DIAMANT

◆ COMFORTline
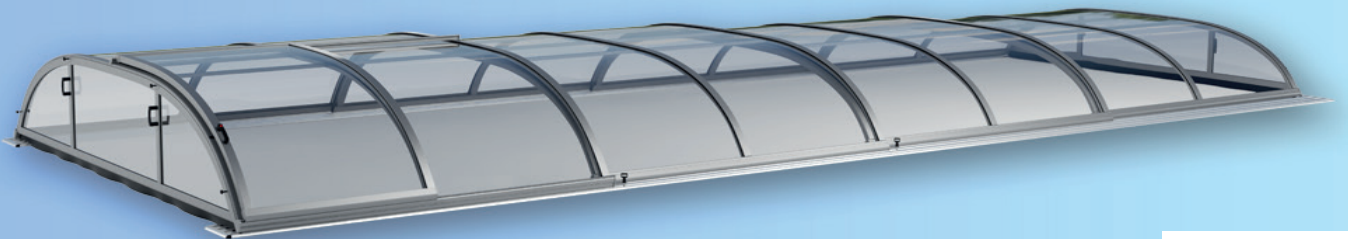### Symfonie COMPACT BOX

ASSEMBLY MANUAL

BOX 7
4 segments 4,5 x 10,11 x 1,0 m

Video manual

Scan the QR code before you begin.
This will provide access to the video manual, ensuring
a smooth and accurate mounting process for the Symphonie Compact Box.

BOX

Content

Before delving into the detailed installation process, let's provide some general information about Diamant-Unipool pool enclosures.

Diamant-Unipool enclosures come pre-assembled, eliminating the need for drilling. All structural and small parts required for installation are included in the box. You only need to ensure you have the correct installation tools.

For a smooth installation process, ensure proper access to the pool. At least two people are required to handle the enclosure safely. Regularly check the structure's functions during installation to promptly correct any mistakes.

Prior to assembly, verify that the pavement offers a suitable foundation for the tracks. It must be even, with no waviness or height differences exceeding 0.5cm within 1m. The surface should be horizontal, with a maximum allowance of 2cm within 1m. The pavement should be a minimum of 10cm deep, drillable, and anchorable. Check the quality and structure of the pavement for unevenness (see Fig.2.).

Fig. 1. Ideal surface for proper functioning

Fig. 2. Non-suitable surface for proper functioning - pool enclosure doesn't work

Suitable surfaces (reinforced materials):
Glued paving (tiles), concrete strips matching the track width, and well-installed wooden floors without plastic admixture.

Unsuitable surfaces (unreinforced materials):
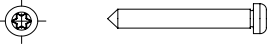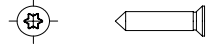Sand or gravel beds, block paving, wood-plastic boards, and chipped pavers.
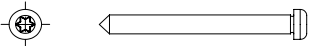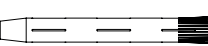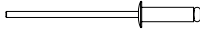
Track Installation:
Due to the thermal expansion of track materials, gaps may form in track joints. These gaps vary based on installation period and weather conditions. In spring and autumn, gaps are rare, with a tolerance of 0.01 - 0.4 cm. In summer, the tolerance is 0.01 - 0.6 cm. This natural occurrence cannot be prevented.

If the preparation for installation wasn't correct, tracks can become wavy, copying the surface, rendering the pool enclosure non-functional. If discov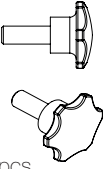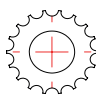ered, contact the responsible party for the surface to arrange disassembly, surface repair, and reassembly. Continued use in this condition can lead to extreme damage.

2 Parts list and tools

2.1 Fasteners

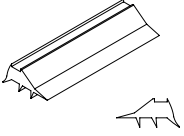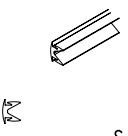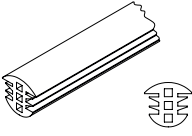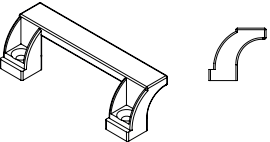|			
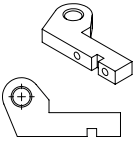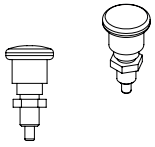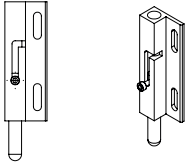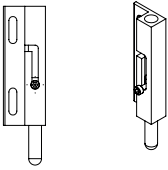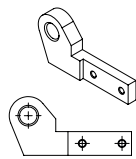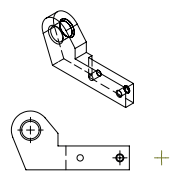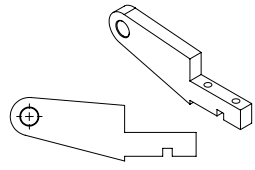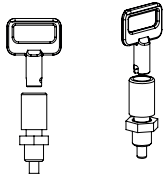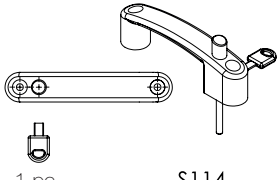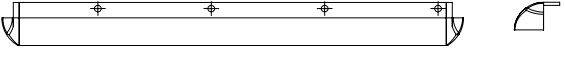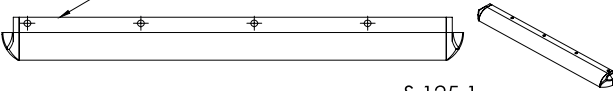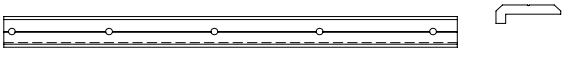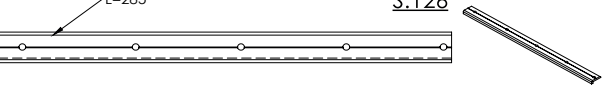
Diameter 6mm, lenght 45 mm, torx self-tapping screw
 	
61 pcs   S.01
	Diameter 6,3 mm, lenght 25mm, flat head torx self-tapping screw
	2 pcs S.02
		M6 x 30 torx
		
		     S.03
			M6 x 20 flat head torx
			
			     S.04

Diameter 6mm, lenght 60 mm, torx self-tapping screw
96 pcs   S.05
	Wall plug
	
	96 pcs S.10
		Aluminium rivet 4,8 - 16
		
		     S.20
		224 pcs S.20.1 black
			Aluminium rivet 4 - 10
			
			     S.21
			18 pcs S.21.1 black

Aluminium rivet 4,8 -10 S.22 S.22.1 black	Aluminium rivet 4,8 -12 4 pcs S.23	8 pcs S.06	Screw washer 3 pcs S.07
M5-25 8 pcs S.08	M5-16 6 pcs S.09		

2.2 Seal

S.G.01	S.G.02	S.G.05
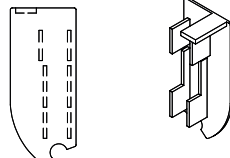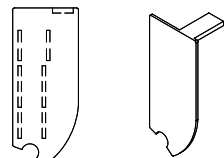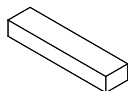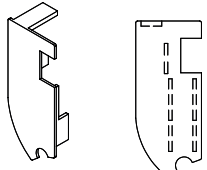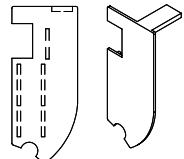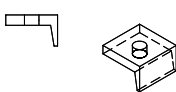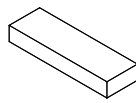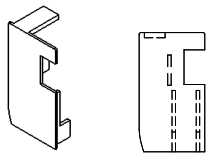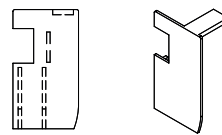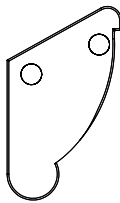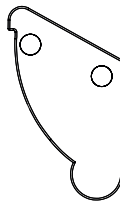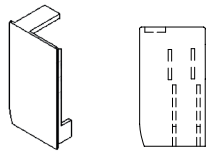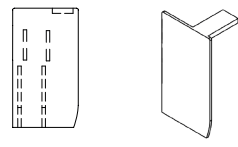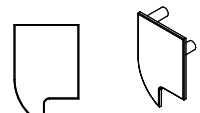
2.3 Parts

1 pc S.109	2 pcs S.101	2 pcs S.102	S.117
S.117.1	3 pcs S111	3 pcs S111.1 +	2 pcs S.112
5 pcs S.113	1 pc S114		

L=262   S.125

S.125.1

L=285   S.126

S.126.1

2.4 Plastic caps

98 pcs S.116 S.116.1 black	6 pcs S.128	6 pcs S.128.1	S.131
2 pcs S.118	2 pcs S.118.1	S.120	S.124
1 pc S.119	1 pc S.119.1	2 pcs S.122	2 pcs S.122.1
2 pcs S.127	2 pcs S.127.1	2 pcs S.123	2 pcs S.123.1
16 pcs S.140 black			

2.5 Required tools list
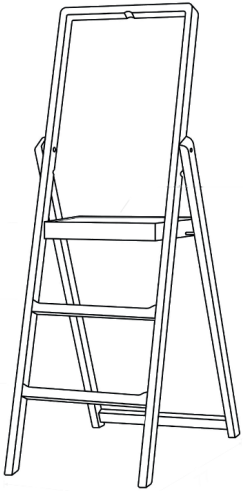
Ladder
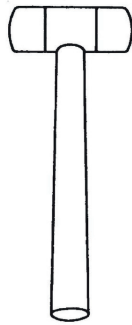
Rubber/plastic hammer
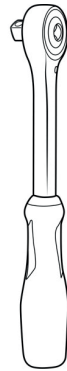
Ratchet
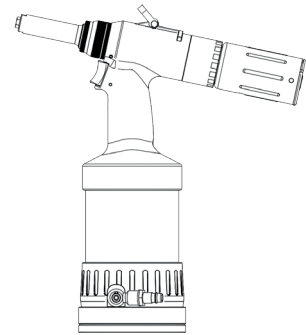
Pneumatic rivet gun
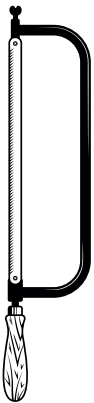
Hand saw
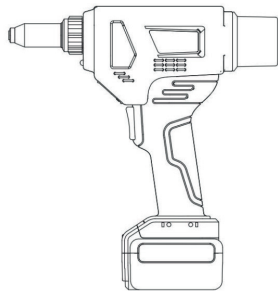
Battery-powered rivet gun
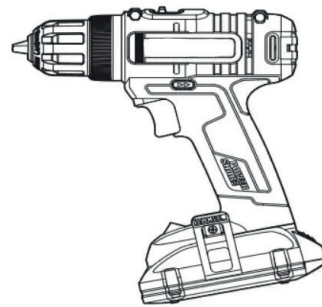
Battery-powered drill

