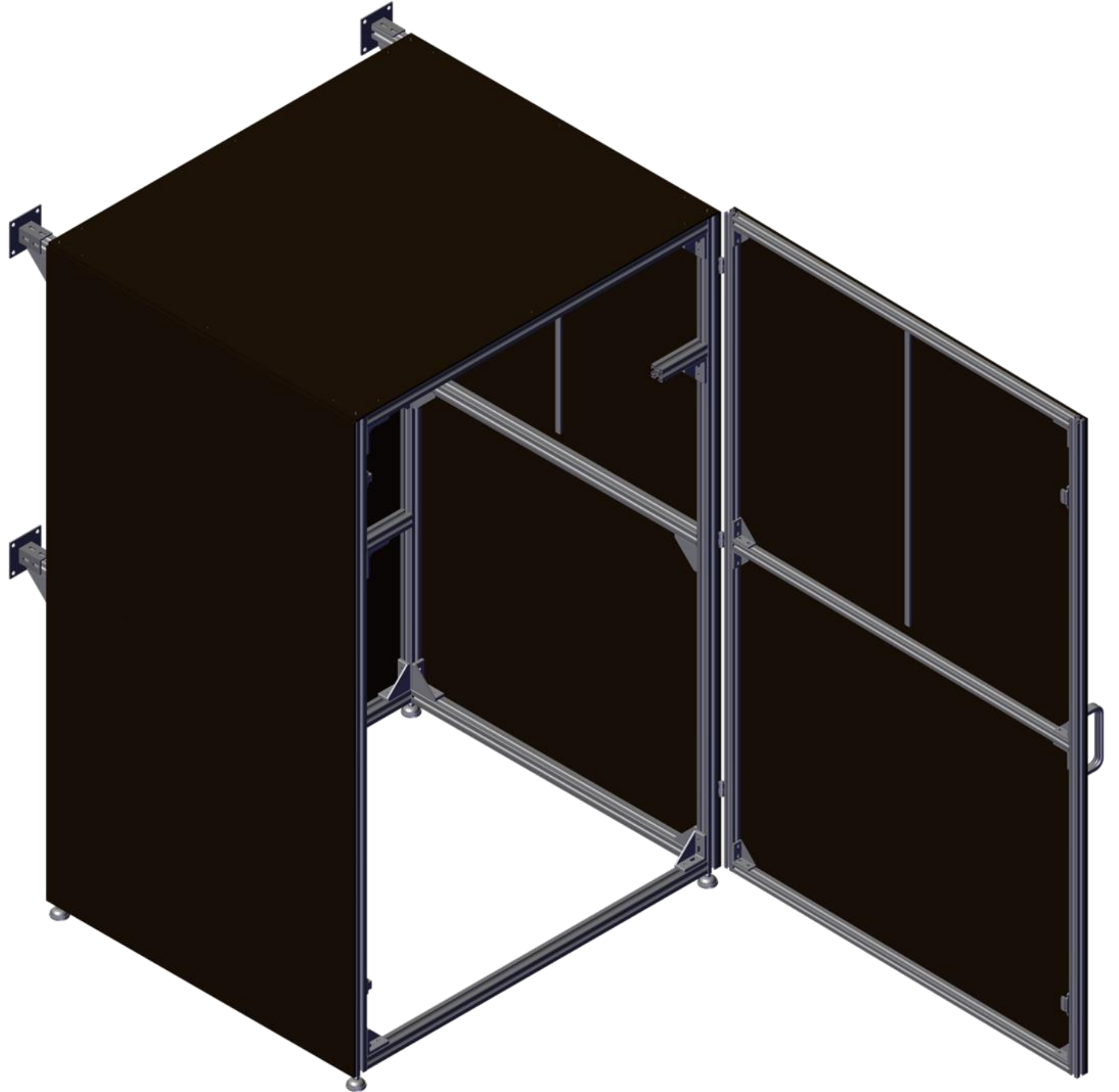




ROBOTICS FOR MICROFARMS

**BOM & Assembly Instructions**

**Plant-imager Box**

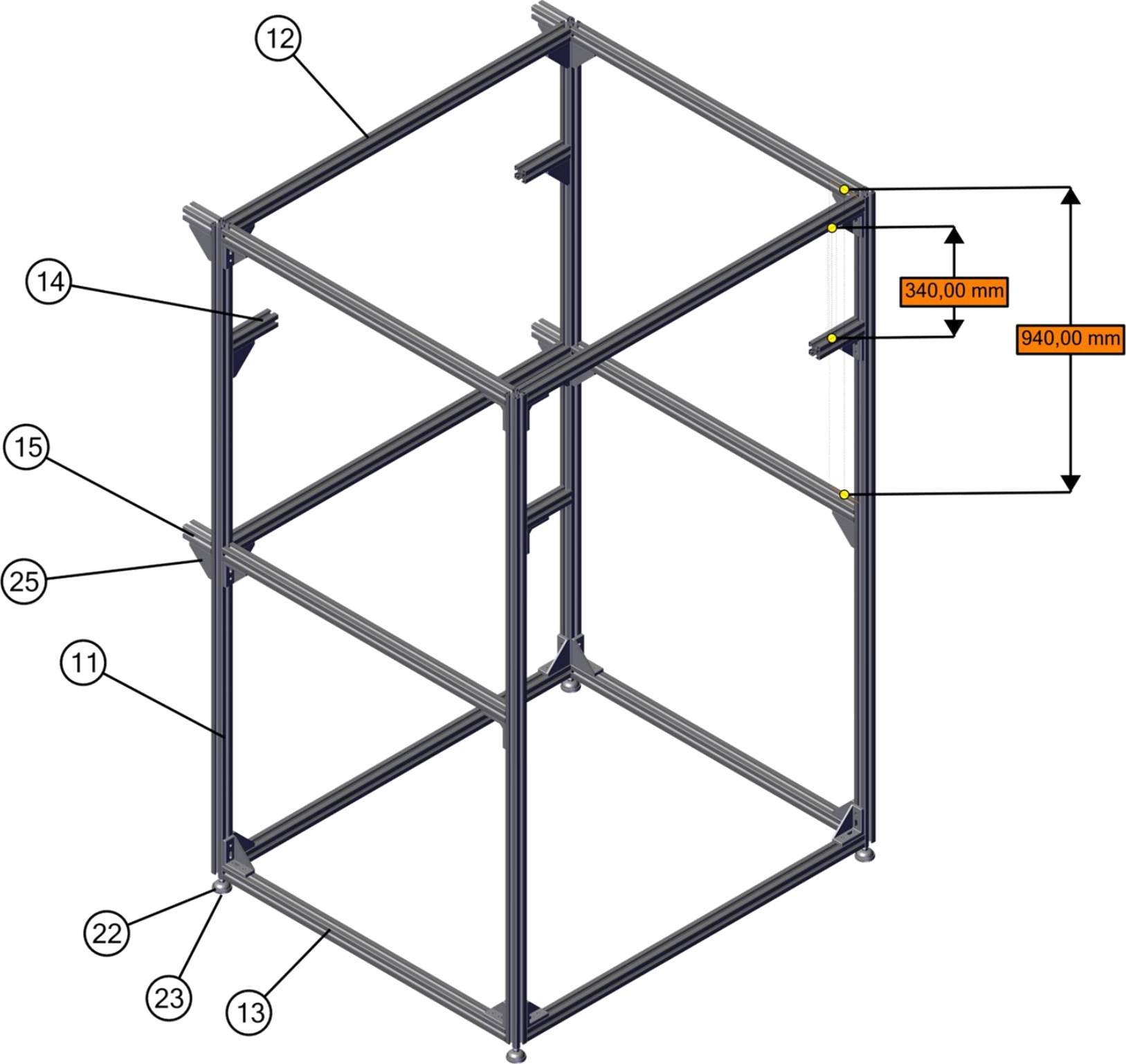


BOM

ID	Name	Qty	Off the shelf / Custom	Material	Manufactureur	Serial number
1	Planche 1	1	Custom	Wood		
2	Planche 2	1	Custom	Wood		
3	Planche 3	1	Custom	Wood		
4	Planche 4	1	Custom	Wood		
5	Planche 5	1	Custom	Wood		
6	Magnet bracket	2	Custom	PLA		
7	LED Strip U Channel	4	Off the shelf			
8	LED Ribbon	1	Off the shelf			
9	LED Dimmer	1	Off the shelf			
10	Convertisseur 24-12V	1	Off the shelf			
11	Profil 40x40x2000	4	Off the shelf		Bosch Rexroth	3842993120
