FSS-SYSTEM I

711 830 5000 ROD ø15 WEIGHT 300 gr/m1

SYSTEM LENGTH

CLEAR WIDTH

B

FABRIC / CLEAR WIDTH -6 cm

B

A

C

C

COVER LID

BEARING

A

NO SPRING TENSION IN MASTERCARRIER

ROD / CLEAR WIDTH -9 cm

***ALWAYS* CONNECT BOTH TRACKS WITH THE DRIVING SHAFT / LENGHT CLEAR WIDTH -10 cm**

FSS-SYSTEM I

A

B

C

STACK
HEIGTH

C

A

B

FABRIC POCKETS ø21mm

2,5 cm

FABRIC

VELCRO 2cm

FABRIC

VELCRO 2cm

FSS-SYSTEM I

SYSTEM LENGTH SPLIT STACK

X   X   X   X   X   X

VELCRO 2cm   FABRIC   5,5 cm   VELCRO 2cm

9 cm

Calculation example for rods repeat and stack heights for SPLIT stack

Example system length = 540 cm
Stack = split stack
Requested rod repeat = 40 cm
Pocket diameter = 2.1 cm

Number of rods = System length - 5,5 cm / rod repeat = (540 - 5,5) / 40 = 13,36 pcs
Rounded to **even** full numbers = 14 rods / 2 = **7 rods for every stack** + 1 rod for mastercarrier one side

Accurate rod repeat 'X' = 534,5 cm / 14 = 38,2 cm
For mastercarrier side Stack + 9 cm

Stack height = rods repeat / 2 + 2,5 cm system height + 1/2 pocket diameter
= 38,2 cm / 2 + 2.5 cm + 1 cm = 22,6 cm
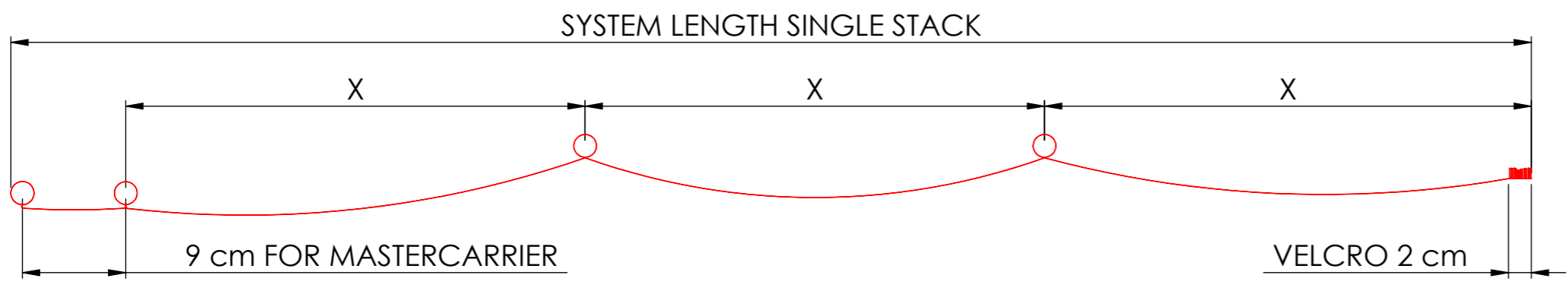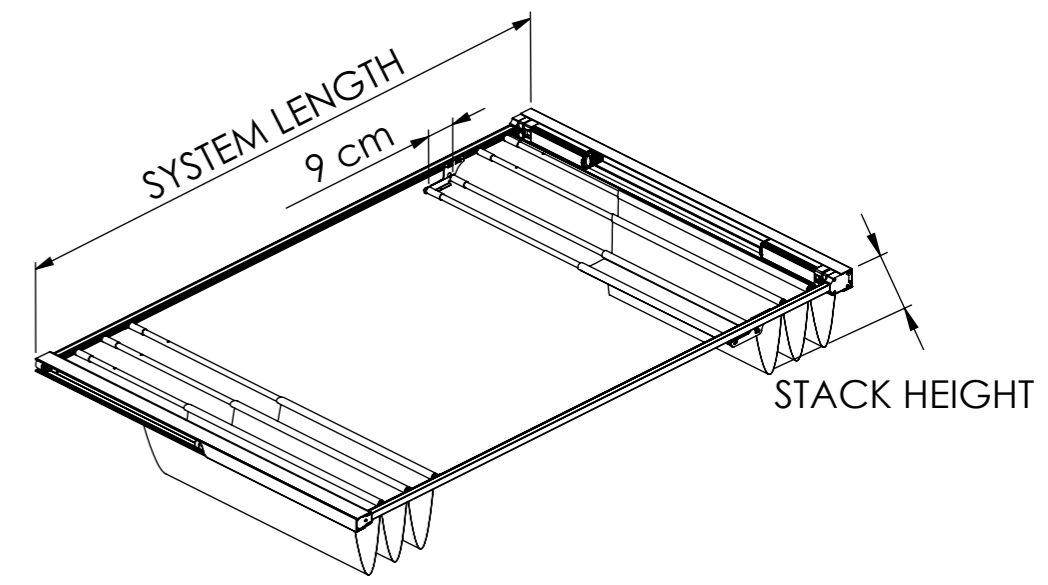
SYSTEM LENGTH

9 cm

STACK HEIGHT

SYSTEM LENGTH SINGLE STACK

X   X   X

9 cm FOR MASTERCARRIER   VELCRO 2 cm

Calculation example for rods repeat and stack heights for SINGLE stack

Example system length = 540 cm
Stack = single stack
Requested rod repeat = 40 cm
Pocket diameter = 2.1 cm

Number of rods = System length - 9 cm / rod repeat = (540 - 9) / 40 = 13,3 pcs
Rounded to **full** numbers = 13 rods

Accurate rod repeat 'X' = 531 cm / 13 = 40,8 cm
For mastercarrier + 9 cm

Stack height = rods repeat / 2 + 2,5 cm system height + 1/2 pocket diameter
= 40,8 cm / 2 + 2.5 cm + 1 cm = 23,9 cm