2.6 Enclosed tools list
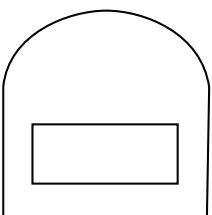
3 Track

3.1 Tracks measurements for correct installation

**BIRD VIEW of
the biggest segment:**

LEFT SIDE

C	D
A	B

RIGHT SIDE

FRONT VIEW
YOU STAY
HERE

D-2

B-2

r-1

U-2

D-3

B-1

D-1

U-1

LEFT SIDE

RIGHT SIDE

r-1

r-2

R-1

r-2

FRONT SIDE
YOU STAY
HERE
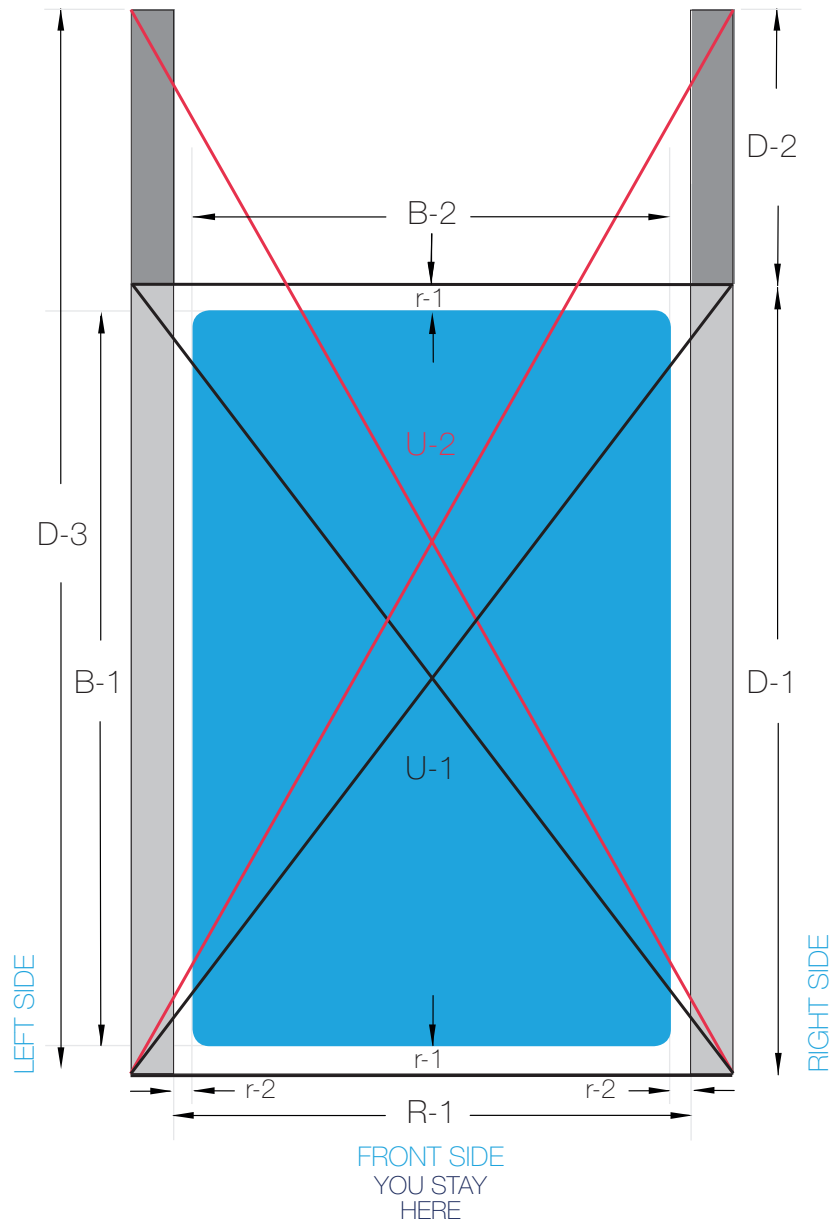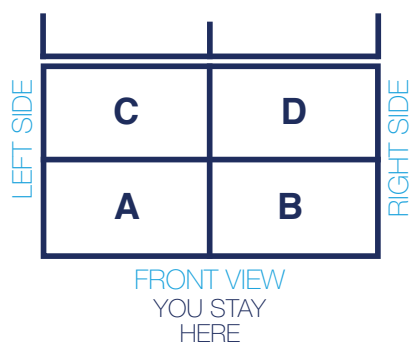
B-1: Total length of the pool
B-2: Total width of the pool
D-1: Length of the track under the pool enclosure
D-2: Length of track extension
D-3: Total length of the track
R-1: Inner width of the pool enclosure
r-1: Reserve of the pool enclosure
r-2: Reserve width of the pool enclosure
U-1: Basic diagonal measurement
U-2: Control diagonal measurement

3.2 Tracks measures

BOX 7 - rail D.1011-4
Inner width 4 500 mm
Length 10 110 + 2 500 mm
4 segments

Total lenght of the track 12610
Total length of the fully extended pool enclosure 10110

Storage area for
retracted segments

Segment 1   Segment 2   Segment 3   Segment 4

287

Cross section of the track D.1011-4

Sliding side door

Segment 1
Segment 2
Segment 3
Segment 4
Back end

Track cover

287   4500

5074
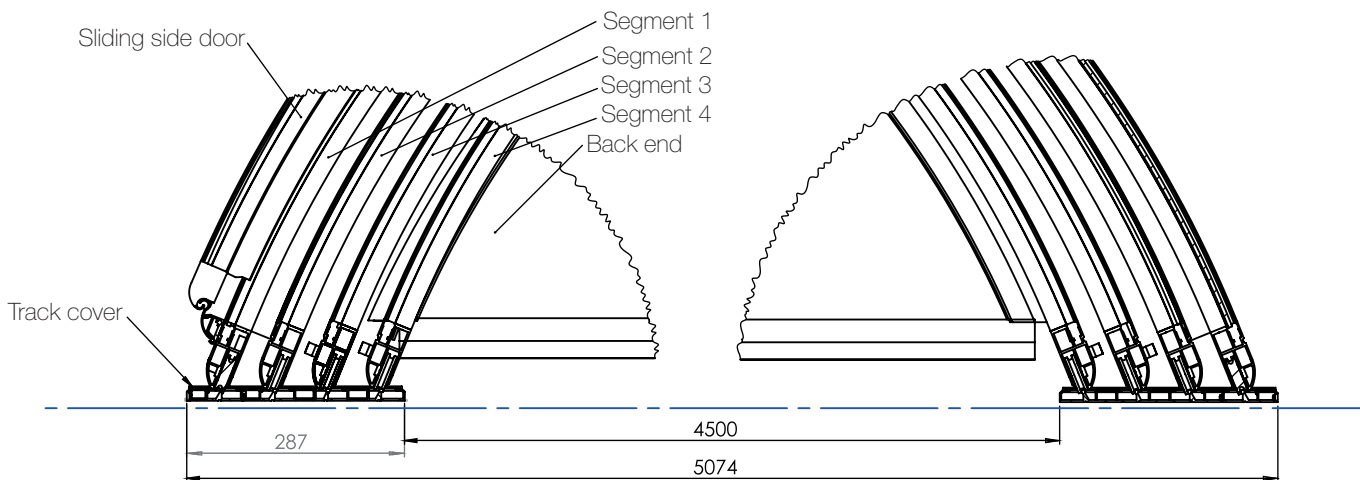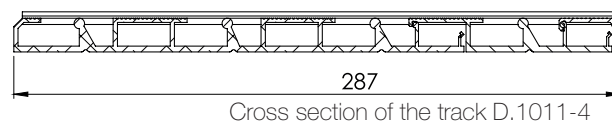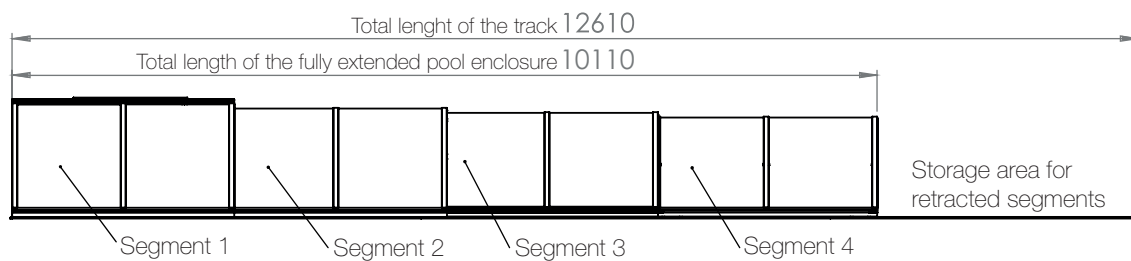
3.3 Cross section of the track with its rails

S.05
S.116

S.05
S.116

S.05
S.116

⌀12,30   ⌀12,30   ⌀12,30

Pool side

⌀8   ⌀8   ⌀8

S.10   S.10   S.10

3 Track

| S.10 | S.05 | S.116 |
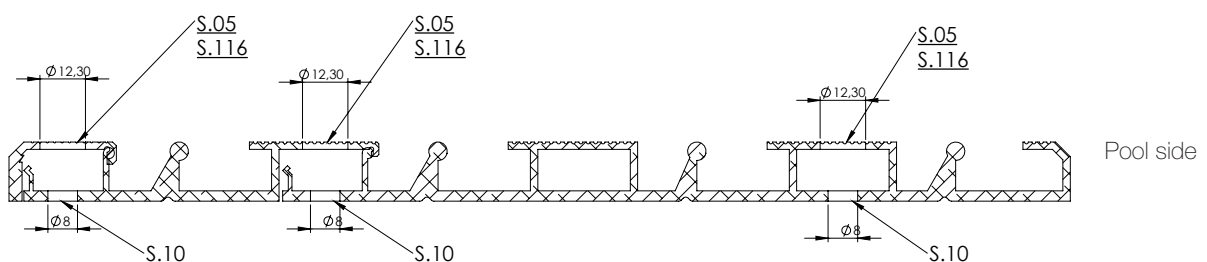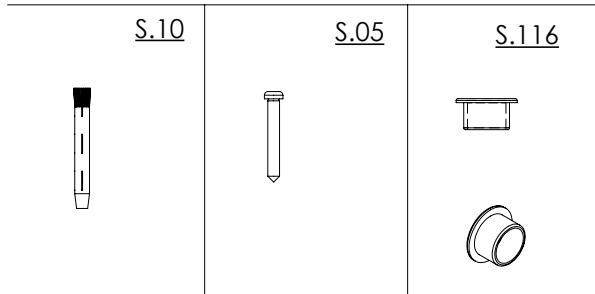
NOTE
The holes in the track are pre-drilled.
If necessary, holes can be drilled at a different spacing.
In that case always drill the holes according to the pattern (holes already drilled).

3.4 Layout of the track parts

12610

| 5000 | 5000 | 2610 |

Pool side

D.B7.500.A   D.B7.500.C   D.B7.261.A

D.B7.500.B   D.B7.500.D   D.B7.261.B

Pool side

End blocking bar

S.126
S.126.1

Rivet with S.21
when segments are on
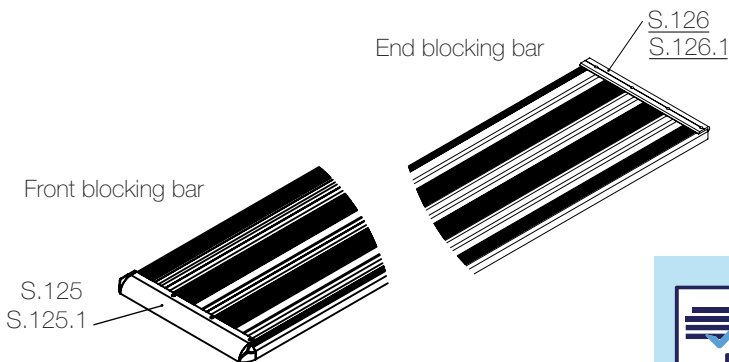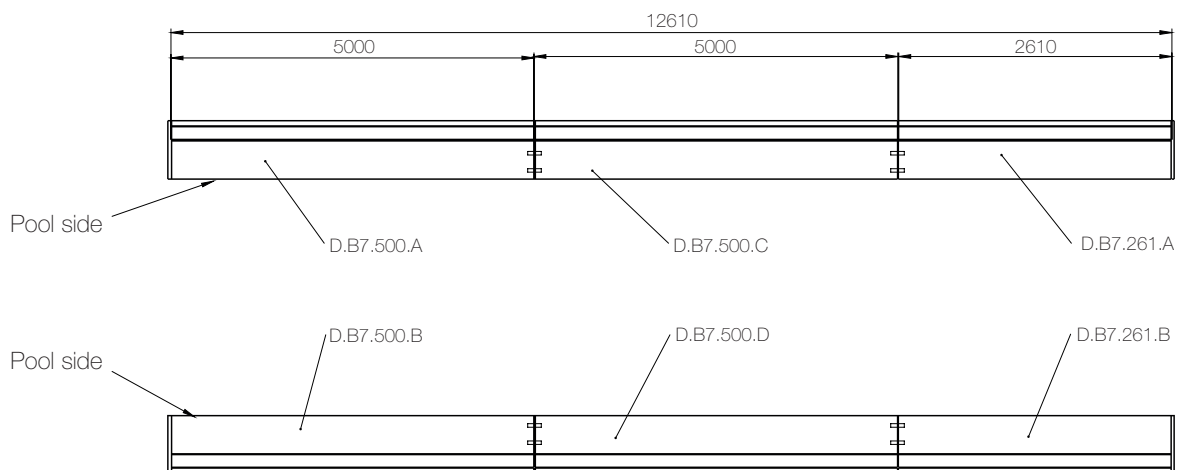
Front blocking bar

S.125
S.125.1

Rivet with S.21
when segments are on

NOTE
The front blocking bar S.125 must always be mounted at the front view where the largest segment is placed. The end blocking bar S.126 should be mounted at the back where is the smallest segment. The part S.126 facilitates water flow during cleaning. These bars are riveted once the pool enclosure is completed.