12	Profil 40x40x1200	5	Off the shelf			
13	Profil 40x40x1006	6	Off the shelf			
14	Profil 40x40x160	4	Off the shelf			
15	Profil 40x40x100	4	Off the shelf			
16	Profil 30x30x2000	2	Off the shelf		Bosch Rexroth	3842990720/2000
17	Profil 30x30x1210	3	Off the shelf			
18	STEEL_BASE	4	Off the shelf		Bosch Rexroth	3 842 542 667
19	HINGE	3	Off the shelf		Bosch Rexroth	3 842 543 331
20	MAGNET_CATCH	2	Off the shelf		Bosch Rexroth	3 842 516 165
21	STRAP_SHAPED_HANDLE	1	Off the shelf		Bosch Rexroth	3 842 525 766
22	HINGED_FOOT	4	Off the shelf		Bosch Rexroth	3 842 352 061
23	DAMPING_RING_D44	4	Off the shelf		Bosch Rexroth	3 842 521 817
24	BRACKET_30X60	8	Off the shelf		Bosch Rexroth	3 842 523 541
25	brackets_ce-sb3680-8	30	Off the shelf		Bosch Rexroth	3 842 529 005
26	Ecrou de butée pour rainure de 10 mm - Taraudage M8	220	Off the shelf		Bosch Rexroth	3 842 345 081
27	Vis à tête rectangulaire pour rainure de 10 mm - M8x25	220	Off the shelf		Bosch Rexroth	3 842 528 718
28	Vis à tête rectangulaire pour rainure de 8 mm - M6x20	20	Off the shelf		Bosch Rexroth	3 842 523 921
29	Ecrou de butée pour rainure de 8 mm - Taraudage M6	20	Off the shelf		Bosch Rexroth	3 842 523 925
30	M12x20 Hexagonal Head	4	Off the shelf		RS PRO	192-5513