PAGE 3

FSS-SYSTEM II

711 830 5000 ROD ø15 WEIGHT 300 gr/m1
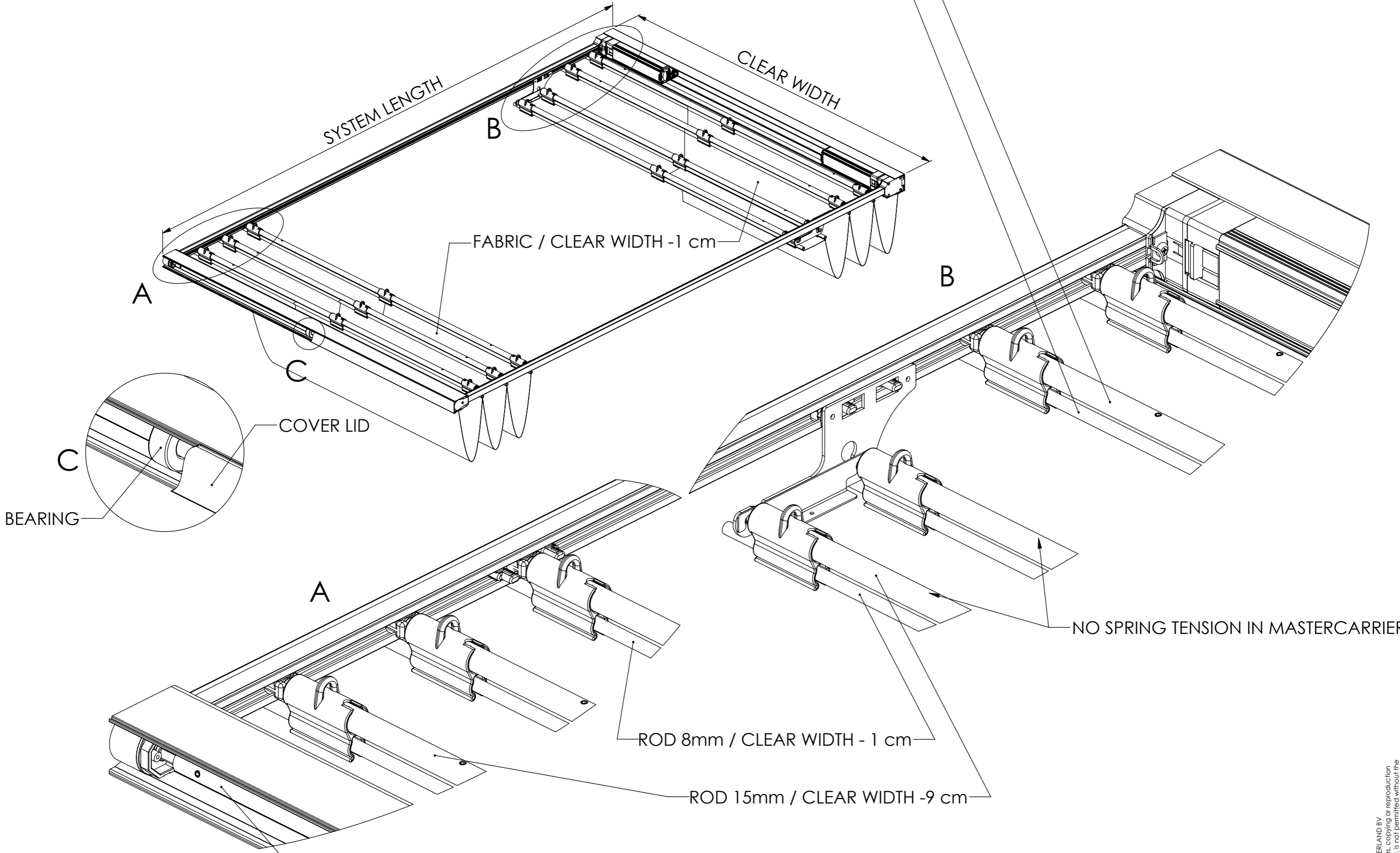**713 540 1600 ROD ø8 WEIGHT 100 gr/m1**

SYSTEM LENGTH

CLEAR WIDTH

B

A

C

FABRIC / CLEAR WIDTH -1 cm

B

COVER LID

C

BEARING

A

NO SPRING TENSION IN MASTERCARRIER

ROD 8mm / CLEAR WIDTH - 1 cm

ROD 15mm / CLEAR WIDTH -9 cm

ALWAYS CONNECT BOTH TRACKS WITH THE
DRIVING SHAFT / LENGTH CLEAR WIDTH -10 cm

FSS-SYSTEM II

A   B   C

STACK HEIGTH

C

A

B

4,5 cm

FABRIC POCKETS ø12 mm — ROD 8mm

FABRIC

VELCRO 2 cm

FABRIC

VELCRO 2cm

FSS-SYSTEM II

SYSTEM LENGTH SPLIT STACK

X   X   X   X   X   X

VELCRO 2 cm   FABRIC   5,5 cm   VELCRO 2 cm
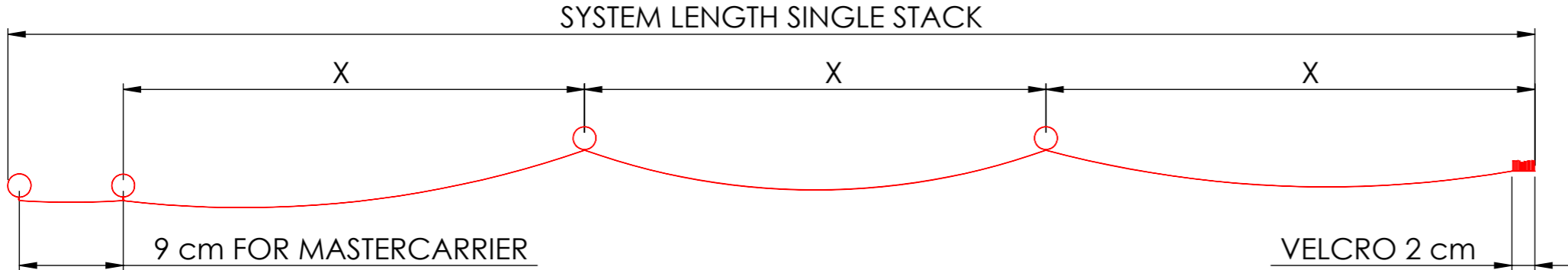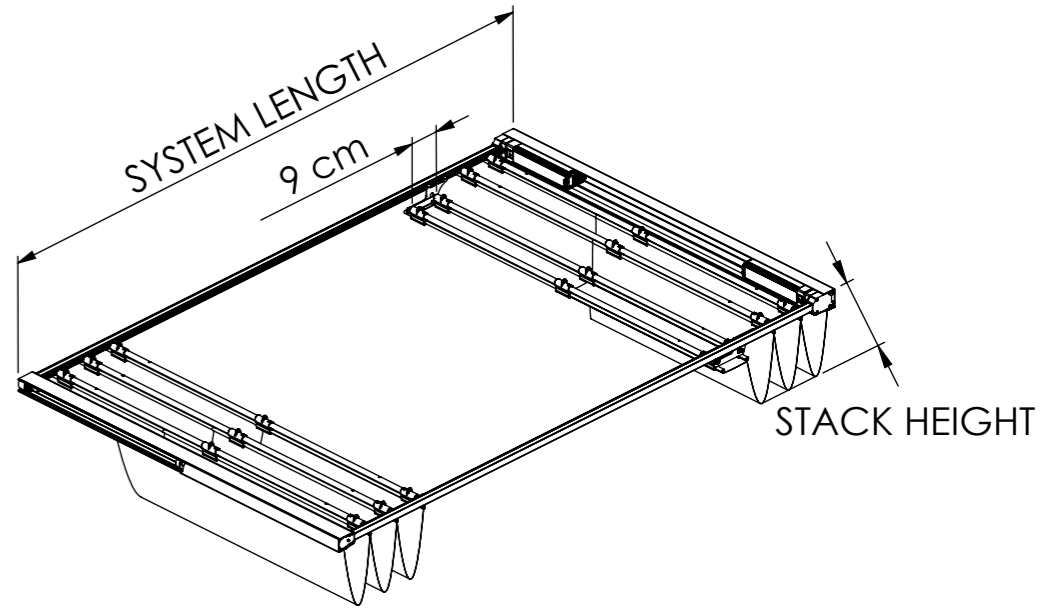
9 cm

SYSTEM LENGTH

9 cm

STACK HEIGHT

Calculation example for rods repeat and stack heights for SPLIT stack

Example system length = 540 cm
Stack = split stack
Requested rod repeat = 40 cm
Pocket diameter = 1,2 cm

Number of rods = System length - 5,5 cm / rod repeat = (540 - 5,5) / 40 = 13,36 pcs
Rounded to **even** full numbers = 14 rods / 2 = **7 rods for every stack** + 1 rod for mastercarrier one side

Accurate rod repeat 'X' = 534,5 cm / 14 = 38,2 cm
For mastercarrier side Stack + 9 cm

Stack height = rods repeat / 2 + 4,5 cm system height + 1/2 pocket diameter
= 38,2 cm / 2 + 4.5 cm + 0.6 cm = 24,2 cm

SYSTEM LENGTH SINGLE STACK

X   X   X

9 cm FOR MASTERCARRIER   VELCRO 2 cm

Calculation example for rods repeat and stack heights for SINGLE stack

Example system length = 540 cm
Stack = single stack
Requested rod repeat = 40 cm
Pocket diameter = 1.2 cm

Number of rods = System length - 9 cm / rod repeat = (540 - 9) / 40 = 13,3 pcs
Rounded to **full** numbers = 13 rods