Description	Code	Pcs
Track, segment	D.B7.500.A; B; C; D	4
Track, segment	D.B7.261.A; B	2
Front blocking bar	S.125; S.125.1	1+1
End blocking bar	S.126; S.126.1	1+1

4 Segment 1 - Entrance variants

Side sliding doors
Lock on the right side

Left side

1

Front end

RL.45.1A

Side sliding doors
Lock on the left side

Right side

1

Front end

RL.45.1B

RL.45.1C

Side sliding doors
Lock on the left side

1

Left side

Front end

RL.45.1D

Side sliding doors
Lock on the right side

1

Right side

Front end

1

S.114 - Predrilled
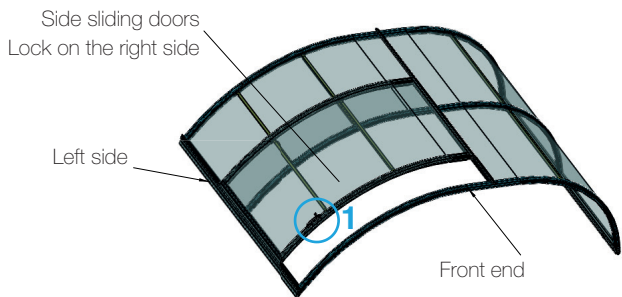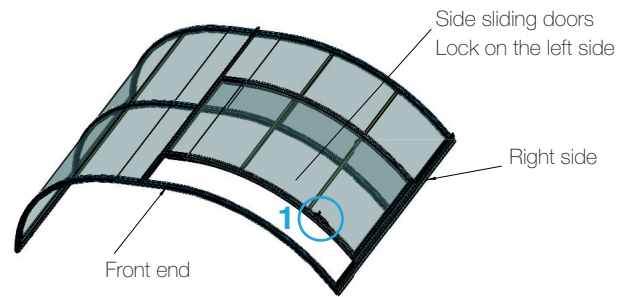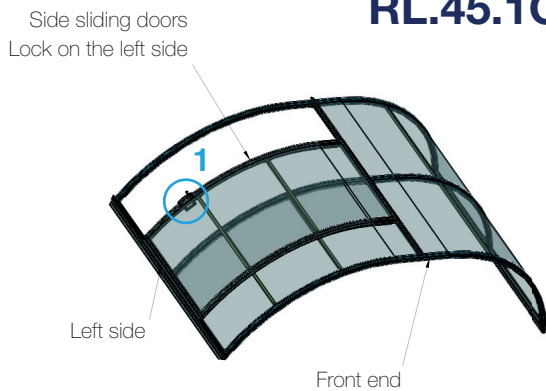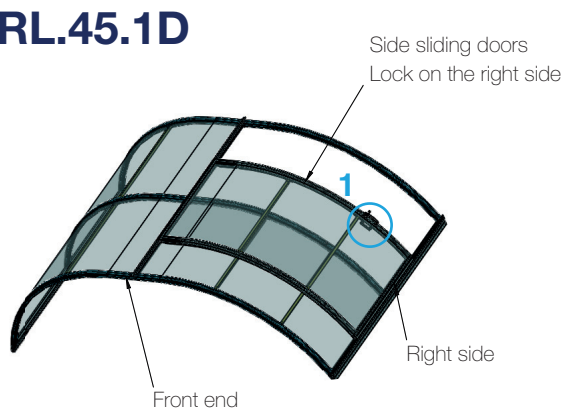
S.109 - Predrilled
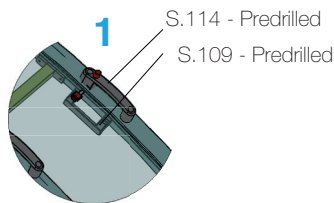
NOTE
It is essential to determine the position of the side sliding door during this assembling step. Select one of the four positions and proceed to the corresponding page marked with letters A, B, C, or D.

5 Segment 1

5.1 Parts of the segment 1

Parts of the segment	Description	Pcs
N.B7.01.P	Front arch n.1	1
N.B7.01.S	Middle arch n.2	1
N.B7.01.Z	Back arch n.3	1
A.20.257	Guide	1
A.20.257.1	Guide with the drive	1
A.04.257	Longitudinal reinforcement with the drive	1
A.03.257	Longitudinal reinforcement	10
PC.B7.BV	Polycarbonate, half arch, entrance side	1
PC.B7.01	Polycarbonate, whole arch	1
S.G.01	Rubber seal	
S.G.02	Rubber seal	
S.G.05	Rubber seal	

Fasteners	Description	Placing	Pcs
S.01	Screw	Arch/guide	12
S.20.1	Rivet	Arch/reinforcement	44

LEFT SIDE	C	D	RIGHT SIDE
	A	B	

FRONT SIDE
YOU STAY
HERE

N.B7.01.Z

PC.B7.01

PC.B7.BV

A.04.257

N.B7.01.S

2

N.B7.01.P

A.20.257

S.20.1
2 x rivet

A.03.257

A.20.257.1

1

S.01
2 x screw

N.B7.01.P

1

2

A.20.257

A.20.257.1

Install always on the door side
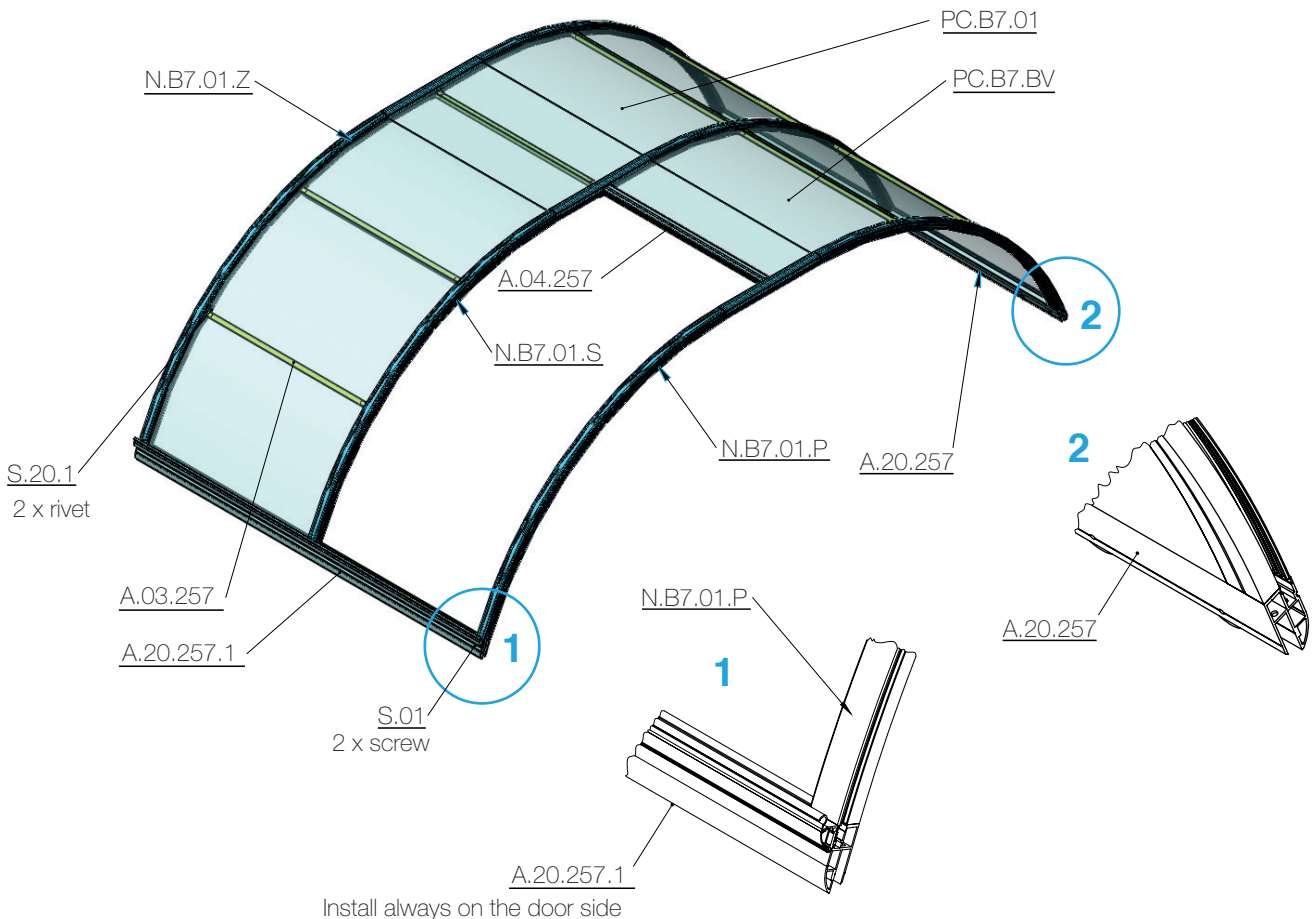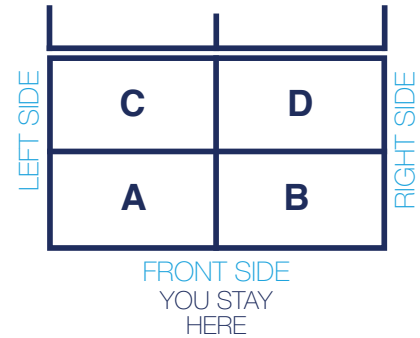
5.2 Segment 1 - Entrance RL.45.1A - Mounting workflow

1

N.B7.01.Z

⬇ X.XX.X

Position the back arch
N.B7.01.Z on a flat surface
in such a way as to avoid
scratching and with the arrow
pointing downwards.

2

Insert polycarbonate
PC.B7.01 into the arch.

PC.B7.01

N.B7.01.Z

3

N.B7.01.S

Insert the middle arch on
PC.B7.01 with the arrow
pointing downwards.

PC.B7.01

N.B7.01.Z

⬇ X.XX.X

4

N.B7.01.S

A.20.257.1

PC.B7.01

A.20.257

Insert the guide with the drive A.20.257.1 on the sliding door side.
Insert the guide A.20.257.
Screw all the arches together using screws S.01.

5

PC.B7.BV

A.20.257.1

N.B7.01.S

N.B7.01.Z

A.20.257

Insert PC.B7.BV correctly according to the placement of the doors.

6

A.04.257

PC.B7.BV

A.20.257.1

PC.B7.01

N.B7.01.S

N.B7.01.Z

A.20.257

Insert longitudinal reinforcement A.04.257 with the drive and rivet with the arches.

7

A.20.257.1

PC.B7.BV

N.B7.01.P

N.B7.01.S

A.20.257

N.B7.01.Z

⇓ X.XX.X

Insert the front arch N.B7.01.P with the arrow pointing downwards. Screw the arch with the guides.

8

A.04.257

PC.B7.BV

N.B7.01.P

N.B7.01.S

A.03.257   N.B7.01.Z

Insert longitudinal reinforcements A.03.257 and rivet them with the arches.

NOTE
The arch and guide are fastened together with S.01 screws.
Longitudinal reinforcements are riveted using S.20.1 rivets.

5.3 Segment 1 - Entrance RL.45.1B - Mounting workflow

1

N.B7.01.Z

⇩ X.XX.X

Position the back arch
N.B7.01.Z on a flat surface
in such a way as to avoid
scratching and with the arrow
pointing downwards.

2

Insert polycarbonate
PC.B7.01 into the arch.

PC.B7.01

N.B7.01.Z

3

N.B7.01.S

Insert the middle arch on
PC.B7.01 with the arrow
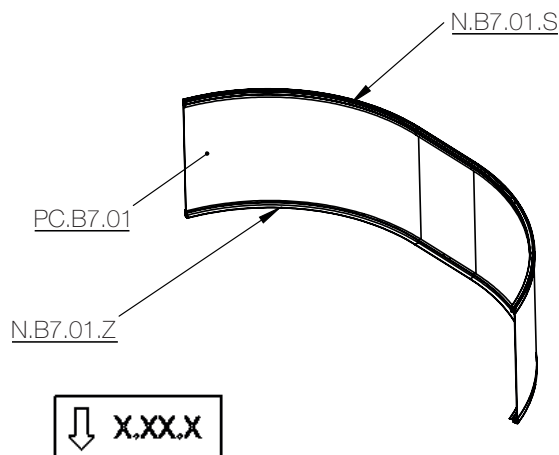pointing downwards.

PC.B7.01

N.B7.01.Z

⇩ X.XX.X

4

N.B7.01.S

A.20.257

PC.B7.01

A.20.257.1

Insert the guide with the drive A.20.257.1 on the sliding door side.
Insert the guide A.20.257.
Screw all the arches together using screws S.01.

5

PC.B7.BV

A.20.257

N.B7.01.S

A.20.257.1

PC.B7.01

N.B7.01.Z

Insert PC.B7.BV correctly according to the placement of the doors.

6

PC.B7.BV

A.04.257

N.B7.01.S

A.20.257.1

A.20.257

PC.B7.01

N.B7.01.Z

Insert longitudinal reinforcement A.04.257 with the drive and rivet with the arches.

7

N.B7.01.P
PC.B7.BV
A.20.257
A.04.257
A.20.257.1
N.B7.01.S
PC.B7.01
N.B7.01.Z

X.XX.X

Insert the front arch N.B7.01.P with the arrow pointing downwards. Screw the arch with the guides.

8

N.B7.01.P
PC.B7.BV
A.20.257
A.04.257
A.20.257.1
N.B7.01.S
PC.B7.01
N.B7.01.Z
A.03.257

X.XX.X

Insert longitudinal reinforcements A.03.257 and rivet them with the arches.

NOTE
The arch and guide are fastened together with S.01 screws.
Longitudinal reinforcements are riveted using S.20.1 rivets.

5.4 Segment 1 - Entrance RL.45.1C - Mounting workflow

1

N.B7.01.Z

⬇ X.XX.X

Position the back arch
N.B7.01.Z on a flat surface
in such a way as to avoid
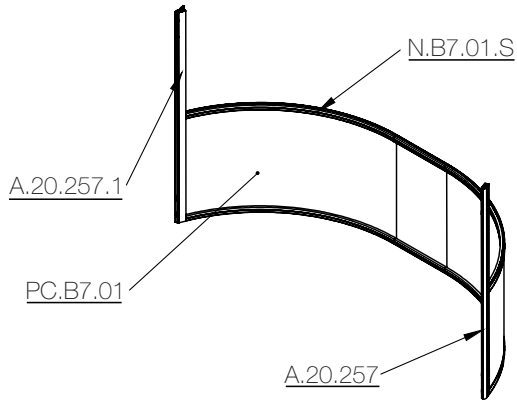scratching and with the arrow
pointing downwards.

2

PC.B7.BV

N.B7.01.Z

Insert polycarbonate
PC.B7.BV correctly
according to the placement
of the doors.

3

N.B7.01.S

N.B7.01.Z

PC.B7.BV

⬇ X.XX.X

Insert the middle arch on
PC.B7.BV with the arrow
pointing downwards.

