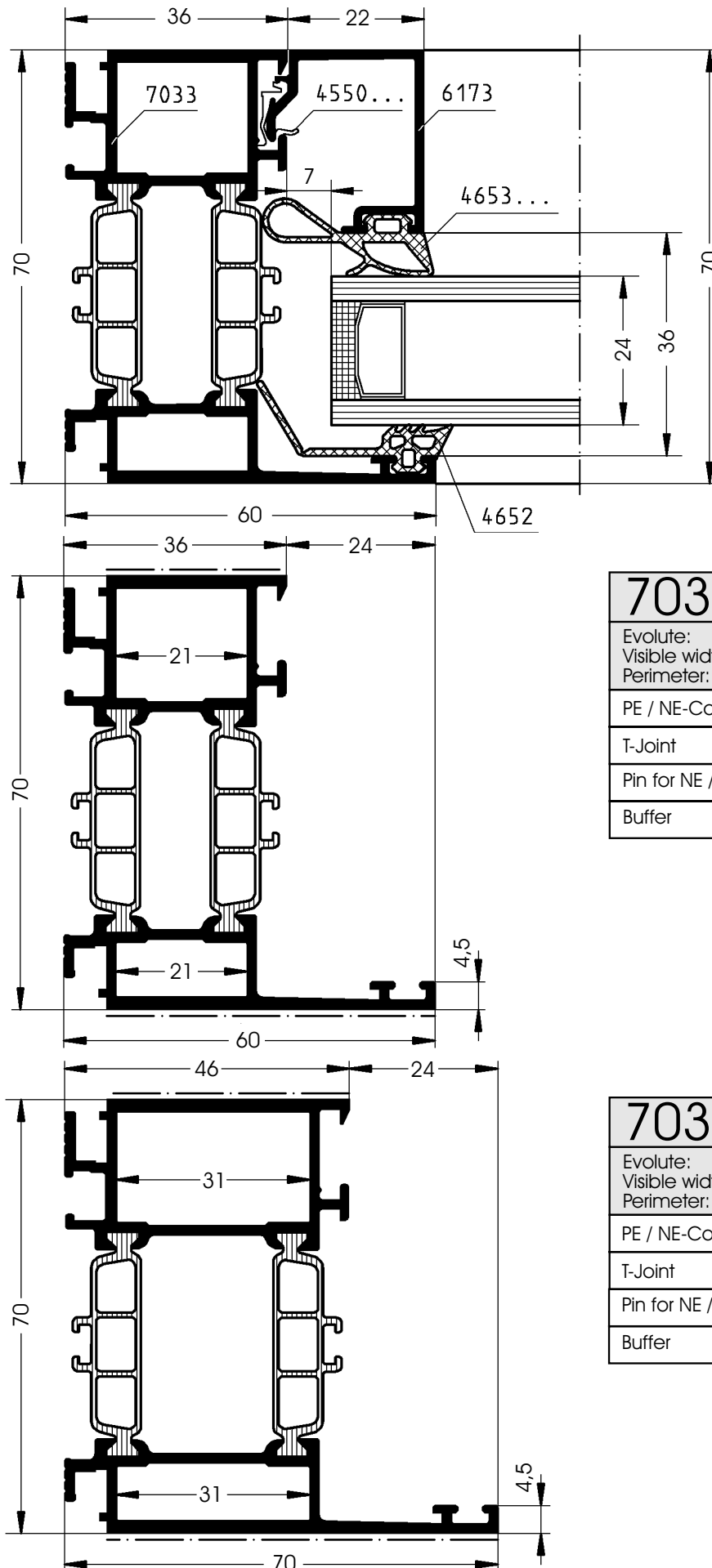
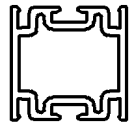
Profile system
Frames, Mullion profiles
Reinforced profiles
Joining profiles
Glazing beads
Profile review

Sykotherm
Series 70



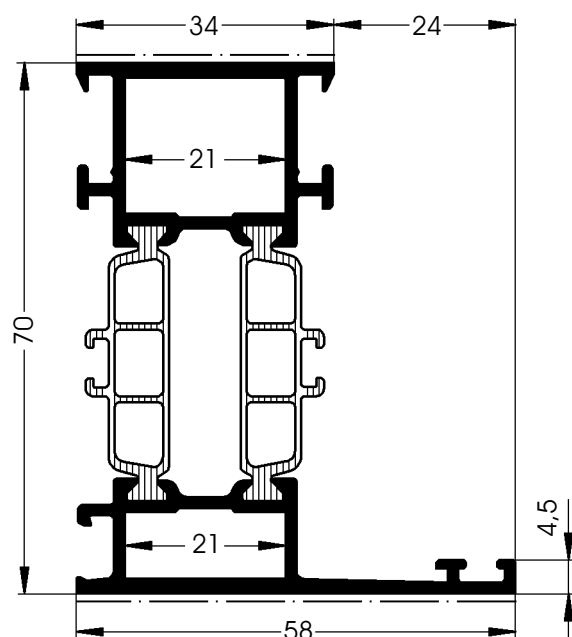
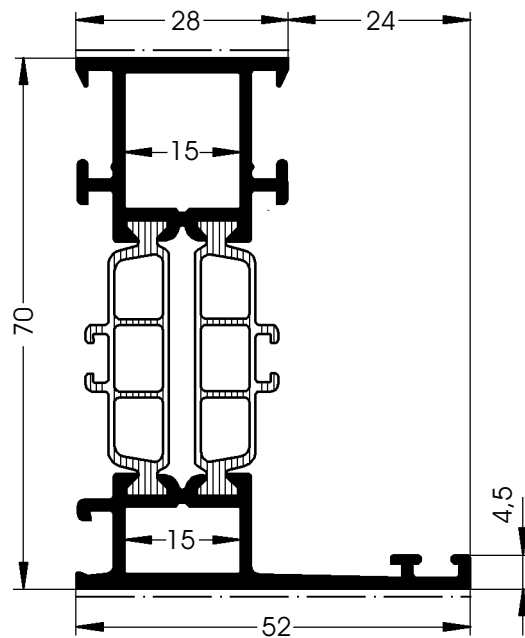
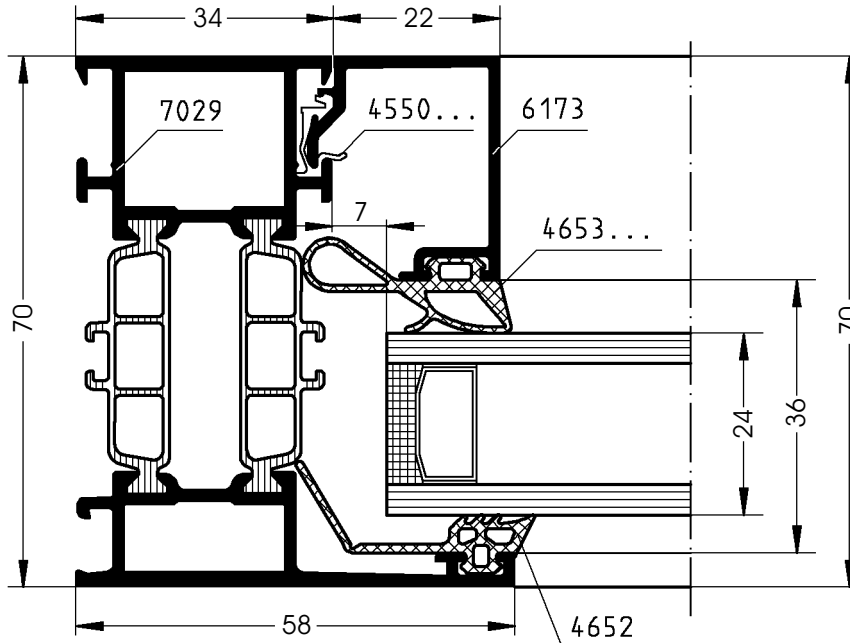
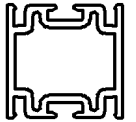
by





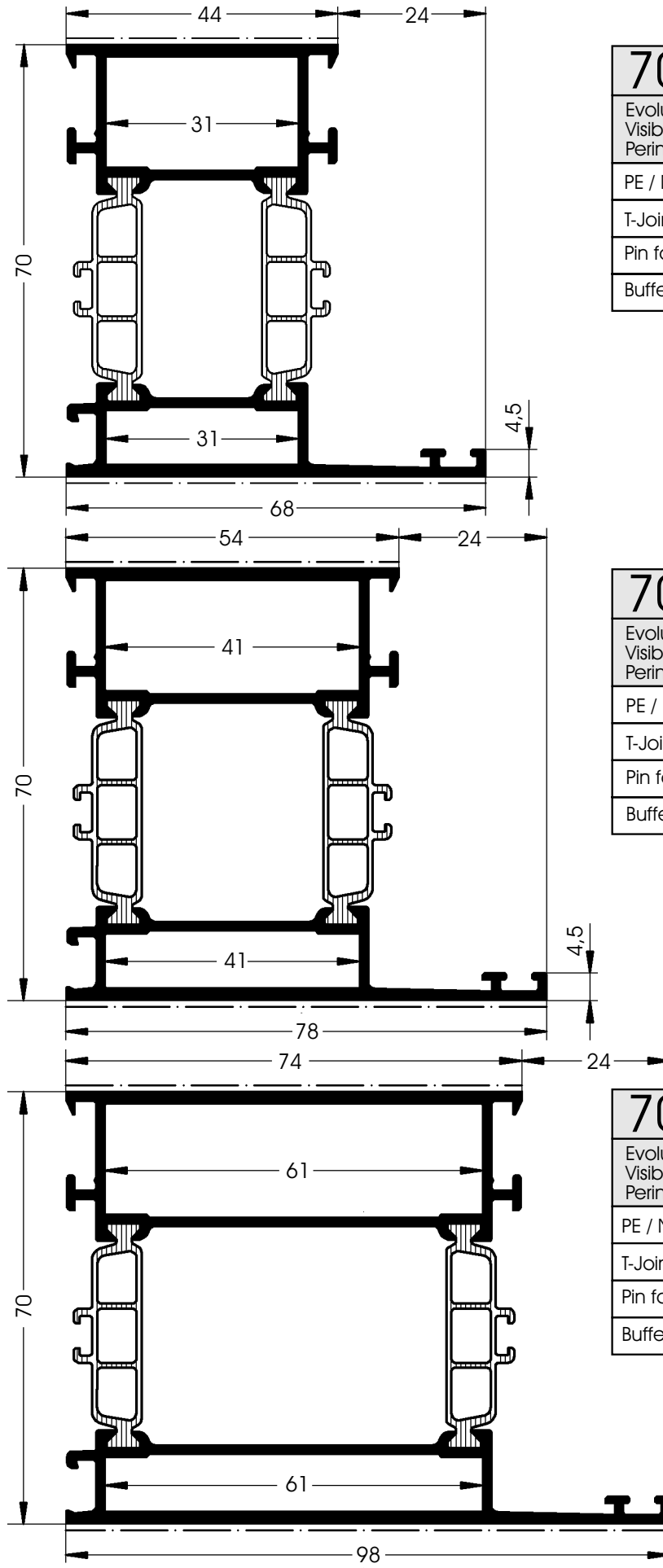
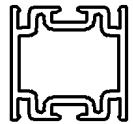
7033	Inside Profile	Outside Profile
Evolute: (mm)		
Visible width: 82	29	53
Perimeter: 315	194	199
PE / NE-Corner joint	7503	7504
T-Joint	7527	7528
Pin for NE / T-Joint:	5500	5500
Buffer	4629 28	

7030	Inside Profile	Outside Profile
Evolute: (mm)		
Visible width: 102	39	63
Perimeter: 335	215	219
PE / NE-Corner joint	7505	7506
T-Joint	7529	7530
Pin for NE / T-Joint:	5500	5500
Buffer	4629 38	



7028	Inside Profile	Outside Profile
Evolute: (mm)		
Visible width: 80	28	52
Perimeter: 279	164	180
PE / NE-Corner joint	7501	7502
T-Joint	7525	7526
Pin for NE / T-Joint:	5500	5500
Buffer	4629 19	

7029	Inside Profile	Outside Profile
Evolute: (mm)		
Visible width: 92	34	58
Perimeter: 294	177	192
PE / NE-Corner joint	7503	7504
T-Joint	7527	7528
Pin for NE / T-Joint:	5500	5500
Buffer	4629 25	

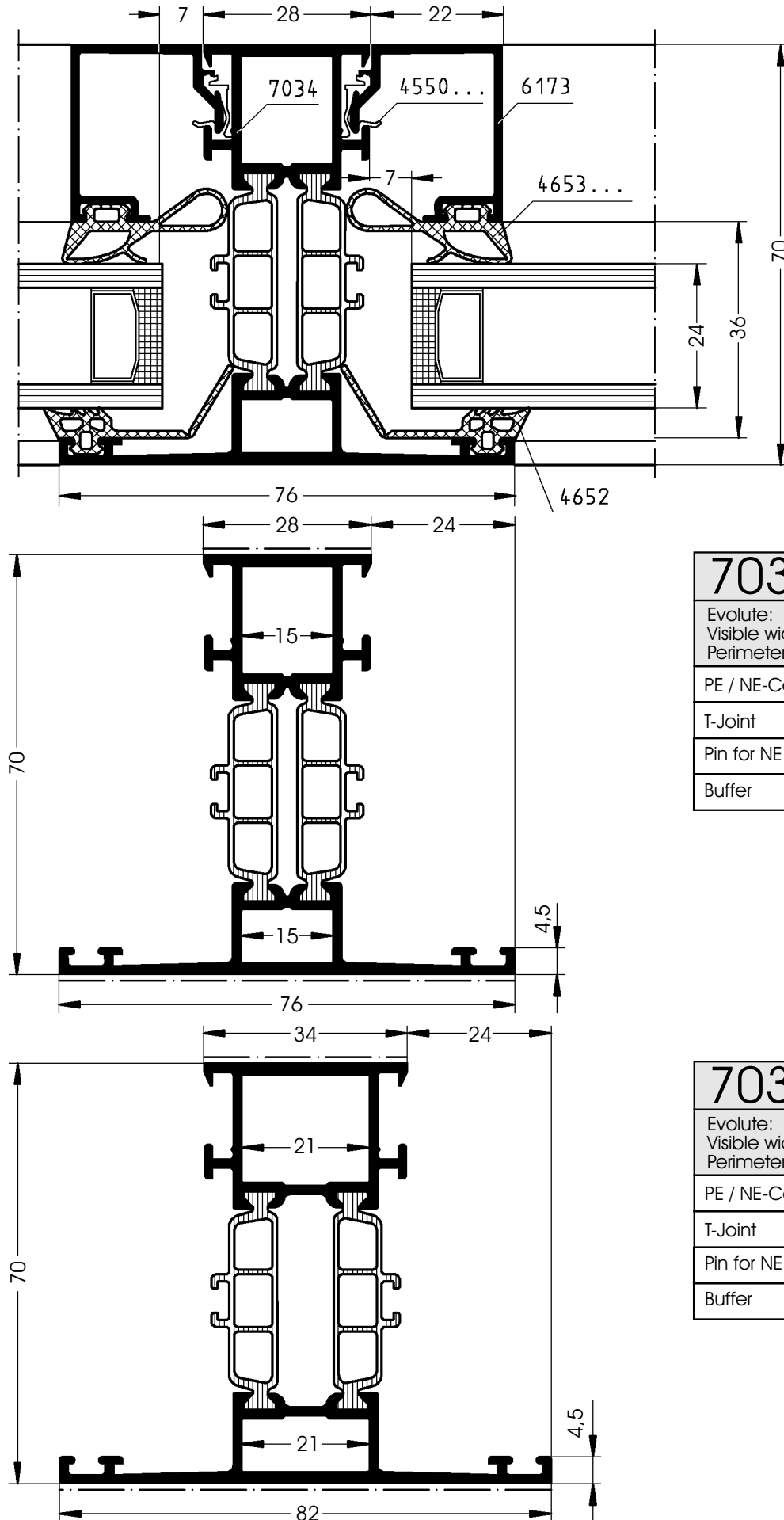
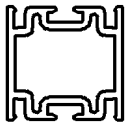


7069	Inside Profile	Outside Profile
Evolute: (mm)		
Visible width: 112	44	68
Perimeter: 314	197	212
PE / NE-Corner joint	7505	7506
T-Joint	7529	7530
Pin for NE / T-Joint:	5500	5500
Buffer	4629 35	

7070	Inside Profile	Outside Profile
Evolute: (mm)		
Visible width: 132	54	78
Perimeter: 334	217	232
PE / NE-Corner joint	7507	7508
T-Joint	7531	7532
Pin for NE / T-Joint:	5500	5500
Buffer	4629 45	

7071	Inside Profile	Outside Profile
Evolute: (mm)		
Visible width: 172	74	98
Perimeter: 374	257	272
PE / NE-Corner joint	7509	7510
T-Joint	7533	7534
Pin for NE / T-Joint:	5500	5500
Buffer	4629 65	

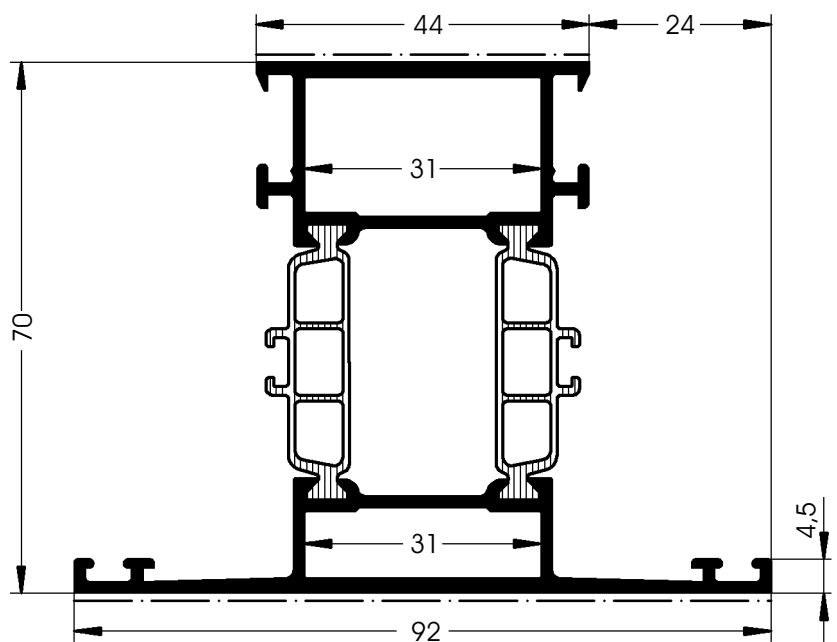
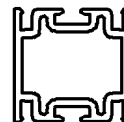
Hint:
Each of joints 7509/7510 consist of two connection pieces.



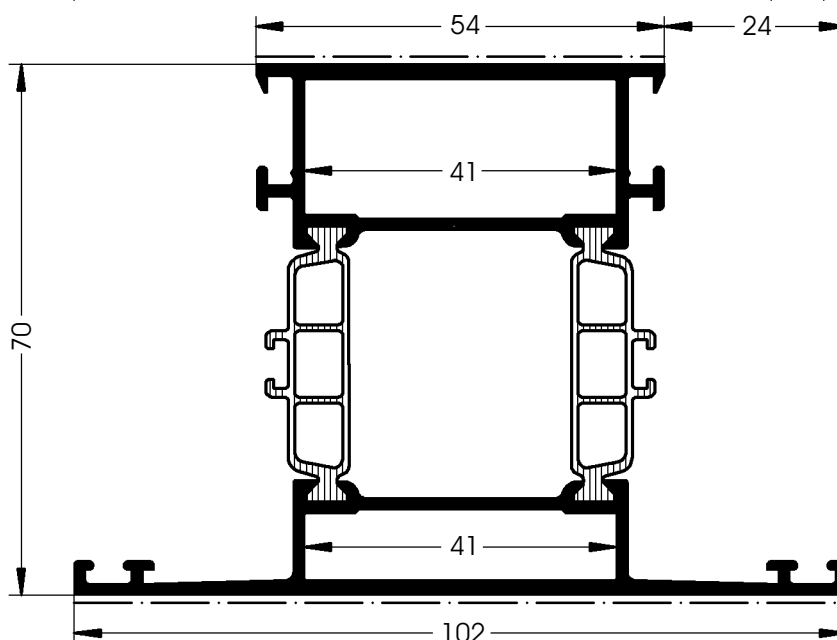
7034	Inside Profile	Outside Profile
Evolute: (mm)		
Visible width: 104	28	76
Perimeter: 331	164	132
PE / NE-Corner joint	7501	7502
T-Joint	7525	7526
Pin for NE / T-Joint:	5500	5500
Buffer	4629 19	

7031	Inside Profile	Outside Profile
Evolute: (mm)		
Visible width: 116	34	82
Perimeter: 346	177	244
PE / NE-Corner joint	7503	7504
T-Joint	7527	7528
Pin for NE / T-Joint:	5500	5500
Buffer	4629 25	

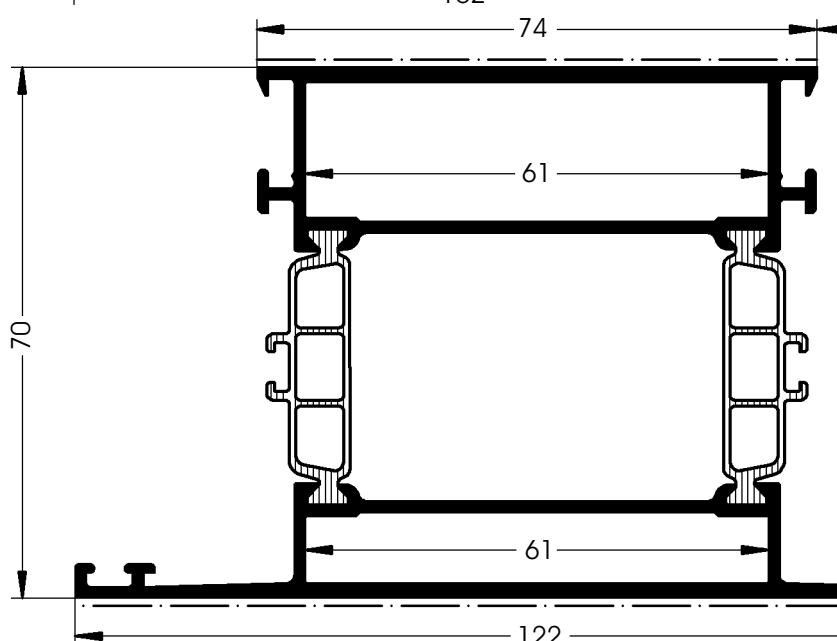
040917



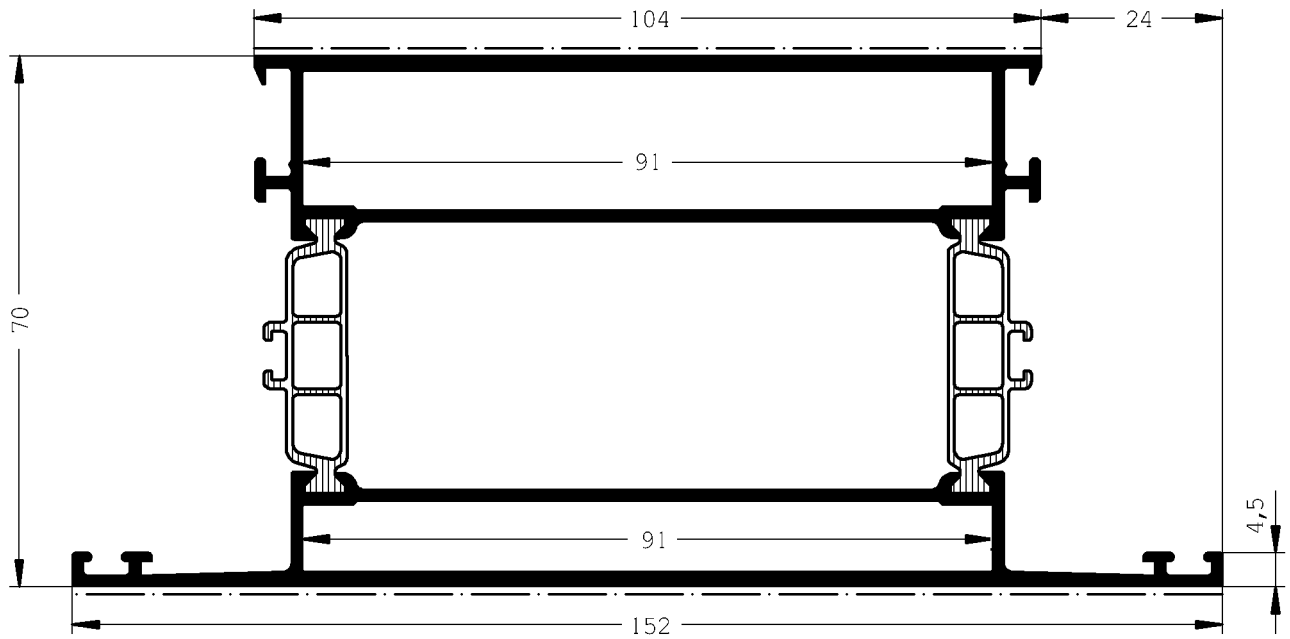
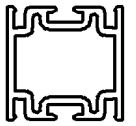
7036	Inside Profile	Outside Profile
Evolute: (mm)		
Visible width: 136	44	92
Perimeter: 366	197	264
PE / NE-Corner joint	7505	7506
T-Joint	7529	7530
Pin for NE / T-Joint:	5500	5500
Buffer	4629 35	



7037	Inside Profile	Outside Profile
Evolute: (mm)		
Visible width: 156	54	102
Perimeter: 386	217	284
PE / NE-Corner joint	7507	7508
T-Joint	7531	7532
Pin for NE / T-Joint:	5500	5500
Buffer	4629 45	

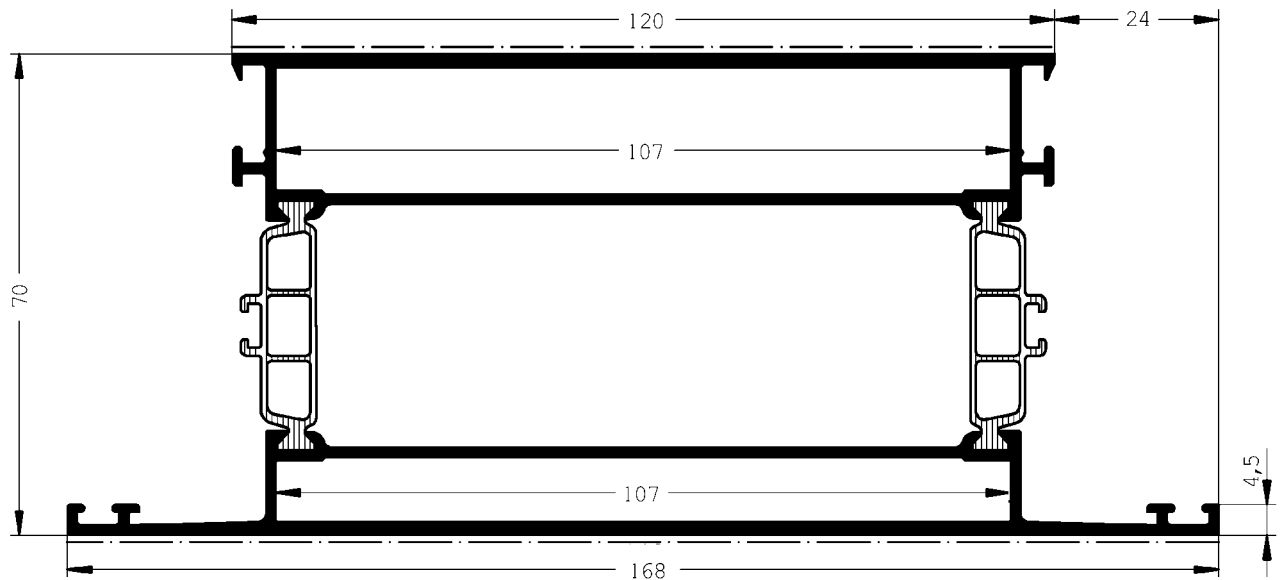


7038	Inside Profile	Outside Profile
Evolute: (mm)		
Visible width: 196	74	122
Perimeter: 426	257	324
PE / NE-Corner joint	7509	7510
T-Joint	7533	7534
Pin for NE / T-Joint:	5500	5500
Buffer	4629 65	

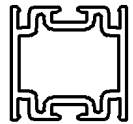


7039	Inside Profile	Outside Profile
Evolute: (mm)		
Visible width: 256	104	152
Perimeter: 484	315	384
T-Joint	7535	7536
Pin for NE / T-Joint:	5500	5500
Buffer	4629 95	

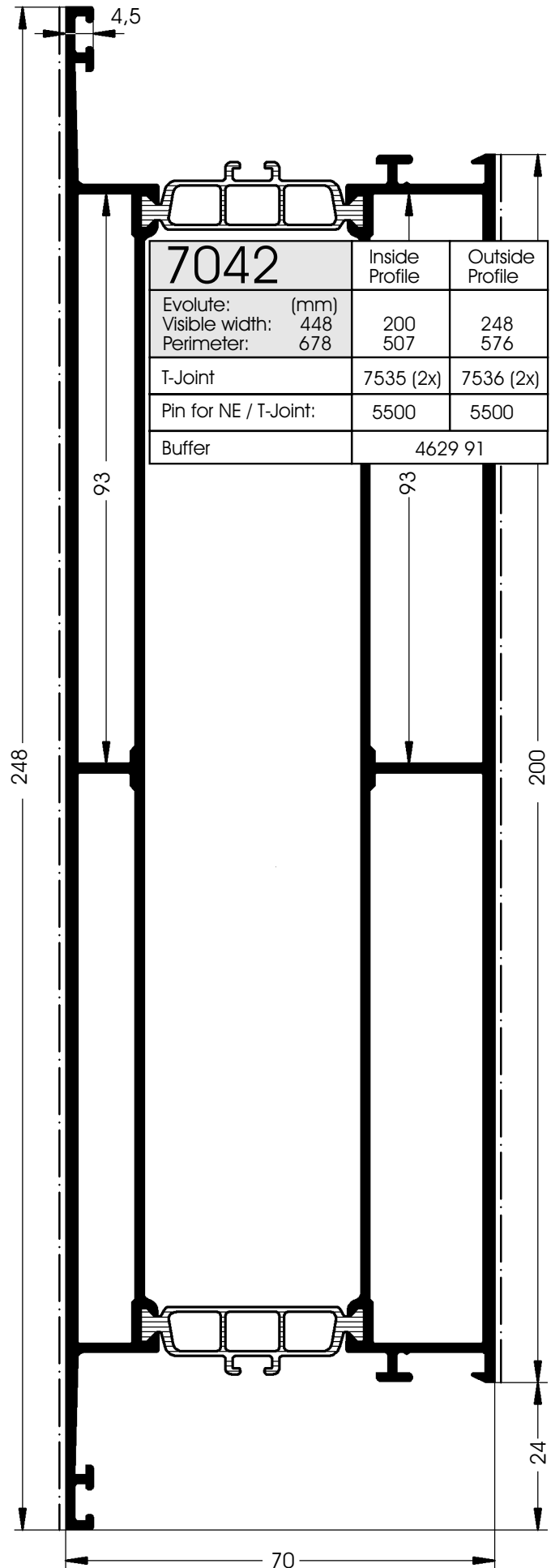
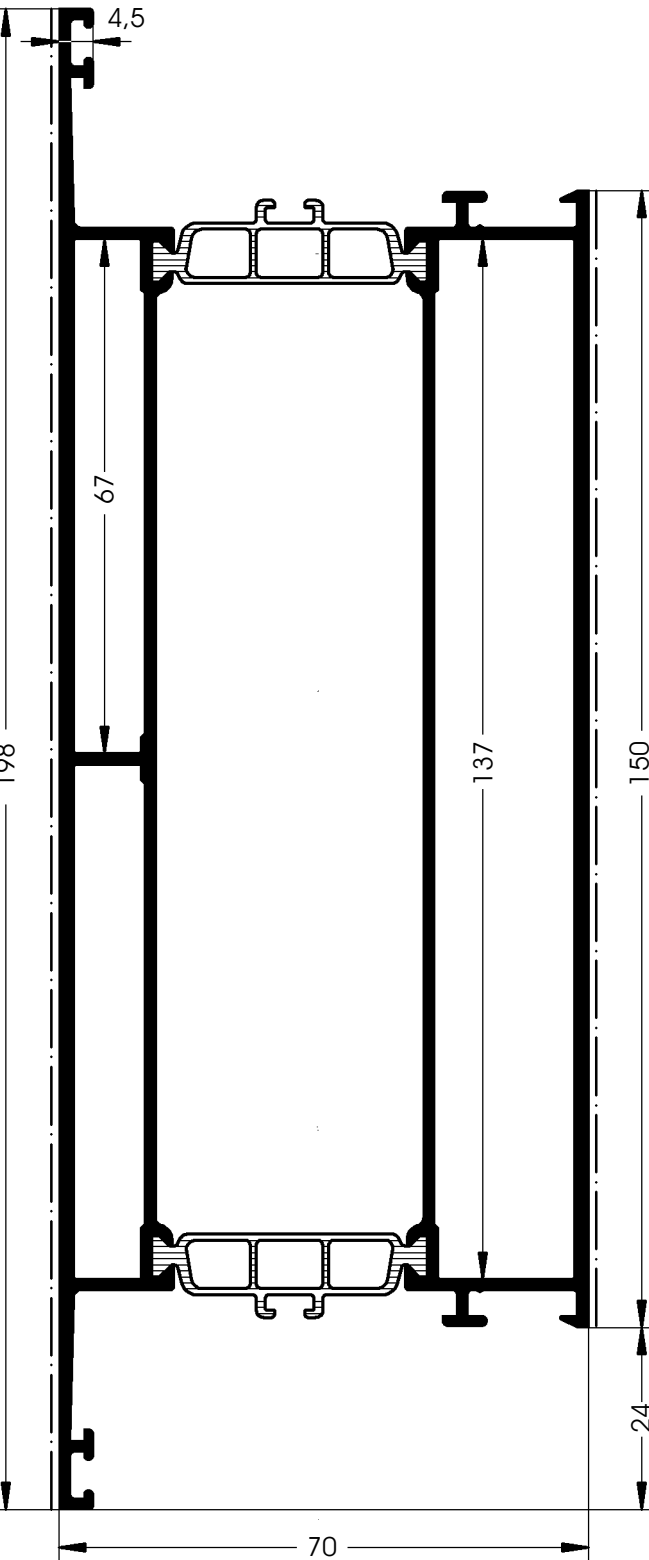
7040	Inside Profile	Outside Profile
Evolute: (mm)		
Visible width: 288	120	168
Perimeter: 516	347	416
T-Joint	7537	7538
Pin for NE / T-Joint:	5500	5500
Buffer	4629 11	



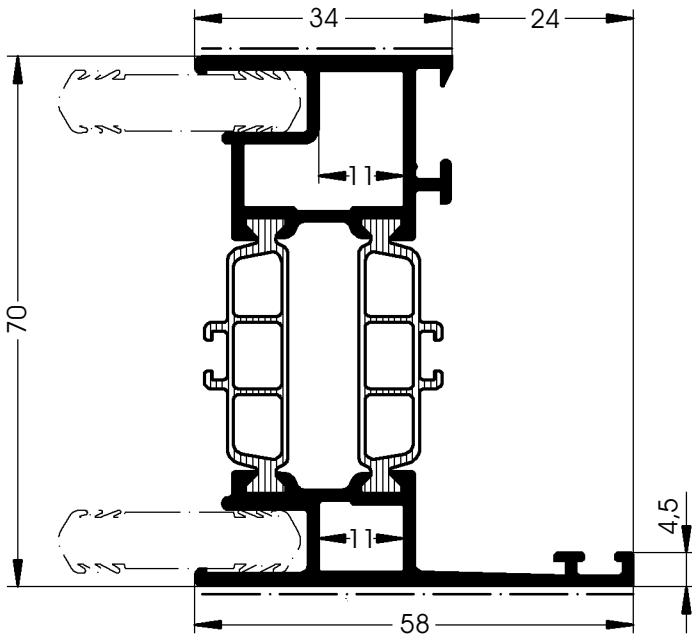
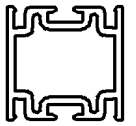
040917



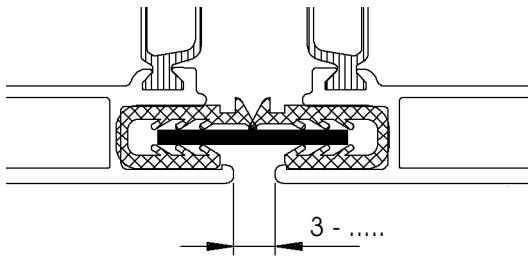
7041	Inside Profile	Outside Profile
Evolute: (mm)		
Visible width: 348	150	198
Perimeter: 576	407	476
T-Joint	7539	7540 (2x)
Pin for NE / T-Joint:	5500	5500
Buffer	4629 41	



7042	Inside Profile	Outside Profile
Evolute: (mm)		
Visible width: 448	200	248
Perimeter: 678	507	576
T-Joint	7535 (2x)	7536 (2x)
Pin for NE / T-Joint:	5500	5500
Buffer	4629 91	

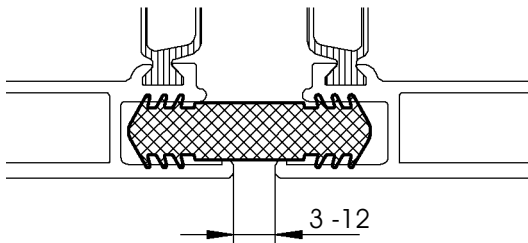
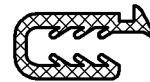


7057	Inside Profile	Outside Profile
Evolute: (mm)		
Visible width: 90	33	57
Perimeter: 306	178	203
PE joint	7519	7520



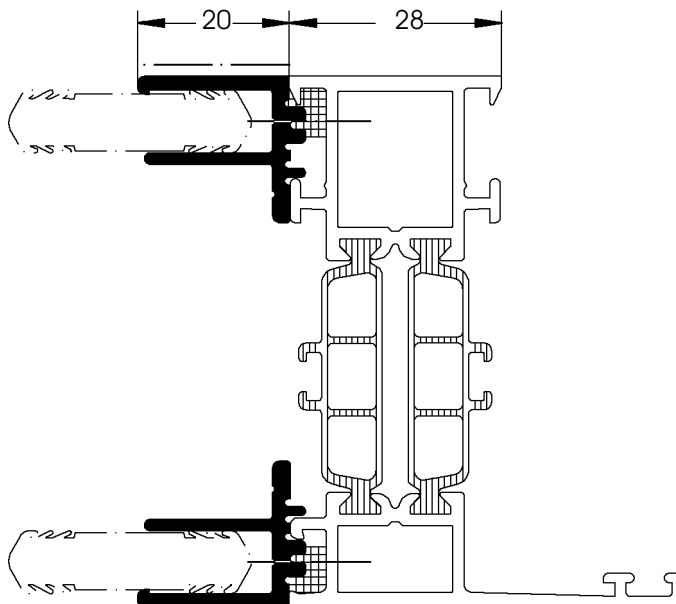
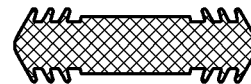
2616

Gasket
of EPDM
Colour: Black
O.U. = 100 m

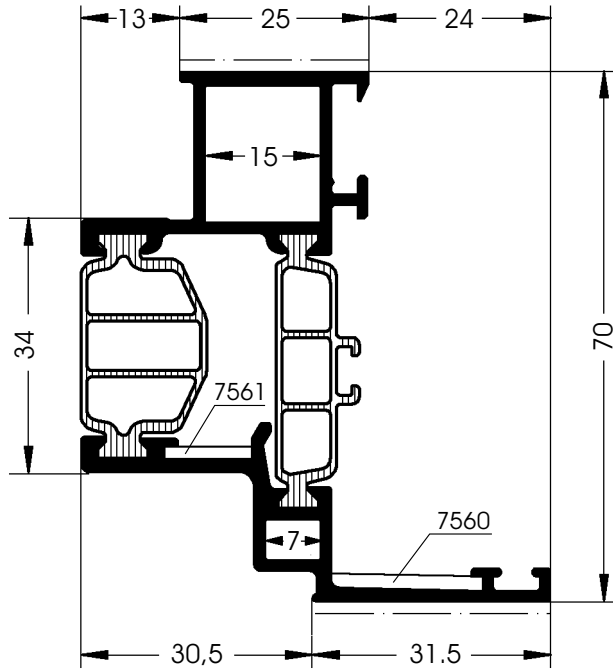
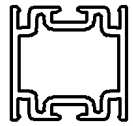


3616

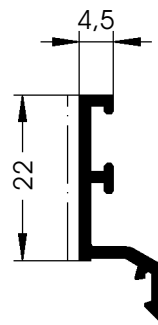
Gasket
of EPDM
Colour: Black
O.U. = 100 m



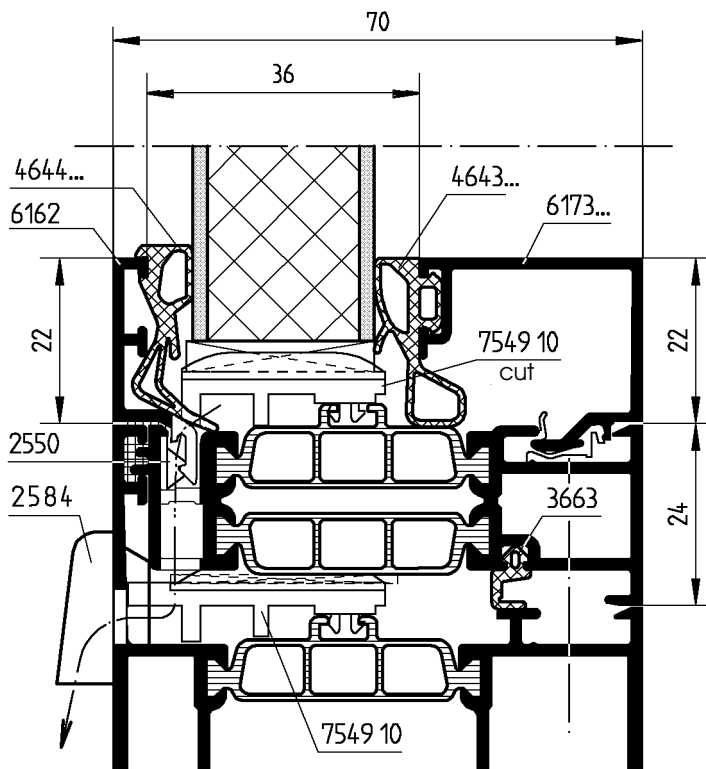
6148	
Evolute: (mm)	
Visible width: 20	
Perimeter: 125	



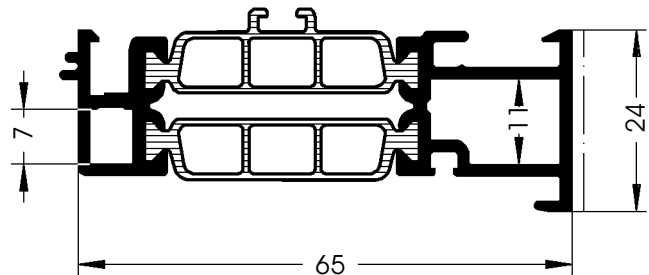
7051	Inside Profile	Outside Profile
Evolute: (mm)		
Visible width: 56	25	31
Perimeter: 266	168	211
PE joint:	7501	7524
Pin for NE:	5500	
Corner joint:		7560, 7561

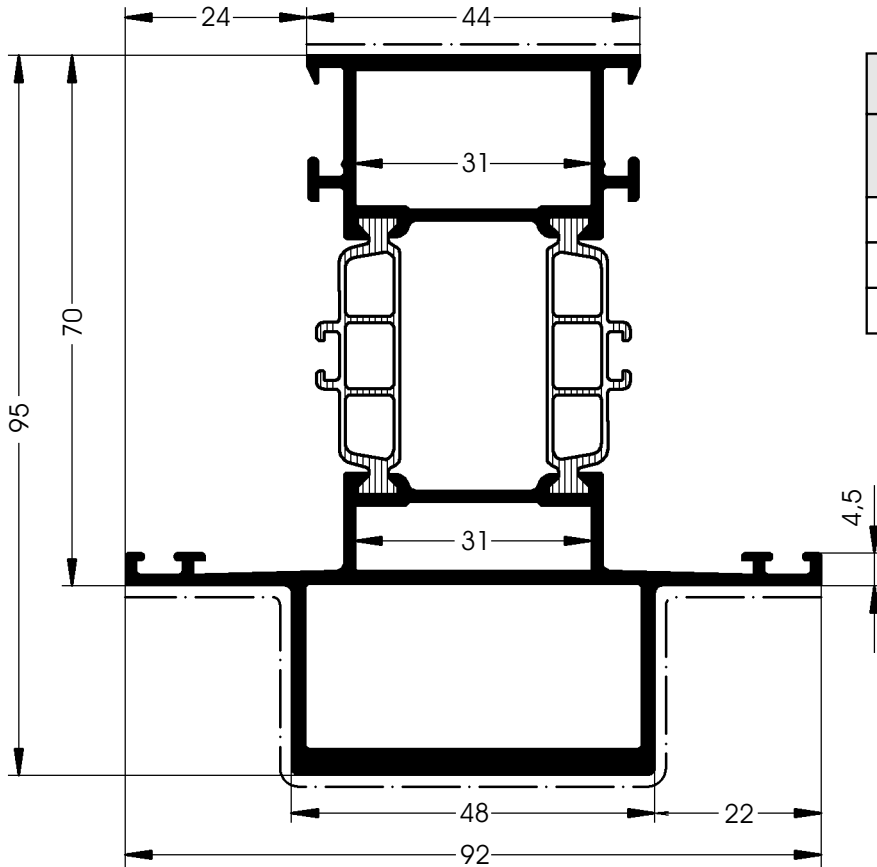
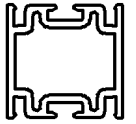


6162	Inside Profile	Outside Profile
Evolute: (mm)		
Visible width: 22		
Perimeter: 100		

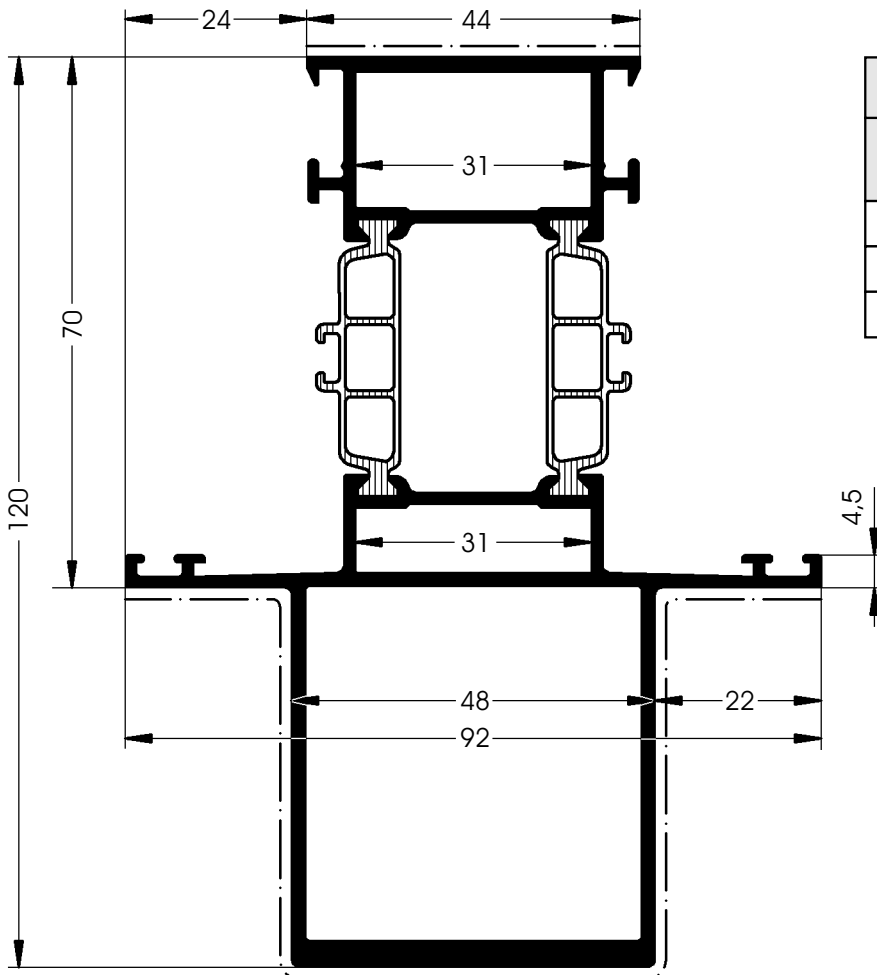


7026	Inside Profile	Outside Profile
Evolute: (mm)		
Visible width: 24	24	-
Perimeter: 176	148	103
PE joint:	7563	7524



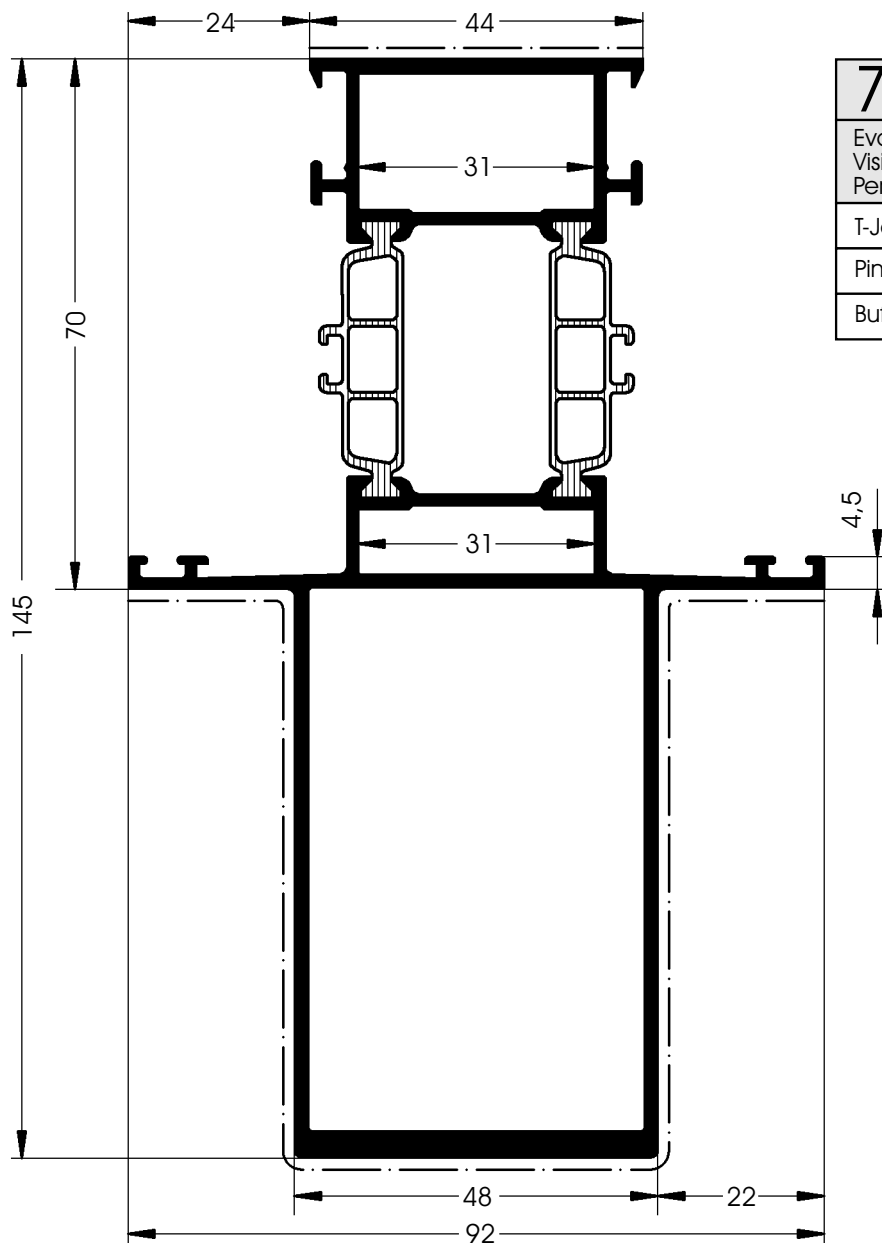
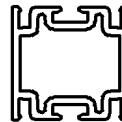


7073	Inside Profile	Outside Profile
Evolute: (mm)		
Visible width: 184	44	140
Perimeter: 415	197	313
T-Joint	7529	7530
Pin for NE / T-Joint:	5500	5500
Buffer	4629 35	

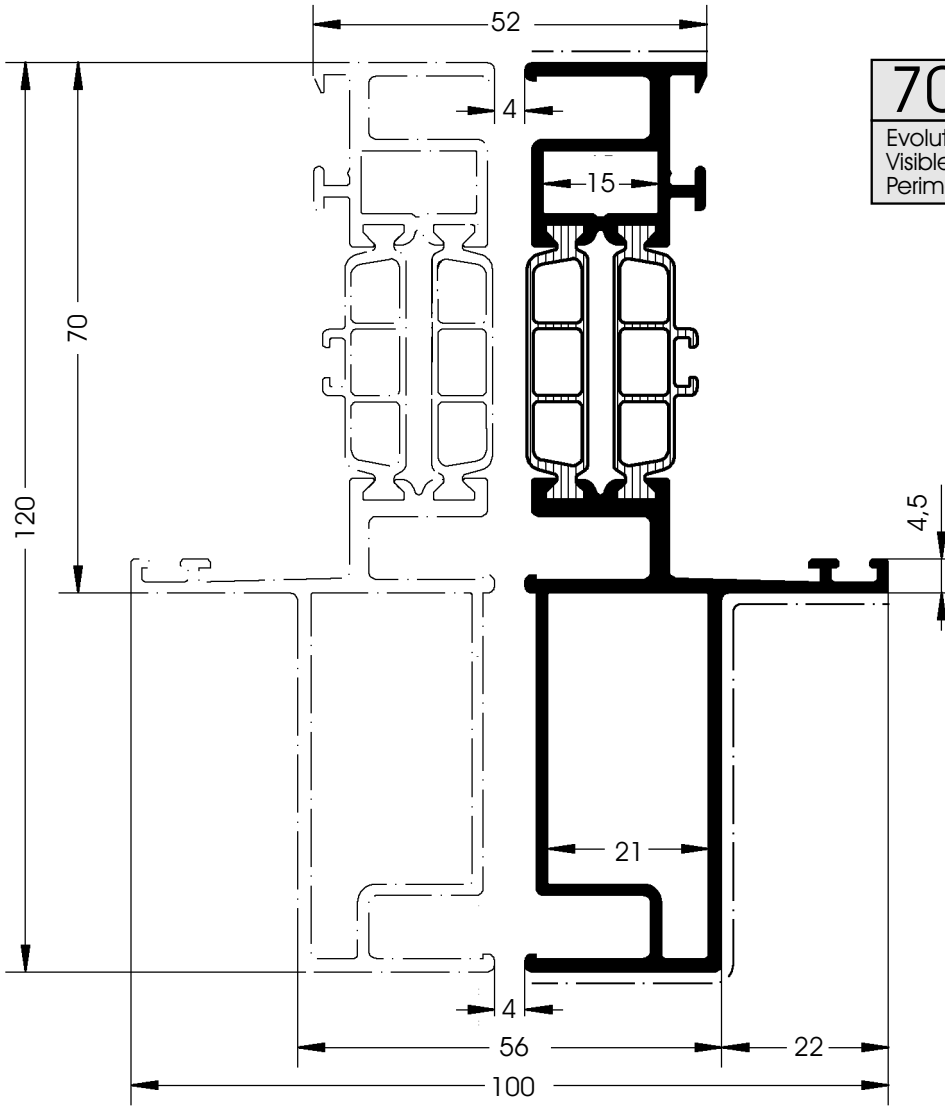
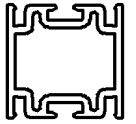


7074	Inside Profile	Outside Profile
Evolute: (mm)		
Visible width: 234	44	190
Perimeter: 465	197	363
T-Joint	7529	7530
Pin for NE / T-Joint:	5500	5500
Buffer	4629 35	

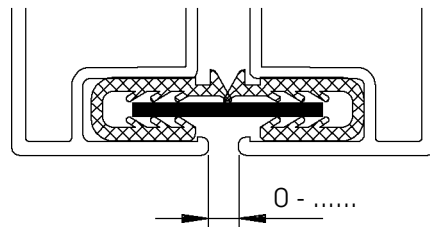
040917



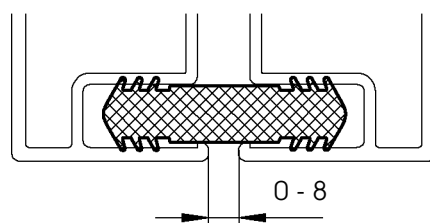
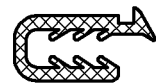
7075	Inside Profile	Outside Profile
Evolute: (mm)		
Visible width: 284	44	240
Perimeter: 515	197	413
T-Joint	7529	7530
Pin for NE / T-Joint:	5500	5500
Buffer	4629 35	



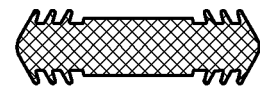
7046		Inside Profile	Outside Profile
Evolute:	(mm)		
Visible width:	119	23	96
Perimeter:	424	166	424

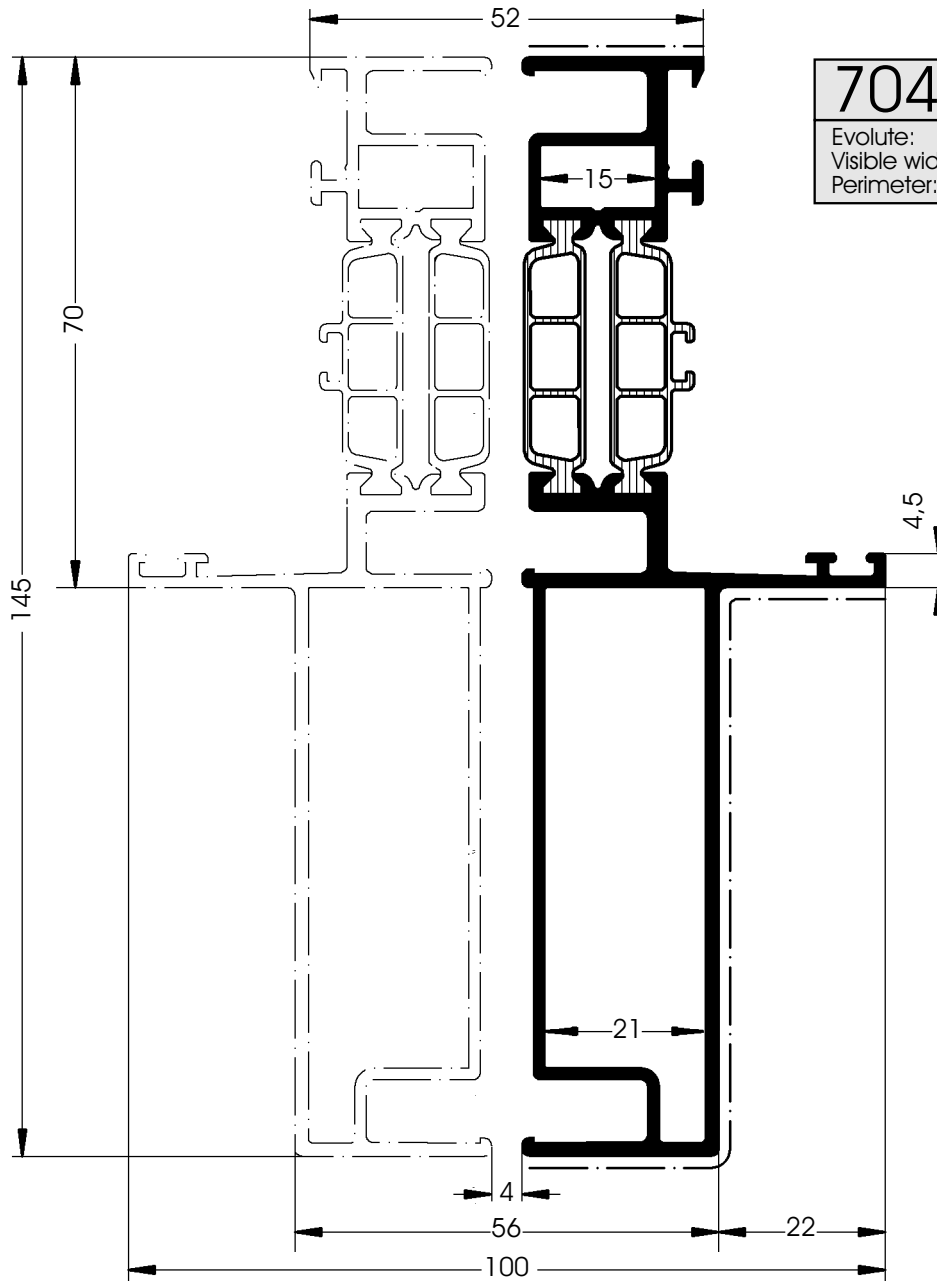
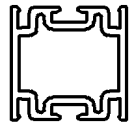


2616
Gasket
of EPDM
Colour: Black
O.U. = 100 m

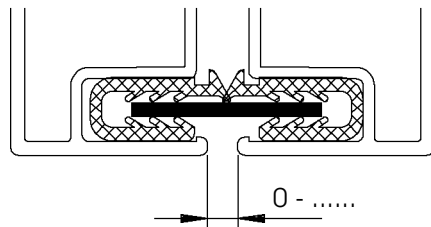


3616
Gasket
of EPDM
Colour: Black
O.U. = 100 m

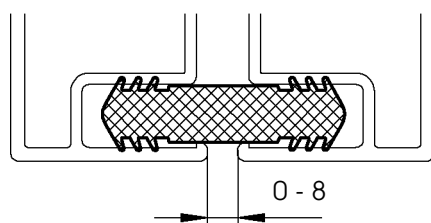
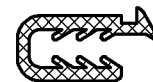




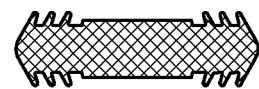
7047		Inside Profile	Outside Profile
Evolute:	(mm)		
Visible width:	144	23	121
Perimeter:	474	166	373

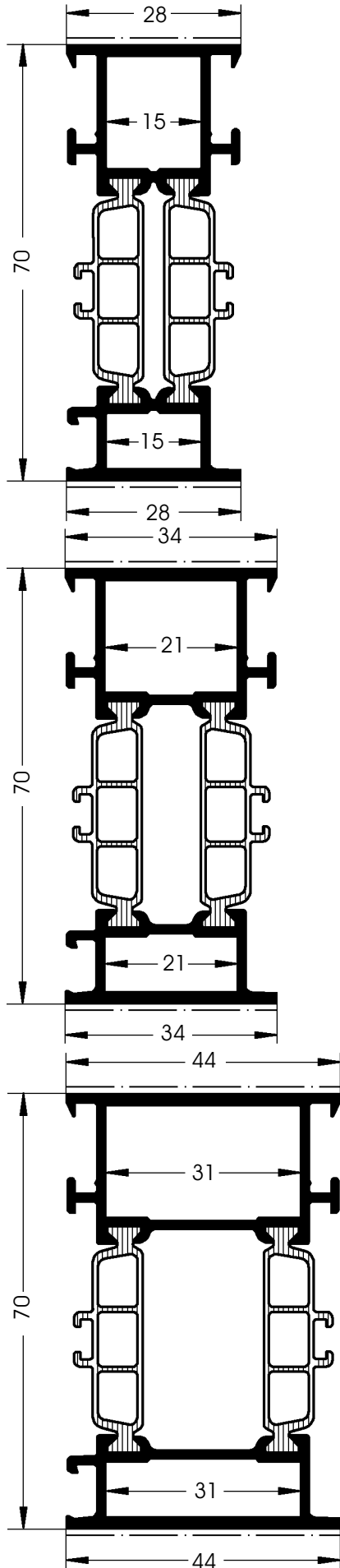
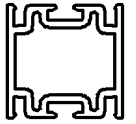


2616
Gasket
of EPDM
Colour: Black
O.U. = 100 m



3616
Gasket
of EPDM
Colour: Black
O.U. = 100 m

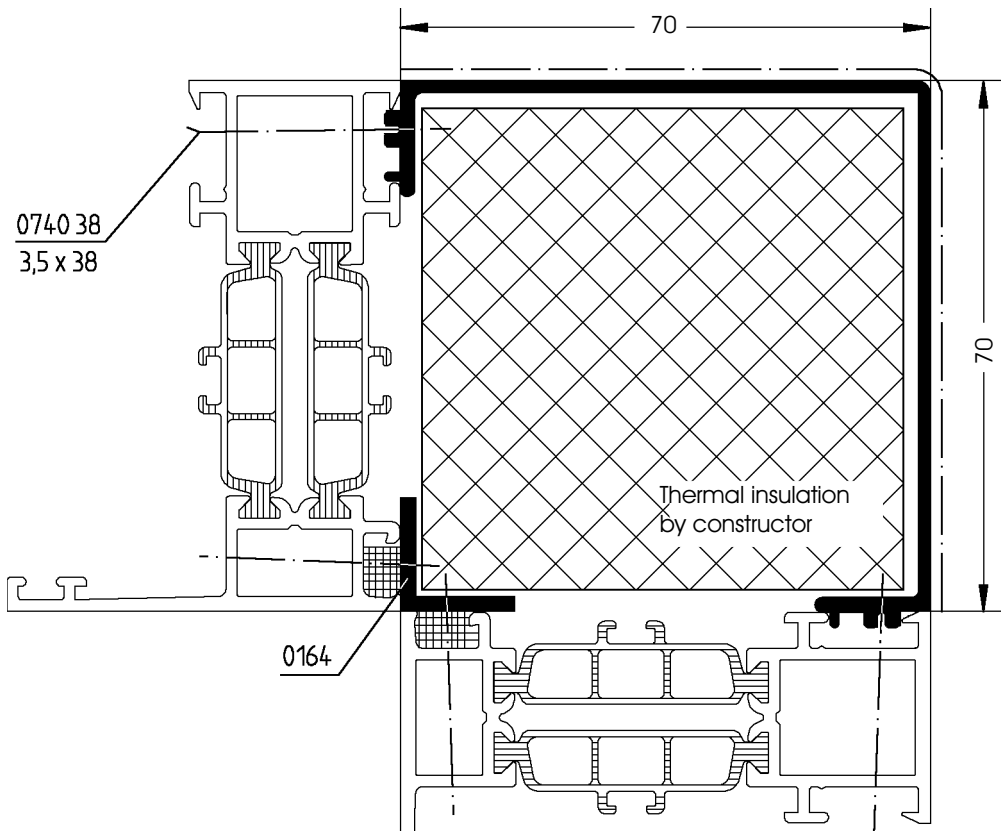
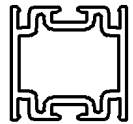




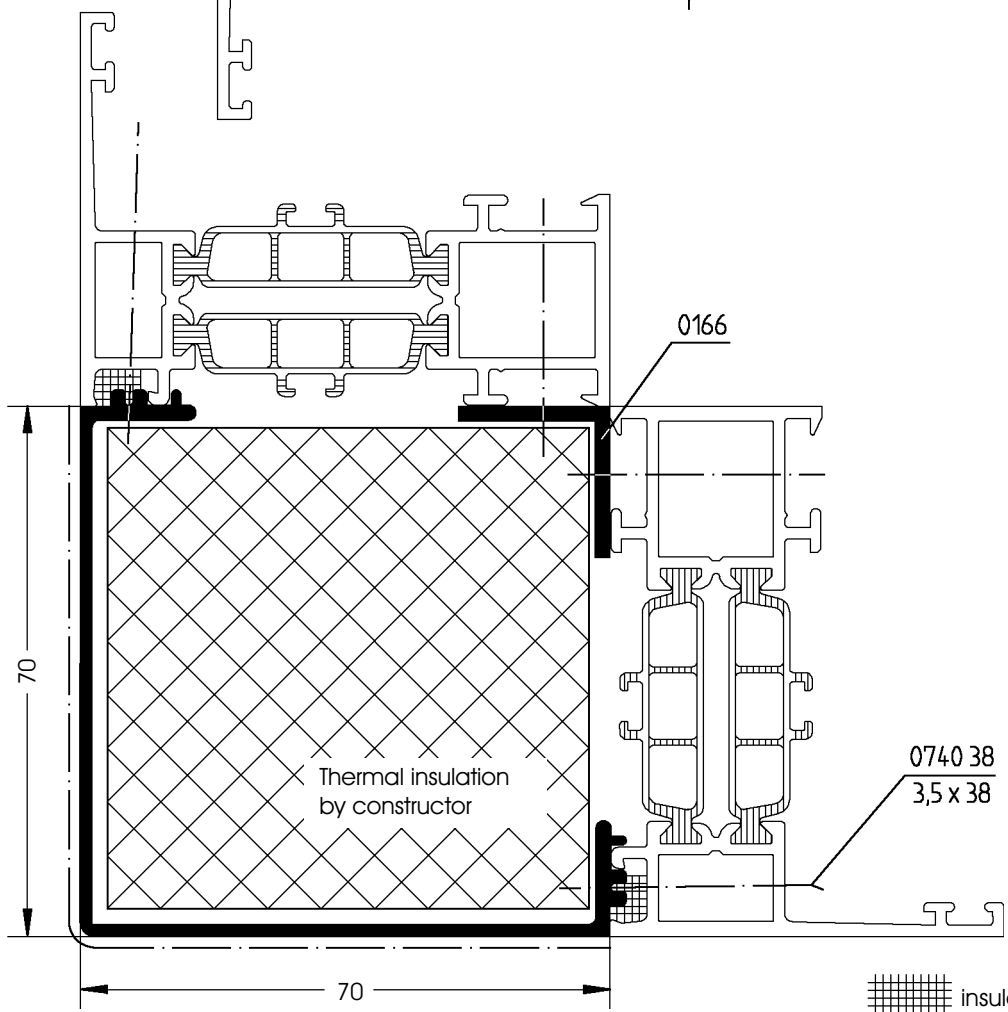
7080	Inside Profile	Outside Profile
Evolute: (mm)		
Visible width: 56	28	28
Perimeter: 218	164	116
PE / NE-Corner joint	7501	7502
T-Joint	7525	7526
Pin for NE / T-Joint:	5500	5500
Buffer	4629 19	

7081	Inside Profile	Outside Profile
Evolute: (mm)		
Visible width: 68	34	34
Perimeter: 230	177	128
PE / NE-Corner joint	7503	7504
T-Joint	7527	7528
Pin for NE / T-Joint:	5500	5500
Buffer	4629 25	

7082	Inside Profile	Outside Profile
Evolute: (mm)		
Visible width: 88	44	44
Perimeter: 250	197	148
PE / NE-Corner joint	7505	7506
T-Joint	7529	7530
Pin for NE / T-Joint:	5500	5500
Buffer	4629 35	



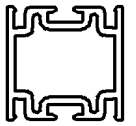
6141	
Evolute:	(mm)
Visible width:	140
Perimeter:	352



6141	
Evolute:	(mm)
Visible width:	140
Perimeter:	352



040917



6142

Evolute:	(mm)
Visible width:	58
Perimeter:	191

6143 10

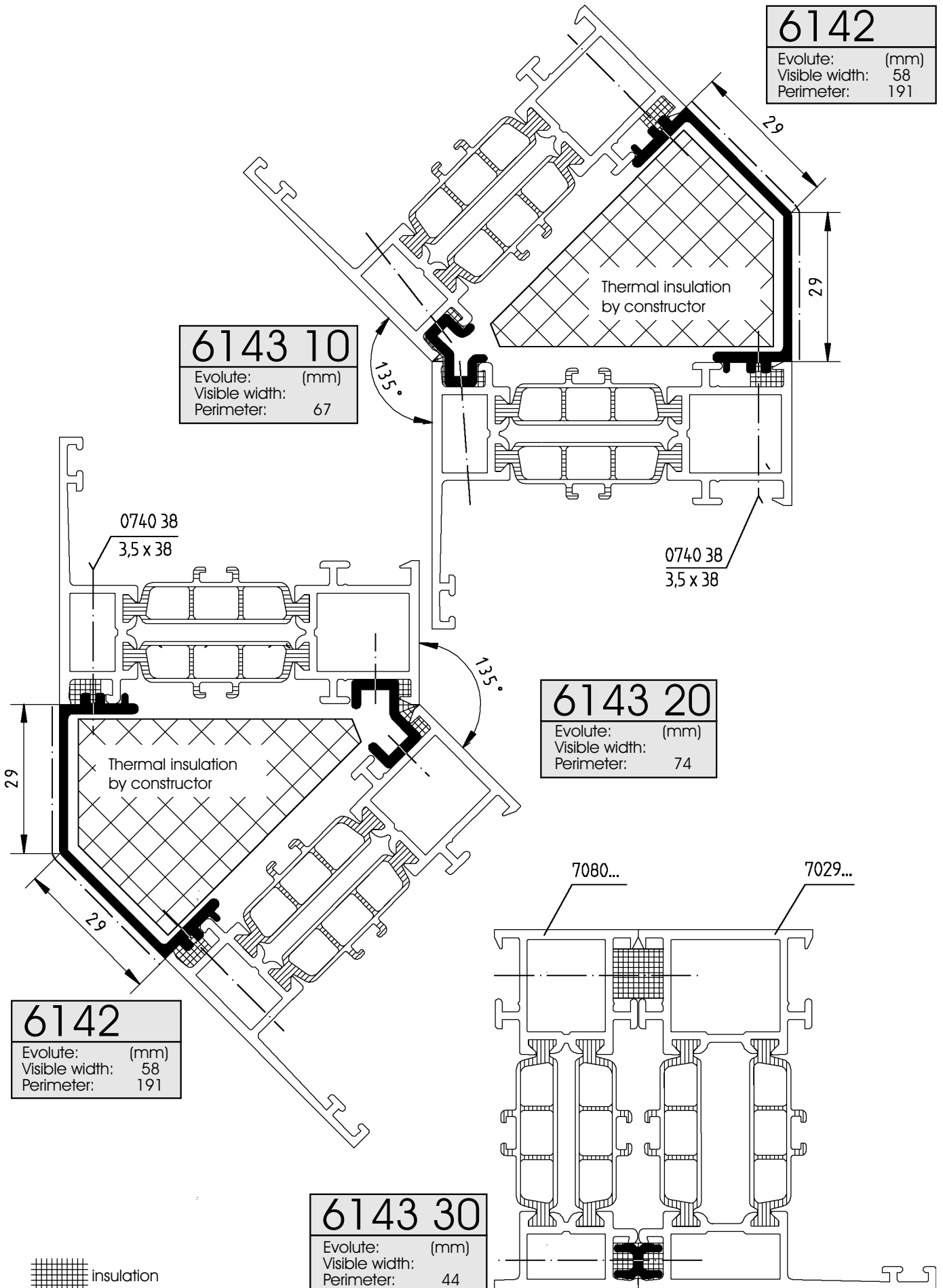
Evolute:	(mm)
Visible width:	67
Perimeter:	67

6143 20

Evolute:	(mm)
Visible width:	74
Perimeter:	74

6143 30

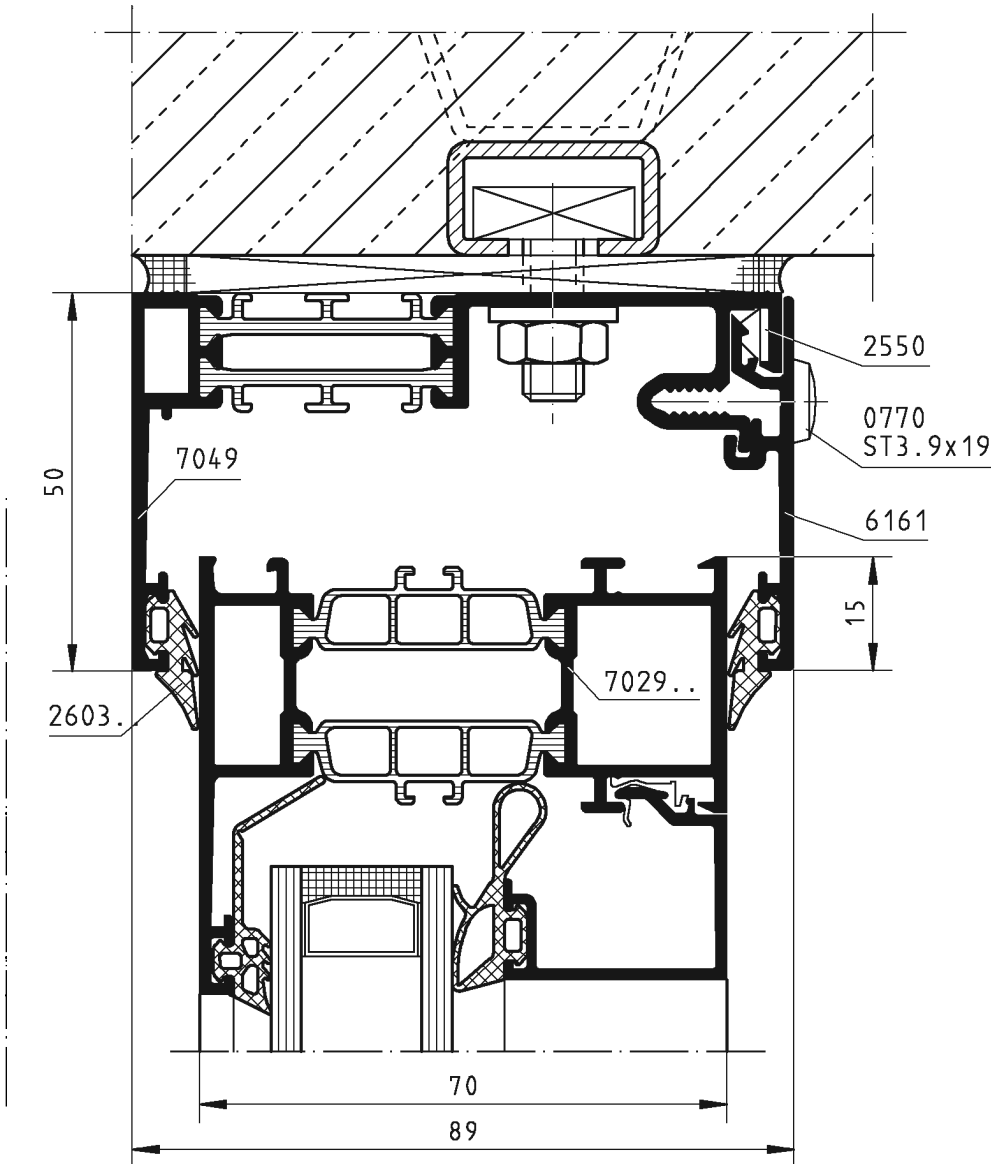
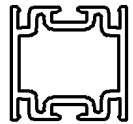
Evolute:	(mm)
Visible width:	44
Perimeter:	44



6142

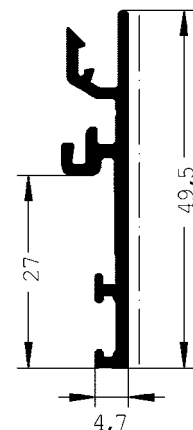
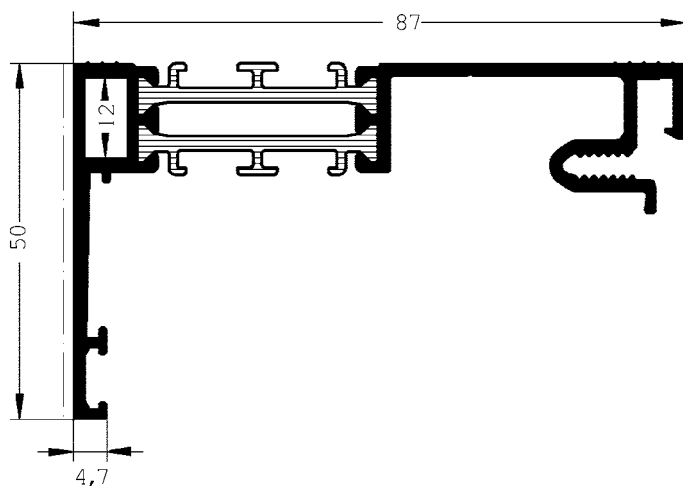
Evolute:	(mm)
Visible width:	58
Perimeter:	191