Accurate rod repeat 'X' = 531 cm / 13 = 40,8 cm
For mastercarrier + 9 cm

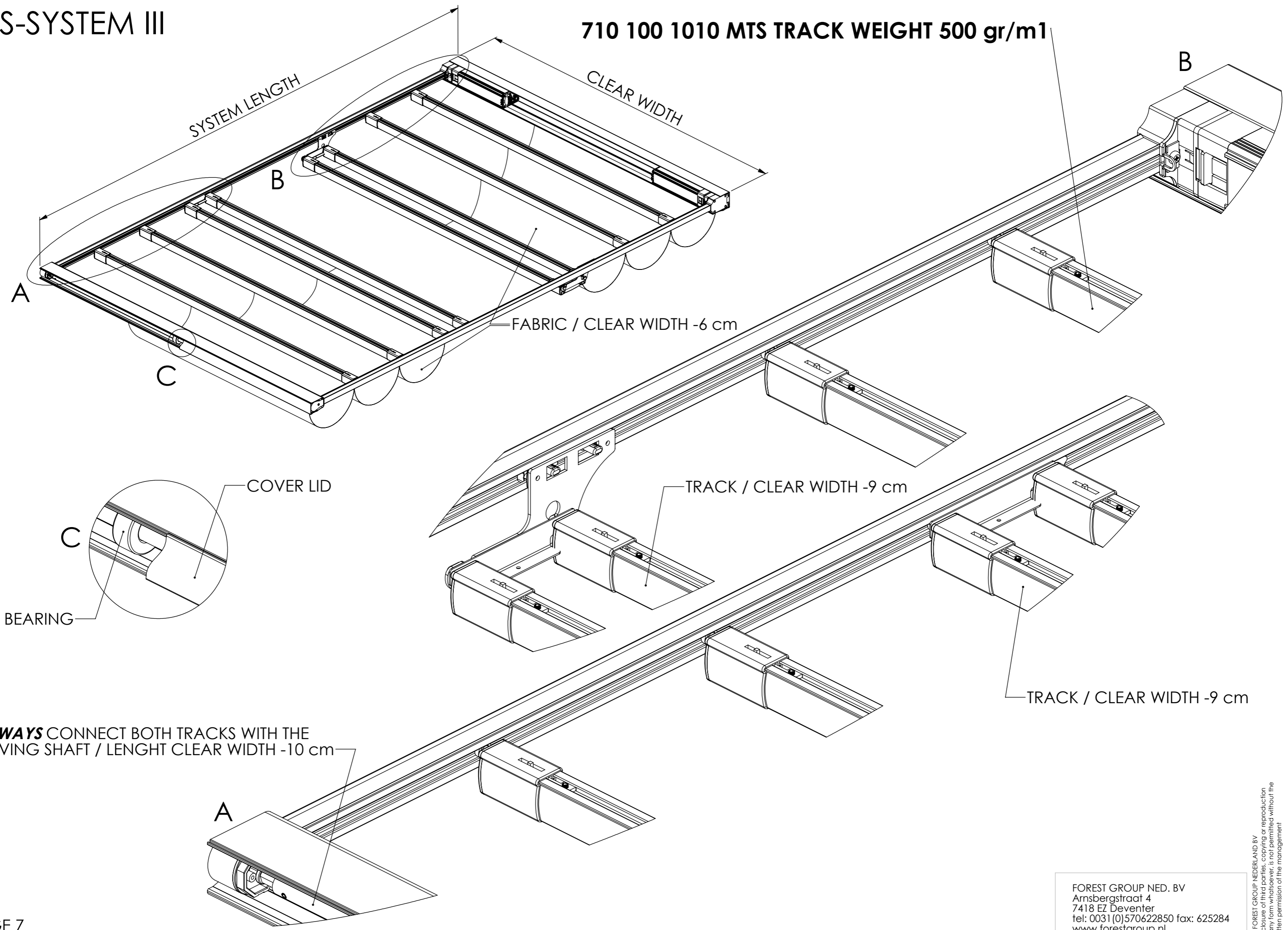Stack height = rods repeat / 2 + 4,5 cm system height + 1/2 pocket diameter
= 40,8 cm / 2 + 4.5 cm + 0,6 cm = 25,5 cm

PAGE 6

FSS-SYSTEM III

710 100 1010 MTS TRACK WEIGHT 500 gr/m1

SYSTEM LENGTH

CLEAR WIDTH

B

A

B

C

FABRIC / CLEAR WIDTH -6 cm

COVER LID

C

BEARING

TRACK / CLEAR WIDTH -9 cm

TRACK / CLEAR WIDTH -9 cm

ALWAYS CONNECT BOTH TRACKS WITH THE
DRIVING SHAFT / LENGHT CLEAR WIDTH -10 cm

A

FSS-SYSTEM III

A

B

C

STACK
HEIGTH

A

FABRIC POCKETS ⌀12 mm

B

C

FABRIC

VELCRO 2 cm

4,5 cm

ROD ⌀8 mm / CLEAR WIDTH -6 cm

FABRIC

VELCRO 2 cm

710 100 1010 MTS TRACK WEIGHT 500 gr/m1

713 540 1600 ROD ⌀8 WEIGHT 100 gr/m1

FSS-SYSTEM III

SYSTEM LENGTH FOR SPLIT STACK

X first stack

Y = X - 9 cm

X X X X X

VELCRO 2 cm

5,5 cm

9 cm

VELCRO 2 cm

Calculation example for rods repeat and stack heights for SPLIT stack

Example system length = 540 cm
Stack = split stack
Requested rod repeat = 40 cm
Pocket diameter =1,2 cm

Number of rods = System length - 5,5 cm / rod repeat = (540 - 5,5) / 40 = 13,36 pcs
Rounded to **even** full numbers = 14 rods / 2 = **7 rods for every stack** + 1 rod for mastercarrier both sides

Accurate rod repeat 'X' = 534,5 cm / 14 = 38.2 cm
For mastercarrier OVERLAP side stack + 9 cm
For mastercarrier UNDERLAP (IF APPLIED) _first stack_ **Y=X-9cm**

Stack height = rods repeat / 2 + 4,5 cm system height + 1/2 pocket diameter
= 38,2 cm / 2 + 4,5 cm + 0,6 cm = 24,2 cm

SYSTEM LENGTH

9 cm

9 cm

9 cm

STACK HEIGHT

SYSTEM LENGTH SINGLE STACK

X X X

9 cm

VELCRO 2 cm

Calculation example for rods repeat and stack heights for SINGLE stack

Example system length = 540 cm
Stack = single stack
Requested rod repeat = 40 cm
Pocket diameter = 1,2 cm

Number of rods = System length - 9 cm / rod repeat = (540 - 9) / 40 = 13,3 pcs
Rounded to **full** numbers = 13 rods + 1 rod for mastercarrier

Accurate rod repeat 'X' = 531 cm / 13 = 40,8 cm
For mastercarrier + 9 cm

Stack height = rods repeat / 2 + 4,5 cm system height + 1/2 pocket diameter
= 40,8 cm / 2 + 4,5 cm + 0,6 cm = 25,5 cm