4

A.20.257.1

N.B7.01.S

N.B7.01.Z

PC.B7.BV

A.20.257

Insert the guide with the drive A.20.257.1 on the sliding door side.
Insert the guide A.20.257.
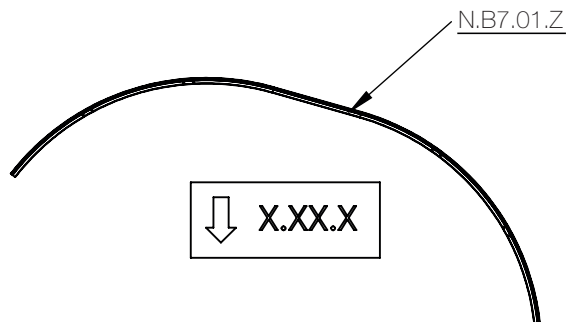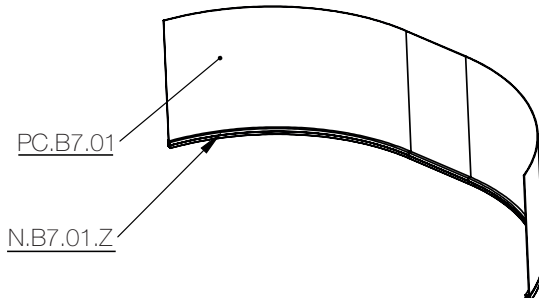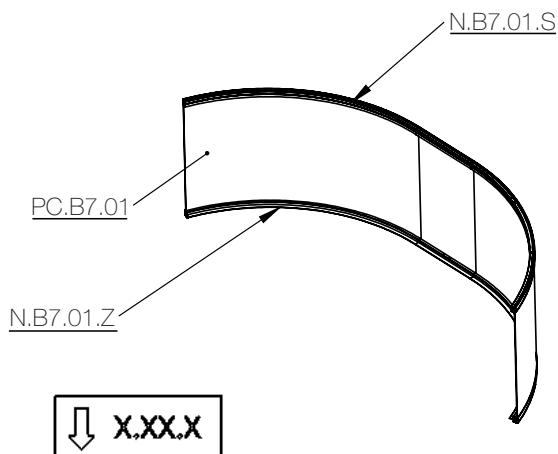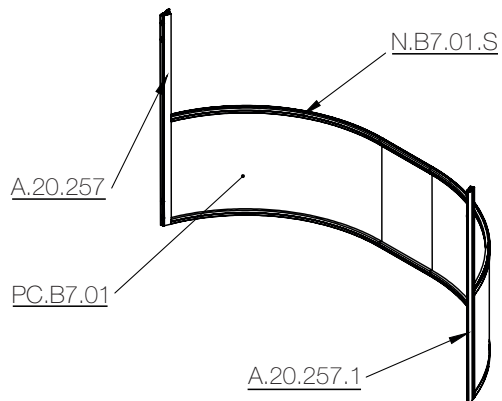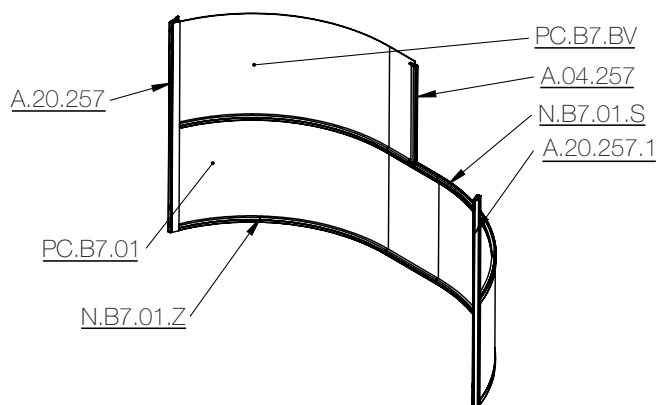Screw all the arches together using screws S.01.

5

PC.B7.01

A.20.257.1

PC.B7.BV
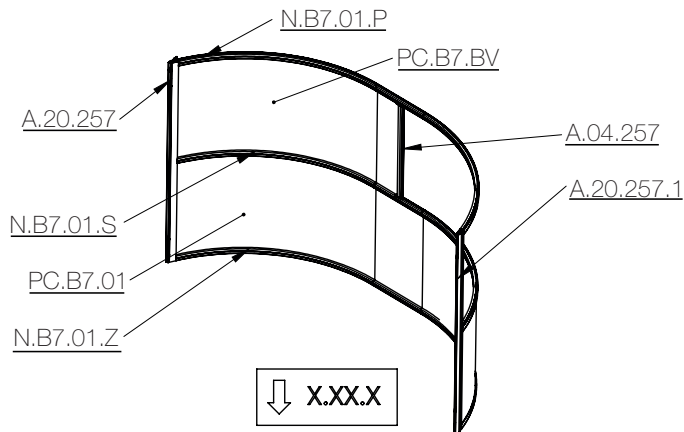
N.B7.01.S

N.B7.01.Z

A.20.257

Insert polycarbonate PC.B7.01 into the arch.

6

PC.B7.01

A.20.257.1

PC.B7.BV

N.B7.01.S

N.B7.01.Z

A.04.257

A.20.257

Insert longitudinal reinforcement A.04.257 with the drive and rivet with the arches.

7

N.B7.01.P
PC.B7.01
A.20.257.1
PC.B7.BV
N.B7.01.S
A.20.257
N.B7.01.Z   A.04.257

⇩ **X.XX.X**

Insert the front arch
N.B7.01.P with the arrow
pointing downwards. Screw
the arch with the guides.

8

A.03.257   N.B7.01.P
PC.B7.01
A.20.257.1
PC.B7.BV
N.B7.01.S
A.20.257
N.B7.01.Z   A.04.257

Insert longitudinal
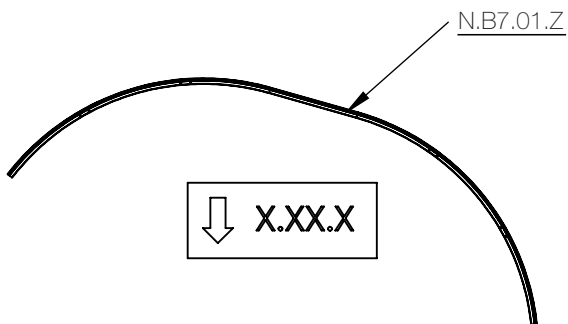reinforcements A.03.257
and rivet them with the
arches.

NOTE
The arch and guide are fastened
together with S.01 screws.
Longitudinal reinforcements are riveted
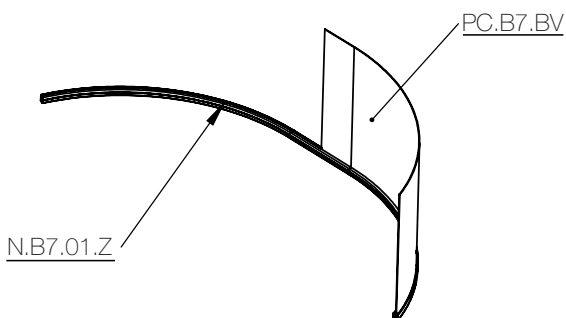using S.20.1 rivets.

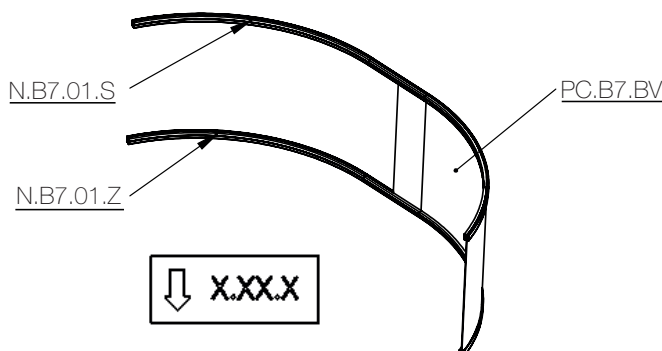## 5.5 Segment 1 - Entrance RL.45.1D - Mounting workflow

1

N.B7.01.Z

⬇ X.XX.X

Position the back arch N.B7.01.Z on a flat surface in such a way as to avoid scratching and with the arrow pointing downwards.

2

PC.B7.BV

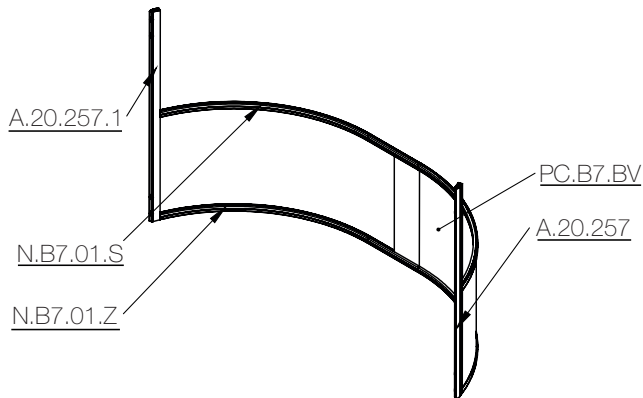N.B7.01.Z

Insert polycarbonate PC.B7.BV correctly according to the placement of the doors.

3

PC.B7.BV

N.B7.01.S

N.B7.01.Z

⬇ X.XX.X

Insert the middle arch on PC.B7.BV with the arrow pointing downwards.

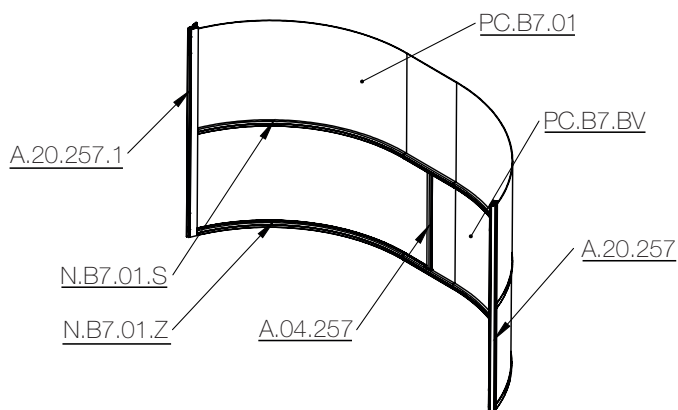**4**

PC.B7.BV

A.20.257.1

A.20.257

N.B7.01.S

N.B7.01.Z

Insert the guide with the drive A.20.257.1 on the sliding door side.
Insert the guide A.20.257.
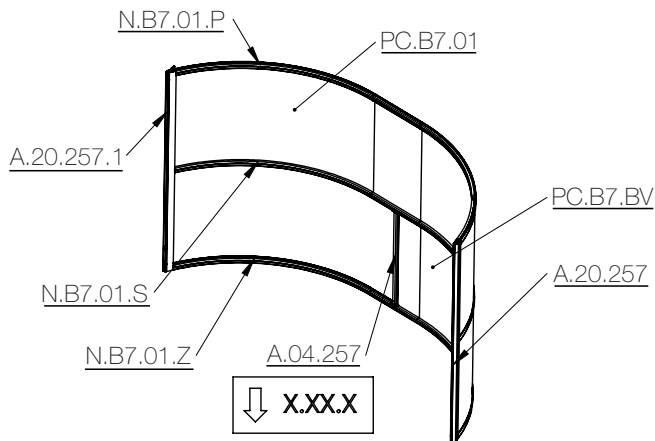Screw all the arches together using screws S.01.

5

A.20.257

N.B7.01.S

PC.B7.BV

PC.B7.01

A.20.257.1

N.B7.01.Z

Insert polycarbonate PC.B7.01 into the arch.

6

A.20.257

N.B7.01.S

PC.B7.BV

PC.B7.01

A.20.257.1

A.04.257

N.B7.01.Z

Insert longitudinal reinforcement A.04.257 with the drive and rivet with the arches.

7

PC.B7.01
N.B7.01.S
PC.B7.BV
A.20.257
N.B7.01.P
A.20.257.1
N.B7.01.Z
A.04.257

⬇ X.XX.X

Insert the front arch N.B7.01.P with the arrow pointing downwards. Screw the arch with the guides.

8

A.03.257
PC.B7.01
N.B7.01.P
N.B7.01.S
A.20.257
PC.B7.BV
N.B7.01.Z
A.03.257
A.04.257
A.20.257.1

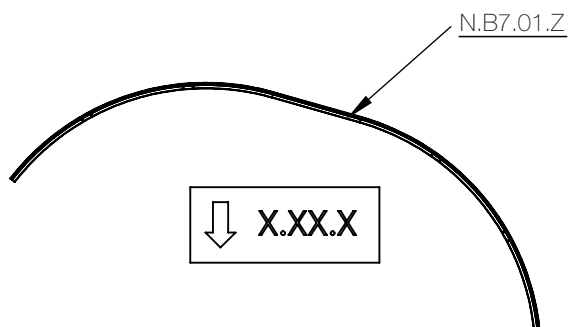Insert longitudinal reinforcements A.03.257 and rivet them with the arches.