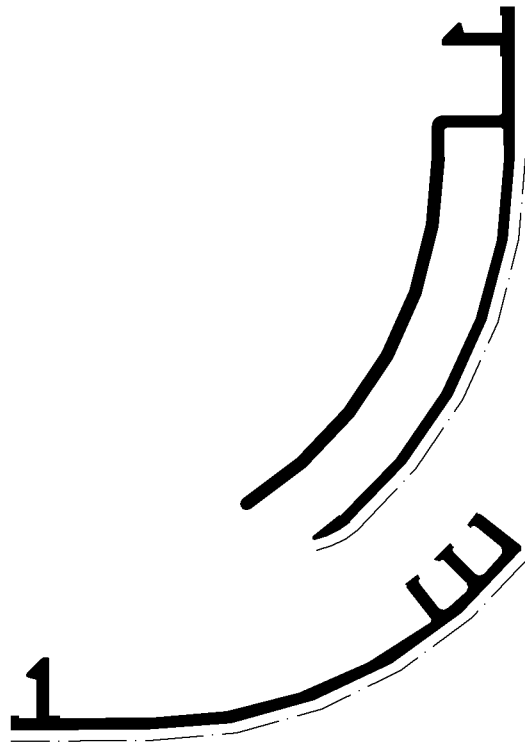
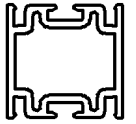




7049	Inside Profile	Outside Profile
Evolute: (mm)		
Visible width: 50		50
Perimeter: 355	245	160

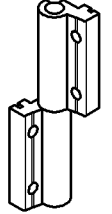
6141	Evolute: (mm)
Visible width: 49	
Perimeter: 175	





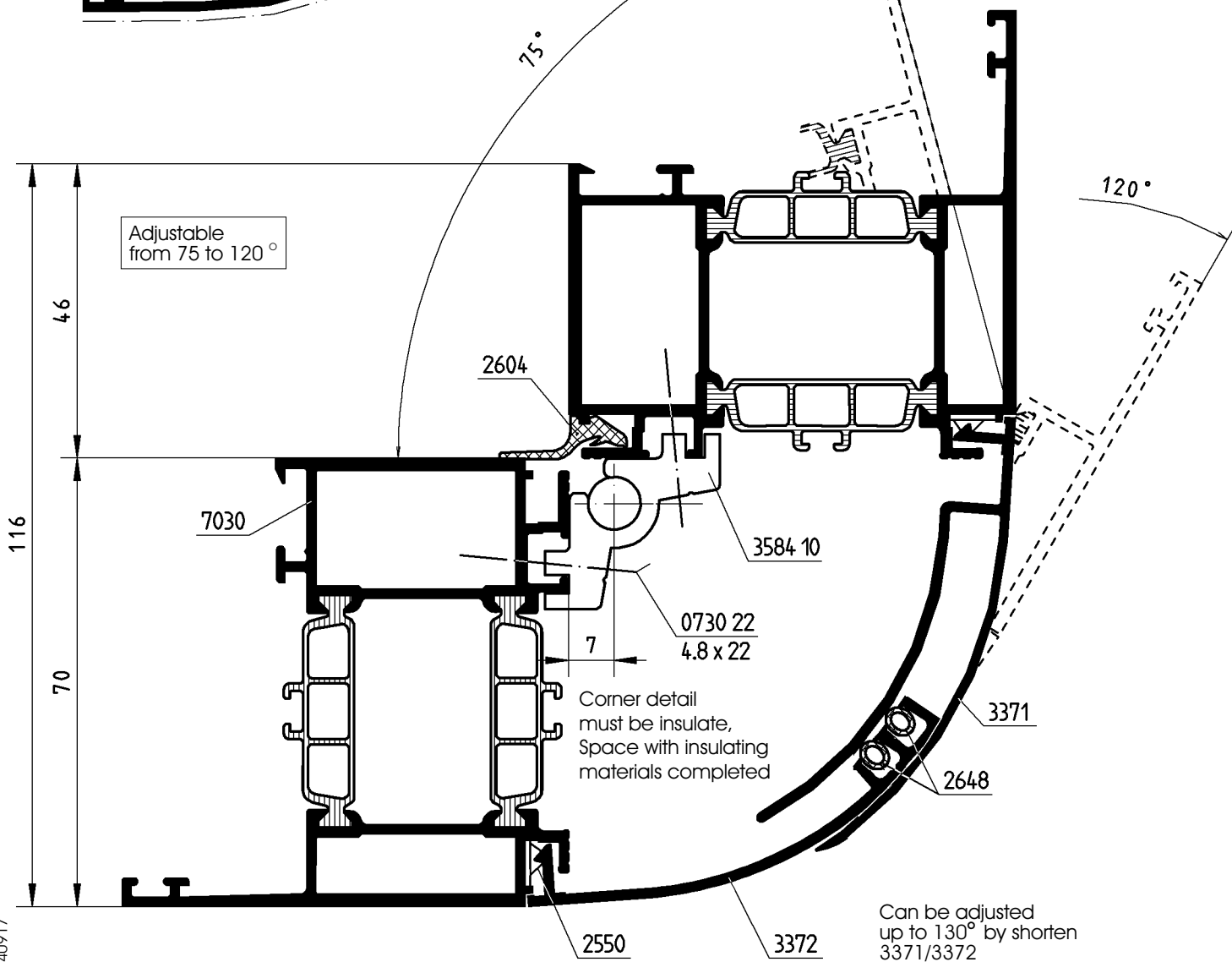
3371	
Evolute:	(mm)
Visible width:	81
Perimeter:	313

3584 10
Hinge for joining
For external corner
O.U. = 1 piece

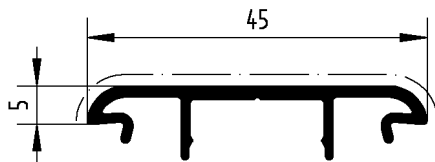
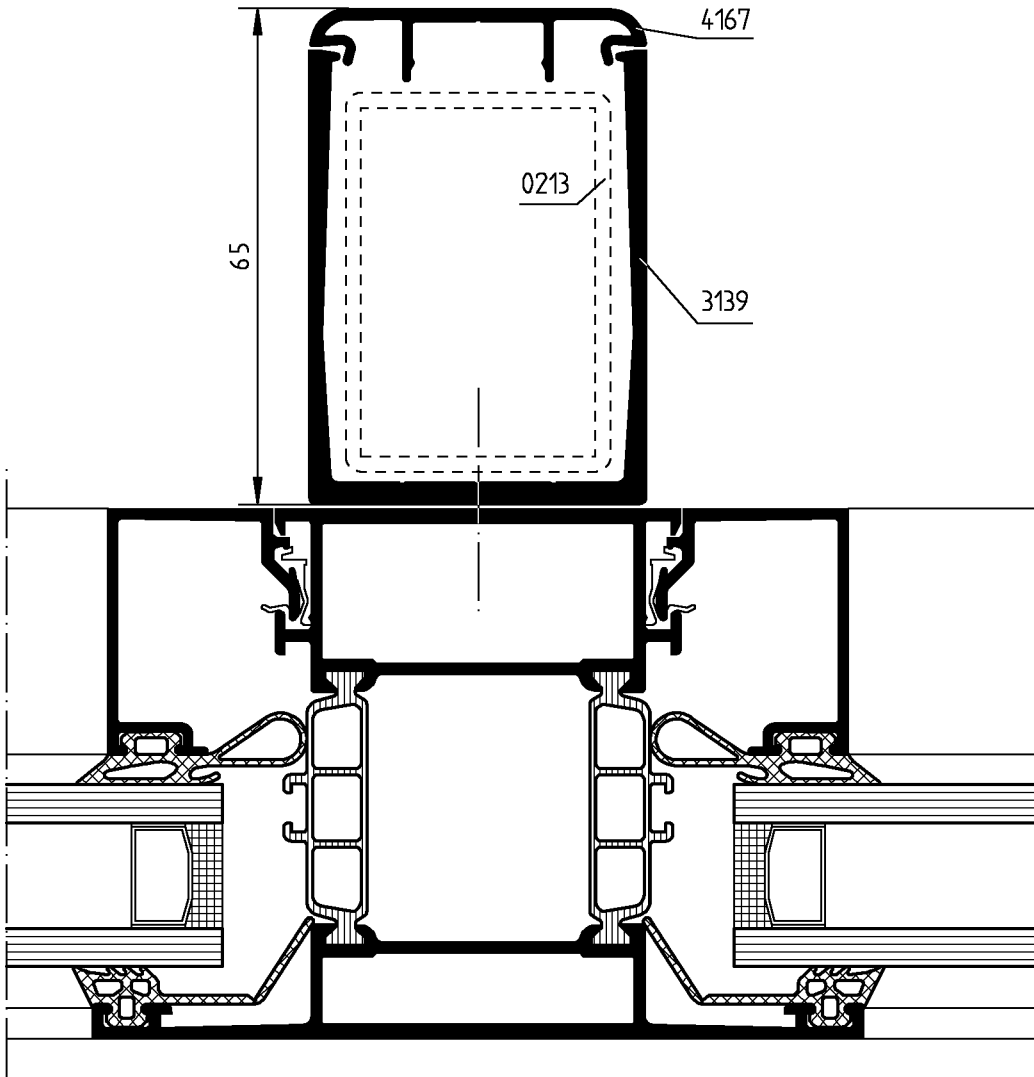
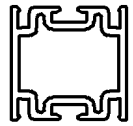


3372	
Evolute:	(mm)
Visible width:	76
Perimeter:	207

2648
Round gasket
black
O.U. = 100 m



040917

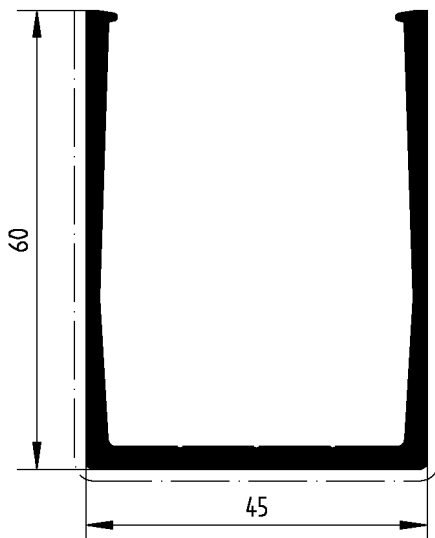


4167	
Evolute:	(mm)
Visible width:	50
Perimeter:	151

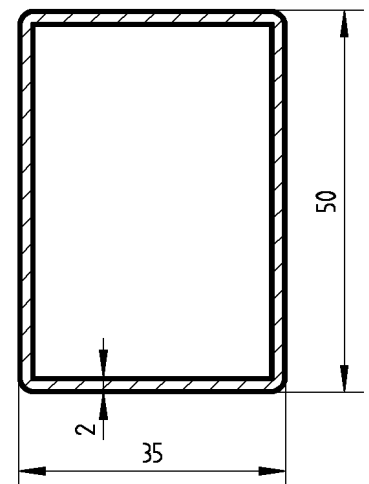
0213

Steel tube galvanized
6m long
50x35x2

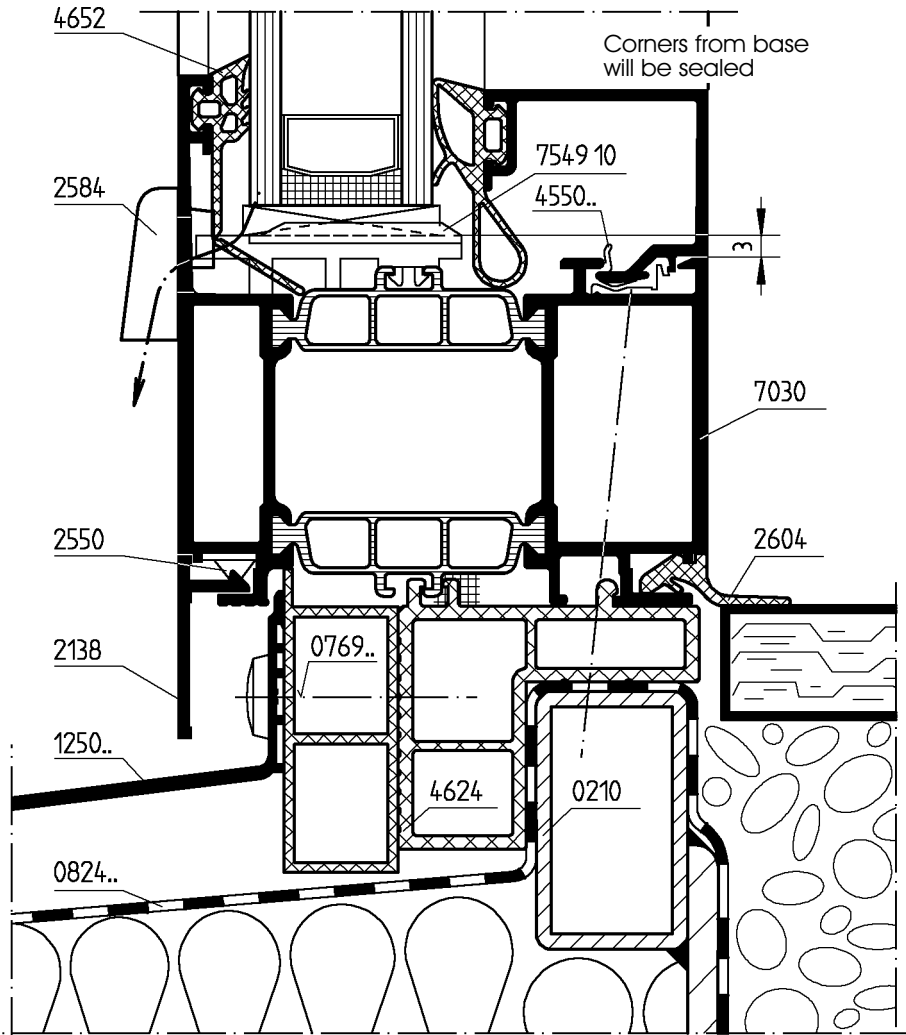
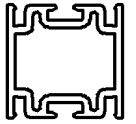
$I_x = 11.1 \text{ cm}^4$
 $I_y = 6.3 \text{ cm}^4$



3139	
Evolute:	(mm)
Visible width:	120
Perimeter:	325
$I_x = 17.08 \text{ cm}^4$	
$I_y = 14.57 \text{ cm}^4$	



040917



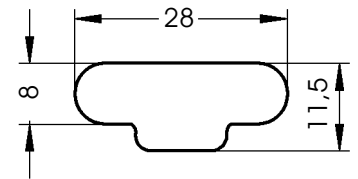
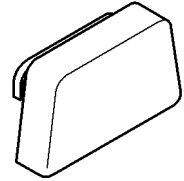
2584 04

Cover cap

White
For vapor pressure equalisation
O.U. = 10 pieces

2584 05

Like previous,
but black



Drainage slot
frame, mullion profile

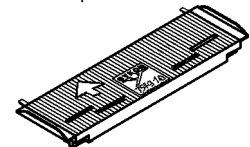
Tools: **3855, 3851**

Pneumatic press: **3821**

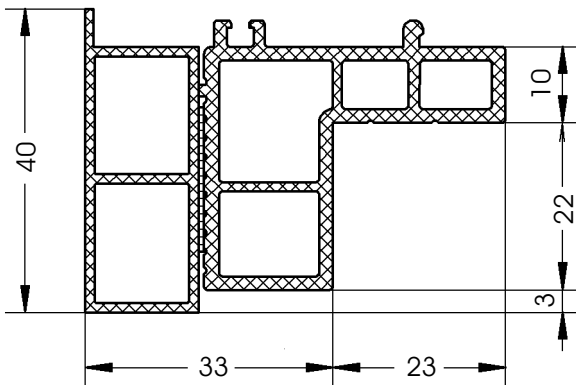
7549 10

Buffer

30 x 3 mm
Colour: light green
O.U. = 50 pieces



Hint: The support profile consist from 2 profiles.
The fastening for window sill or covering must be
fixed at least through 3 spire. For big glass weight must be provided a support.



4624

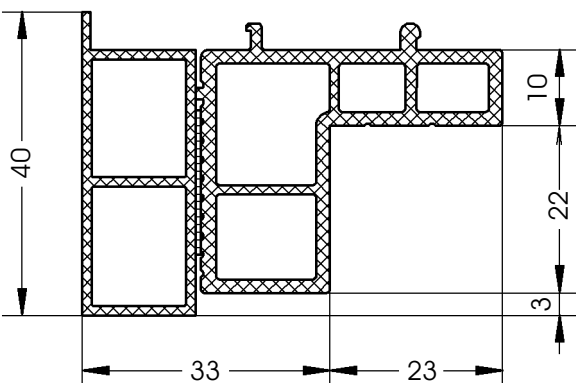
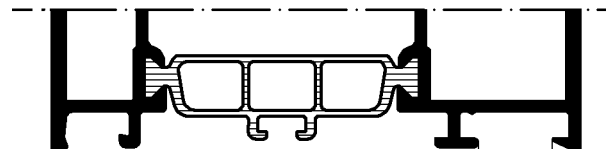
Support profile

With effectiveness
insulation
of water drainage
for frames
7030, 7033
Length 6 m
Colour: black
O.U. = 1 piece

7549 20

Buffer

48 x 3 mm
Colour: light rose
O.U. = 50 Pieces



4624 10

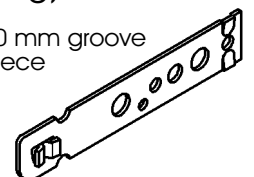
Support profile

With effectiveness insulation
of water drainage
for frames
7028, 7029, 7069..
Mullion profiles
7034, 7031..
Length 6 m
Colour: black
O.U. = 1 piece

4564

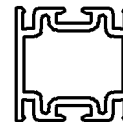
(Clamping) Anchor

galvanized
for holes 10 mm groove
O.U. = 1 piece



The anchoring 4564 by frames 7030 und 7033
is assembled with screw to the frame.

040917

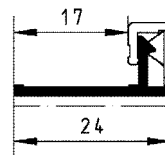
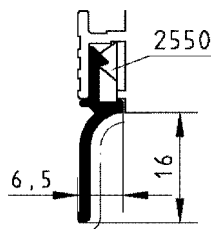
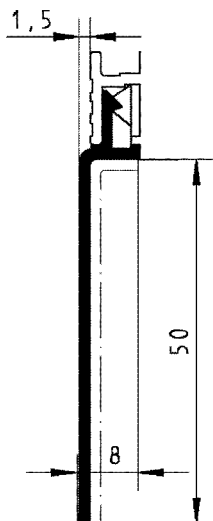
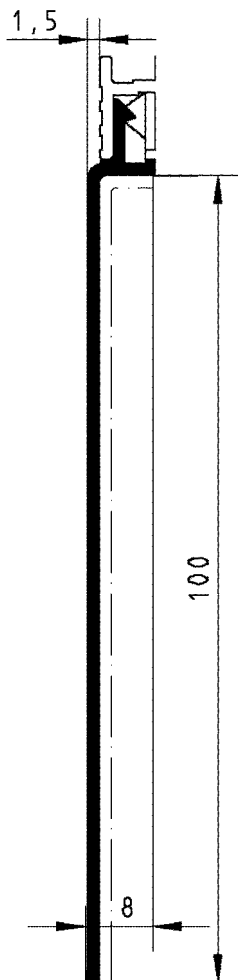


2779	
Evolute:	(mm)
Visible width:	105
Perimeter:	234

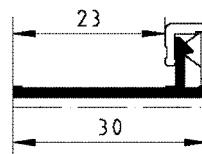
2773	
Evolute:	(mm)
Visible width:	57
Perimeter:	136

4156	
Evolute:	(mm)
Visible width:	17
Perimeter:	65

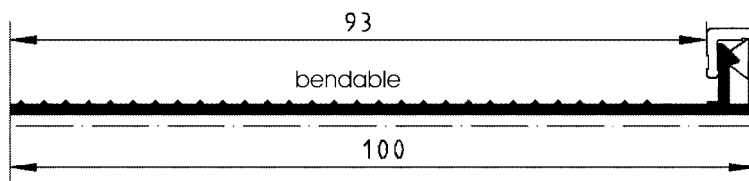
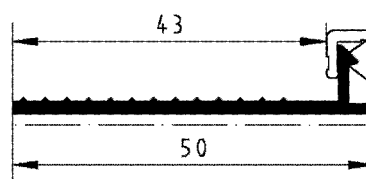
2138	
Evolute:	(mm)
Visible width:	24
Perimeter:	70



2139	
Evolute:	(mm)
Visible width:	30
Perimeter:	82

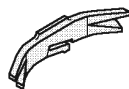


2790	
Evolute:	(mm)
Visible width:	50
Perimeter:	148

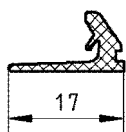


2744	
Evolute:	(mm)
Visible width:	100
Perimeter:	248

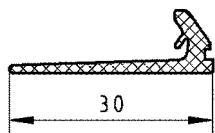
2550
Synthetic-Holder
4 pieces/m slot
O.U. = 100 pieces



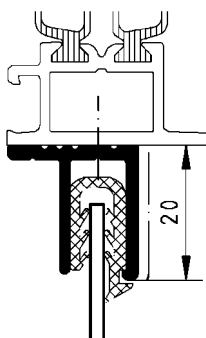
2604
Joining gaskets
of EPDM
Colour: black
O.U. = 100 m



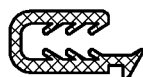
2604 04
Joining gaskets
Of white PVC
for internal placement
O.U. = 100 m



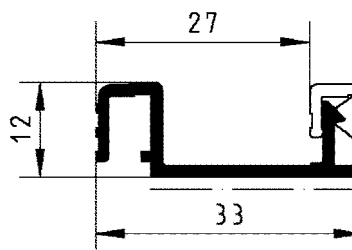
2617
Joining gaskets
of EPDM
black
O.U. = 100 m



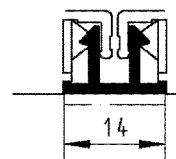
2616
Gasket
of EPDM
black
O.U. = 100 m



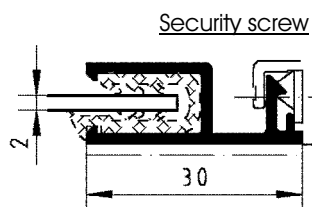
6148 10	
Evolute:	(mm)
Visible width:	20
Perimeter:	114



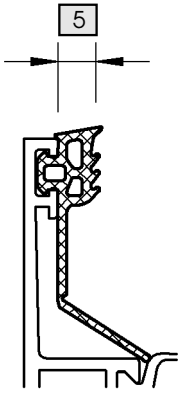
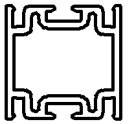
2314	
Evolute:	(mm)
Visible width:	26
Perimeter:	127



4178	
Evolute:	(mm)
Visible width:	14
Perimeter:	65



2304	
Evolute:	(mm)
Visible width:	30
Perimeter:	137

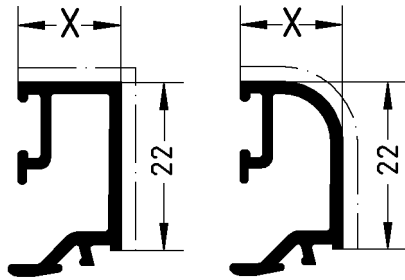


Outside

4652

Gasket corner
of EPDM,
black
O.U. = 100 m

Fold width key (mm)

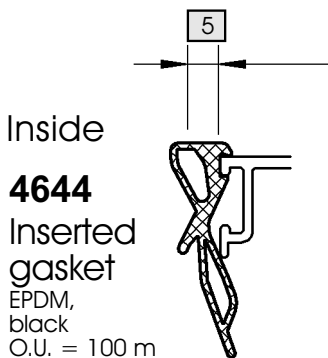


Anti burglar
WK2/WK3

Order number Glazing bead	Order number		Order number Hollow glazing bead	Glazing bead width X mm	Fold width		
	Curved glazing bead	Corner piece			Fixed glazed, door leaf (70 mm)	Window leaf (80 mm)	Renovative window leaf (80 mm)
6165				4.5	61	71	65
6167				10.5	55	65	59
6168	6192	6563		13.5	52	62	56
			6180	15.5	50	60	54
6169	6193			16.5	49	59	53
6170	6194	6564	6181	19.5	46	56	50
6171	6195	6565		22.5	43	53	47
			6182	25.5	40	50	44
6172	6196	6566		26.5	39	49	43
6173	6197	6567	6183	29.5	36	46	40
6174	6188	6568		32.5	33	43	37
			6184	33.5	32	42	36
6175	6198	6569		35.5	30	40	34
6176	6199	6570	6185	39.5	26	36	30
6177	6189	6571		42.5		33	27
6178	6190	6572		45.5		30	

Hint:

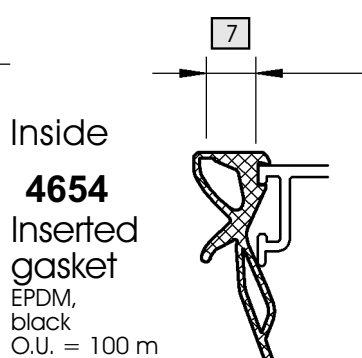
Preference values are based on nomimative dimensions.
Glazing beads must be calculated from the closest gasket



Inside

4644

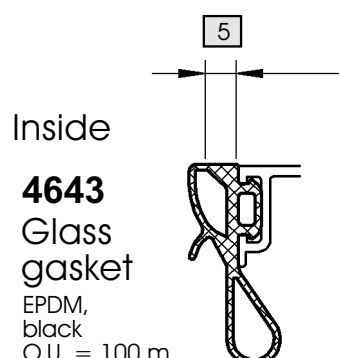
Inserted gasket
EPDM,
black
O.U. = 100 m



Inside

4654

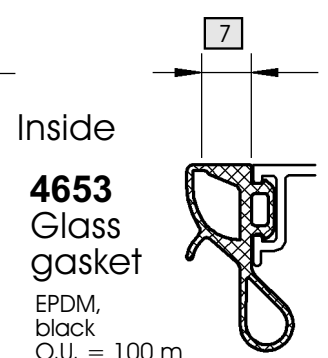
Inserted gasket
EPDM,
black
O.U. = 100 m



Inside

4643

Glass gasket
EPDM,
black
O.U. = 100 m



Inside

4653

Glass gasket
EPDM,
black
O.U. = 100 m

040917

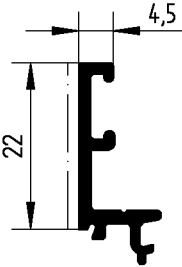
5 - 6 = Suggested dimension

7 - 8 = Suggested dimension

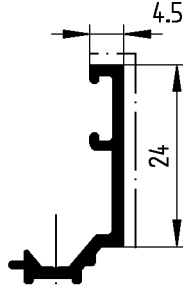
5 - 6 = Suggested dimension

7 - 8 = Suggested dimension

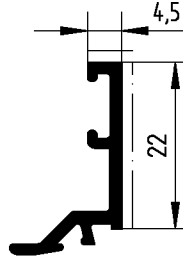
6163
Evolute: (mm)
Visible width: 22
Perimeter: 95



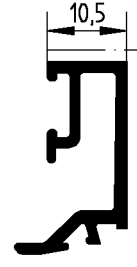
6155
Evolute: (mm)
Visible width: 24
Perimeter: 102



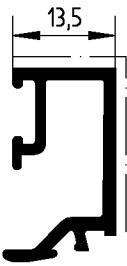
6165
Evolute: (mm)
Visible width: 22
Perimeter: 98



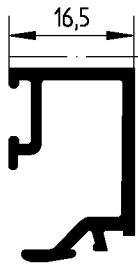
6167
Evolute: (mm)
Visible width: 32
Perimeter: 132



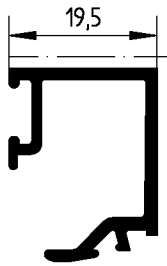
6168
Evolute: (mm)
Visible width: 35
Perimeter: 138



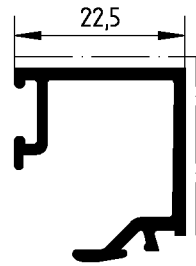
6169
Evolute: (mm)
Visible width: 38
Perimeter: 144



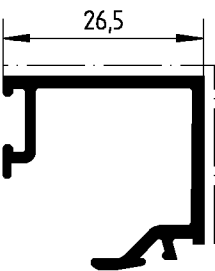
6170
Evolute: (mm)
Visible width: 41
Perimeter: 150



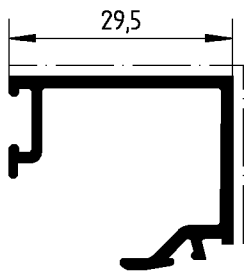
6171
Evolute: (mm)
Visible width: 44
Perimeter: 156



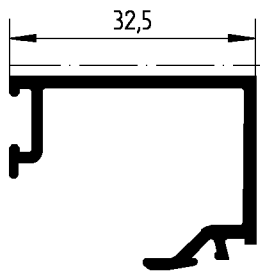
6172
Evolute: (mm)
Visible width: 48
Perimeter: 164



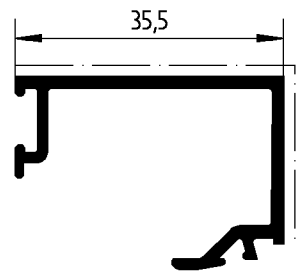
6173
Evolute: (mm)
Visible width: 51
Perimeter: 170



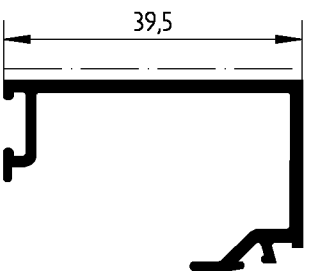
6174
Evolute: (mm)
Visible width: 54
Perimeter: 176



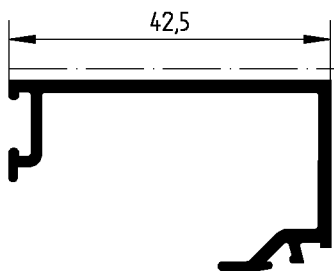
6175
Evolute: (mm)
Visible width: 57
Perimeter: 182



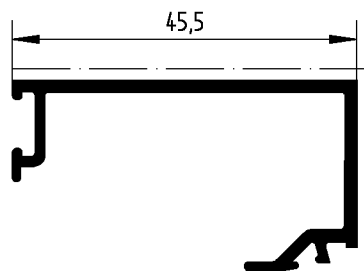
6176
Evolute: (mm)
Visible width: 61
Perimeter: 190

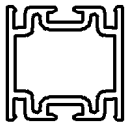


6177
Evolute: (mm)
Visible width: 64
Perimeter: 196

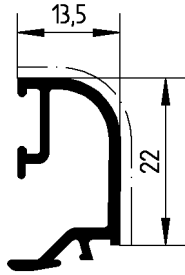


6178
Evolute: (mm)
Visible width: 67
Perimeter: 202

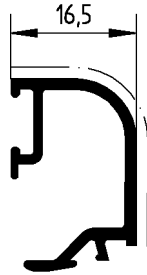




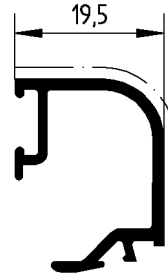
6192	
Evolute:	(mm)
Visible width:	31
Perimeter:	132



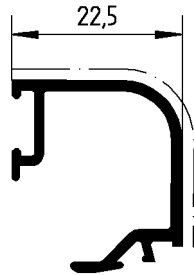
6193	
Evolute:	(mm)
Visible width:	34
Perimeter:	138



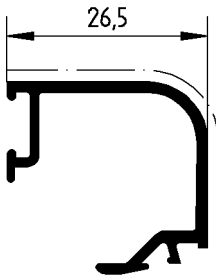
6194	
Evolute:	(mm)
Visible width:	37
Perimeter:	144



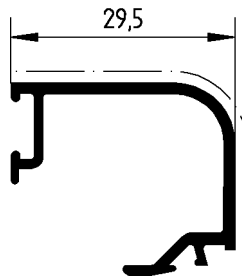
6195	
Evolute:	(mm)
Visible width:	41
Perimeter:	149



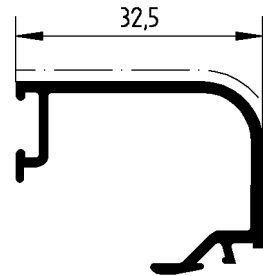
6196	
Evolute:	(mm)
Visible width:	45
Perimeter:	157



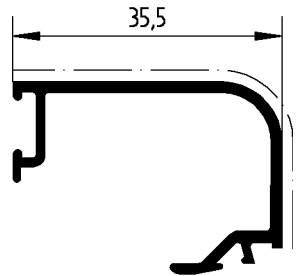
6197	
Evolute:	(mm)
Visible width:	47
Perimeter:	164



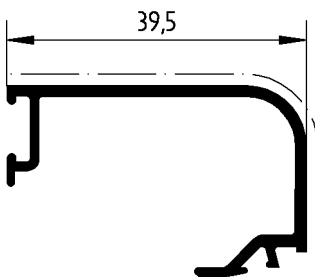
6188	
Evolute:	(mm)
Visible width:	50
Perimeter:	170



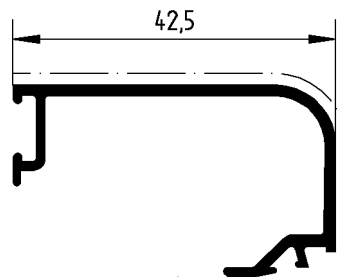
6198	
Evolute:	(mm)
Visible width:	53
Perimeter:	176



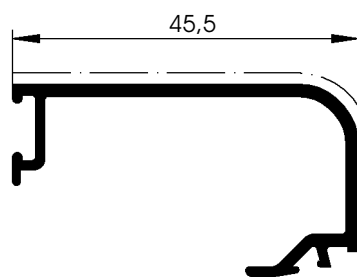
6199	
Evolute:	(mm)
Visible width:	57
Perimeter:	184



6189	
Evolute:	(mm)
Visible width:	60
Perimeter:	190



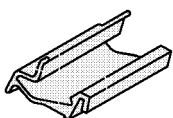
6190	
Evolute:	(mm)
Visible width:	63
Perimeter:	196



4550

Synthetic-Glazing bead holder

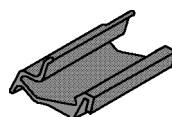
for anodized profile
Colour: white
4 pieces / m
O.U. = 100 pieces



4551

Synthetic-Glazing bead holder

For painted profile
Colour: blue
4 pieces / m
O.U. = 100 pieces

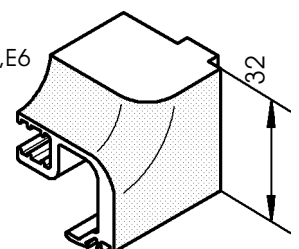


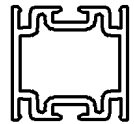
6563 - 6572

Corner for curved glazing beads from aluminium with curved edges. Distance from frame corners 32mm. With different widths, suitable for round glazing beads.

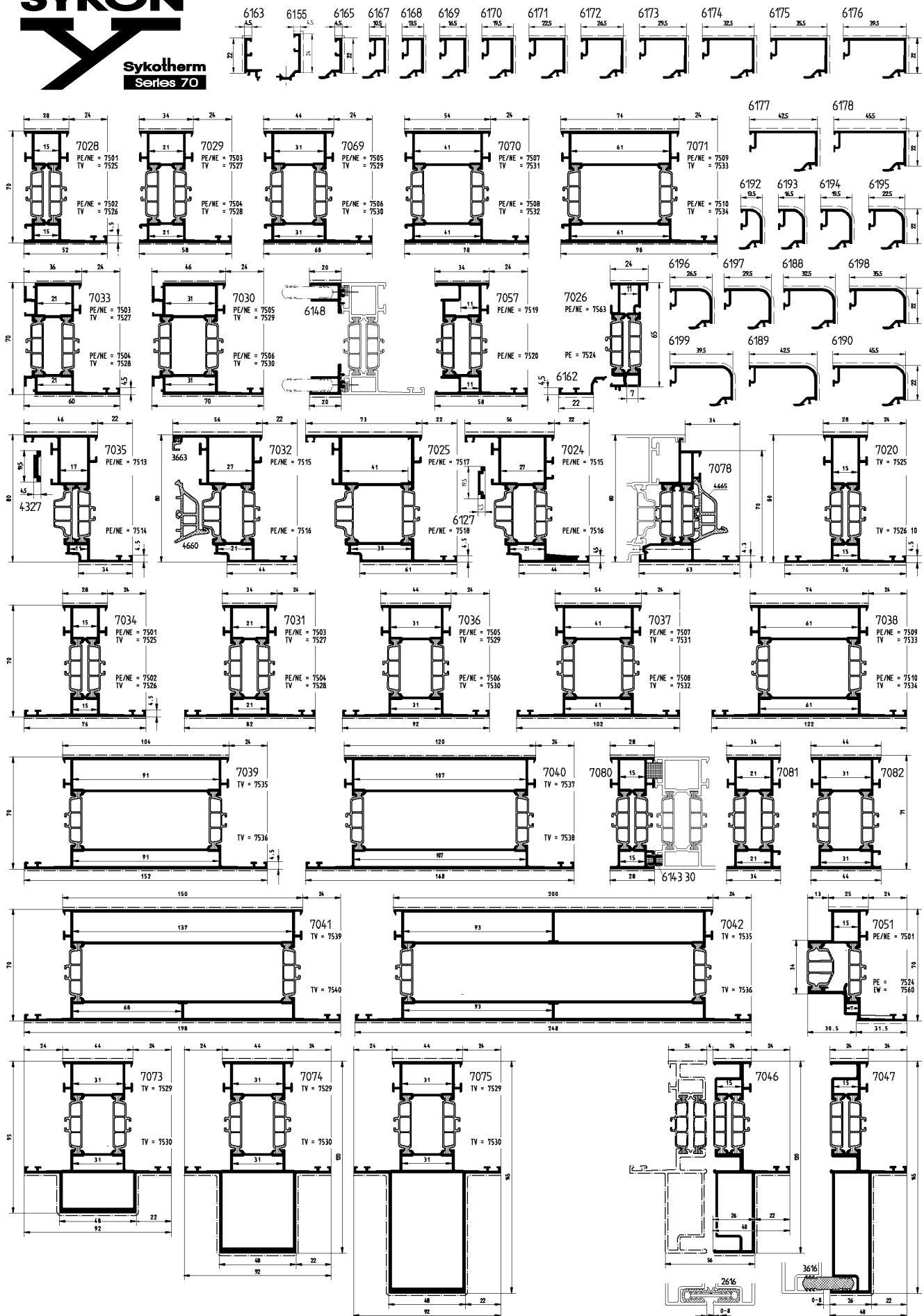
Order number:

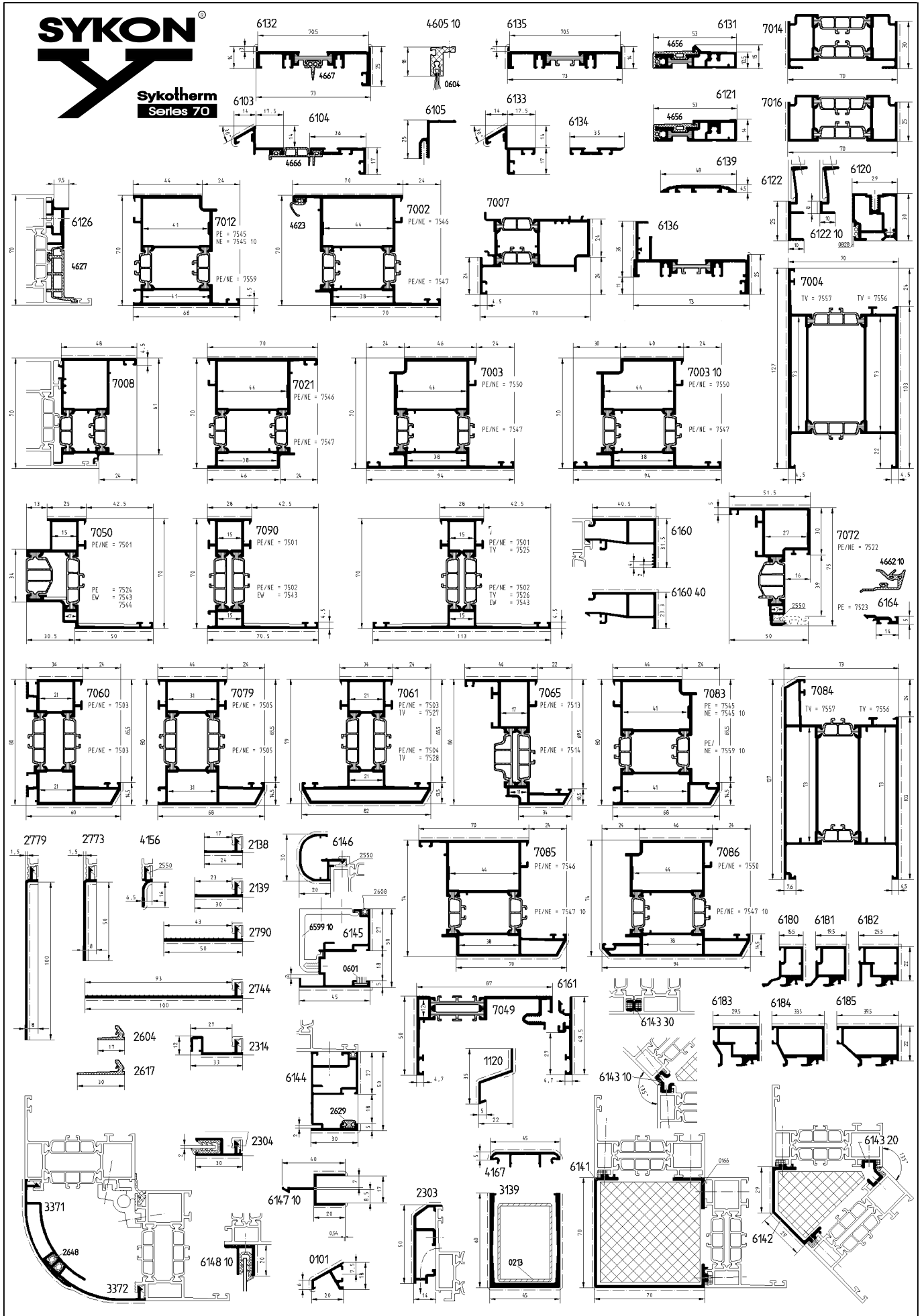
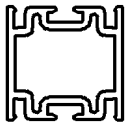
See the table fold with key
Available in millfinish, E6/EV1, E6 dark bronze white or RAL by request coated.





SYKON
SykoTherm
Series 70





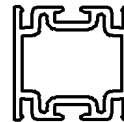
050210

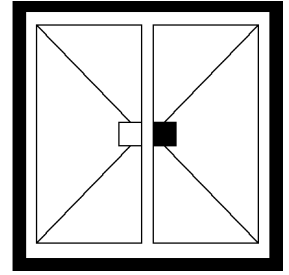


by



Sykotherm
Series 70





Doors

Single and double leaf doors

Rebate doors

House doors

Escape doors

Burglar protection doors DIN ENV 1627

System profiles

Accessories

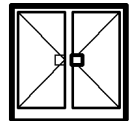
Sykotherm

Series 70

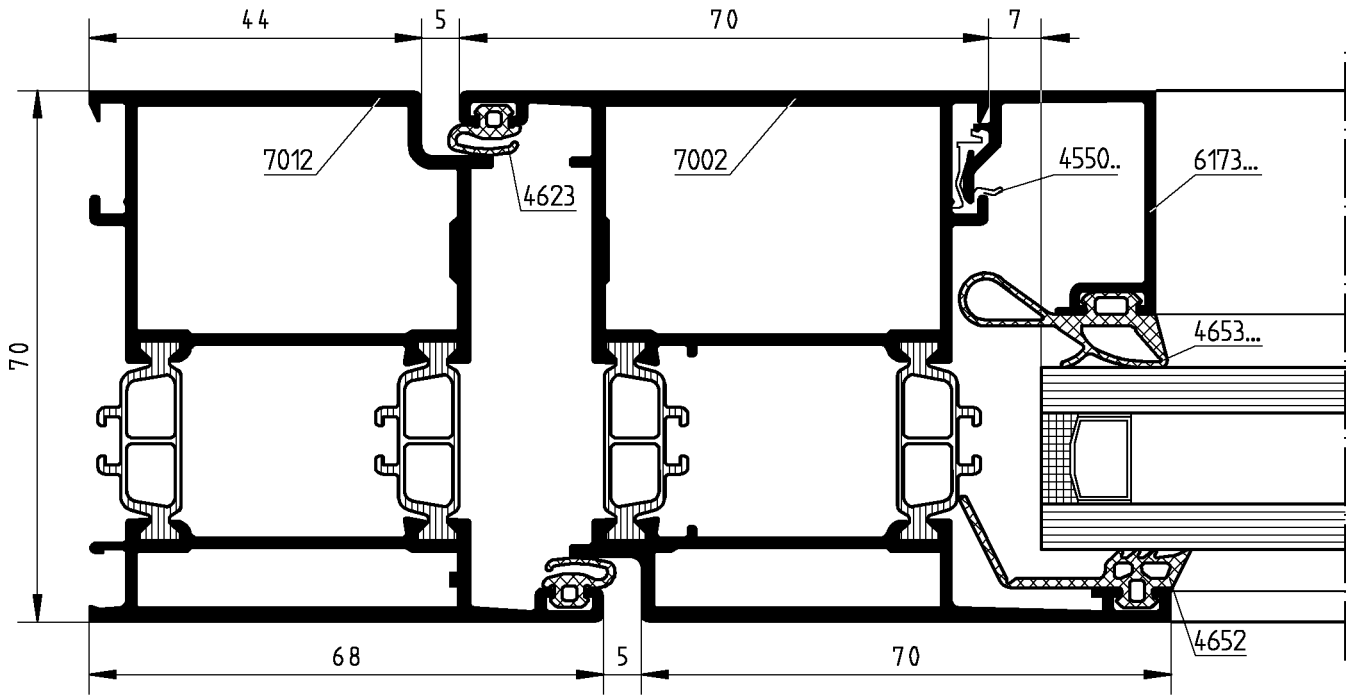
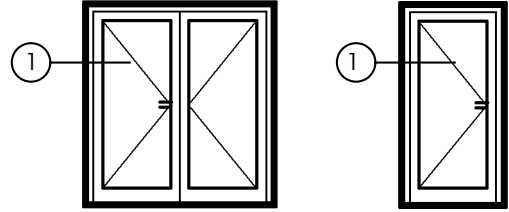


by

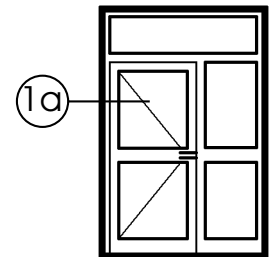




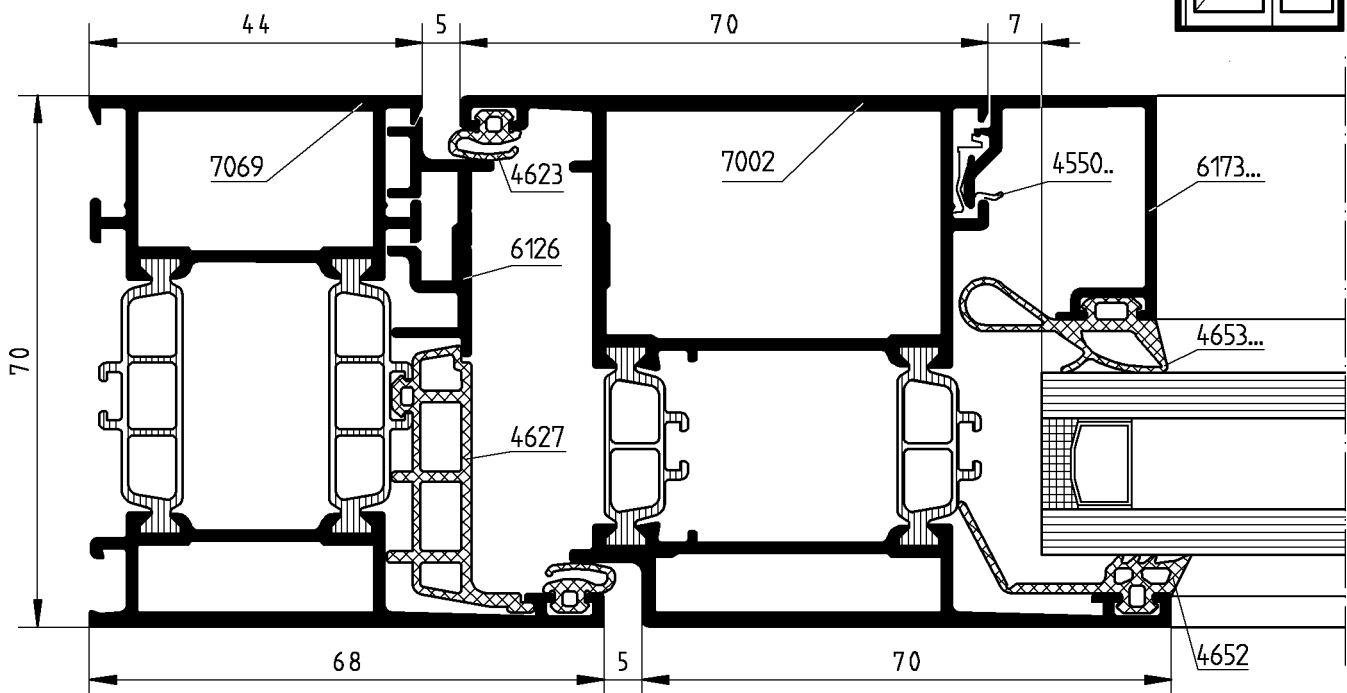
Inside opening

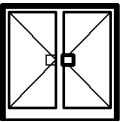


Section : ①

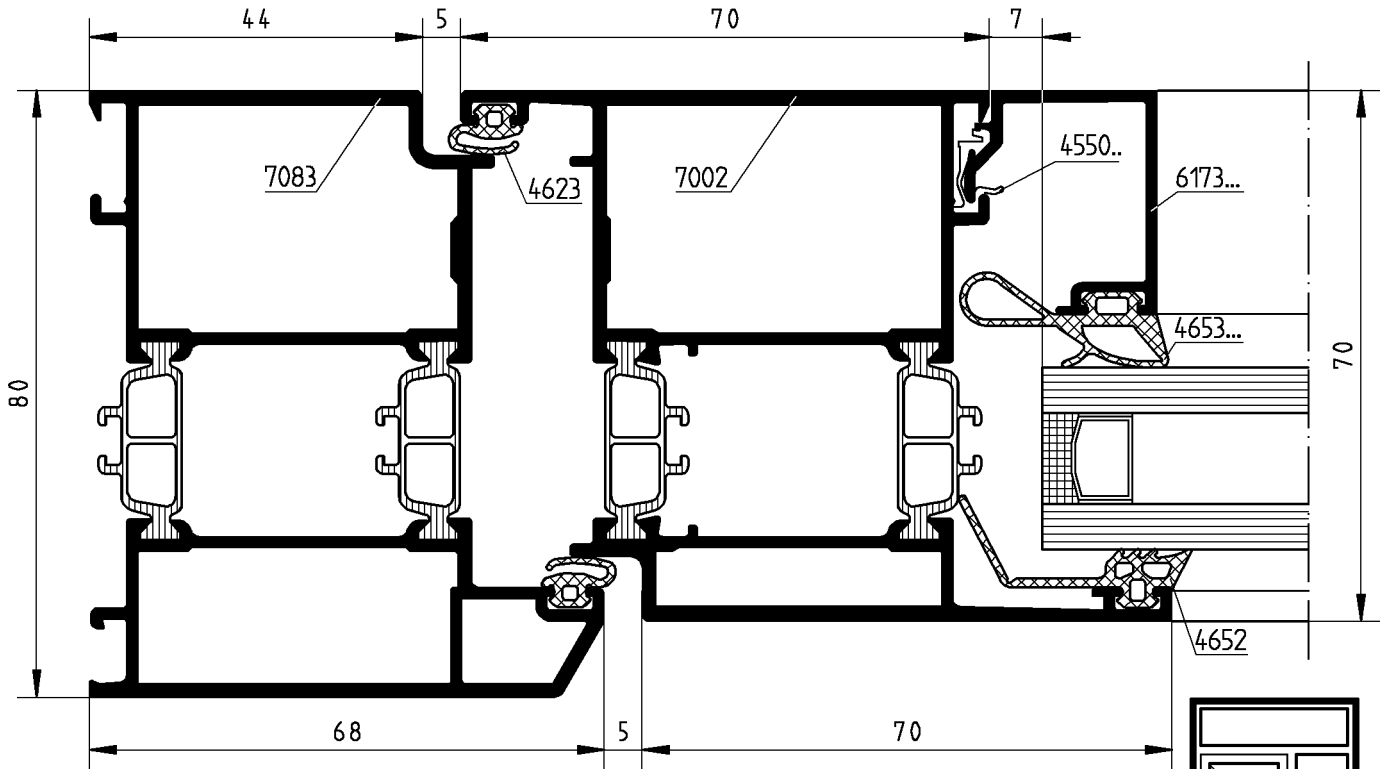
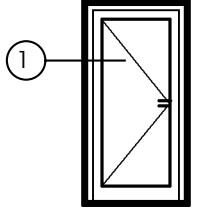


Section : ①a



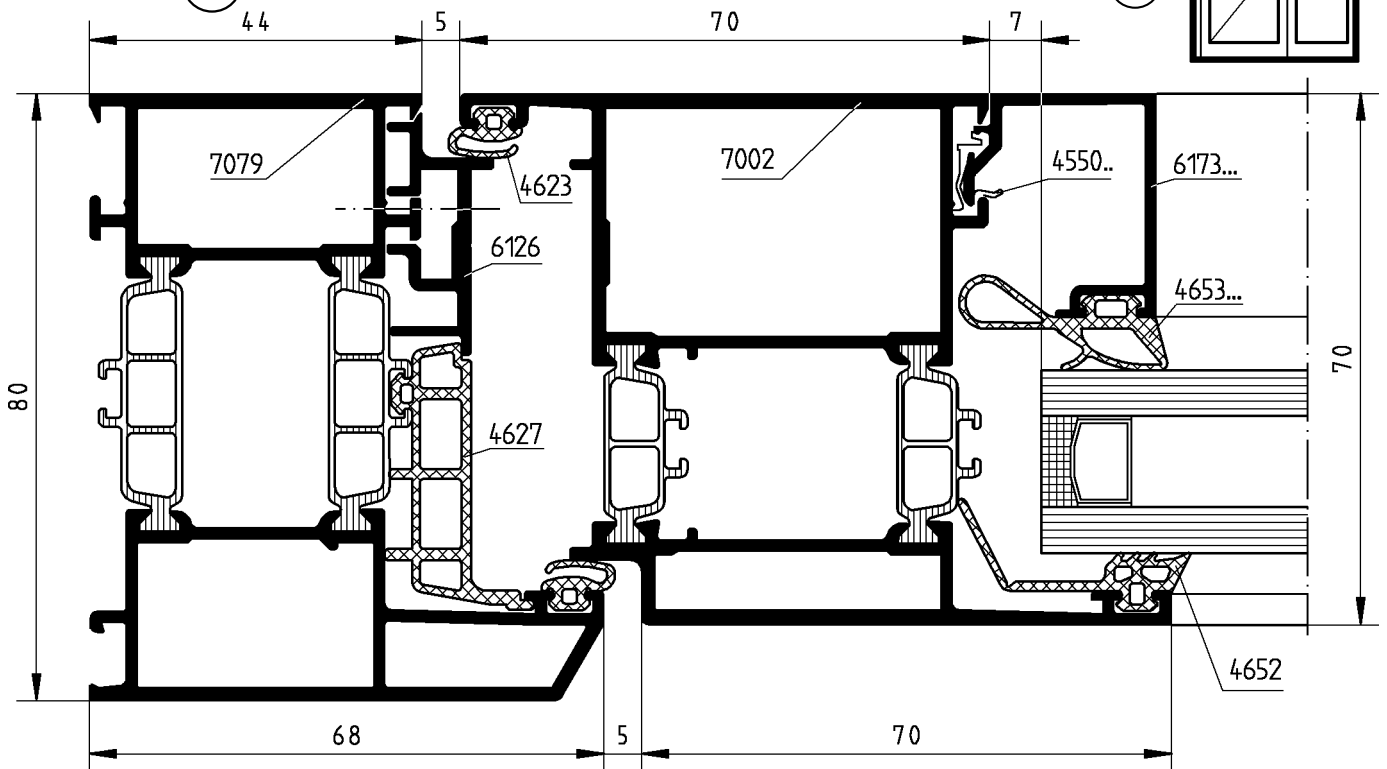
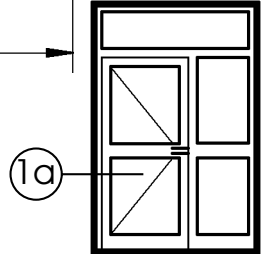


Inside opening

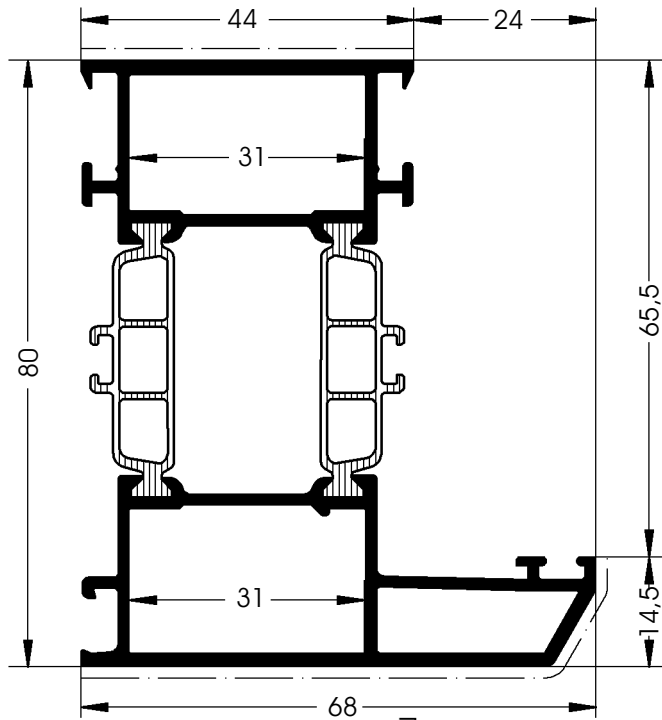
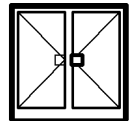


Section : ①

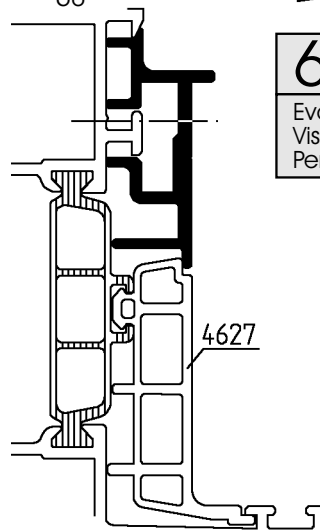
Section : ①a



040917

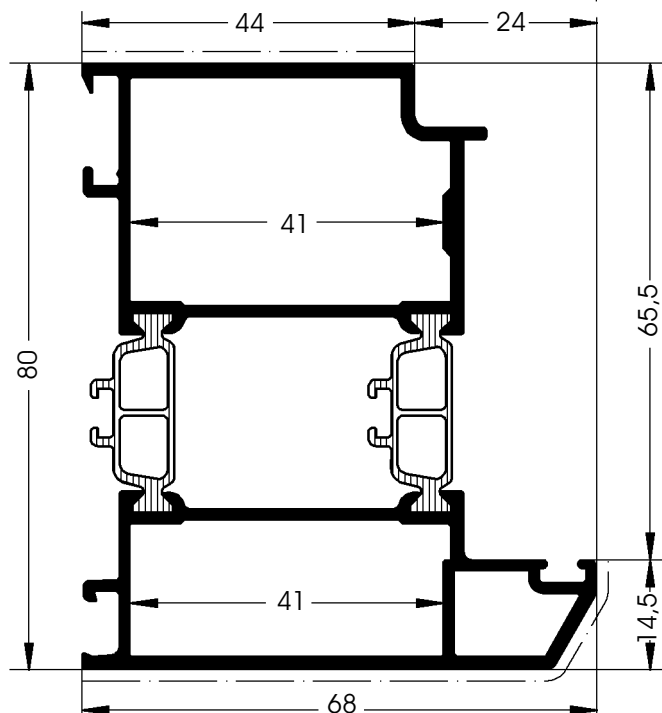
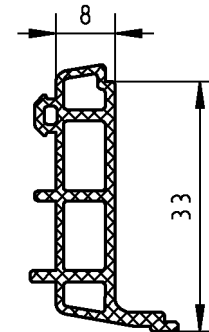


7079	Inside Profile	Outside Profile
Evolute: (mm)		
Visible width: 117	44	73
Perimeter: 330	197	228
PE / NE-Corner joint	7505	7505
Glass Support	4629 35	
T-Joint for attachment on ground rail 6120:	7553	

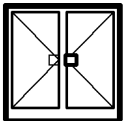


6126	(mm)
Evolute:	
Visible width:	145
Perimeter:	

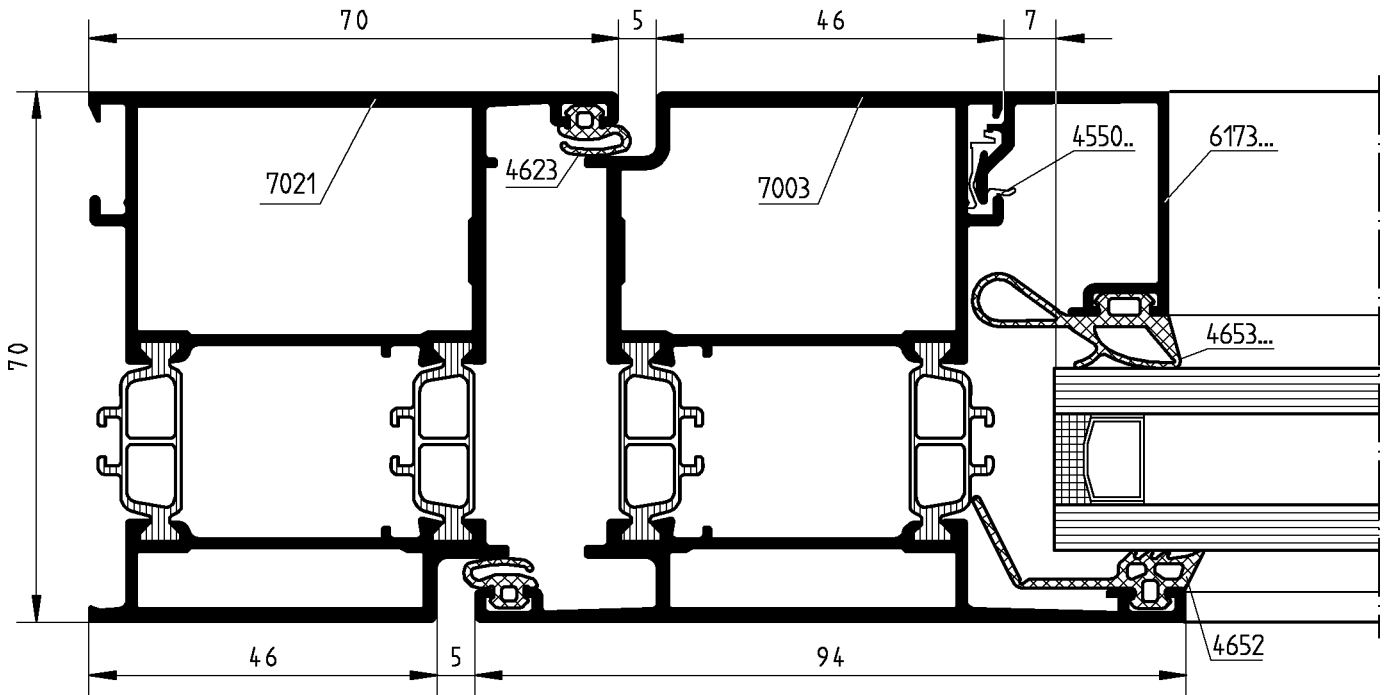
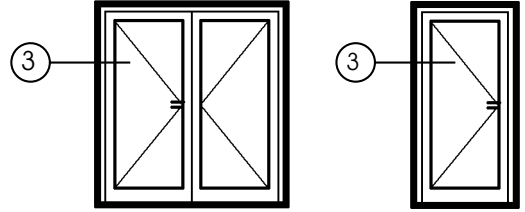
4627
Door fold gasket
of EPDM,
black
O.U. = 40 m



7083	Inside Profile	Outside Profile
Evolute: (mm)		
Visible width: 116	43	73
Perimeter: 311	213	217
PE-Joint	7545	7559 10
NE-Joint	7545 10	7559 10
Pin for NE-Joint:	5500	5500
T-Joint for attachment on ground rail 6120:	7554 10	

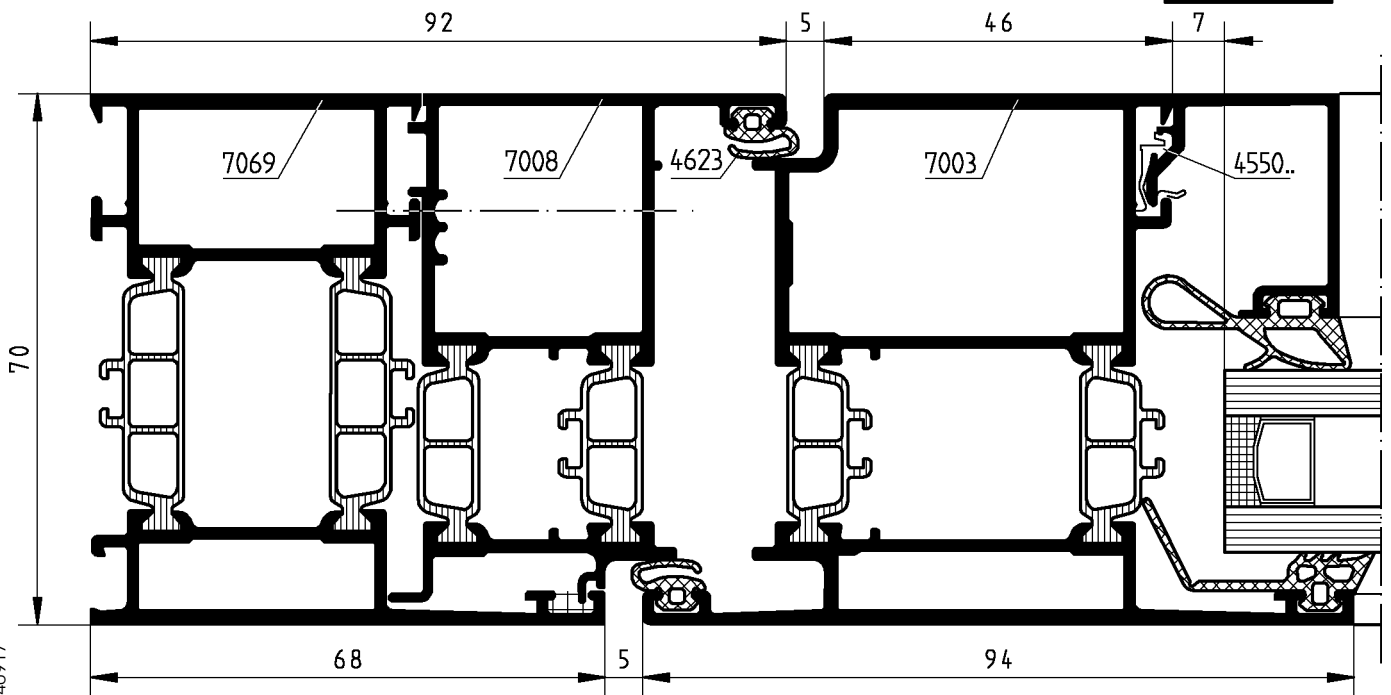
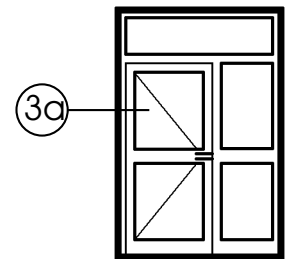


Outside opening

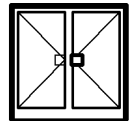


Section : (3)

Section : (3a)

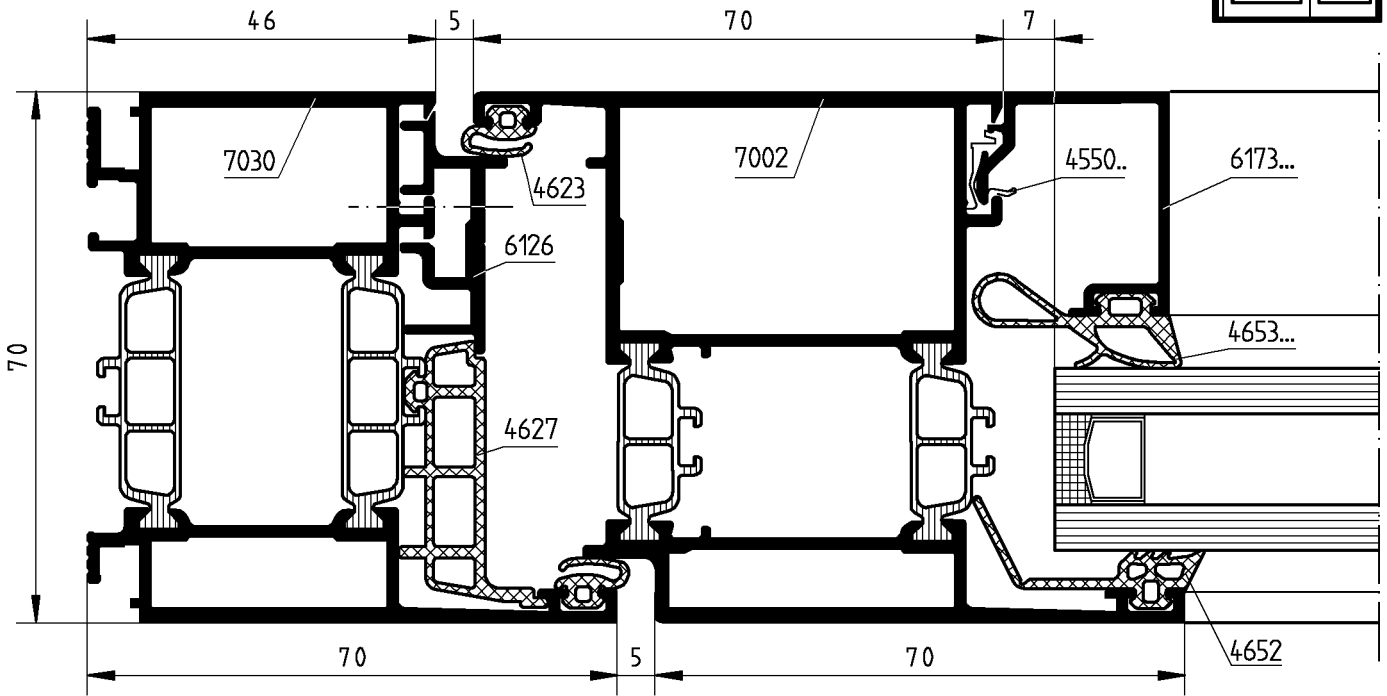


040917



1b

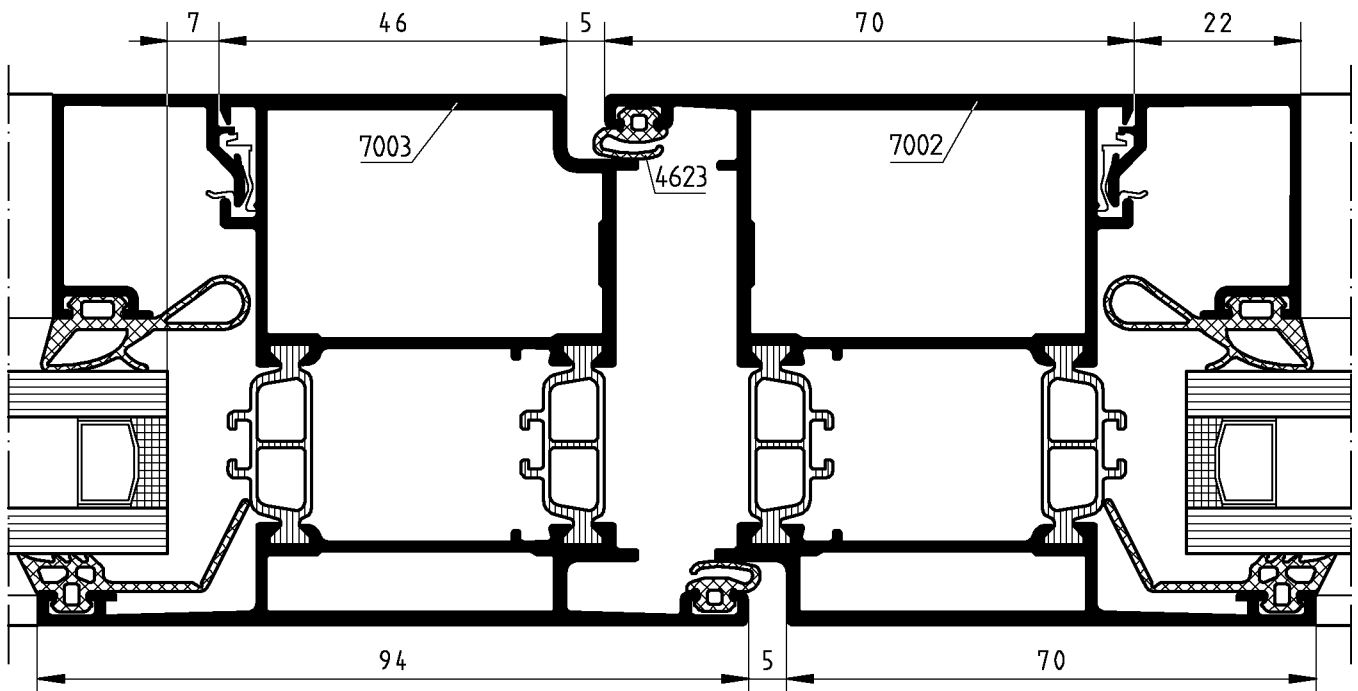
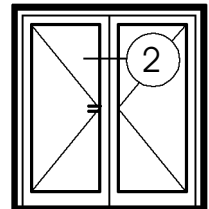
Inside opening

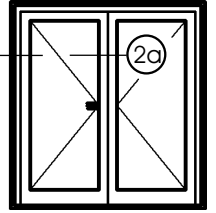
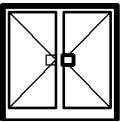


Section : 1b

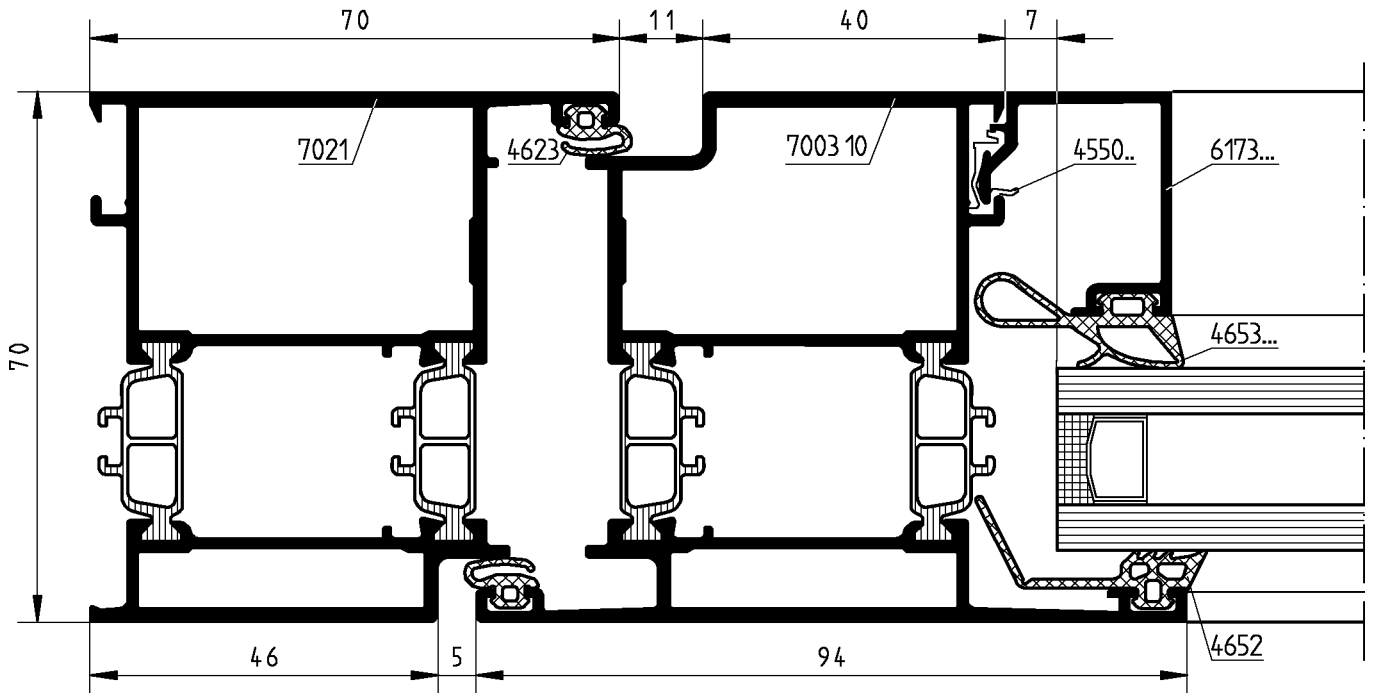
Section : 2

Inside, outside and
left-right circulation

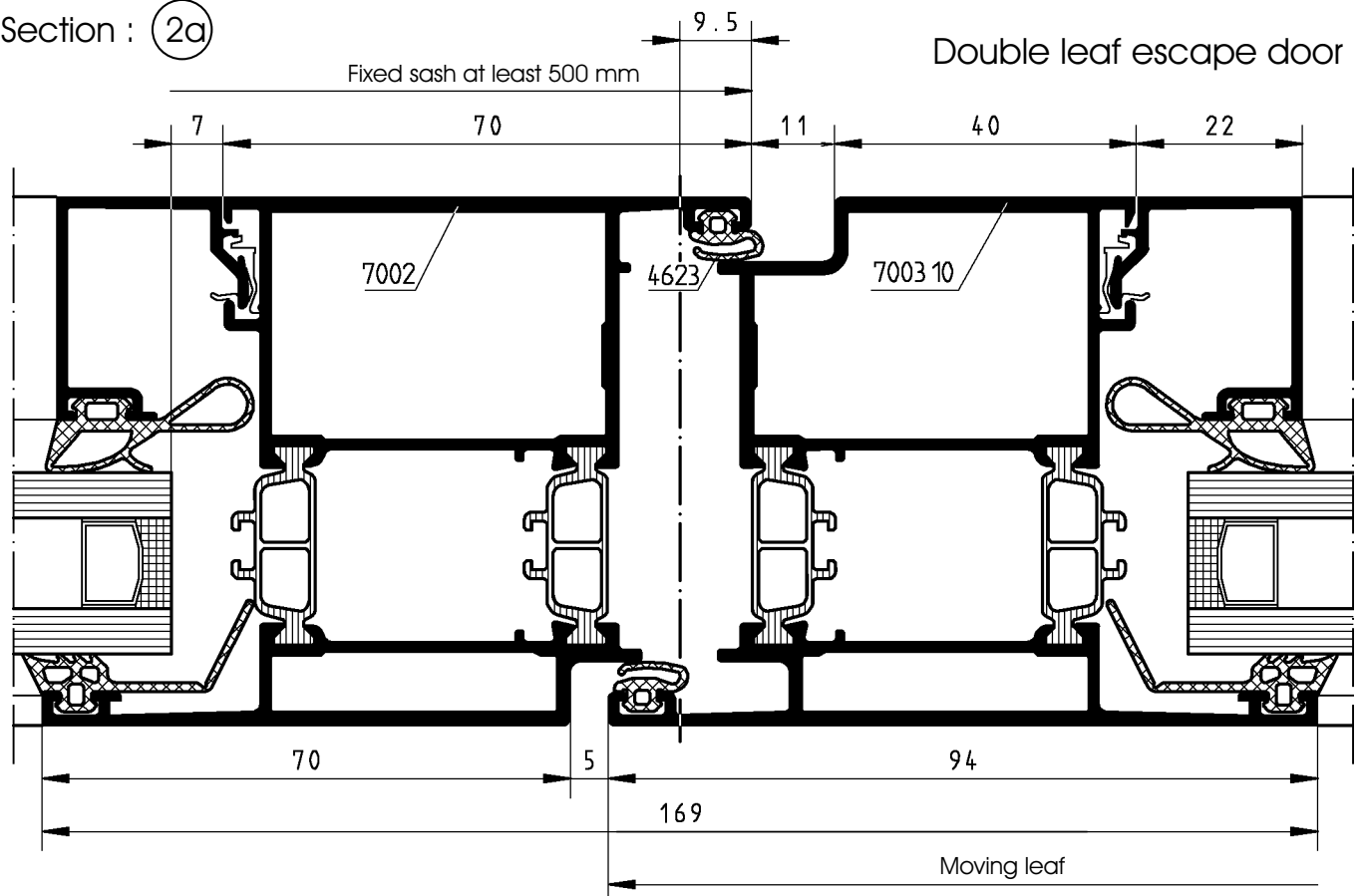


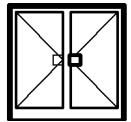


Section : (3b)