FSS-SYSTEM IV

713 540 1600 ROD ø8 WEIGHT 100 gr/m1

710 100 1010 MTS TRACK WEIGHT 500 gr/m1

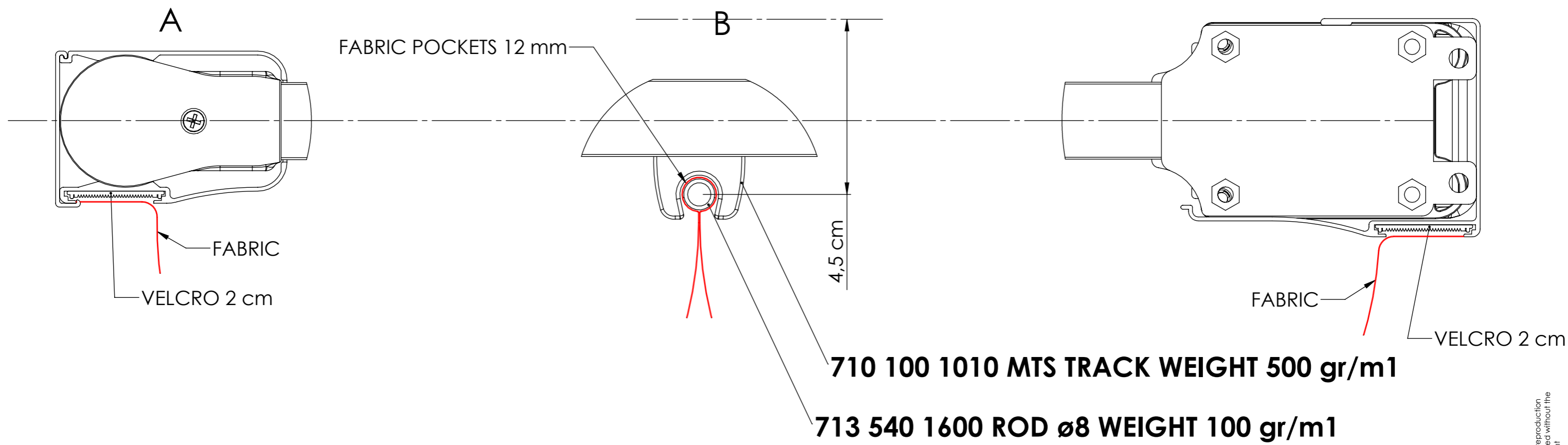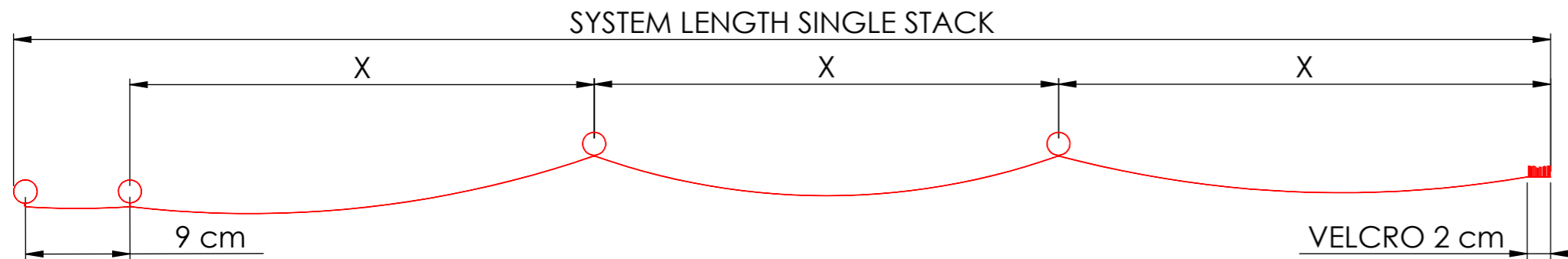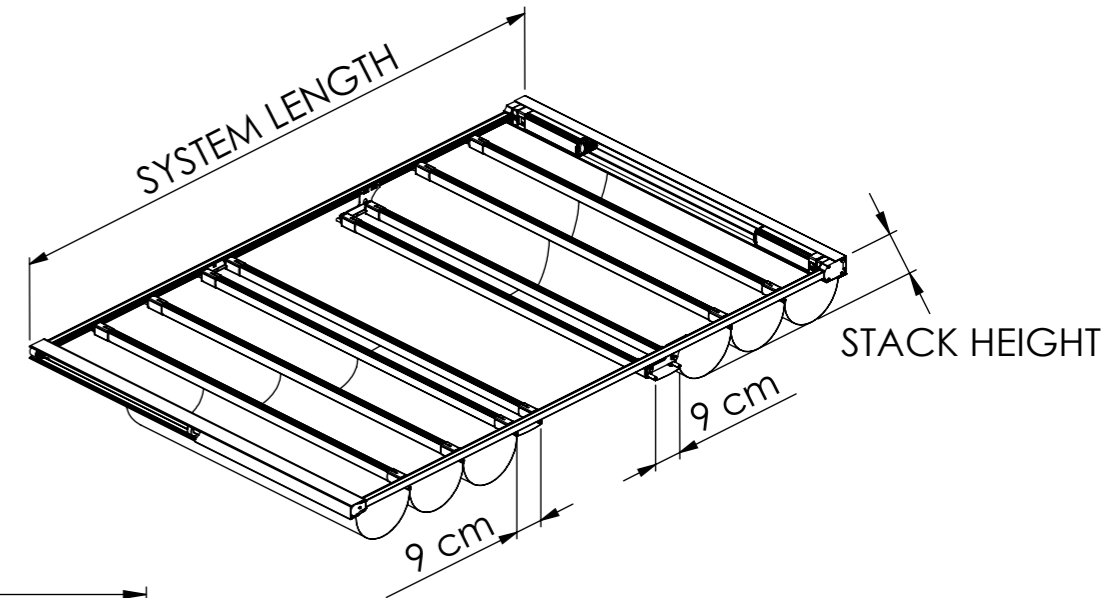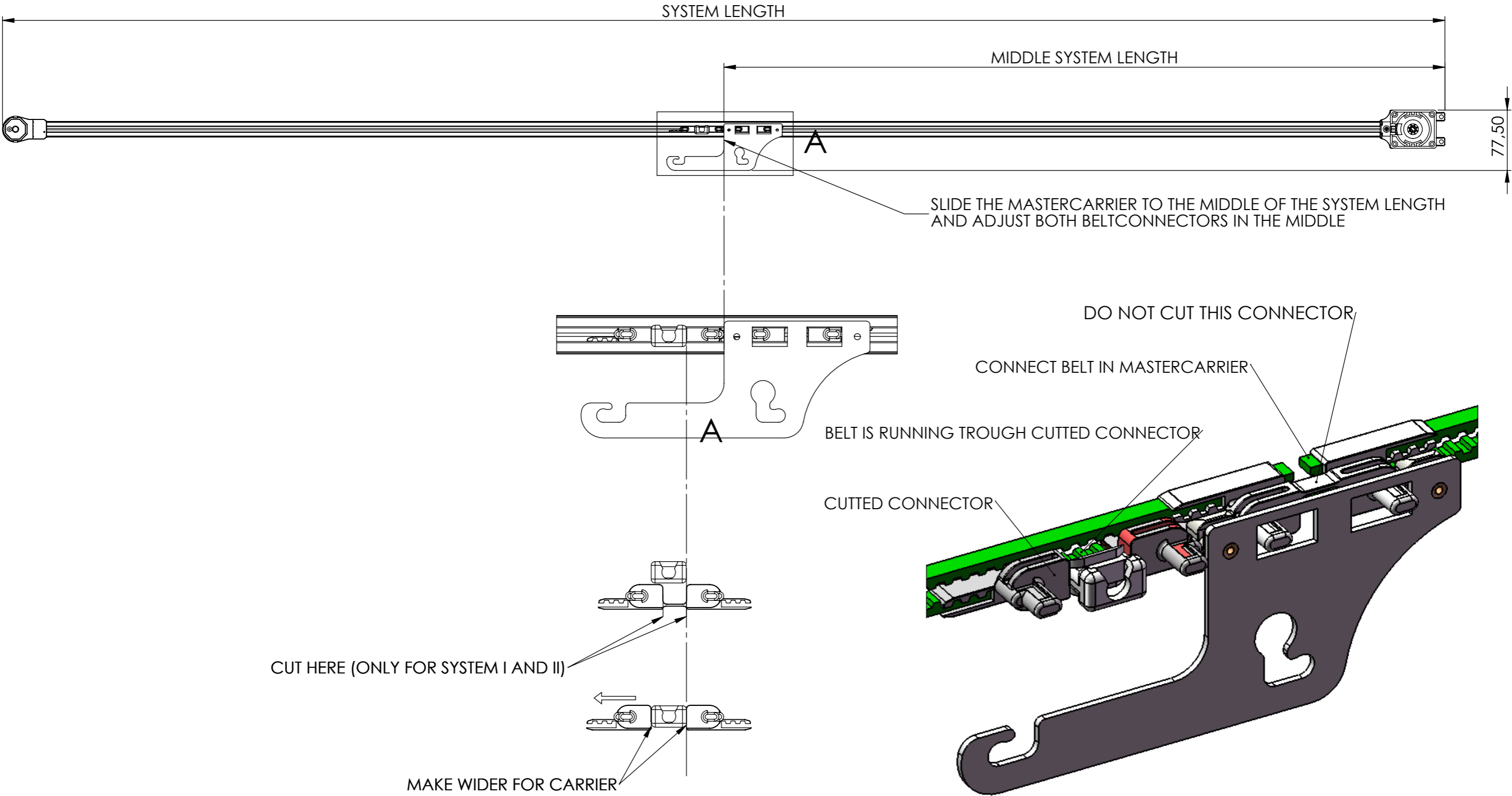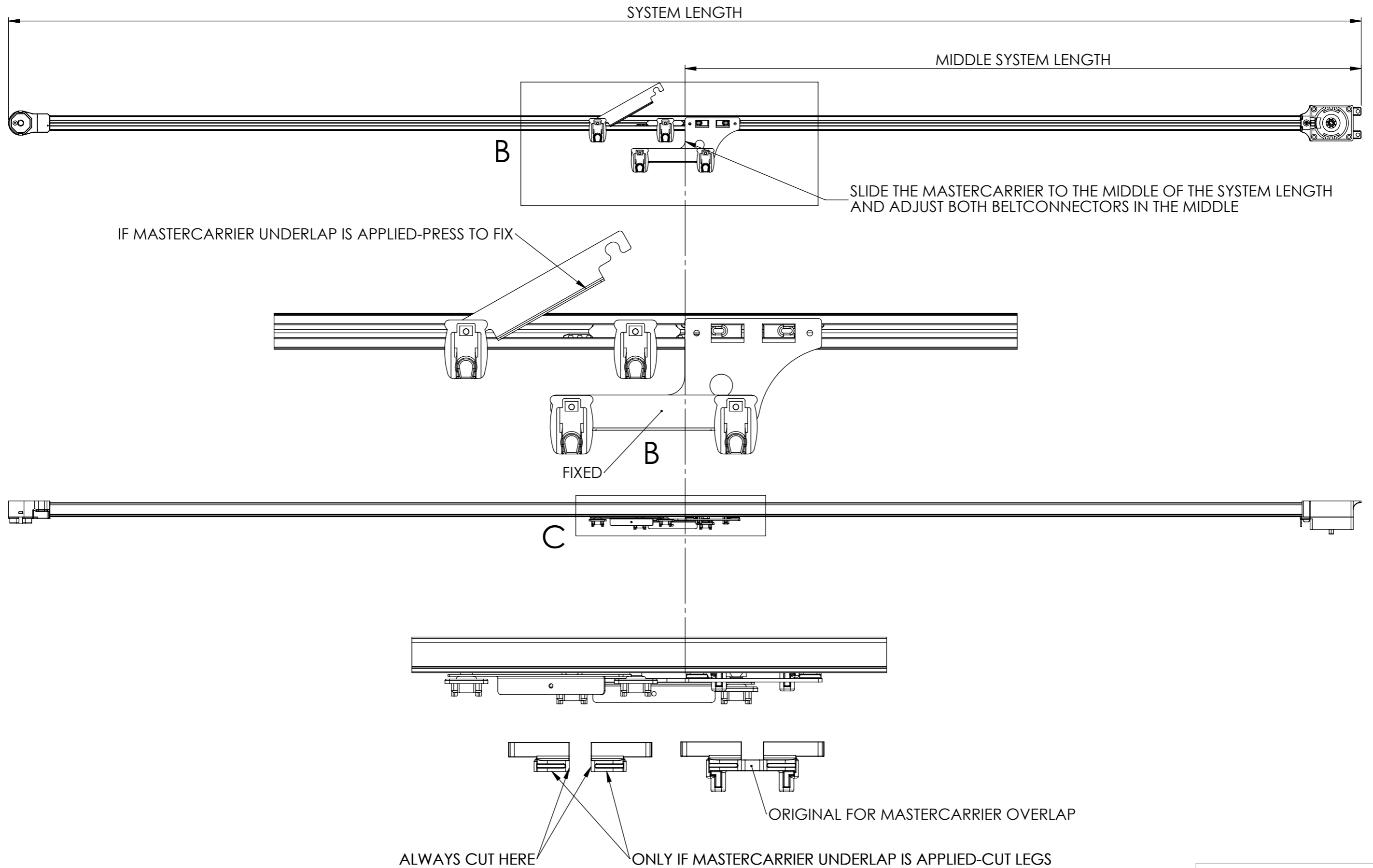SYSTEM LENGTH