NOTE
The arch and guide are fastened together with S.01 screws.
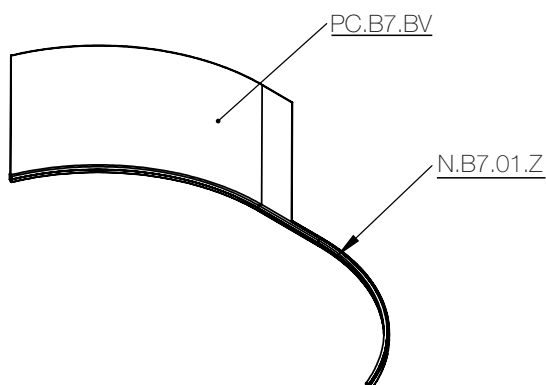Longitudinal reinforcements are riveted using S.20.1 rivets.

5.6 Segment 1 - Rubber seal

Insert the rubber seal around the perimeter of the polycarbonate.

NOTE
After mounting the segment, first attach the plastic caps S.140, end profiles, catchers, collectors, and finally insert the rubber seal.

5.7 Segment 1 - Entrance A,C - Catchers and collectors placement

LEFT SIDE

C	D
A	B

RIGHT SIDE

FRONT SIDE
YOU STAY
HERE

The placement of segment
catchers and collectors.
Segment 1
Entrance A, C

Front end

Right side

1

Right side

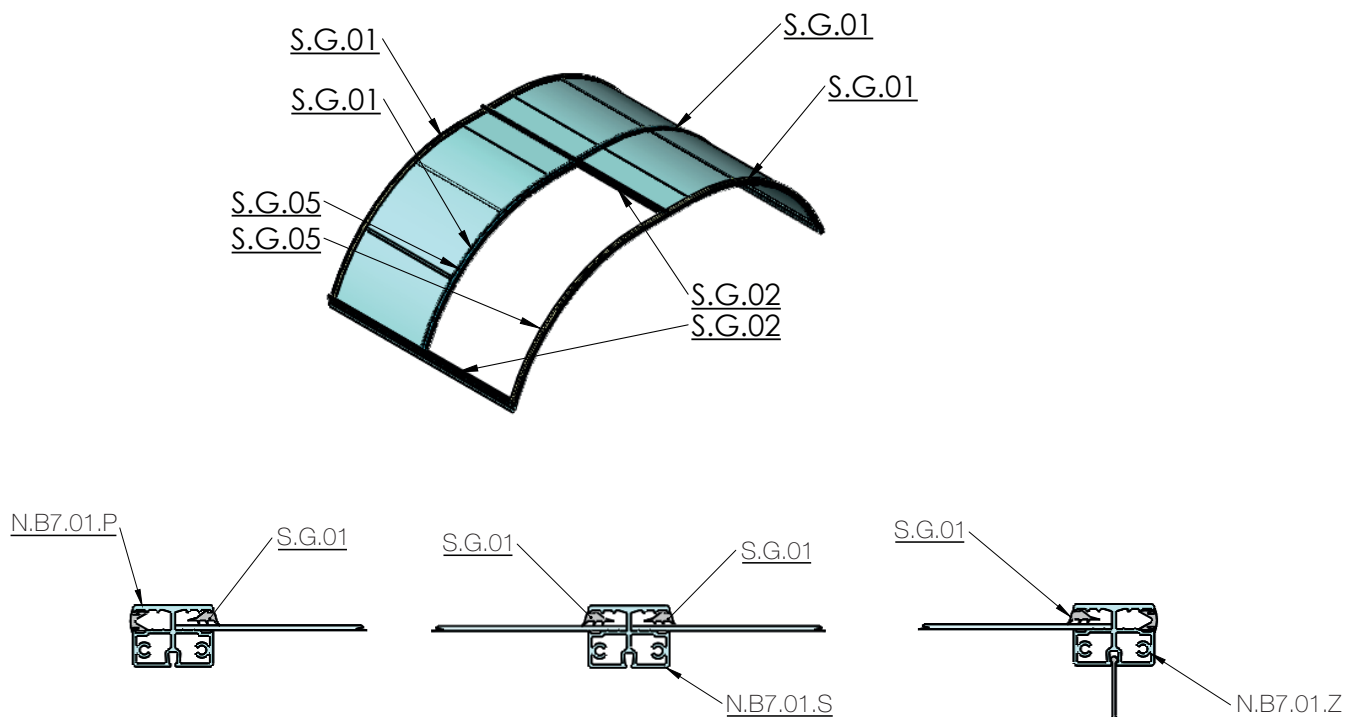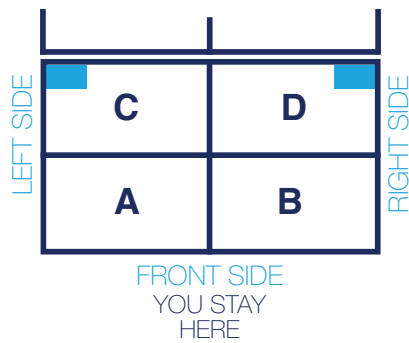Plastic cap
S.127

S.113

Screw – arch/guide
2x S.01

2x S.08

1

2

3   Left side

2

**Screw 3 times s.01
Screw washer 3 times s.07

D.013.257   D.022.257

Plastic cap   S.122

Entrance side

Left side

3

**Screw –
collector holder
2x S.09

S.111.1

Screw – arch/guide
2x S.01

Plastic cap S.119.1

2x S.08

**S.113

**S.113   S.112

* Pre-drilled
** Adjust before tightening

5.8 Segment 1 - Entrance B, D - Catchers and collectors placement

The placement of segment catchers and collectors.
Segment 1
Entrance B, D

LEFT SIDE	C	D	RIGHT SIDE
	A	B	

FRONT SIDE
YOU STAY
HERE

Front end

Left side

Right side

2

1

3

1

Left side

S.127.1

**S.113

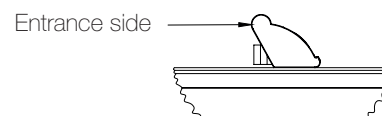*Screw – arch/guide
2x S.01

S.112

2x S.08

2

D.013.257

D.022.257

**Screw – arch/guide   3x S.01
Screw washer 3x S.07

Plastic cap
S.122.1

Entrance side

3

Right side

**S.113

**S.111

Screw – collector holder
2x S.09

S.119

**S.113

2x S.08
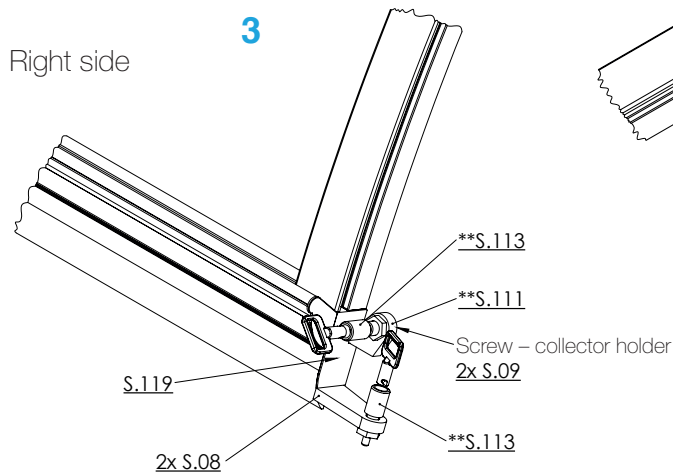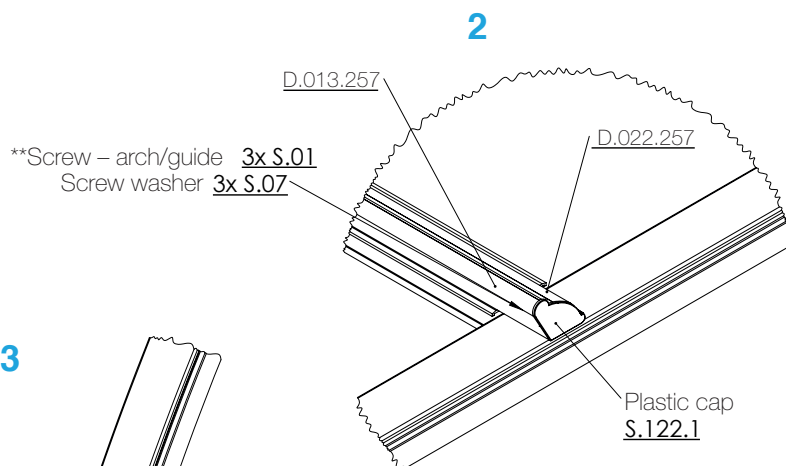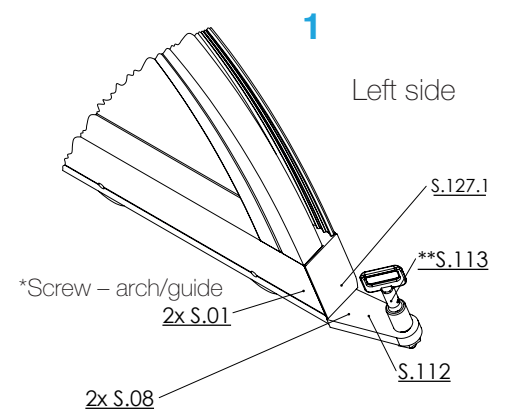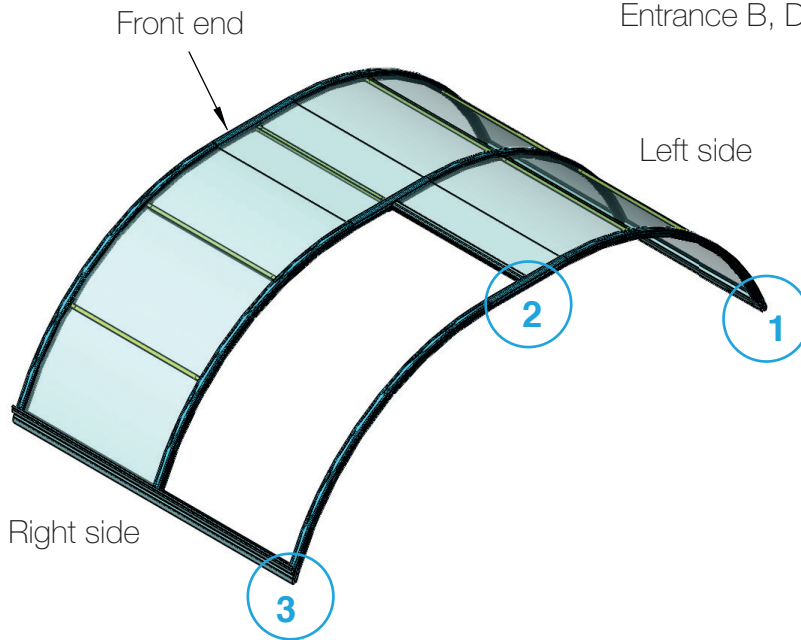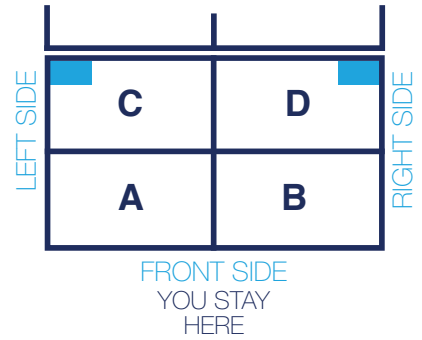
* Pre-drilled
** Adjust before tightening