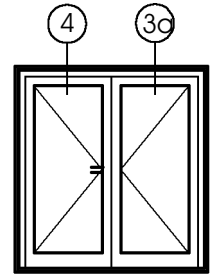


Section : (2a)

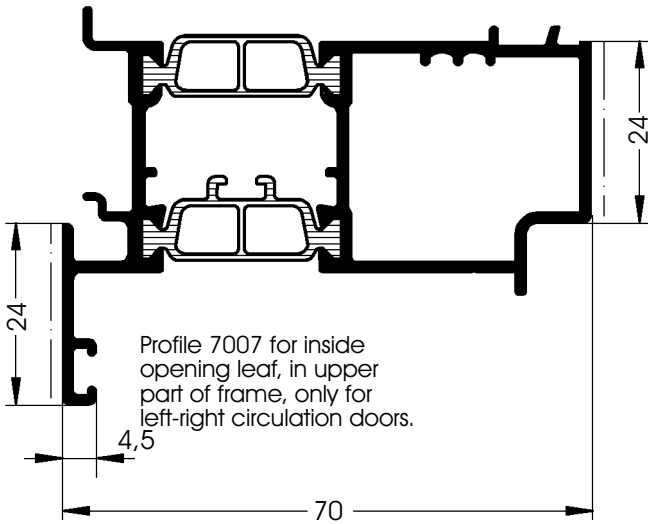
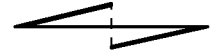




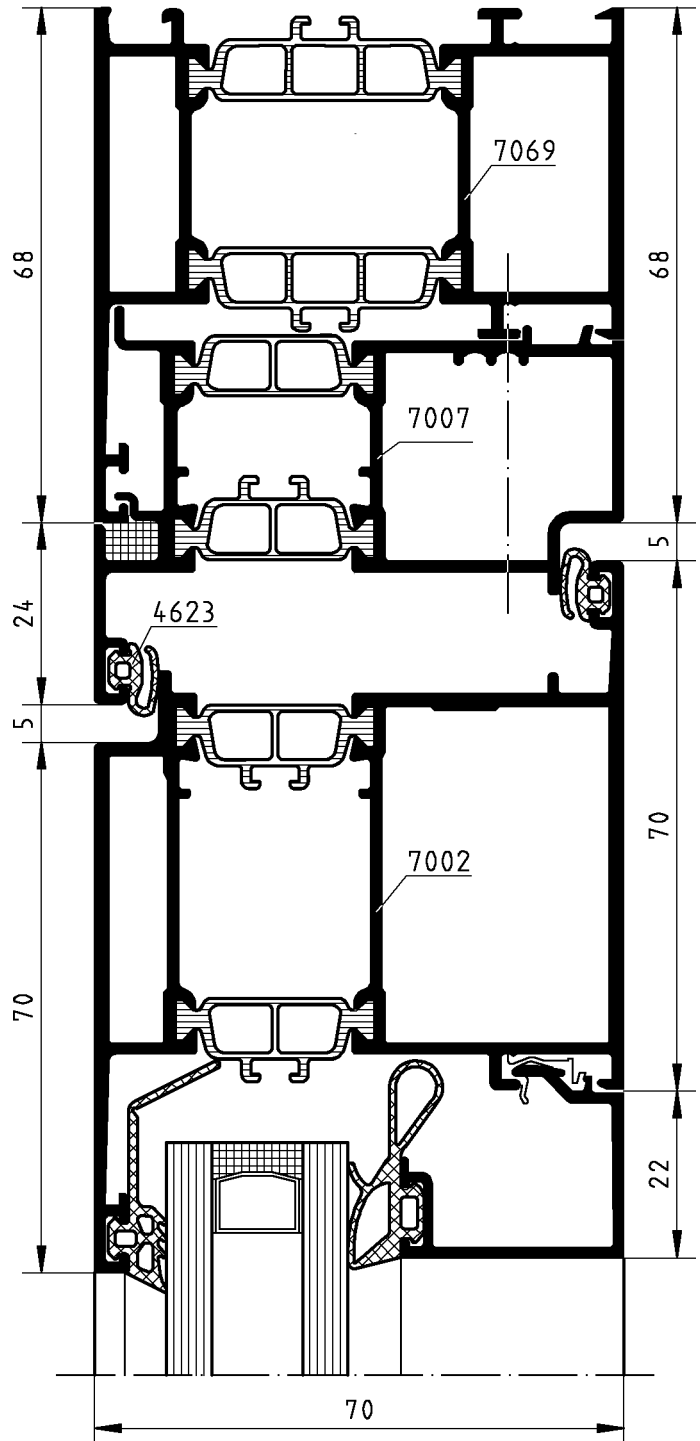
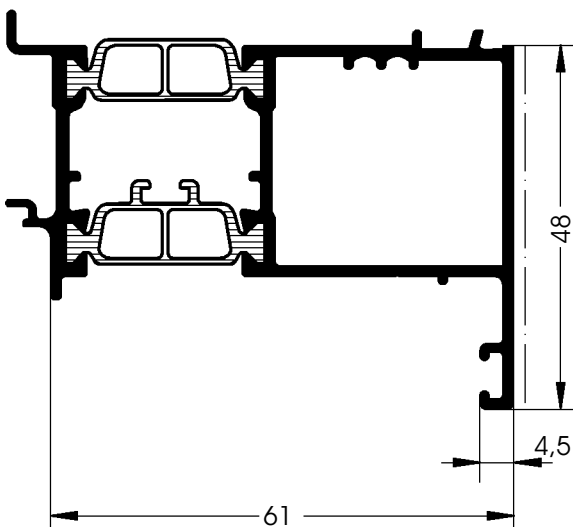
7007	Inside Profile	Outside Profile
Evolute: (mm)		
Visible width: 46	23	23
Perimeter: 273	169	202

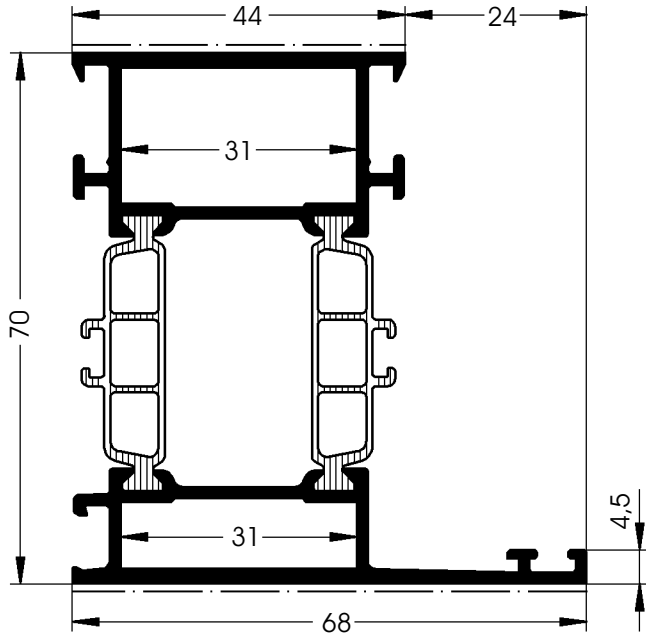
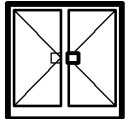


Section : ④

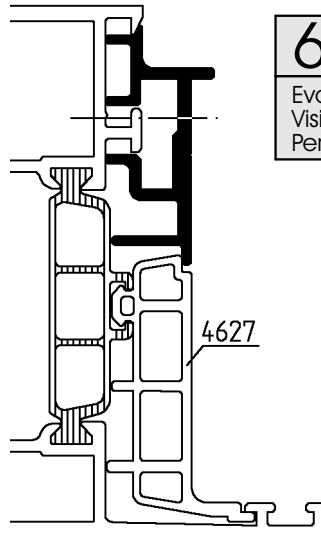


7008	Inside Profile	Outside Profile
Evolute: (mm)		
Visible width: 47	47	135
Perimeter: 252	214	135





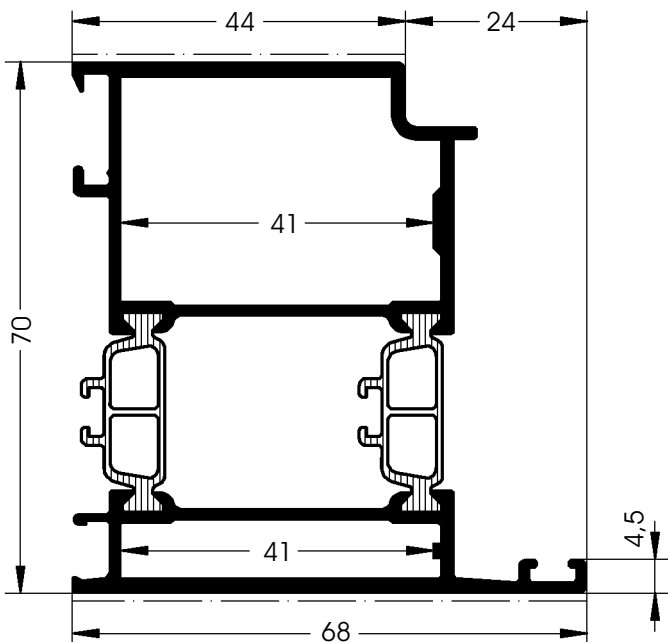
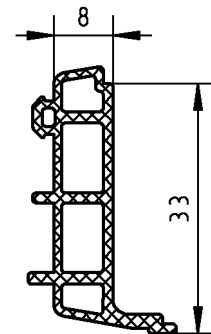
7069	Inside Profile	Outside Profile
Evolute: (mm)		
Visible width: 112	44	68
Perimeter: 314	197	212
PE / NE-Corner joint	7505	7506
T-Joint	7529	7530
Pin for NE / T-Joint:	5500	5500
Buffer	4629 35	
T-Joint Attachment on ground rail 6120:	7553	



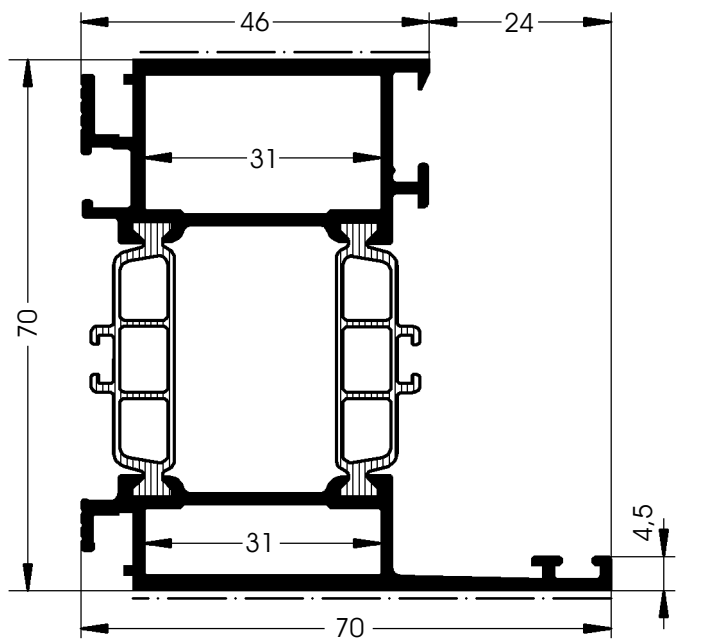
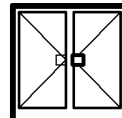
6126	
Evolute: (mm)	
Visible width: 145	
Perimeter: 145	

4627

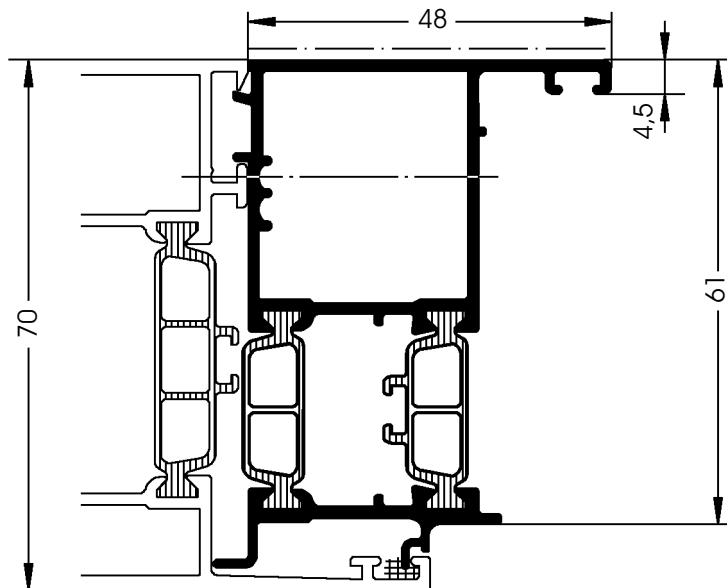
Gasket of EPDM, black
O.U. = 40 m



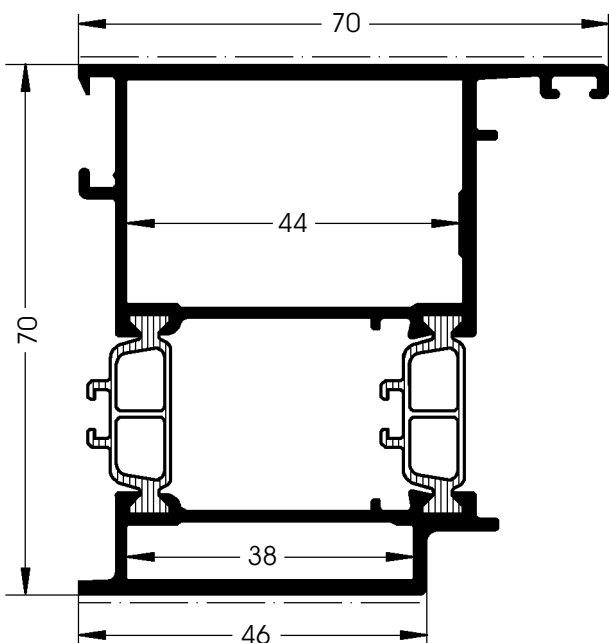
7012	Inside Profile	Outside Profile
Evolute: (mm)		
Visible width: 110	43	67
Perimeter: 298	213	214
PE-Joint	7545	7559
NE-Joint	7545 10	7559
Pin for NE / T-Joint:	5500	5500
Buffer	4629 35	
T-Joint Attachment on ground rail 6120:	7554 10	



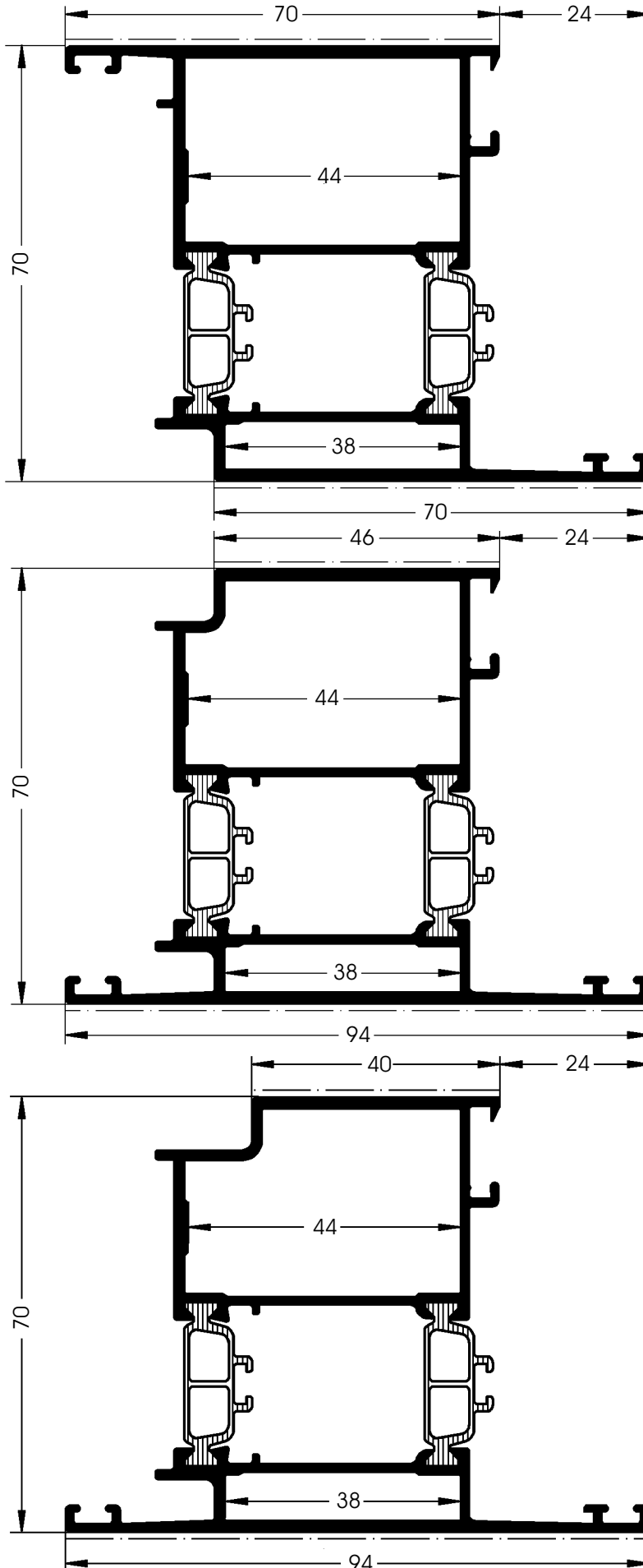
7030	Inside Profile	Outside Profile
Evolute: (mm)		
Visible width: 102	39	63
Perimeter: 335	215	219
PE / NE-Corner joint	7505	7506
T-Joint	7529	7530
Pin for NE / T-Joint:	5500	5500
Buffer	4629 38	
T-Joint Attachment on ground rail 6120:	7553	



7008	Inside Profile	Outside Profile
Evolute: (mm)		
Visible width: 47	47	135
Perimeter: 252	214	



7021	Inside Profile	Outside Profile
Evolute: (mm)		
Visible width: 113	69	45
Perimeter: 297	267	159
PE / NE-Corner joint	7546	7547
Pin for NE / T-Joint:	5500	5500
T-Joint Attachment on ground rail 6120:	7555	



7002	Inside Profile	Outside Profile
Evolute: (mm)		
Visible width: 138	69	69
Perimeter: 364	269	224
PE / NE-Corner joint	7546	7547
Pin for NE	5500	5500

Pre/Pin Joint with hole for the guide	Fixed sash DIN right	Fixed sash DIN left
Alternative opening	7550 20	7550 30
Double leaf door		
Inside opening	7550 30	7550 20
Outside opening	7550 20	7550 30

7003	Inside Profile	Outside Profile
Evolute: (mm)		
Visible width: 138	45	93
Perimeter: 377	221	285
PE / NE-Corner joint	7550	7547
Pin for NE	5500	5500
PE / NE-Joint for Profile 7003 as frame	7551	7547

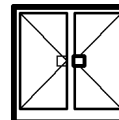
Pre/Pin Joint with hole for the guide	Fixed sash DIN right	Fixed sash DIN left
Alternative opening door	7550 20	7550 30
Double leaf door		
Inside opening	7550 30	7550 20
Outside opening	7550 20	7550 30

Sash profile for double leaf panic door

7003 10	Inside Profile	Outside Profile
Evolute: (mm)		
Visible width: 132	39	93
Perimeter: 377	221	285
PE / NE-Corner joint	7550	7547
Pin for NE	5500	5500

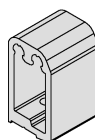
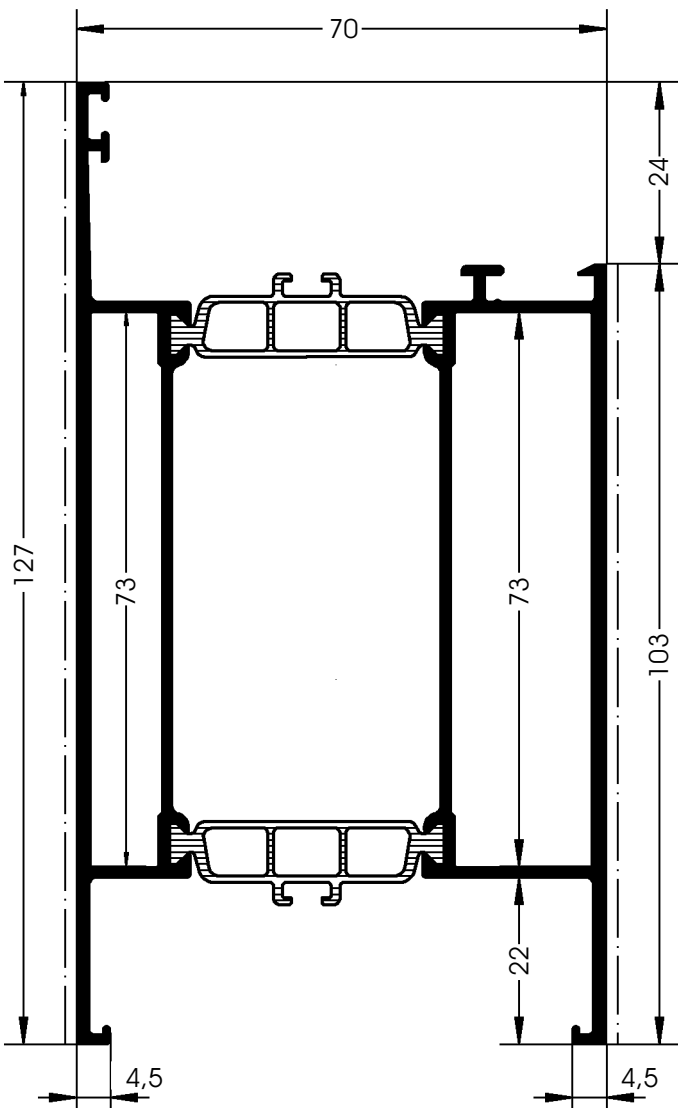
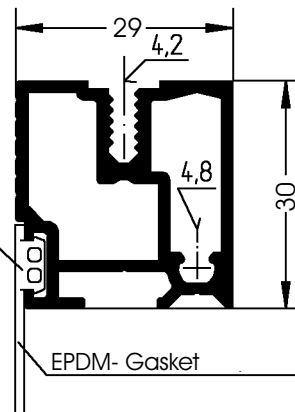
PE / NE Joint with hole for the guide	Right DIN RS	Left DIN LS
Double leaf door		
Outside opening	7550 20	7550 30

040917



7004	Inside Profile	Outside Profile
Evolute: (mm)		
Visible width: 230	103	127
Perimeter: 469	299	325
T-Joint	7556	7557
Pin for T-joint	5500	5500
Buffer:	4629 77	

6120	Inside Profile	Outside Profile
Evolute: (mm)		
Visible width: 230	103	127
Perimeter: 469	299	325



7553

T - Joint
for fixing of 6120
by 7030, 7069
O.U. = 1 piece

7554

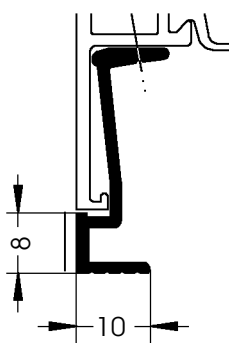
like previous
but by frame 7070

7554 10

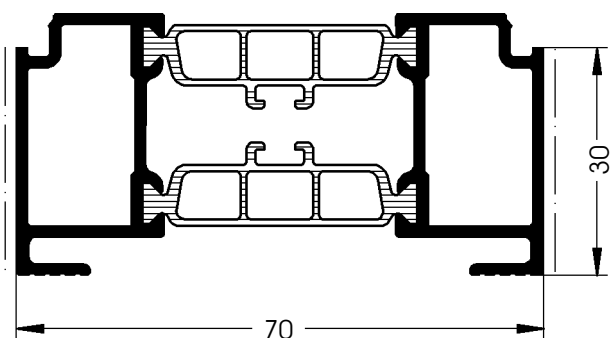
like previous
but by frame 7012

7555

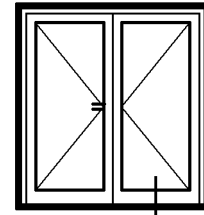
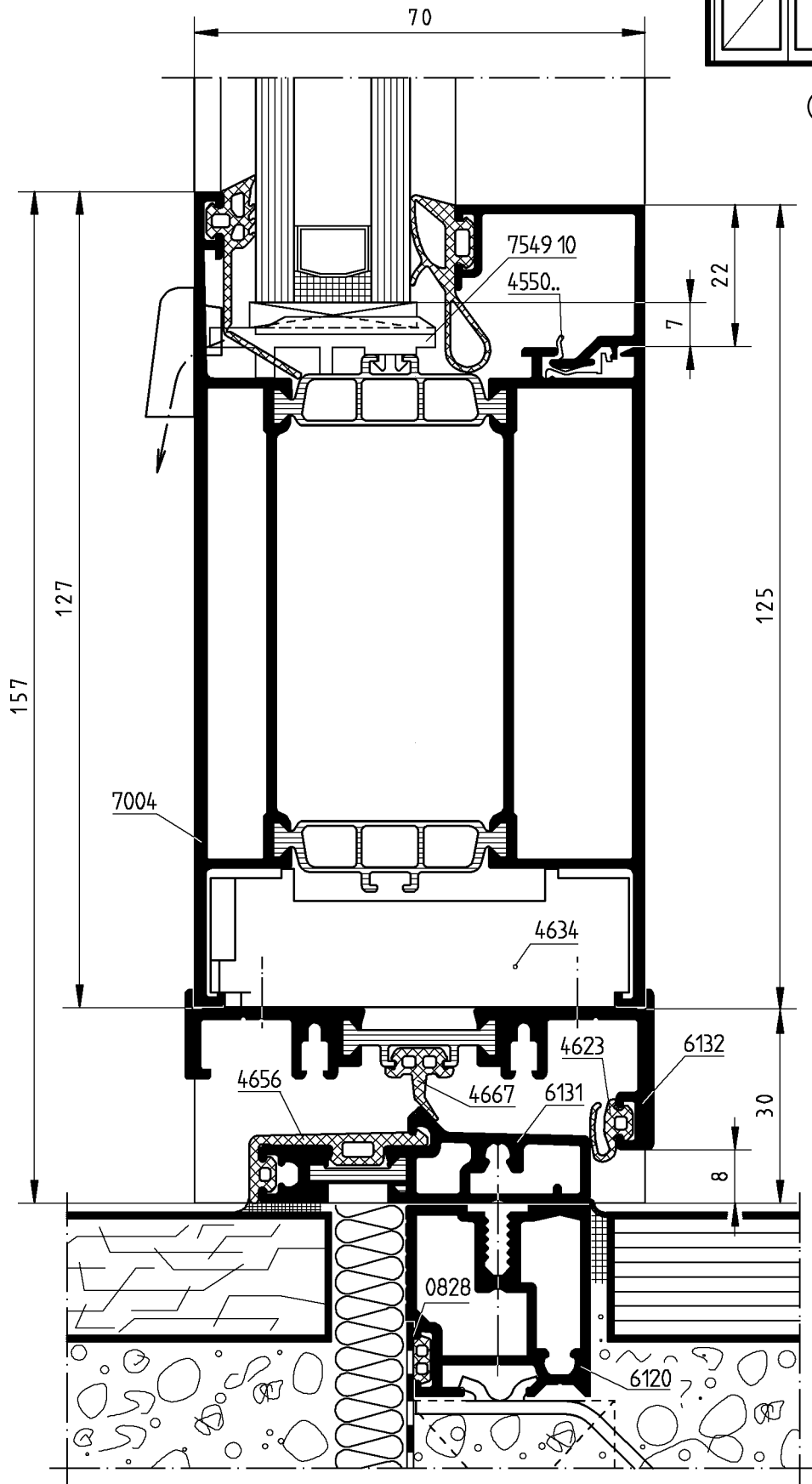
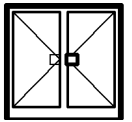
like previous
but by frame 7021



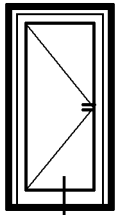
6122 10	Inside Profile	Outside Profile
Evolute: (mm)		
Visible width: 8	30	30
Perimeter: 104	144	144



7014	Inside profile	Outside profile
Evolute: (mm)		
Visible width: 60	30	30
Perimeter: 202	144	144



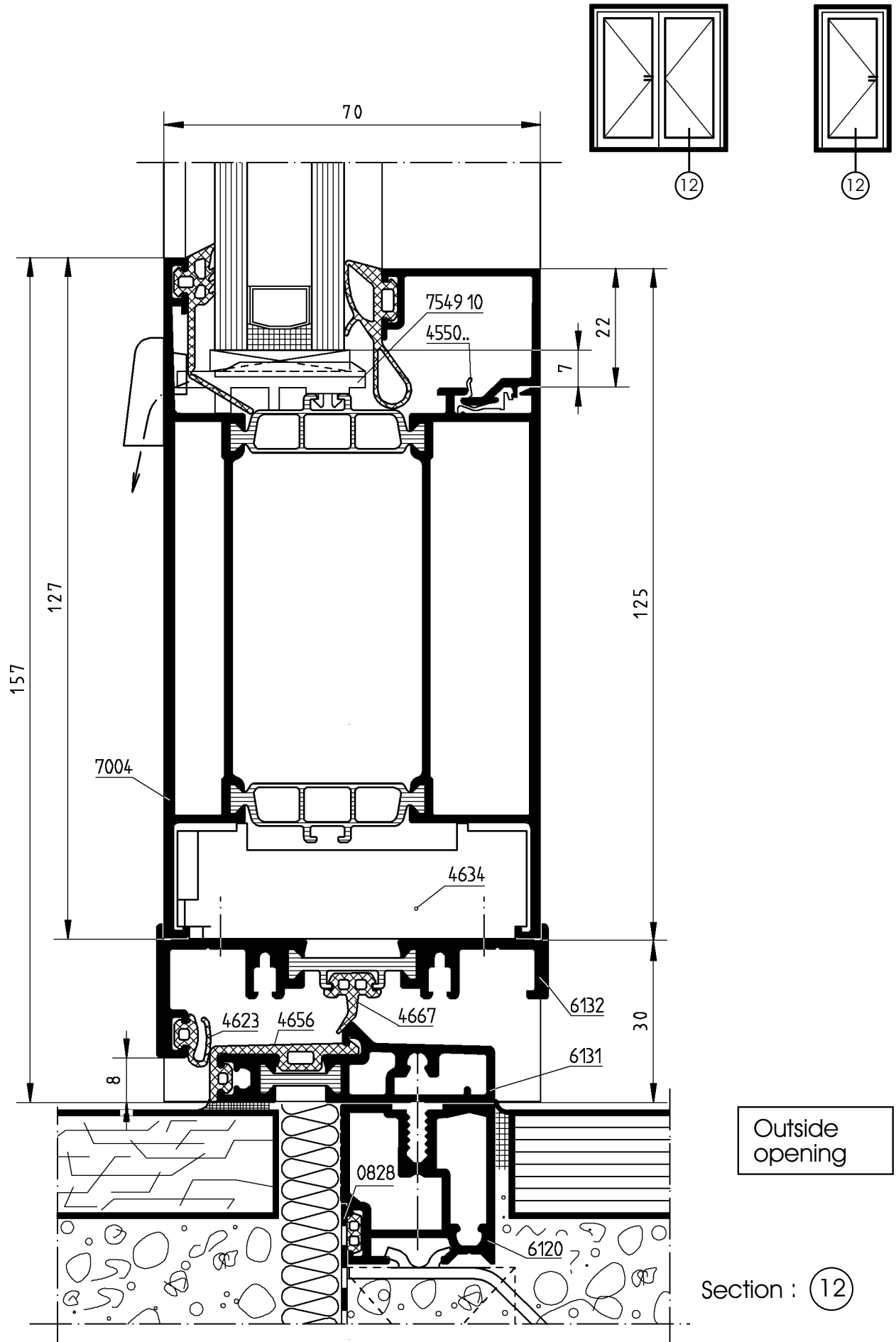
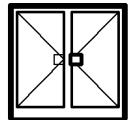
11

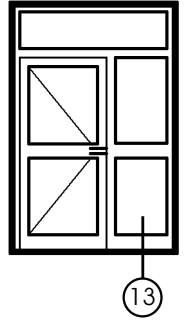
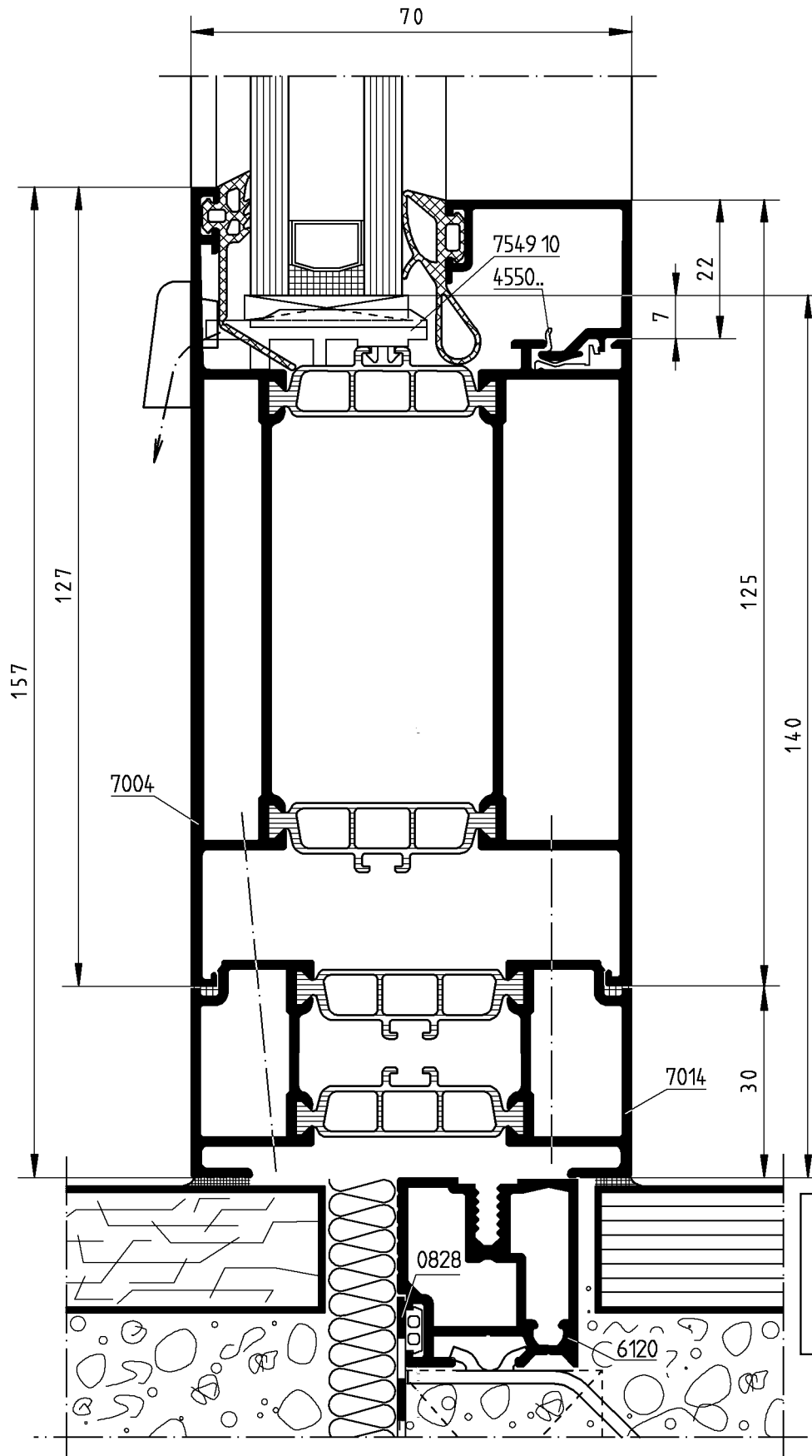
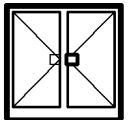


11

Inside opening

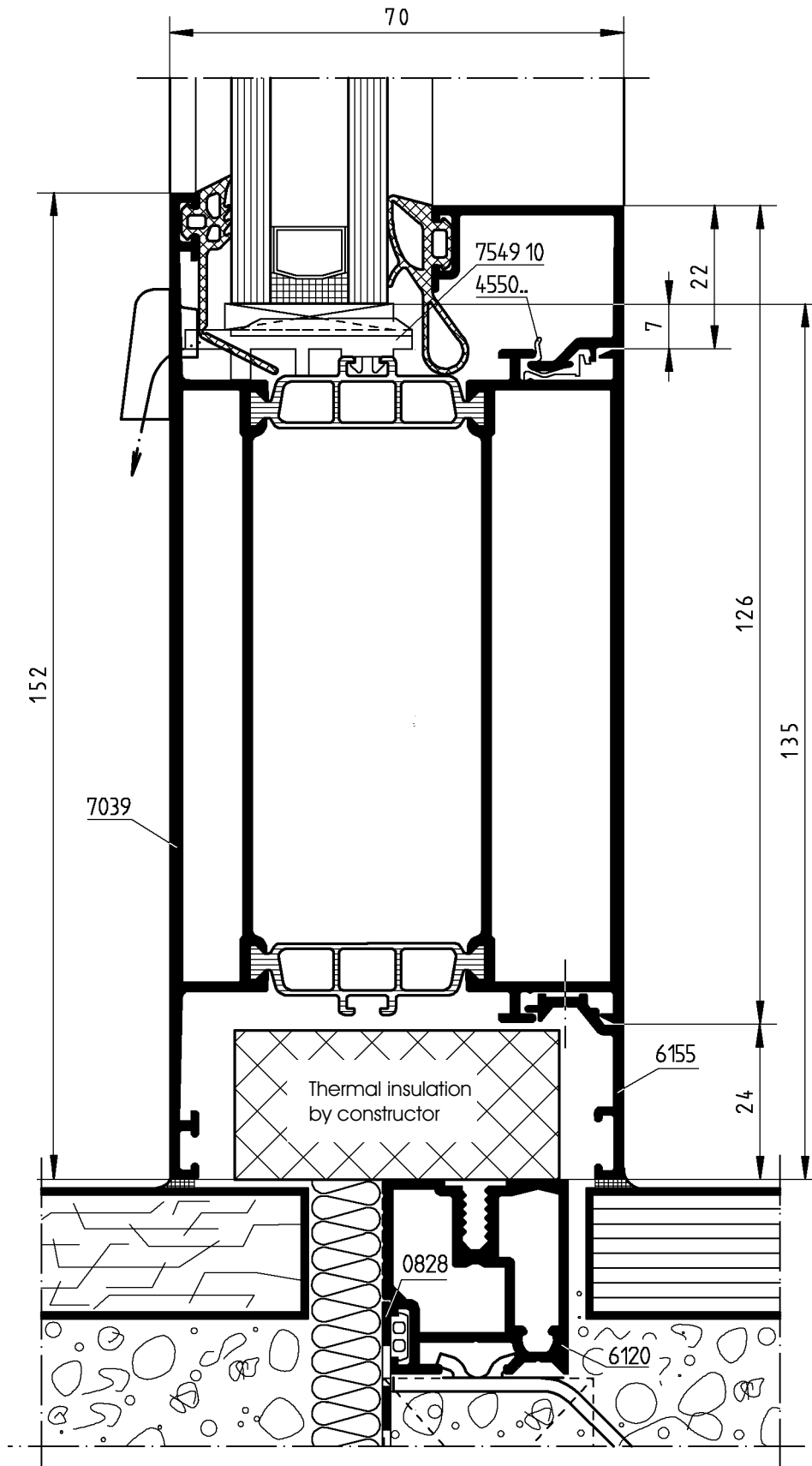
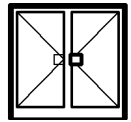
Section : 11





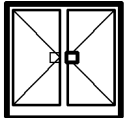
Assembled with mullion profile 7004 and additional profile 7014

Section : 13

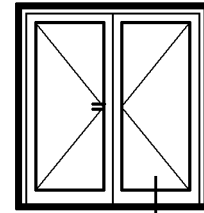
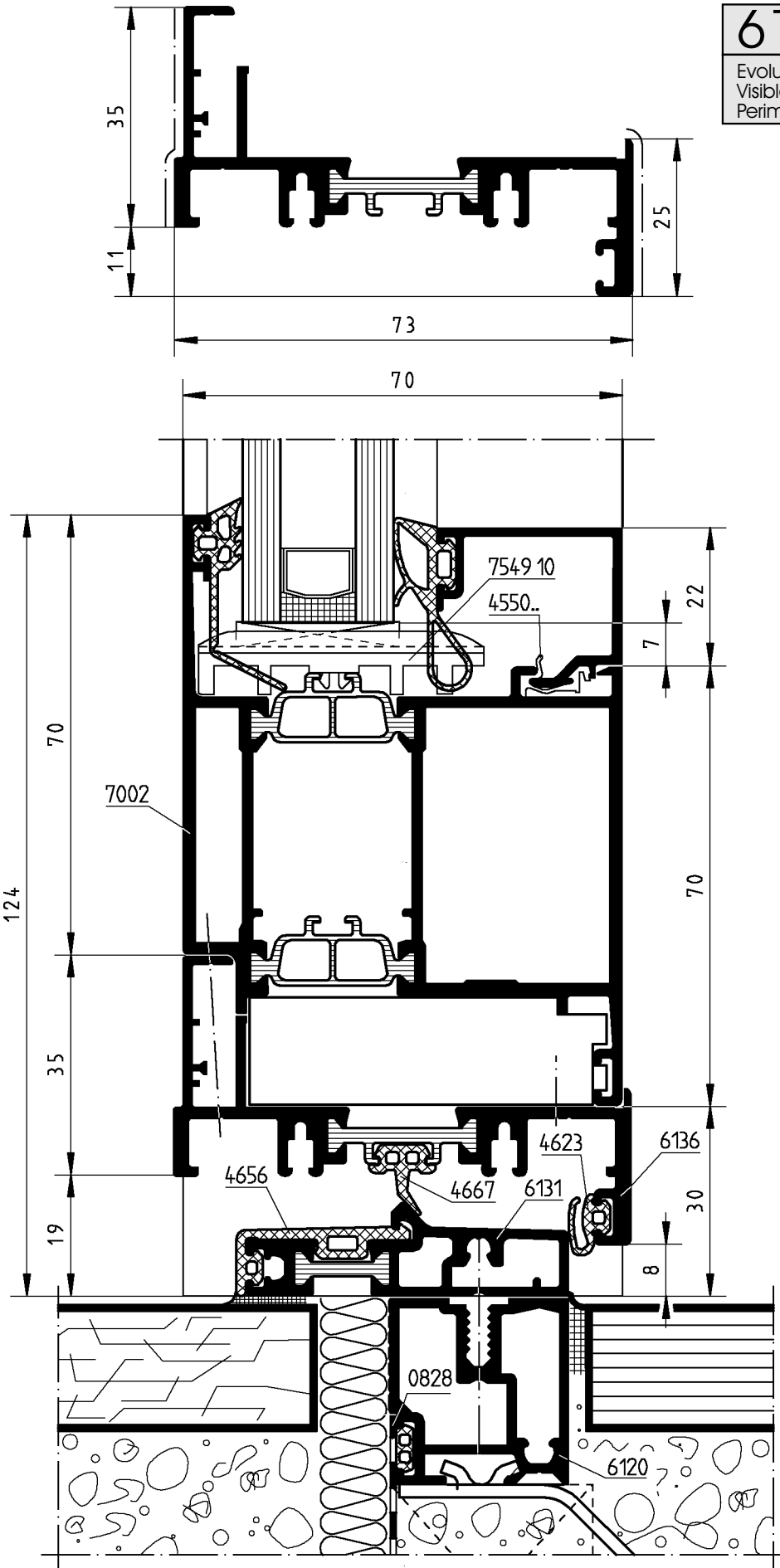


Assembled with mullion profile 7039

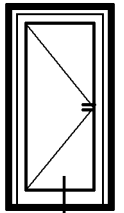
Section: 8



6136		Inside Profile	Outside Profile
Evolute:	(mm)		
Visible width:	57	23	34
Perimeter:	364	168	224



11c

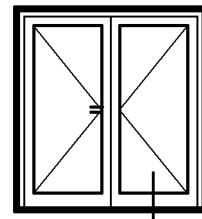
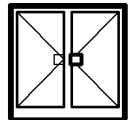


11c

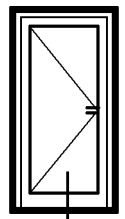
Inside opening

Section : 11a

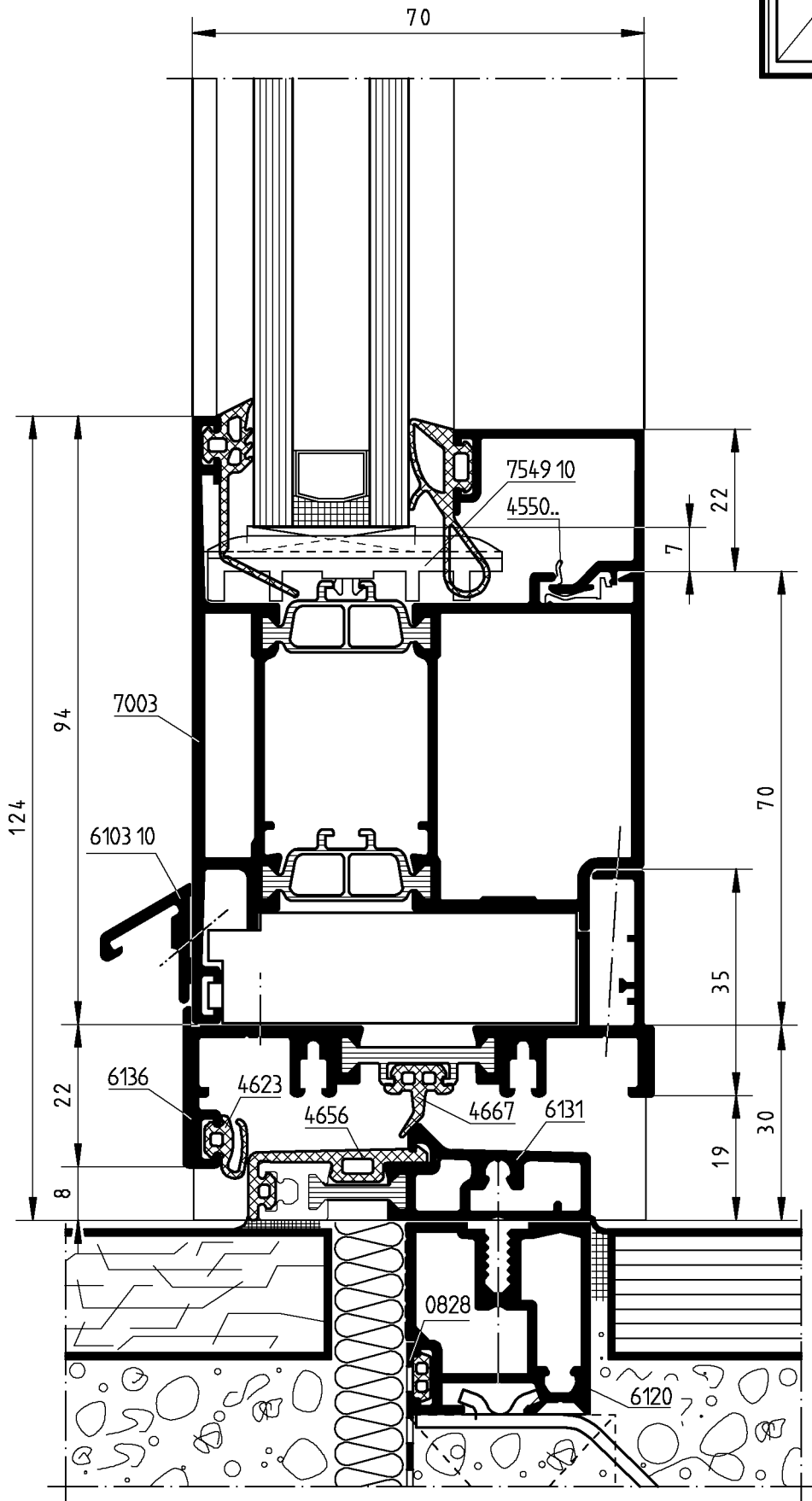
050218



11b

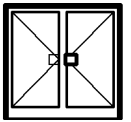


11b



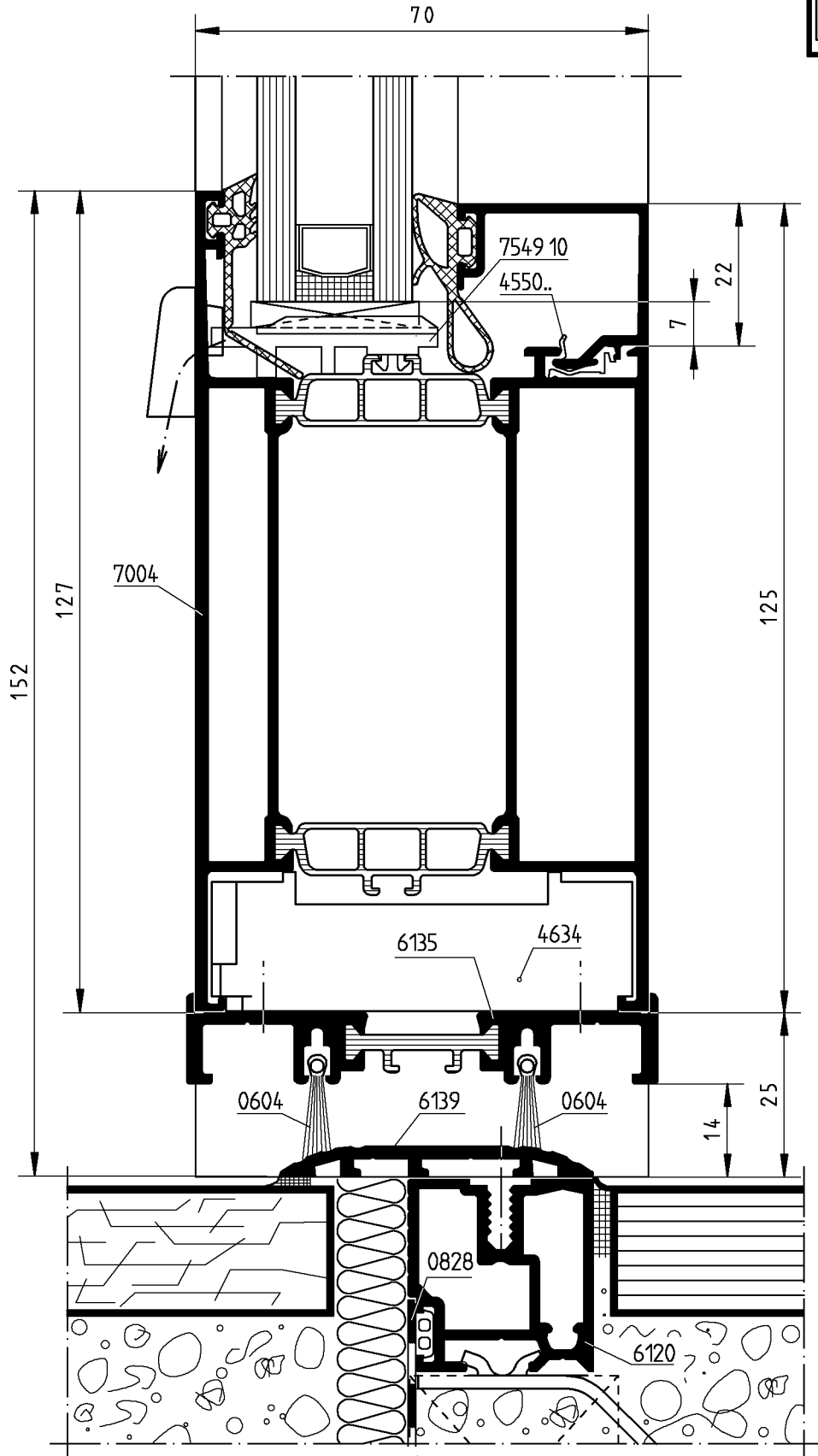
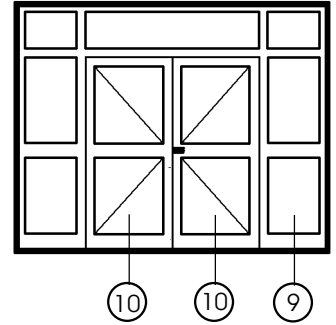
Outside opening

Section : 11b

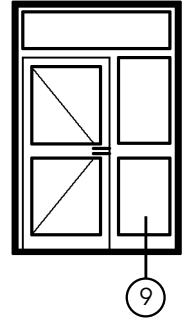
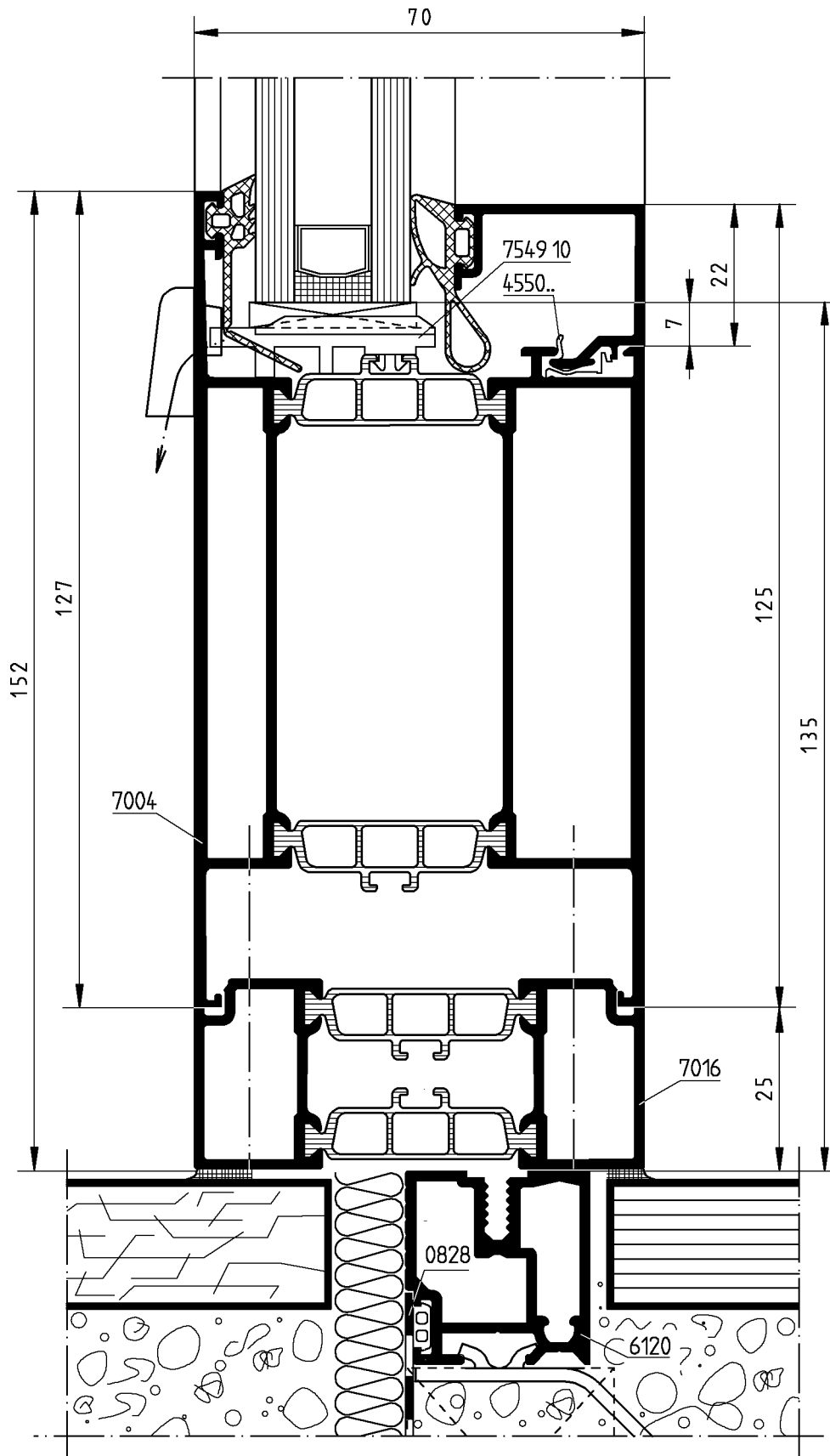
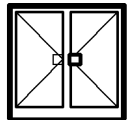


Section : (10)

To be placed only in rain protected places

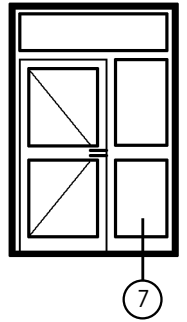
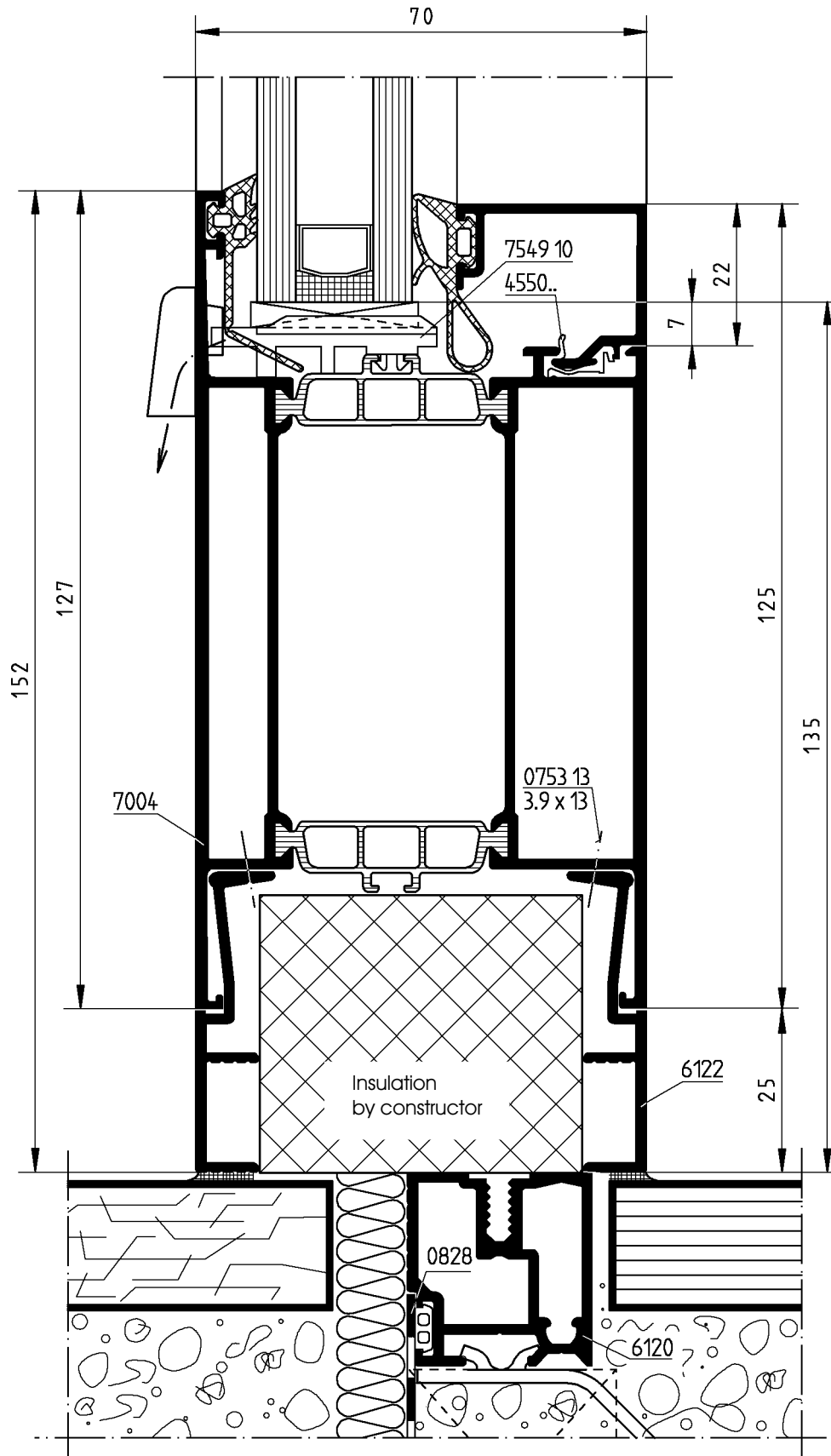
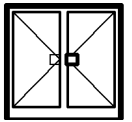


Inside or
outside
opening



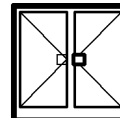
Assembled
with mullion
profile 7004
and additional
profile 7016

Section : 9

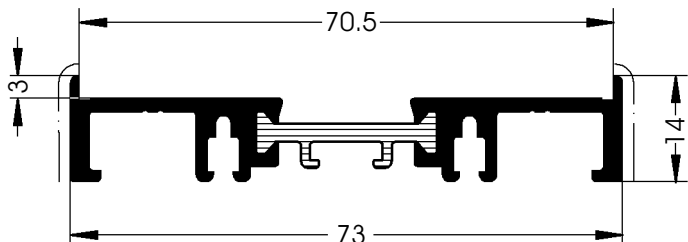


Assembled
with mullion
profile 7004

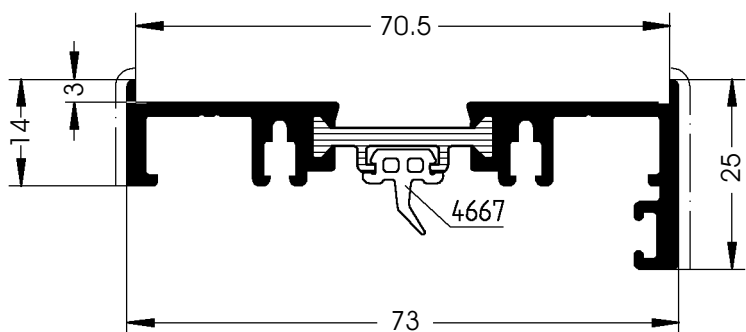
Section : 7



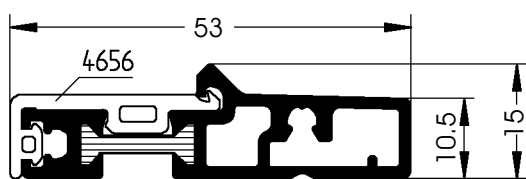
6135	Inside Profile	Outside Profile
Evolute: (mm)		
Visible width: 24	12	12
Perimeter: 236	132	132



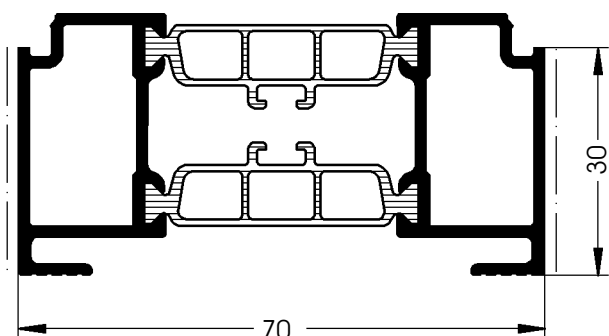
6132	Inside Profile	Outside Profile
Evolute: (mm)		
Visible width: 35	23	12
Perimeter: 268	168	132



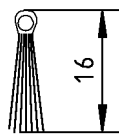
6131	Evolute: (mm)	4635
Visible width: 142		Synthetic-Threshold end piece
Perimeter: 142		O.U. = 5 Pair



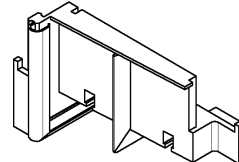
7014	Inside Profile	Outside Profile
Evolute: (mm)		
Visible width: 60	30	30
Perimeter: 202	144	144



0604
Brush
Colour: black
Length 1 m
O.U. = 1 piece



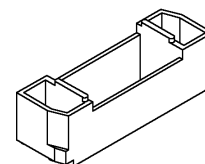
4633
Plug
for profile 6132 and 6135, of EPDM
Colour: black
O.U. = 5 Pairs



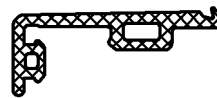
4667
Gasket
of EPDM
Colour: black
O.U. = 50 m



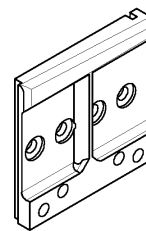
4634
Supporting piece
for additional profile 6132 and 6135
Colour: black
O.U. = 10 piece



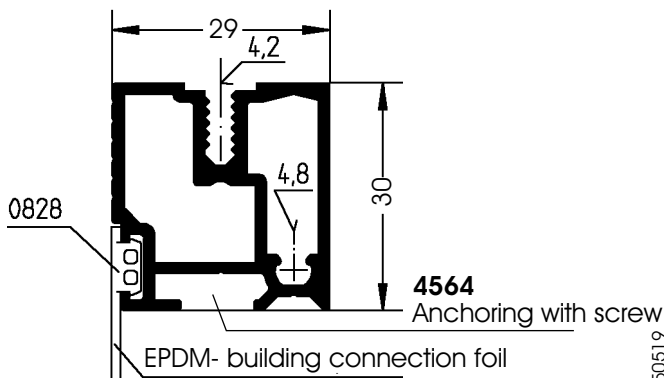
4656
Threshold gasket
of EPDM
Colour: black
O.U. = 40 m

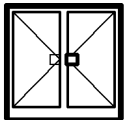


4635
Synthetic-Threshold end piece
for thresholds 6121 and 6131
Colour: black
O.U. = 5 Pair

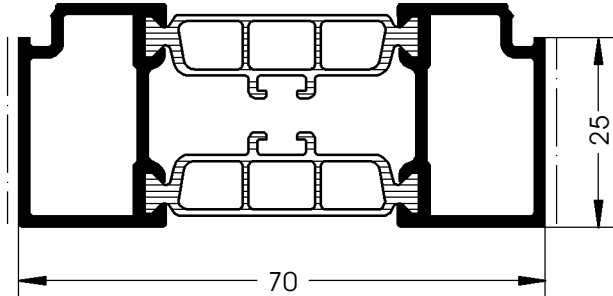


6120	Evolute: (mm)	
Visible width: 172		
Perimeter: 172		



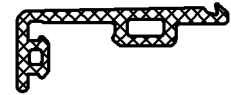


7016	Inside Profile	Outside Profile
Evolute: (mm)	25	25
Visible width: 50	119	119
Perimeter: 151		



4656

Gasket for threshold
of EPDM
Colour: black
O.U. = 40 m



4623

Gasket
of EPDM
Colour: black
O.U. = 100 m



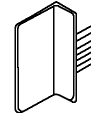
4610 10

Synthetic-Drainage
plug
for weather
Colour: black
O.U. = 5 Pairs



3658 04

Synthetic-End piece
Right
Colour: white
O.U. = 10 pieces

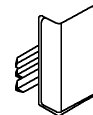


3658 05

like previous, but black

3659 04

Synthetic-End piece
Left
Colour: white
O.U. = 10 pieces

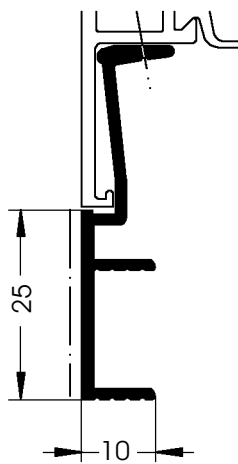


3659 05

like previous, but black

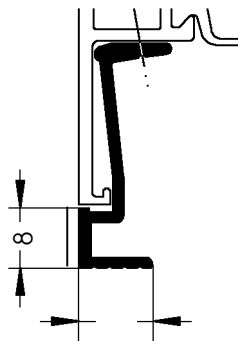
6122

Evolute: (mm)	
Visible width: 25	
Perimeter: 154	



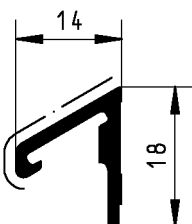
6122 10

Evolute: (mm)	
Visible width: 8	
Perimeter: 104	



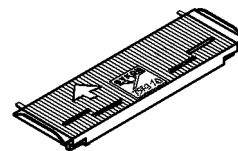
6103 10

Evolute: (mm)	
Visible width: 15	
Perimeter: 175	



7549 10

Synthetic-Buffer
30 x 3 mm
(up to 26 mm glass)
for mullion profile
and bottom rail
Colour: light green
O.U. = 50 pieces



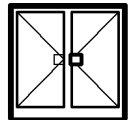
7549 20

Synthetic-Buffer
48 x 3 mm for
mullion profile and
bottom rail
Colour: grey
O.U. = 50 pieces

7549 30

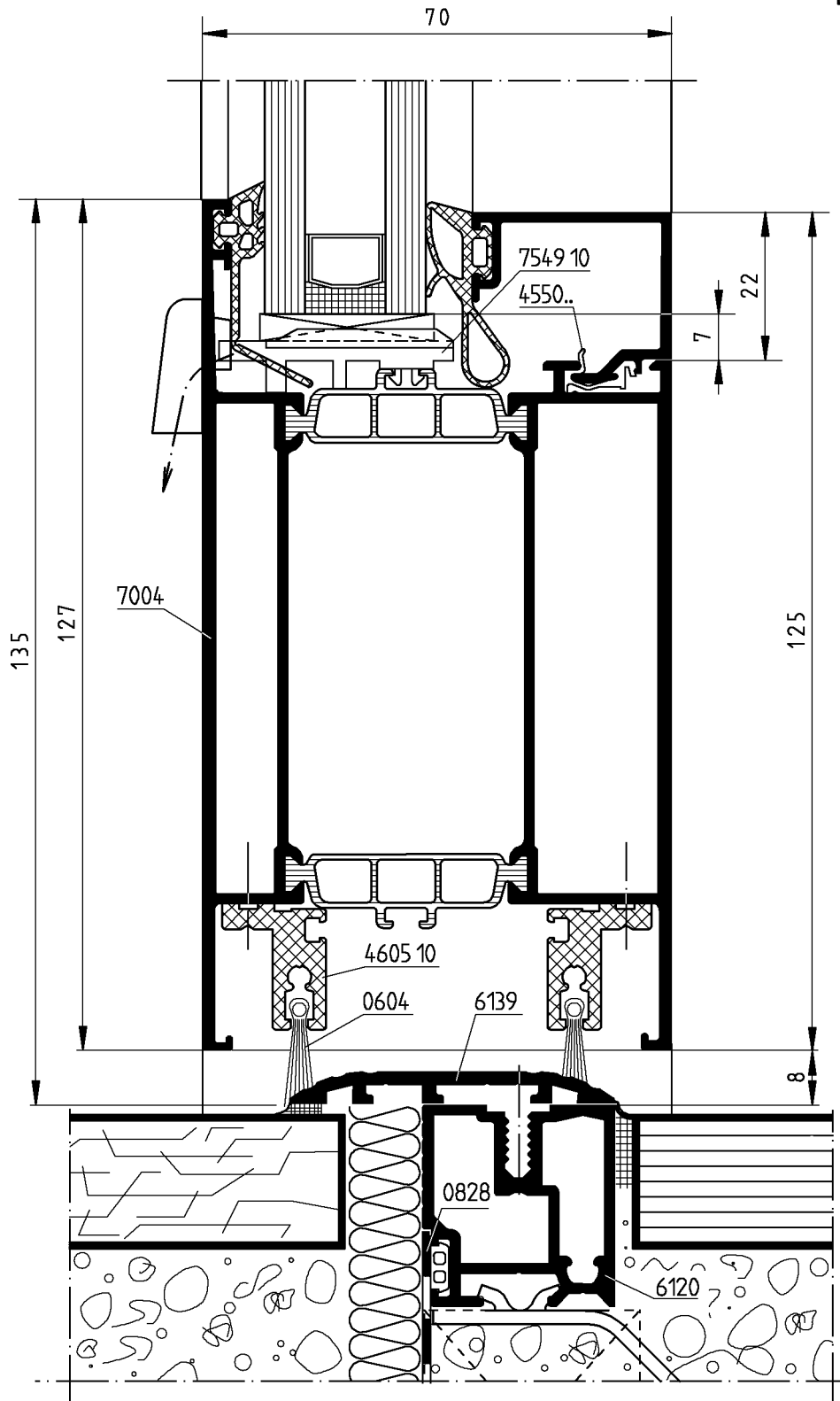
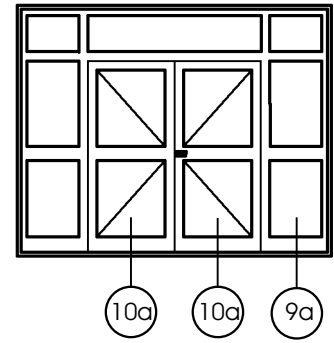
Synthetic-Buffer
45 x 3 mm for
door sash
Colour: light gray
O.U. = 50 pieces

Weather optional

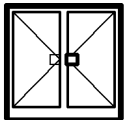


Section : (10a)

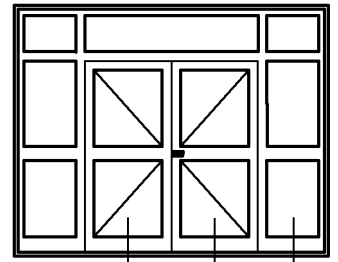
To be placed only in rain-protected places



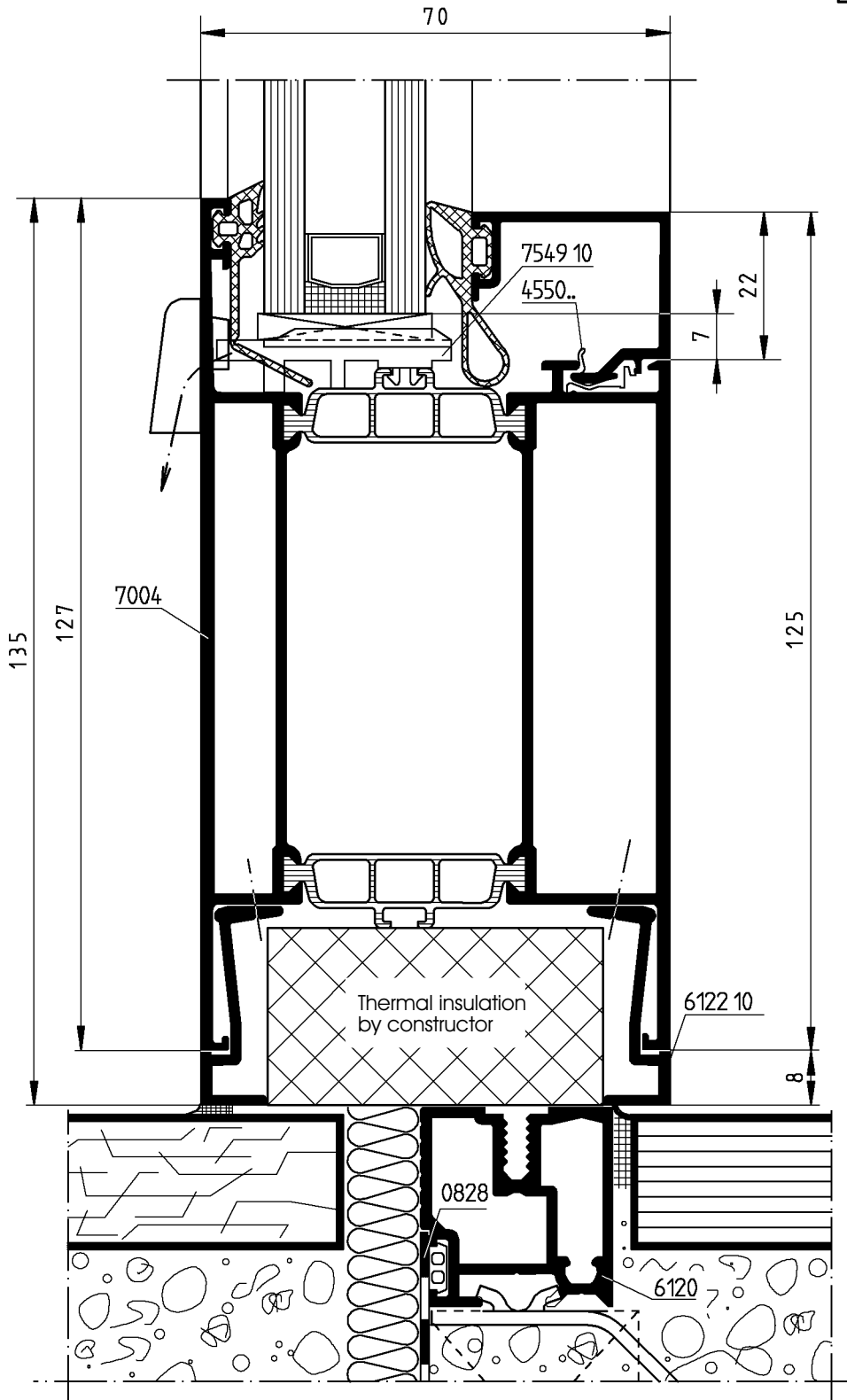
Inside or
outside
opening

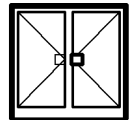


Section : (9a)



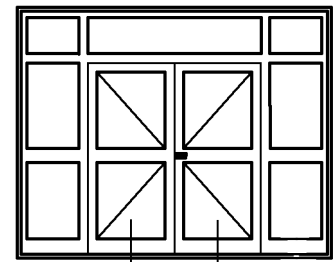
(10a) (10a) (9a)



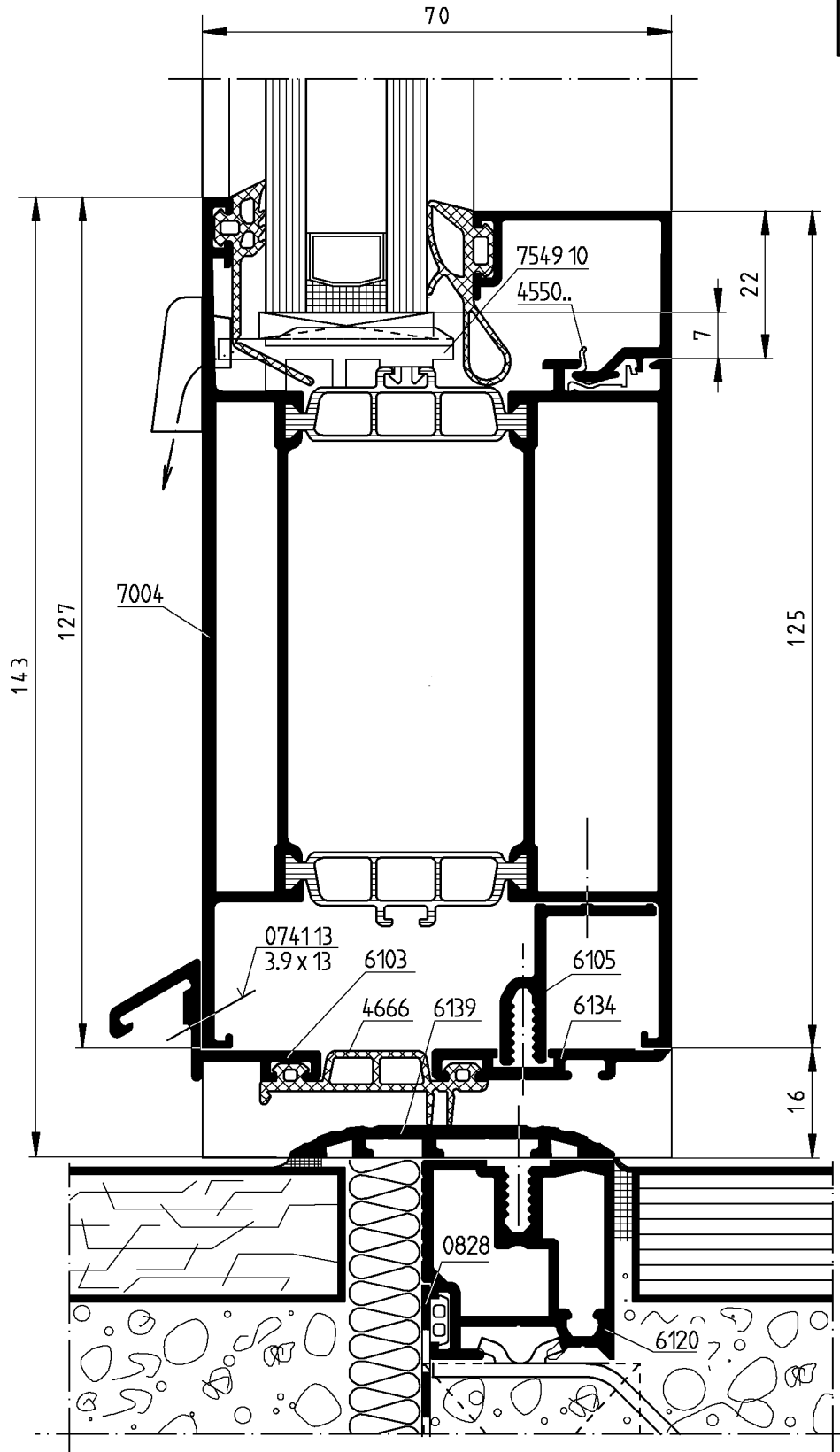


Section : (5b) (6b)

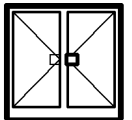
To be placed only in rain-protected places.