1

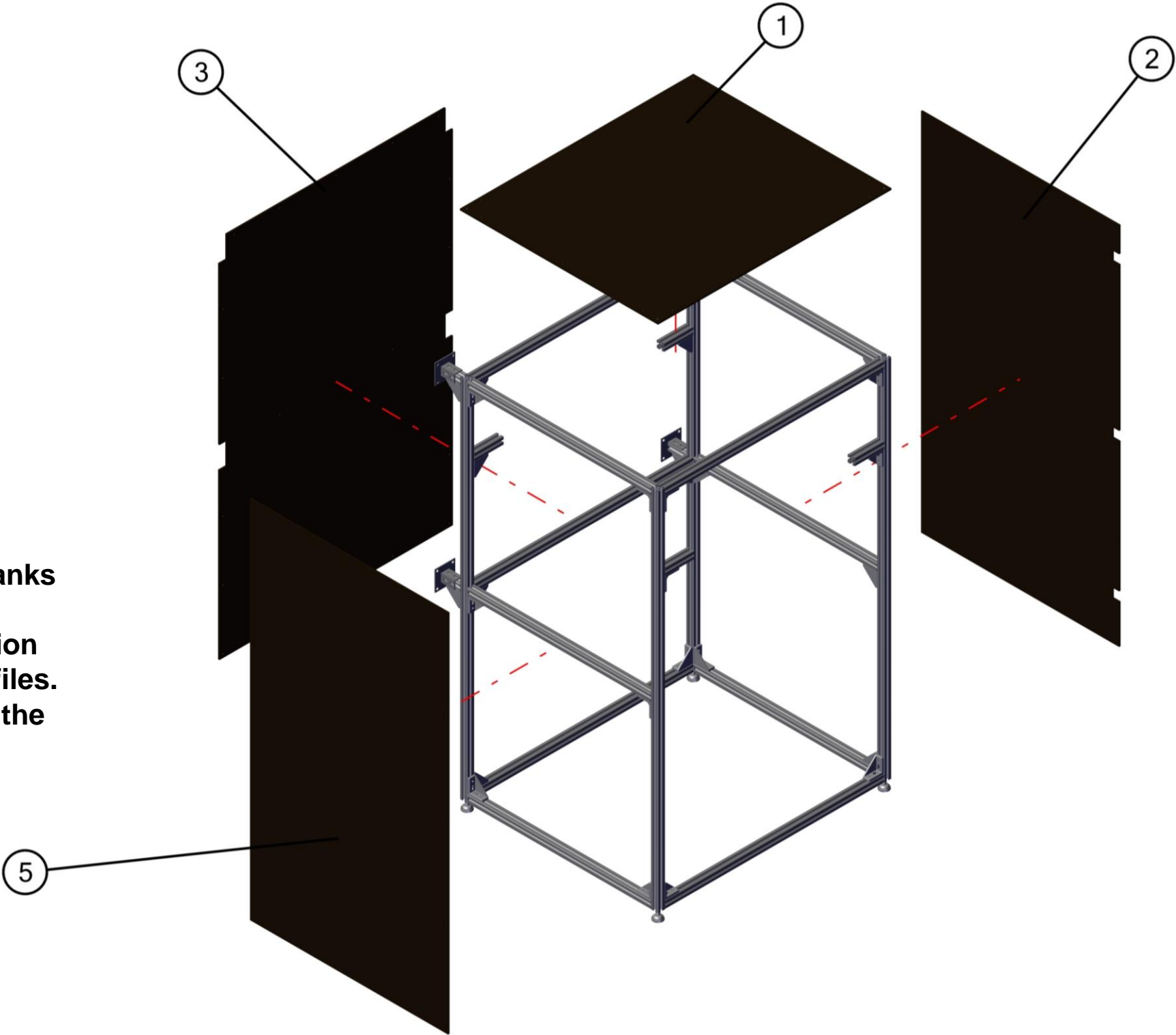
The 2m profiles must be threaded in M12x40 at both ends.



ID	Name	Qty	Off the shelf / Custom	Material	Manufactureur	Serial number
11	Profil 40x40x2000	4	Off the shelf		Bosch Rexroth	3842993120
12	Profil 40x40x1200	5	Off the shelf			
13	Profil 40x40x1006	6	Off the shelf			
14	Profil 40x40x160	4	Off the shelf			
15	Profil 40x40x100	4	Off the shelf			
22	HINGED_FOOT	4	Off the shelf		Bosch Rexroth	3 842 352 061
23	DAMPING_RING_D44	4	Off the shelf		Bosch Rexroth	3 842 521 817
25	brackets_ce-sb3680-8	30	Off the shelf		Bosch Rexroth	3 842 529 005
26	Ecrou de butée pour rainure de 10 mm - Taraudage M8	220	Off the shelf		Bosch Rexroth	3 842 345 081
27	Vis à tête rectangulaire pour rainure de 10 mm - M8x25	220	Off the shelf		Bosch Rexroth	3 842 528 718