6 Segments 2, 3, 4

6.1. Parts of the segments 2, 3, 4

| Segment 2	Description	Pcs	Segment 3	Description	Pcs	Segment 4	Description	Pcs
N.B7.02.P	Front arch n.1	1	N.B7.03.P	Front arch n.1	1	N.B7.04.P	Front arch n.1	1
N.B7.02.S	Middle arch n.2	1	N.B7.03.S	Middle arch n.2	1	N.B7.04.S	Middle arch n.2	1
N.B7.02.Z	Back arch n.3	1	N.B7.03.Z	Back arch n.3	1	N.B7.04.Z	Back arch n.3	1
A.20.257.L	Guide left	1	A.20.257.L	Guide left	1	A.20.257.L	Guide left	1
A.20.257.P	Guide right	1	A.20.257.P	Guide right	1	A.20.257.P	Guide right	1
PC.B7.02	Polycarbonate, whole arch	2	PC.B7.03	Polycarbonate, whole arch	2	PC.B7.04	Polycarbonate, whole arch	2
A.03.257	Longitudinal reinforcement	14	A.03.257	Longitudinal reinforcement	14	A.03.257	Longitudinal reinforcement	14
S.G.01	Rubber seal		S.G.01	Rubber seal		S.G.01	Rubber seal	
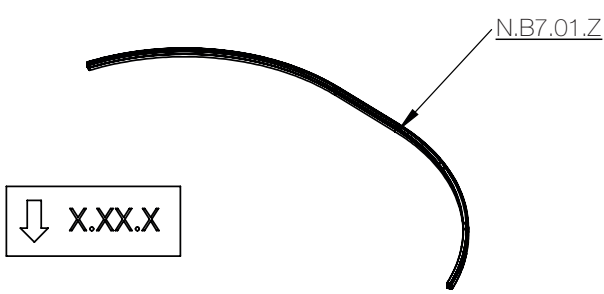
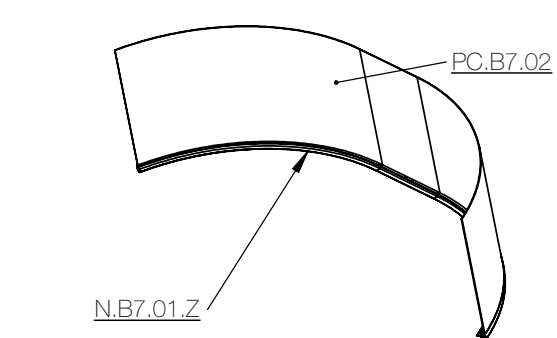| Fasteners	Description	Placing	Pcs
S.01	Screw	Arch/guide	36
S.20.1	Rivet	Arch /reinforcement	168
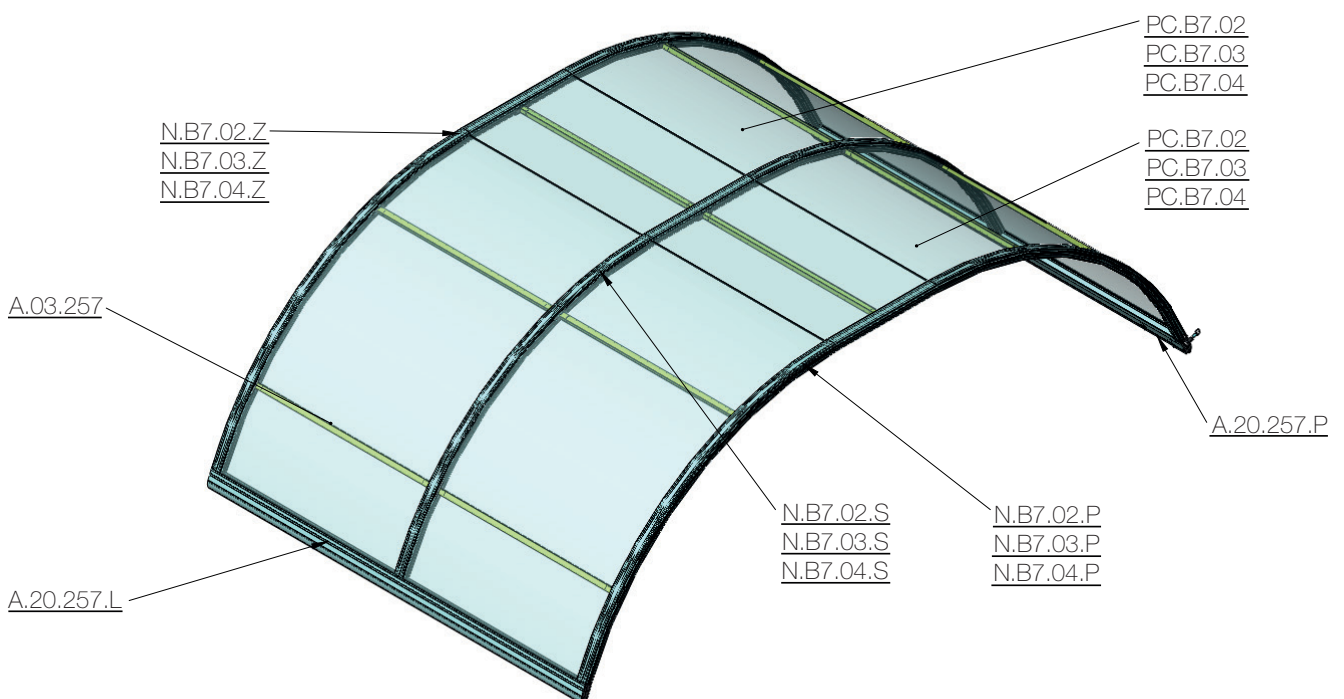
6.2 Segments 2, 3, 4 - Mounting workflow

1

N.B7.01.Z

X.XX.X

Position the back arch N.B7.01.Z on a flat surface in such a way as to avoid scratching and with the arrow pointing downwards.
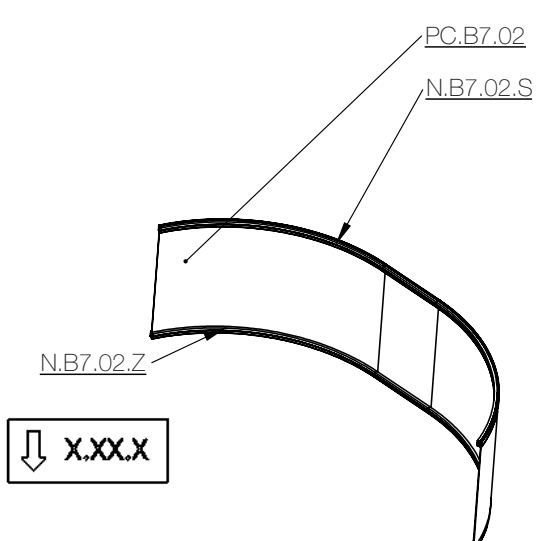
2

PC.B7.02

N.B7.01.Z

Insert polycarbonate PC.B7.02 into the arch.
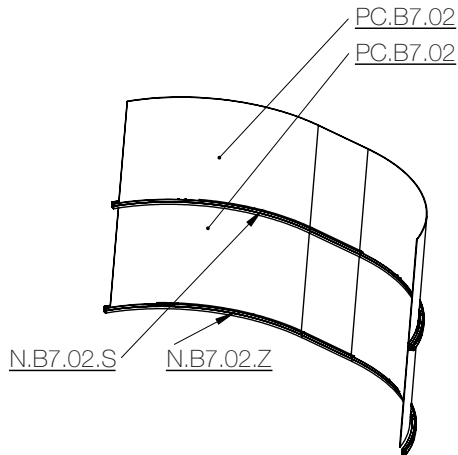
3

PC.B7.02

N.B7.02.S

N.B7.02.Z

X.XX.X

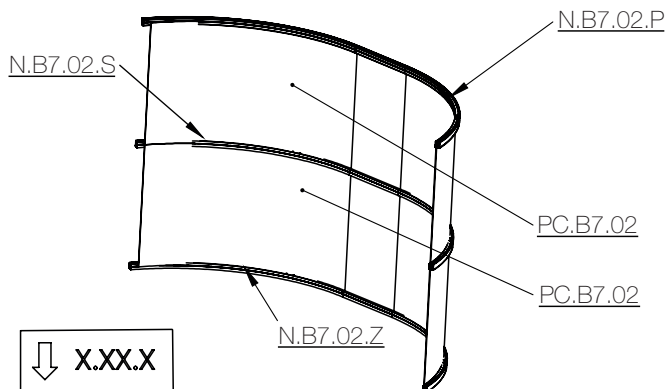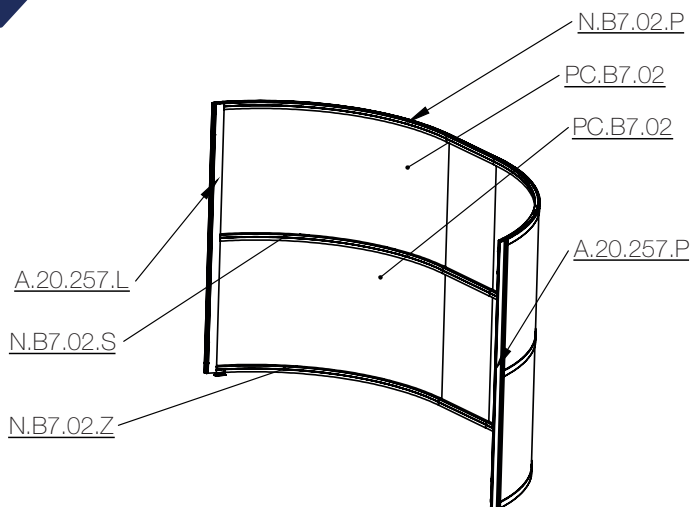Insert the middle arch N.B7.01.S on PC.B7.02 with the arrow pointing downwards.

4

PC.B7.02
PC.B7.02

N.B7.02.S   N.B7.02.Z

Insert PC.B7.02 into the arch.

5

N.B7.02.P

N.B7.02.S

PC.B7.02

PC.B7.02

N.B7.02.Z

X.XX.X

Insert the front arch N.B7.02.P on PC.B7.02 with the arrow pointing downwards.

6

N.B7.02.P

PC.B7.02

PC.B7.02

A.20.257.P

A.20.257.L

N.B7.02.S

N.B7.02.Z

Insert the 2 guides A.20.257.L and A.20.257.P and screw them with the arches.

7

N.B7.02.P

A.20.257.L

N.B7.02.S

N.B7.02.Z

S.20.1

A.03.257

A.03.257

A.20.257.P
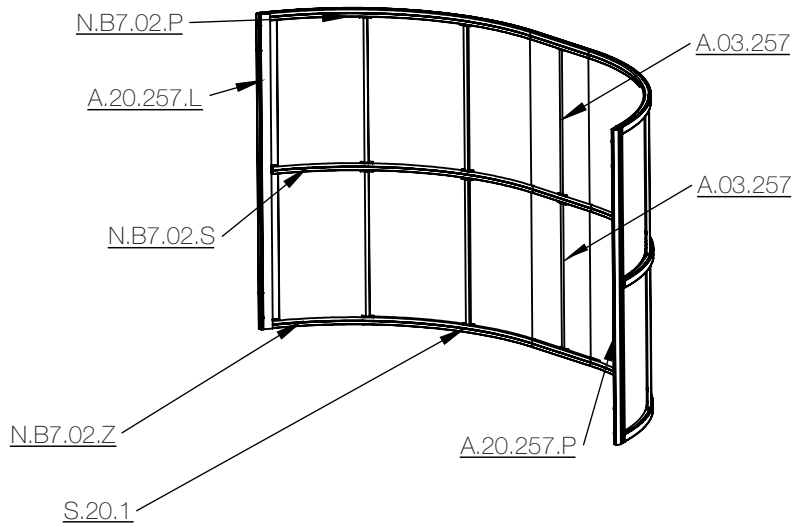
Insert longitudinal
reinforcements
A.03.257 and rivet
them.

8
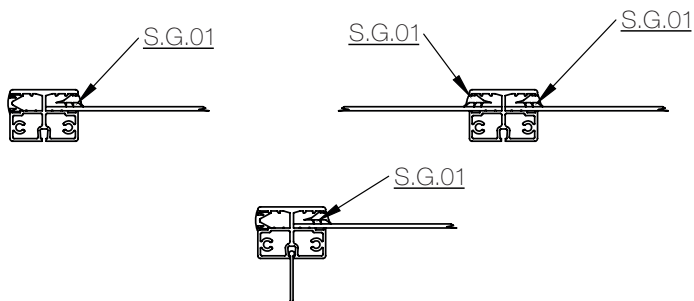
S.G.01

S.G.01

S.G.01

S.G.01

Insert the rubber
seal S.G.01 around
the perimeter of the
polycarbonate.

NOTE
The arch and guide are fastened
together with S.01 screws.
Longitudinal reinforcements are riveted
using S.20.1 rivets.
After mounting the segment, attach
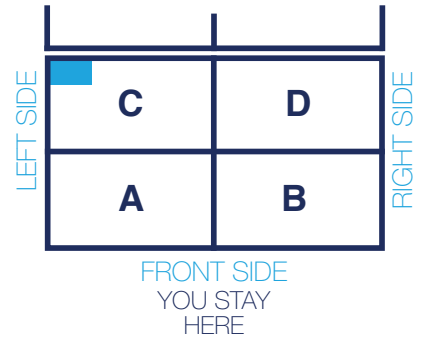the plastic caps.

6.3 Middle segments 2, 3 - Collectors

NOTE
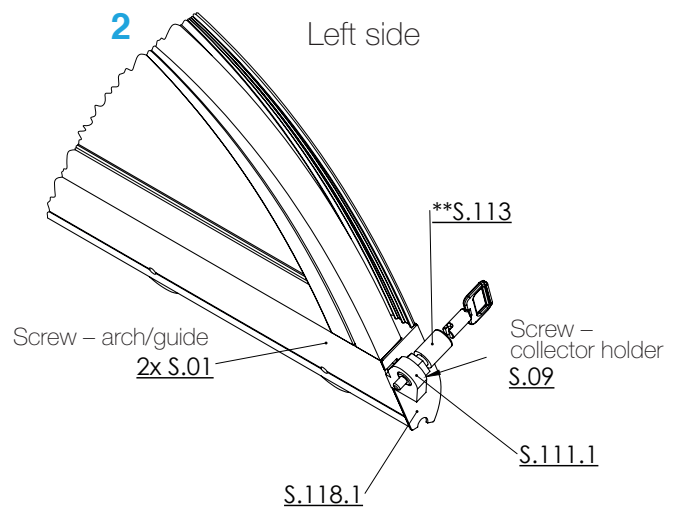The segment collectors are always placed on the side of the side door entrance.