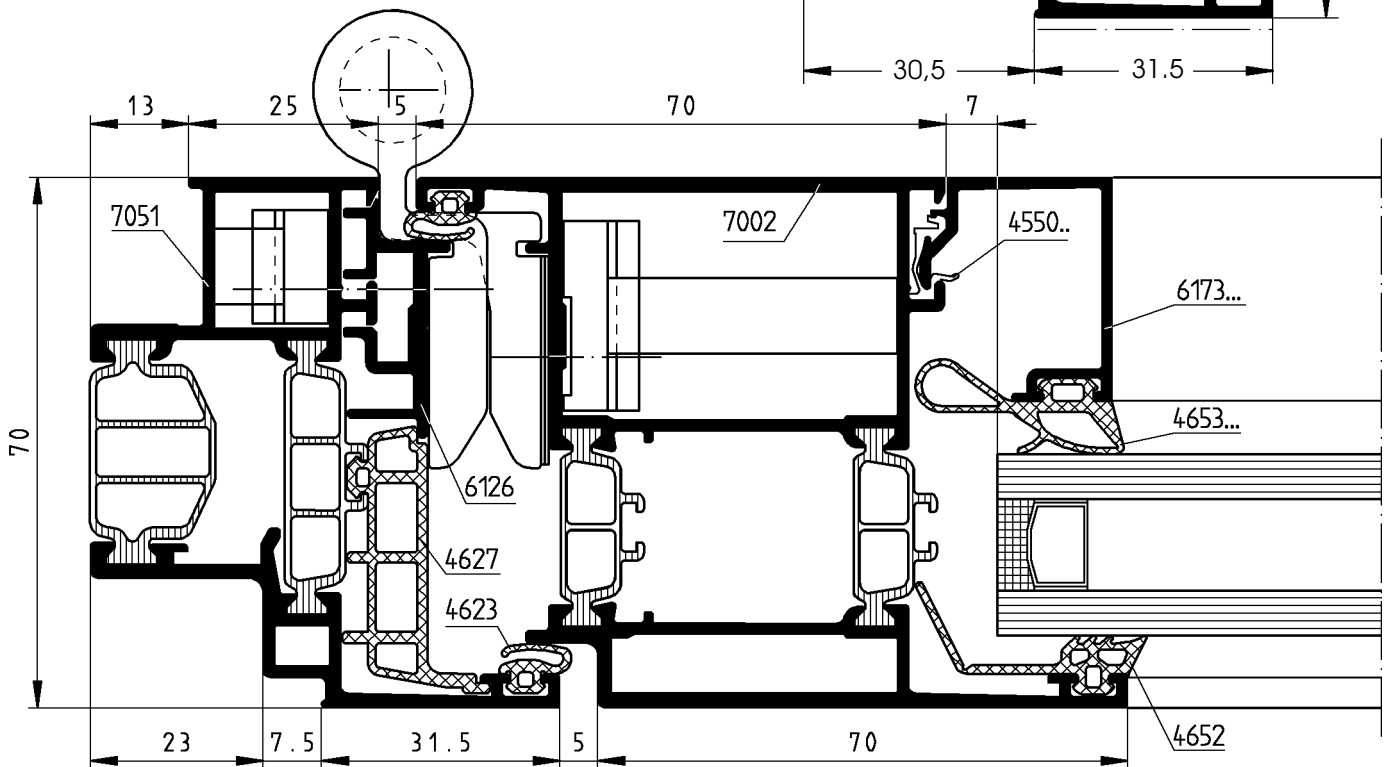
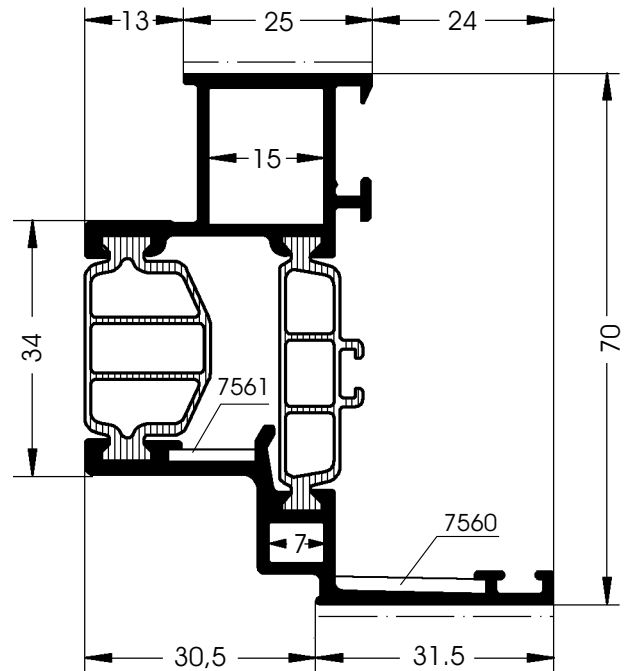
(5b) (6b)



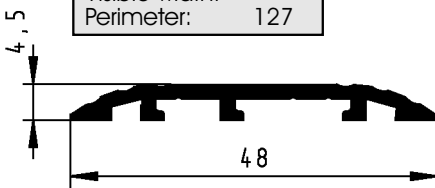
Inside or
outside
opening



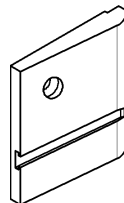
7051	Inside Profile	Outside Profile
Evolute: (mm)		
Visible width: 56	25	31
Perimeter: 266	168	211
PE joint:	7501	7524
Pin for NE:	5500	
Corner joint:		7560, 7561



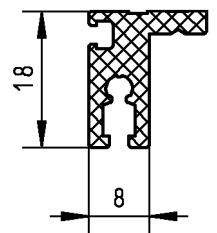
6139	Evolute: (mm)
Visible width: 48	
Perimeter: 127	



3657
Plastic plug
for lower leaf
and frame/threshold
corners
O.U. = 4 pieces

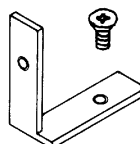


4605 10
Synthetic-
Brush adaptor
Length 6 m
Colour: black
O.U. = 1 piece

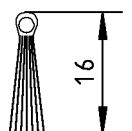


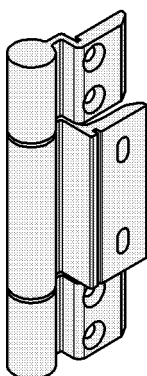
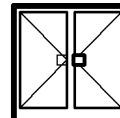
6800 10
Threshold joint
Assembled to frames
7029, 7030...

6800 20
Threshold joint
Assembled to frame 7012
O.U. = 1 Pair



0604
Brush
Colour: black
Length 1 m
O.U. = 1 piece





7401

Door Hinge

Can be used for right and left, with possibility of adjusting in height and at the sides, without hinge support for inside opening doors, for frames 7029, 7030, 7069... Profile 6126 and door sash 7002
EV1 anodized
O.U. = 1 piece

7401 01

Like previous but like stainless steel

7401 04

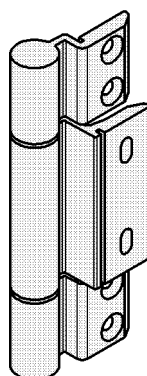
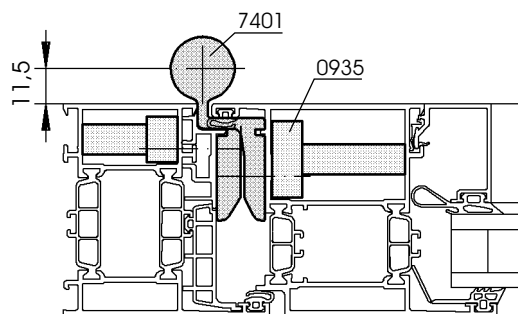
Door Hinge

Like previous but in white colour

7401 08

Door Hinge

Like previous but in RAL colour by choice



7402

Door Hinge

Can be used for right and left, Adjustable with holes, 3 functions, with stainless steel bolt for inside opening doors, for frames 7012 and door sash 7002, and outside opening doors for sash 7003
EV1 anodized
O.U. = 1 piece

7402 01

Door Hinge

Like previous but like stainless steel design, anodized

7402 04

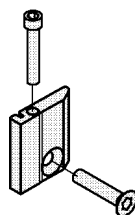
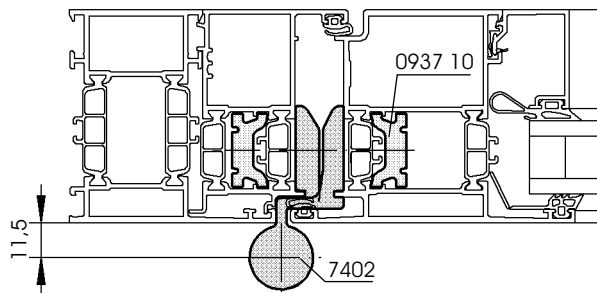
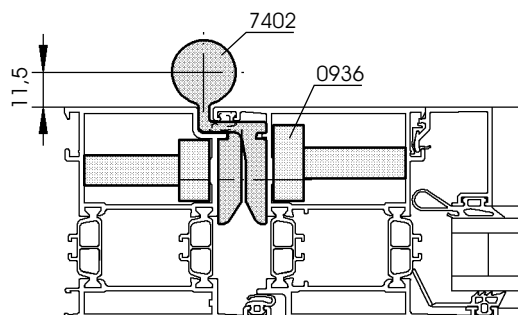
Door Hinge

Like previous but in white colour

7402 08

Door Hinge

Like previous but in RAL colour by choice



7401 10 DIN LEFT / 7401 20 DIN RIGHT

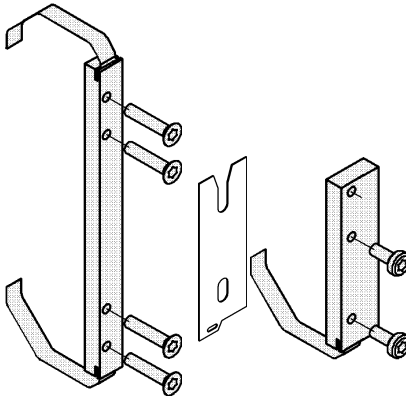
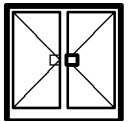
Height adjuster

For continuous height adjustment (-3 +4 mm) for door sash 7002 and 7003 with door hinges 7401 and 7402
EV1 anodized
O.U. = 1 piece

4826

Drilling plate

For hinges 7401/7402,
O.U. = 1 piece



0935

Hinge support

Fastening set for inside opening doors of **Series 70** with outer frames 7029,7030,7069... rebate profile 6126 and door vent 7002 complete for one roll **hinge** 7401 consist of 2 base lining plate and screws, O.U. = 1 piece

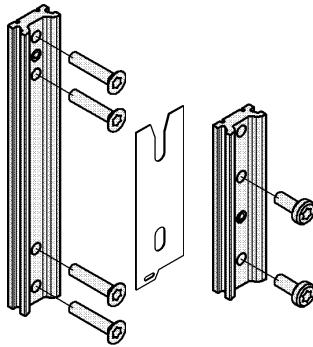
0936

Hinge support

For inside opening doors of **Series 70** with frame 7012 and door sash 7002 for one hinge **7402** there are 2 pieces, chuck-plate and screws, O.U. = 1 piece

Advice:

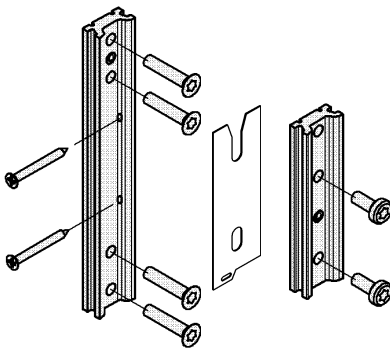
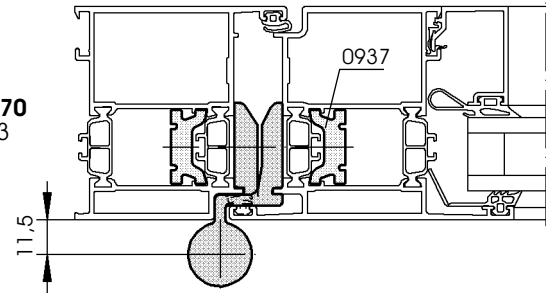
The fastening sets are provided with **Torx** fastening screws of stainless steel
Size: **Torx TX 30**
Available:
0868 TORX-Driller TX 30



0937

Hinge support

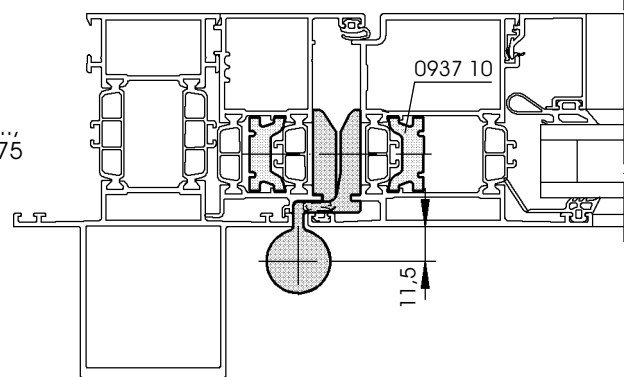
For outside opening doors of **Series 70** with frame 7021 and door sash 7003 for one hinge **7402** there are 2 pieces, chuck-plate and screws, O.U. = 1 piece



0937 10

Hinge support

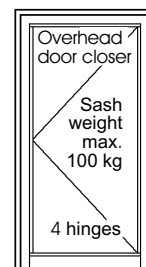
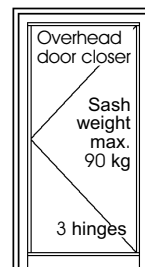
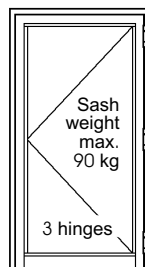
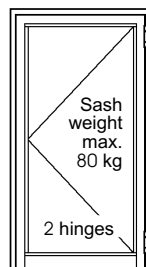
For outside opening doors of **Series 70** with frames 7029,7030,7069... and mullion profile 7074, 7075 Also profile 7008 and door sash 7003 for one hinge **7402** there are 2 pieces, chuck-plate and screws, O.U. = 1 piece



Assembly advice

Normal demand
E.g. One Family house

Normal to strong demand
e.g. Big house, public building...

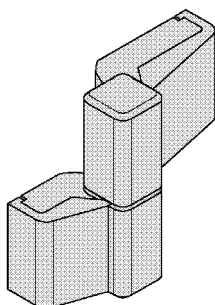
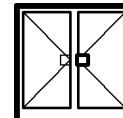


Sash width
max. 1250 mm
Sash height
max. 2100 mm

Sash height
max. 2300 mm

Sash height
max. 2100 mm

Sash height
max. 2300 mm



0911
Door hinge basic type 1

Can be used for right and left eccentric washers and INOX screws without hinge support
EV1 anodized
O.U. = 1 piece

0911 04

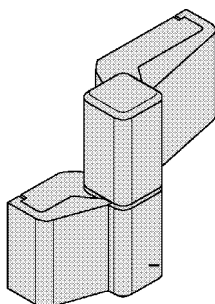
White colour

0911 07

Dark brown colour

0911 08

RAL colour by choice



0911 30
3-D Door Hinge basic type 1

Adjustable in all directions
Side adjustment 3mm
Height adjustment 4mm
Closing adjustment 0.75mm
Can be used right and left with stainless steel screws
Without hinge support

0911 34

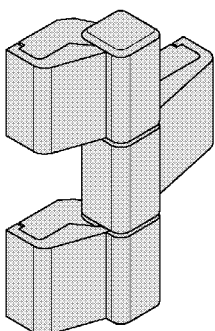
White colour

0911 37

Dark brown colour

0911 38

RAL colour by choice



0911 40
Triple hinge 2-D, basic type 1/3

Like previous but with two adjusting positions
Side adjustment 3mm
Closing adjustment 0.75mm without height adjustment
EV1 anodized
O.U. = 1 piece

0911 44

White colour

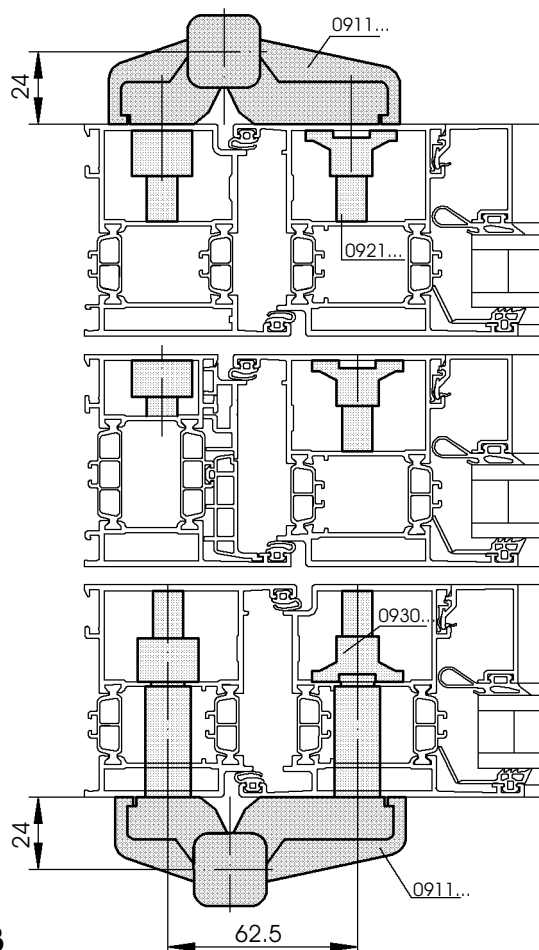
0911 47

Dark brown colour

0911 48

RAL colour by choice

For profiles:
Frame 7012 / sash 7002
frames 7029, 7030, 7069..
swing profile 6126 / sash 7002
frame 7021 / sash 7003



Hinges 0911 have also fulcrum distance 36 mm

0912 2-part
0912 10 3-part

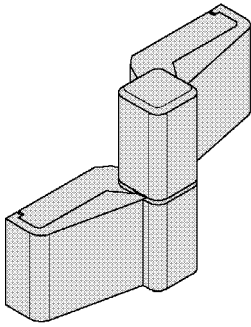
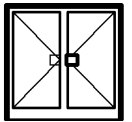
2892
Drilling plate

For hinges 0911.., 0911 30, 0911 40, 0912.., 0915..,

2892 10
Additional drilling plate (by using an existing drilling plate)
for 3D door hinge and triple hinge 2D

2894
Piloted counterbore
11/15 mm for spacer tubing hole by outside opening thermal insulated doors





0913
Hinge basic type 3

Can be used right and left
Eccentric washers
without hinge support
EV1 anodized
O.U. = 1 piece

0913 04

White colour

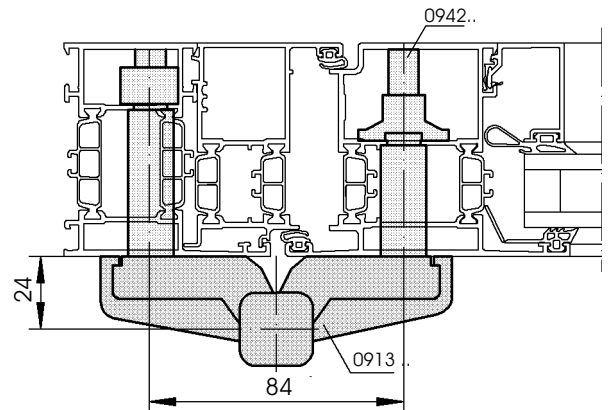
0913 07

Dark brown colour

0913 08

RAL colour by choice

For profiles :
7029,7069.. 7030 / 7008 - 7003



0913 30
3-D Hinge basic type 3

Adjustable in all directions
Side adjustment 3mm
Height adjustment 4mm
Closing adjustment 0.75mm
Can be used for right and left with
stainless steel
screws

0913 34

White colour

0913 37

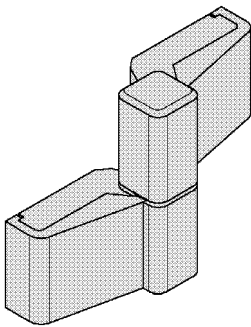
Dark brown colour

0913 38

RAL colour by choice

Hinges 0913 have also
fulcrum distance 36 mm

0914 2-part
0914 10 3-part



0913 40
Triple hinge 2-D, basic type 3/3

Adjustable in two directions
Side adjustment 3mm
Closing adjustment 0.75mm
without height adjustment

EV1 anodized

0913 44

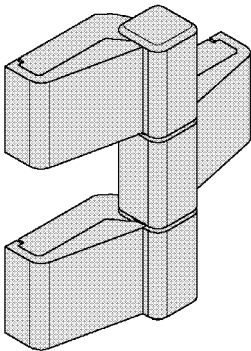
White colour

0913 47

Dark brown colour

0913 48

RAL colour by choice

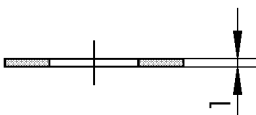


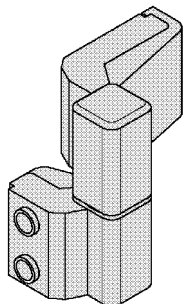
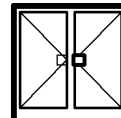
2893
Drilling plate

For hinges 0913 ..., 0913 30, 0913 40

2892 10
Additional drilling plate (by using an existing drilling plate)

4559 Adaptor
Lining washer of plastic
0911, 0913
O.U. = 20 pieces





0915

Door hinge basic type 5

Can be used with eccentric washers and INOX screws without hinge support
EV1 anodized
O.U. = 1 piece

0915 04

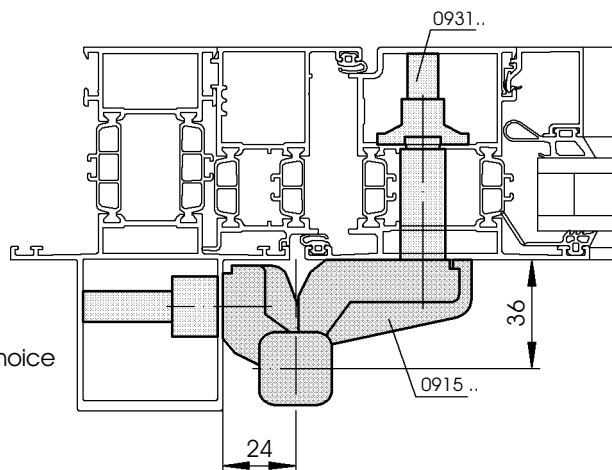
White colour

0915 07

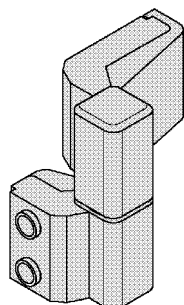
Dark brown colour

0915 08

RAL colour by choice



For Profile:
7074 / 7008 - 7003



0915 30

3-D Door hinge basic type 5

Adjustable in all directions
Side adjustment 3mm
Height adjustment 4mm
Closing adjustment 0.75mm
Can be used for right and left with INOX screws
Without hinge support
EV1 anodized

0915 34

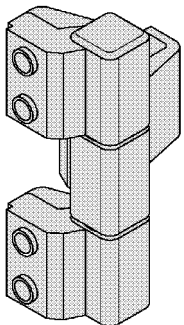
White colour

0915 37

Dark brown colour

0915 38

RAL colour by choice



0915 40

Triple hinge 2-D, basic type 5/3

Like previous but with two adjusting positions
Side adjustment 3mm
Closing adjustment 0.75mm
EV1 anodized
O.U. = 1 piece

0915 44

White colour

0915 47

Dark brown colour

0915 48

RAL colour by choice

Assembly advice

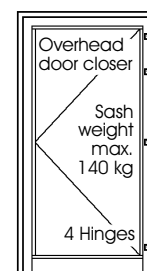
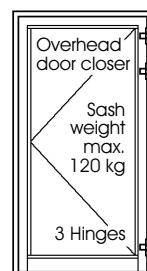
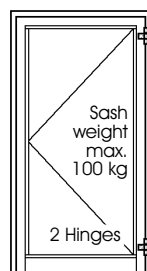
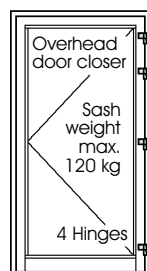
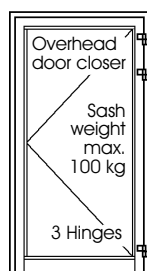
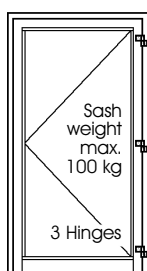
Normal workload
E.g One family house

Normal to strong workload
E.g One big house, public building ...

Triple hinge

Normal workload
E.g One family house

Normal to strong workload
E.g One big house, public building ...



Sash width max. 1250 mm

Sash height max. 2100 mm

Sash height max. 2300 mm

Sash height max. 2100 mm

Sash height max. 2300 mm

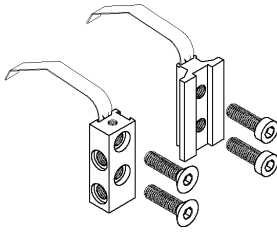
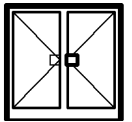
Sash width max. 1250 mm

Sash height max. 2100 mm

Sash height max. 2300 mm

Sash height max. 2100 mm

Sash height max. 2300 mm



0921
Hinge support

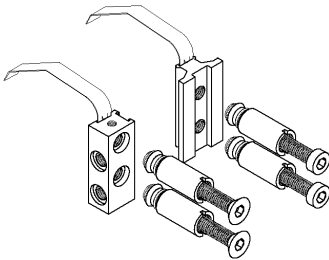
For inside opening doors of **series 70**
complete for hinge **0911**
consist of chuck plate and screws
O.U. = 1 piece

0921 30
Hinge support **3-D**

Like previous,
but for
3-D 0911 30
O.U. = 1 piece

0921 40
Hinge support 3-sided

Like previous,
but for 3-sided hinge
2-D 0911 40
O.U. = 1 piece



0930
Hinge support

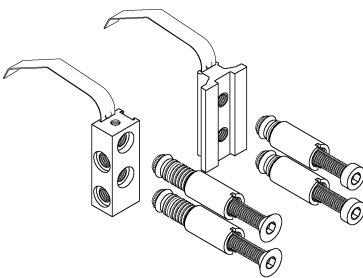
For outside opening doors of **Series 70**
with frame **7021**
complete for hinge 0911,
consist of chuck plate and screws
O.U. = 1 piece

0930 30
Hinge support **3-D**

Like previous,
but for
3-D 0911 30
O.U. = 1 piece

0930 40
Hinge support 3-sided

Like previous,
but for 3-sided hinge
2-D 0911 40
O.U. = 1 piece



0942
Hinge support

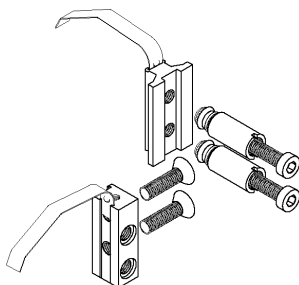
For outside opening doors of **series 70**
with frames 7029, 7030, 7069...
and **rebate profile 7008**
complete for hinge **0913**
consist of chuck plate and screws
O.U. = 1 piece

0942 30
Hinge support **3-D**

like previous,
but for
3-D 0913 30
O.U. = 1 piece

0942 40
Hinge support 3-sided

Like previous,
but for 3-sided hinge
2-D 0913 40
O.U. = 1 piece



0931
Hinge support

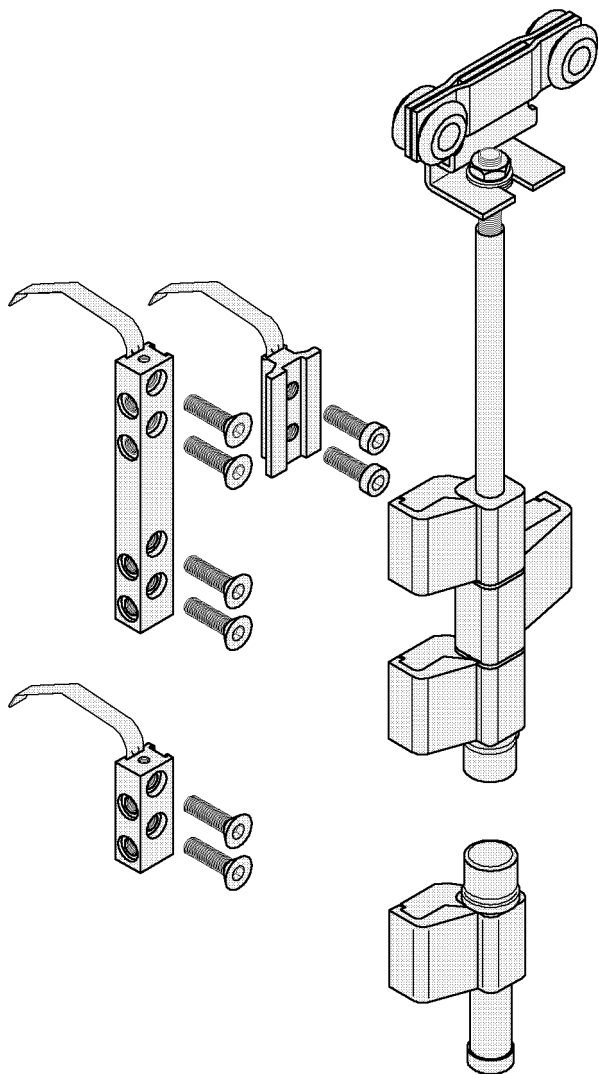
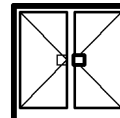
For outside opening doors of **Series 70**
with deep pile
for hinge **0915**
consist of chuck plate and screws
O.U. = 1 piece

0931 30
Hinge support **3-D**

Like previous,
but for
3-D 0915 30
O.U. = 1 piece

0931 40
Hinge support 3-sided

Like previous,
but for 3-sided hinge
2-D 0915 40
O.U. = 1 piece



0911 20
Folding hinge door 2-D

For inside opening lift-folding door with profiles 7002, 7003 can be used right or left, with stainless steel screws and eccentric washers
The upper part with roller and hinge support.
The lower part with driver and chuck plate
Load max. 100 kg
Colour: EV1 anodized
O.U. = 1 piece

0911 24
Lift-folding door

Like previous, in white colour

0911 27
Lift-folding door

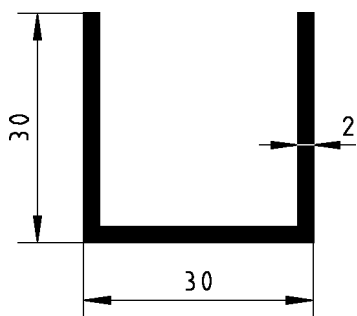
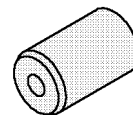
Like previous, in dark brown colour

0911 28
Lift-folding door

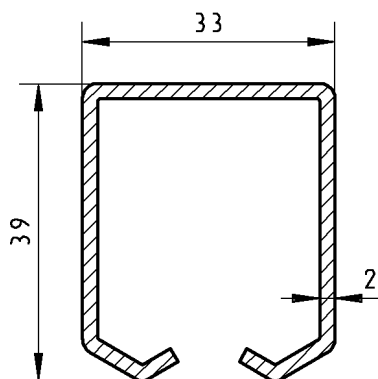
Like previous, in RAL colour by choice

0515
Buffer stop

Of plastic black
O.U. = 1 piece

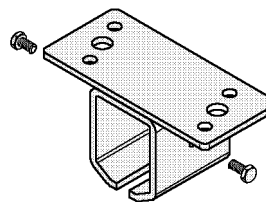


0184
U-Profile
O.U. = 6 m



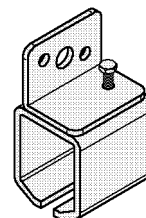
0419
Holder

For ceiling support
Galvanized steel
max. 700 mm
O.U. = 1 piece



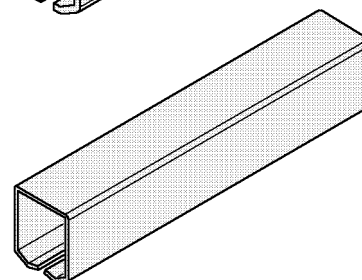
0420
Holder

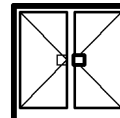
For wall support,
galvanized steel
max. 700 mm
O.U. = 1 piece



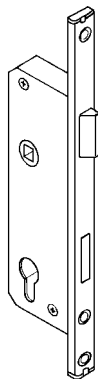
0223
Driver

Steel, anodized
Load 150 kg with support
per 700 mm
O.U. = 6 m





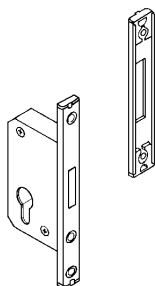
Thorn 34 mm



7412
Security lock

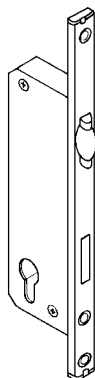
Thorn 34 mm,
for sashes 7002, 7003,
with case,
can be used right or left,
24 x 6 mm, face plate,
Lock **21 mm**, with safety device,
Pusher nut **8 mm square pin**.
O.U. = 1 piece

7413
Security lock



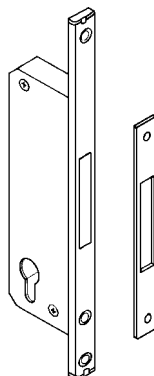
Thorn 34 mm,
for sashes 7002, 7003,
with case,
can be used right or left,
24 x 6 mm, face plate,
Lock **21 mm**, with safety device,
Pusher nut **8 mm square pin**.
O.U. = 1 piece

7417
Security roller lock



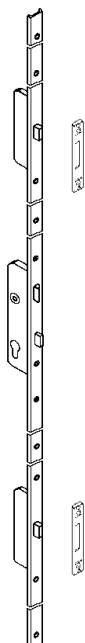
Thorn 34 mm,
for sashes 7002, 7003,
with case,
can be used right or left,
24 x 6 mm, face plate,
Lock **21 mm**, with safety device,
Pusher nut **8 mm square pin**.
O.U. = 1 piece

7420
Security lock



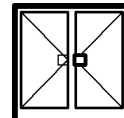
Thorn 34 mm,
for sashes 7002, 7003,
with case,
can be used right or left,
24 x 6 mm, face plate,
Lock **35 mm**, with safety device,
Pusher nut **8 mm square pin**.
O.U. = 1 piece

Thorn 34 mm

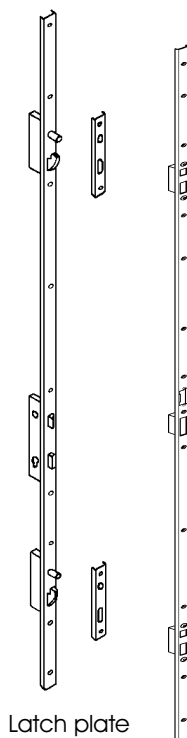


7418
Three point security lock

Thorn 34 mm,
for sashes 7002 and 7003
with case,
can be used left or right,
21 mm lock,
with safety device
and protection,
Additional lock
21 mm
with face plates for upper
and lower locking
O.U. = 1 piece



Thorn 34 mm



Latch plate

7419

Five point security lock

Thorn 34 mm, for sashes 7002, 7003 with case, can be used right or left, center lock with face plate
The additional locks are pin-locks
O.U. = 1 piece

7419 10

Five point security lock

Like previous but with adjustable closer

7419 20

Five point security lock Right

7419 30

Five point security lock Left

Like previous but with adjustable closer

7419 06

Five point security lock

like 7419 in RAL 9007 gray aluminium colour

7419 16

Five point security lock

like 7419 06 but with adjustable closer

7421

Five point security lock with ANTI-PANIC function

Thorn 34 mm, for sashes 7002, 7003 with case, can be used right or left, center lock with face plate
The additional locks are pin-locks
O.U. = 1 piece

Hint: Special fittings according DIN EN 179 (Emergency exits) or DIN EN 1125 (Panic doors) compromise with the certified accessories which are by order available

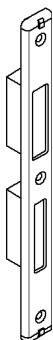
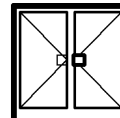
Anti-Panic function (Panic function E):

Outside Accessories :

Door handle unlock ,with the key the latch plates are back closed and the traps are drawn in. The door opens.

Inside

Accessories: Door handle with 9 mm square steel
Over the pusher ,also with closed latch plate always opens,after each opening the lock is in the basic position
Cylinder profile 0310 10 with 360 degrees rotation is necessary

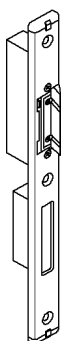


7414
Latch plate

Stainless steel
24 x 6 mm,
Can be used right or left
for locks 7412, 7418, 7419...
O.U. = 1 piece

7414 10
Latch plate

Like previous but for lock 7417
O.U. = 1 piece

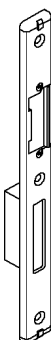


7415
Electric latch plate DIN left

7416
Electric latch plate DIN right

Stainless steel
24 x 6 mm,
With mechanical lock,
voltage 6-12 V
for lock 7412...

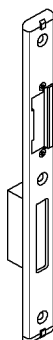
O.U. = 1 piece



7415 10
Latch plate DIN left

7416 10
Latch plate DIN right

Stainless steel
24 x 6 mm,
with adjustable position
for lock 7412...
O.U. = 1 piece



7415 20
Latch plate DIN right

7416 20
Latch plate DIN left

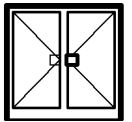
Stainless steel
24 x 6 mm,
with adjustable position
pre-adjusted by e-opener
for lock 7412...
O.U. = 1 piece

7552
Apostate

Of black plastic
for latch plates 7414, 7415 10, 7415 20,
Electric latch plate 7415,
panic-accessories 7403, 7404, 7406, 7407, 7408, 7409
for outside opening doors
O.U. = 1 piece

7552 10
Apostate

Of black plastic,
for Electric latch plate
7408 60, 74 08 70, 7409 60, 7409 70
for outside opening panic doors
O.U. = 1 piece



Thorn 34 mm



7423 20 DIN RS, 7423 30 DIN LS
Five point security lock with electric activation
GENIUS EA

Thorn 34 mm,
for sashes 7002, 7003

Genius EA Electronic control and electronic motor

Key-operated with case can be used left and right
Cover made of stainless steel 24 x 6 mm,
main lock with flat latch plate,
with safety device, upper and lower auxiliary lock also
Combination of hardened steel round pin
Magnet socket on the window frame side

Safe-Function: After each entrance the door is locked automatically

Vario-Function: The door remains closed by the trap

7423 40 Basic accessories GENIUS EA:

Power pack

Designed for the assembly in
a build-lateral Box on standardized
35 mm DIN rail.

Technical data:

Voltage 230 V AC, 50 Hz
Protection: Safety device 5X20
Output voltage 24 V DC, Power 10 W

External receiver

Access control system for genius
Voltage supply over power pack 24 V DC
The range of the external receiver is
10 to 100 m. connection with cable E.
It also can be 84 m with radio hand transmitters
if programmed.



Power pack

Hand transmitter

for the external receiver (grey or orange)
The 2-channel hand transmitter serves for
the transmission. The two keys are individually
programmable



Magnet socket

for installation in closing border

Tracer

for installation in the sash profile inside, outside
High-quality steel matt, ready for installation with
cable 750 mm long



Cable F (leaf side)

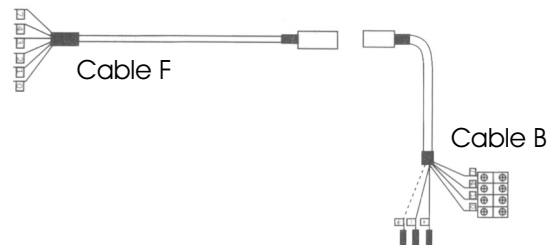
ready for installation with plug with 6 pins
Length 4 m (other lengths available).

Cable B (frame side)

ready for installation with plug with 6 pins
Length 8 m (other lengths available).

Cable E

three-core ready for installation, shielded
Length 1 m (other lengths available).



0462 Cable transition

for the covered cable run by the door
(leaf can open to 180° possible)

0310 10 Cylinder profile

Cylinder profile with rotation 360°

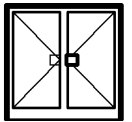
Coupling relay

Voltage :12 V AC/DC

Receiver

with contact for other external
E.g for garage doors
Voltage supply 12 or 24 V DC





Thorn 34 mm



7423 21 DIN Right, 7423 31 DIN Left
Five point security lock GENIUS CA
with quick opening mechanism

Thorn 34 mm,
for sashes 7002, 7003

Genius CA Electronic control and electronic motor

Key-operated with case can be used left and right
Cover made of stainless steel 24 x 6 mm,
main lock with flat latch plate,
with safety device, upper and lower auxiliary lock also
Combination of hardened steel round pin
Magnet socket on the window frame side
O.U. = 1 piece

Safe-Function: After each entrance the door is locked automatically
Vario-Function: The door remains closed by the trap

7423 41 Basic accessories GENIUS CA:

Power pack

Designed for the assembly in
a build-lateral Box on standard
35 mm DIN rail.

Technical data:

Voltage 230 V AC, 50 Hz
Protection: Safety device 5X20
Output voltage 24 V DC, Power 10 W

External receiver

Access control system for genius
Voltage supply over power pack 24 V DC
The range of the external receiver is
10 to 100 m. connection with cable E.
It also can be 84 m with radio hand transmitters
if programmed.



Power pack

Hand transmitter

for the external receiver (grey or orange)
The 2-channel hand transmitter serves for
the transmission. The two keys are individually
programmable



Magnet socket

for installation in closing border



Cable F (leaf side)

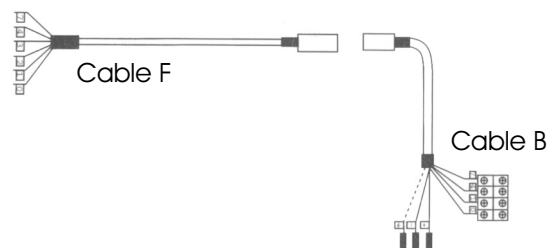
ready for installation with plug with 6 pins
Length 4 m (other lengths available).

Cable B (frame side)

ready for installation with plug with 6 pins
Length 8 m (other lengths available).

Cable E

three-core ready for installation, shielded
Length 1 m (other lengths available).



0462 Cable transition

for the covered cable run by the door
(leaf can open to 180° possible)

0310 10 Cylinder profile

Cylinder profile with rotation 360°

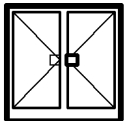
Coupling relay

Voltage :12 V AC/DC



Receiver

with contact for other external
E.g for garage doors
Voltage supply 12 or 24 V DC



Thorn 34 mm



7423 20 DIN Right, 7423 30 DIN Left
Five point security lock **GENIUS EA**
with electric activation

7423 21 DIN Right, 7423 31 DIN Left
Five point security lock **GENIUS EA**
with electric activation

Safe-Function: After each entrance the door is locked automatically

Vario-Function: The door remains closed by the trap

7423 50 basic accessories with transponder key and reader for five point security lock GENIUS EA:
7423 51 basic accessories with transponder key and reader for five point security lock GENIUS EA:

Power pack

Designed for the assembly in a build-lateral Box on standardized 35 mm DIN rail.

Transponder electronics

Access control system for genius
Voltage supply 12/24 V AC/DC over power pack
Connection with cable E. up to 3 (antennas) to be attached up to 99 keys can be programmed.

Transponder key

Transponder in form of a key trailer, Range approx. 80 mm.

Antenna

With 2 m cable in silver colour

Tracer (by Genius EA)

for installation in the sash profile inside, outside
High-quality steel matt, ready for installation with cable 750 mm long

Cable F (leaf side)

ready for installation with plug with 6 pins
Length 4 m (other lengths available).

Cable B (frame side)

ready for installation with plug with 6 pins
Length 8 m (other lengths available).

Cable E

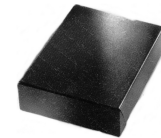
three-core ready for installation, shielded
Length 1 m (other lengths available).

Cable T

For the antenna

Technical data:

Voltage 230 V AC, 50 Hz
Protection: Safety device 5X20
Output voltage 24 V DC, Power 10 W



Power pack

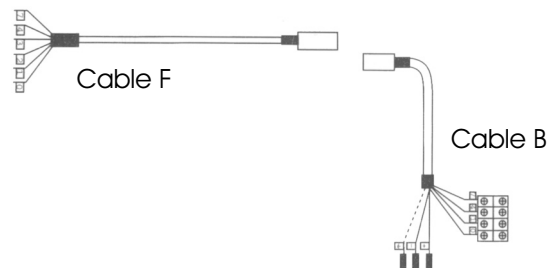


Antenna



Magnet socket

for installation in closing border



0462 Cable transition

for the covered cable run by the door
(leaf can open to 180° possible)

0310 10 Cylinder profile

Cylinder profile with rotation 360°

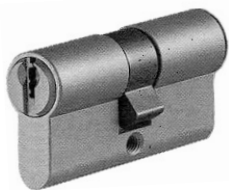
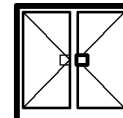
Coupling relay

Voltage :12 V AC/DC

Antenna

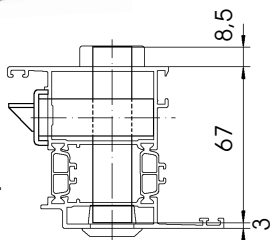
with contact for other external
Voltage supply 12 or 24 V DC





DIN 18252

Sash
7002, 7003.



0310 03
Cylinder lock

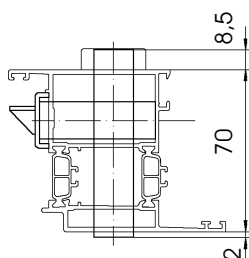
outside 3 mm bunch back
for rosette 4590,
with emergency and danger function and
outside drilling protection,
75.5 mm (30.5/45) long,
different-closing,
solid brass, matt nickel plates,
with 3 pieces nickel keys.
O.U. = 1 piece

0310 10
Cylinder lock

like 0310 03 cylinder, however
with function 360o for 7421 10 (11)
five point lock
or genius fivefold bolting device
with electric activation
O.U. = 1 piece

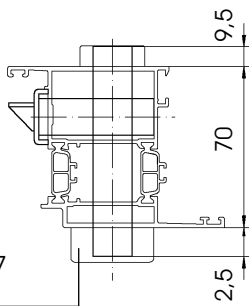
0310 02
Cylinder lock

like 0310 03 cylinder, however
with drilling and pulling protection P2 BZ,
also for 6414 24
O.U. = 1 piece



0311 03
Cylinder lock

outside 2 mm
with emergency bunch and danger function and
outside drilling protection,
80.5 mm (30.5/50) long,
different-closing,
solid brass, matt nickel plates,
with 3 nickel keys.
O.U. = 1 piece



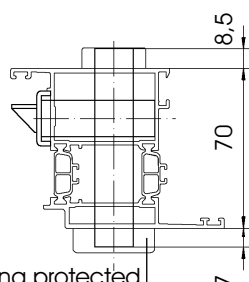
6467
DIN 18257

0312 04
Cylinder lock

for accessories according to DIN 18257
Protection width max 36 mm,
with emergency and danger function
outside drilling protection P2 BS4,
92 mm (31.5/60.5) long,
in accordance with DIN 18252,
different-closing,
solid brass, matt nickel plates,
with 3 nickel keys
O.U. = 1 piece

0312 10
Cylinder lock

like 0312 04 cylinder, however
with function 360o for 7421 10 (11)
Escape door/panic door five point lock
or genius five point bolting device
with electronic activation.
O.U. = 1 piece



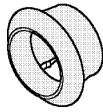
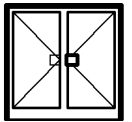
Pulling protected
Rosette

0313 03
Cylinder profile

for rosette 0491 40...
with emergency and danger function
outside drilling protection,
85.5 mm (30.5/55) long,
different-closing,
solid brass, matt nickel plates,
with 3 nickel keys.
O.U. = 1 piece

0328 Additional key

nickel key
O.U. = 1 piece



4590 04

Rosette

from plastic, for covering the cylinder lock
Colour: white
O.U.= 10 pieces

4590 05

Rosette

from plastic, for covering the cylinder lock
Colour : black
O.U. = 10 pieces



0491 40

Rosette with pulling protection

from aluminum, 11, 5 mm highly, oval form 33 x 74 mm, with covered attachment silver-colored anodized
O.U. = 1 piece

0491 44

Rosette with pulling protection

like previous in white colour
O.U. = 1 piece

0491 47

Rosette with pulling protection

like previous in dark brown colour
O.U. = 1 piece

0491 41

Rosette with pulling protection

from stainless steel 11, 5 mm highly, oval form 33 x 74 mm, with covered attachment
O.U.= 1 piece



0460

Contact

2-pole for electrical door openers for double swing door
O.U.= 1 piece



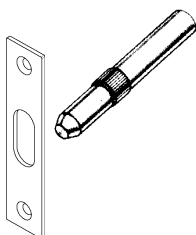
0461 Cable transition

Cable for signal transmission from frame to sash from stainless steel
O.U. = 1 piece



0462 Cable transition

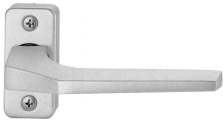
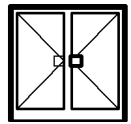
Cable for signal transmission from frame to sash from stainless steel easy assembly
O.U. = 1 piece



6417 20

Security pin

For side locking device from stainless steel for door sashes 7002, 7003
O.U. = 1 piece



0488
Door handle
from aluminum,
rectangular rosette
stop mechanism,
visible attachment,
for 8 mm square pin,
silver-colored anodized.
O.U. = 1 piece

0488 04
Door handle
Like previous
in white colour
O.U. = 1 piece

0488 07
Door handle
Like previous in
dark bronze colour
anodized
O.U. = 1 piece

Hint: Square pin are ordered separately



0479
PZ-Rosette
from aluminum, 3 mm high
rectangular, 28 x 65 mm,
visible attachment,
silver-colored anodized
O.U. = 1 piece

0479 04
PZ-Rosette
Like previous
in white colour
O.U. = 1 piece

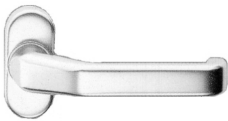
0479 07
PZ-Rosette
Like previous in
dark bronze colour
anodized
O.U. = 1 piece



0499
PZ-Rosette
from aluminum, 6 mm high
rectangular, 30 x 65 mm,
visible attachment,
silver-colored anodized
O.U. = 1 piece

0499 04
PZ-Rosette
Like previous
in white colour
O.U. = 1 piece

0499 07
PZ-Rosette
Like previous in
dark bronze colour
anodized
O.U. = 1 piece



0491 01
Door handle
from stainless steel,
oval rosette
stop mechanism,
visible attachment,
for 8 mm square pin,
O.U. = 1 piece

0491
Door handle
from aluminum, oval rosette
stop mechanism,
visible attachment,
for 8 mm square pin,
silver-colored anodized.
O.U. = 1 piece

0491 04
Door handle
Like previous
in white colour
O.U. = 1 piece

0491 05
Door handle
Like previous in
dark brown colour
8077
O.U. = 1 piece

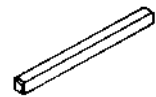


0491 31
PZ-Rosette
Stainless steel, 9 mm height,
oval form, 35 x 75 mm,
visible attachment
O.U. = 1 piece

0491 30
PZ-Rosette
Aluminium, 9 mm height,
oval form, 35 x 75 mm,
visible attachment
silver anodized
O.U. = 1 piece

0491 34
PZ-Rosette
Like previous
in white colour
O.U. = 1 piece

0491 35
PZ-Rosette
Like previous in
dark brown colour
8077
O.U. = 1 piece



0474 13
Square pin 8 mm
8 x 130 mm
O.U. = 1 piece

0474 65
Square pin 8 mm
8 x 65 mm
O.U. = 1 piece



0490
Door handle
from aluminum,
rectangular rosette
visible attachment,
for 8 mm square pin,
silver-colored anodized.
O.U. = 1 piece

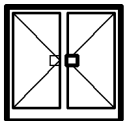
0490 04
Door handle
Like previous
in white colour
O.U. = 1 piece

0490 07
Door handle
Like previous in
dark bronze colour
anodized
O.U. = 1 piece

0489
Door Handle kit
from Aluminium,
like previous
with square pin 8 mm,
silver colour
anodized
O.U. = 1 Pair

0489 04
Door Handle kit
Like previous
in white colour
O.U. = 1 Pair

0489 07
Door Handle kit
Like previous in
dark bronze colour
anodized
O.U. = 1 Pair



0400
Handle
from aluminum, round pipe
30 mm diameter,
Height of A = 350 mm,
silver-colored anodized
O.U. = 1 piece

0400 01
Handle
Stainless steel, round pipe
30 mm diameter,
Height = 350 mm
O.U. = 1 piece



0401
Handle
from aluminum, round pipe
30 mm diameter,
Height of A = 350 mm,
silver-colored anodized
O.U. = 1 piece

0401 01
Handle
Stainless steel, round pipe
30 mm diameter,
Height = 350 mm
O.U. = 1 piece



0401 11
Handle
Stainless steel, round pipe
30 mm diameter,
Height = 300 mm
O.U. = 1 piece



0404 04
Handle
from Polyamide, round pipe
33 mm diameter,
Height of A = 300 mm,
Colour : white
O.U. = 1 piece



0404 14
Handle
from Polyamide, round pipe
40 mm diameter,
Height of A = 360 mm,
Width = 175 mm
Colour : white
O.U. = 1 piece

The handles from
polyamide are
available in other
colours by choice



0451
Assembly set
M 8, for one-sided
attachment
handles from aluminum:
0400 and 0401
O.U. = 2 pieces

0451 10
Assembly set
for one-sided attachment
handles 0400 01, 0401 01
0401 11, 0404 04 and
0404 14
O.U. = 2 pieces

0452
Assembly set
M 8, in pairs
Attachment for handles
from aluminum: 0400
and 0401
O.U. = 2 pieces

0452 10
Assembly set
in pairs
Attachment for handles
0400 01, 0401 01,
401 11, 0404 04 u.
0404 14. (70 mm)
O.U. = 2 pieces



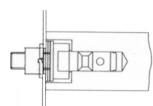
0412 04
Handle
from Polyamide, round pipe
34 mm diameter,
Height of A = 269 mm,
Width = 120 mm
Colour : white
O.U. = 1 piece

0412 07
Handle
Like previous
in dark brown colour
O.U. = 1 piece

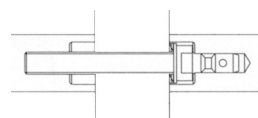


0413 04
Handle
from Polyamide, round pipe
34 mm diameter,
Height of A = 200 mm,
Width = 176 mm, colour : white
O.U. = 1 piece

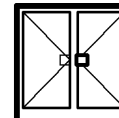
0413 07
Handle
Like previous
in dark brown colour
O.U. = 1 piece



0418
Assembly set
for one-sided attachment
handles 0412/0413
O.U. = 2 pieces



0414 10
Assembly set
For pair attachment
(68-78 mm)
O.U. = 2 pieces



0509
 Handle
 From aluminum
 silver-colored anodized with
 plastic handle plate, black
 150 x 150 mm,
 O.U. = 1 piece

0509 04
 Handle
 Like previous but
 in white colour

0509 07
 Handle
 Like previous but
 in dark bronze colour
 anodized



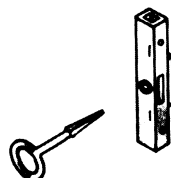
0780
 Hexagon cap nut M6
 DIN 1587, Alu EV1 anodized
 O.U. = 20 pieces

0775
 Grub screw M6
 M 6 x 25 DIN 551
 galvanized steel
 O.U. = 100 pieces



0473
 Door clamp
 Stroke 60 mm,
 Cap
 silver-colored anodized
 O.U. = 1 piece

0473 04
 Door clamp
 Like previous but in
 white colour



0407
 Driving latch plate
 width 24 mm, galvanized,
 Connecting screw M10
 Qt= 1 piece

0471
 Wrench
 For driving latch plate **0407**,
 nickel
 O.U. = 1 piece



0485
 Lock
 with surrounding lever
 different depths,
 (e-opener, swivel lock, etc.),
 Thorn adjustable
 from 15 to 35 mm,
 Connecting screw M10
 O.U. = 1 piece

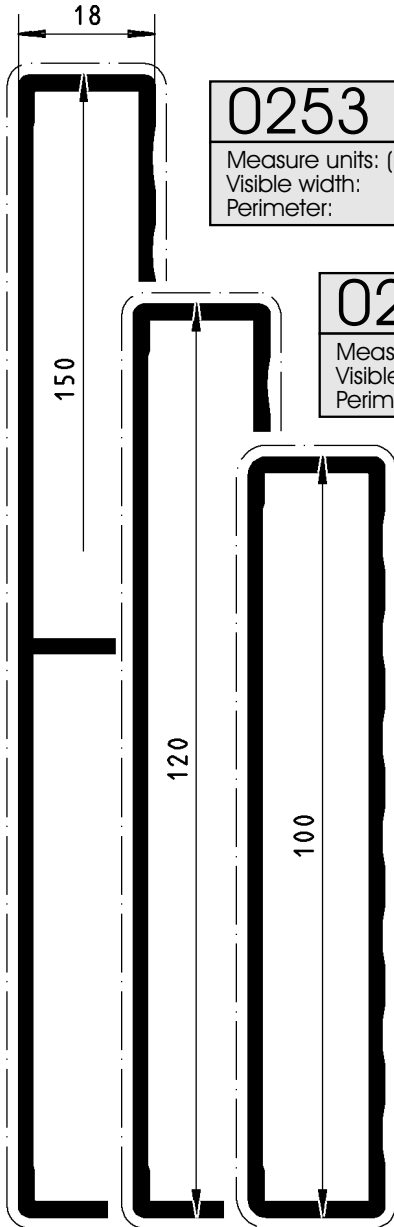
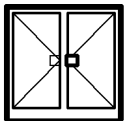
0481
 Inserting lock accessory
 with lever, mandrel 20 mm,
 Connecting screw M10
 O.U. = 1 piece



0160
 Aluminium round bar 10 mm
 as extension rod for door latch plates,
 Length 6 m
 O.U. = 1 piece



7562
 Extension's rod driver
 For profiles 7002, 7003,
 up and down
 O.U. = 1 pair



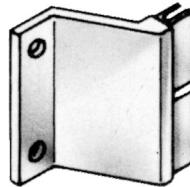
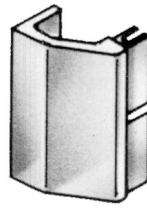
0253
Measure units: (mm)
Visible width: 334
Perimeter: 334

0252
Measure units: (mm)
Visible width: 274
Perimeter: 274

0251
Measure units: (mm)
Visible width: 234
Perimeter: 234

handle foils 0501 to 0513
can be coated in
RAL colour by choice

M 1:1



0501

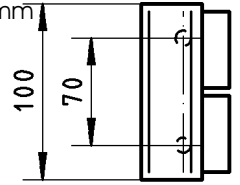
Console
for volume grasp 100 mm
EV1 anodized
O.U. = 1 piece

0501 04

like previous but in
white colour

0501 07

Like previous but bronze anodized



0502

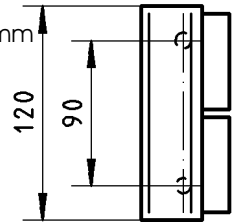
Console
for volume grasp 120 mm
EV1 anodized
O.U. = 1 piece

0502 04

Like previous but in
white colour

0502 07

Like previous but bronze anodized

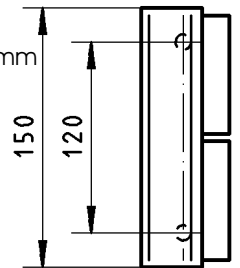


0503

Console
for volume grasp 150 mm
EV1 anodized
O.U. = 1 piece

0503 04

Like previous but in
white colour

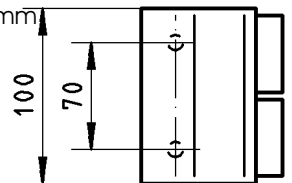


0511

Console
for volume grasp 100 mm
EV1 anodized
O.U. = 1 piece

0511 04

Like previous but in
white colour

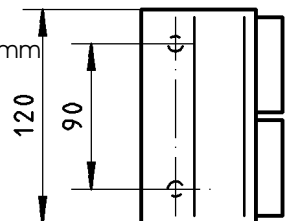


0512

Console
for volume grasp 120 mm
EV1 anodized
O.U. = 1 piece

0512 04

Like previous but in
white colour

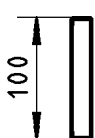
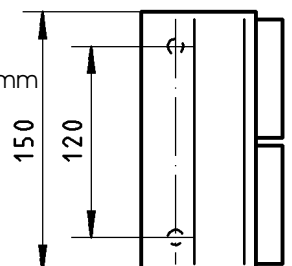


0513

Console
for volume grasp 150 mm
EV1 anodized
O.U. = 1 piece

0513 04

Like previous but in
white colour



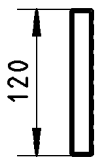
0516

Volume grasp
For handle foil 0501,0511, with profile 0251
985 mm length, EV1 anodized
O.U. = 1 piece

0516 04
Like previous but in
white colour

0516 07

Like previous but bronze anodized



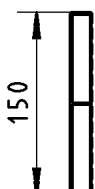
0517

Volume grasp
For handle foil 0502,0512, with profile 0252
985 mm length, EV1 anodized
O.U. = 1 piece

0517 04
Like previous but in
white colour

0517 07

Like previous but bronze anodized



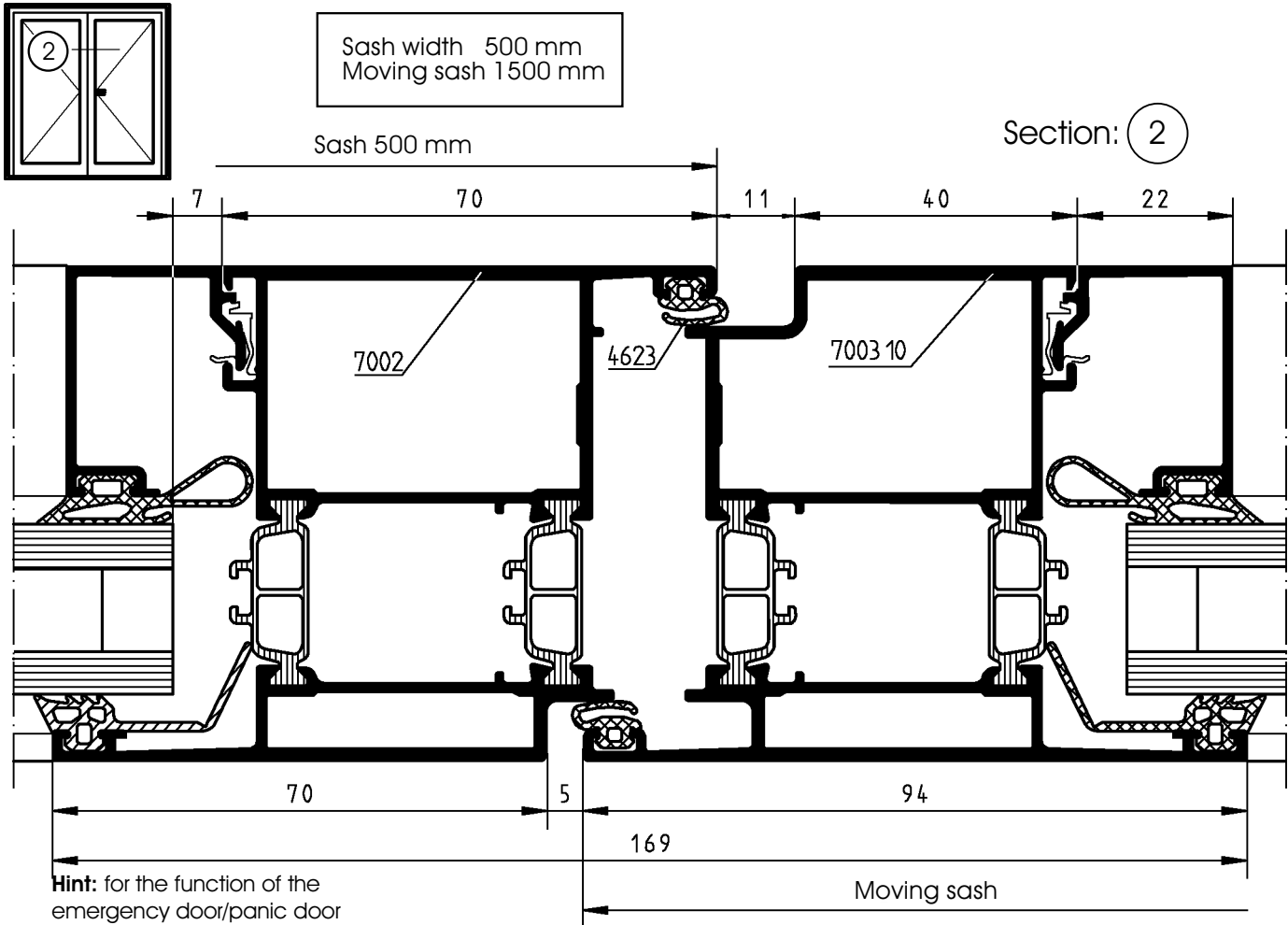
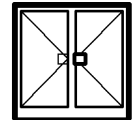
0518

Volume grasp
For handle foil 0503,0513, with profile 0253
985 mm length, EV1 anodized
O.U. = 1 piece

0518 04
Like previous but in
white colour

0518 07

Like previous but bronze anodized



Hint: for the function of the emergency door/panic door
Mortice locks/door catches:

7403, 7404, 7406, 7407, 7408, 7409

During the release of the panic function the latch plate is withdrawn into the lock casing

Switching function B: Door handle inside and outside. The outside door handle has no-load operation with locked door.

With the internal door handle the locked door can be opened in the panic function. After operation the

internal door handle is unlocked and the door can from the inside, however not from the outside be opened.

Switching function D (rescue function): Door handle inside and outside. The outside door handle has no-load

operation with locked door. With the internal door handle the locked door can be opened in the panic function.

After operation the internal door handle is unlocked and the door can from the inside, and the outside be opened.

Alternative function E: Door handle only inside. Trap manipulation from the outside only with the key can open.

Panic function from the inside (emergency exit function).

7403 Panic lock DIN left

7404 Panic lock DIN right

for door with escape function DIN EN 179
and reciprocal door handle, panic function B (D available),
Pusher nut divided, stainless steel 9 mm, mandrel 34 mm,
Latch plate 15 mm
Case without rotation, stainless steel 24 x 6 mm,
Qt= 1 piece

7403 01 Panic lock DIN left

7404 01 Panic lock DIN right

Like previous but with mandrel 39 mm for 7410

7403 40 Panic lock DIN right/left

like 7403/7404, however panic function E,
case with rotation, Door handle inside/outside

7403 41 Panic lock DIN right/left

Like previous but with mandrel 39 mm for 7410 DIN EN 1125

7403 50, 7403 51 Panic lock DIN right/left

as before 7403 40, 7403 41 panic function E, however additionally with secured trap. The trap
withdrawn with the key can be determined over a locking button

Important note:

DIN EN 179 (emergency exits)

Mortice lock/door catch

only with the certified fittings

0466 10 Door handle

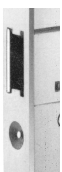
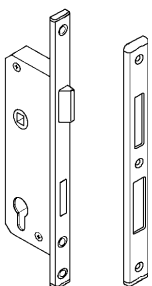
DIN EN 1125 (panic doors)

Panic mortice lock or panic

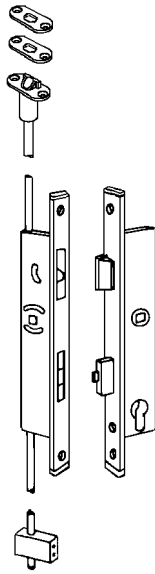
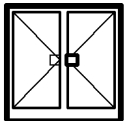
door catch only with the

certified fittings:

7410/7411

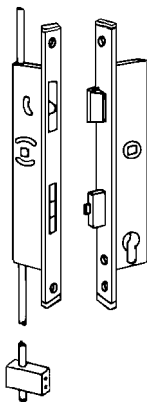
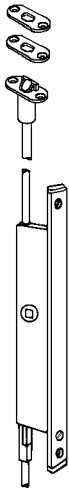


Detail:
Secured trap



Hint:

With full panic function use sash driver 0465(0465 10)



7406 panic door catch (moving sash DIN right)

7407 panic door catch (moving sash DIN left)

for double swing doors with emergency function DIN EN 179, completely with: Panic mortice lock for moving sash, panic function B (panic function D available), for reciprocal door handle, square pin 9 mm,

Thorn 34 mm, latch plate 15 mm ,

Case stainless steel 24 x 6 mm

Panic lock with driving latch plate for automatic bolting device of sash, galvanized, mandrel 34 mm for emergency

exit function with door handle, square pin 9 mm per 1050 mm door handle height Latch and catch rod driver

O.U. = 1 piece

7406 01/7407 01 special equipment for bar fitting 7410, 7411

according to DIN EN 1125 panic mortice lock with 39 mm mandrel and

to the sash panic driving latch plate lock with 40° turning way on 1050 mm height.

7406 40 Panic door catch DIN right/left

like 7406/7407, however with panic function E

7406 41 special equipment for bar fitting 7410, 7411 according to DIN EN 1125

with 39 mm thorn and to the sash panic driving latch plate lock with 40° turning way on 1050 mm height.

7406 50 Panic door catch DIN right/left

Like 7406 40 panic function E, however additionally also secured trap statement. The trap withdrawn with the key

7406 51 special equipment for bar fitting 7410, 7411 according to DIN EN 1125

with 39 mm thorn and to the sash panic driving latch plate lock with 40° turning way on 1050 mm height.

7408 panic door catch (moving sash DIN right)

7409 panic door catch (moving sash DIN left)

like 7406/7407 panic function B (panic function D available), however additionally with returning lock to the sash

thorn 34 mm, emergency exit function DIN EN 179 square pin 9 mm square per 1500 mm height.

O.U. = 1 piece

7408 40 panic door catch DIN right/left

like 7408/7409, however panic function E, case with rotation, Door handle inside/outside

7408 50 panic door catch DIN right/left

as before 7408 40 panic function E, however additionally also secured trap .

The trap withdrawn with the key

7408 60 panic door catch (moving sash DIN right)

7409 60 panic door catch (moving sash DIN left)

like 7408/7409, however panic function E and additionally also in Panic driving latch plate lock for electrical door opener, voltage AC/DC 6-12 V, driving latch plate lock and returning lock thorn 30mm, emergency exit function DIN EN 179

9 mm square pin per 1500 mm height.

7408 70 panic door catch (moving sash DIN right)

7409 70 panic door catch (moving sash DIN left)

like 7408 60/7409 60 panic function E and electrical door opener, however additionally with secured trap statement.

The trap withdrawn with the key

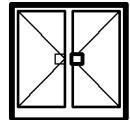
Special equipment for electrical door opener on request available

7552 Apostate

from black plastic, for panic mortice lock within the range of case O.U. = 1 piece

7552 10 Apostate

from black plastic, for electrical door opener within the range of case O.U. = 1 piece



Important note:

DIN EN 1125 (panic doors)
Panic mortice lock or panic door catch only with certified fittings :

0466 10

0466 10 Door handle
from aluminum,
oval rosette
stop mechanism,
visible attachment,
for 9 mm square pin, anodized
O.U. = 1 piece

0466 11 Door handle
Like previous but stainless steel

0466 14 Door handle
Like previous but in white colour

0466 17 Door handle
Like previous but dark bronze anodized

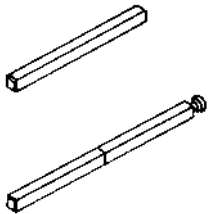


0466 30 Rosette
For cylinder profile, from Aluminium 7 mm height,
32,5 x 70 mm, visible attachment ,
EV 1 anodized
O.U. = 1 piece

0466 31 Rosette
Like previous but stainless steel

0466 34 Rosette
Like previous but in white colour

0466 37 Rosette
Like previous but dark bronze anodized



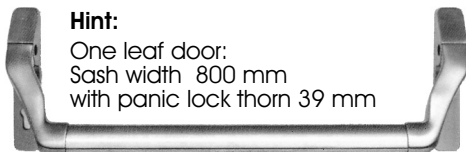
0467 10 Square pin 9 mm
Pin 9 x 80 mm,
O.U. = 1 piece

0468 Divided square pin 9 mm
For inside and outside door handle

0468 20 Divided square pin 9 mm
For inside door handle bar and outside door handle

Important note:

DIN EN 1125 (panic doors)
Panic mortice lock or panic door catch only with certified fittings :
7410/7411



Hint:

One leaf door:
Sash width 800 mm
with panic lock thorn 39 mm

Double swing door:
Partial panic function
Moving leaf width 800 mm
with panic lock thorn 39 mm

Because of the fulcrum
we recommend
to use door hinges



7410 Panic-Handle bar
with high retaining spring, suitable panic locks 7403 01, 7404 01, 7406 01, 7407 01...,
9 mm square pin, with handhold 1150 mm long
(sash width 1350 mm), with accessories
Aluminum EV1 anodized
O.U. = 1 piece

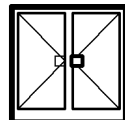
7410 01 Panic-Handle bar
Like previous but matt stainless steel

7411 Panic-Handle bar
for sashes, without PZ punching,
without high retaining spring
suitably panic door catches 7406 01, 7407 01, 7406 41, 7406 51
9 mm square pin, with handle 1150 mm long (leaf width 1350 mm),
Aluminum EV1 anodized
O.U. = 1 piece

7411 01 Panic-Handle bar
Like previous but stainless steel matt brushed

Emergency exits according to DIN EN 179 are not intended for public buildings,
if their visitor don't know the function of the emergency doors.
also exits of public buildings can be used only by authorized persons .

Panic doors according to DIN EN 1125 are certain appropriate for public buildings, in which the
visitors know the function of the escape doors like schools, hospitals .
Fitting elements have to be attached on the escape side of the door.

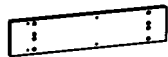


0330 Applied door closer DORMA TS 73 V

according to DIN EN 1154 A, Size EN 2 - 4, adjustable closing force for general doors to sash width 1100 mm, silver colour

O.U. = 1 piece

0330 04 Like previous but in white colour



0349 Assembly plate

for DORMA TS 73 V, silver colour

O.U. = 1 piece

0349 04 Like previous but in white colour

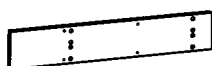


0331 Applied door closer DORMA TS 83

according to DIN EN 1154 A, Size EN 2 - 6, adjustable closing force for general doors to sash width 1400 mm, silver colour

O.U. = 1 piece

0331 04 Like previous but in white colour



0351 Assembly plate

for DORMA TS 83 V, silver colour

O.U. = 1 piece

0351 04 Like previous but in white colour

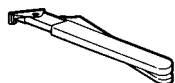


0332 Normal transmission

for **DORMA TS 73 V und TS 83**, silver colour

O.U. = 1 piece

0332 04 Like previous but in white colour



0332 20 Turning back arm

for **DORMA TS 73 V und TS 83**, silver color

O.U. = 1 piece

0332 24 Like previous but in white colour



0363 Applied door closer DORMA TS 93 B

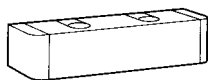
according to DIN EN 1154 A

Linear impulse and sloping opening moment, size EN 2 - 5, adjustable closing force for doors with sash width 1250 mm, (without sliding rail),

silver-colour

O.U. = 1 piece

0363 04 Like previous but in white colour



0380 Applied door closer DORMA TS 93 G

like previous, however door sash is assembled on volume opposite side (without sliding rail),

silver-colour

O.U. = 1 piece

0380 04 Like previous but in white colour



0364 Sliding rail DORMA G 93 - N

For one sash door, for turning back mechanism DORMA TS 93,

silver colour

O.U. = 1 piece

0364 04 Like previous but in white colour



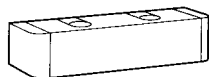
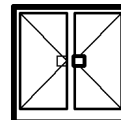
0364 10 Sliding rail DORMA G 93 - RF

For one leaf swing door, for turning back mechanism DORMA TS 93,

silver colour

O.U. = 1 piece

0364 14 Like previous but in white colour



0363 Door turning back mechanism DORMA TS 93 B

according to DIN EN 1154 A, Size EN 2 - 5, adjustable closing force for general doors to sash width 1250 mm, silver colour (without sliding rail)
O.U. = 1 piece

0363 04 Like previous but in white colour



0371 Sliding rail DORMA G 93 SR - G/O

according to DIN EN 1155 for double swing doors, Sliding rail (GSR) for the moving leaf (G) without connection for electromechanical EMF, overall height of 30 mm
O.U. = 1 piece

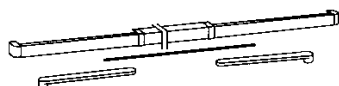


0372 Sliding rail DORMA G 93 SR-S

according to DIN EN 1155 for double swing doors, Sliding rail (GSR) for the sash (S) overall height of 30 mm
O.U. = 1 piece

0372 01 Sliding rail accessory

For sliding rail of G 93 SR-S



0373 Alignment kit with levers DORMA G 93 SR - V

For door width (A) 1350 to 2500 mm, overall height 30 mm, silver colour
O.U. = 1 piece

0373 04 Like previous but in white colour

Advice: DORMA G93 SR - VK (short) or VL (long) on request available



0380 Door turning back mechanism DORMA TS 93 G

Like previous without sliding rail silver colour
O.U. = 1 piece

0380 04 Like previous but in white colour



0381 Sliding rail DORMA G 93 SR - G / O / BG

according to DIN EN 1155 for double swing doors, Sliding rail (GSR) for the moving sash (G) overall height of 30 mm
O.U. = 1 piece

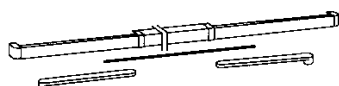


0382 Sliding rail DORMA G 93 SR -S/ BG

according to DIN EN 1155 for double swing doors, Sliding rail (GSR) for the sash (S) overall height of 30 mm

0372 01 Sliding rail accessory

For sliding rail of G 93 SR-S



0383 Alignment set with levers DORMA G 93 SR - V / BG

For door width (A) 1500 to 2500 mm, overall height 30 mm, silver colour
O.U. = 1 piece

0383 04 Like previous but in white colour

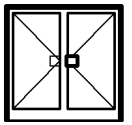


0465 Driver flap

For leaf width over 800 mm double swing door with full panic function, anodized, silver colour
O.U. = 1 piece

0465 10 Driver flap

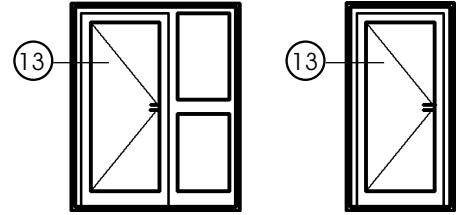
Like previous but for leaf width under 800 mm



Burglar protected-reinforced one leaf inward opening door.
Resistance class WK 1 according to DIN V ENV 1627
Proof 212 23152 of the 18.Juli 2000 ift rosenheim
statement 255 27823 of the 13.Januar 2004.
Short report if necessary please request.