CLEAR WIDTH

A

B

B

COVER LID

BEARING
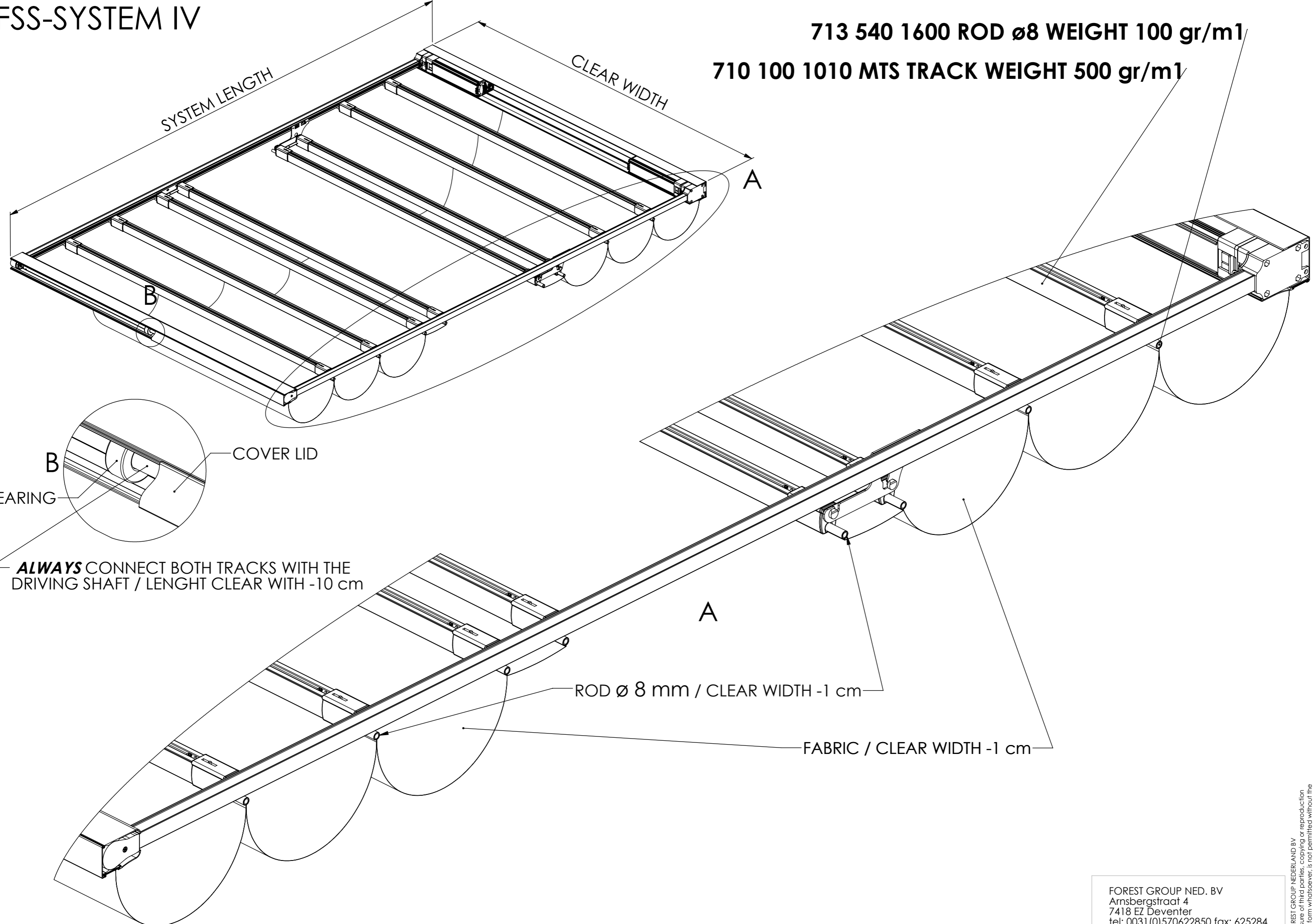
ALWAYS CONNECT BOTH TRACKS WITH THE DRIVING SHAFT / LENGHT CLEAR WITH -10 cm