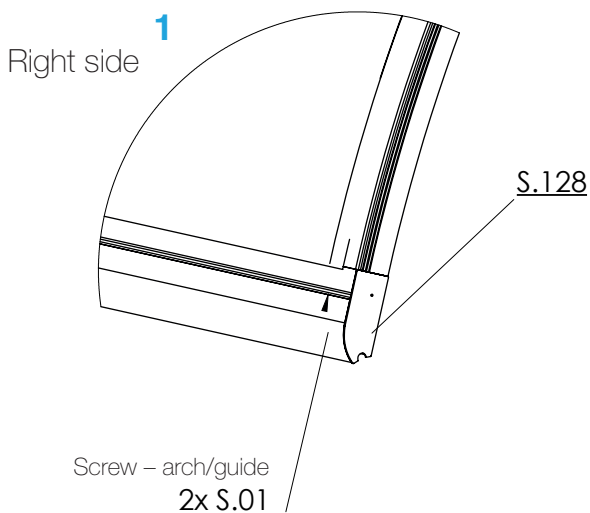The placement of segment collector.
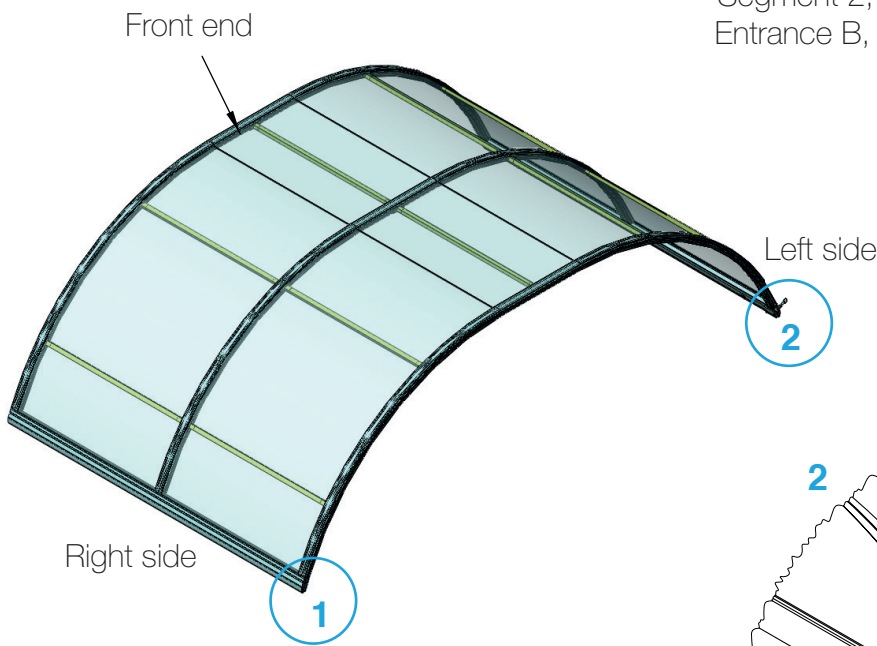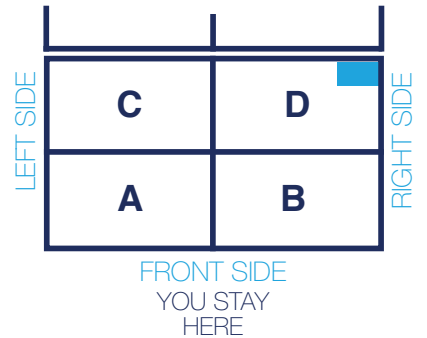Segment 2, 3
Entrance A, C

LEFT SIDE			RIGHT SIDE
	C	D	
	A	B	

FRONT SIDE
YOU STAY
HERE

The placement of segment collector.
Segment 2, 3
Entrance B, D

LEFT SIDE			RIGHT SIDE
	C	D	
	A	B	

FRONT SIDE
YOU STAY
HERE

Front end

Left side

2

Right side

1

1
Right side

S.128

Screw – arch/guide
2x S.01

2
Left side

**S.113

Screw – arch/guide
2x S.01

Screw –
collector holder
S.09

S.118.1

S.111.1

* Pre-drilled
** Adjust before tightening

6.4 Last segment 4 - Catchers

Back end

Right side

Left side

1

2

LEFT SIDE

C	D
A	B

RIGHT SIDE

FRONT SIDE
YOU STAY
HERE

1

Left side

S.127

**S.102

S.101
*Screw catcher holder
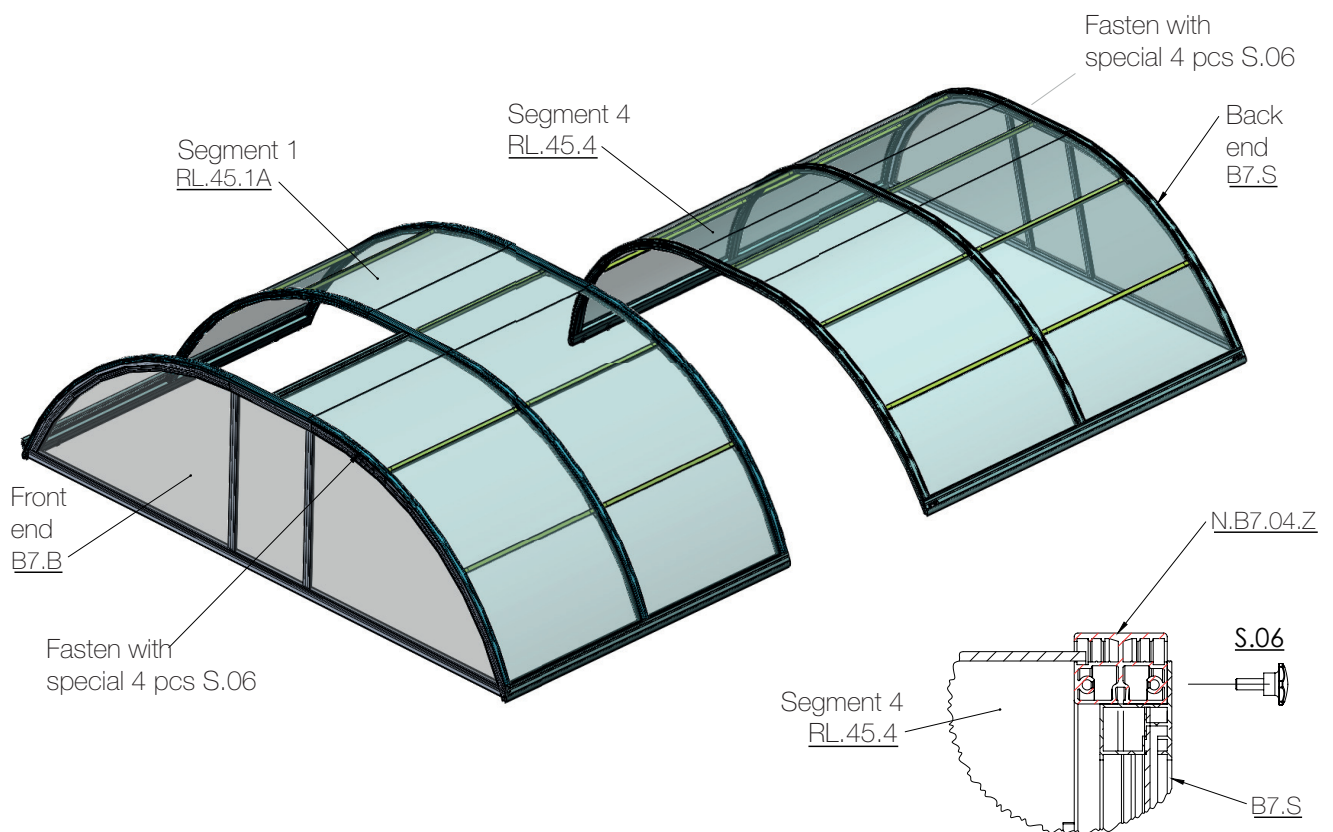2 pcs S.08

2

Right side

**S.102

S.127.1

S.101
*Screw catcher holder
2 pcs S.08
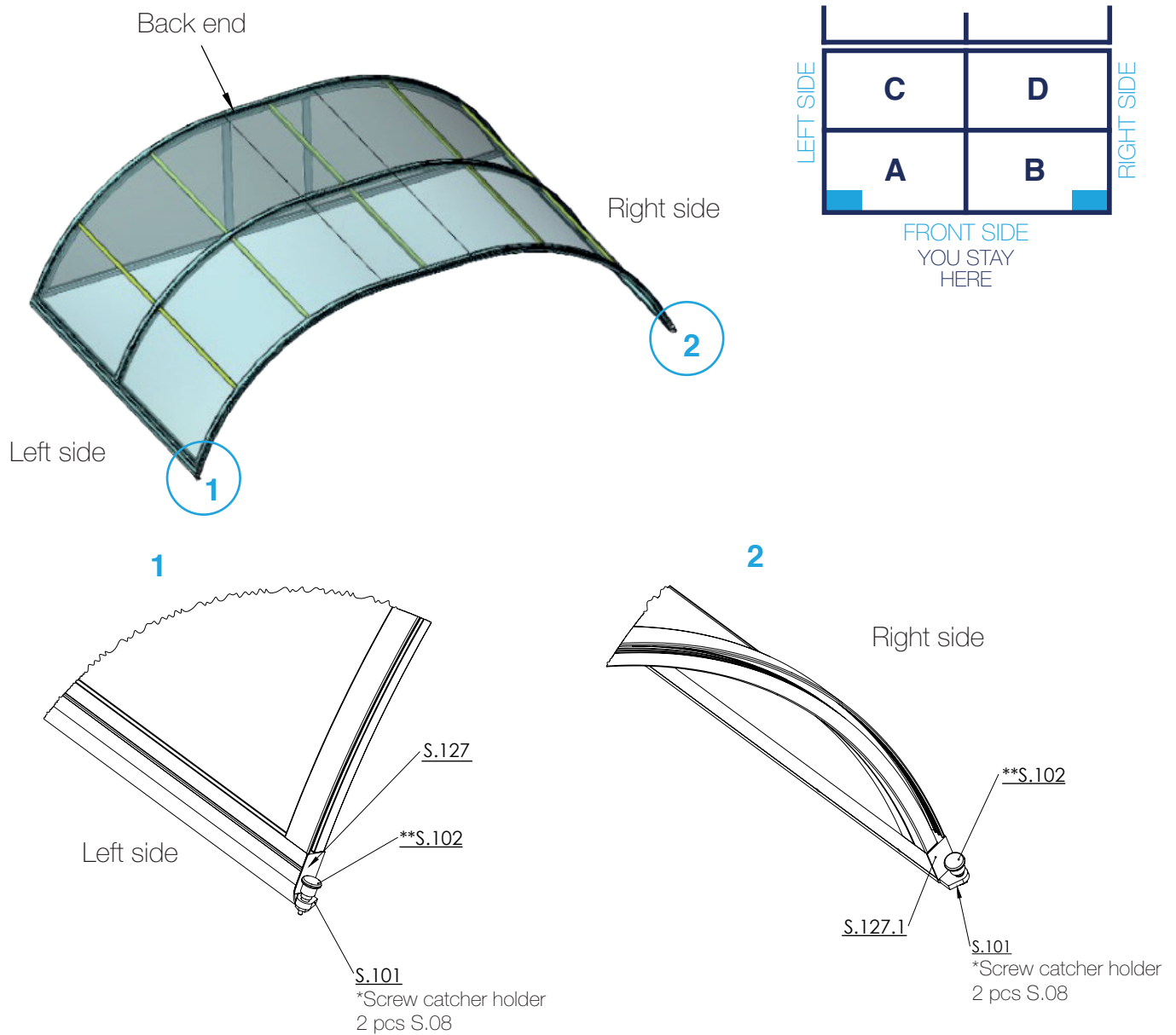
* Pre-drilled
** Adjust before tightening

7 Front and back ends

Front and back ends are always mounted after the corresponding segment has been installed on the track.

Fasten with
special 4 pcs S.06

Segment 4
RL.45.4

Segment 1
RL.45.1A

Back
end
B7.S

Front
end
B7.B

Fasten with
special 4 pcs S.06

N.B7.04.Z

S.06

Segment 4
RL.45.4

B7.S

> **NOTE**
> Ends Assembly
> Position the end B7.B and after the end B7.S against the threaded holes on the surface of the arch.
> Mount the front and back ends of the segment by screwing them using the special large Diamant screws S.06.