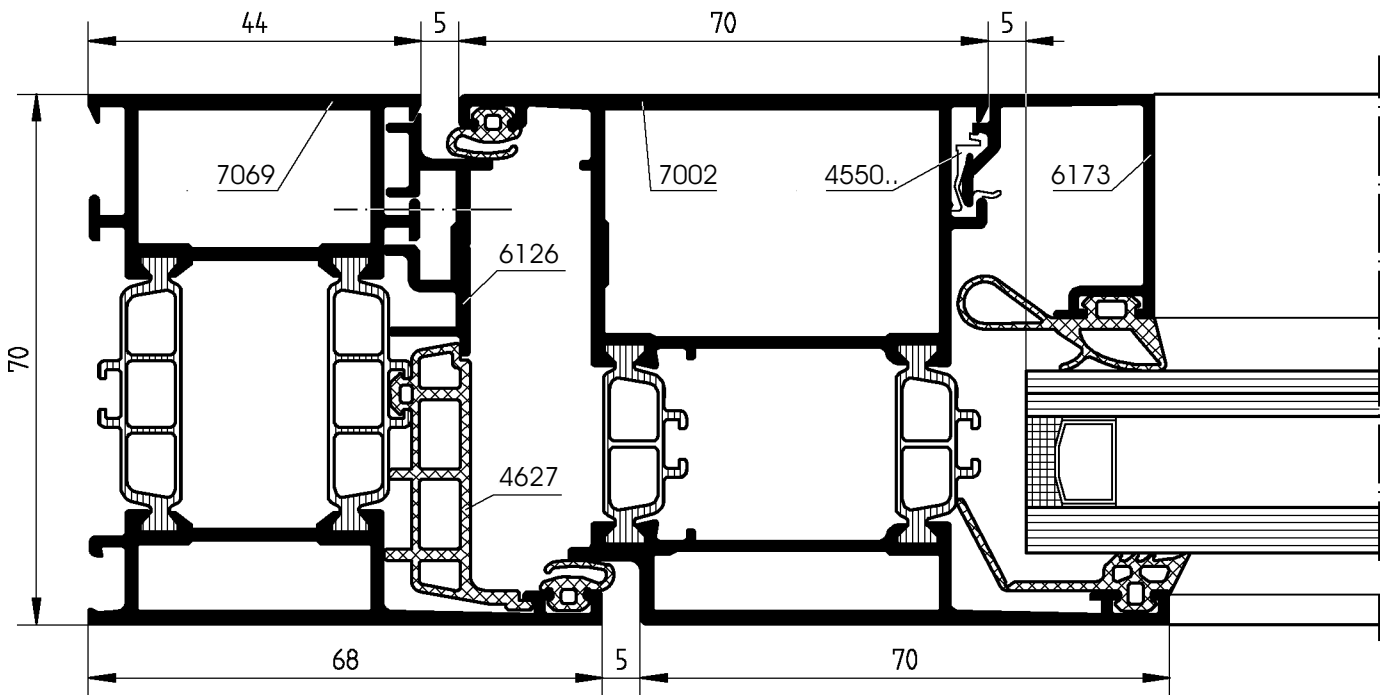
The appropriate profiles, locks, fittings, glazings
or fillings according to DIN

WK 1 - basic security - construction units of the resistance class 1
Basic protection against attempts by physical force such as raising and pulling out.
Glazing: Group safety glass VSG 6 mm
(minimum requirement) otherwise throw-restraining: DIN 52,290 - A1
or DIN EN 356 - P2A.
Safety entry door class WK 1 according to DIN V ENV 1627
The appropriate profiles, locks, fittings, glazings
or fillings according to DIN



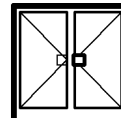
Resistance class WK 1

Section 13



Locks, accessories, profiles WK 1

- Accessories: according to DIN 18257 class ES1
- Cylinder profile: P2 BZ or P2 BS pulling protection
- Lock: Safety fivefold bolting device
- Closing plate: Stainless steel with or without electrical door openers
- Door hinge: 2 pieces of door hinge or more with the associated mounting kits
- Profile WK 1: All frames, mullion profiles and base profiles as well as standard door sash and normal glazing beads correspond to resistance class WK 1.



6467

Protection accessory ES 1 - ZA

for Profil 7002
burglar protected door
resistance class WK 1, DIN ENV 1627,
Accessory according DIN 18257
consisting of interior shield with pusher,
external shield with oval stud
Square pin 8 mm,
for cylinder profile 0312 04,
silver colour anodized
O.U. = 1 piece

6467 04

Protection accessory ES 1 - ZA

Like previous but in white colour

6467 01

Protection accessory ES 1 - ZA

Like previous but stainless steel



6467 11

Protection accessory ES 1 - ZA

Like 6467 01 stainless steel,
But with square pint 9 mm for
7421 10 five point lock
O.U. = 1 piece

6414 24

Protection accessory

for profile 7002 (WK 1)
tested with anti-burglar door
WK 1, according to DIN ENV 1627,
consisting of interior shield also
KS cover and KS pusher
round form, colour white,
hardened steel pre-chamber guard plate
and PZ round rosette,
designed for cylinder profile 0310 02
with drilling and pulling protection,
and outside door handle with attachment
distance minimum 265 mm.
O.U. = 1 piece



6467 27

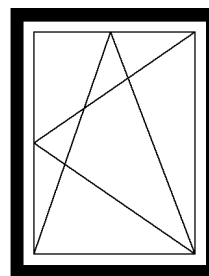
Protection accessory

Like previous but interior accessories in dark brown colour

6467 21

Protection accessory

Like previous but with stainless steel interior accessories



Windows

Turn and tilt windows
Turn and tilt windows-doors
Tilt and turn windows
Opening windows, Tilt windows
Rebate windows
Parallel-Tilt windows
Outer frames for windows
Renovative windows

Sykotherm
Series 70

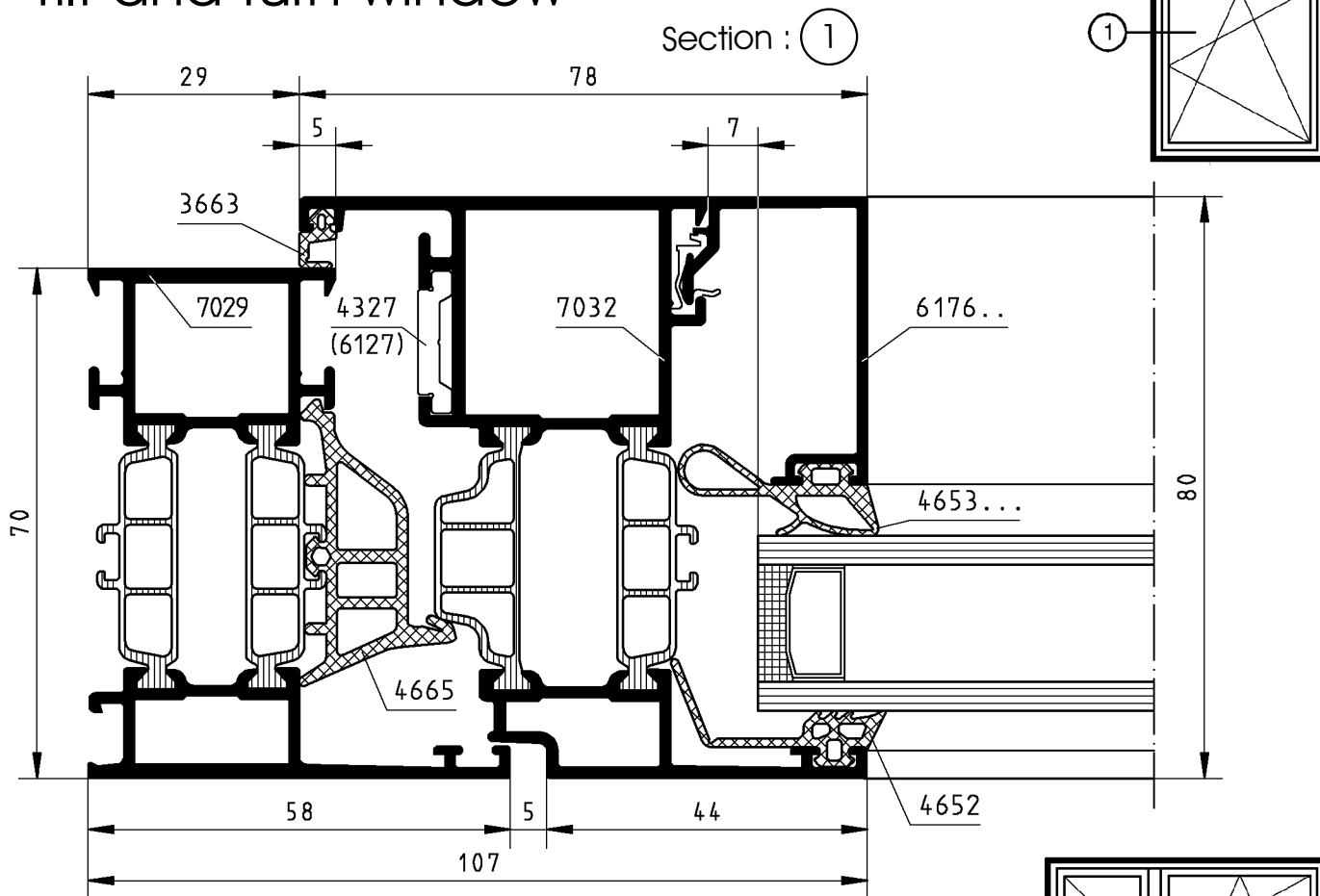


by



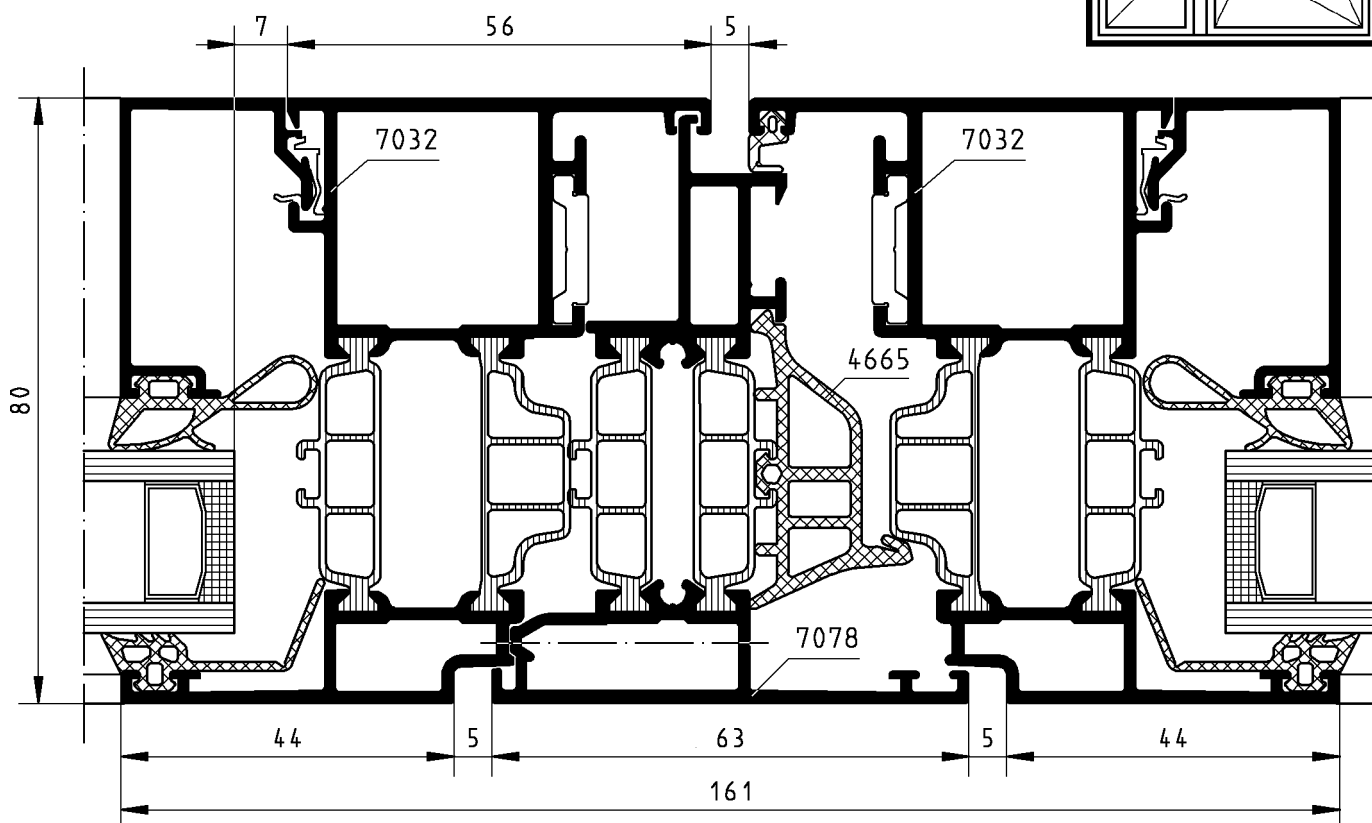


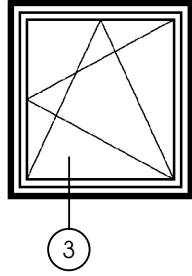
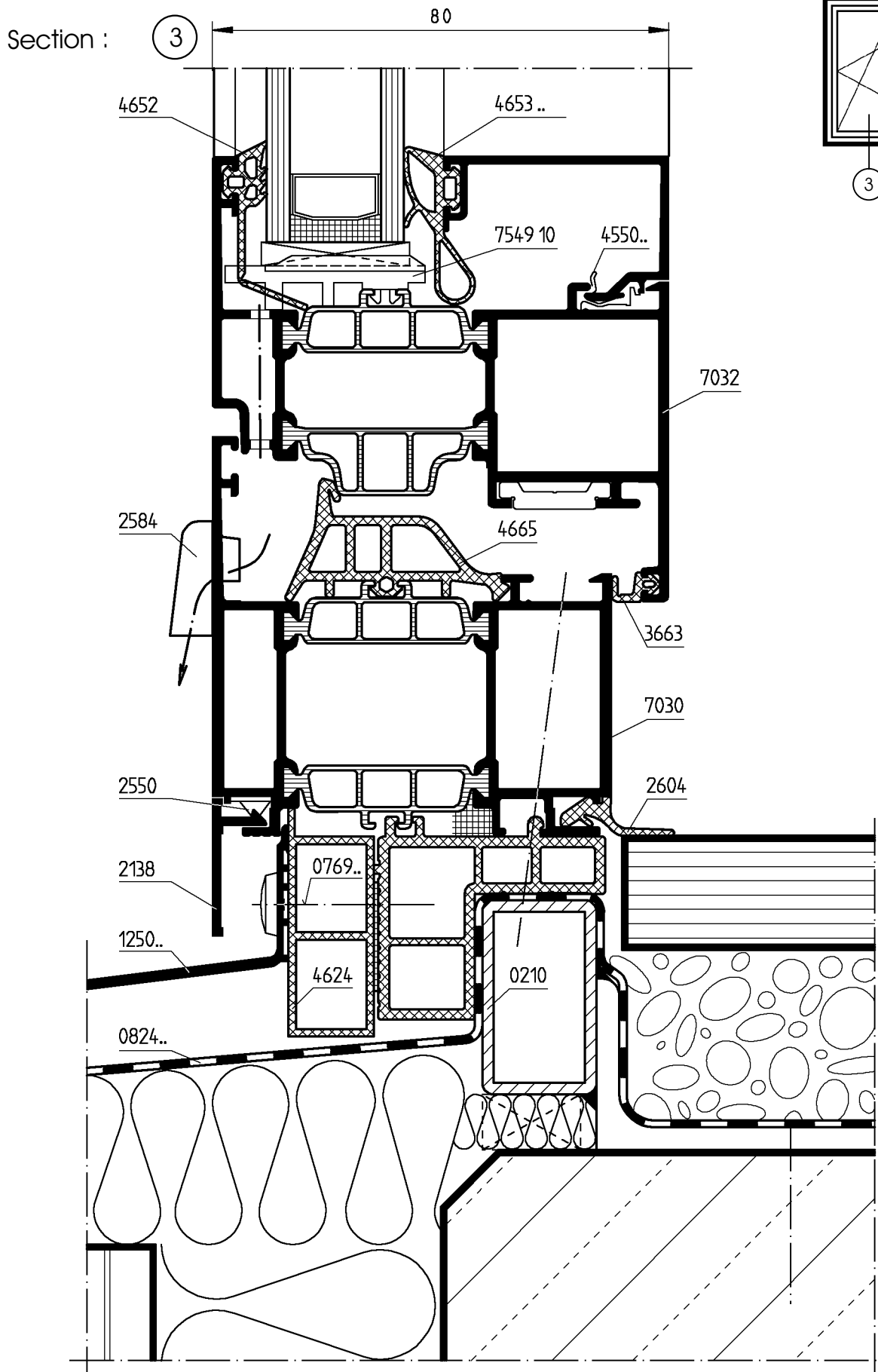
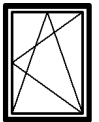
Tilt and turn window



Facing window

Section : ②

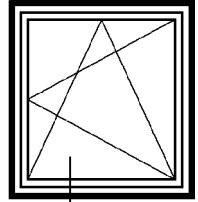
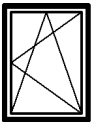




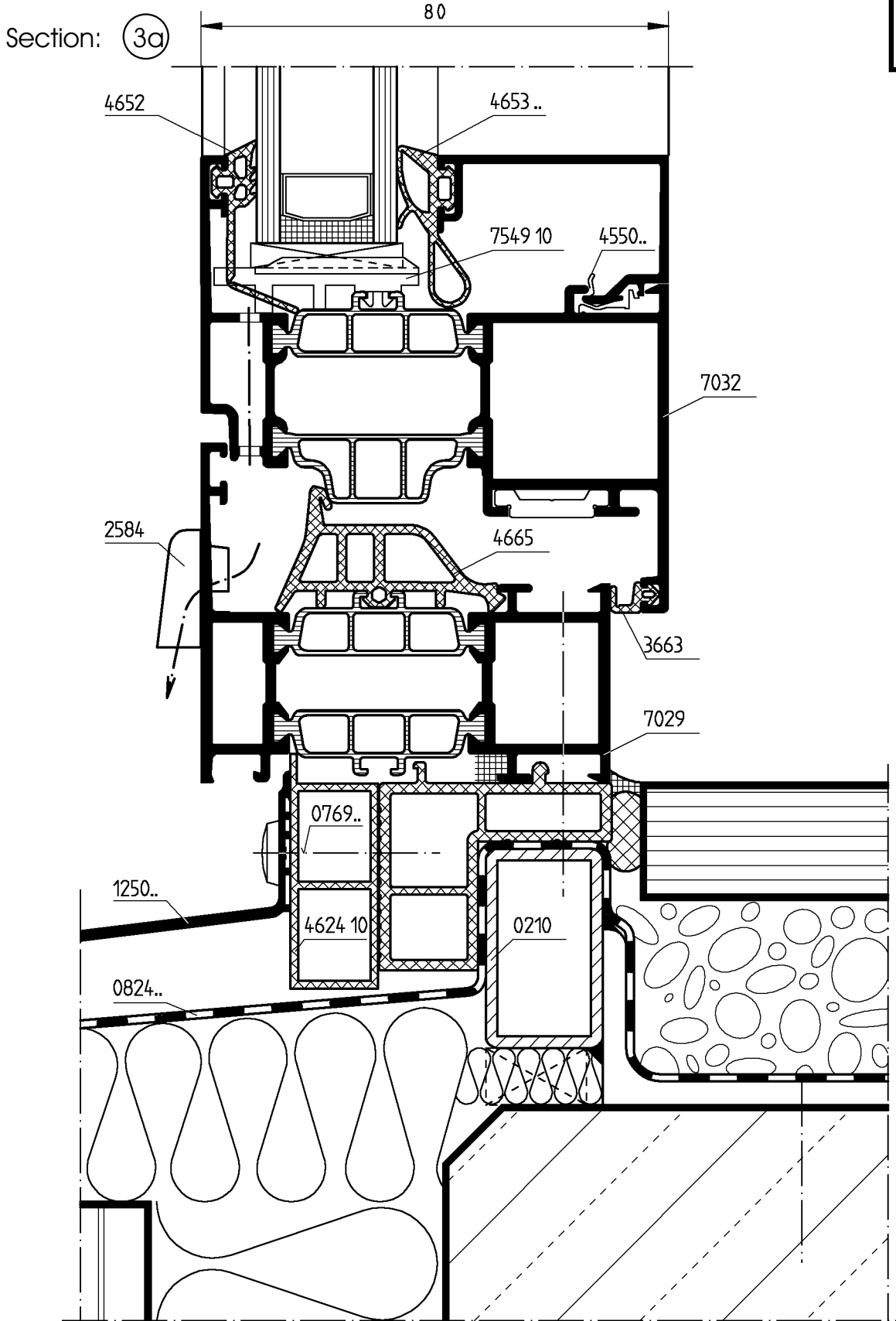
040917


isolation

Profile 4624
at the end must be isolated



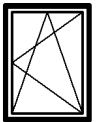
3a



 isolation

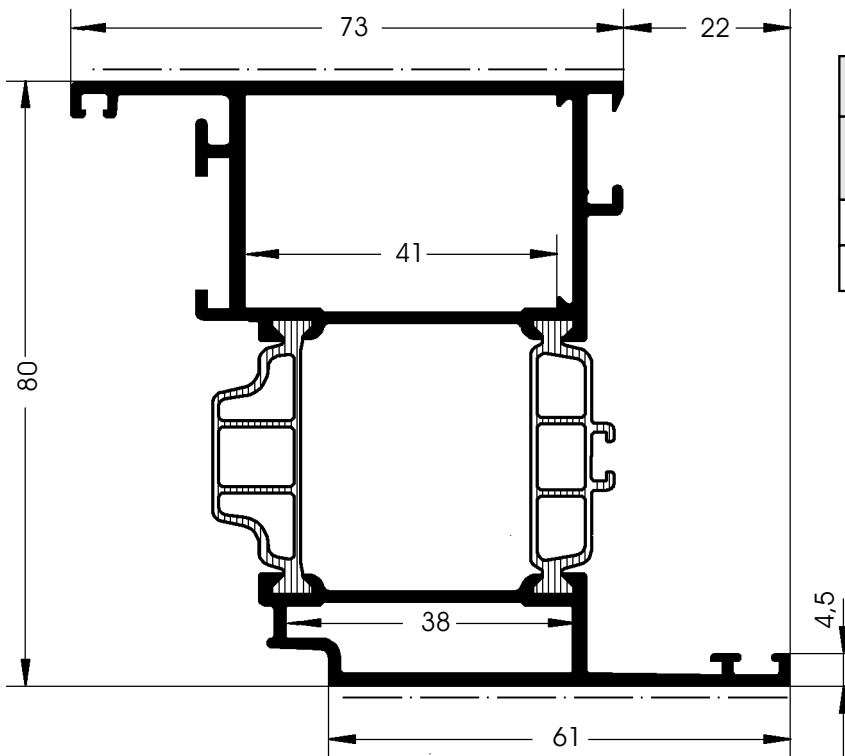
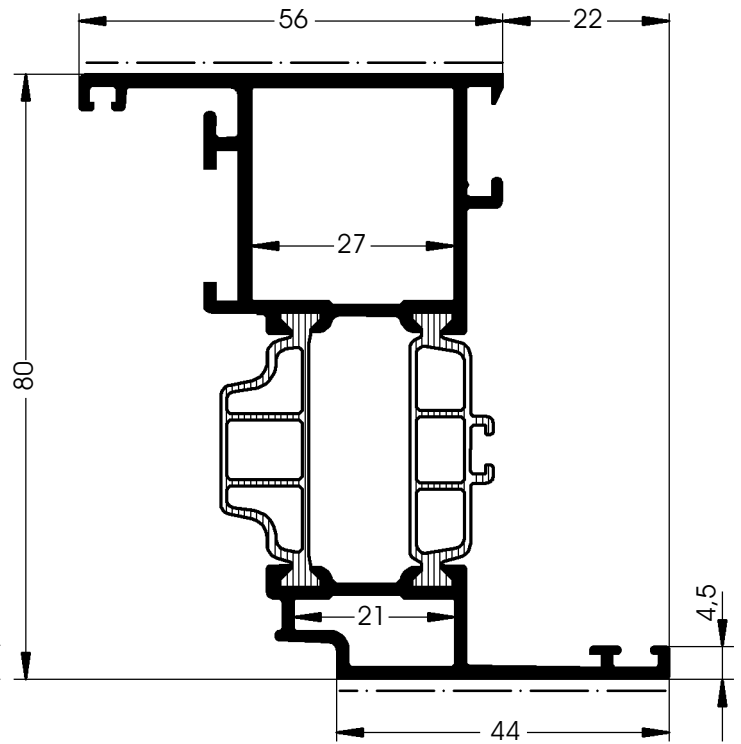
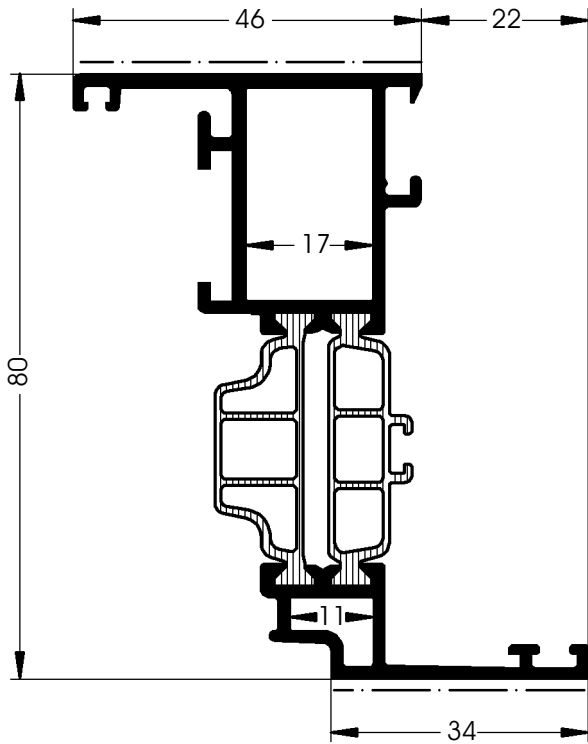
Profile 4624
 at the end must be isolated

040917

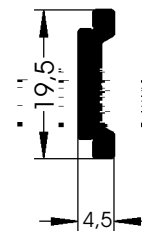


7035	Inside Profile	Outside profile
Measure units: (mm)		
Visible width: 79	46	33
Perimeter: 334	240	150
PE / NE Joint:	7513	7514
Pin for NE:	5500	-

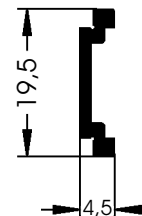
7032	Inside Profile	Outside profile
Measure units: (mm)		
Visible width: 99	56	43
Perimeter: 352	262	171
PE / NE Joint:	7515	7516
Pin for NE:	5500	5500



7025	Inside Profile	Outside profile
Measure units: (mm)		
Visible width: 132	72	60
Perimeter: 389	296	205
PE / NE Joint:	7517	7518
Pin for NE:	5500	5500



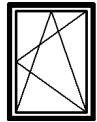
4327
Measure units: (mm)
Visible width: -
Perimeter: 51



6127
Measure units: (mm)
Visible width: -
Perimeter: 54

Rod for accessory
Alu 400 i

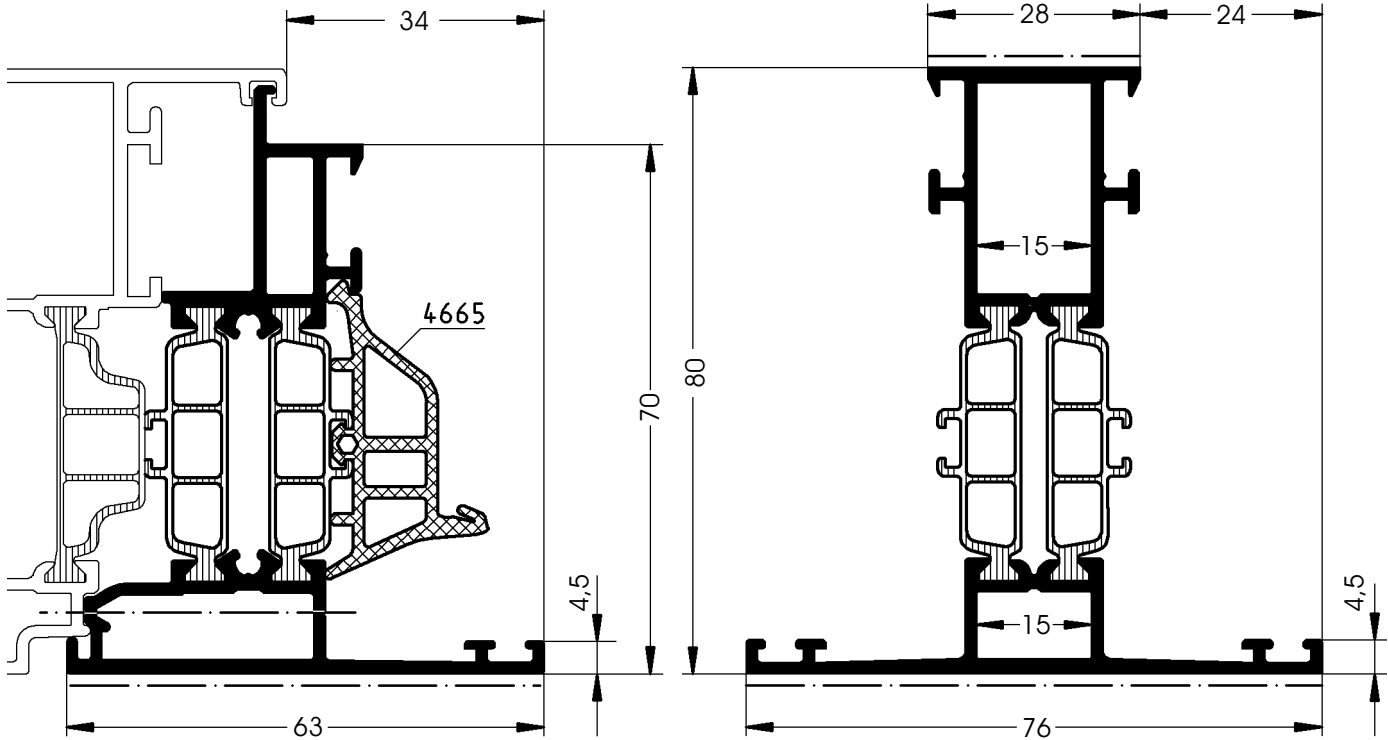
040917



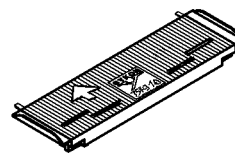
7078	Inside profile	Outside profile
Measure units: (mm)		
Visible width: 62		62
Perimeter: 285	163	202

7020	Inside profile	Outside profile
Measure units: (mm)		
Visible width: 104	28	76
Perimeter: 346	177	232
T-Joint	7525	7526 10
Pin for NE:	5500	5500
Impact seal:	4629 19	
Drilling plate for T-Joint:	4829	

7526 Mullion at mullion
7526 20 at sash 7024



7548
End part
End part for top and bottom connection of rebate profile to central gasket
black
O.U. = 1 couple



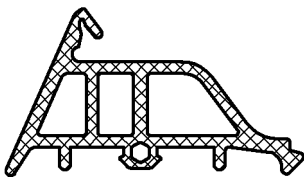
7549 10
Buffer
30 x 3 mm
Colour : light green
O.U. = 50 pieces



3663
Rebate gasket
black
O.U. = 200 m

3663 04
PVC-
Rebate gasket
white
O.U. = 100 m

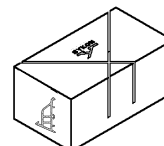
7549 20
Buffer
48 x 3 mm
colour: light rose
O.U. = 50 pieces



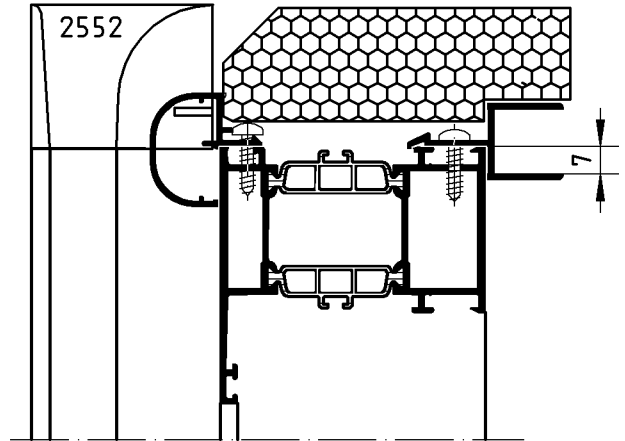
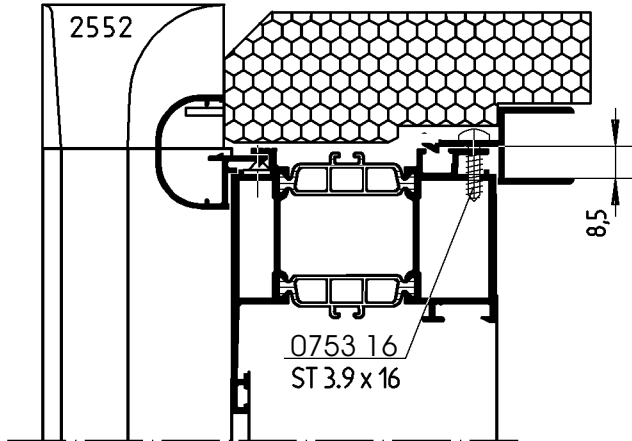
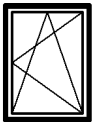
4665
For central gasket 4665
black
O.U. = 40 m

4665 10
Vulcanized square gasket
frames of central gasket 4665 (by order, is to indicate dimensions of interior fold frame LB and LH)
O.U. = 1 piece

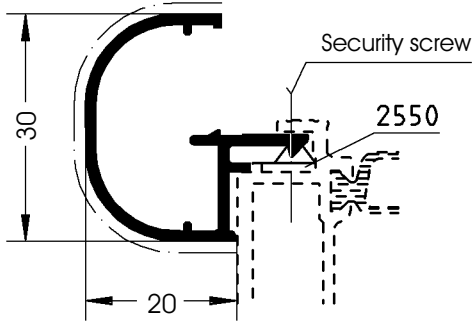
4665 20
Corner gasket
Of central gasket 4665,
O.U. = 20 pieces



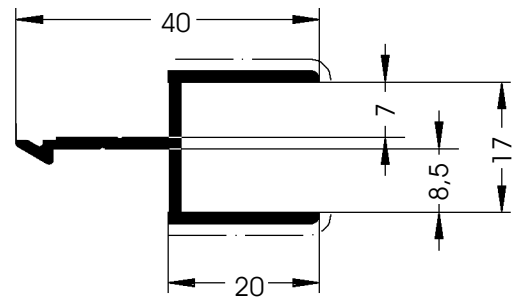
4813
Cutting device
for middle gasket 4665
O.U. = 1 piece



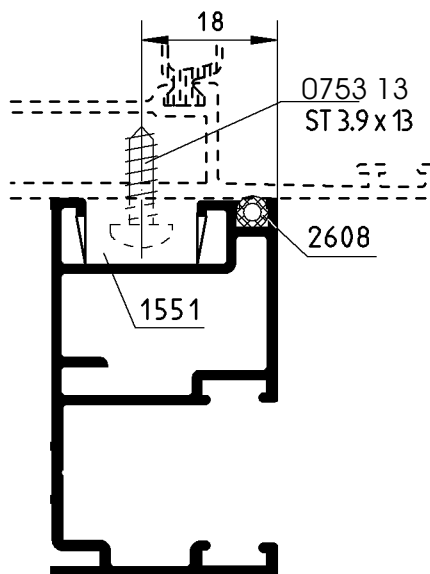
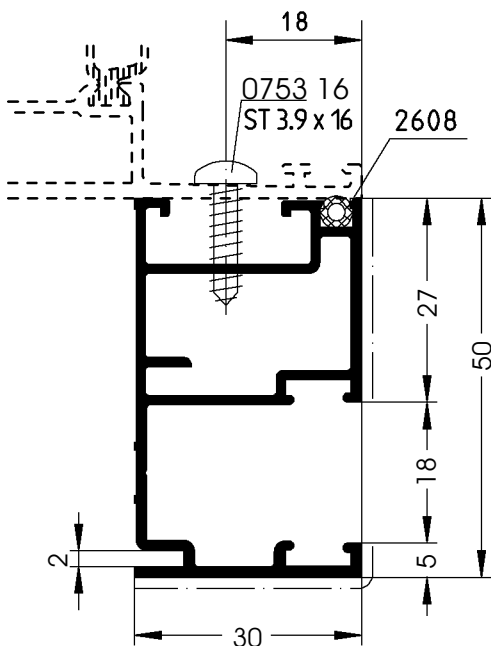
6146	
Evolute:	(mm)
Visible width:	55
Perimeter:	179



6147 10	
Evolute:	(mm)
Visible width:	40
Perimeter:	161



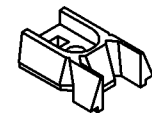
6144	
Evolute:	(mm)
Visible width:	62
Perimeter:	295

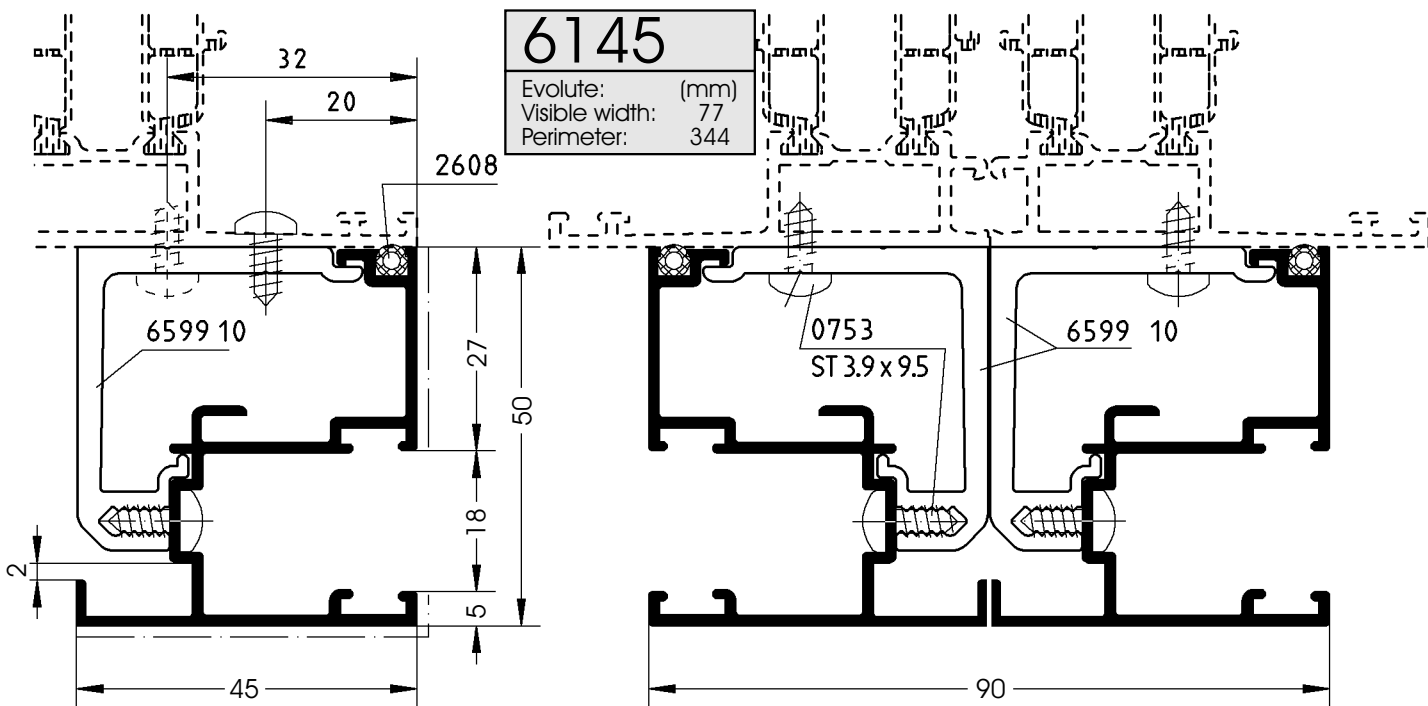


2550
Holder
4 pieces/m
O.U. = 100 pieces



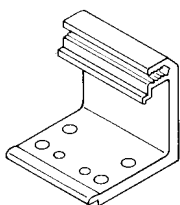
1551
Plastic holder
4 pieces/m
O.U. = 100 pieces





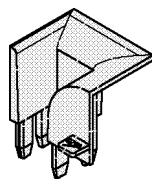
6599 10
Holder

For roller shutters
O.U. = 10 pieces



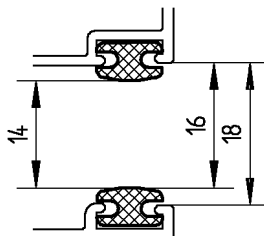
2552
Shutter driver

black
O.U. = 10 pair



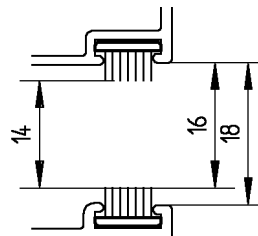
2629
Guide rail

black
O.U. = 4.5m



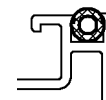
0601
Brush

grey
O.U. = 20 m



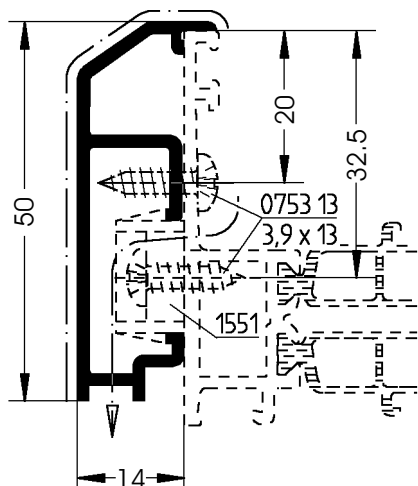
2608
Round gasket

black
O.U. = 100 m

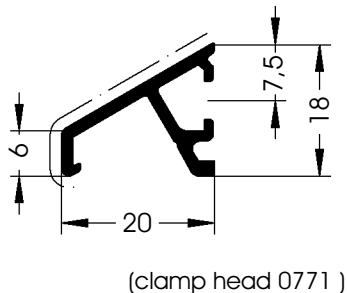


2303
Evolute: (mm)
Visible width: 64
Perimeter: 215

Threshold for balcony door

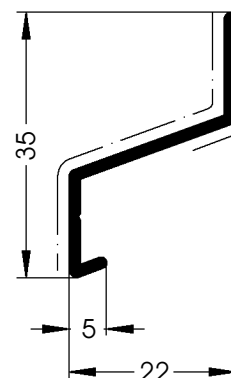


0101
Evolute: (mm)
Visible width: 30
Perimeter: 104



(clamp head 0771)

1120
Evolute: (mm)
Visible width: 56
Perimeter: 107

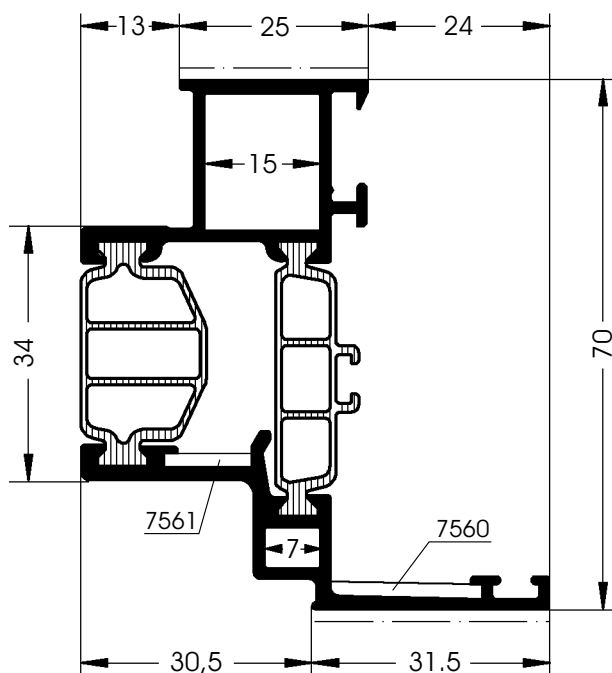
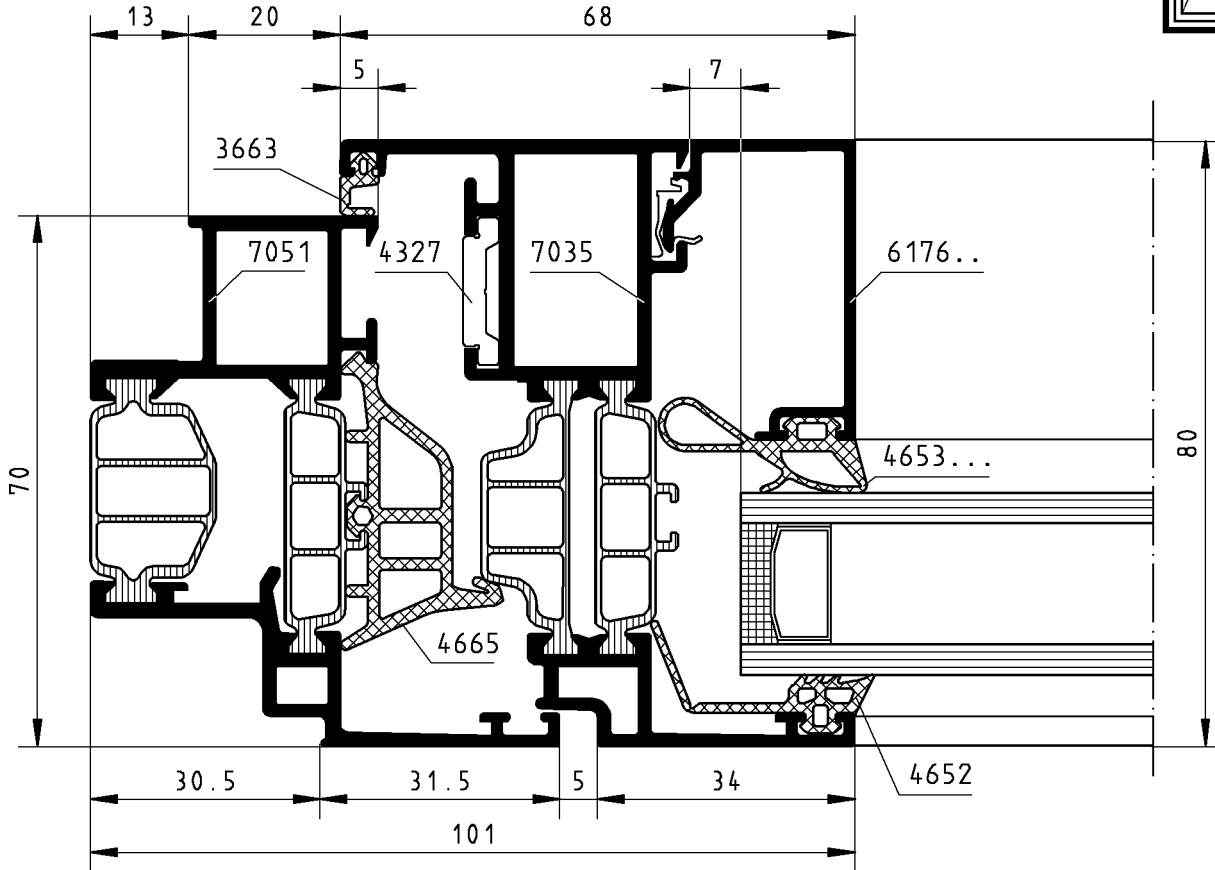
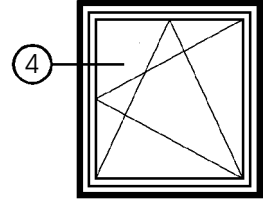




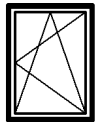
Tilt and turning window

Tilt window, Opening window

Section: ④



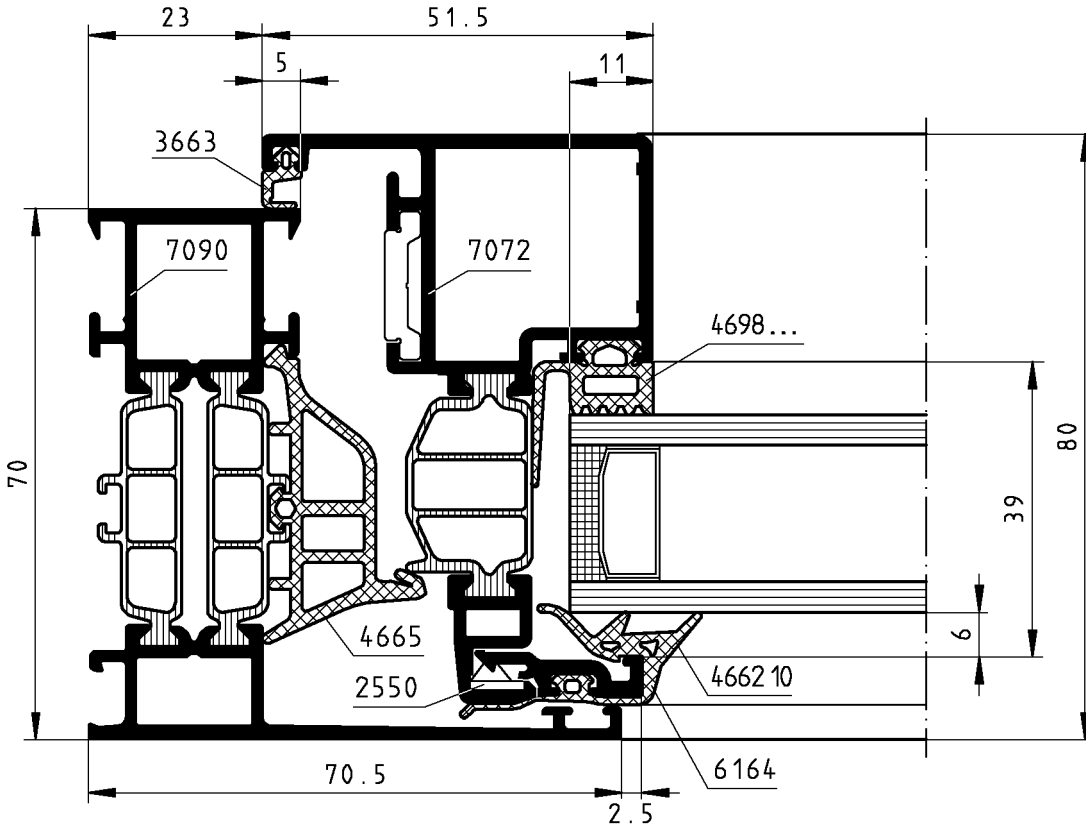
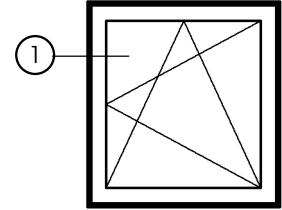
7051	Inside profile	Outside profile
Evolute: (mm)		
Visible width: 56	25	31
Perimeter: 266	168	211
PE Joint:	7501	7524
Pin for NE:	5500	
Corner joint:		7560, 7561



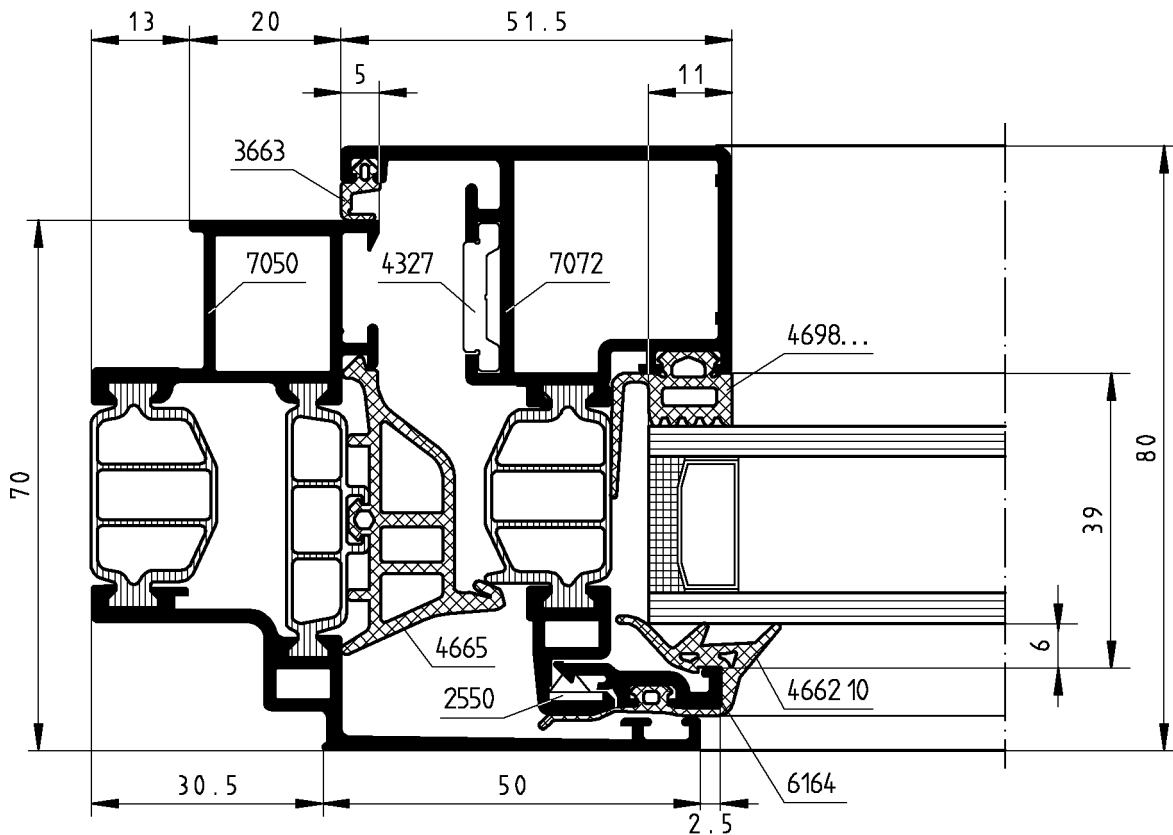
Tilt and turning window

Tilt window, Opening window

Section : ①

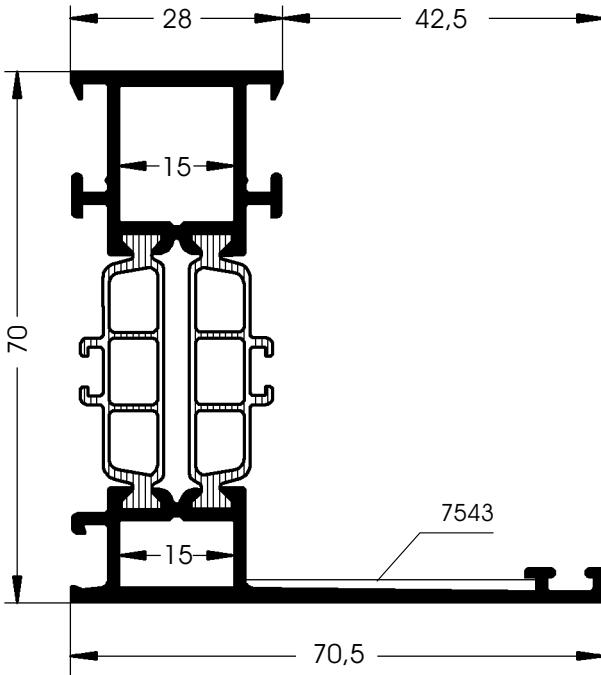


Window with projection frames in a curtain wall construction

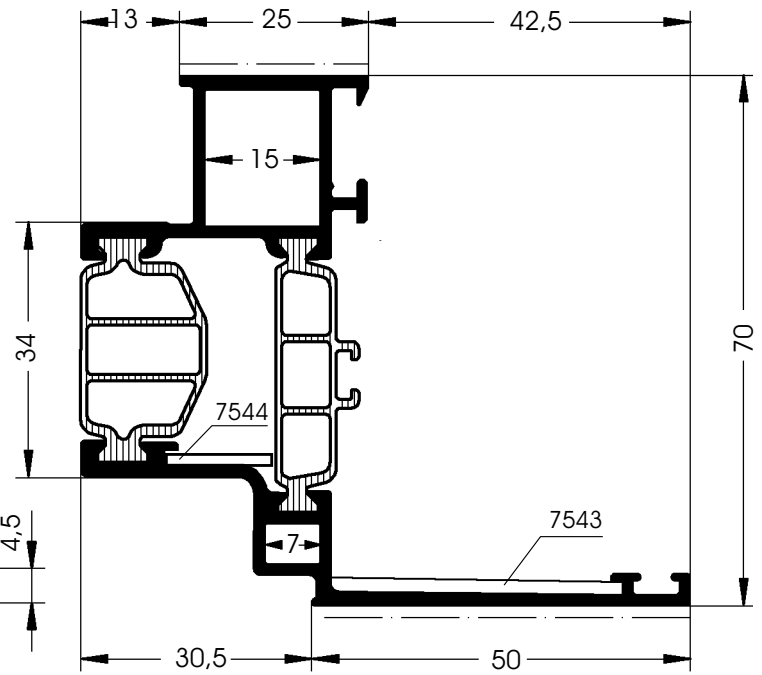




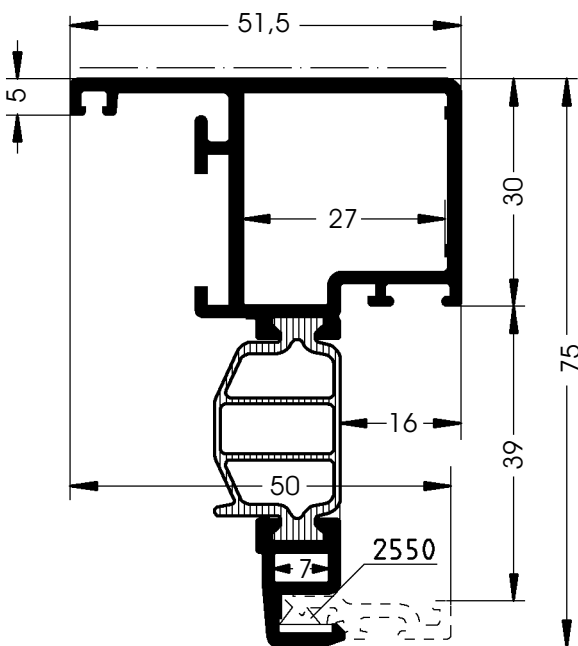
7090	Inside profile	Outside profile
Evolute: (mm)		
Visible width: 98	28	70
Perimeter: 317	164	217
PE / NE-Joint:	7501	7502
Pin for NE:	5500	5500
Corner joint:		7543



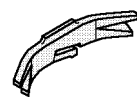
7050	Inside profile	Outside profile
Evolute: (mm)		
Visible width: 75	25	50
Perimeter: 306	168	238
PE / NE-Joint:	7501	PE 7524
Pin for NE:	5500	----
Corner joint:		7543 / 7544



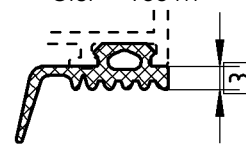
7072	Inside profile	Outside profile
Evolute: (mm)		
Visible width: 50	Two coloured profile not necessary.	
Perimeter: 293		
PE / NE-Joint:	7522	7523
Pin for NE:	5500	----



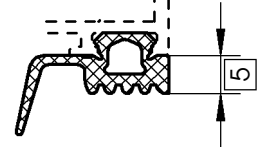
2550
Synthetic Holder
4 pieces/m
O.U. = 100 pieces



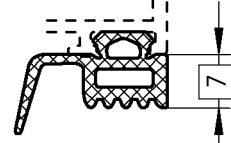
3696
Gasket
black (EPDM)
O.U. = 100 m



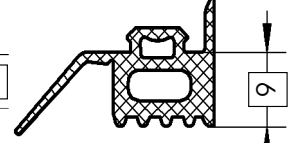
4697
Gasket
black (EPDM)
O.U. = 100 m



4698
Gasket
black (EPDM)
O.U. = 100 m



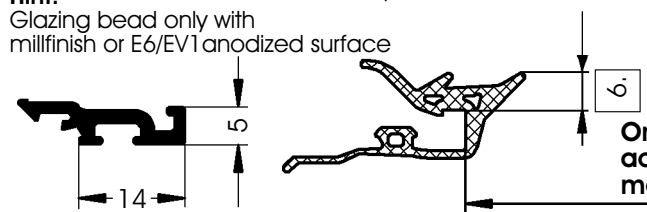
4679
Gasket
black (EPDM)
O.U. = 100 m



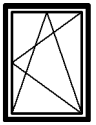
6164	Evolute: (mm)
	Visible width: -
	Perimeter: 72

Hint:
Glazing bead only with millfinish or E6/EV1 anodized surface

4662 10
Gasket
for profile 7072
black (EPDM)
O.U. = 1 piece



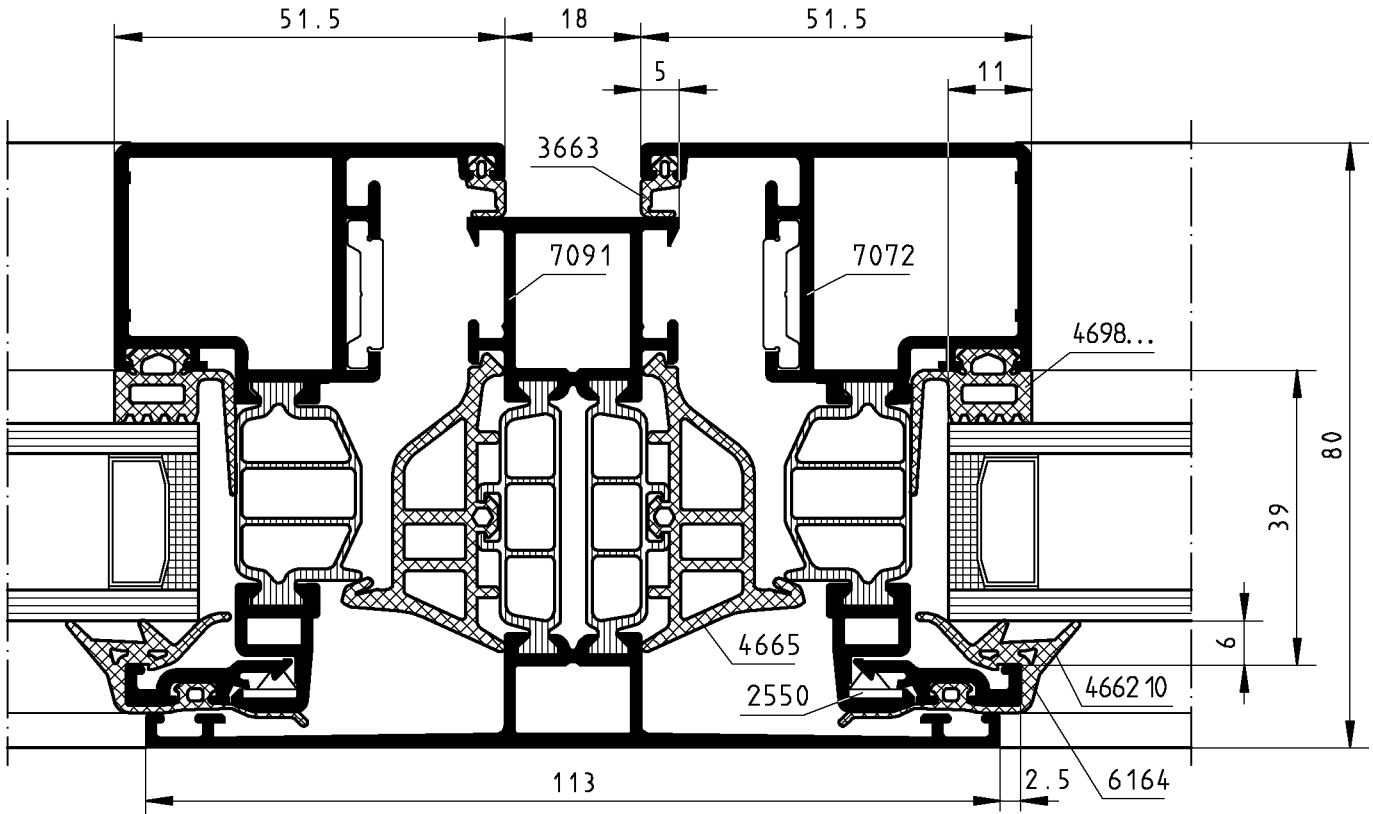
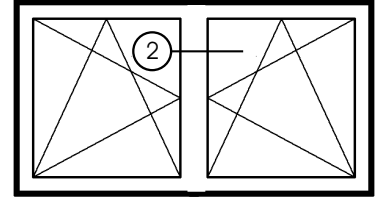
Order according measure



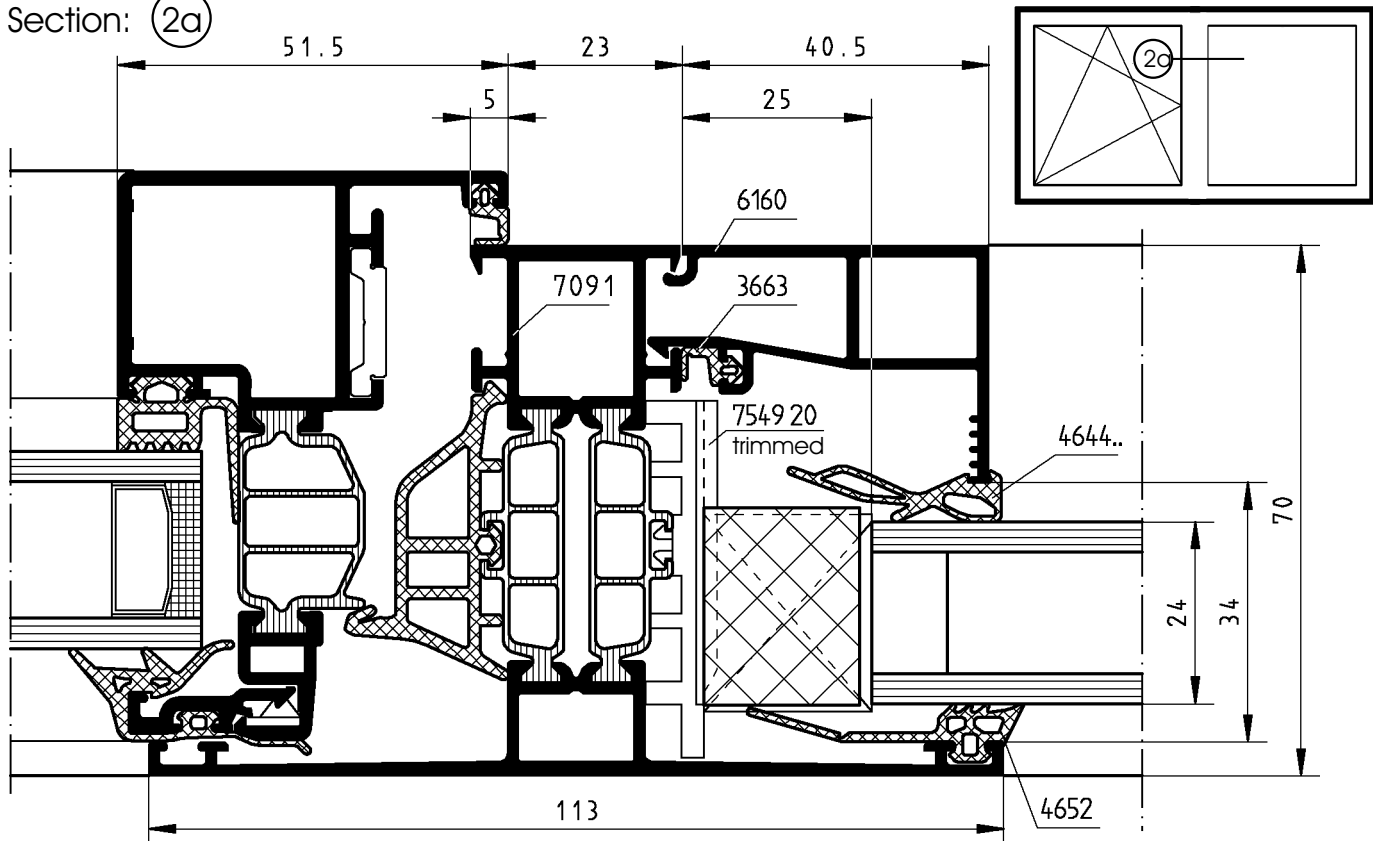
Tilt and turning window

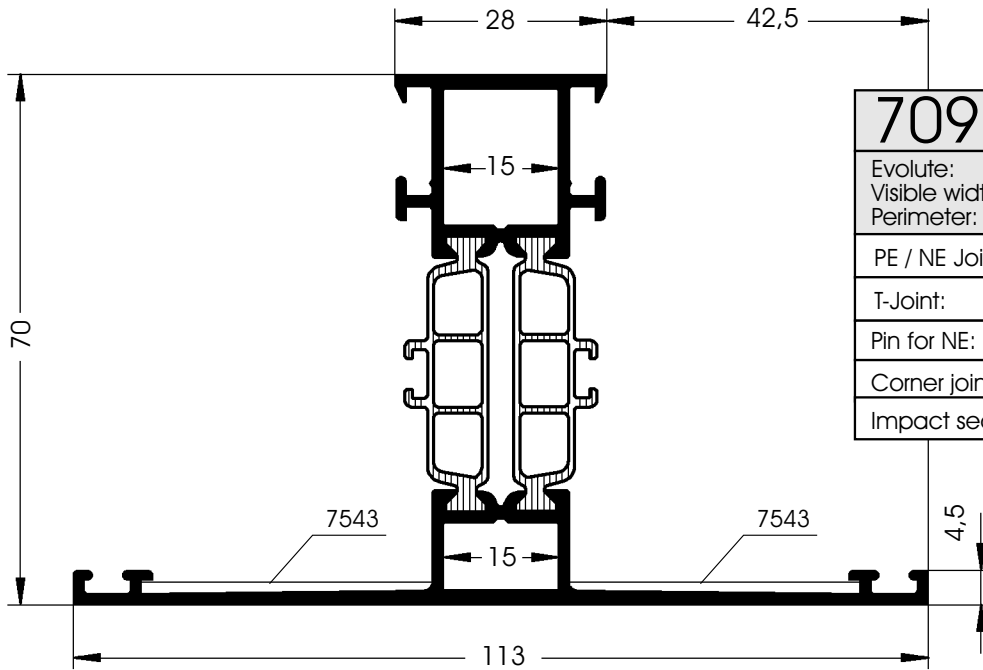
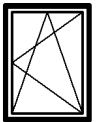
Tilt window, Opening window

Section : (2)

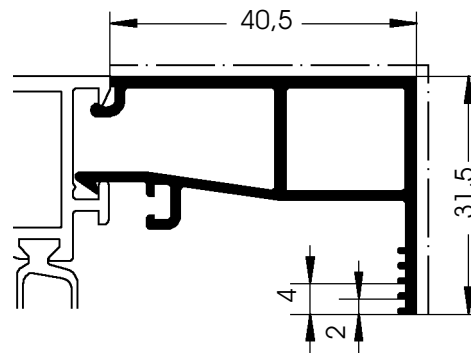


Section: (2a)



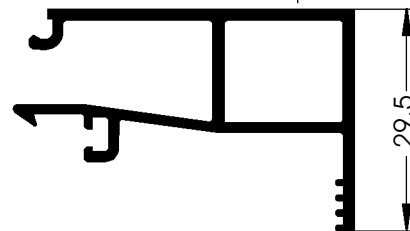


7091		Inside profile	Outside profile
Evolute:	(mm)		
Visible width:	141	28	113
Perimeter:	407	164	307
PE / NE Joint:		7501	7502
T-Joint:		7525	7526
Pin for NE:		5500	5500
Corner joint:			7543
Impact seal:		4629 19	

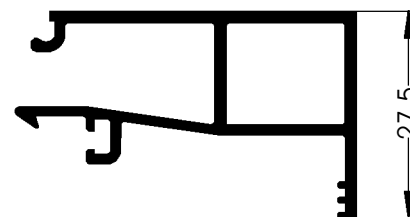


6160	
Evolute:	(mm)
Visible width:	72
Perimeter:	241

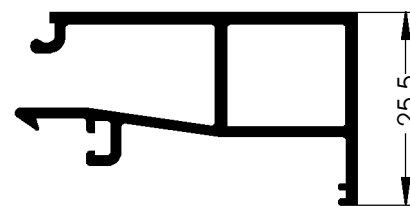
Glazing bead 6160 can be used for bigger glass thickness but trimmed



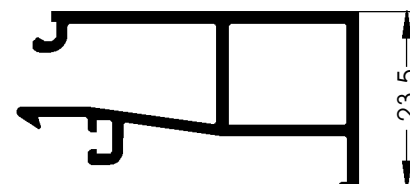
6160 10	
Evolute:	(mm)
Visible width:	70
Perimeter:	235



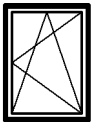
6160 20	
Evolute:	(mm)
Visible width:	68
Perimeter:	230



6160 30	
Evolute:	(mm)
Visible width:	66
Perimeter:	224

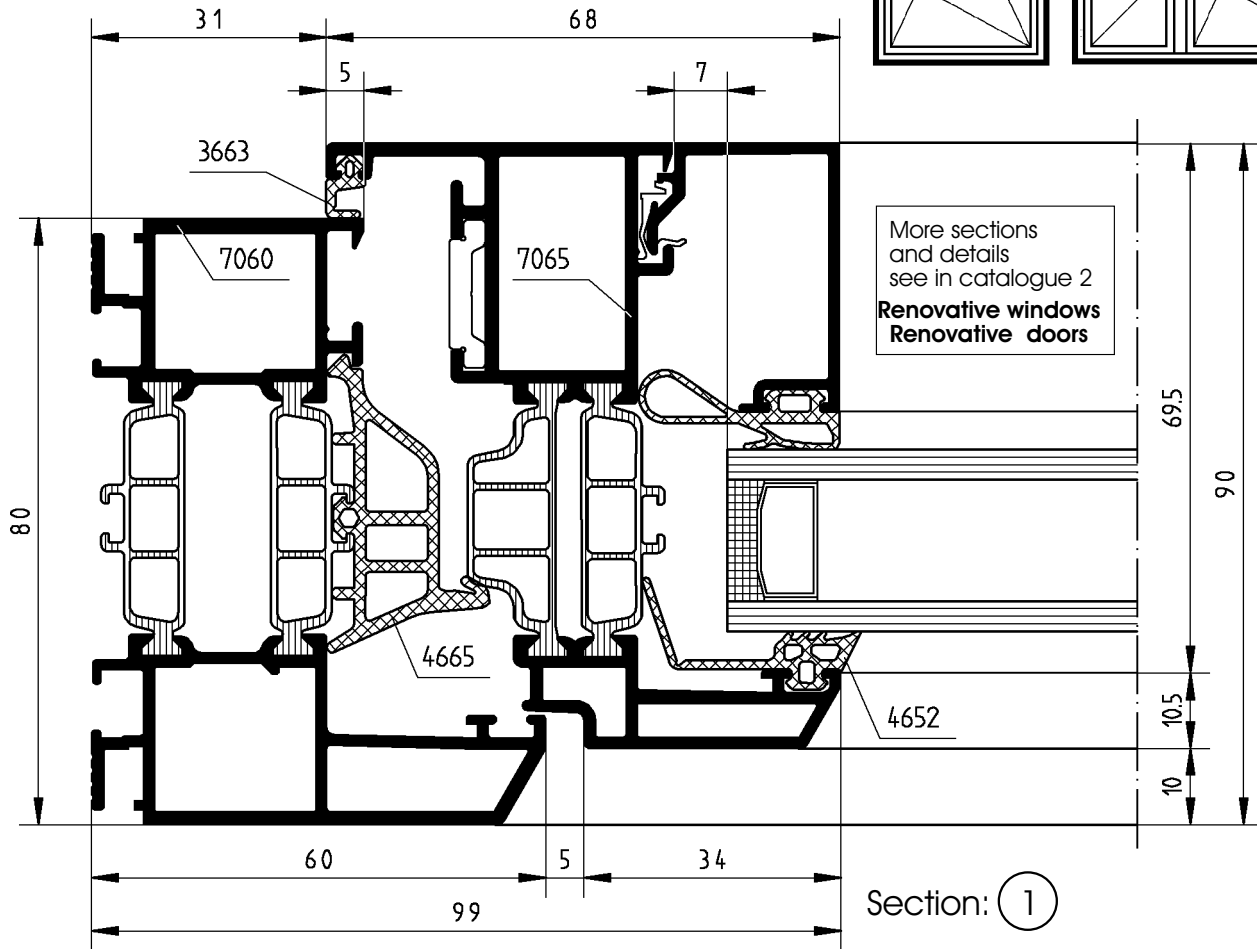
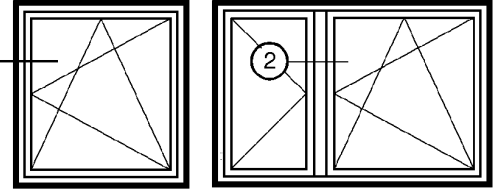


6160 40	
Evolute:	(mm)
Visible width:	64
Perimeter:	218

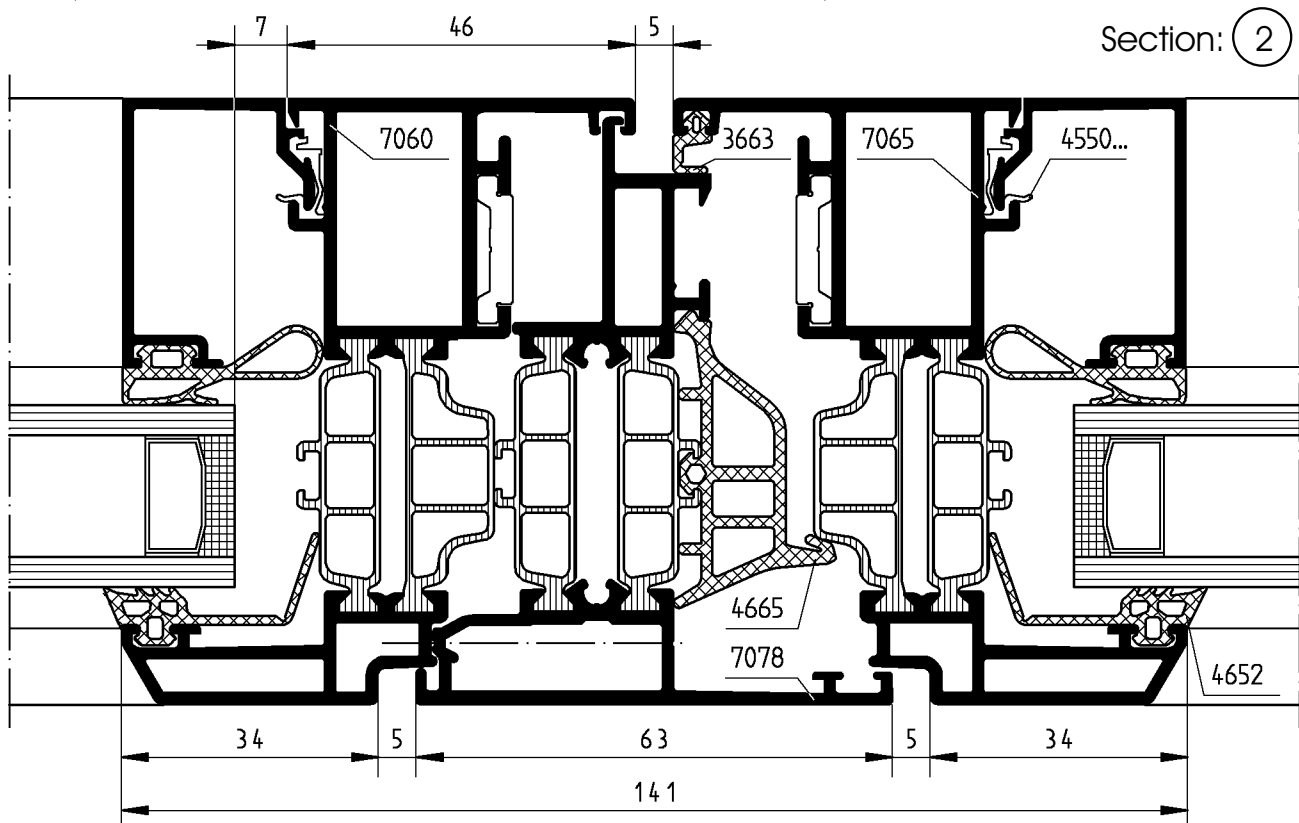


Tilt and turning window

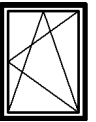
Tilt window, Opening window



Section: ①

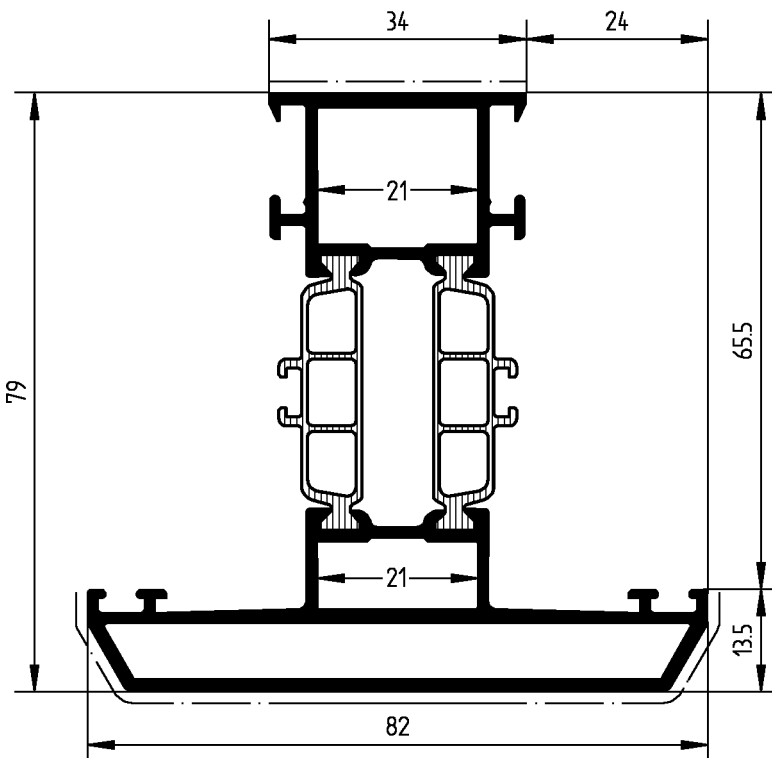
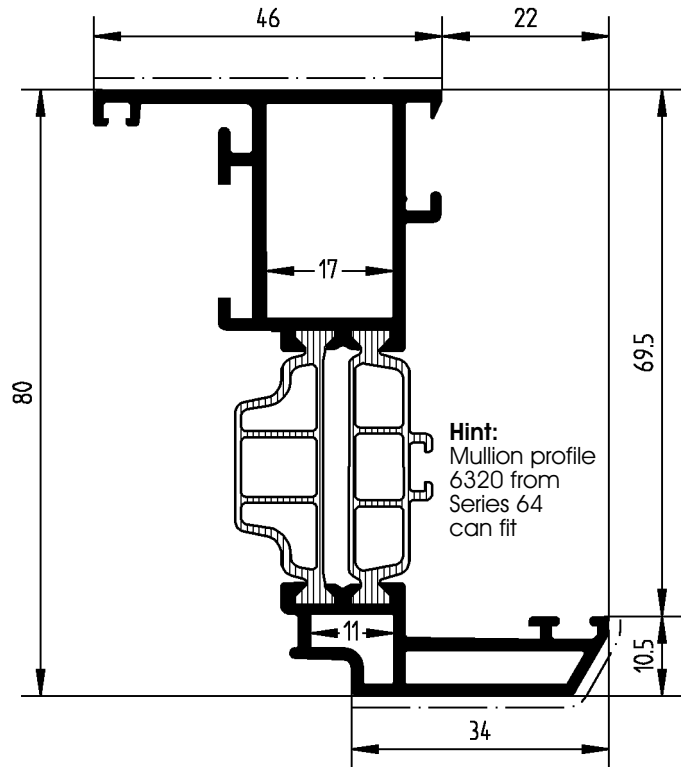
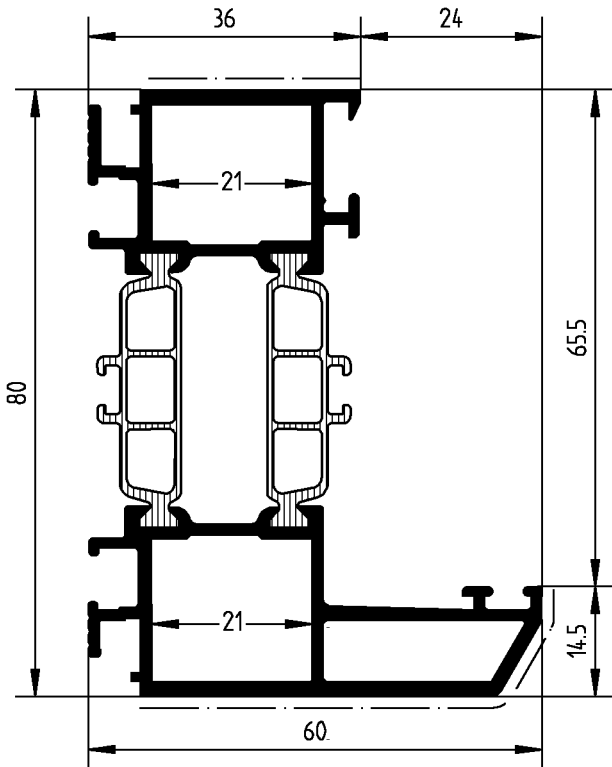


Section: ②



7060	Inside profile	Outside profile
Evolute: (mm)	29	58
Visible width: 87	194	238
Perimeter: 352		
PE / NE-Joint:	7503	7503
Pin for NE:	5500	5500

7065	Inside profile	Outside profile
Evolute: (mm)	46	38
Visible width: 84	240	145
Perimeter: 329		
PE Joint:	7513	7514
Pin for NE:	5500	

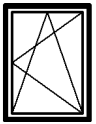


7061	Inside profile	Outside profile
Evolute: (mm)	34	91
Visible width: 125	177	255
Perimeter: 357		
PE / NE-Joint	7503	7504
T-Joint:	7527	7528
Pin for NE:	5500	5500
Buffer:	4629 25	

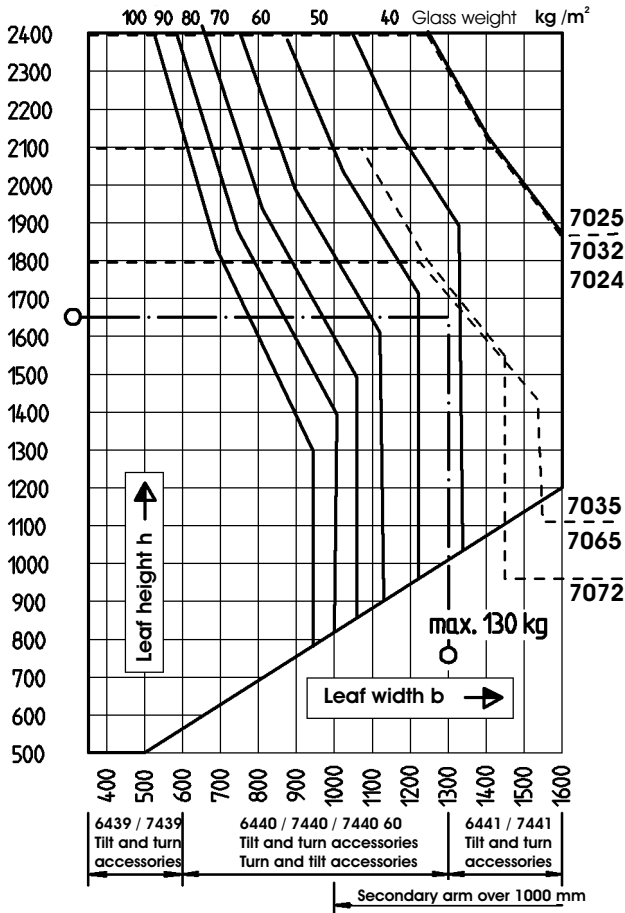
0883 01
Milling machine

For the cutting of T-profile from mullion profile 7061 and mullion profile 6320 from Series 64. Diameter 200 mm, appropriate for 0883 AKF 6/250

040917



Glass weight to 130 kg


 Leaf sizes for windows
 Maximum leaf weight = 130 kg

Profile	Leaf surface max.	Leaf width max.	
		unlocked	extra locked
7035	2,2 m ²	1200	1550
7032	3,0 m ²	1300	1600
7024	3,0 m ²	1300	1600
7025	3,0 m ²	1400	1600
7072	2,25 m ²	1200	1450
7065	2,2 m ²	1200	1550

Profil	Leaf height max.		Tilt and turning balcony door
	standard-locked	extra locked	
7035	1300	1800	leaf surface
7032	1400	2100	
7024	1300	2100	max. 2,2 m ²
7025	1400	2400	
7072	1300	2100	max. 2,1 m ²
7065	1300	1800	

Sizes in mm

Accessories:

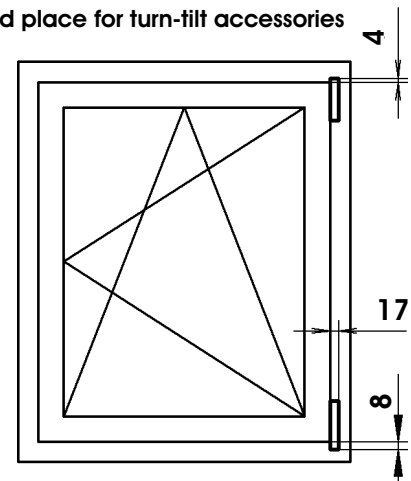
 Leaf width b 600 (403) to max. 1600 mm
 Sash height h 510 (454) to max. 2400 mm

According glass weights the permissible sizes are calculated based on diagrams.