A

ROD ø 8 mm / CLEAR WIDTH -1 cm

FABRIC / CLEAR WIDTH -1 cm

FSS-SYSTEM IV

A

C

B

C

C

STACK
HEIGTH

A

FABRIC POCKETS 12 mm

B

4,5 cm

FABRIC

VELCRO 2 cm

FABRIC

VELCRO 2 cm

710 100 1010 MTS TRACK WEIGHT 500 gr/m1

713 540 1600 ROD ø8 WEIGHT 100 gr/m1

FSS-SYSTEM IV

X first stack

Y = X - 9 cm

X   X   X   X   X

VELCRO 2 cm

5,5 cm

9 cm

VELCRO 2 cm

Calculation example for rods repeat and stack heights for SPLIT stack

Example system length = 540 cm
Stack = split stack
Requested rod repeat = 40 cm
Pocket diameter =1,2 cm

Number of rods = System length - 5,5 cm / rod repeat = (540 - 5,5) / 40 = 13,36 pcs
Rounded to **even** full numbers = 14 rods / 2 = **7 rods for every stack** + 1 rod for mastercarrier both sides

Accurate rod repeat 'X' = 534,5 cm / 14 = 38,2 cm
For mastercarrier OVERLAP side stack + 9 cm
For mastercarrier UNDERLAP (IF APPLIED) _first stack_ **Y=X-9cm**

Stack height = rods repeat / 2 + 4,5 cm system height + 1/2 pocket diameter
= 38,2 cm / 2 + 4,5 cm + 0,6 cm = 24,2 cm

SYSTEM LENGTH

STACK HEIGHT

9 cm

9 cm

SYSTEM LENGTH SINGLE STACK

X   X   X

9 cm

VELCRO 2 cm

Calculation example for rods repeat and stack heights for SINGLE stack

Example system length = 540 cm
Stack = single stack
Requested rod repeat = 40 cm
Pocket diameter = 1,2 cm

Number of rods = System length - 9 cm / rod repeat = (540 - 9) / 40 = 13,3 pcs
Rounded to **full** numbers = 13 rods

Accurate rod repeat 'X' = 531 cm / 13 = 40,8 cm
For mastercarrier + 9 cm

Stack height = rods repeat / 2 + 4,5 cm system height + 1/2 pocket diameter
= 40,8 cm / 2 + 4,5 cm + 0,6 cm = 25,5 cm

ASSEMBLY FMS TRACK *SPLIT STACK* for SYSTEM I and II

SYSTEM LENGTH

MIDDLE SYSTEM LENGTH

77.50

A

SLIDE THE MASTERCARRIER TO THE MIDDLE OF THE SYSTEM LENGTH
AND ADJUST BOTH BELTCONNECTORS IN THE MIDDLE

A

DO NOT CUT THIS CONNECTOR

CONNECT BELT IN MASTERCARRIER

BELT IS RUNNING TROUGH CUTTED CONNECTOR

CUTTED CONNECTOR

CUT HERE (ONLY FOR SYSTEM I AND II)

MAKE WIDER FOR CARRIER

SYSTEM LENGTH

MIDDLE SYSTEM LENGTH

B

SLIDE THE MASTERCARRIER TO THE MIDDLE OF THE SYSTEM LENGTH
AND ADJUST BOTH BELTCONNECTORS IN THE MIDDLE

IF MASTERCARRIER UNDERLAP IS APPLIED-PRESS TO FIX

FIXED

B

C

ORIGINAL FOR MASTERCARRIER OVERLAP

ALWAYS CUT HERE

ONLY IF MASTERCARRIER UNDERLAP IS APPLIED-CUT LEGS

Forest Skylight Systems

For the assembly of *SINGLE STACK* and *SPLIT STACK* Skylight System

The dimension for the cuttings and calculation for the number of rods are described on the technical drawing.

1 Assemble the FMS tracks.
   The 2 tracks for a Skylight System should be assembled in *MIRROR IMAGE*.

2 Put the FSS Click Carriers in the right quantity in both tracks.

3 Put the Shuttle motors on the track and set the limits, with one motor you have to change the direction of the motor. (see Manual)

4 Make sure that both mastercarriers are in exactly the same position on the tracks.

5 Connect both motors with the tandem cable in port 2 of the motors. The motor who is not changed in direction is the Master motor.
   Now follow the directions in the Manual. (motor setup tandem)

6 Connect the receiver to the master motor in port 1 and connect with the remote. (See Manual)

7 Test if both track run synchronous, If not disconnect the slave motor from the track and put the mastercarrier in the right position.

8 Disable touch control on the master motor, the slave is than also automatically without touch control. (See Manual)
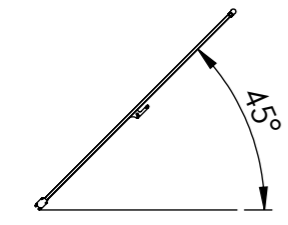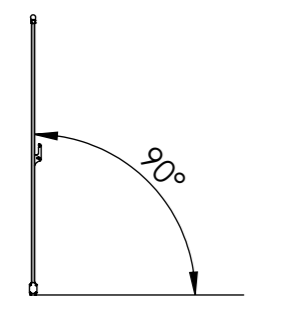
9 If you now want to disconnect the motors for transport, you have to mark the track and mastercarriers, so that you always keep the same position that you have set.

10 When it is necessary to mount the "Motor Cover Profile" first, than you have to mount the track together with the motors.
   If not you can first mount the track and than put the motor on the marked position.

11 *ALWAYS* connect both tracks with the drivingshaft in the returnpulley's

FSS-SYSTEM

DATA SHEET SYSTEM I-II-III-IV

TOTAL WEIGHT INCLUDES BALEEN PROFILES AND FABRICS

710 100 1010 MTS TRACK 500 gr/m1
711 830 5000 ROD 15mm 300 gr/m1
713 540 1600 ROD 8mm 100 gr/m1

FSS SYSTEM I-II-III-IV	SHUTTLE SINGLE	SHUTTLE TANDEM
	35 kg	50 kg
FSS SYSTEM I and II		
15°	15 kg	25 kg
45°	7 kg	10 kg
90°	4 kg	7 kg