8.1 Entrance - Side sliding door - Parts of the side sliding door

Code	Description	Pcs
V.B7.P	Arch	1
V.B7.Z	Arch	1
V.01.P.L	Guide	2
PC.B7.D	Polycarbonate	1
A.03.257	Longitudinal reinforcement	3
S.G.01	Rubber seal	
S.114	Door lock	1
S.109	Door handle	1

Fasteners	Description	Placing	Pcs
S.01	Screw	Arch / guide / door handle	10
S.20.1	Rivet	Arch / longitudinal reinforcement	12
S.02	Screw	Arch / door handle	2
S.23	Rivet	Catcher / guide	4

After installing the door lock, adjust the dowel pin to the correct height by cutting.
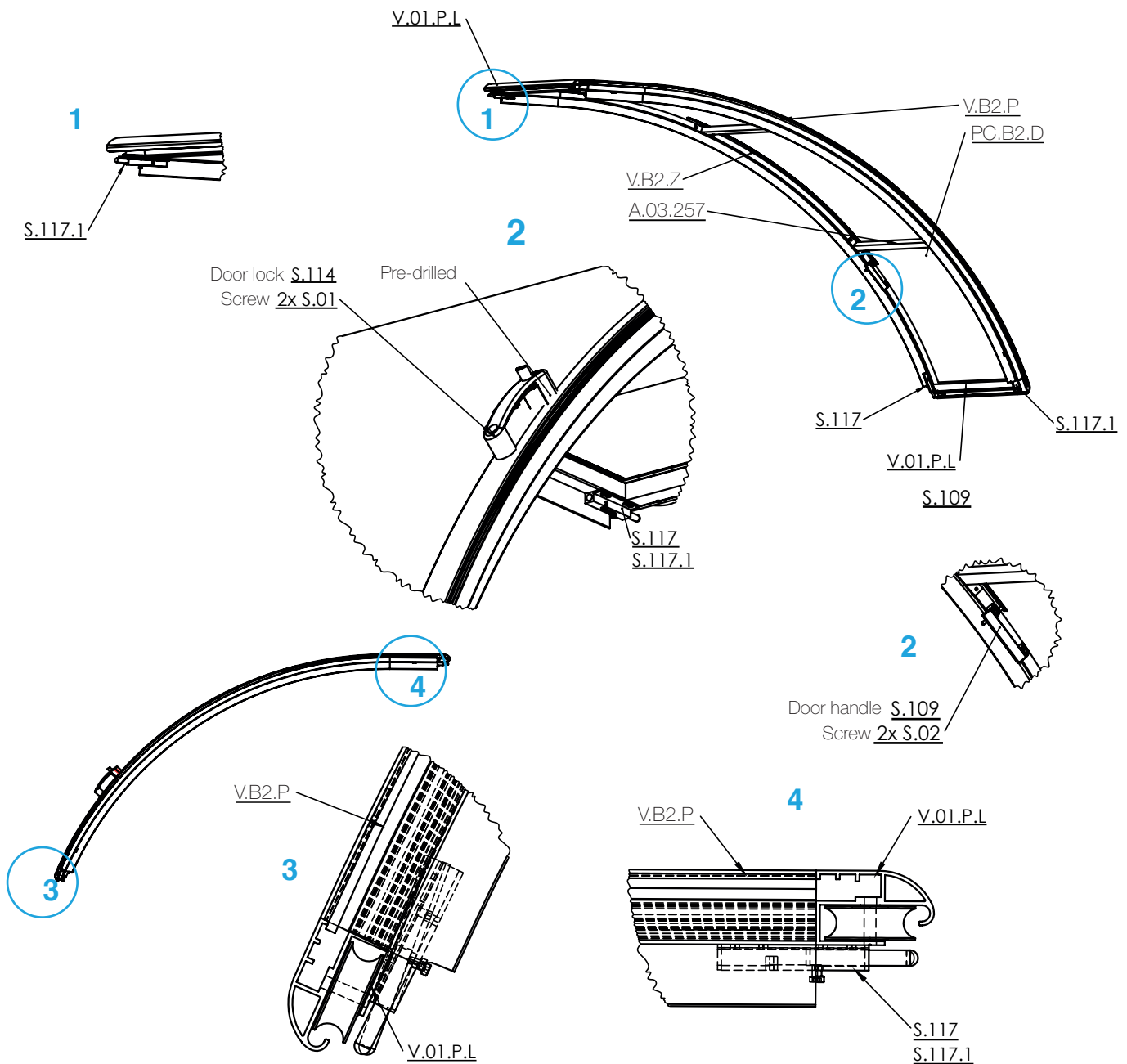
8 Entrance - side sliding door

8.2 Entrance - Side sliding door - Mounting workflow

1

V.B7.Z

X.XX.X
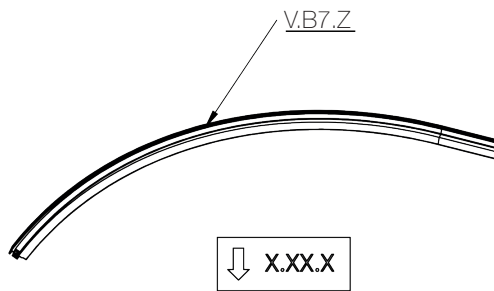
Position the back arch V.B7.Z on a flat surface in such a way as to avoid scratching and with the arrow pointing downwards.

2
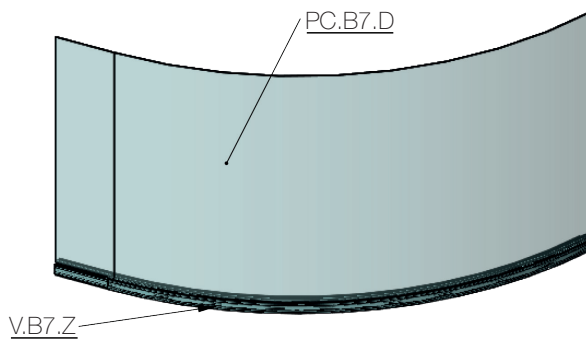
PC.B7.D

V.B7.Z

Insert polycarbonate PC.B7.D into the arch.

3
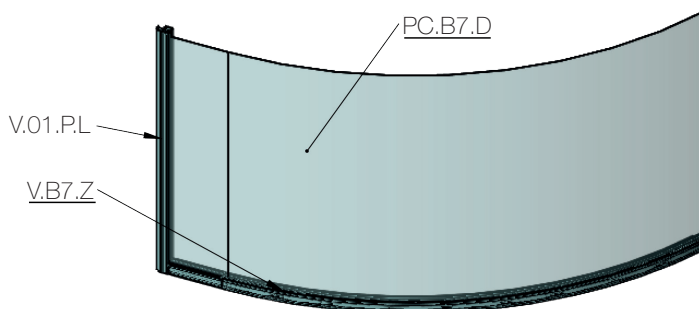
PC.B7.D

V.01.P.L

V.B7.Z

Insert the guide V.01.P.L and screw it with the back arch V.B7.Z.

4

PC.B7.D

V.01.P.L

V.01.P.L

V.B7.Z

2x S.01
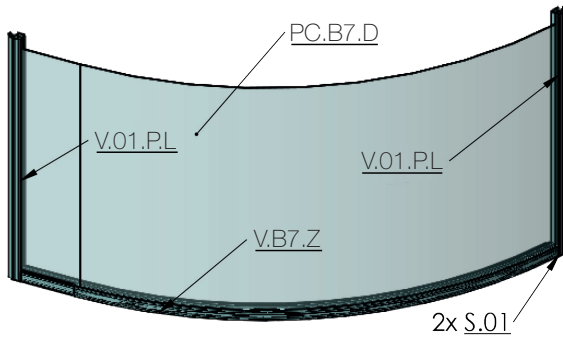
Insert the second guide
V.01.P.L and screw it with
the back arch V.B7.Z.

5

2x S.01

2x S.01

X.XX.X
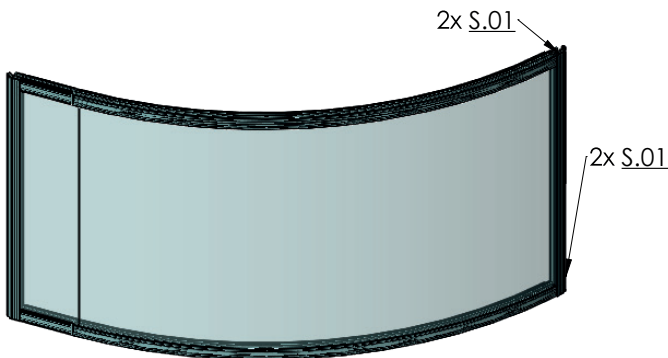
Insert the front arch V.B7.P
on PC.B7.D with the arrow
pointing downwards and
screw it with the guide
V.01.P.L.
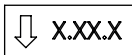
6
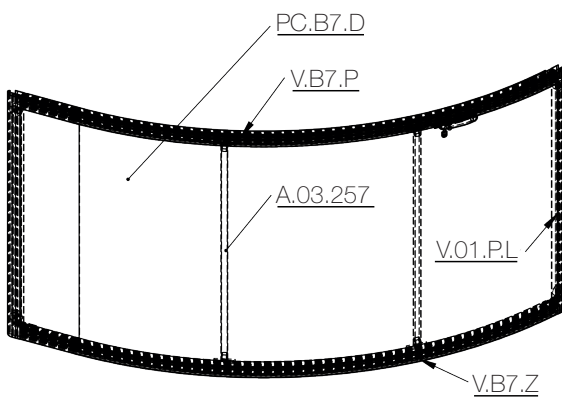
PC.B7.D

V.B7.P

A.03.257

V.01.P.L

V.B7.Z

Insert longitudinal
reinforcements A.03.257 and
rivet them with the arches.

7

V.B7.P
V.B7.Z
S.G.01

PC.B7.D
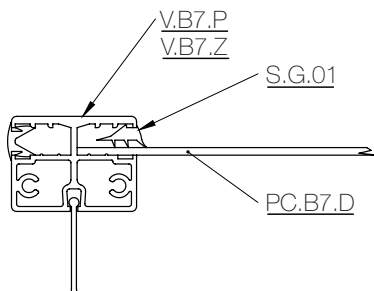
Insert the rubber
seal S.G.01 around
the perimeter of the
polycarbonate.

8

S.23

2x S.117
2x S.117.1
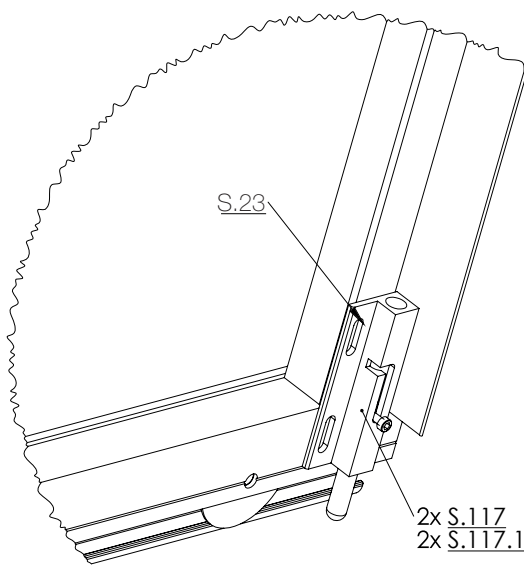
Pre-assembled.
Rivet with 4 pcs S.23.

NOTE
After mounting the entrance, attach
the plastic caps S.116 and S.140.

8.3 Entrance - Side sliding door - Installation

Entrance

3

1, 2
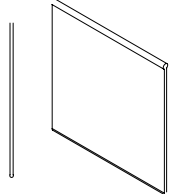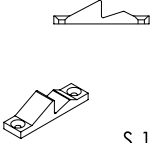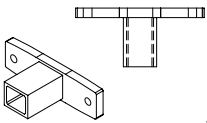
1

S.114

2

2
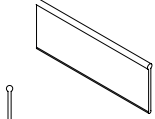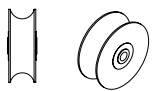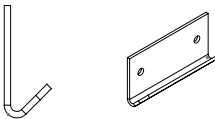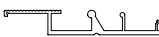
S.115
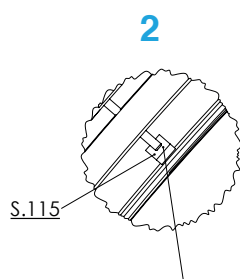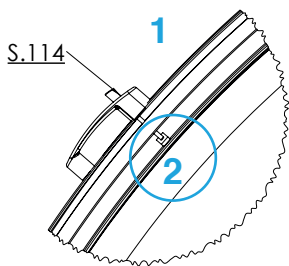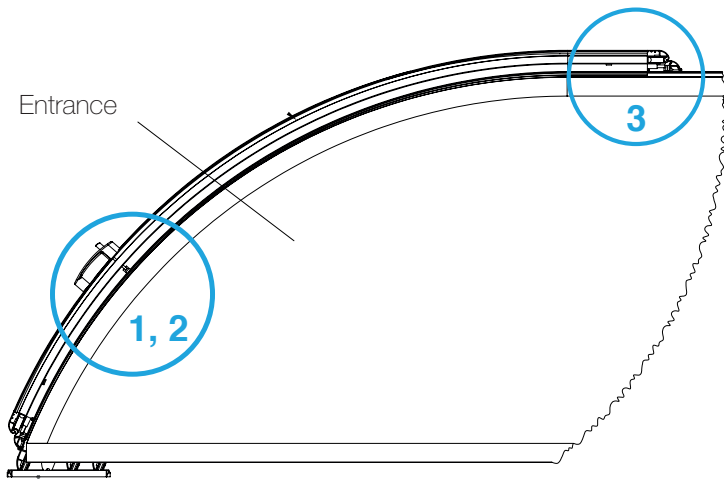
Trim the dowel pin to
fit within a maximum
tolerance of 1-2mm.

3

Guide V.01.P

D.022.257
D.013.257
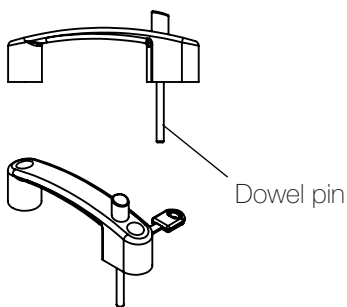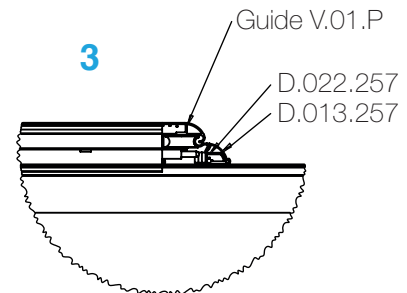
Dowel pin

After installing the door lock, adjust the dowel pin to
the correct height by cutting.

9 Spare parts

S.G.03

S.G.04

S.103

S.105

S.106

S.107

S.108

S115

D.008-

D.017-

D.012-

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