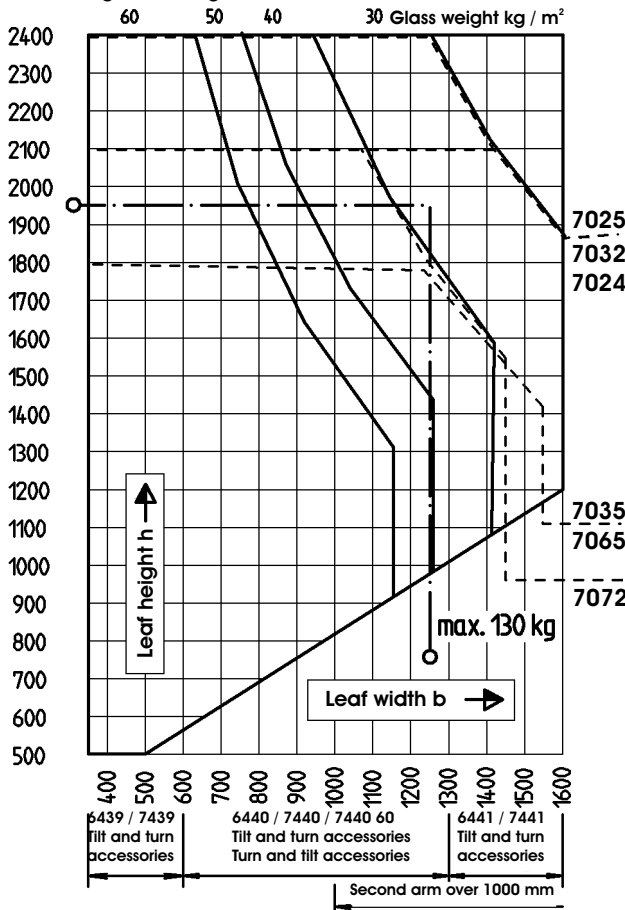
The profile limits must be calculated.

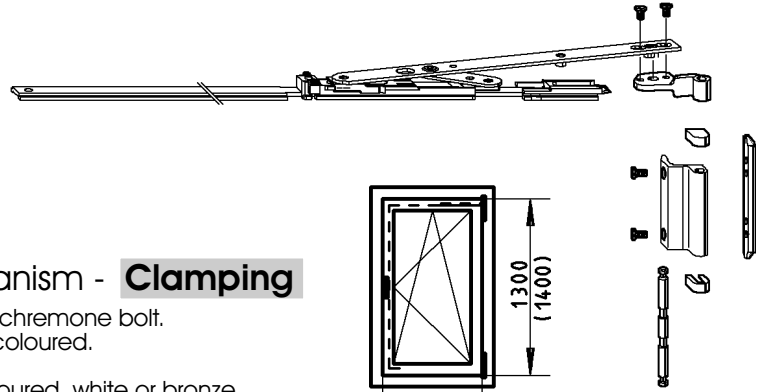
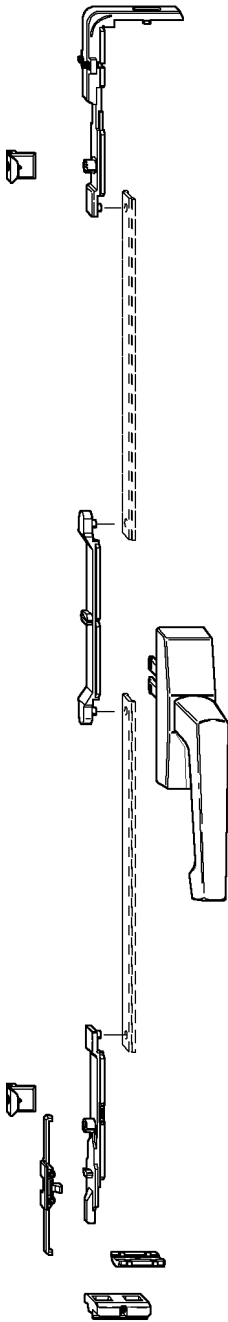
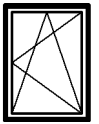
- Example : Window
 b = 1300 mm — — — — —
 h = 1650 mm — — — — —
 Permissible weight:
 Hinge 130 kg: max. 52 kg/m²
 Leaf: 7035, 7032, 7025 or 7072
- Example : Window
 b = 1250 mm — — — — —
 h = 1950 mm — — — — —
 permissible weight:
 Hinge 90 kg: max. 36 kg/m²
 Leaf: 7032 or 7025

Needed place for turn-tilt accessories



Glass weight to 90 kg

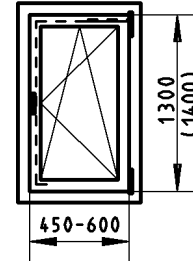




6439

Tilt and turn mechanism - Clamping

Can be used right/left with chromone bolt.
Fitting parts galvanized or coloured.
Opening width 150 mm.
Visible fitting parts silver coloured, white or bronze
Total leaf weight 90 kg
O.U. = 1 piece



Up to leaf size 600 x 1400 (2400) mm
from leaf height 1300 (1400) mm with additional locking.
See the leaf diagram



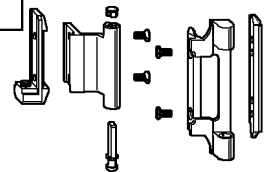
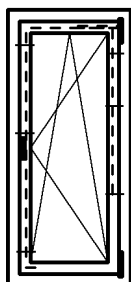
- | | | | |
|----------------|---|----------------|----------------|
| 6439 | Tilt and turn mechanism like previous, but silver | 6439 04 | 6439 07 |
| 6439 10 | Tilt and turn mechanism includes chromone bolt with lock | white | bronze |
| 6439 20 | Tilt and turn mechanism with gearing mechanism without chromone bolt | 6439 14 | 6439 17 |
| 6439 30 | Tilt and turn mechanism with round chromone bolt | 6439 24 | 6439 27 |
| 6439 40 | Tilt and turn mechanism includes round chromone bolt with lock | 6439 34 | 6439 37 |
| 6439 50 | Tilt and turn mechanism With covered gearing mechanism and faulty operation device, square pin 7 mm, without handle
Accessories are also in RAL colour by choice (Delivery time and purchase quantity on request). | 6439 44 | 6439 47 |
| | | 6439 54 | 6439 57 |

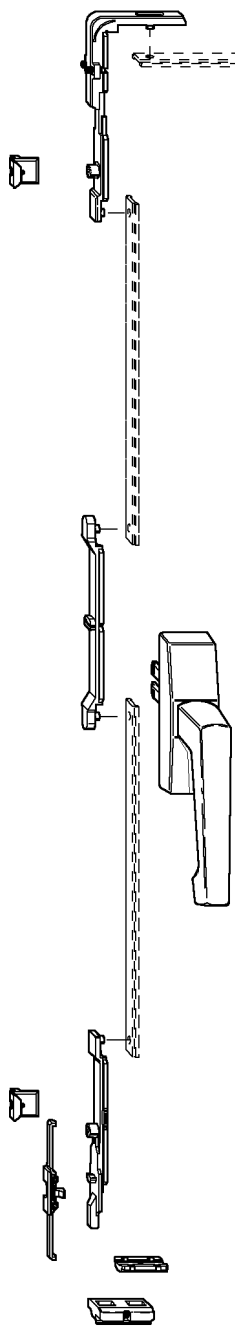
Leaf width 450 up to 600 mm
leaf height 510 up to 1400 (2400) mm (454-510 mm height with 5478).
Over leaf height 1300 mm with additional locking

- 5453** Additional locking 700
- 5453 10** Additional locking
- 5454** Vertical-Additional locking 2400
- or:
- 5452** Corner transmission
- 5456** Locking pin
- 5457** Locking safety
- 5478** Attached for chromone bolt
- 4327** Locking bar

Size specifications (in mm)

Profile	leaf height max.	
	standard locking	additional locking
7035	1300	1800
7032	1400	2100
7025	1400	2400
7072	1300	2100
7065	1300	1800

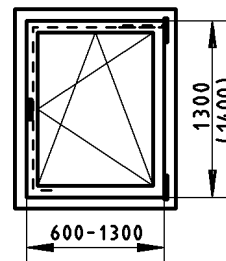




6440

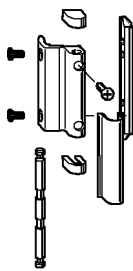
Tilt and turn mechanism - Clamping

Can be used right/left with chromone bolt.
Fitting parts galvanized or coloured.
Opening width 150 mm.
Visible fitting parts silver coloured, white or bronze
Total leaf weight 90 kg (130 kg)
O.U. = 1 piece



Up to leaf size 600 x 1400 (2400) mm
over leaf height 1300 (1400) mm with additional locking.
See the leaf diagram

- | | | | |
|----------------|---|----------------|----------------|
| 6440 | Tilt and turn mechanism like previous, but silver | 6440 04 | 6440 07 |
| 6440 10 | Tilt and turn mechanism includes chromone bolt with lock | white | bronze |
| 6440 20 | Tilt and turn mechanism with gearing mechanism without chromone bolt | 6440 14 | 6440 17 |
| 6440 30 | Tilt and turn mechanism with round chromone bolt | 6440 24 | 6440 27 |
| 6440 40 | Tilt and turn mechanism includes round chromone bolt with lock | 6440 34 | 6440 37 |
| 6440 50 | Tilt and turn mechanism With covered gearing mechanism and faulty operation device, square pin 7 mm, without handle | 6440 44 | 6440 47 |
| 6440 90 | Additional price | 6440 54 | 6440 57 |



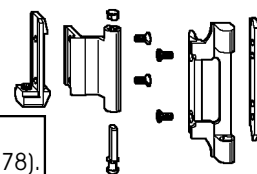
Leaf weight up to 130 kg



Accessories are also in RAL colour by choice (Delivery time and purchase quantity on request).

Arm opening width 190 mm, (leaf height minimum 650 mm and only joint with 6440 90 leaf weight up to 90 kg).

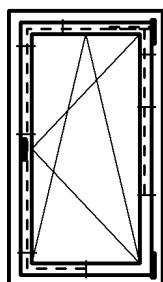
Leaf width 450 up to 600 mm
leaf height 510 up to 1400 (2400) mm (454-510 mm height with 5478).
Overleaf height 1300 mm with additional locking

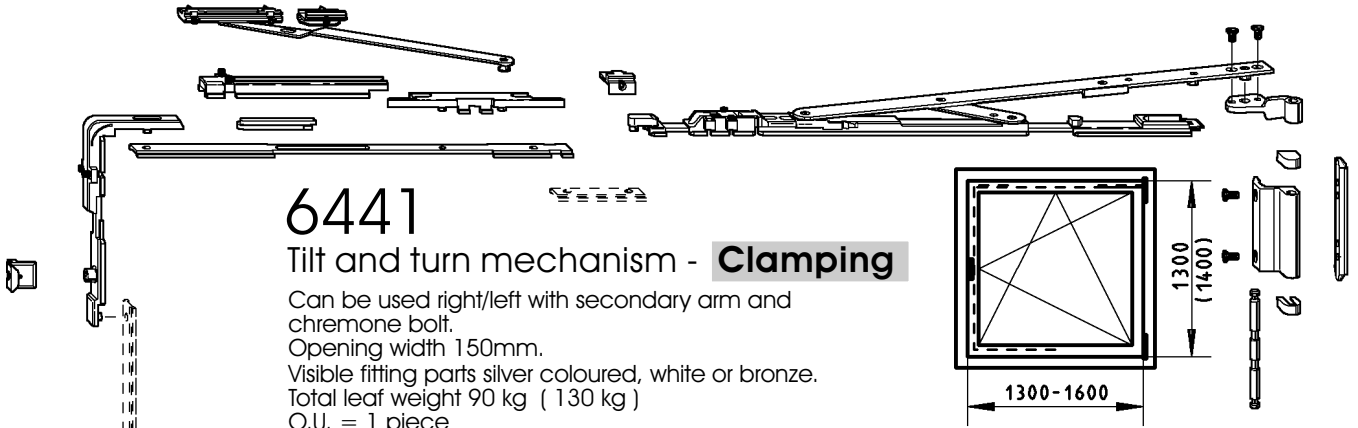
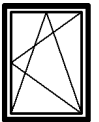


- | | | | | |
|----------------|--|-----|-------------|----------------------------|
| 5453 | Additional locking 700 | or: | 5452 | Corner transmission |
| 5453 10 | Additional locking | | 5456 | Locking pin |
| 5454 | Vertical-Additional locking 2400 | | 5457 | Locking safety |
| 5458 | Security arm (leaf width over 1000 mm) | | 5478 | Attached for chromone bolt |

Size specification in mm: **up to leaf width max.** **up to leaf height max.**

Profile	leaf size max.	without locking	additional locking	standard locking	additional locking	balcony door
7035	2,2 m ²	1200	1550	1300	1800	
7032	3,0 m ²	1300	1600	1400	2100	
7025	3,0 m ²	1400	1600	1400	2400	
7072	2,25 m ²	1200	1450	1300	2100	2,1 m ²
7065	2,2 m ²	1200	1550	1300	1800	

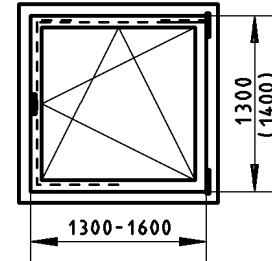




6441

Tilt and turn mechanism - **Clamping**

Can be used right/left with secondary arm and chremone bolt.
Opening width 150mm.
Visible fitting parts silver coloured, white or bronze.
Total leaf weight 90 kg (130 kg)
O.U. = 1 piece



Up to leaf size 1600 x 1400 (2400) mm
over leaf weight 1300 (1400) mm with additional locking.
See the leaf diagram

- | | | | |
|----------------|---|----------------|----------------|
| 6441 | Tilt and turn mechanism like previous, but silver | 6441 04 | 6441 07 |
| | | white | bronze |
| 6441 10 | Tilt and turn mechanism includes chremone bolt with lock | 6441 14 | 6441 17 |
| 6441 20 | Tilt and turn mechanism with gearing mechanism without chremone bolt | 6441 24 | 6441 27 |
| 6441 30 | Tilt and turn mechanism with round chremone bolt | 6441 34 | 6441 37 |
| 6441 40 | Tilt and turn mechanism includes round chremone bolt with lock | 6441 44 | 6441 47 |
| 6441 50 | Tilt and turn mechanism With covered gearing mechanism and faulty operation device, square pin 7 mm, without handle | 6441 54 | 6441 57 |
| 6440 90 | Additional price
Leaf weight 90 kg up to 130 kg | 6440 94 | 6440 97 |

Leaf weight up to 130 kg



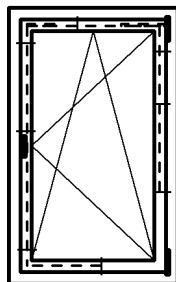
Accessories are also in RAL colour by choice (Delivery time and purchase quantity on request).
Arm opening width 190 mm,
(leaf height minimum 650 mm and only joint with 6440 90 leaf weight up to 90 kg).

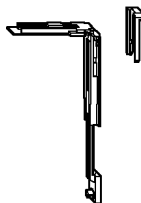
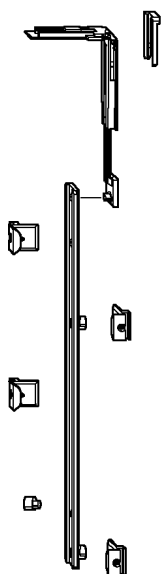
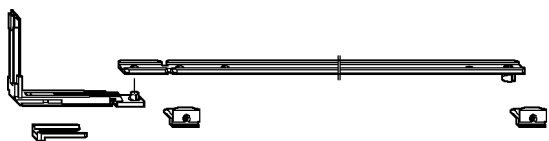
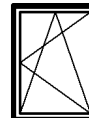
Leaf width 450 up to 600 mm
leaf height 510 up to 1400 (2400) mm (454-510 mm height with 5478).
Overleaf height 1300 mm with additional locking

- | | | | | |
|----------------|----------------------------------|-----|-------------|----------------------------|
| 5453 | Additional locking 700 | or: | 5452 | Corner transmission |
| 5453 10 | Additional locking | | 5456 | Locking pin |
| 5454 | Vertical-Additional locking 2400 | | 5457 | Locking plate |
| | | | 5478 | Attached for chremone bolt |

Sizes specifications in mm:

Profile	leaf size max.	up to leaf width max.		up to leaf height max.		balcony door
		without locking	additional locking	standard locking	additional locking	
7035	2,2 m ²	1200	1550	1300	1800	leaf size max. 2,2 m ²
7032	3,0 m ²	1300	1600	1400	2100	
7025	3,0 m ²	1400	1600	1400	2400	
7072	2,25 m ²	1200	1450	1300	2100	2,1 m ²
7065	2,2 m ²	1200	1550	1300	1800	





5453

Additional locking 700

For complete horizontal or vertical locking

For leaf width 1300 up to 1600 mm, for leaf height 1300 up to 1700 mm, consist of corner transmission 5452, extension rod 700 and two locking safety 5457
O.U. = 1 piece

5453 10

Additional locking

For complete horizontal or vertical locking

For leaf width 1300 up to 1600 mm, for leaf height 1300 up to 1700 mm, consist of corner transmission 5452, 1 latch and locking safety 5457
O.U. = 1 piece

5454

Vertical - additional locking 2400

complete for leaf height 1700 up to 2400mm consisted of corner transmission 5452, extension rod 1400, 1 locking pin 5456 and 4 locking safety 5457
O.U. = 1 piece

The additional locking of the leaf can be with the pre-fabricated and complete additional locks 5453, 5454 or with corner transmission 5452 extension rod 4327 locking pin 5456 and locking safety 5457

5452

Corner transmission

For additional lower horizontal or vertical locking
O.U. = 1 piece

5456

Locking pin

From stainless steel
O.U. = 10 pieces

5478

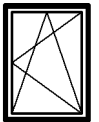
Attachment for chromone bolt

For leaf height smaller than 510mm or handle height smaller than 255mm
O.U. = 10 pieces

6449

Coupler

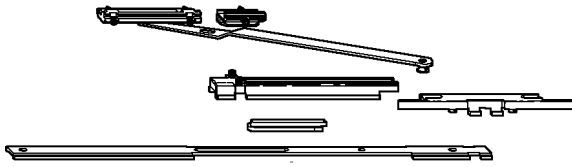
For corner transmission assemble in horizontal locking and perimeter extension rod
O.U. = 1 piece



5457

Locking safety

Clamping
can be used left
and right
O.U. = 10 pieces



5458

Secondary arm

complete, opening width 150 mm, (190 mm)
for leaf width over 1000 mm,
up to 1300 mm leaf width
O.U. = 1 piece



5459

Switch stop

For tilt and turn
mechanism
(Error operation stop)
O.U. = 1 piece

According VOB/DIN 18360 specifications.
For side locking or secondary arm the faulty
operation device is necessary.

Locking system:

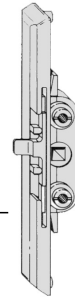
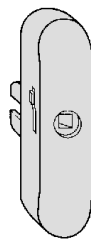
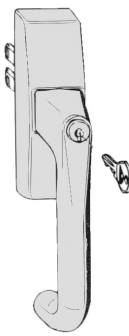
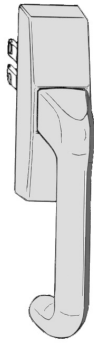
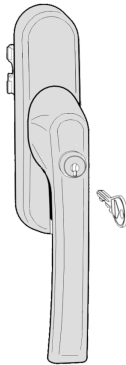
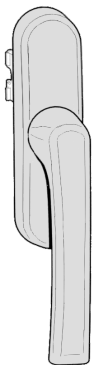
With
grip
rotoline

With lock

With rounded
chromone bolt lockable

with locking system
without chromone bolt

covered locking system,
including error operation stop



5469

**Removable chromone bolt
for turn and tilt mechanism**

for tilt and turn mechanism
for gearing transmissions without chromone bolt
O.U. = 1 piece

5463

Covered gearing transmission

similar with standard locking system,
although could be delivered with a
greater thorn dimension (limited in
matching on sash 7035)



5455

**Handgrip
for windows**

round form, Polyamide
Diameter 20mm
with square pin 7 mm, for
covered gearing transmission
Colour: Gray
O.U. = 1 piece

5455 04

**Handgrip
for windows**

Like previous
Colour: white
O.U. = 1 piece

5455 07

**Handgrip
for windows**

Like previous
Colour: brown
O.U. = 1 piece

5465

**Handgrip
for windows**

round form, from aluminium
with square pin 7 mm, for
covered gearing transmission
Colour: anodized
O.U. = 1 piece

5465 04

**Handgrip
for windows**

Like previous
Colour: white
O.U. = 1 piece

5465 07

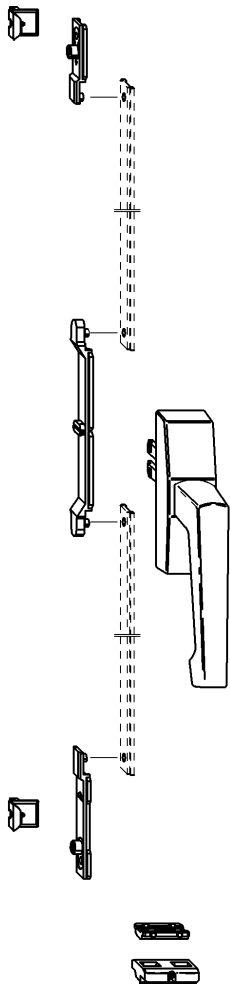
**Handgrip
for windows**

Like previous
Colour: dark bronze
O.U. = 1 piece

5465 01

**Handgrip
for windows**

round form, from stainless steel
with square pin 7 mm, for
covered gearing transmission
Colour: anodized
O.U. = 1 piece

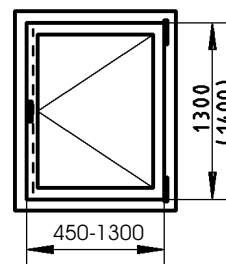
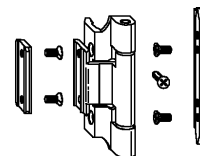


6442

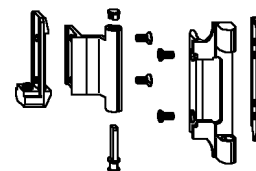
Opening mechanism - **Clamping**

Can be used right/left complete with chromone bolt
basic model straight line
fitting parts galvanized or coloured visible fittings
parts in silver colour, white or bronze.
Total leaf weight 130kg
O.U. = 1 piece

Up to leaf size 1300 x 1400 (2400) mm
over leaf height 1300 (1400) mm with additional
locking.
See the leaf diagram.



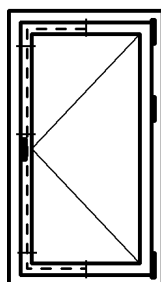
- | | | | |
|----------------|--|----------------|----------------|
| 6442 | Opening mechanism
as previous, silver coloured | 6442 04 | 6442 07 |
| | | White | bronze |
| 6442 10 | Opening mechanism
Includes chromone bolt with lock | 6442 14 | 6442 17 |
| 6442 20 | Opening mechanism
with gearing transmission without chromone bolt | 6442 24 | 6442 27 |
| 6442 30 | Opening mechanism
with round chromone bolt | 6442 34 | 6442 37 |
| 6442 40 | Opening mechanism
Includes chromone bolt with lock | 6442 44 | 6442 27 |
| 6442 50 | Opening mechanism
With covered gearing transmission and faulty operation device,
Square pin 7 mm, without handle
Accessories are also in RAL by choice available
(delivery time and purchase quantity on request). | 6442 54 | 6442 57 |



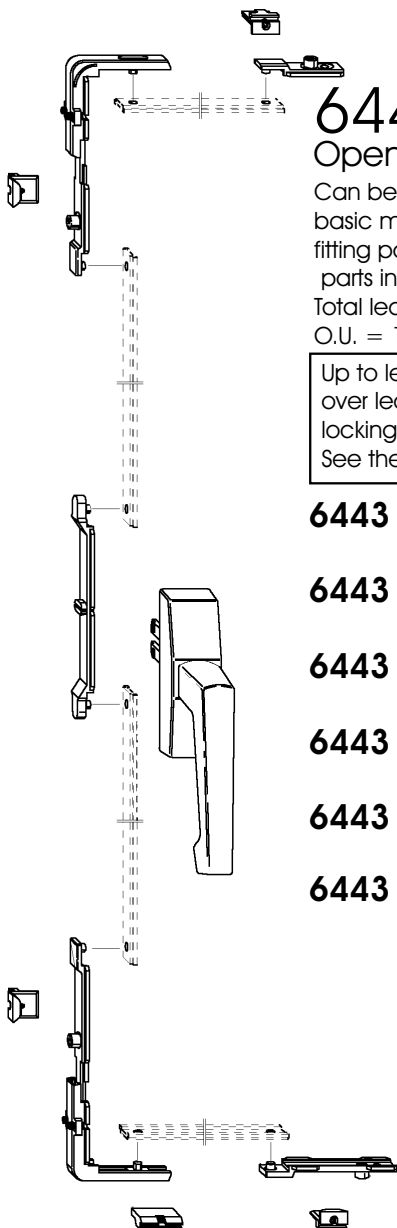
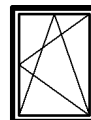
Leaf width 450 up to 1300 mm
Leaf height 510 up to 1400 (2400) mm (454-510 mm height with 5478)
Over 1300 mm leaf height with additional locking

- 5456** Locking pin
- 5457** Locking pate
- 6447** Tilt hinge

Size specifications (in mm)



Profile	Leaf size max.	up to leaf width max.		up to leaf height max.	
		without locking	additional locking	standard locking	additional locking
7035	2,2 m ²	1200	1550	1300	1800
7032	3,0 m ²	1300	1600	1400	2100
7025	3,0 m ²	1400	1600	1400	2400
7072	2,25 m ²	1200	1450	1300	2100
7065	2,2 m ²	1200	1550	1300	1800

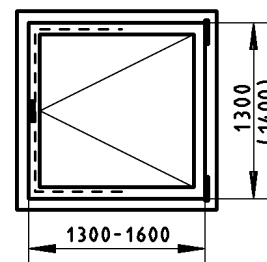
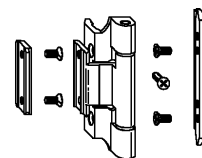


6443

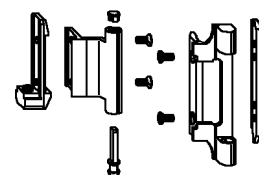
Opening mechanism - **Clamping**

Can be used right/left complete with chromone bolt
basic model straight line
fitting parts galvanized or coloured visible fittings
parts in silver colour, white or bronze.
Total leaf weight 130kg
O.U. = 1 piece

Up to leaf size 1600 x 1400 (2400) mm
over leaf height 1300 (1400) mm with additional
locking.
See the leaf diagram.



- | | | | |
|----------------|--|----------------|----------------|
| 6443 | Opening mechanism
as previous, silver coloured | 6443 04 | 6443 07 |
| | | white | bronze |
| 6443 10 | Opening mechanism
includes chromone bolt with lock | 6443 14 | 6443 17 |
| 6443 20 | Opening mechanism
with gearing transmission without chromone bolt | 6443 24 | 6443 27 |
| 6443 30 | Opening mechanism
with round chromone bolt | 6443 34 | 6443 37 |
| 6443 40 | Opening mechanism
Includes chromone bolt with lock | 6443 44 | 6443 27 |
| 6443 50 | Opening mechanism
With covered gearing transmission and faulty operation device,
Square pin 7 mm, without handle
Accessories are also in RAL by choice available
(delivery time and purchase quantity on request). | 6443 54 | 6443 57 |

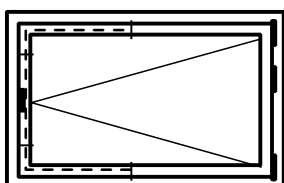


Leaf width 1300 up to 1600 mm
Leaf height 510 up to 1400 (2400) mm (454-510 mm height with 5478)
Over 1300 mm leaf height with additional locking

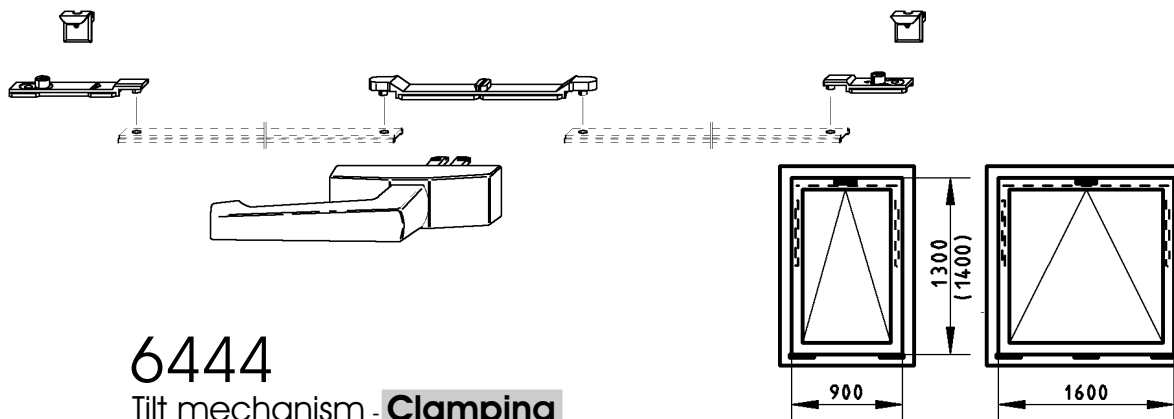
- 5456** Locking pin
- 5457** Locking pate
- 6447** Tilt hinge

Size specifications (in mm)

Profile	Leaf size max.	up to leaf width max.		up to leaf height max.	
		without locking	additional locking	standard locking	additional locking
7035	2,2 m ²	1200	1550	1300	1800
7032	3,0 m ²	1300	1600	1400	2100
7025	3,0 m ²	1400	1600	1400	2400
7072	2,25 m ²	1200	1450	1300	2100
7065	2,2 m ²	1200	1550	1300	1800



040917

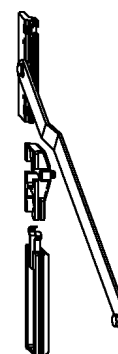
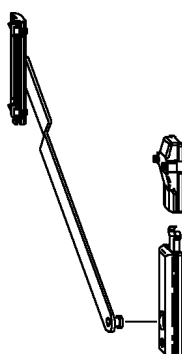


6444

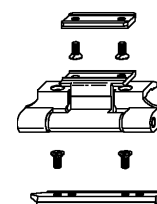
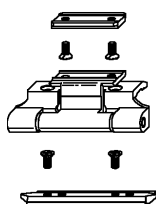
Tilt mechanism - **Clamping**

Can be used right/left with basic model straight line chromone bolt
Fitting parts galvanized or coloured
Visible fitting parts in silver colour, white or bronze
Total leaf weight 130kg
O.U. = 1 piece

Up to 1600 x 1400 mm leaf size
Over 900 mm with additional hinges and locking pins



- | | | | |
|----------------|--|----------------|----------------|
| 6444 | Tilt mechanism like previous, silver | 6444 04 | 6444 07 |
| | | white | bronze |
| 6444 10 | Tilt mechanism includes chromone bolt with lock | 6444 14 | 6444 17 |
| 6444 20 | Tilt mechanism with gearing mechanism without chromone bolt | 6444 24 | 6444 27 |
| 6444 30 | Tilt mechanism with round chromone bolt | 6444 34 | 6444 37 |
| 6444 40 | Tilt mechanism with round chromone bolt with lock | 6444 44 | 6444 27 |
| 6444 50 | Tilt mechanism With covered gearing transmission and faulty operation device Square pin 7mm without handle Accessories are also in RAL by choice available (delivery time and purchase quantity on request). | 6444 54 | 6444 57 |



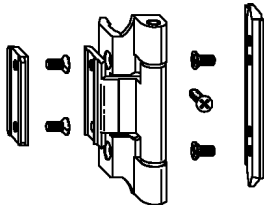
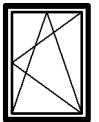
Leaf width 510 up to 1600 mm (370-510 mm width with 5478)
Leaf height 450 up to 1300 (1400) mm

- 5456** Locking pin
5457 Locking plate
6447 Tilt hinge

Size specification (in mm)

leaf width max.

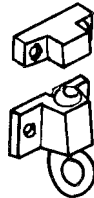
Profile	standard locking	additionally locking	Leaf height max.
7035	900	1600	1300
7032	900	1600	1400
7025	900	1600	1400
7072	900	1600	1300
7065	900	1600	1300



6447
Tilt hinge
also like normal hinge
in silver colour
leaf weight up to 130 kg
O.U. = 1 piece

6447 04
Tilt hinge
like previous
but white

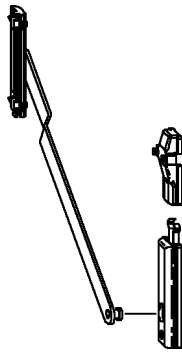
6447 07
Tilt hinge
like previous
but bronze



5468
Safety latch
Silver
O.U. = 1 piece

5468 04
Safety latch
like previous,
but white

5468 07
Safety latch
like previous,
bronze



5466
Tilt arm
O.U. = 1 piece

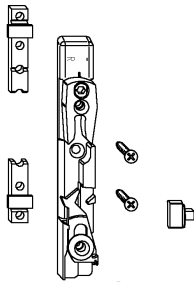
Accessories order for tilt window with safety latch

2 pieces 6447
1 piece 5468
2 pieces 5466



leaf width up to 900 mm
leaf height 400 up to 850 mm
leaf width 900 up to 1600 mm
leaf height 400 up to 850 mm

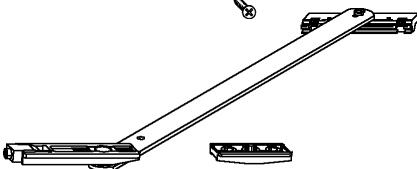
3 pieces 6447
2 pieces 5468
2 pieces 5466



5473 10
Safety latch left
For pin 7 mm
O.U. = 1 piece

5473 20
Safety latch right
like previous,
O.U. = 1 piece

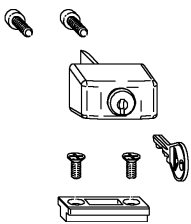
5474
Tilt safety arm
For tilt and turn windows
complete with adjustable gap
O.U. = 1 piece



5476
Tilt lock
silver
with key
O.U. = 1 piece

5476 04
Tilt lock
like previous,
but white

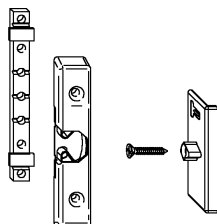
5476 07
Tilt lock
like previous,
but bronze



5476 10
Lock for tilt and turn
like previous, but removable
version
(tilt and turn windows)
silver

5476 14
Lock for tilt and turn
like previous
but white

5476 17
Lock for tilt and turn
like previous,
but bronze

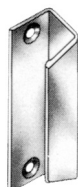


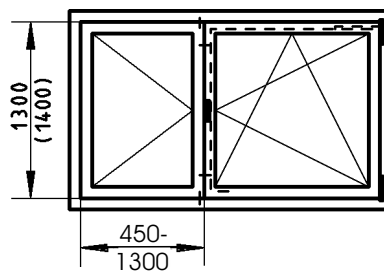
5477
Door safety catch
For tilt and turn window
O.U. = 1 piece

2437
Door handle
25 mm height
EV 1 anodized
O.U. = 1 piece

2437 04
Door handle
like previous,
but white

2437 07
Door handle
Like previous,
but bronze





6445

Opening mechanism - **Clamping**

Can be used right/left with gearing transmission control lever and hinges
Fitting parts are galvanized and coloured
Visible fitting parts silver coloured, white or bronze opening mechanism
Total leaf weight 130 kg
O.U. = 1 piece

Leaf width 450 up to 1300 mm
leaf height 620 up to 1400 (2400) mm
over leaf height (1300) 1400 mm with additional hinge tilt 6447

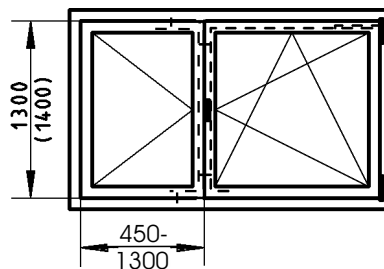
6445

Opening mechanism
Like previous, silver

6445 04
white

6445 07
bronze

6447 Tilt hinge



6445 10 Opening mechanism
like previous
but locking over
corner transmission

6445 14
white

6445 17
bronze

leaf width 450 up to 1300 mm
leaf height 620 up to 1400 (2400) mm
over leaf height (1300) 1400 mm with additional tilt hinge

5456 Locking pin
5457 Locking plate

4327 Aluminium rod
6447 Tilt hinge

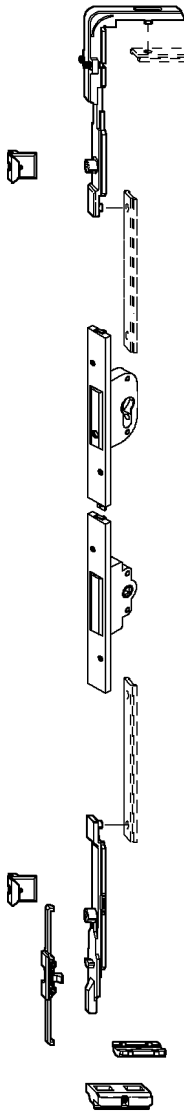
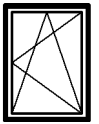
Size specifications (in mm)

Profile	leaf size max.	leaf width max.	up to leaf height max.	
			standard locking	additional locking
7035	1.8 m ²	1200	1300	1800
7032	2.1 m ²	1300	1400	2100
7025	2.4 m ²	1400	1400	2400
7065	1.8 m ²	1200	1300	1800

Balcony door

leaf size max.

2.2 m²



6464 10

Tilt and turn mechanism - **Clamping**

Only for profile 7025

Can be used right/left with covered gearing transmission double sided mechanism with safety catch.

Inside and outside lockable for chremone bolt with 7mm square pin.

Opening width 150 mm.

Visible fitting parts in silver colour, white or bronze

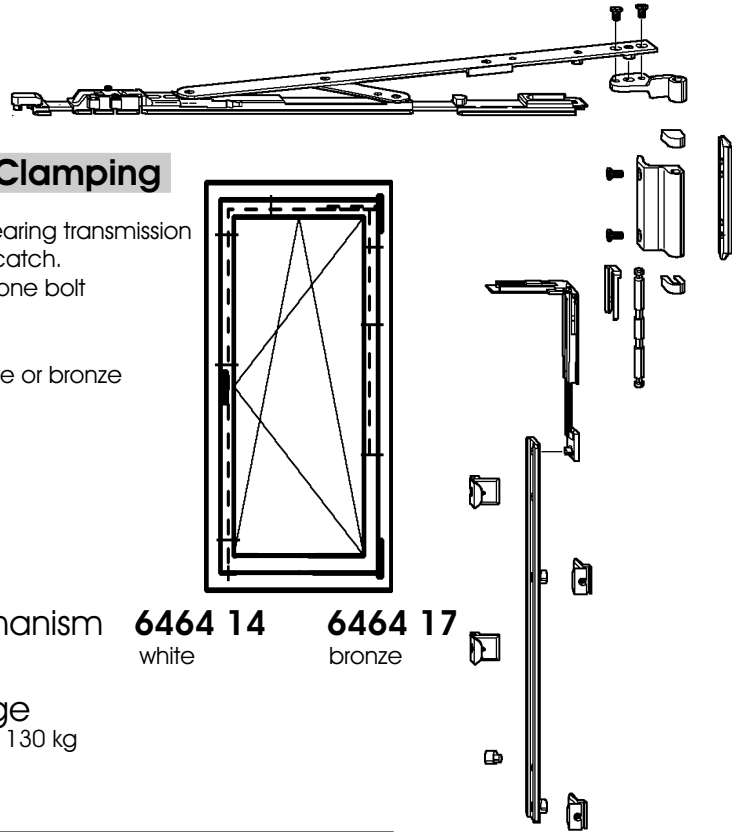
Total leaf weight 90 kg (130 kg)

O.U. = 1 piece

Leaf width up to 1200 mm
Leaf height up to 2400 mm
Leaf size max.2.2 m²

6464 10 Tilt and turn mechanism

Like previous, but silver



6464 14

white

6464 17

bronze

6440 90 Additional charge

Leaf weight 90 kg up to 130 kg

0338 20 Cylinder lock

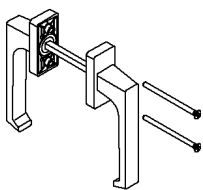
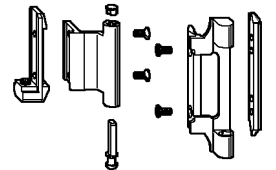
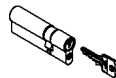
98 mm long, for assembly with rosette

6452 10, **variable closing**,

solid brass, matt,

with 3 pieces nickel keys

O.U. = 1 piece

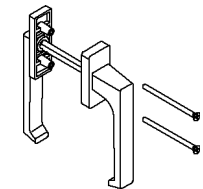


6450 10 Window handle

Internal and external handle for double side operation with square pin and screws.

silver-colored anodized

O.U. = 1 pair



6451 10

Window handle

Internal and external handle for double side operation with square pin and screws. **External handle has straight line 20 mm height.**

Special for balcony doors

silver-colored anodized

O.U. = 1 pair

6450 14

Window handle

like previous, but white

6450 17

Window handle

like previous, but bronze anodized

6451 14

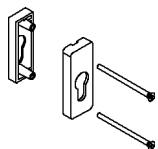
Window handle

like previous, but white

6451 17

Window handle

like previous, but bronze anodized



6452 10 Rosette

Internal and external

rosette with screws

silver-colored anodized

O.U. = 1 pair

6452 14

Rosette

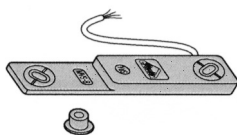
like previous, but white

6452 17

Rosette

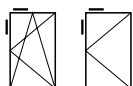
like previous,

but bronze anodized



Window design and opening description

Tilt and opening window



6438 10

Detector MVS - VdS class B

Magnetic opening and closing control (MVS) for conventional antiburglar alarm systems like opening closing detector in a window construction with accessories ,6439, 6440..., consist of:

MVS magnet for fastening on **aluminium rod 4327**
MVS contact element Vds B with profile support on frame
O.U. = 1 piece

6438 20

Detector MVS - VdS class C

like previous, but for antiburglar alarm systems VdS class C
O.U. = 1 piece

7438 10

Alarm unit MVS - VdS class B

Magnetic opening and closing control (MVS) for conventional burglar alarm systems like opening closing detector in a window construction with accessory **ALU 400 i** ,7439, 7440, 7470..., consist of:

MVS magnet pluggable in **aluminium rod** to leaf **6127**
MVS contact element Vds B with profile support on frame
O.U. = 1 piece

7438 20

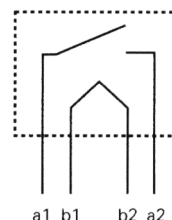
Detector MVS - VdS class C

like previous, but for burglar alarm systems VdS class C
O.U. = 1 piece

Technical specifications MVS Contact element VdS Class B:

Kind of contact:	opening contact
Voltage:	$U_{max} = 48 \text{ V DC}$
Intensity:	$I_{max} = 0,5 \text{ A}$
Absolute Ohm resistive load:	$P_{max} = 5 \text{ W (=UxI)}$
Security:	Ip67 in DIN 40050
Environmental class:	III in Vds 2110
Body colour:	RAL 7035 (light green)
Cable:	6 m, LIYY 4 x 0,14 mm ² ws. ZGL

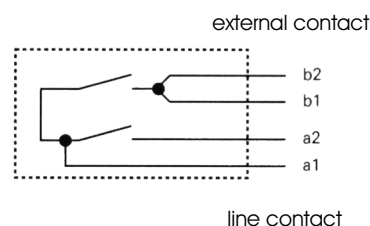
Circuit diagram:



Technical specifications MVS Contact element VdS Class C:

Kind of contact:	opening contact
External contact:	opening contact
Voltage:	$U_{max} = 30 \text{ V DC}$
Intensity:	$I_{max} = 0,2 \text{ A}$
Absolute Ohm resistive load:	$P_{max} = 3 \text{ W (=UxI)}$
Security:	IP67 in DIN 40050
Environmental class:	III in Vds 2110
Body colour:	RAL 7035 (light green)
Cable:	6 m, LIYY 4 x 0,14 mm ² ws. ZGL

Circuit diagram:



Classification of MVS of window contact:	VdS-class B	VdS-class C
Combined catch and opening monitoring:	VdS-Nr. G 102512	VdS-Nr. G 102039
Catch monitoring:	VdS-Nr. G 102038	VdS-Nr. G 102039
Opening monitoring:	VdS-Nr. G 102512	VdS-Nr. G 102039

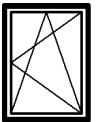
Areas of application:

VdS class B:

Household and trade > 100,000 € in the security class SG 1 and SG 2, Pharmacies, medical practices, fire brigade window and restaurants, hotels, Hospitals, travel agency, supermarkets.

VdS class C:

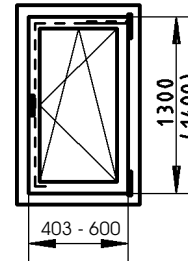
Industry in security class SG 3 up to SG 6, z.: For example leather industries, art galleries, computer industries, fotoshops, carpet industries, jewel-shops, stores, museums, cigarette industries, gun-shops.



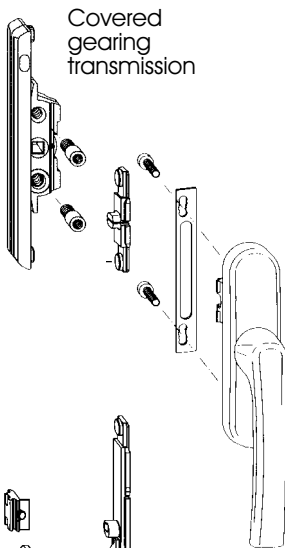
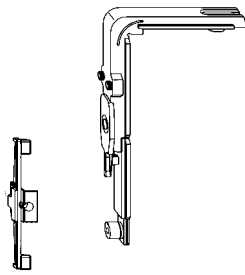
7439 Tilt and turn mechanism

ALU 400 i Clamping

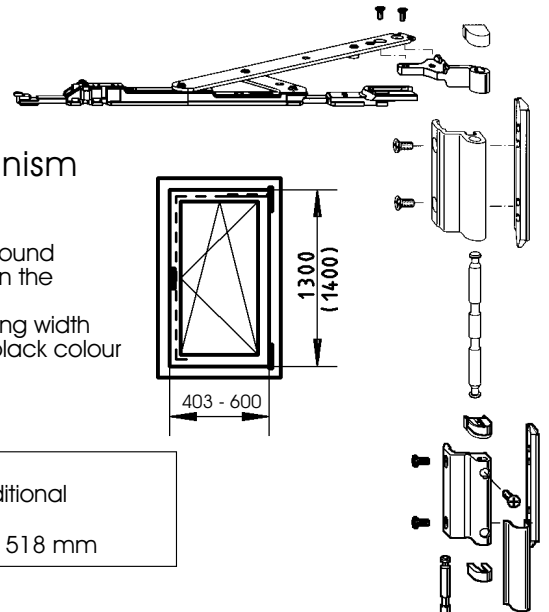
Can be used right/left with shorter arms with round chromone bolt and faulty operation device in the corner transmission.
Fitting parts galvanized and coloured. Opening width 160 mm visible fitting parts in silver, white or black colour
Total leaf weight 90 kg.
O.U. = piece



Up to leaf size 600 x 1400 (2400) mm over leaf height 1300 (1400) mm with additional locking. See the leaf diagram.
Leaf width min. 403 mm, leaf height min. 518 mm



Covered gearing transmission



- 7439** Tilt and turn mechanism like previous, but silver
- 7439 10** Tilt and turn mechanism includes chromone bolt with lock
- 7439 20** Tilt and turn mechanism with gearing transmission
- 7439 50** Tilt and turn mechanism With covered gearing transmission square pin 7 mm (without handle)

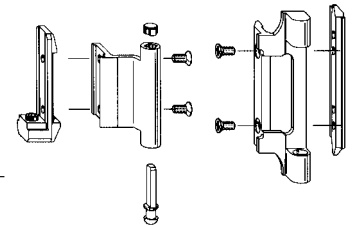
- 7439 04** white
- 7439 05** black
- 7439 14**
- 7439 15**
- 7439 24**
- 7439 25**
- 7439 54**
- 7439 55**

Leaf weight up to 130 kg

- 7440 90** Extra price leaf weight 90 kg up to 130 kg

- 7440 94**
- 7440 95**

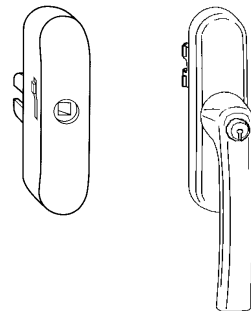
Accessories are also in RAL by choice available (Delivery time and purchase quantity by request).



- 5456 40** Locking pin
Plugable and adjustable
O.U. = 10 pieces
- 5457** Locking safety
Can be used right/left
O.U. = 10 pieces
- 5469 10** Handle
Removable in gearing transmission without handle
O.U. = 1 piece

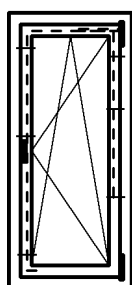
Gearing transmission without handle

Chromone bolt with lock



Size specifications in mm:

Profile	up to leaf width max.	up to leaf height max.	
		standard locking	additional locking
7035	600	1300	1800
7032	600	1400	2100
7025	600	1400	2400
7072	600	1300	2100
7065	600	1300	1800



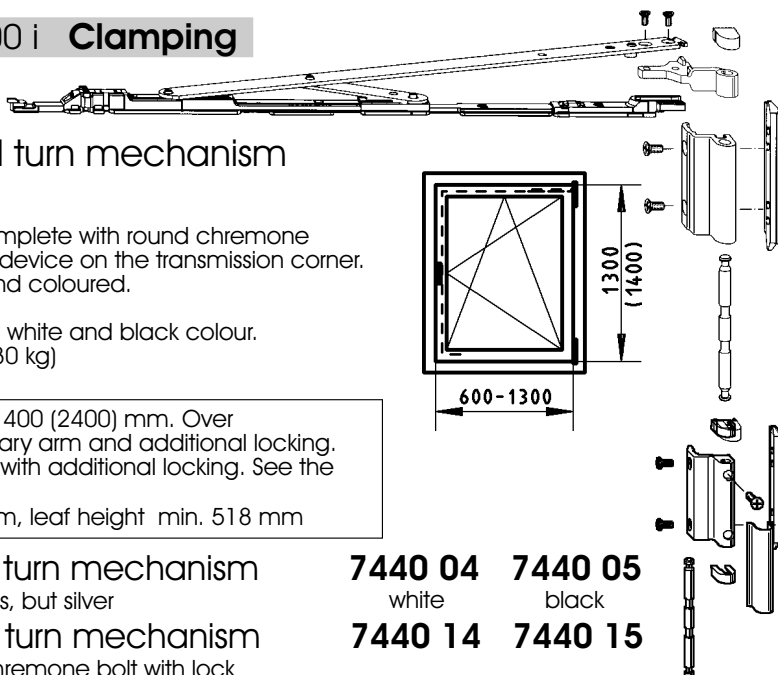
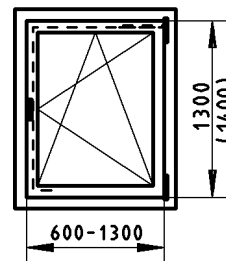


ALU 400 i Clamping

7440 Tilt and turn mechanism

Can be used right/left complete with round chromone bolt and faulty operation device on the transmission corner. Fitting parts galvanized and coloured. Opening width 160 mm, Visible fitting parts in silver, white and black colour. Total leaf weight 90 kg (130 kg) O.U. = 1 piece

Up to leaf size 1300 x 1400 (2400) mm. Over 1300 mm with secondary arm and additional locking. Over 1300 (1400) mm with additional locking. See the leaf diagram. Leaf width min. 600 mm, leaf height min. 518 mm



Leaf weight up to 130 kg

- 7440** Tilt and turn mechanism like previous, but silver
- 7440 04** white
- 7440 05** black
- 7440 10** Tilt and turn mechanism includes chromone bolt with lock
- 7440 14**
- 7440 15**
- 7440 20** Tilt and turn mechanism With gearing transmission without chromone bolt
- 7440 24**
- 7440 25**
- 7440 50** Tilt and turn mechanism With covered gearing transmission, square pin 7 mm (without handle)
- 7440 54**
- 7440 55**
- 7440 60** Tilt and turn mechanism Tilt operation before opening operation
- 7440 64**
- 7440 65**
- 7440 70** Tilt and turn mechanism Tilt operation before opening operation includes chromone bolt with lock
- 7440 74**
- 7440 75**
- 7440 80** Tilt and turn mechanism Operation TF tilt operation before opening operation with covered gearing transmission, Square pin 7 mm (extra price)
- 7440 84**
- 7440 85**

- 7440 90** Additional charge leaf weight 90 kg up to 130 kg
- 7440 94**
- 7440 95**

- 5456 40** Locking pin Plugable and adjustable O.U. = 10 pieces

- 5457** Locking safety Can be used right/left O.U. = 10 pieces

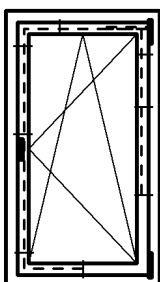
Switching sequence:

- Handle down = Closed
- Handle horizontal = Tilting
- Handle upward = Opening

When it is closed is locked, when it is open the tilt operation is blocked (Only when window is closed can be turned to tilting operation)

Size specification in mm: up to leaf width max. up to leaf height max.

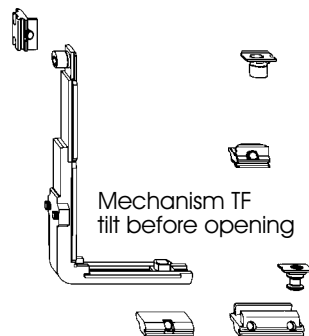
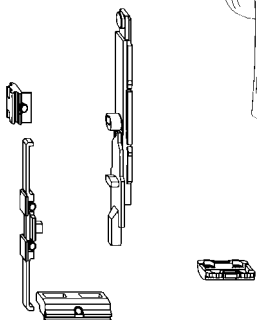
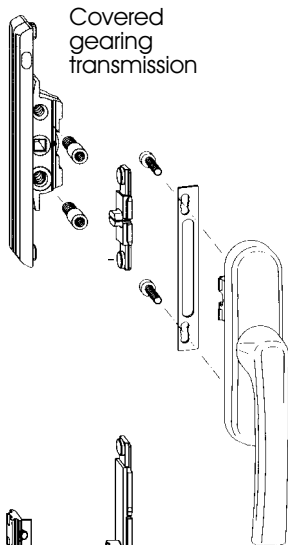
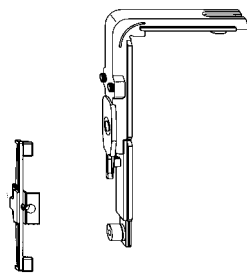
Profile	leaf size max.	without locking	additional locking	standard locking	additional locking	balcony door
7035	2,2 m ²	1200	1550	1300	1800	leaf size max. 2,2 m ²
7032	3,0 m ²	1300	1600	1400	2100	
7025	3,0 m ²	1400	1600	1400	2400	
7072	2,25 m ²	1200	1450	1300	2100	2,1 m ²
7065	2,2 m ²	1200	1550	1300	1800	

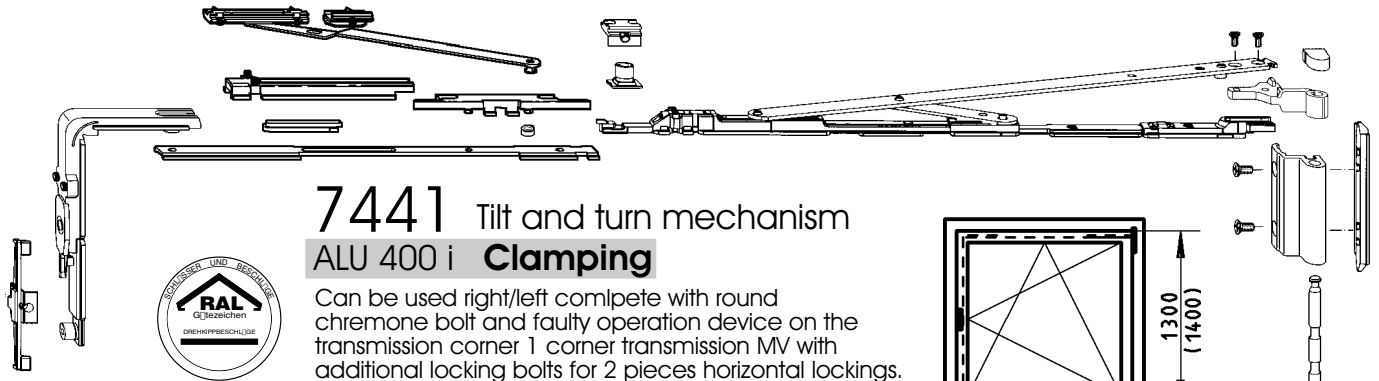
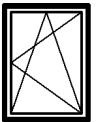


Covered gearing transmission

Mechanism TF tilt before opening

Arm TF tilt before open

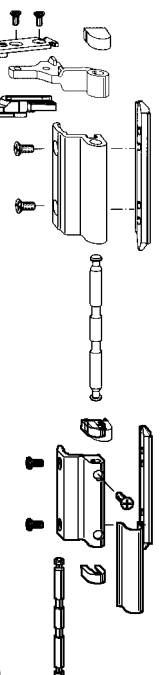
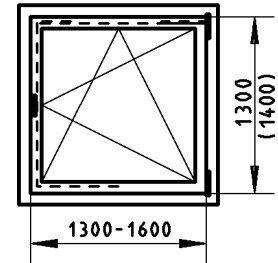




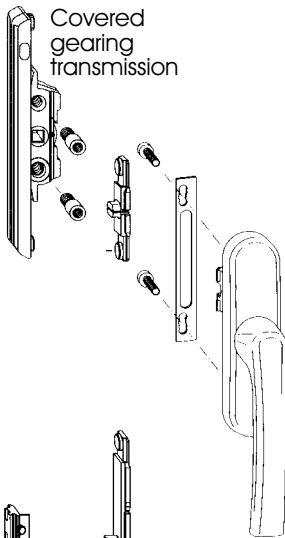
7441 Tilt and turn mechanism
ALU 400 i **Clamping**



Can be used right/left complete with round chromone bolt and faulty operation device on the transmission corner 1 corner transmission MV with additional locking bolts for 2 pieces horizontal lockings. Opening width 160 mm, Visible fitting parts in silver, white and black colour. Total leaf weight 90 kg (130 kg) O.U. = 1 piece



Covered gearing transmission

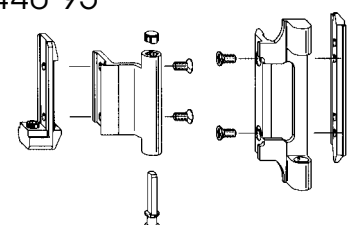


Up to leaf size 1600 x 1400 (2400) mm over leaf height 1300 (1400) mm with additional locking. See the leaf diagram.

- | | | | |
|----------------|---|----------------|----------------|
| 7441 | Tilt and turn mechanism like previous, but silver | 7441 04 | 7441 05 |
| 7441 10 | Tilt and turn mechanism includes chromone bolt with lock | white | black |
| 7441 20 | Tilt and turn mechanism With gearing transmission without chromone bolt | 7441 14 | 7441 15 |
| 7441 50 | Tilt and turn mechanism With covered gearing transmission, square pin 7 mm (without handle) | 7441 24 | 7441 25 |
| | | 7441 54 | 7441 55 |

Leaf weight up to 130 kg

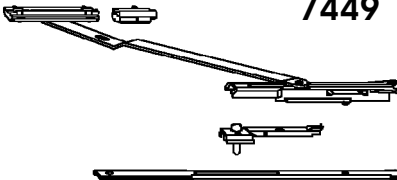
- | | | | |
|----------------|--|----------------|----------------|
| 7440 90 | Additional charge leaf weight 90 kg up to 130 kg | 7440 94 | 7440 95 |
|----------------|--|----------------|----------------|

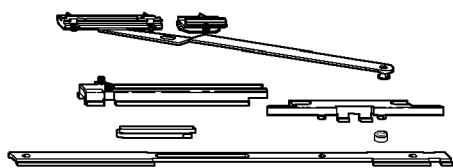
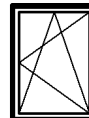


- | | |
|---|---|
|  | 5456 40 Locking pin Plugable and adjustable O.U. = 10 pieces |
|---|---|

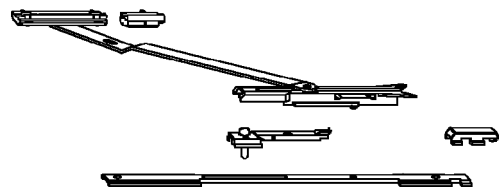
- | | |
|---|---|
|  | 5457 Locking safety clamping can be used right/left O.U. = 10 pieces |
|---|---|

- | | |
|---|---|
|  | 7446 Corner transmission MV Over leaf height 1300 (1400) mm for additional vertical locking and tilt and turn mechanism O.U. = 1 piece |
|---|---|

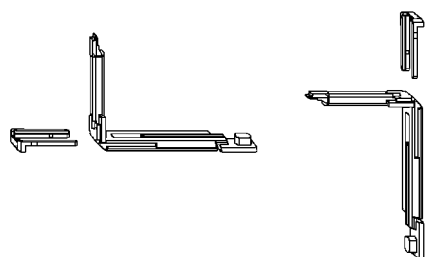
- | | |
|---|---|
|  | 7449 10 Secondary arm TF ALU 400 i clamping, can be used right/left for tilt operation TF before opening operation over leaf width 1300 mm (Min. leaf width 1000 mm). O.U. = 1 piece |
|---|---|



7449 Secondary arm ALU 400 i
 Over leaf width 1300 mm
 (leaf width min. 1000 mm)
 O.U. = 1 piece



7449 10 Secondary arm TF ALU 400 i
 For tilt operation before opening
 over leaf width 1300 mm
 (leaf width min. 1000 mm)
 O.U. = 1 piece



7446 Corner transmission MV
 Over leaf height 1300 (1400) mm
 for additional vertical locking and
 tilt and turn mechanism
 O.U. = 1 piece



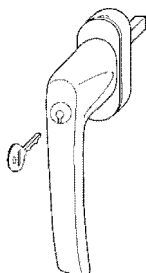
5456 40 Locking pin
 Pluggable and adjustable
 O.U. = 10 pieces



5457 Locking safety
 clamping, can be used right/left
 O.U. = 10 pieces



5469 10 Handle
 removable,
 for accessory in gearing
 transmission without handle
 O.U. = 1 piece



0453 Chremone bolt
 Round form, from Aluminium,
 with attachment 43 mm,
 lifter with 10 mm diameter
 Pin 7 mm, 30 mm projecting
 silver (other colours on request)
 O.U. = 1 piece



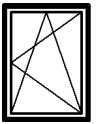
5456 30 Security locking pin
 of stainless steel and ,
 pluggable hard brass adjustable
 security
 O.U. = 10 pieces



5457 10 Security locking safety
 of hard brass
 O.U. = 10 pieces



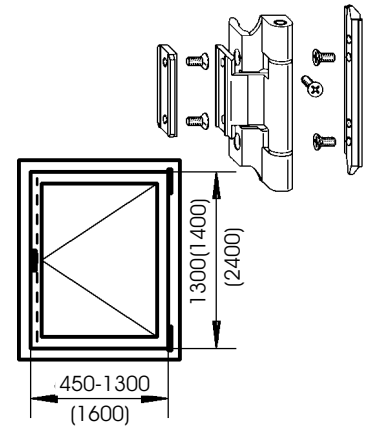
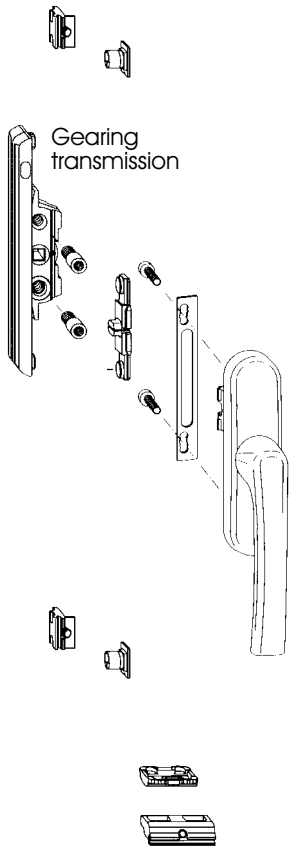
5457 20 Security locking safety
 of Aluminium
 O.U. = 10 pieces



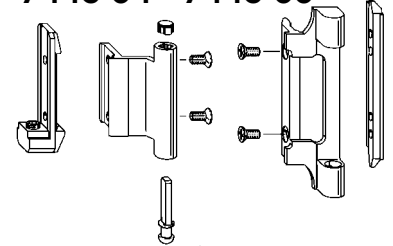
7442 Opening mechanism
ALU 400 i Clamping



Can be used right/left with round chromone bolt
Fitting parts galvanized and coloured
Visible fitting parts in silver, white or black colour.
Total leaf weight 90 (130) kg
O.U. = 1 piece

Up to leaf size 1300 x 1400 (2400) mm.
Over leaf weight 1200 (1300),
leaf height 1300 (1400) mm with
additional locking hinges
see the leaf diagram
Leaf width min.403 mm,
Leaf height min.518 mm

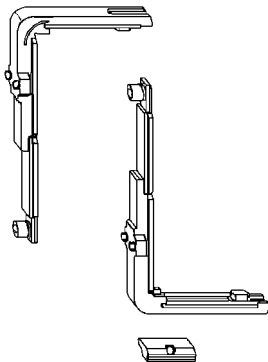


- 7442** Side hung leaf mechanism **7442 04** **7442 05**
Like previous, but silver white black
- 7442 10** Side hung leaf mechanism **7442 14** **7442 15**
Includes chromone bolt with lock
- 7442 20** Side hung leaf mechanism **7442 24** **7442 25**
with gearing transmission without chromone bolt
- 7442 50** Side hung leaf mechanism **7440 54** **7440 55**
with covered gearing transmission,
Square 7 mm (without handles)

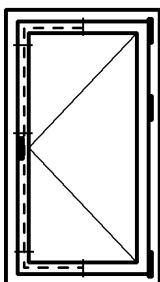
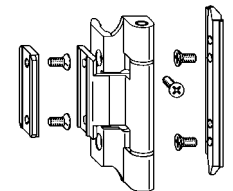


- 5456 40** Locking pin 
Plugable and adjustable
O.U. = 10 pieces
- 5457** Locking safety 
clamping,
can be used right/left
O.U. = 10 pieces

- 6447** Tilt hinge **6447 04** **6447 05**
Also as hinge for leaf weight up to 130 kg, silver white Black
O.U. = 1 piece



- 7446 20** Corner transmission
for additional locking at horizontal top
O.U. = 1 piece
- 7446 30** Corner transmission
for additional locking at horizontal bottom
O.U. = 1 piece

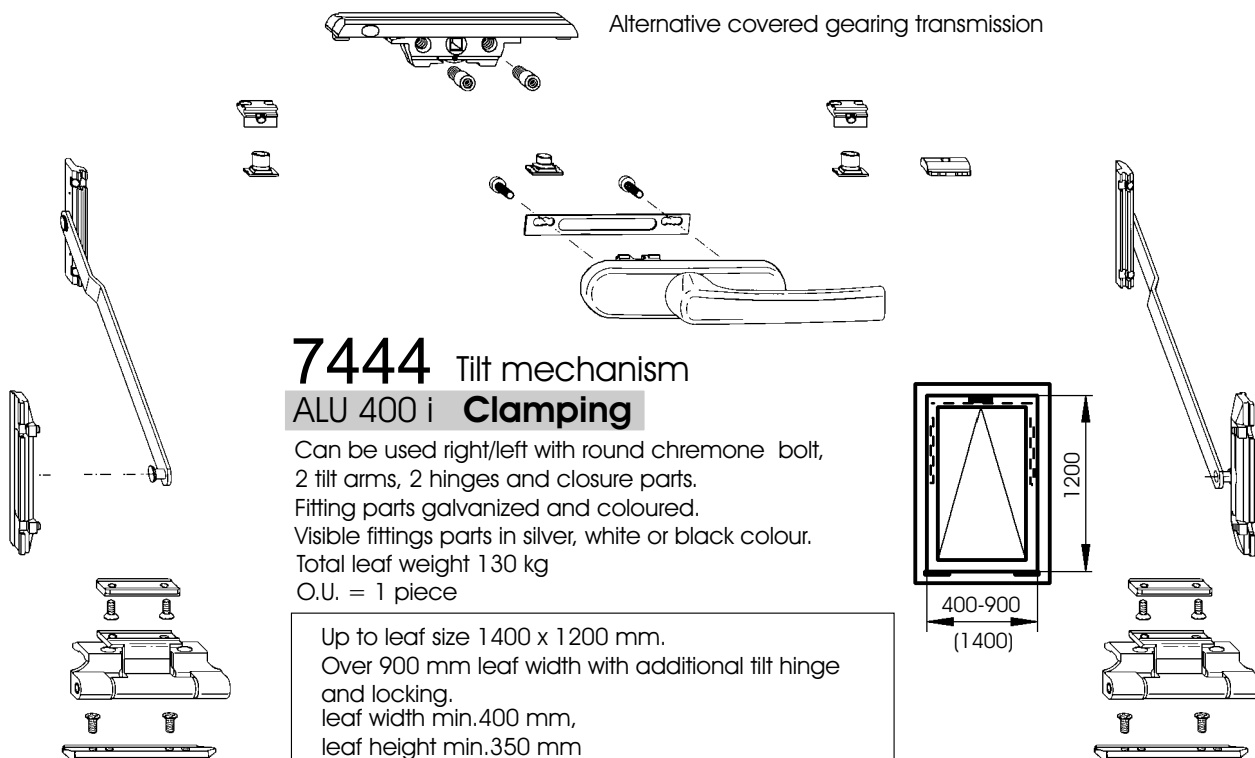


Sizes specifications in mm:

Profile	leaf size max.	up to leaf width max.		up to leaf height max.	
		locking	additional locking	standard locking	additional locking
7035	2,2 m ²	1200	1550	1300	1800
7032	3,0 m ²	1300	1600	1400	2100
7025	3,0 m ²	1400	1600	1400	2400
7072	2,25 m ²	1200	1450	1300	2100
7065	2,2 m ²	1200	1550	1300	1800



Alternative covered gearing transmission



7444 Tilt mechanism
ALU 400 i Clamping

Can be used right/left with round chromone bolt,
2 tilt arms, 2 hinges and closure parts.
Fitting parts galvanized and coloured.
Visible fittings parts in silver, white or black colour.
Total leaf weight 130 kg
O.U. = 1 piece

Up to leaf size 1400 x 1200 mm.
Over 900 mm leaf width with additional tilt hinge
and locking,
leaf width min.400 mm,
leaf height min.350 mm

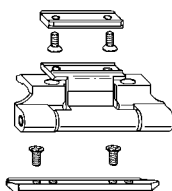
- | | | | |
|----------------|---|----------------|----------------------------------|
| 7444 | Tilt mechanism
Like previous,
but silver | 7444 04 | 7444 05
white
black |
| 7444 10 | Tilt mechanism
Includes chromone bolt with lock | 7444 14 | 7444 15 |
| 7444 20 | Tilt mechanism
with gearing transmission without chromone bolt | 7444 24 | 7444 25 |
| 7444 50 | Tilt mechanism
with covered gearing transmission,
Square pin 7 mm (without chromone bolt) | 7444 54 | 7444 55 |



5456 40 Locking pin
Plug able in and adjustable
O.U. = 10 pieces

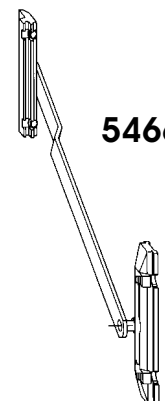


5457 Locking safety
clamping,
can be used right or left
O.U. = 10 pieces



6447 Rotary sash
also like hinge
for leaf weight up to 130 kg,
silver
O.U. = 1 piece

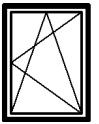
6447 04 **6447 05**
white black



5466 10 Tilt arm
O.U. = 1 piece

Profile	Leaf width max.		Leaf height max.
	standard locking	additional locking	
7035	900	1400	1200
7032	900	1400	1200
7025	900	1400	1200
7072	900	1400	1200
7065	900	1400	1200

Size specifications (in mm)

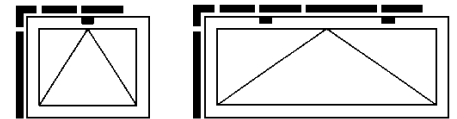


0394 10 Anti-burglar
Primat- FL 190 roof light mechanism

Can be used right or left with tilt arm and holder
corner transmission leaf trestle, with caps chromone bolt
with lock and connection rod.
1 clutch with drilling protection
3 security locking pins from hard brass and stainless steel
and 2 security locking safeties from aluminium.
Opening width 190 mm,
visible fittings parts in silver, white or black colour
Total leaf weight max. 80 kg
O.U. = 1 piece

Up to leaf size (b x h) 1600 x 660 (640 x 410) mm
over leaf width 1164 mm with additional tilt arm 0395,
over leaf width 900 mm with tilt hinge.