FSS SYSTEM I and II

MAX 14m

MAX 2,2m

FSS SYSTEM III and IV

MAX 14m

MAX 3,2m

FSS SYSTEM I and II

MAX 7m

MAX 2,2m

FSS SYSTEM III and IV

MAX 7m

MAX 3,2m
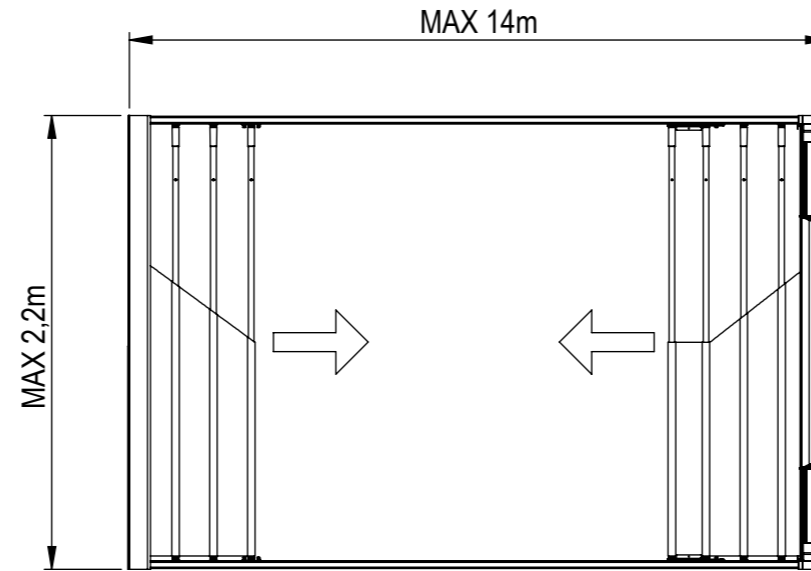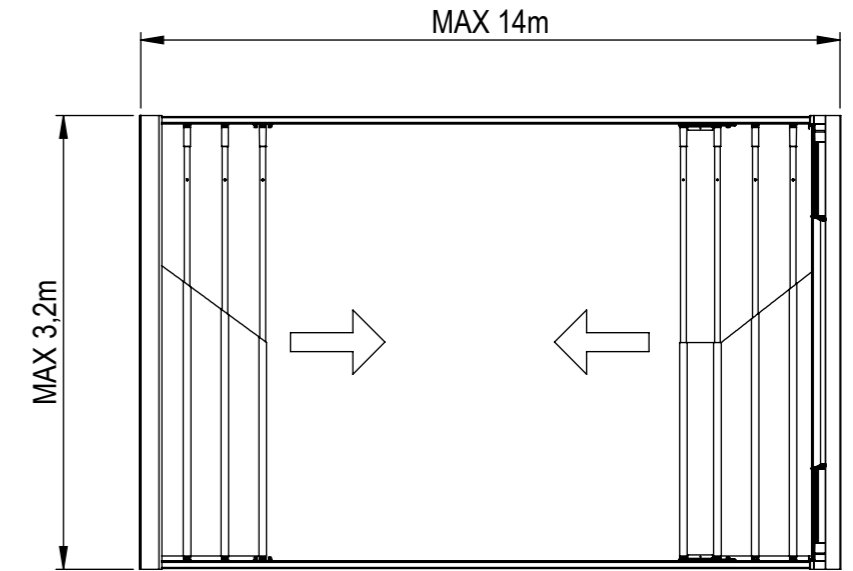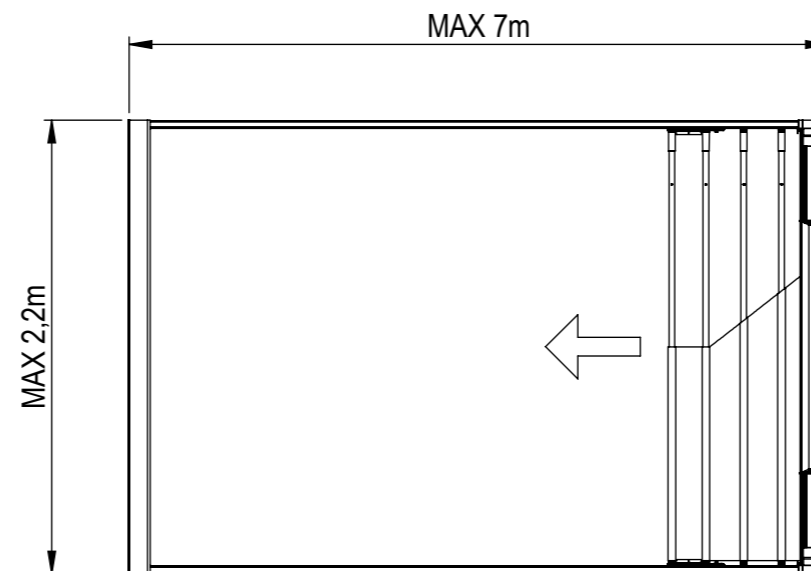
PARTS OVERVIEW SYSTEM I-II-III-IV
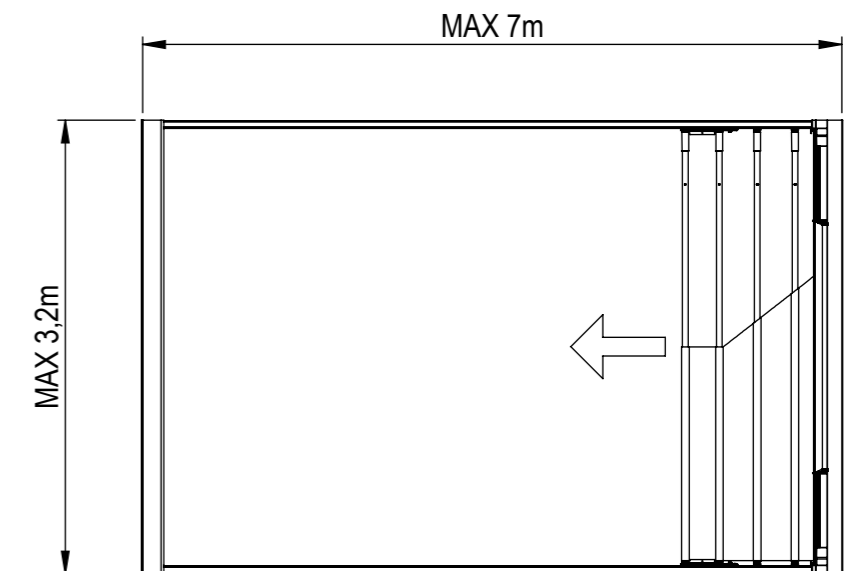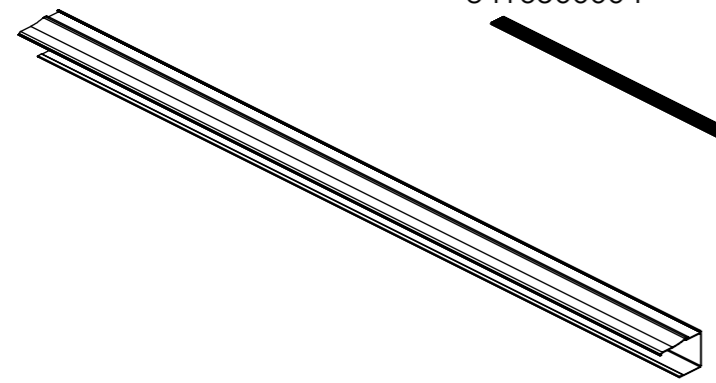
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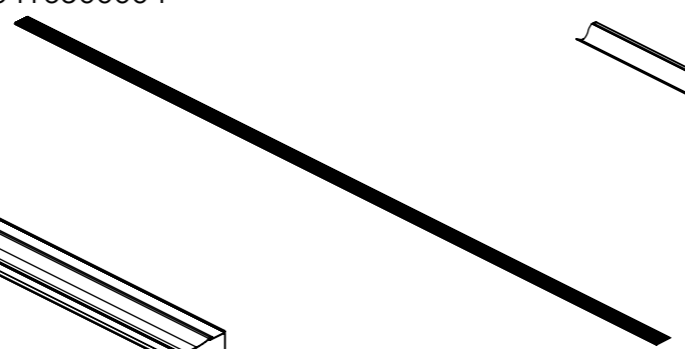
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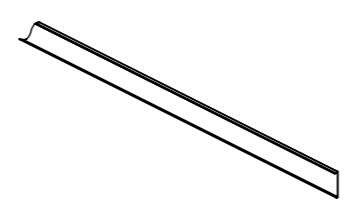
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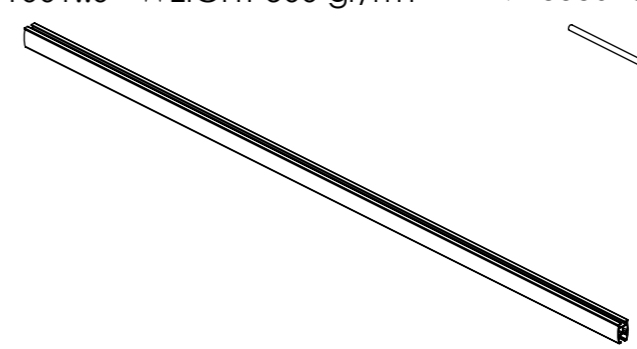
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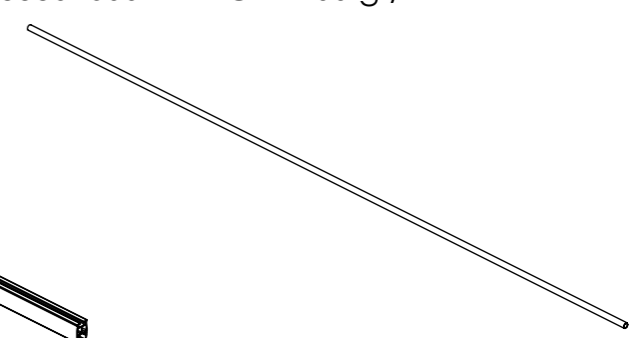
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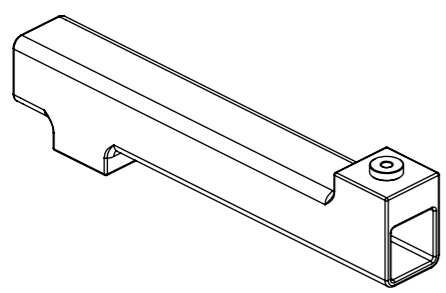
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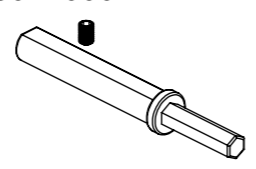