Hint:
The extension of one
pair screws is acceptable able
for resistance class WK1
and available by request.



0394 10 Roof light fittings WK 1
Like previous but silver

0394 Roof light fittings
Like previous but standard operation
with normal handle
without security parts WK 1
silver-colored

0395 Additional tilt arm
For roof light mechanism
with arm holder and
apostate
every 1 clutch and clamp piece
O.U. = 1 piece

0396 Connection rod
For roof light mechanism 0394
Diameter 8 mm, galvanized steel,
with frame attachment to hung up
in corner transmission
Length 2500 mm
(1000, 2000, 3000 and 3750 mm by request)
O.U. = 1 piece

0397 Aluminium rod
of aluminum, 16 mm width
Length 2000 mm (2500 and
6000 mm by request), silver
O.U. = 1 piece

6447 Hinge
clamping
for leaf weight up to 130 kg,
silver
O.U. = 1 piece

0394 14 **0394 15**
white black

0394 04 **0394 05**
white black

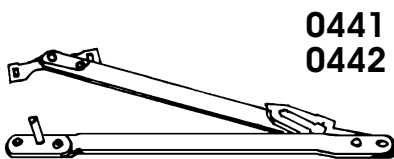
0395 04 **0395 05**
white black

Operation roof light mechanism:
leaf width 400 up to 1200 with 1 tilt arm
1000 up to 2400 with 2 tilt arms
1500 up to 3600 with 3 tilt arms
over 900 mm leaf width additional tilt hinge
leaf height over 300 mm up to max. 1200 mm.

4831 Drilling fixture for roof light mechanism
O.U. = 1 piece

0397 04 **0397 05**
white black

6447 04 **6447 05**
white black

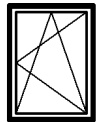


0441 Security tilt arm left
0442 Security tilt arm right

covered, size 2 for 500-1200 mm frame
Steel galvanized,
leaf weight max.80 kg with installation of 2 KSP tilt arm
O.U. = 1 piece

0441 10 Security tilt arm left
0442 10 Security tilt arm right
like previous, but **size of 1** for 300 - 500 mm frame
O.U. = 1 piece

Hint:
For roof light
there is for security tilt arm
specification

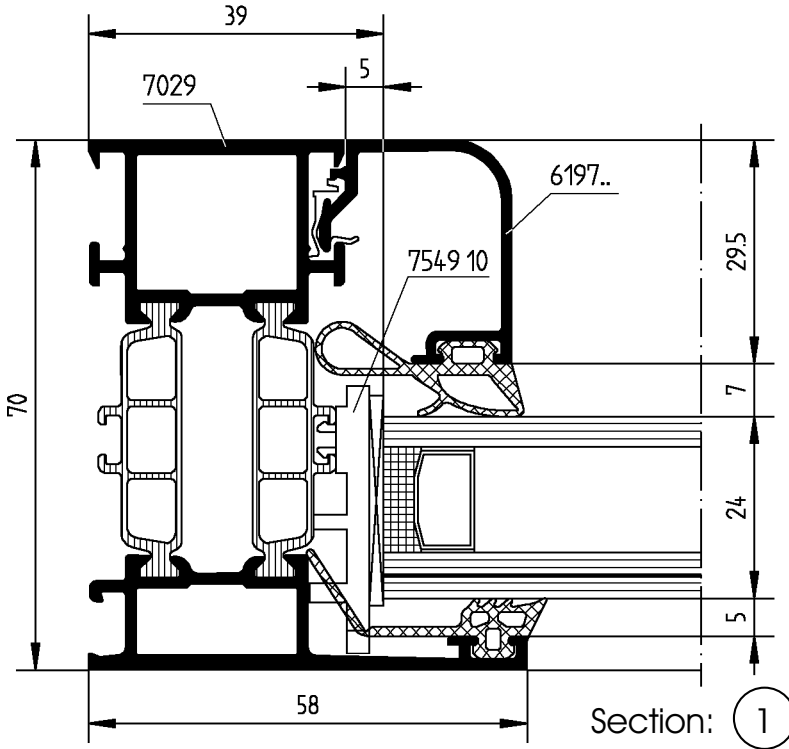


Burglar protected turn and tilt windows, tilting roof light
Resistance class WK 1 according to DIN ENV 1627

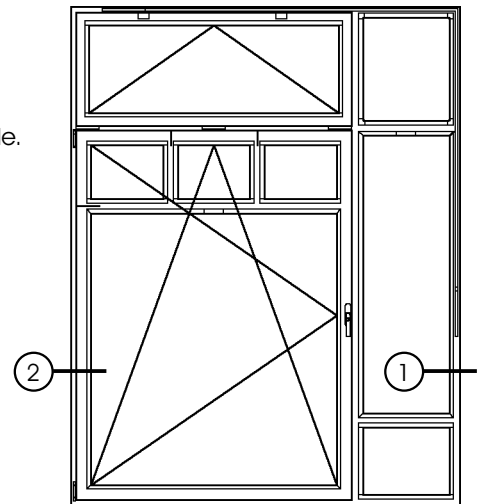
Certification of burglar protected properties:

Test report 211 27990 at 23.March 2004 - **ift Rosenheim**

The certification is valid for fixed glazing, turn and tilt windows with or without rungs for vent and tilting roof light with standard vent profile. Standard glazing beads are with angular or not angular shape, in miter cut or with additional glazing bead glazing beads corner.



Section: ①



Accessories:

7470 Burglar protected Turn and tilt mechanism WK 1

0394 10 Burglar protected Roof light mechanism WK 1

Glazing:

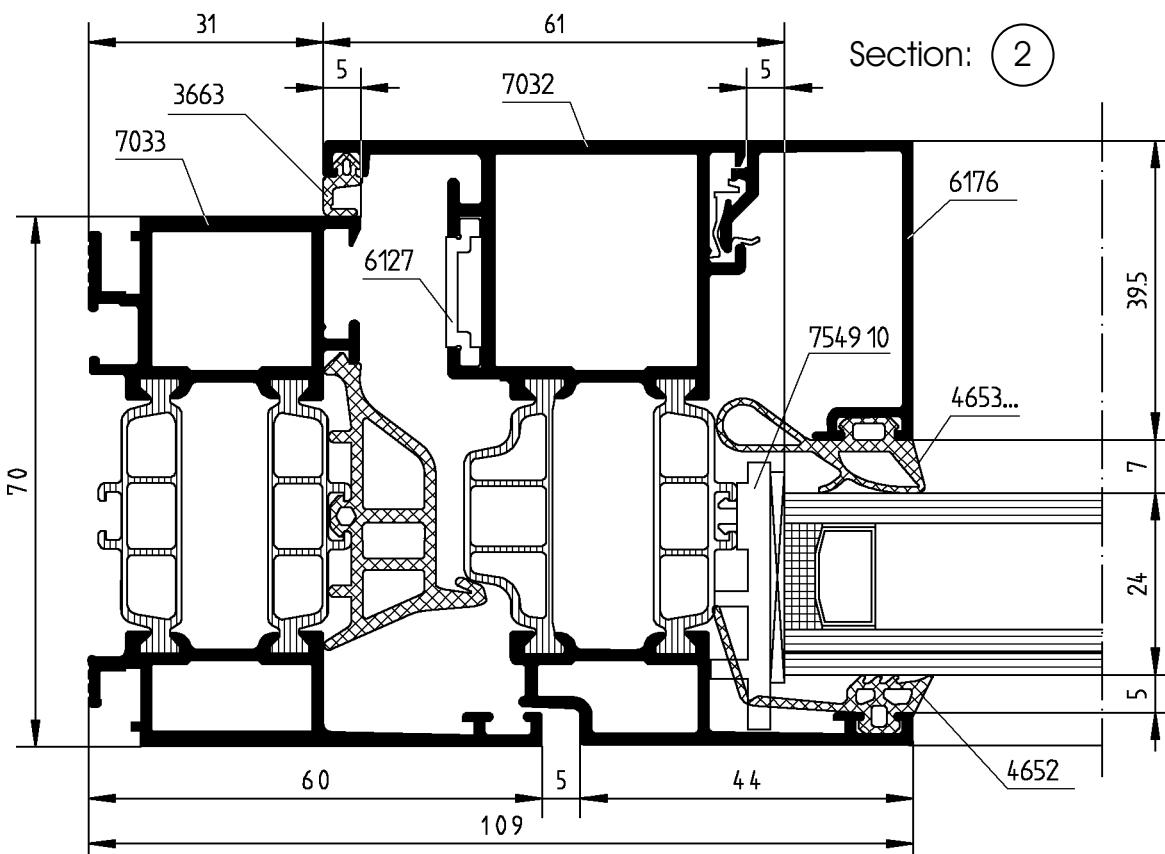
More plane insulated glass (termopane)

with 1 pane VSG 6 mm (minimum requirement),

or burst proof: DIN 52,290 - A1

or

DIN EN 356 - P2A



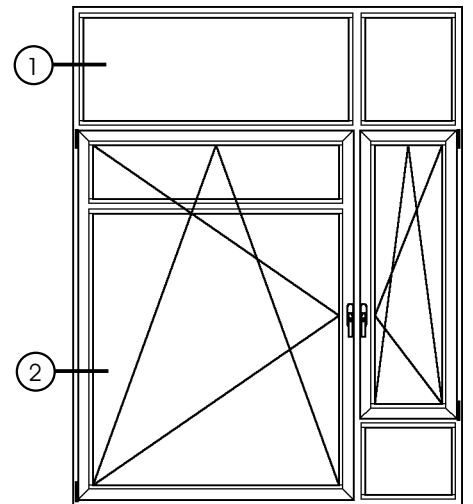
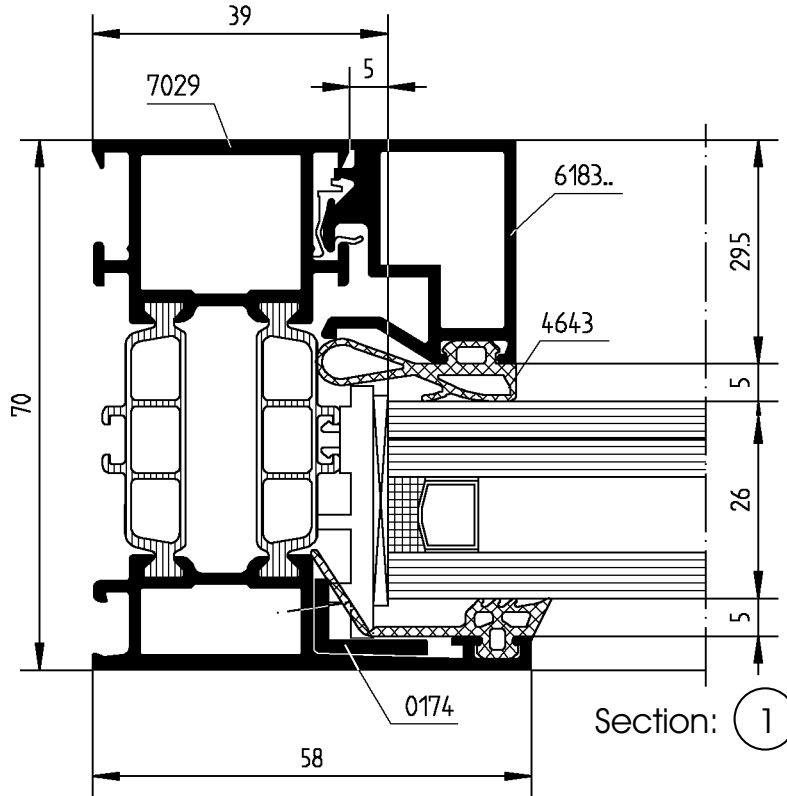
Section: ②



Burglar protected tilt and turn window
Resistance class WK 2 according to DIN ENV 1627

Certification of burglar protected properties:
Test report 211 28110 at 07 July 2004 - iff Rosenheim

The certification stand for glazing with reinforcement and tilt and turn window with or without mullion profile with reinforcement with security sash profile 7024. Security glazing beads in straight line.

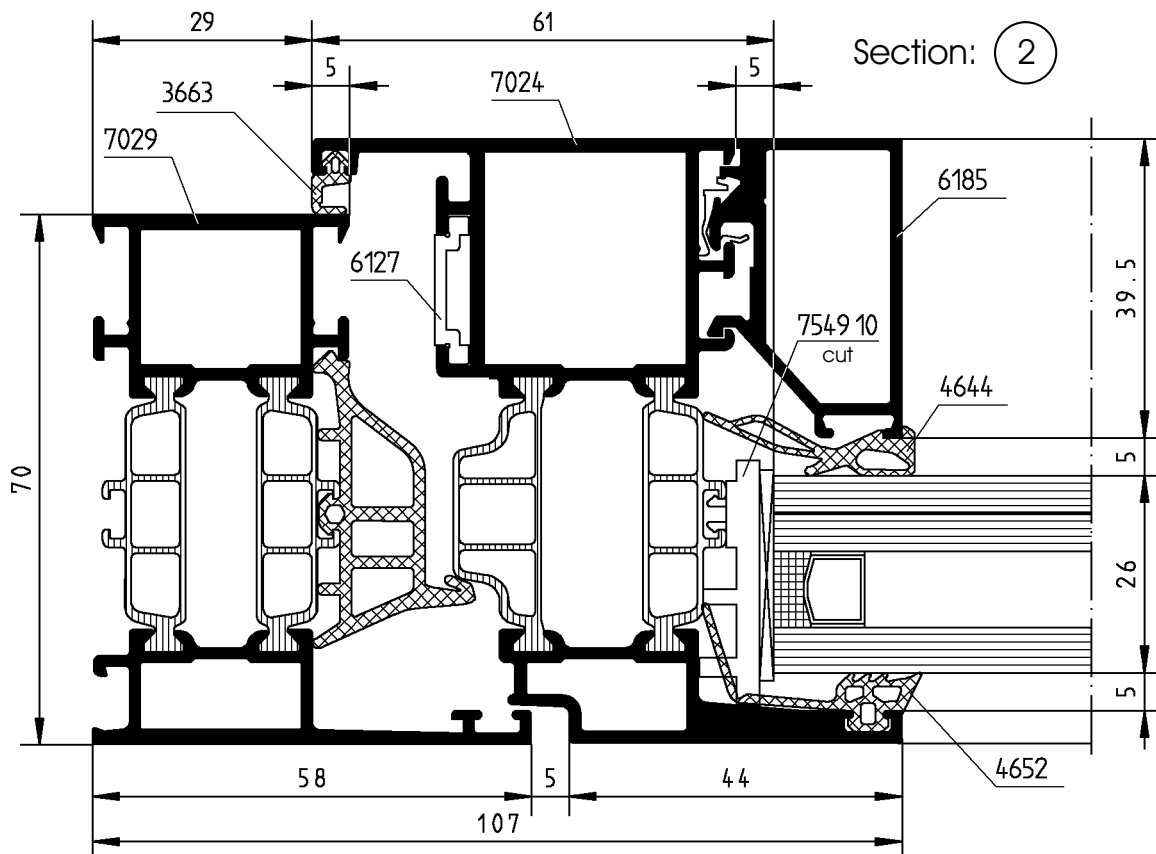


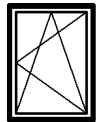
Accessories:

7471 Burglar protected
Tilt and turn mechanism WK 2

Glazing:

Security
infrangible glass:
DIN 52,290 - A3
or
DIN EN 356 - P4A

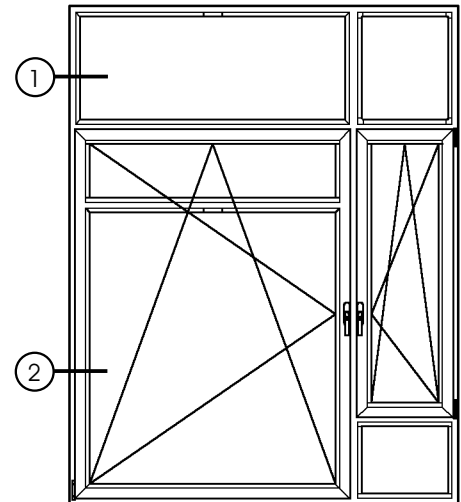
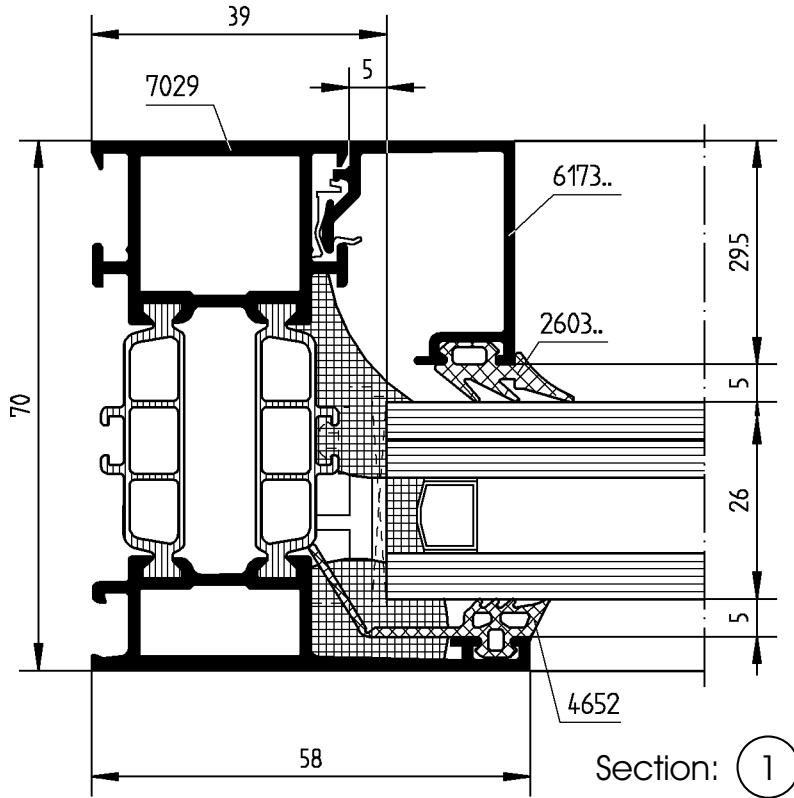




Burglar protected tilt and turn window
Resistance class WK 2 according to DIN ENV 1627
Certification of anti burglar properties:

Test report 211 28110 at 07 July 2004 - ift Rosenheim

The certification standard for glazing and tilt and turn window with or without mullion profile-with standard glazing beads in curved or straight line, in miter cut or with the additional glazing bead corners



Accessories:

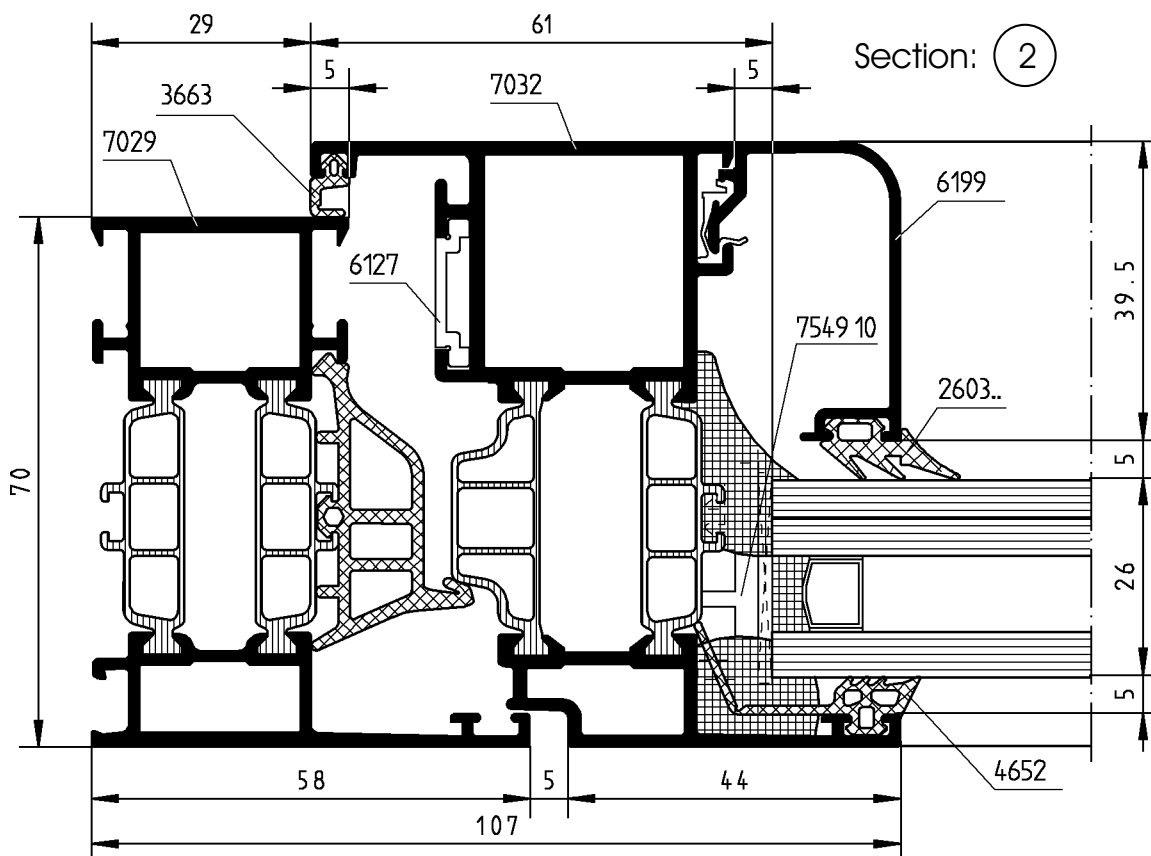
7471 Burglar protected tilt and turn mechanism WK 2

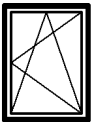
Glazing:

Security
infrangible glass:
DIN 52,290 - A3
or
DIN EN 356 - P4A

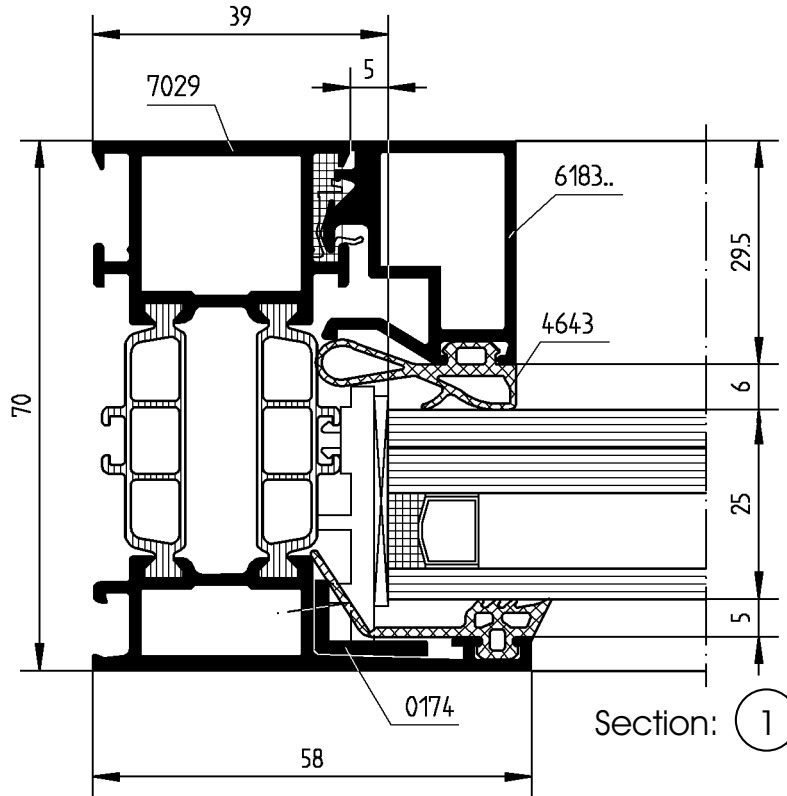
Glass binding:

By gluing of certificated materials on outer frames, rungs or vent profiles under consideration of SYKON production instructions and of prescriptions of (gluing material) supplier.

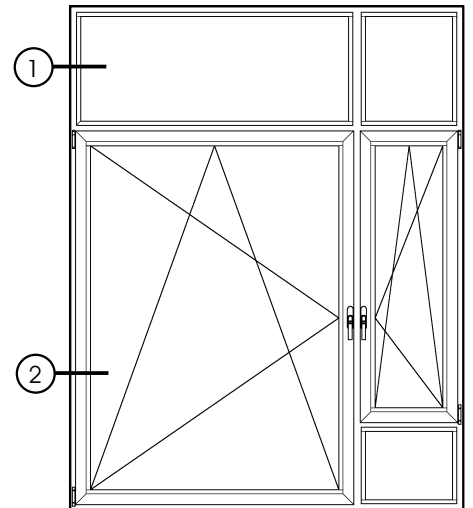




Burglar protected tilt and turn window
Resistance class **WK 3** according to DIN ENV 1627
Certification of anti burglar properties:
Test report 211 28241 at November 2004 - iff Rosenheim
The certification stands for glazing with reinstregh profiles and tilt and turn window with security sash profile 7024 security glazing beads in straight line and additional security of vertical glazing beads with covered screws or adhesion.



Section: ①



Accessories:

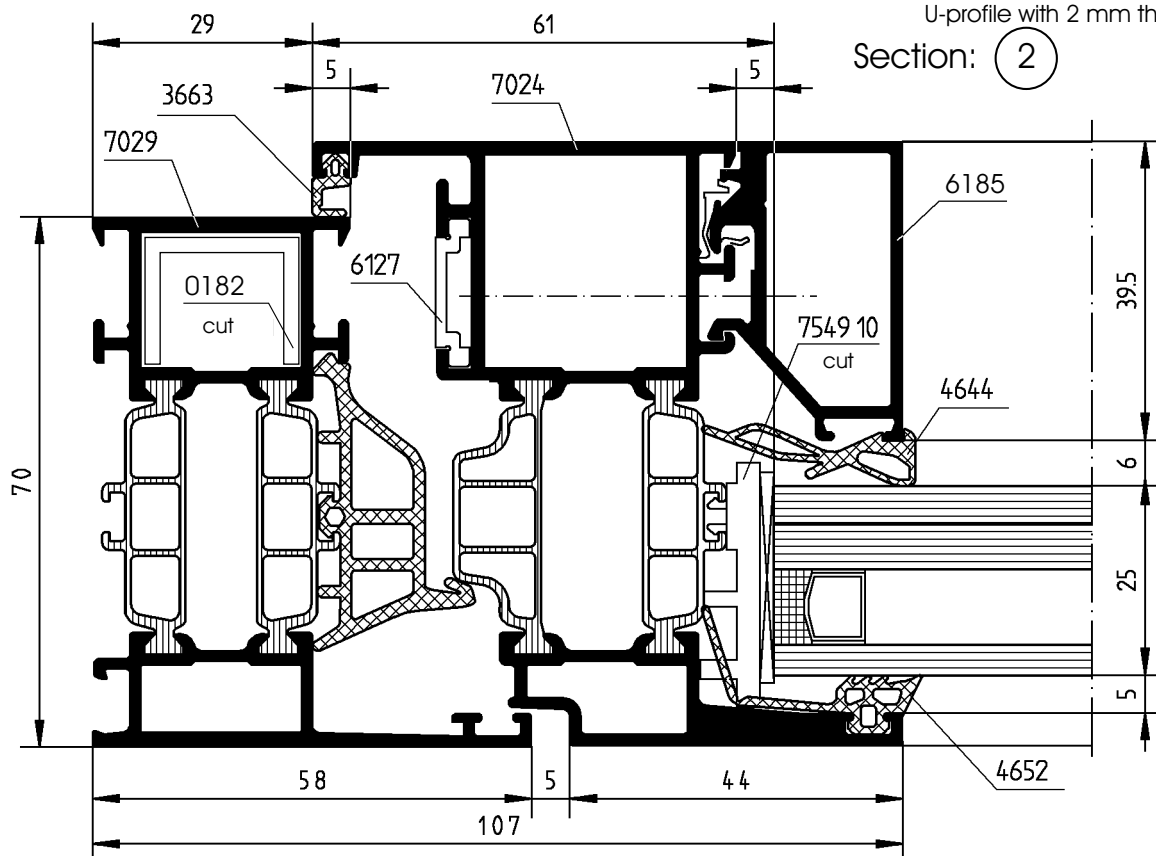
7472 Burglar protected tilt and turn mechanism WK 3

Glazing:

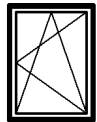
Security
infrangible glass:
DIN EN 356 - PA
or
infrangible:
DIN EN 356 - P6B/
DIN 52290 - B1
Construction of cut profile
with security infrangible glass
P5A according DIN EN 356

Chamber reinforcement

for SH locking WK 3
U-profile with 2 mm thickness.



Section: ②



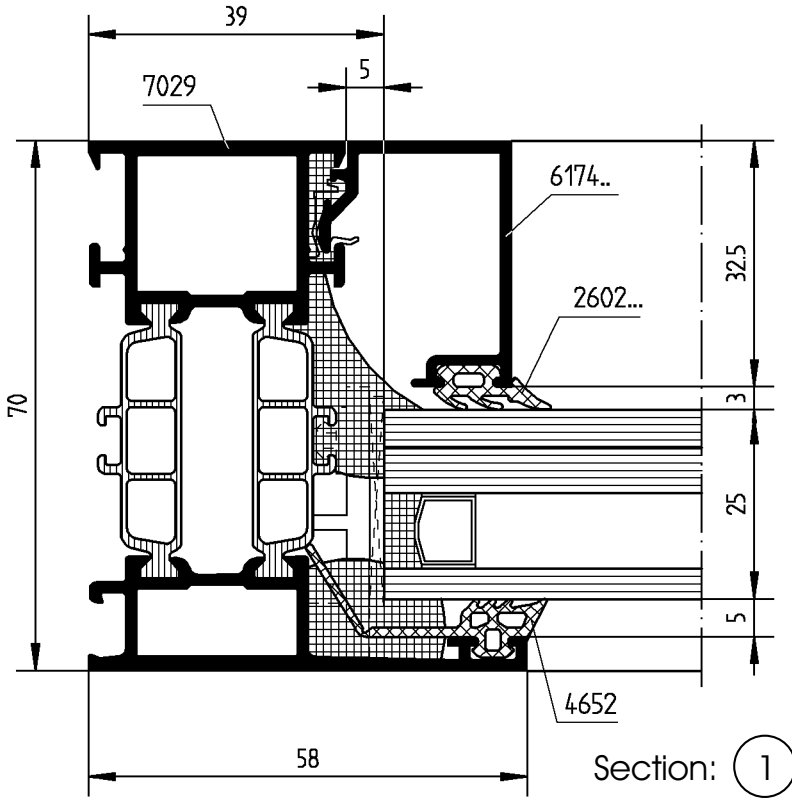
Burglar protected tilt and turn window

Resistance class WK 3 according to DIN ENV 1627

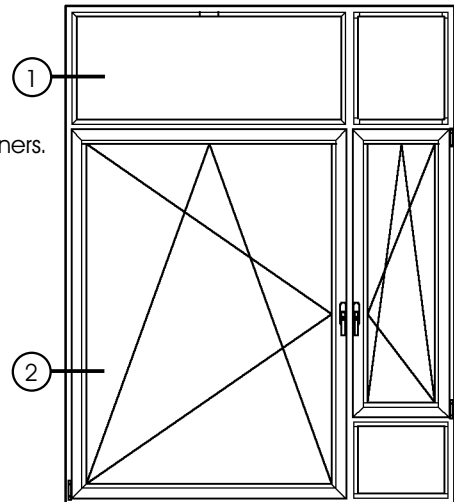
Certification of anti burglar properties:

Test report 211 28241 at 08 November 2004 - iff Rosenheim

The certification stands for the glazing and tilt and turn window with basic profiles 7032 and 7025. Standard glazing beads in straight or curved line, in miter cut or with additional glazing bead corners. Glazing beads and glass tie are glued.



Section: 1



Accessories:

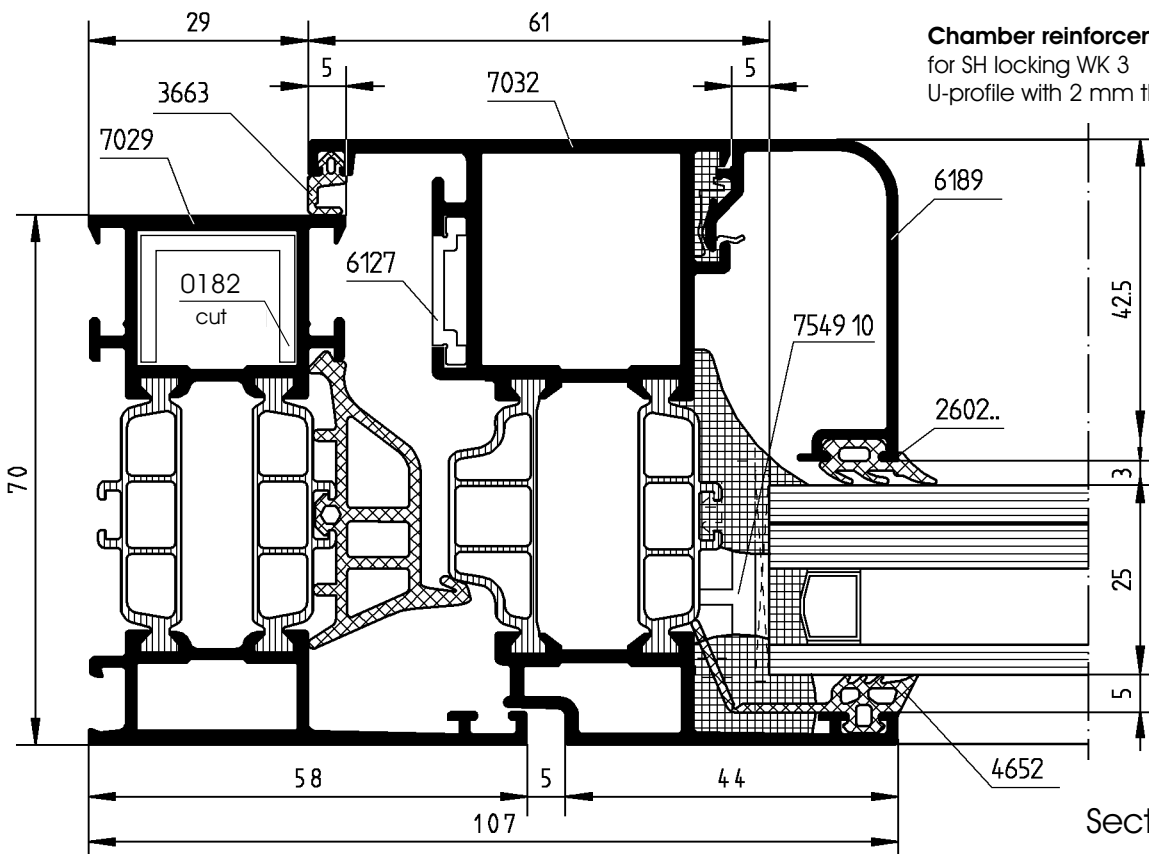
7472 Burglar protected tilt and turn window WK 3

Glazing:

Security
infrangible:
DIN EN 356 - PÄ
or
infrangible glass:
DIN EN 356 - P6B/
DIN 52290 - B1

Glass binding:

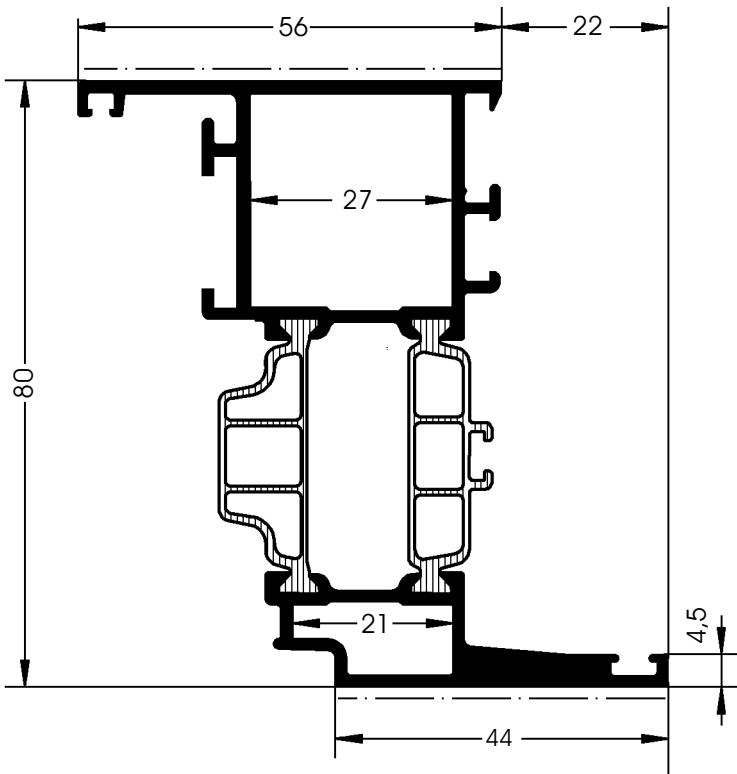
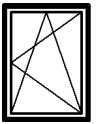
By gluing of certificated materials on outer frames, rungs or vent profiles under consideration of SYKON production instructions and of prescriptions of (gluing material) supplier.



Section: 2

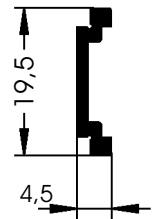
Chamber reinforcement

for SH locking WK 3
U-profile with 2 mm thickness.

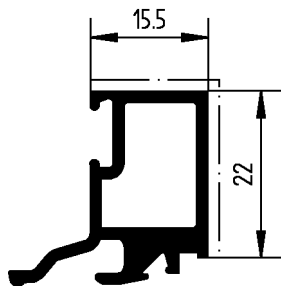


7024	Inside Profile	Outside Profile
Evolute: (mm)		
Visible width: 96	56	43
Perimeter: 372	275	162
PE / NE-Corner joint:	7515	7516
Pin for NE :	5500	5500

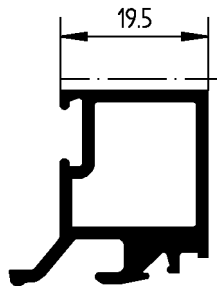
6127
Evolute: (mm)
Visible width: 54
Perimeter: 54



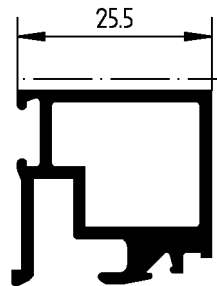
6180
Evolute: (mm)
Visible width: 37
Perimeter: 130



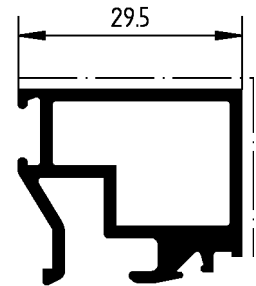
6181
Evolute: (mm)
Visible width: 41
Perimeter: 131



6182
Evolute: (mm)
Visible width: 47
Perimeter: 153

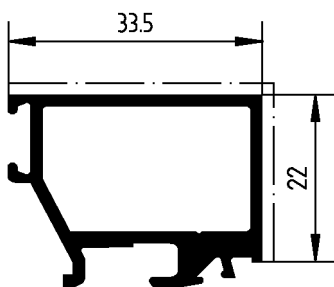


6183
Evolute: (mm)
Visible width: 51
Perimeter: 162

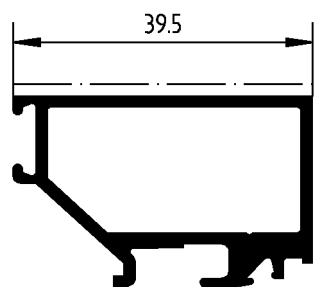


Glazing beads 6180 and 6181 could be placed in frames or rungs only without synthetic holder.

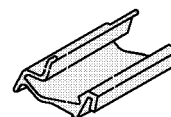
6184
Evolute: (mm)
Visible width: 55
Perimeter: 150



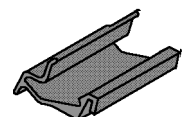
6185
Evolute: (mm)
Visible width: 61
Perimeter: 160



4550
Synthetic holder
for anodized profile
Colour: white
4 pieces/m
O.U. = 100 pieces



4551
Synthetic holder
for coloured profile
Colour: blue
4 pieces/m
O.U. = 100 pieces





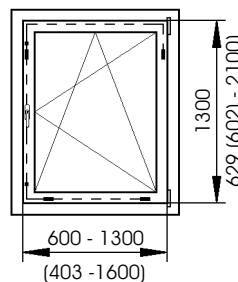
Burglar protected tilt and turn mechanism resistance class WK 1 according DIN ENV 1627.

7470 Burglar protected tilt and turn mechanism WK 1 ALU 400 i Clamping

Can be used right/left with faulty operation device and 4 security lockings from aluminium stainless steel. Chromone bolt in round form with lock opening width 160mm. Visible fitting parts in silver coloured, white or black

Total leaf weight 90 kg (130 kg)
O.U. = 1 piece

Up to leaf size 1300 x 1300 (1600 x 2100) mm over leaf width / leaf height 1300 mm with additional locking with 5456 40 and 5457. See the leaf diagram. Over leaf width 1300 mm with secondary arm 7449.

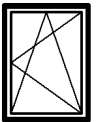


- 7470** Tilt and turn mechanism WK 1 like previous, silver
- 7470 04** white
- 7470 05** black
- 7470 10** Tilt and turn mechanism WK 1 like previous, silver but with shorter arm for leaf width 403 up to 600 mm.
- 7470 14**
- 7470 15**
- 7470 50** Tilt and turn mechanism WK 1 like 7470, silver but with covered gearing transmission Square pin 7 mm, without chromone bolt.
- 7470 54**
- 7470 55**
- 7470 60** Tilt and turn mechanism WK 1 like previous with covered gearing transmission, silver, but with shorter arm for leaf width 403 up to 600 mm.
- 7470 64**
- 7470 65**

- 7440 90** Additional charge Leaf weight 90 kg up to 130 kg
- 7440 94** white
- 7440 95** black
- 5456 40** Locking pin Plugable and adjustable O.U. = 10 pieces
- 5457** Locking safety wedged, can be used right/left O.U. = 10 pieces
- 5457 20** Security locking from Aluminium O.U. = 10 pieces

Arm operation for leaf weight up to 130 kg

Size specification in mm:		up to leaf width max.		up to leaf height max.		balcony door leaf size max.
Profile	leaf size max.	without locking	additional locking	standard locking	additional locking	
7035, 7065	2,2 m ²	1200	1550	1300	1800	2,1 m ²
7024, 7032	3,0 m ²	1300	1600	1300	2100	
7025	3,0 m ²	1300	1600	1300	2100	2,2 m ²

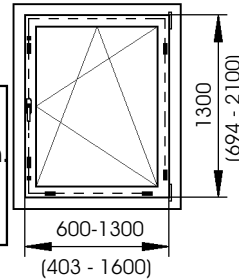


Burglar protected tilt and turn mechanism resistance class WK 2 according DIN ENV 1627.
Additional SH-locking at the upper side over leaf 1300 mm leaf width

7471 Burglar protected tilt and turn mechanism WK 2 ALU 400 i Clamping


Can be used right/left with faulty operation device and 6 security lockings from hard brass/stainless steel, 2 security corner transmissions chremone bolt in round form with lock, opening width 160mm visible fittings parts in silver, white or black colour.
Total leaf weight 90 kg (130 kg)
O.U. = 1 piece


Up to leaf size 1300 x 1300 (1600 x 2100) mm over leaf width/height 1300 mm with additional locking with 5456 40 and 5457. See the leaf diagram.
Over 1300 mm leaf width with secondary arm 7449 and additional security lockings on the upper side: 5456 30 SH 5457 10 SH



- 7471** Tilt and turn mechanism WK 2 like previous, but silver
- 7471 10** Tilt and turn mechanism WK 2 like previous, but silver but with shorter arm for leaf width 403 up to 600 mm.
- 7471 50** Tilt and turn mechanism WK 2 like 7471, but silver but with covered gearing transmission Square pin 7 mm, without chremone bolt.
- 7471 60** Tilt and turn mechanism WK 2 like previous with covered gearing transmission, silver, but with shorter arm for leaf width 403 up to 600 mm.
- 7471 04** white
- 7471 05** black
- 7471 14**
- 7471 15**
- 7471 54**
- 7471 55**
- 7471 64**
- 7471 65**

- 7440 90** Additional charge leaf weight 90 kg up to 130 kg
- 7440 94** white
- 7440 95** black

-  **5456 30** Security locking pin from hard brass and stainless steel, plugable and adjustable
O.U. = 10 pieces

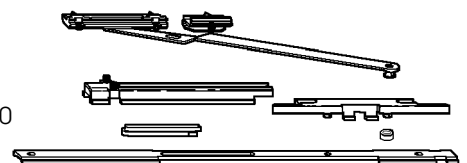
-  **5457 10** Security locking safety from hard brass
O.U. = 10 pieces

-  **5456 40** Locking pin plug able and adjustable
O.U. = 10 pieces

-  **5457** Locking safety can be used right/left
O.U. = 10 pieces

- 7449** Secondary tilt arm Secondary tilt arm over leaf width 1300 (min. 1000 mm)
O.U. = 1 piece

Arm operation for leaf weight up to 130 kg



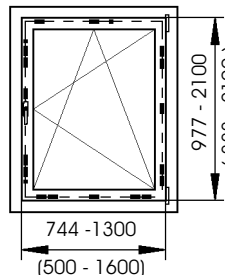


Burglar protected tilt and turn mechanism resistance class WK 3 according to DIN EN 1627.

7472 Burglar protected tilt and turn mechanism WK 3
ALU 400 i Clamping

Can be used right/left with faulty operation device and 17 security locking WK 3, 2 security corner, chremone bolt in round form with lock opening width 150 mm, Visible fitting parts in silver, white or black coloured
Total leaf weight 90 kg (130 kg)
O.U. = 1 piece

Up to leaf size 1600 x 2100 mm
See the leaf diagram. Over leaf width 1300 mm with secondary arm 7449 chumpfen reinforcement for SH-Locking WK 3.
U profile with 2 mm thickness



7472 Tilt and turn mechanism WK 3 like previous, but silver

7472 04 white
7472 05 black

7472 10 Tilt and turn mechanism WK 3 like previous, but silver but with shorter tilt arm and 13 SH- lockings for leaf width 500 up to 743mm.

7472 14 **7472 15**

7472 50 Tilt and turn mechanism WK 3 like 7472, but silver but with covered gearing transmission Square pin 7 mm, without chremone bolt.


7472 54 **7472 55**

7472 60 Tilt and turn mechanism WK 3 like previous with covered gearing transmission, silver, but with shorter tilt arm for leaf width 500 up to 743 mm.


7472 64 **7472 65**

7440 90 Additional charge leaf weight 90 kg up to 130 kg

7440 94 white
7440 95 black

 **5456 50** Security locking pin WK 3 from brass stainless steel, plug able and adjustable
O.U. = 10 pieces

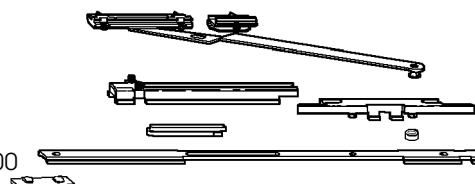
Arm operation for leaf weight up to 130 kg

 **5457 10** Security locking safety from hard brass
O.U. = 10 pieces

 **5456 40** Locking pin plugable and adjustable
O.U. = 10 pieces

 **5457** Locking safety can be used right/left
O.U. = 10 pieces

7449 Secondary tilt arm With coupler for mechanism WK 3 Secondary tilt arm over leaf width 1300 (min. 1179 mm)
O.U. = 1 piece





0453

Chremone bolt

Round form with lock, from aluminum attachment 43 mm, Lobe with 10 mm diameter, Pin 7 mm, 30 mm projecting, in silver-coloured (other colours by request)
O.U. = 1 piece

0454

Chremone bolt

With lock from aluminum, attachment 43 mm, lobe with 10 mm diameter, Pin 7 mm, 30 mm projecting, in silver-colored (other colours and also in stainless steel by request)
O.U. = 1 piece

0455

Chremone bolt

With lock from aluminum, attachment 43 mm, lobe with 10 mm diameter, Pin 7 mm, 30 mm projecting, silver-colored.
O.U. = 1 piece

Hint:
chremone bolt 0455 in opening position projecting length 10 mm

Abstract from DIN ENV 1627

Burglar protected accessories according DIN ENV 1627 will be categorized in the following resistance class:

WK 1 - basic security fitting part of resistance class 1 show a basic. Show a basic protection against attempts by physical force like kicks, bounce, shoulder hits, raising up and pulling out.

WK 2 - high security level like previous, additionally prevents simple tools like screwdriver, pliers and wedges from breaking in the locked construction.

WK 3 - highest security level like previous additionally prevents second screwdriver to break in the locked construction.

The adherence to the requirements is proven by examination

The examination consists of static stress, shock loading and starting from resistance class WK 2 is made a manual examination with different tool kits and given resistance times

The static load in the resistance class WK 1 and WK 2 is uniform for example: at the corners and the points of locking 3 kN with a deflection of max.8 (10)-mm. The chremone bolt must have lock and drilling protection.

The locking pins must have shift operation. The installation of anti burglar constructions must be done to solid walls.

The client must ask for a work and assembly certificate. Every anti burglar window according to DIN ENV 1627 must have a marking sign in which is written the resistance class. Certificate form and marking signs available on request

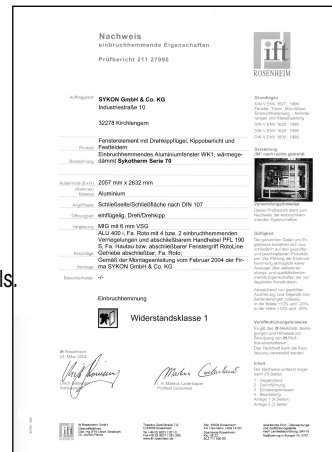
Marking sign -description:

0902 30 Burglar protected window WK 1 according to DIN ENV 1627

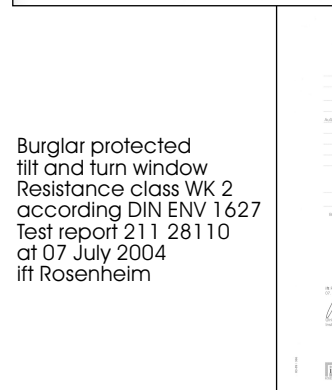
0902 40 Burglar protected window WK 2 according to DIN ENV 1627

0902 50 Burglar protected WK 3 according EN ENV 1627

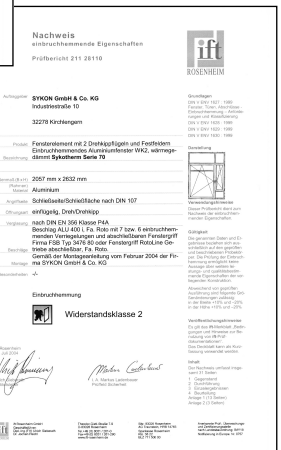
Deviation from the examined sizes is permissible: Width and height +10%, -20%

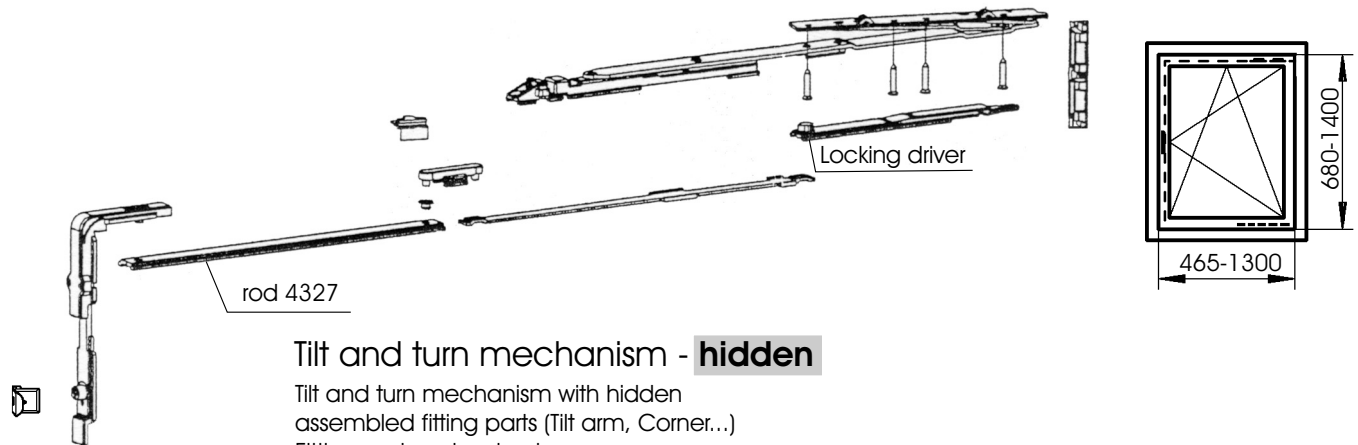
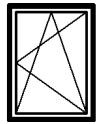


Burglar protected tilt and turn window Resistance class WK 1 according DIN ENV 1627 Test report 211 27990 at 23 March 2004 ift Rosenheim



Burglar protected tilt and turn window Resistance class WK 2 according DIN ENV 1627 Test report 211 28110 at 07 July 2004 ift Rosenheim





Tilt and turn mechanism - hidden

Tilt and turn mechanism with hidden assembled fitting parts (Tilt arm, Corner...)
Fitting parts galvanized.
Opening width 160 mm.
Total leaf weight **max.80 kg**
O.U. = 1 piece

Up to leaf size 1300 x (1300) 1400 mm
See the leaf diagram.

7450 50 Tilt and turn mechanism DIN right, covered
7451 50 Tilt and turn mechanism DIN left, covered

for leaf width **465 to 620 mm**,
with covered gearing transmission (thorn 18 mm)
without chremone bolt and faulty operation
device square pin 7 mm.

Mechanism with locking driver and closing tilt arms.

7452 50 Tilt and turn mechanism DIN right, covered
7453 50 Tilt and turn mechanism DIN left, covered

for leaf width **621 to 1000 mm**,
like previous.

7454 50 Tilt and turn mechanism DIN right, covered
7455 50 Tilt and turn mechanism DIN left, covered

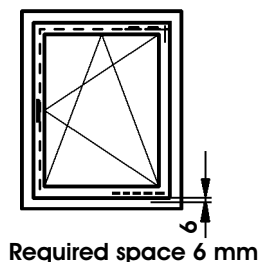
for leaf width **1001 to 1300 mm**,
like previous

Leaf width 465 up to 1300 mm
Leaf height 680 mm (with centroid chremone bolt) up to (1300) 1400 mm.
Over leaf width 1200 mm with additional locking.

5453 Additional 700 or: **5452** Corner transmission
5453 10 Locking **5456** Locking pin
5457 Locking safety

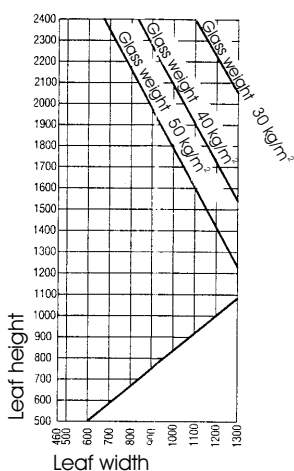
Size specification in mm: **up to leaf width max.** **up to sash height max.**

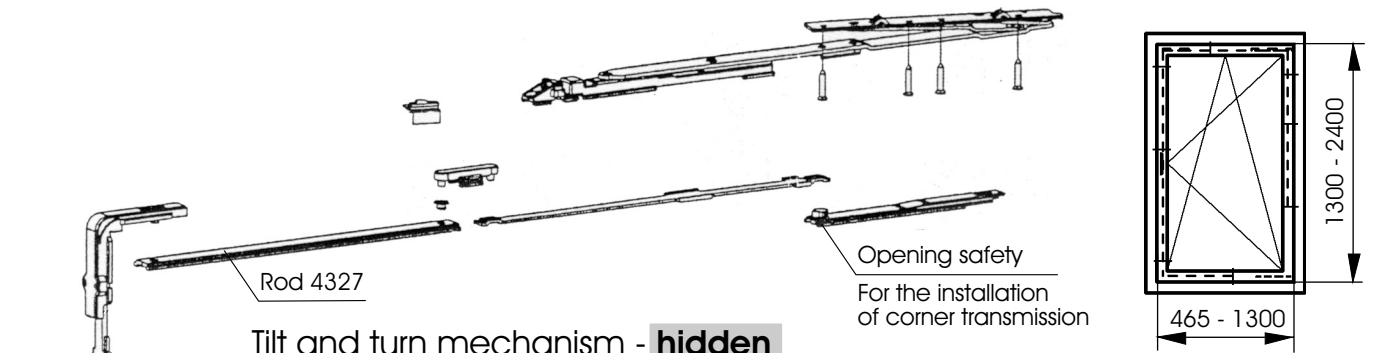
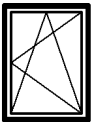
Profile	Leaf size max.	standard locking	additional locking	max. standard locked
7035	2,2 m ²	1200	1300	1300
7032	2,75 m ²	1300	1300	1400
7025	3,0 m ²	1300	1300	1400
7072	2,25 m ²	1200	1300	1300
7065	2,2 m ²	1200	1300	1300



Required space 6 mm

Application Diagram





Tilt and turn mechanism - hidden

Tilt and turn mechanism with hidden assembled fitting parts (Tilt arm, Corner...) Fitting parts galvanized. Opening width 160 mm. Total leaf weight **max. 80 kg** O.U. = 1 piece

Mechanism with additional lockings:
by request
5452 with 5456/5457
or
5453, 5453 10, 5454.

Up to leaf width 1300 mm and over leaf height (1300) 1400 mm up to max. 2400 mm with additional locking 5452... See the diagram

7456 50 Tilt and turn mechanism DIN right, covered
7457 50 Tilt and turn mechanism DIN left, covered

for leaf width **465 to 620 mm**, with covered gearing transmission (thorn 18 mm) without chremone bolt and faulty operation device square pin 7 mm. **Accessory with locking driver for installation of corner transmission as a vertical side locking.**

7458 50 Tilt and turn mechanism DIN right, covered
7459 50 Tilt and turn mechanism DIN left, covered

for leaf width **621 up to 1000 mm**, like previous

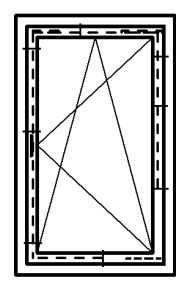
7460 50 Tilt and turn mechanism DIN right, covered
7461 50 Tilt and turn mechanism DIN left, covered

for leaf width **1001 up to 1300 mm**, like previous

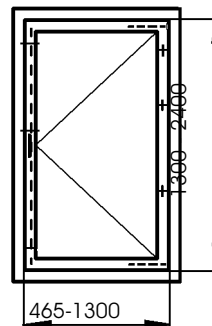
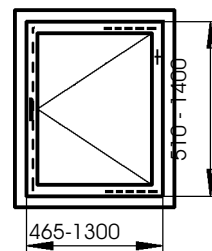
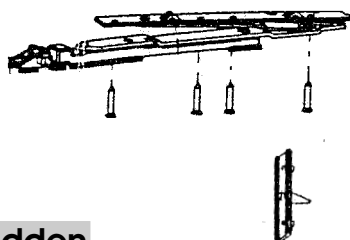
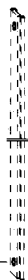
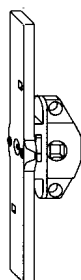
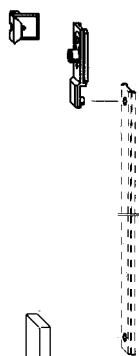
Leaf width 465 up to 1300 mm
leaf height 680 mm (with centroid chremone bolt) up to 2400 mm.
Over leaf width 1200 mm additional locking
or leaf height 1300 mm additional locking.

- 5453** Additional locking 700 or: **5452** Corner transmission
- 5453 10** Additional locking **5456** Locking pin
- 5454** Vertical-Additional locking 2400 **5457** Locking safety

Size specification in mm: **up to leaf width max.** **up to leaf height max.**



Profile	leaf size max.	up to leaf width max.		up to leaf height max.		balcony door
		standard locking	additional locking	standard locking	additional locking	
7035	2,2 m ²	1200	1300	1300	1800	leaf size max. 2,2 m ²
7032	2,75 m ²	1300	1300	1400	2100	
7025	3,0 m ²	1300	1300	1400	2400	
7072	2,25 m ²	1200	1300	1300	2100	2,1 m ²
7065	2,2 m ²	1200	1300	1300	1800	



Opening mechanism - **hidden**

With covered assembled
 Fitting parts (arm, transmission, corner...)
 Fitting parts galvanized.
 Total leaf weight **max. 80 kg**
 O.U. = 1 piece

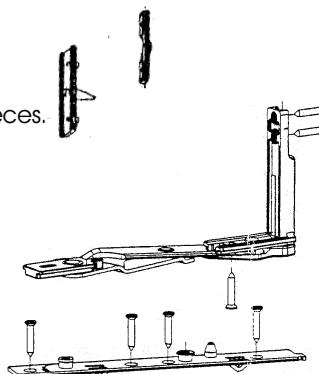
Up to leaf size 1300 (1200) x 1400(2400) mm
 see leaf size diagram

7462 50 Tilt and turn mechanism DIN right, covered
7463 50 Tilt and turn mechanism DIN left, covered

for leaf width 465 up to 1300 mm,
 with covered gearing transmission (thorn 18 mm)
 and faulty operation device, square pin 7 mm,
 without chromone bolt. Mechanism with
 upper locking on the arm.

7469 Middle locking

Side locking over leaf height
 1300 (1400) mm
 1 piece, over 1700 mm 2 pieces.
 O.U. = 1 piece



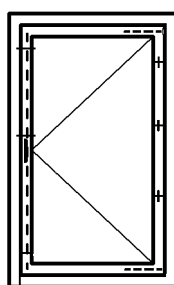
Leaf width 465 up to 1300 mm.
 leaf height 510 up to 1400 (2400) mm, over leaf
 height 1300 mm additional locking.

5456 Locking pin
5457 Locking safety

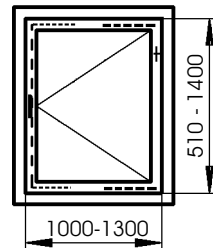
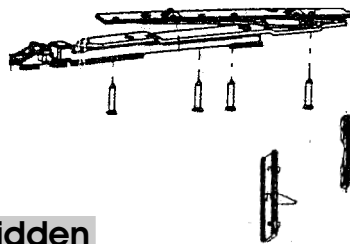
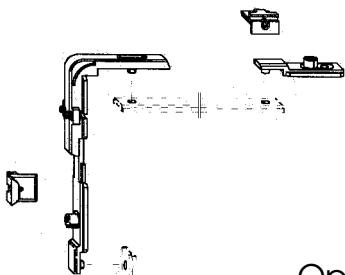
7469 Middle locking
 (side)

Size specification (in mm)

up to leaf width max. up to leaf height max.



Profile	leaf size max.	Without locking	standard locking	additional locking
7035	2,2 m ²	1200	1300	1800
7032	2,75 m ²	1300	1400	2100
7025	3,0 m ²	1300	1400	2400
7072	2,25 m ²	1200	1300	2100
7065	2,2 m ²	1200	1300	1800



Opening mechanism - hidden

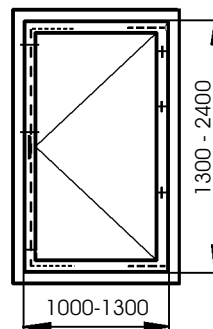
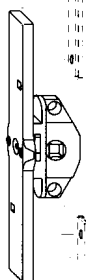
Opening mechanism with hidden assembled fittings (arm, transmission corner...).

Fitting parts galvanized.

Total leaf weight **max. 80 kg**

O.U. = 1 piece

Up To leaf size 1300 x 1400(2400) mm
see the leaf size diagram



7464 50 Opening mechanism DIN right, covered
7465 50 Opening mechanism DIN left, covered

for leaf width 1000 up to 1300 mm,

with covered gearing transmission (thorn 18 mm) and faulty operation device, square pin 7 mm, on the arm.

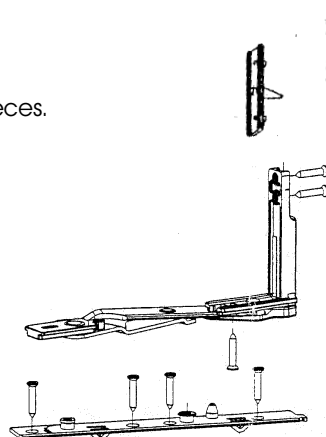
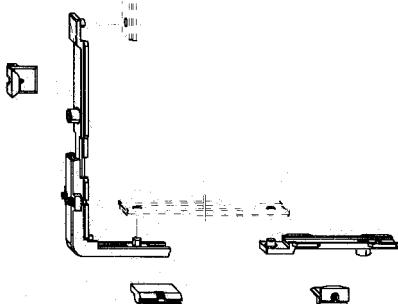
Mechanism with corner transmission and closing part for horizontal locking.

7469 Middle locking

Side locking over leaf height 1300 (1400) mm

1 piece, over 1700 mm 2 pieces.

O.U. = 1 piece

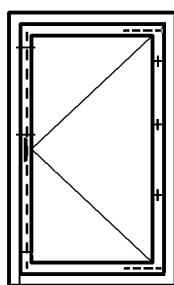


Leaf width 1000 up to 1300 mm.
Leaf height 510 up to 1400 (2400) mm, over leaf height 1300 mm additional locking

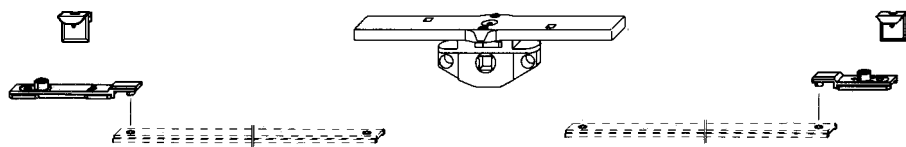
5456 Locking pin
5457 Locking safety

7469 Middle locking (side)

Size specifications (in mm)



Profile	leaf size max.	up to leaf width max.		up to leaf height max.	
		standard locking	additional locking	standard locking	additional locking
7035	2,2 m ²	1200	1300	1300	1800
7032	2,75 m ²	1300	1300	1400	2100
7025	3,0 m ²	1300	1300	1400	2400
7072	2,25 m ²	1200	1300	1300	2100
7065	2,2 m ²	1200	1300	1300	1800

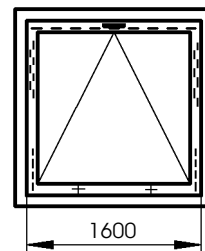
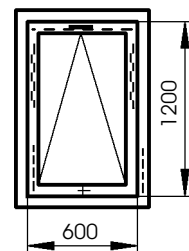
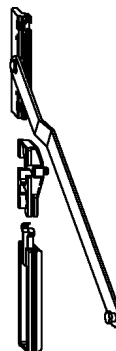
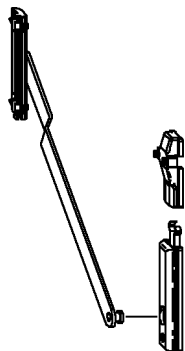


Tilt mechanism - covered

Tilt mechanism with covered assembled fitting part (Tilt arm)
Fitting parts galvanized
Opening width 160 mm.

Total leaf weight **max. 80 kg**
O.U. = 1 piece

Up to leaf size 510 (1600) x 1200 mm
See the leaf diagram

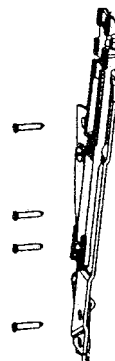
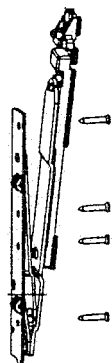


7466 50 Tilt mechanism, covered

for **leaf width 510 up to 1600 mm**,
with covered gearing transmission (thorn 18 mm)
and faulty operation device, square pin 7 mm,
without chremone bolt

7469 Middle locking

lower locking
over leaf width 600 mm 1 piece,
over 1200 mm 2 pieces.
O.U. = 1 piece

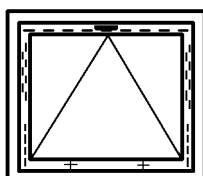


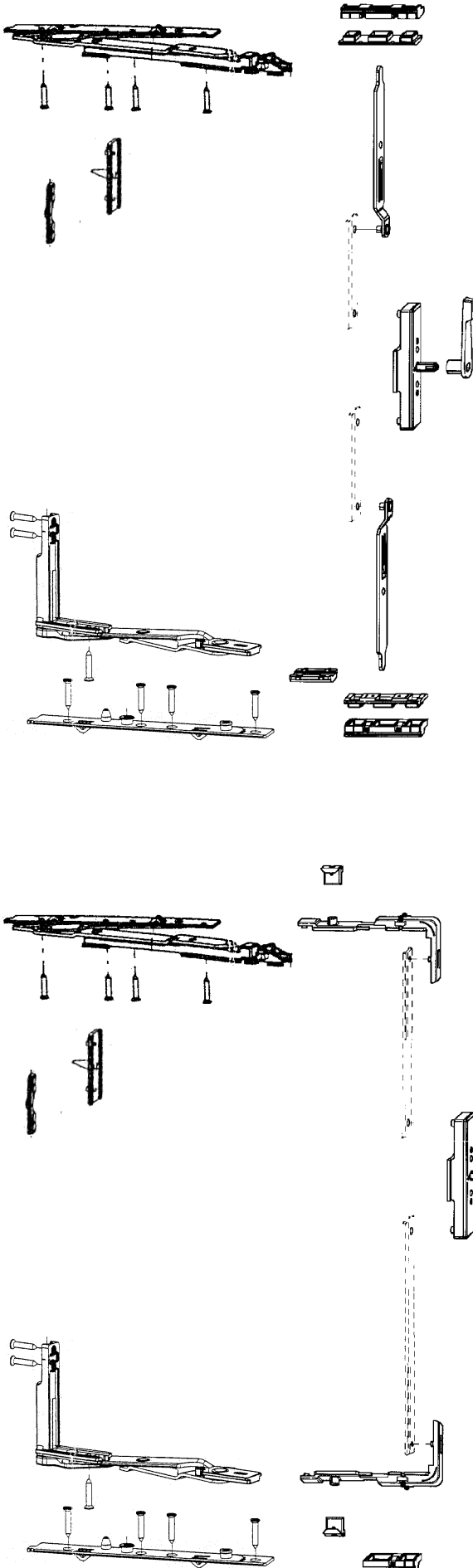
Leaf width 510 up to (600) 1600 mm
Leaf height 600 up to 1200 mm
Over leaf width 600 mm additional 1 piece middle locking 7469,
over leaf width 1200 mm 2 pieces middle locking 7469 with also
additional locking with locking safety 5457/and locking pin 5456.

- 5456** Locking pin
- 5457** Locking safety
- 7469** Middle locking

Size specifications in mm:

Profile	up to leaf width max.		up to leaf height max.
	standard locking	additional locking	
7035	600	1600	1200
7032	600	1600	1200
7025	600	1600	1200
7072	600	1600	1200
7065	600	1600	1200

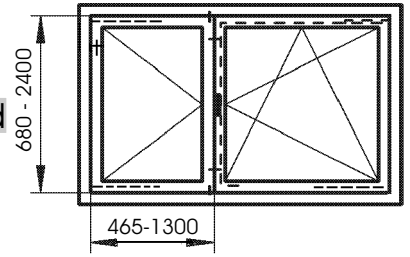




Tilt and turn mechanism - **covered**

Assembled fittings tilt arm, corner transmission
Fitting parts galvanized.

Total leaf weight **max.80 kg**
O.U. = 1 piece



Leaf width 450 up to (1200) 1300 mm.
Leaf height 680 up to 1200 (2400) mm
over leaf height 1300 mm
with additional 1 piece middle locking 7469
and over 1700 mm 2 pieces middle locking.

7467
7468

Tilt and turn mechanism DIN left
Tilt and turn mechanism DIN right

For leaf width 450 up to 1300 mm
with covered gearing transmission.
Mechanism with upper middle locking.

7469

Middle locking
For hinge-sided locking
O.U. = 1 piece



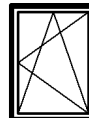
7467 10 Tilt and turn mechanism DIN left
7468 10 Tilt and turn mechanism DIN right
for leaf width 1000 up to 1300 mm
with covered gearing transmission. Mechanism
with upper middle locking and with corner
transmission for horizontal locking.

Leaf width 1000 up to 1300 mm.
Leaf height 680 mm up to 1300 (2400) mm,
over leaf height 1300 mm with additional 1 piece
middle lock 7469 and 2 pieces middle lock.

5456 Locking pin **7469** Middle locking
5457 Locking safety

Size specifications (in mm)

Profile	leaf size max.	Window width max.	up to leaf height max.		Balcony door leaf size max.
			standard locking	additional locking	
7035	1,8 m ²	1200	1300	1800	2,2 m ²
7032	2,1 m ²	1300	1400	2100	
7025	2,4 m ²	1300	1400	2400	
7065	1,8 m ²	1200	1300	1800	



6470 50 RS
6471 50 LS

Tilt and turn mechanism
for curved and beveled windows

Complete with covered gearing transmission
with bigger mandrel and faulty operation device,
square pin 7 mm, with chremone bolt.
Adjustable height for opening mechanism and
separate tilt mechanism, from different material,
visible fitting, parts
silver coloured

Total leaf height max. 80 kg
O.U. = 1 piece

Chremone bolt
see page 103

Leaf width min. 500 mm up to max. 1200 mm
Leaf height min. 800 mm up to max. 2200 mm.
Total leaf height max. 80 kg.
See the instructions and the leaf diagram.

6470 54 RS Tilt and turn
mechanism
for curved and
beveled windows
Like previous, but white

6471 54 LS white

6470 57 RS like previous, but dark brown

6471 57 LS dark brown

6472
Middle
locking bar

Only for
curved windows
see the instructions

O.U. = 1 piece

6473
Additional arm

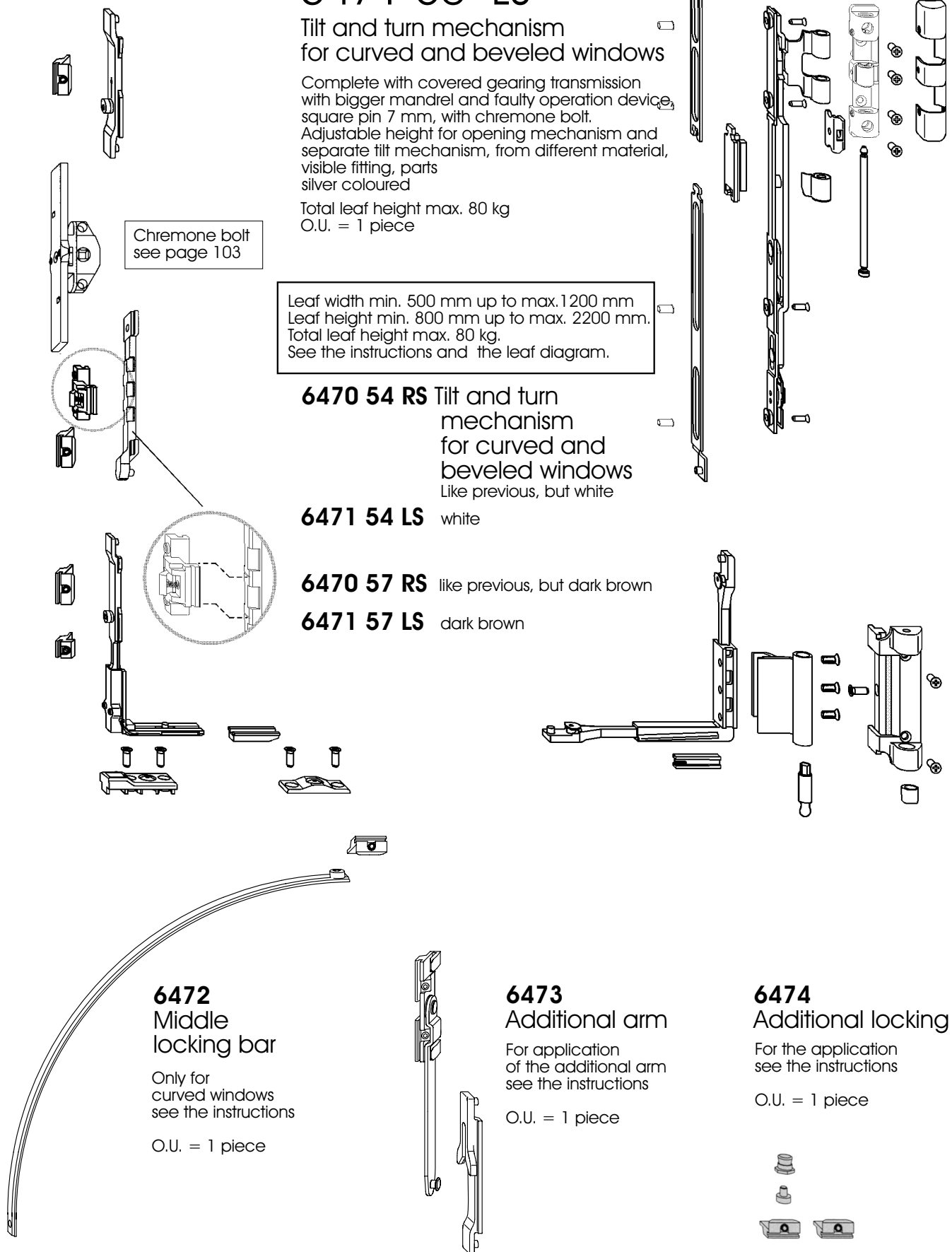
For application
of the additional arm
see the instructions

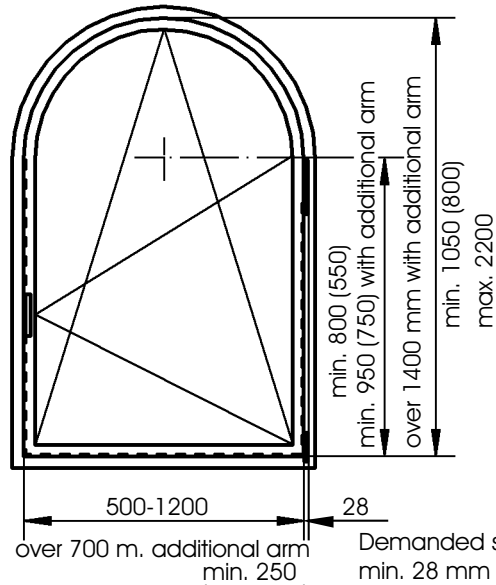
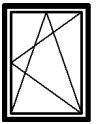
O.U. = 1 piece

6474
Additional locking

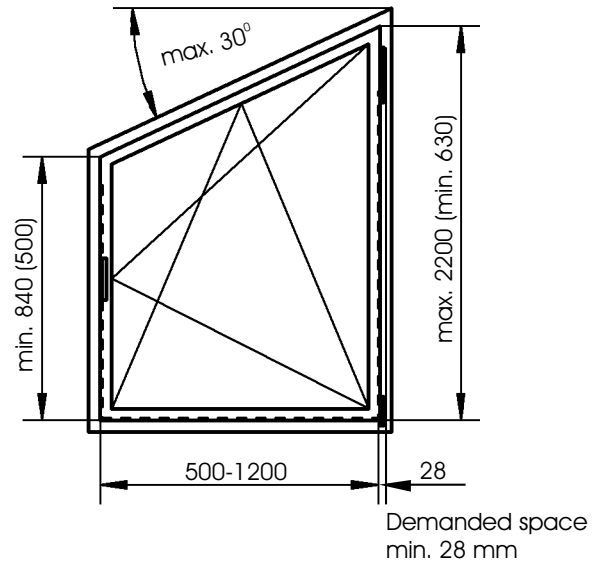
For the application
see the instructions

O.U. = 1 piece

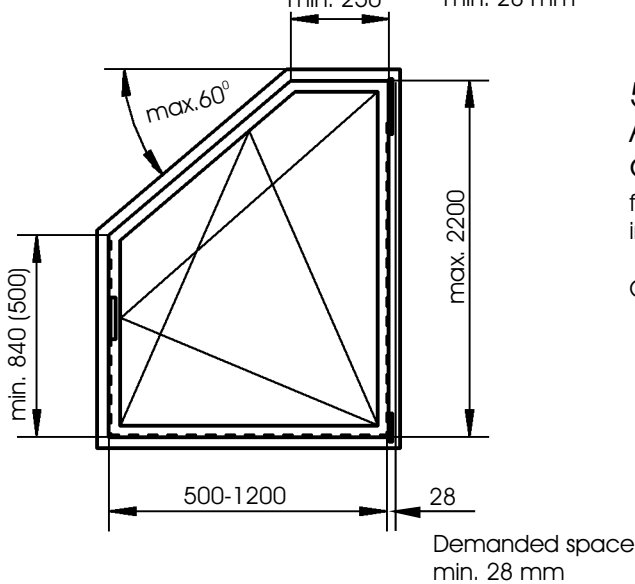




over 700 m. additional arm
min. 250
Danded space
min. 28 mm



Danded space
min. 28 mm



Danded space
min. 28 mm

5471
Adjustable
corner transmission
for additional locking
in beveled windows

O.U. = 1 piece

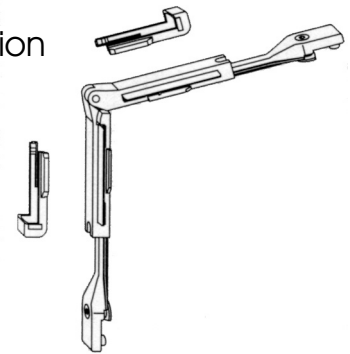
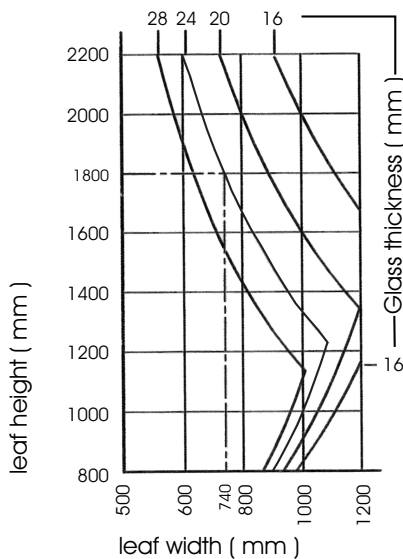


Diagram for estimation of permissible sizes



Example (---)

leaf height = 1800 mm
glass thickness = 24 mm
permissible leaf width
leaf width = 740 mm

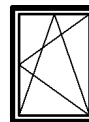
Glasdicke (mm)	Weight kg / m ²
28	70
24	60
20	50
16	40
12	30

max. leaf weight 80 kg

Size specifications

Profile	Up to leaf height max.
7035	1800 mm
7032	2100 mm
7025	2200 mm
7072	2100 mm
7065	1800 mm

For glass thickness under 12 mm all leaf sizes are permissible, as long as the ratio of the 2 dimensions width/height does not exceed 1,5.



0431

Skylight mechanism

Incumbent flat form with arms left and right without joints and hinges. Complete with chremone bolt, corner transmission and screws. EV 1 anodized, steel parts galvanized
O.U. = 1 piece

0431 04

Skylight mechanism

like previous, but white

0431 07

Skylight mechanism

like previous, but bronze

Total leaf weight max. 80 kg
Leaf size max. 2.5 m²

Number forms	Leaf width	Filling weight max.
1	380 - 1200 mm	30 kg/m ²
2	900 - 2400 mm	30 kg/m ²
3	1300 - 3600 mm	25 kg/m ²

0432

Additional arm

Incumbent flat form for skylight 0431, left and right complete with screws EV1 anodized, steel parts galvanized
O.U. = 1 piece

0432 04

Additional arm

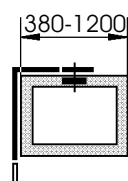
like previous, but white

0432 07

Additional arm

like previous, but bronze

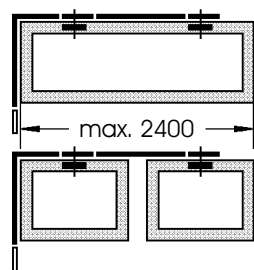
Leaf height 300 mm
up to max.1200 mm



0306

Joint

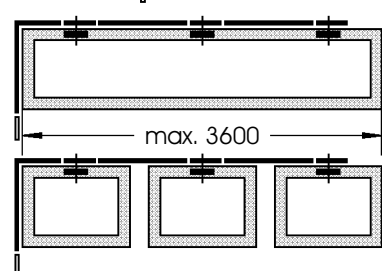
Diameter 8 mm for skylight mechanism 0431, Steel parts galvanized. Length 6 m
O.U. = 1 piece



0307

Joining cover

of aluminum, 16 mm width for skylight 0431, EV 1 anodized, length 6 m
O.U. = 1 piece



0307 04

Joining

like previous, but white

0307 07

Joining

like previous, but bronze

2830

Drilling plate

for incumbent skylight mechanism 0431, 0432
O.U. = 1 piece



On request available:

- * rotary chremone bolt
- * arm with faulty operation device
- * security handle
- * arm for beveled window
- * mechanism for curtain wall constructions
- * additional locking
- * flexible rod
- * vertical transmission
- * horizontal transmission
- * corner transmission
- * permanent of removable crank shaft
- * Electric activation

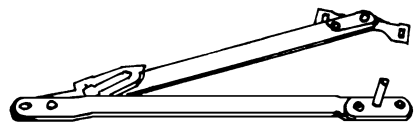
0441

KSP Hidden security arm left

0442

KSP Hidden security arm right

covered, **size 2** for 500-1200 mm frame, Steel galvanized, Leaf weight max.80 kg with 2 KSP arms installation
O.U. = 1 piece



0441 10

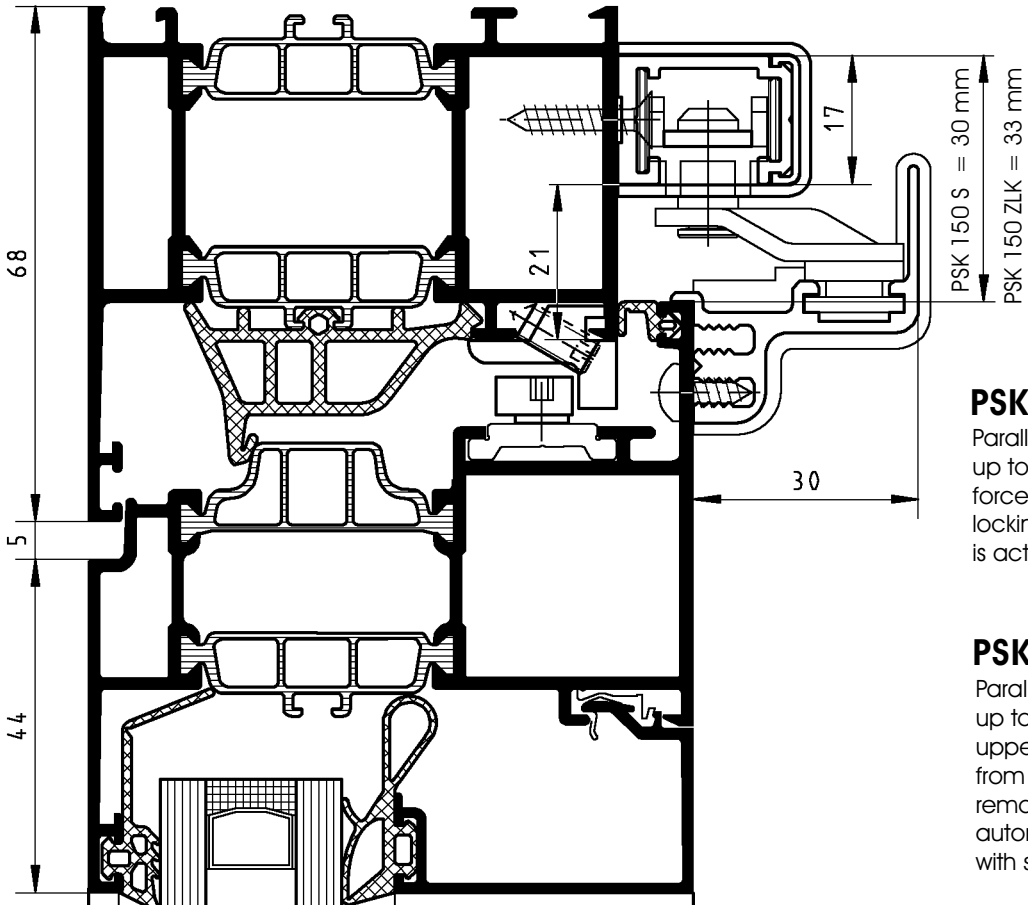
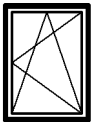
KSP Hidden security arm left

0442 10

KSP Hidden security arm right

like previous, but sizes for 300 - 500 mm frame height
O.U. = 1 piece

For skylight windows there is specification for security arms

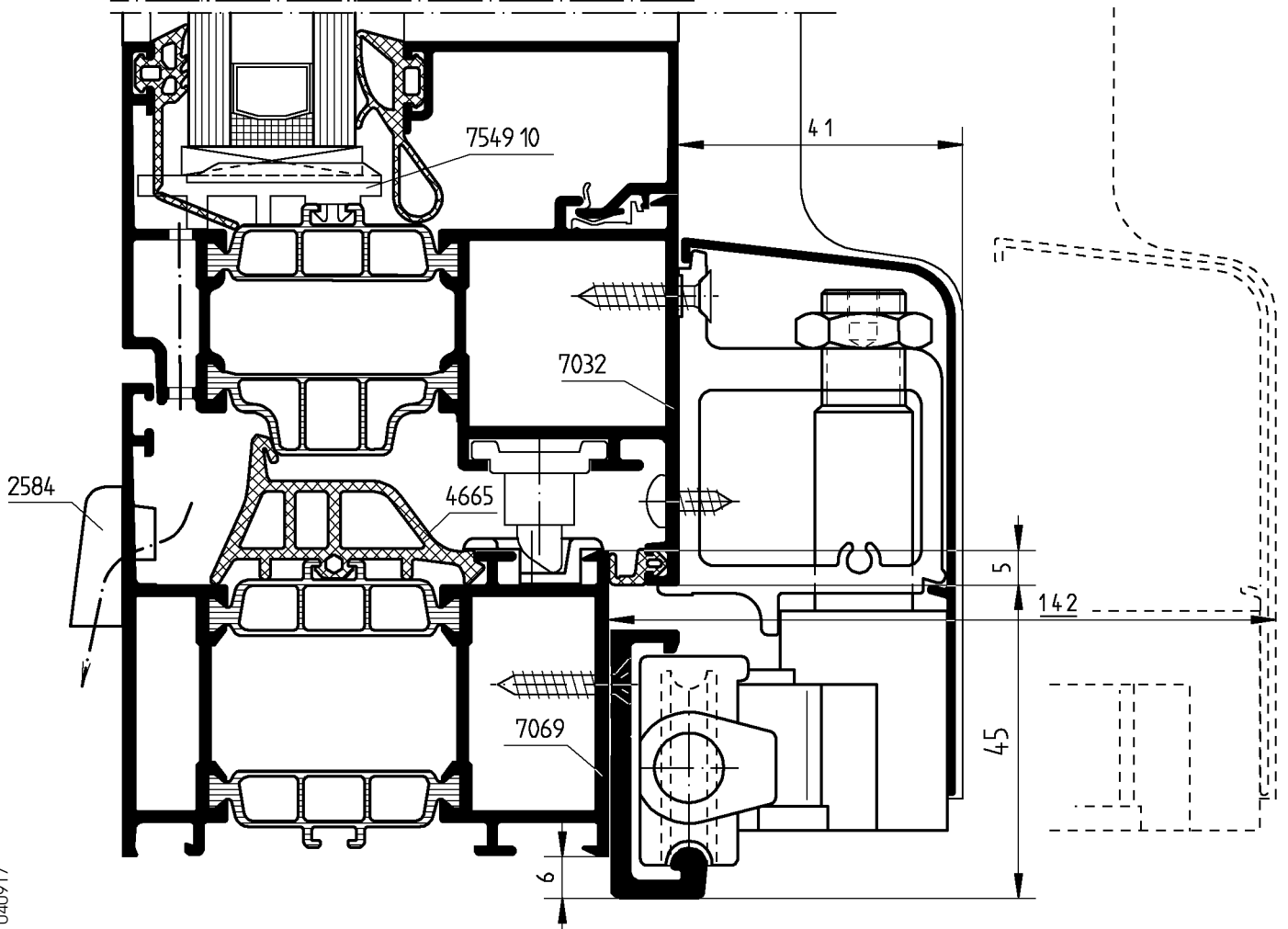


PSK 180 ZLK

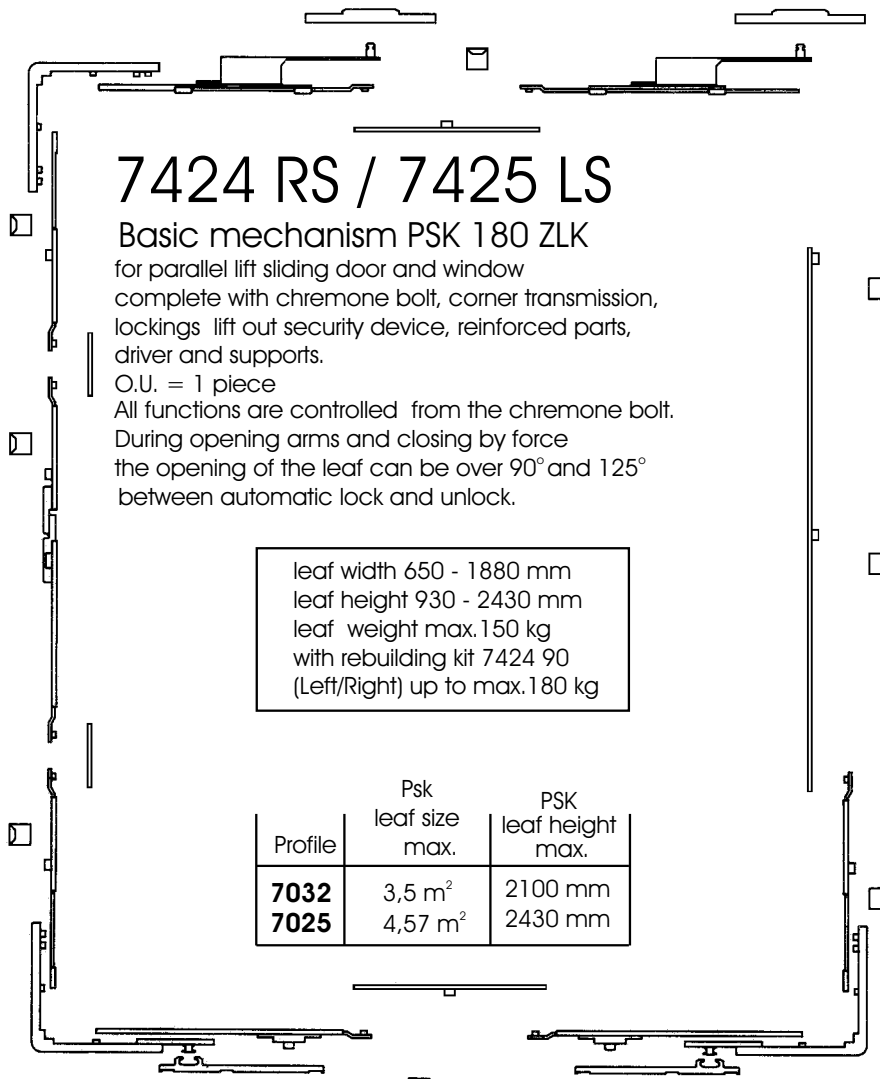
Parallel lift sliding mechanism up to 180 kg leaf weight, force actuated tilt free choice locking and unlocking arms, is activated with force in tilting arm.

PSK 150 S

Parallel lift sliding mechanism up to 150 kg leaf weight, upper sliding arm from central closing plate, removable down security arm automatic locking of the leaf with security arms.



040917



7424 RS / 7425 LS

Basic mechanism PSK 180 ZLK

for parallel lift sliding door and window
complete with chromone bolt, corner transmission,
lockings lift out security device, reinforced parts,
driver and supports.

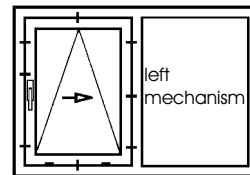
O.U. = 1 piece

All functions are controlled from the chromone bolt.

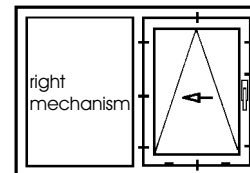
During opening arms and closing by force
the opening of the leaf can be over 90° and 125°
between automatic lock and unlock.

leaf width 650 - 1880 mm
leaf height 930 - 2430 mm
leaf weight max. 150 kg
with rebuilding kit 7424 90
(Left/Right) up to max. 180 kg

Profile	Psk leaf size max.	PSK leaf height max.
7032	3,5 m ²	2100 mm
7025	4,57 m ²	2430 mm

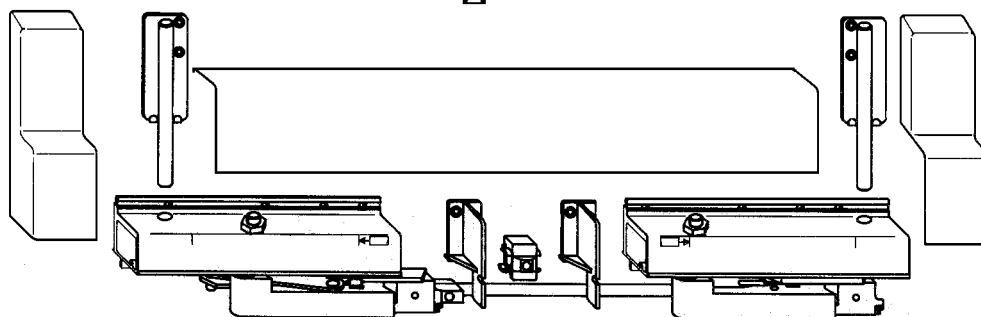


inside view



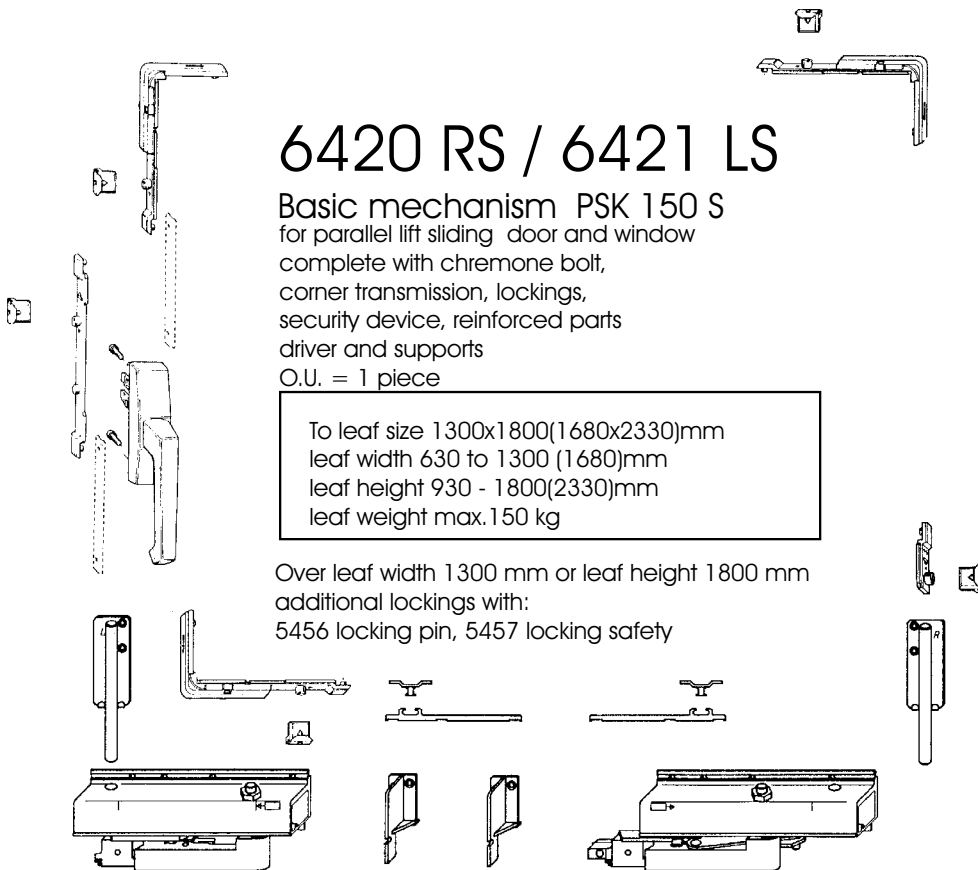
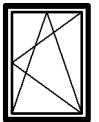
outside view

Example



- 7424** Basic mechanism PSK 180 ZLK right **7424 04** **7424 05**
like previous, but silver white black
- 7424 10** Basic mechanism PSK 180 ZLK right **7424 14** **7424 15**
Includes chromone bolt with lock
- 7424 90** Armament piece LS/RS PSK 180 ZLK for leaf weight up to 180 kg
O.U. = 1 piece

- 7425** Basic mechanism PSK 180 ZLK left **7425 04** **7425 05**
like previous, but silver white black
- 7425 10** Basic mechanism PSK 180 ZLK left **7425 14** **7425 15**
Includes chromone bolt with lock
- 7424 90** Armament piece LS/RS PSK 180 ZLK for leaf weight up to 180 kg
O.U. = 1 piece



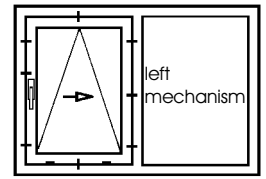
6420 RS / 6421 LS

Basic mechanism PSK 150 S

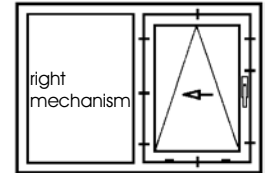
for parallel lift sliding door and window
complete with chremone bolt,
corner transmission, lockings,
security device, reinforced parts
driver and supports
O.U. = 1 piece

To leaf size 1300x1800(1680x2330)mm
leaf width 630 to 1300 (1680)mm
leaf height 930 - 1800(2330)mm
leaf weight max. 150 kg

Over leaf width 1300 mm or leaf height 1800 mm
additional lockings with:
5456 locking pin, 5457 locking safety



inside view



outside view

Example:
Ordering mechanism

Profile	PSK- leaf size max.	PSK leaf height max.
7032	3,5 m ²	2100 mm
7025	4,57 m ²	2430 mm

- | | | | |
|----------------|--|------------------------------|--------------------------|
| 6420 | Basic mechanism PSK 150 S right
like previous, but silver | 6420 04
white | 6420 07
bronze |
| 6420 10 | Basic mechanism PSK 150 S right
includes chremone bolt with lock | 6420 14 | 6420 17 |
| 6420 20 | Basic mechanism PSK 150 S right
with round shape chremone bolt | 6420 24 | 6420 27 |
| 6420 30 | Basic mechanism PSK 150 S right
includes round shape chremone bolt with lock | 6420 34 | 6420 37 |
| 6420 40 | Basic mechanism PSK 150 S right
with covered gearing transmission for chremone bolt with 7 mm square pin | | |
| 6420 80 | Basic mechanism PSK 150 S right
covered gearing transmission thorn 40mm,
inside and outside opening, double sided operation
for chremone bolt 6451 (flat form),
rosette and cylinder lock (see page 70/109). | Only for profile 7025 | |
| 6421 | Basic mechanism PSK 150 S left
like previous, but silver | 6421 04
white | 6421 07
bronze |
| 6421 10 | Basic mechanism PSK 150 S left
includes chremone bolt with lock | 6421 14 | 6421 17 |
| 6421 20 | Basic mechanism PSK 150 S left
with round shape chremone bolt | 6421 24 | 6421 27 |
| 6421 30 | Basic mechanism PSK 150 S left
includes round shape chremone bolt with lock | 6421 34 | 6421 37 |
| 6421 40 | Basic mechanism PSK 150 S left
with covered gearing transmission for chremone bolt with 7 mm square pin | | |
| 6421 80 | Basic mechanism PSK 150 S left
covered gearing transmission thorn 40mm,
inside and outside opening, double sided operation
for chremone bolt 6451 (flat form),
rosette and cylinder lock (see page 70/109). | Only for profile 7025 | |

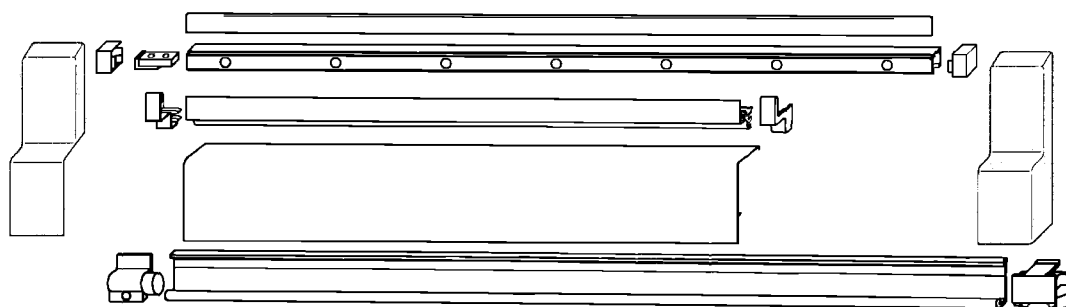


- 6422** Spread connection rod PSK 150 S
consists of sliding arm and catch rod for automatic locking of the leaf. Leaf width 630 mm up to 930 mm
O.U. = 1 piece
- 6422 10** Spread connection rod PSK 150 S
like previous, but for leaf width 931 up to 1280 mm
- 6422 20** Spread connection rod PSK 150 S
like previous, but for leaf width 1281 up to 1680 mm



- 6423** Rail kit PSK 180 ZLK / PSK 150 S
for leaf width 630 (PSK 180ZLK 650 mm) up to 930 mm and internal sash dimension up to 1920 mm, consist of lower slide rail, upper guide rail, nail support and visible profile in silver colour anodized. Also hinge with screws, joints and accessories.
O.U. = 1 set
- 6423 10** Rail kit PSK 180 ZLK / PSK 150 S
like previous, but for leaf width up to 1080 mm and internal sash dimension up to 2220 mm
- 6423 20** Rail kit PSK 180 ZLK / PSK 150 S
like previous, but for leaf width up to 1280 mm and internal sash dimension up to 2620 mm
- 6423 30** Rail kit PSK 180 ZLK / PSK 150 S
like previous, but for leaf width up to 1480 mm and internal sash dimension up to 3020 mm
- 6423 40** Rail kit PSK 180 ZLK / PSK 150 S
like previous, but for leaf width up to 1680 mm and internal sash dimension up to 3420 mm
- 6423 50** Rail kit **nur PSK 180 ZLK**
like previous, but for leaf width up to 1880 mm and internal sash dimension up to 3820 mm

- 6423 04** white, slide rail silver-coloured anodized
- 6423 07** dark-brown, slide rail dark bronze anodized
- 6423 14**
- 6423 17**
- 6423 24**
- 6423 27**
- 6423 34**
- 6423 37**
- 6423 44**
- 6423 47**
- 6423 54**
- 6423 57**



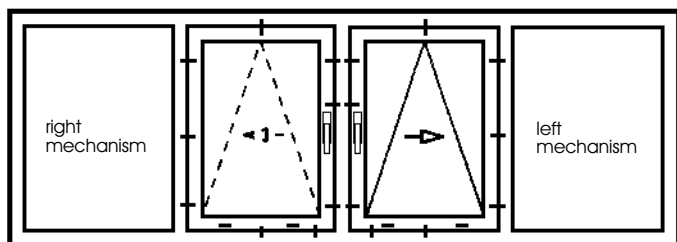
5456 Locking pin
From stainless steel
O.U. = 10 pieces



5457 Locking safety
Can be used left or right
O.U. = 10 pieces

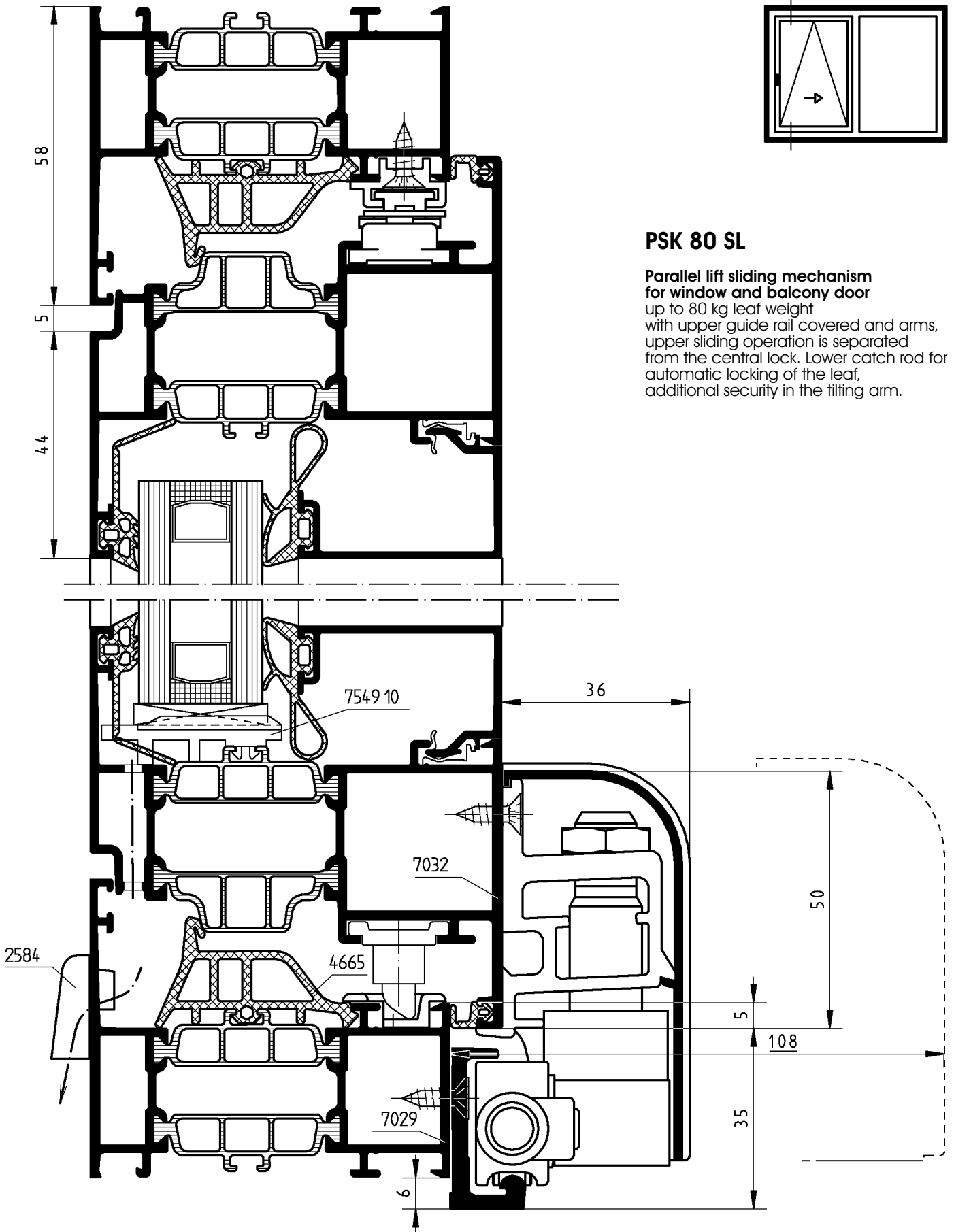
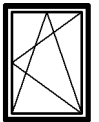


Inside view



Hint: PSK window/door

The leaf can open successive only for given order according the alignment of the profile
Otherwise remains closed.
In window every 1 additional locking open necessary (locking pin 5456, locking safety 5457)



PSK 80 SL

Parallel lift sliding mechanism for window and balcony door
up to 80 kg leaf weight
with upper guide rail covered and arms, upper sliding operation is separated from the central lock. Lower catch rod for automatic locking of the leaf, additional security in the tilting arm.



Guide rail

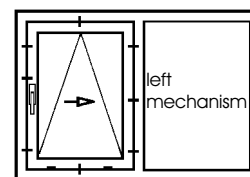


7426 RS / 7427 LS

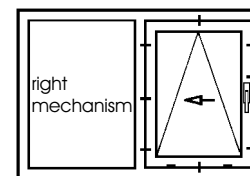
Basic mechanism PSK 80 SL

for parallel lift sliding window, balcony door, with covered guide rail, complete with chremone bolt, corner transmission, lift out security for tilt operation, locking support stand operation
O.U. = 1 piece

To leaf size 1280 x 2100 mm
leaf width 630 to 1280 mm
leaf height 930 - 2100 mm
leaf weight max.80 kg



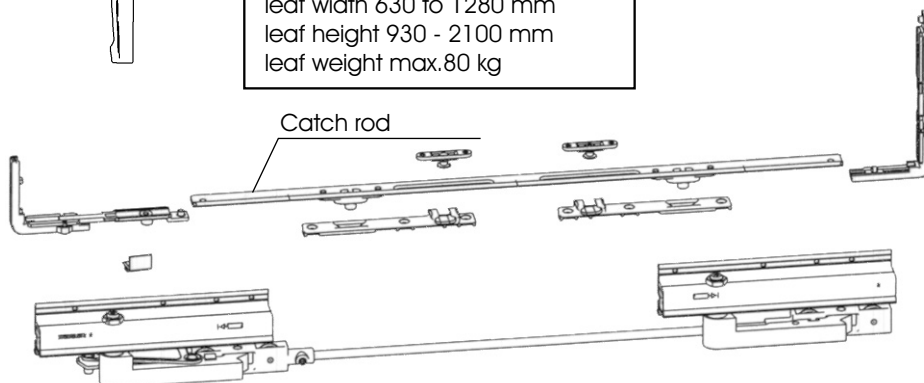
inside view



outside view

Example:
Ordering mechanism

Catch rod



Profile	PSK 80 SL leaf size max.	PSK 80 SL leaf height max.
7032	2,7 m ²	2100 mm
7025	2,7 m ²	2100 mm
7072	2,25 m ²	2100 mm

- | | | | |
|----------------|---|----------------|----------------|
| 7426 | Basic mechanism PSK 80 SL right
like previous, but silver | 7426 04 | 7426 07 |
| | | white | bronze |
| 7426 10 | Basic mechanism PSK 80 SL right
includes chremone bolt with lock | 7426 14 | 7426 17 |
| 7427 | Basic mechanism PSK 80 SL left
like previous, but silver | 7427 04 | 7427 07 |
| | | white | bronze |
| 7427 10 | Basic mechanism PSK 80 SL left
includes chremone bolt with lock | 7427 14 | 7427 17 |

7428 Catch rod PSK 80 SL
for automatic catching of the leaf, leaf width 630 mm up to 930 mm
O.U. = 1 piece

7428 10 Catch rod PSK 80 SL
like previous, but for leaf width 931 up to 1280 mm



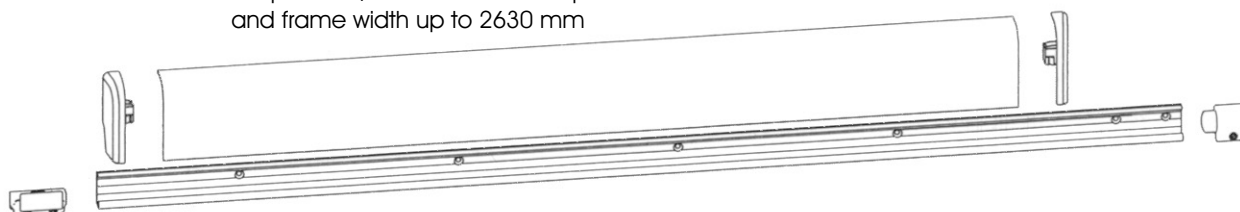
7429 Rail kit PSK 80 SL
for leaf width up to 930 mm and frame width up to 1930 mm, consist from lower sliding rail, upper guide rail, silver-coloured anodized, joints and accessories.
O.U. = 1 set

7429 04 white,
Sliding rail silver-colored anodized

7429 05 black

7429 10 Rail kit PSK 80 SL
like previous, but for leaf width up to 1280 mm and frame width up to 2630 mm

7429 14 **7429 15**



Adjustable corner joints

Profile	Chamber dimensions	Inside profile adjustable corner joint		Outside profile adjustable reinforced corner joint			
		code No:	Reinforced code No:	code No:	code No:	code No:	
Frame, mullion profiles	7028, 7034, 7090, 7091	15	7564		15	7565	
	7050, 7051	15	7564		7	7566	
	7029, 7031, 7033, 7061	21	7564 10		21	7565 10	
	7060	21	7564 10		21	7564 10	
	7069, 7036, 7030	31	7564 20		31	7565 20	
	7037, 7070	41	7564 30	7572	41	7565 30	7572 10
	7038, 7071	61	7564 40	7572	61	7565 40	7572 10
Window sash	7035, 7065	17	7567		11	7568	
	7032	27	7567 10		21	7568 10	
	7025	41	7567 30	7572 20	38	7568 30	7572 30
	7072	27	7569		7	7566 10	
Door frame	7012	41	7570 10	7572 40	41	7571 10	7572 50
	7021	44	7570	7572 40	38	7571	7572 50
Door sash	7002	44	7570	7572 40	38	7571	7572 50
	7003	44	7570 20	7572 60	38	7571	7572 50
	7003 10	44	7570 20	7572 60	38	7571	7572 50

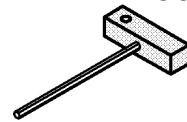
Reinforced pieces for corner joint with spire corners. O.U. = 2 pieces

3574 Clamping element

 for adjustable corner joint inside profile, SW 6
 O.U. = 100 pieces

2832 Two diameter drill

 6.8/15 mm with pivot for clamping element 3574
 O.U. = 1 piece

0855 Hexagon wrench key

 for clamping element 3574, SW 6
 O.U. = 1 piece

5500 Pin

 for adjustable corner joint for outside profile and optionally for inside profile
 O.U. = 100 pieces

4833 Drilling plate

 for adjustable corner joint frame 7030, 7033
 O.U. = 1 piece

4834 Drilling plate

like previous, but for frames 7028, 7029...

4835 Drilling plate

like previous, but for sashes 7035, 7032...

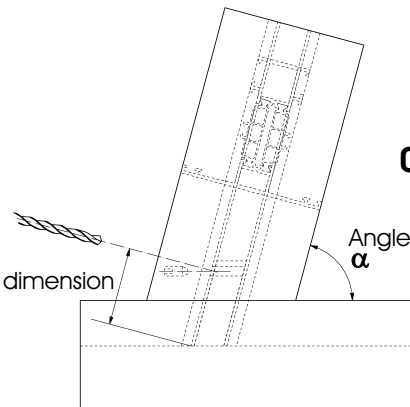
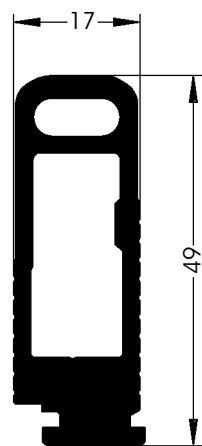
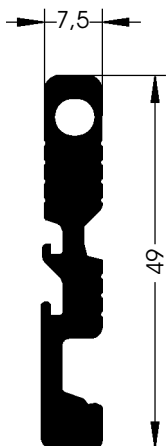
4289

T-joint for outside Profile chamber

4288 10

T-joint for inside Profile chamber

T-joint for beveled thrust in work site

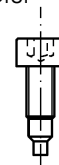


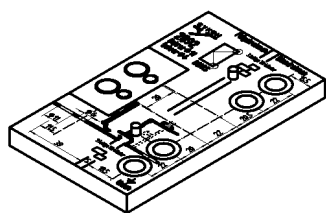
Dimension see the drawing catalogue

5500 Pin

O.U. = 100 pieces


0784 16 Screw

 Allen screw with pivot, M5 x 16
 O.U. = 100 pieces




2892
Drilling plate
for adjustable door hinge
two and three-side
Operation 2-D and 3-D:
0911, 0912, 0915

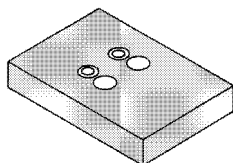
O.U. = 1 piece



3808
Hand pistol

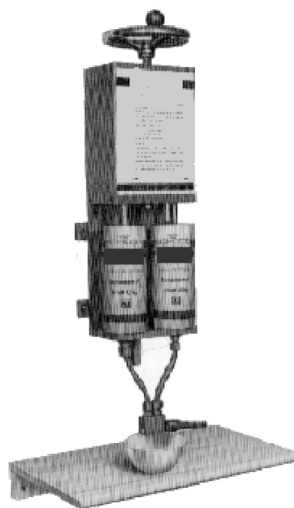
for metal adhesive
cartridge **0833**
Composition 1:1

O.U. = 1 piece



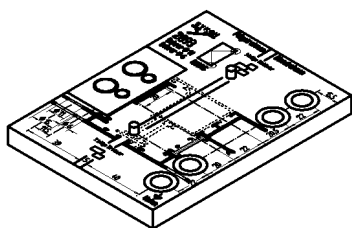
2892 10
Additional
drilling plate
For installing on
the old plate
For **3-D** hinge
and **2-D**

O.U. = 1 piece



3812
Portion machine
for metal adhesive
cartridge **0822**
Composition 1:1

O.U. = 1 piece



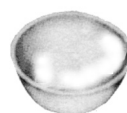
2893
Drilling plate
for adjustable hinge
two or three-parts
operation 2-D and 3-D:
0913, 0914

O.U. = 1 piece



2894
Two diameter
drill 11/15 mm
for adjustable hinge,
for opening outward
doors

O.U. = 1 piece



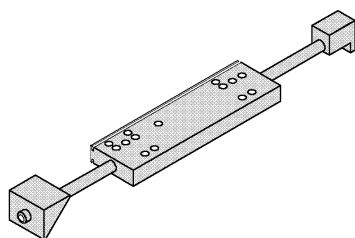
3812 10
Mixing cup
For metal adhesives **0802**, **0822**
and **0833**

O.U. = 10 pieces



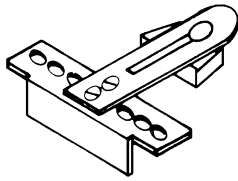
2896
Step drill
10,5/19 mm
for holes in the leaf
in opening inwards
panic doors

O.U. = 1 piece



4826
Drilling plate
for door hinges
7401, 7402

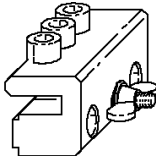
O.U. = 1 piece



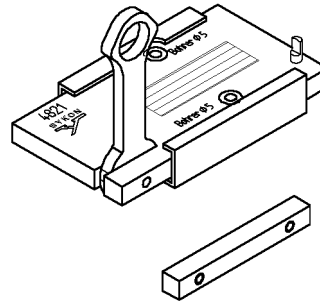
3825
Drilling plate
For **tilt and turn**
O.U. = 1 piece



4819
Prink tool
for **pin 5500**
for corner joint
and butt joint
O.U. = 1 piece

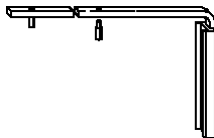


3884
Drilling plate
for covered
ROTO gearing
transmission
O.U. = 1 piece

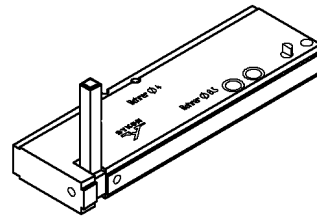


4821
Drilling plate
for pin corner joint
frame profiles
7030, 7033
O.U. = 1 piece

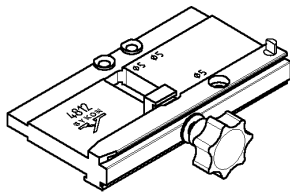
4821 11
Apostate
For **renovative** frame
Profile 7060



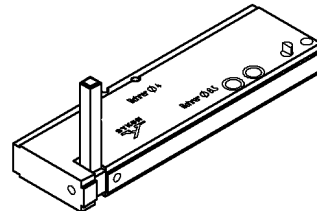
3885
Driver
for **arm, secondary arm**
O.U. = 1 piece



4822
Drilling plate
for corner joint with pin
door sash profile 7002
and **renovative door sash**
profile 7085
O.U. = 1 piece

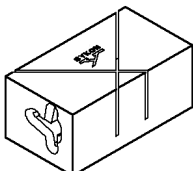


4812
Drilling plate
for **t-joint**
and **corner joint**
with pins, frame
O.U. = 1 piece

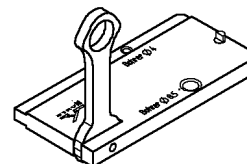


4823
Drilling plate
for corner joint with pin
door sash profile 7003
and **renovative door sash**
profile 7086
O.U. = 1 piece

4812 10
Drilling plate
for old house mullion profile 7084

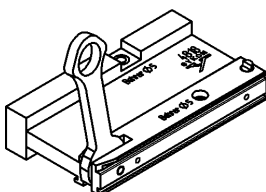


4813
Cutting tool for gasket
for **middle gasket 4665**
O.U. = 1 piece

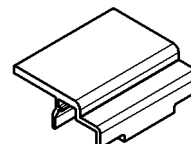


4824
Drilling plate
for T-joint
mullion profile 7004
O.U. = 1 piece

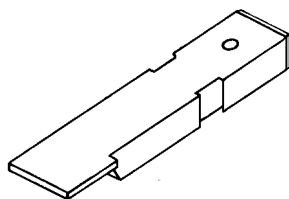
4824 10
Drilling plate
renovative mullion profile 7084



4818
Drilling plate
for corner joint with pin
Window sash
Profiles 7035, 7032, 7025
renovative window sash
Profile 7065
O.U. = 1 piece

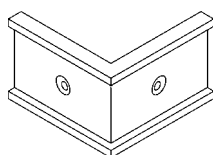


4825
Driver
for arm montage
in **hidden**
window mechanism
O.U. = 1 piece



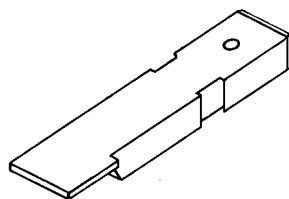
3880

Press stamp
for griping machine
PRESSTA 1000, 1800, 2000
and PV10.
For pressing the press
joints in the outside
chamber of the profile:
profiles 7002, 7003
O.U. = 1 pair



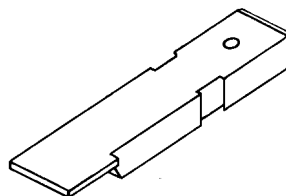
4815 30
Wedged joint

For standard bearing
of the griping machine
PRESSTA 1000, 1800, 2000,
PV10.....
Door sashes and frames
O.U. = 1 piece



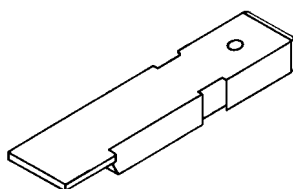
3881

Press stamp
for griping machine
PRESSTA 1000, 1800, 2000
and PV10.
For pressing the press
joints in the outside
chamber of the
profiles 7072
O.U. = 1 pair



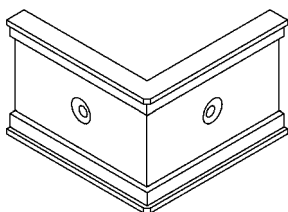
4816
Press stamp

For standard bearing
of the griping machine
PRESSTA 1000, 1800, 2000,
Pv10.....
Window frame 7050
O.U. = 1 pair



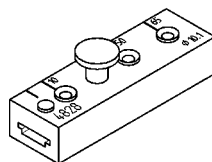
4814

Press stamp
for griping machine
PRESSTA 1000, 1800, 2000
and PV10.
For pressing the press
joints in the outside
chamber of the profile:
Window sashes profile
7025, 7032, 7035 and 7065
O.U. = 1 pair



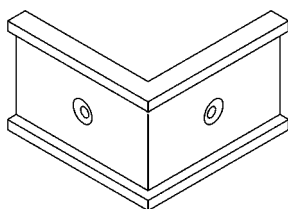
4815
Wedged joint

For standard bearing
of the griping machine
PRESSTA 1000, 1800, 2000,
PV10.....
Frame and sashes
O.U. = 1 piece



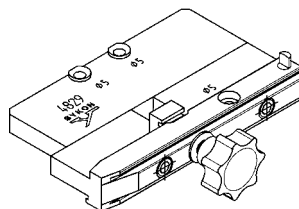
4828
Drilling plate

for 10.1 mm bore
for 6127
mechanism in Alu 400 i
O.U. = 1 piece



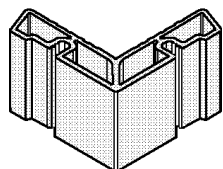
4815 10
Wedged joint

For standard bearing
of the griping machine
PRESSTA 1000, 1800, 2000,
Pv10.....
renovative sash 7065
O.U. = 1 piece



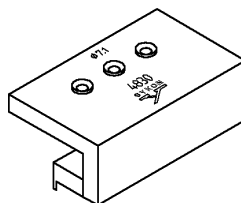
4829
Drilling fixture
for T-joint
mullion profile 7020

O.U. = 1 piece



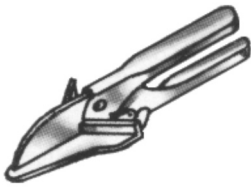
4815 20
Wedged joint

For standard bearing
of the griping machine
PRESSTA 1000, 1800, 2000,
PV10.....
For profile 7072
O.U. = 1 piece



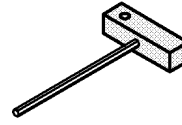
4830
Drilling plate
for covered
gearing transmission **5463**
with big thorn
(installation with
screw nut 0777)

O.U. = 1 piece



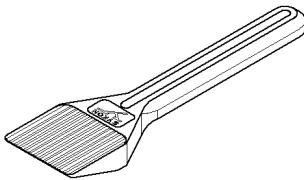
2883
Gasket scissor
with aiming position
for straight cut

O.U. = 1 piece

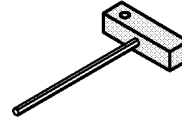


0862
Hexagon wrench
key SW 2
for adjustment
of the lock

O.U. = 1 piece

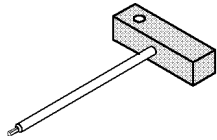


3890
Block lever
of plastic
O.U. = 1 piece



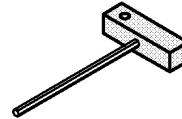
0853
Hexagon wrench
key SW 2.5
for wedged
Window mechanism

O.U. = 1 piece

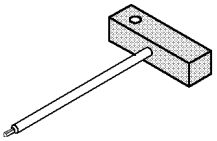


0864
Torque screw driver
with plastic handle
TORQUE size: TX 20
self tapping screw 4,2

O.U. = 1 piece

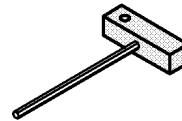


0863
Hexagon wrench
key SW 3
for adjustment screws
Adjustable door hinges
O.U. = 1 piece



0868
Torque screw driver
with plastic handle
TORQUE size: TX 30
for bolt M 6
(door hinge 7401, 7402)

O.U. = 1 piece

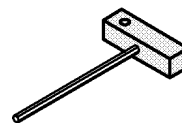


0858
Hexagon wrench
key SW 4
for eccentric adjustment
in window mechanism

O.U. = 1 piece

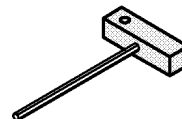
0883 01
Form miller cutting tool
for the T-joint milling 30°
in old house doors and windows.
Hm-200 x 20 x 40 mm, Z 12
for mechanic feeder,
applicable 0883

O.U. = 1 piece



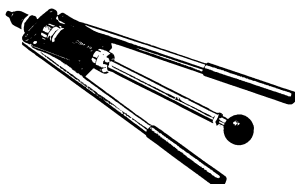
0859
Hexagon wrench
key SW 5
for attachment screws
in adjustable door hinges

O.U. = 1 piece



0855
Hexagon wrench
key SW 6
for clamping element 3574

O.U. = 1 piece



0888
Lever pliers
for screw nut,
Regulator M6 and
screw prick tool M6

O.U. = 1 piece

0888 01
Regulator M5

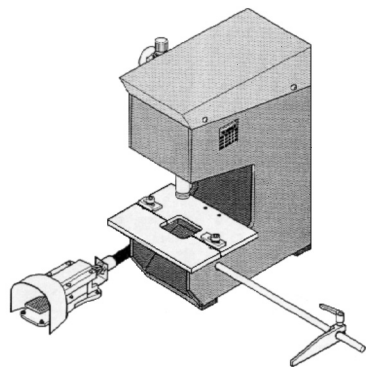
for lever pliers 0888

O.U. = 1 piece

0888 02
Screw prick tool M5

for lever pliers 0888

O.U. = 1 piece

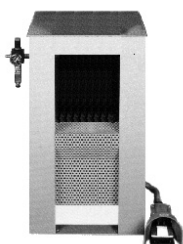


3821 10

Punching tool

Hydro-pneumatic complete with maintenance unit and foot valve
air consumption 3,3 l
Size of 200 x 500 x 360 mm
appropriate for
Punching tools 3851, 3855, 4820

O.U. = 1 piece

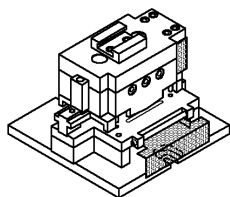


3821 20

Machine station

for pouncing tool 3821 10

O.U. = 1 piece



3851

Multi-function punching tool

for action slot 28x8/11,5 mm
frames and mullion profiles,
for chremone bolt
channel opening,
4327
Cutting and punching

O.U. = 1 piece

3855

Punching tool

for action slot 28x8/11,5 mm
frames and mullion profiles

O.U. = 1 piece

4836

Punching tool

for bore 10,1mm 6127
for window mechanism Alu 400 i

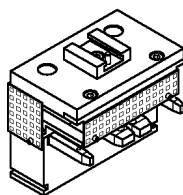
O.U. = 1 piece

3855 10

Punching tool

for action slot 28x8/11,5 mm
frames and mullion profiles
Fixed window

O.U. = 1 piece



4820

Punching tool

for **pin hole in T-joints**
Frames 7028, 7029...
Mullion profiles 7034, 7031, 7036, 7037, 7038
7039, 7040, 7041 and 7042.
Base profile 7004,
renovative mullion profile 7061 *
pin holes for corner joints
Frames 7029, 7069, 7070, 7071,
Mullion profiles 7031
renovative frames 7079 *

O.U. = 1 piece

* The tools are stored from the constructor.



Lens screws
DIN 7981-ST stainless steel
O.U. = 100 pieces

Code Nr.	Description
0752 38	3.5 x 38 *
0753 09	3.9 x 9.5
0753 13	3.9 x 13
0753 16	3.9 x 16
0753 22	3.9 x 22
0758 22	4.2 x 22
0730 09	4.8 x 9.5 - F
0730 16	4.8 x 16
0730 22	4.8 x 22
0730 32	4.8 x 32
0730 38	4.8 x 38
0730 50	4.8 x 50
0730 55	4.8 x 55

* Head shape of screw 2.9

0731 19	5.5 x 19 Torx TX 25
0731 45	5.5 x 45 Torx TX 25



Lens screw
DIN 7983-ST stainless steel
O.U. = 100 pieces

Code Nr.	Description
0759 19	4.2 x 19
0759 22	4.2 x 22
0764 16	6.3 x 16
0764 32	6.3 x 32



Sink screw
DIN 965 stainless steel
O.U. = 100 pieces

Code Nr.	Description
0728 08	M 4 x 8
0728 12	M 4 x 12
0735 10	M 5 x 10
0735 12	M 5 x 12
0735 14	M 5 x 14
0735 20	M 5 x 20
0735 25	M 5 x 25



Cylinder Allen screw
DIN 6912 stainless steel
O.U. = 100 pieces

Code Nr.	Description
0784 20	M 5 x 20
0797 20	M 6 x 20
0798 25	M 8 x 25



Self tapping screws
DIN 7982-ST stainless steel
O.U. = 100 pieces

Code Nr.	Description
0740 13	3.5 x 13
0740 16	3.5 x 16
0740 38	3.5 x 38
0741 13	3.9 x 13
0741 22	3.9 x 22
0741 38	3.9 x 38
0741 45	3.9 x 45
0744 13	4.2 x 13
0744 16	4.2 x 16
0744 19	4.2 x 19
0744 25	4.2 x 25
0744 32	4.2 x 32
0745 16	4.8 x 16
0745 22	4.8 x 22
0745 32	4.8 x 32
0745 38	4.8 x 38
0745 45	4.8 x 45
0745 60	4.8 x 60
0745 70	4.8 x 70
0745 80	4.8 x 80



Self drilling screw
sink head DIN 7504 stainless
steel O.U. = 100 pieces

Code Nr.	Description
0701 13	4.2 x 13
0701 25	4.2 x 25



Self tapping screws, with Torx,
similar DIN 7982-ST stainless steel
O.U. = 100 pieces

Code Nr.	Description
0703 13	3.9 x 13
0703 22	3.9 x 22
0703 32	3.9 x 32
0704 13	4.2 x 13
0704 19	4.2 x 19
0704 22	4.2 x 22
0704 25	4.2 x 25
0704 32	4.2 x 32
0704 38	4.2 x 38
0704 45	4.2 x 45



Screw and synthetic Cap
stainless steel
O.U. = 100 pieces

Code Nr.	Description
----------	-------------

Synth. Cap white

0768 04	3.9 x 13
0770 04	3.9 x 19
0769 04	3.9 x 25
0796 04	3.9 x 45

Synth. Cap black

0768 05	3.9 x 13
0770 05	3.9 x 19
0769 05	3.9 x 25
0796 05	3.9 x 45



Lens-Sink screw and
tip stainless steel
O.U. = 100 pieces

Code Nr.	Description
0733	M 5 x 14

Sink screw
self threading

0788	M 5 x 14
------	----------



Hexagon nut
DIN 934 stainless steel
O.U. = 100 pieces

Code Nr.	Description
0751	M 5



Draw in nut point
Steel cadmied, O.U. = 100 pieces

Code Nr.	Description
0777	M 5 2-3 mm
0777 10	M 5 3-5.5 mm
0778	M 6 2-3 mm



Washer DIN 125, Form B
Stainless steel
O.U. = 100 pieces

Code Nr.	Description
0793	6.4
0795	8.4



from rivet
on aluminium O.U. = 100 pieces

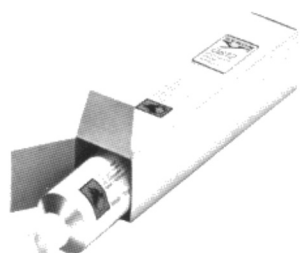
Code Nr.	Description
0771	∅ 3 x 5



0804
Glue for gasket
Content 20 g
O.U. = 1 piece



0808
Anodized cleaner
For cleaning and care
of anodized profiles
Contents 100 ml



0812
Glue for gasket in tube
Tube content 170 gr
O.U. = 1 piece



0813
Slot cleaner
for cleaning
anodized profiles
O.U. = 1 piece



0822
Glue for metals
for painted, unpainted
and anodized profiles, hardening out
from two-component.
Placement with **3812**,
3812 10
O.U. = 2 cartridges every one 1500 g

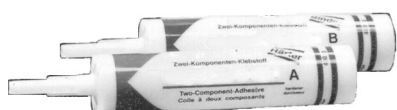


0823
Glue for screws

Quick hardened
PE bottle with 10 ml contents
O.U. = 1 piece



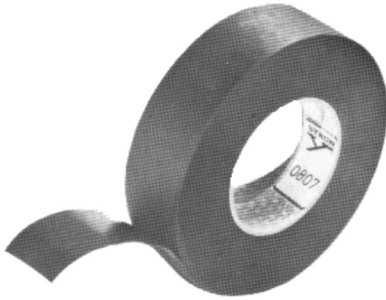
0831
Intensive cleaner
for painted, unpainted
and anodized profiles, easy cleaning
from natural lemon peel
Content 10lt
O.U. = 1 piece



0833
Glue for metals
for painted, unpainted
and anodized profiles, hardening out
from two-component
Placement with **3808**,
3812 10
O.U. = 2 cartridges every one 400 gr (310 ml)



0834
Paint for metal glue
for metal glue
0822, 0832 and 0833
PE bottle with 50 ml contents:
0834 04 colour white,
0834 05 colour black
(0834 01 colour blue, 0834 02 red,
0834 03 yellow on request available)
O.U. = 1 piece



0807
Protection tape
for protection of the profile's surface
Width 50 mm, length 100 m
O.U. = 1 piece

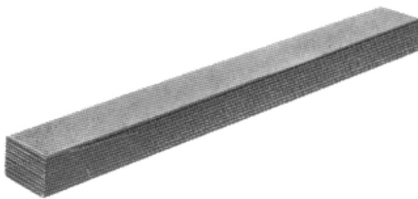


0818 04
Marker
for corrections of
scratches on surfaces
Colour: white
O.U. = 1 piece

0818 06
Marker
like previous, but Ev1
O.U. = 1 piece

0818 07
Marker
like previous, but dark bronze
O.U. = 1 piece

0818 08
Marker
like previous, but in RAL colour by choice
O.U. = 1 piece

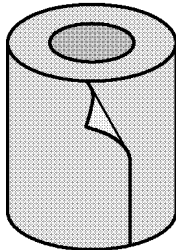


0809
Package material
self adhesive, in strip s
1000 x 75 x 2 mm
O.U. = 10 pieces



0550 04
Sealing plug
from plastic white
for ø hole 10 mm
O.U. = 100 pieces

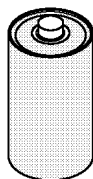
0550 05 like previous, but black



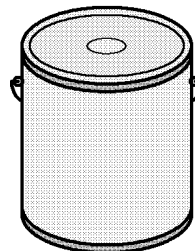
0824
Building sealing foil
Material EPDM, width 250 mm,
Thickness 1 mm, role length 20 m,
Color:black
O.U. = 1 piece

0824 10
Building sealing foil
like previous, but 300 mm width
O.U. = 1 piece

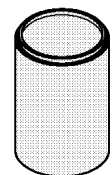
0824 20
Building sealing foil
like previous, but 500 mm width
O.U. = 1 piece



0825
Cleaner
for pretreatment of the contact surface,
also as dilutor of adhesive 0826,
Bottle contents 1 litre
O.U. = 1 piece



0826
Adhesive
In order to glue the building
sealing foil
0824 in dry and without
just surfaces
Contents 4,7 kg
O.U. = 1 piece



0826 10
Adhesive
like previous, but
contents 0,8 kg
O.U. = 1 piece



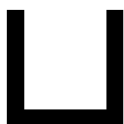
Code No	Dimensions
0150	20 / 2 mm
0151	15 / 3 mm
0152	20 / 6 mm
0153	30 / 2 mm
0154	30 / 5 mm
0155	40 / 2 mm
0156	40 / 5 mm
0159	50 / 3 mm



Code No	Dimensions
0164	15 / 15 / 2 mm
0166	20 / 20 / 3 mm
0168	25 / 25 / 3 mm
0169	30 / 30 / 2 mm
0170	30 / 30 / 3 mm
0171	40 / 40 / 3 mm
0172	50 / 50 / 3 mm
0173	50 / 50 / 4 mm



Code No	Dimensions
0174	15 / 10 / 2 mm
0175	20 / 10 / 2 mm
0177	30 / 15 / 2 mm
0178	30 / 20 / 2 mm
0179	40 / 20 / 2 mm
0180	50 / 20 / 2 mm
0181	60 / 30 / 2 mm



Code No	Dimensions
0182	20 / 20 / 20 / 2 mm
0183	20 / 30 / 20 / 2 mm
0184	30 / 30 / 30 / 2 mm
0185	20 / 40 / 20 / 2 mm



Code No	Dimensions
0196	30 / 30 / 2 mm
0197	35 / 35 / 2 mm
0198	40 / 40 / 2 mm
0199	50 / 50 / 2 mm



Code No	Dimensions
0186	40 / 20 / 2 mm
0187	50 / 30 / 2 mm
0188	60 / 40 / 2 mm
0189	80 / 40 / 2 mm
0193	50 / 25 / 2 mm

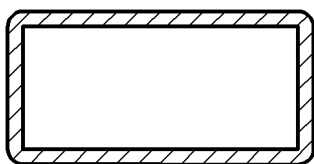
aluminum fixedness
Length 6 m



Code No	Dimensions
0160	∅ 10 mm

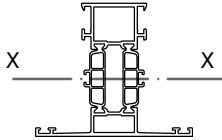
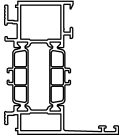
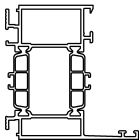
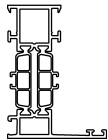
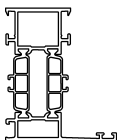
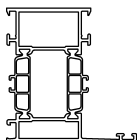
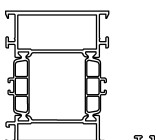
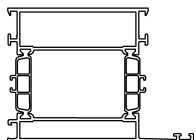
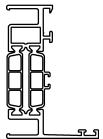
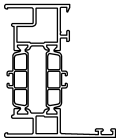
Standard profile = AlMgSi0.5 F22

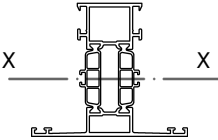
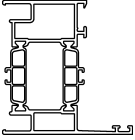
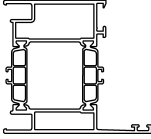
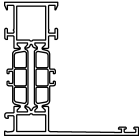
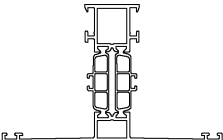
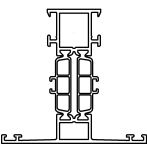
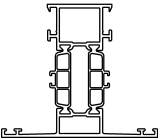
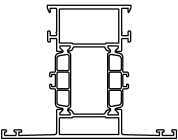
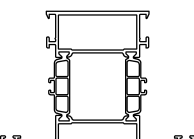
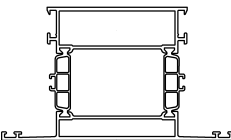
Steel tube type hot dip galvanized

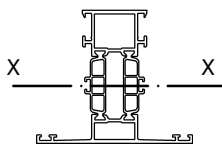
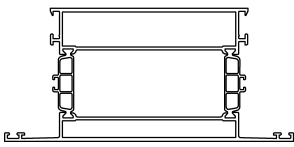
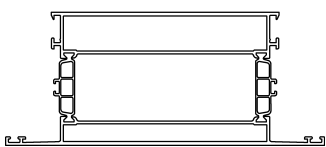
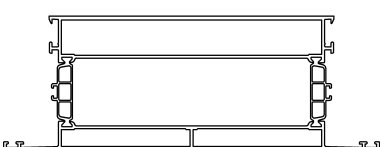
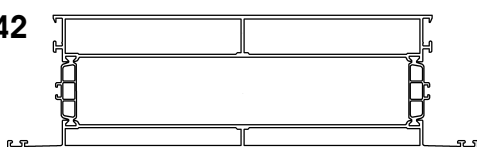
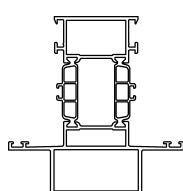
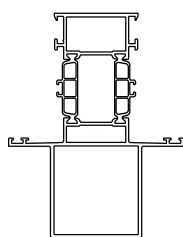
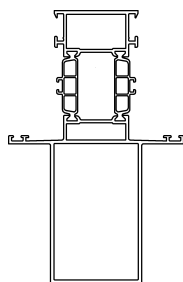


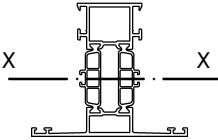
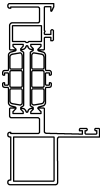
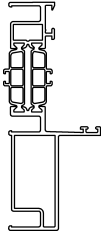
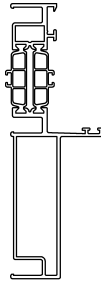
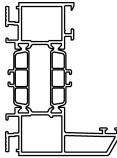
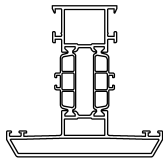
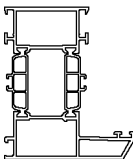
The steel brass are in 6 m available

Code No	Dimensions
0201	20 / 20 / 2 mm
0202	40 / 20 / 2 mm
0203	90 / 20 / 2 mm
0206	30 / 30 / 2 mm
0207	60 / 30 / 2 mm
0210	20 / 34 / 2 mm
0211	34 / 34 / 2 mm
0212	55 / 34 / 2 mm
0213	50 / 35 / 2 mm
0215	40 / 40 / 2 mm
0216	60 / 40 / 2 mm
0217	80 / 40 / 2 mm

Profile-Nr.		$I_{x id}$ (cm ⁴) according IfBt guideline				I_y (cm ⁴)
		Opening L (cm)				
		over 200	over 250	over 300	over 400	
7033		22.6	25.3	27.1	29.1	9.3
7030		25.5	28.8	31.1	33.8	15.8
7028		20.7	22.8	24.3	25.9	5.8
7029		22.5	25.1	26.8	28.8	8.4
7069		25.4	28.7	30.9	33.4	14.4
7070		28.1	31.9	34.7	37.9	22.8
7071		32.8	38.0	41.9	46.6	48.4
7056						
7057		22.6	25.2	26.9	28.9	7.3

Profile-Nr		$I_{x id}$ (cm ⁴) according IfBt guideline				I_y (cm ⁴)
		Opening L (cm)				
		over 200	over 250	over 300	over 400	
7058						
7059						
7090		22.1	24.6	26.3	28.1	12.5
7091		25.0	28.6	30.1	32.5	26.9
7034		22.8	25.4	27.1	29.1	9.9
7031		24.6	27.7	29.7	32.0	13.3
7036		27.4	31.1	33.7	36.7	20.8
7037		29.9	34.3	37.4	41.1	30.9
7038		34.5	40.2	44.5	49.7	60.5

Profile-Nr		$I_{x id}$ (cm ⁴) according IfBt guideline Opening L (cm)				I_y (cm ⁴)
		over 200	over 250	over 300	over 400	
7039		40.1	47.9	53.8	61.5	133
7040		42.8	51.5	58.4	67.4	189
7041		48.4	55.2	68.6	81.5	345
7042		53.8	67.2	78.7	95.8	711
7073		50.7	57.7	62.7	68.8	27.6
7074		87.3	97.9	105.5	114.8	27.9
7075		125	142.0	154.0	169.0	41.1

Profile-Nr		$I_{x id}$ (cm ⁴) according IfBt guideline				I_y (cm ⁴)
		Opening L (cm)				
		over 200	over 250	over 300	over 400	
7045						
7046		49.3	55.5	60	64.7	6.7
7047		80.1	90.9	98.5	107.3	7.7
7060		31.4	35.7	38.5	41.9	14.3
7061		32.9	37.3	40.4	44.1	22.6
7079		34.3	39.0	42.3	46.2	21.1

Order number	Catalogue page	Order number	Catalogue page	Order number	Catalogue page	Order number	Catalogue page
		0383	70/080	0752	70/149	2604	70/022
0101	70/090	0394	70/117	0753	70/149	2608	70/090
0150	70/152	0395	70/117	0758	70/149	2616	70/009
0151	70/152	0396	70/117	0759	70/149	2617	70/022
0152	70/152	0397	70/117	0764	70/149	2629	70/090
0153	70/152			0768	70/149	2648	70/019
0154	70/152	0400	70/073	0769	70/149		
0155	70/152	0401	70/073	0770	70/149	2744	70/022
0156	70/152	0404	70/073	0771	70/149	2773	70/022
0159	70/152	0407	70/074	0775	70/074	2779	70/022
0160	70/152	0412	70/073	0777	70/149	2790	70/022
0164	70/152	0413	70/073	0778	70/149		
0166	70/152	0414	70/073	0780	70/074	2830	70/136
0168	70/152	0418	70/073	0784	70/149	2832	70/143
0169	70/152	0419	70/062	0784 16	70/143	2883	70/147
0170	70/152	0420	70/062	0788	70/149	2892	70/144
0171	70/152	0431	70/136	0793	70/149	2893	70/144
0172	70/152	0432	70/136	0795	70/149	2894	70/144
0173	70/152	0441	70/136	0796	70/149	2896	70/144
0174	70/152	0442	70/136	0797	70/149		
0175	70/152	0451	70/073	0798	70/149	3139	70/020
0177	70/152	0452	70/073				
0178	70/152	0453	70/127	0804	70/150	3371	70/019
0179	70/152	0454	70/127	0807	70/151	3372	70/019
0180	70/152	0455	70/127	0808	70/150		
0181	70/152	0460	70/071	0809	70/151	3574	70/143
0182	70/152	0461	70/071	0812	70/150	3584 10	70/019
0183	70/152	0462	70/069	0813	70/150		
0184	70/152	0465	70/080	0818	70/151	3616	70/009
0185	70/152	0466	70/078	0822	70/150	3657	70/055
0186	70/152	0466 10	70/078	0823	70/150	3658	70/051
0187	70/152	0466 30	70/078	0824	70/151	3659	70/051
0188	70/152	0466 40	70/065	0825	70/151	3663	70/088
0189	70/152	0467	70/078	0826	70/151	3696	70/093
0193	70/152	0468	70/078	0831	70/150		
0196	70/152	0471	70/074	0833	70/150	3808	70/144
0197	70/152	0473	70/074	0834	70/150	3812	70/144
0198	70/152	0474	70/072	0853	70/147	3812 10	70/144
0199	70/152	0479	70/072	0855	70/147	3821 10	70/148
		0481	70/074	0858	70/147	3821 20	70/148
0201	70/152	0485	70/074	0859	70/147	3825	70/145
0202	70/152	0488	70/072	0862	70/147	3851	70/148
0203	70/152	0489	70/072	0863	70/147	3855	70/148
0206	70/152	0490	70/072	0864	70/147	3880	70/146
0207	70/152	0491	70/072	0868	70/147	3881	70/146
0210	70/152	0491 30	70/072	0883 01	70/147	3884	70/145
0211	70/152	0491 40	70/071	0888	70/147	3885	70/145
0212	70/152	0499	70/072			3890	70/147
0213	70/020			0902	70/127		
0215	70/152	0501	70/075	0911	70/058	4156	70/022
0216	70/152	0502	70/075	0911 20	70/062	4167	70/020
0217	70/152	0503	70/075	0911 50	70/063	4178	70/022
0223	70/062	0509	70/074	0913	70/059		
0251	70/075	0511	70/075	0915	70/060	4288 10	70/143
0252	70/075	0512	70/075	0921	70/061	4289	70/143
0253	70/075	0513	70/075	0930	70/061		
0306	70/136	0515	70/062	0931	70/061	4327	70/087
0307	70/136	0516	70/075	0935	70/057		
0310	70/070	0517	70/075	0936	70/057	4550	70/025
0311	70/070	0518	70/075	0937	70/057	4551	70/025
0312	70/070	0550	70/151	0942	70/061	4559	70/059
0313	70/070					4564	70/021
0328	70/070	0601	70/090	1120	70/090	4590	70/071
0330	70/079	0604	70/050				
0331	70/079			1551	70/089		
0332	70/079	0701	70/149			4605 10	70/055
0338 20	70/109	0703	70/149	2138	70/022	4610 10	70/051
0349	70/079	0704	70/149	2139	70/022	4623	70/051
0351	70/079	0728	70/149			4624	70/021
0363	70/079	0730	70/149	2303	70/090	4627	70/032
0364	70/079	0733	70/149	2304	70/022	4629 11	70/007
0371	70/080	0735	70/149	2314	70/022	4629 19	70/003
0372	70/080	0740	70/149			4629 25	70/003
0373	70/080	0741	70/149	2437	70/107	4629 28	70/002
0380	70/080	0744	70/149			4629 35	70/004
0381	70/080	0745	70/149	2550	70/022	4629 38	70/002
0382	70/080	0751	70/149	2552	70/090	4629 41	70/008
				2584	70/021	4629 45	70/004

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4629 65	70/004	6103	70/051	6449	70/102	7083	70/032
4629 77	70/040	6104	70/051	6450 10	70/109	7090	70/093
4629 91	70/008	6105	70/051	6451 10	70/109	7091	70/095
4629 95	70/007	6120	70/051	6452 10	70/109		
4633	70/050	6121	70/051	6464 10	70/109	7401	70/056
4634	70/050	6122	70/040	6467	70/082	7401 10	70/056
4635	70/050	6122 10	70/040	6467 11	70/082	7402 10	70/056
4643	70/023	6126	70/037	6470	70/134	7403	70/076
4644	70/023	6127	70/087	6471	70/134	7404	70/076
4652	70/023	6131	70/050	6472	70/134	7406	70/077
4653	70/023	6132	70/050	6473	70/134	7407	70/077
4654	70/023	6133	70/051	6474	70/134	7408	70/077
4656	70/050	6134	70/051			7409	70/077
4662 10	70/093	6135	70/050	6563	70/023	7410	70/078
4665	70/088	6139	70/055	6564	70/023	7411	70/078
4665 10	70/088	6141	70/016	6565	70/023	7412	70/064
4666	70/051	6142	70/017	6566	70/023	7413	70/064
4667	70/050	6143 10	70/017	6567	70/023	7414	70/066
4679	70/093	6143 20	70/017	6568	70/023	7415	70/066
4697	70/093	6143 30	70/017	6569	70/023	7516	70/066
4698	70/093	6144	70/089	6570	70/023	7417	70/064
		6145	70/090	6571	70/023	7418	70/064
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4812	70/145	6147 10	70/089	6599 10	70/090	7420	70/064
4813	70/145	6148	70/009			7421	70/065
4814	70/146	6148 10	70/022	6800	70/055	7422	70/067
4815	70/146	6160	70/095			7423	70/138
4815 10	70/146	6161	70/018	7002	70/039	7424	70/138
4815 20	70/146	6162	70/010	7003	70/039	7425	70/142
4815 30	70/146	6163	70/024	7003 10	70/039	7426	70/142
4816	70/146	6164	70/093	7004	70/040	7427	70/142
4818	70/145	6165	70/024	7007	70/036	7428	70/142
4819	70/145	6167	70/024	7008	70/036	7429	70/142
4820	70/148	6168	70/024	7012	70/037	7439	70/111
4821	70/145	6169	70/024	7014	70/050	7440	70/112
4822	70/145	6170	70/024	7016	70/040	7441	70/113
4823	70/145	6171	70/024	7020	70/088	7442	70/115
4824	70/145	6172	70/024	7021	70/038	7444	70/116
4825	70/145	6173	70/024	7024	70/123	7446	70/114
4826	70/144	6174	70/024	7025	70/087	7446 20	70/115
4828	70/146	6175	70/024	7026	70/010	7446 30	70/115
4829	70/146	6176	70/024	7028	70/003	7449	70/114
4830	70/146	6177	70/024	7029	70/003	7449 10	70/114
4831	70/117	6178	70/024	7030	70/002	7450 50	70/128
4833	70/143	6180	70/123	7031	70/005	7451 50	70/128
4834	70/143	6181	70/123	7032	70/087	7452 50	70/128
4835	70/143	6182	70/123	7033	70/002	7453 50	70/128
4836	70/148	6183	70/123	7034	70/005	7454 50	70/128
		6184	70/123	7035	70/087	7455 50	70/128
5163	70/024	6185	70/123	7036	70/006	7456 50	70/129
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5454	70/102	6190	70/025	7039	70/007	7459 50	70/129
5455	70/103	6192	70/025	7040	70/007	7460 50	70/129
5456	70/102	6193	70/025	7041	70/008	7461 50	70/129
5456 30	70/125	6194	70/025	7042	70/008	7462 50	70/130
5456 40	70/111	6195	70/025	7046	70/013	7463 50	70/130
5456 50	70/126	6196	70/025	7047	70/014	7464 50	70/131
5457	70/103	6197	70/025	7049	70/018	7465 50	70/131
5457 10	70/123	6198	70/025	7050	70/093	7466 50	70/132
5457 20	70/124	6199	70/025	7051	70/010	7467	70/133
5458	70/103			7057	70/009	7468	70/133
5459	70/103	6414 20	70/082	7060	70/097	7469	70/130
5463	70/103	6417 20	70/071	7061	70/097	7470	70/124
5465	70/103	6420	70/139	7065	70/097	7471	70/125
5466	70/107	6421	70/139	7069	70/004	7472	70/126
5466 10	70/116	6422	70/140	7070	70/004		
5468	70/107	6423	70/140	7071	70/004	7501	70/003
5469	70/103	6438	70/110	7072	70/093	7502	70/003
5469 10	70/114	6439	70/099	7073	70/011	7503	70/002
5471	70/135	6440	70/100	7074	70/011	7504	70/002
5473	70/107	6441	70/101	7075	70/012	7505	70/002
5474	70/107	6442	70/104	7078	70/088	7506	70/002
5476	70/107	6443	70/105	7079	70/032	7507	70/004
5477	70/107	6444	70/106	7080	70/015	7508	70/004
5478	70/102	6445	70/108	7081	70/015	7509	70/004
5500	70/002	6447	70/107	7082	70/015	7510	70/004

Order number	Catalogue page	Order number	Catalogue page	Order number	Catalogue page	Order number	Catalogue page
7513	70/087						
7514	70/087						
7515	70/087						
7516	70/087						
7517	70/087						
7518	70/087						
7519	70/009						
7520	70/009						
7522	70/093						
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