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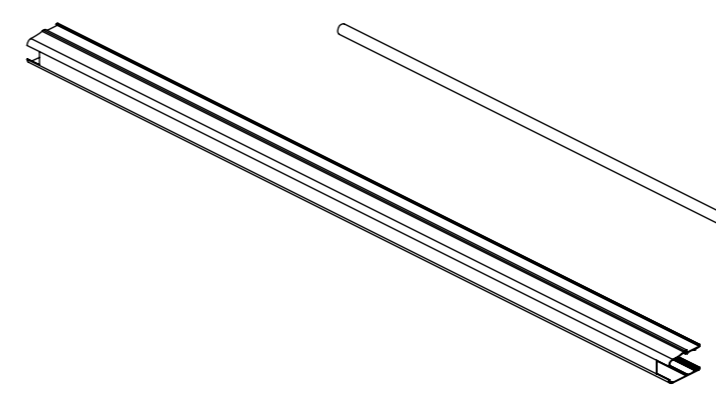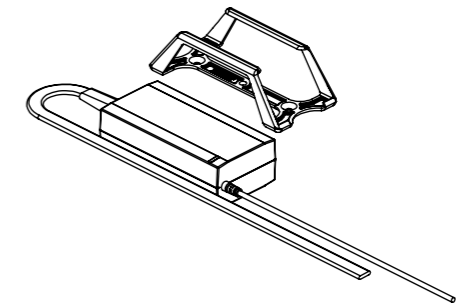
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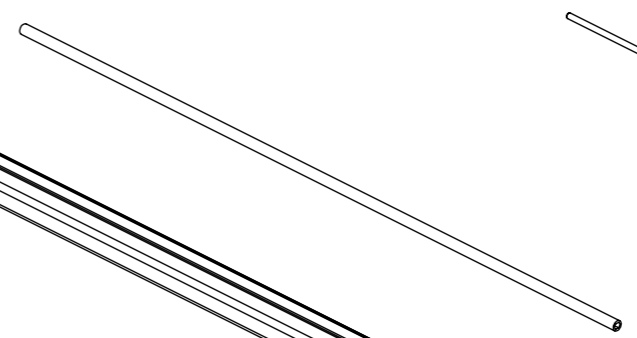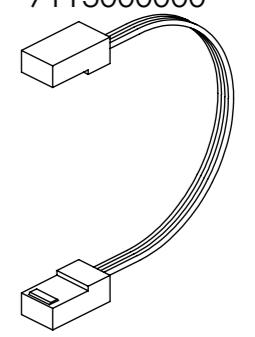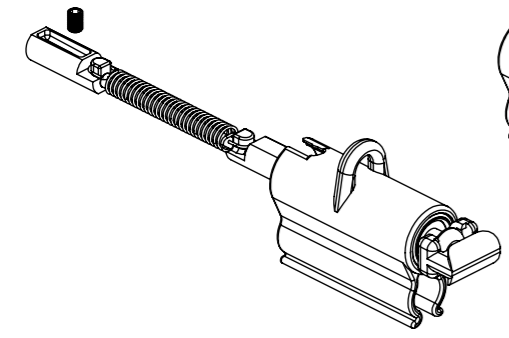
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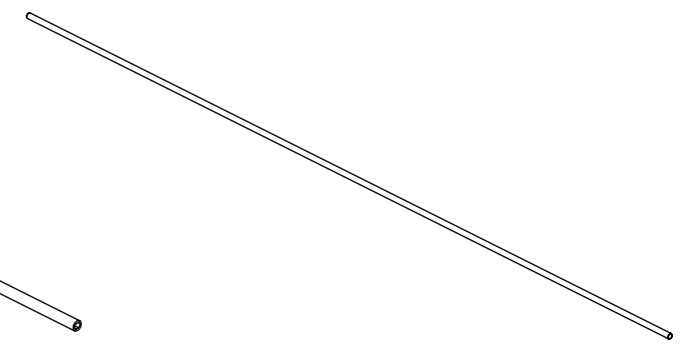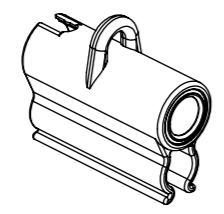
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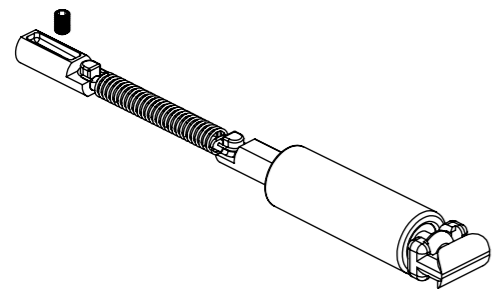
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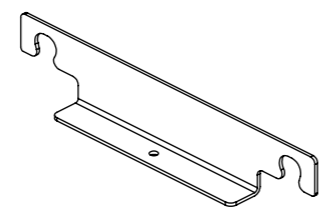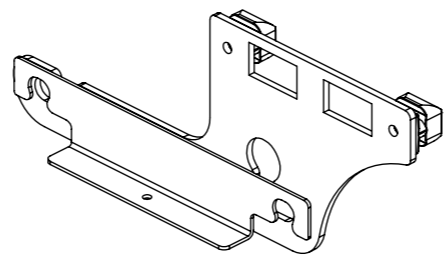
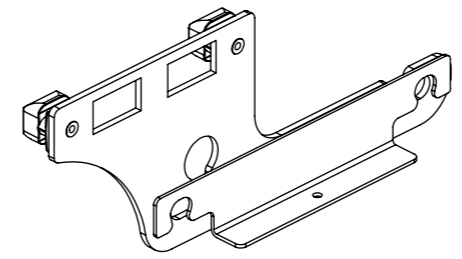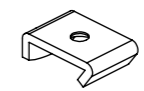7140000000
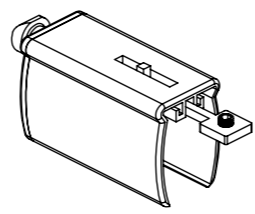
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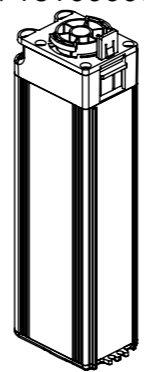
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