2

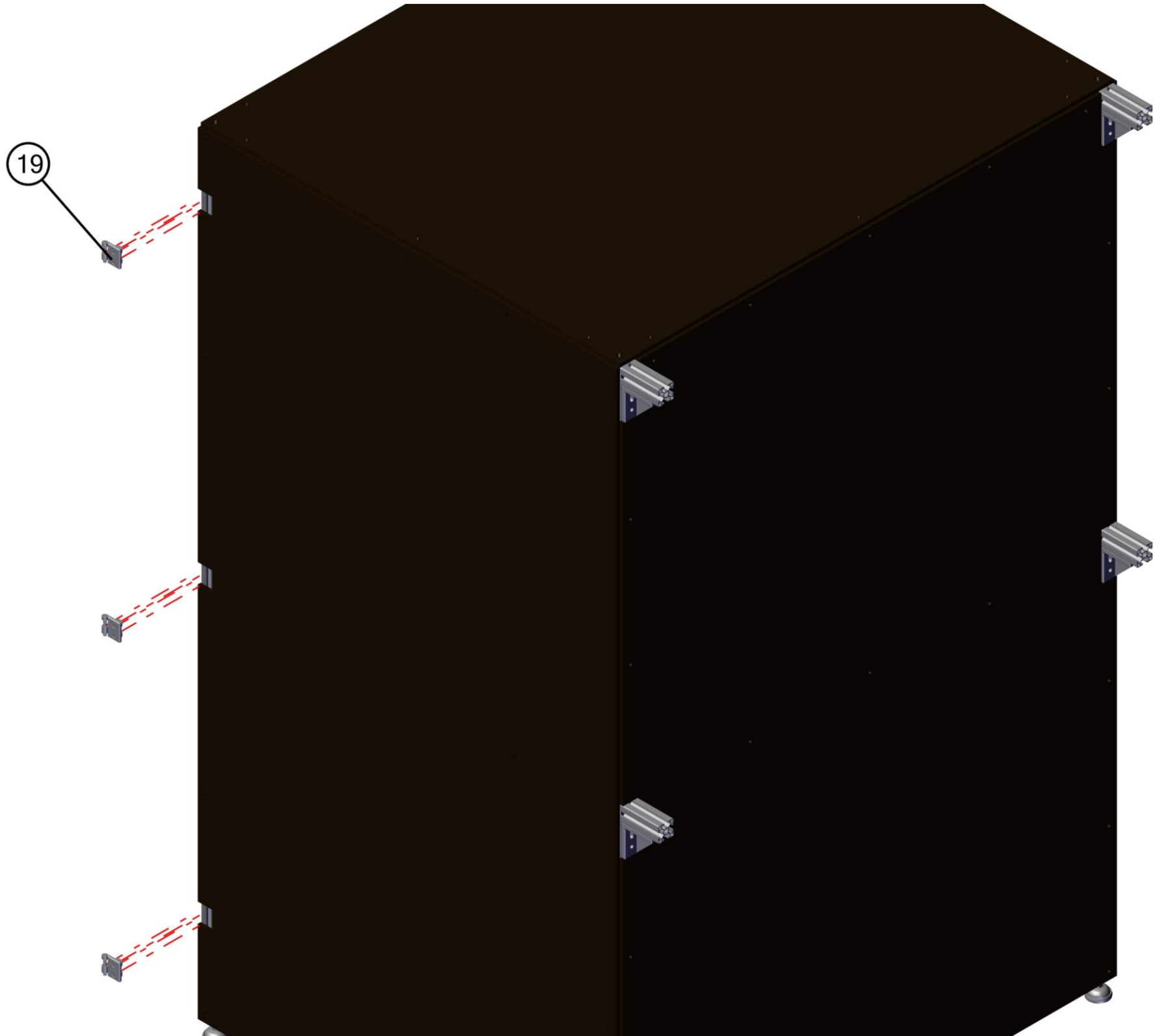
Use items 26 and 27 to fix the planks to the profiles grooves.  
For board 1, use item 30 in addition to fix it on the end of the 2m profiles.  
This task is difficult but ensures the rigidity of the structure.



ID	Name	Qty	Off the shelf / Custom	Material	Manufactureur	Serial number
1	Planche 1	1	Custom	Wood		
2	Planche 2	1	Custom	Wood		
3	Planche 3	1	Custom	Wood		
5	Planche 5	1	Custom	Wood		
26	Ecrou de butée pour rainure de 10 mm - Taraudage M8	220	Off the shelf		Bosch Rexroth	3 842 345 081
27	Vis à tête rectangulaire pour rainure de 10 mm - M8x25	220	Off the shelf		Bosch Rexroth	3 842 528 718
30	M12x20 Hexagonal Head	4	Off the shelf		RS PRO	192-5513



3

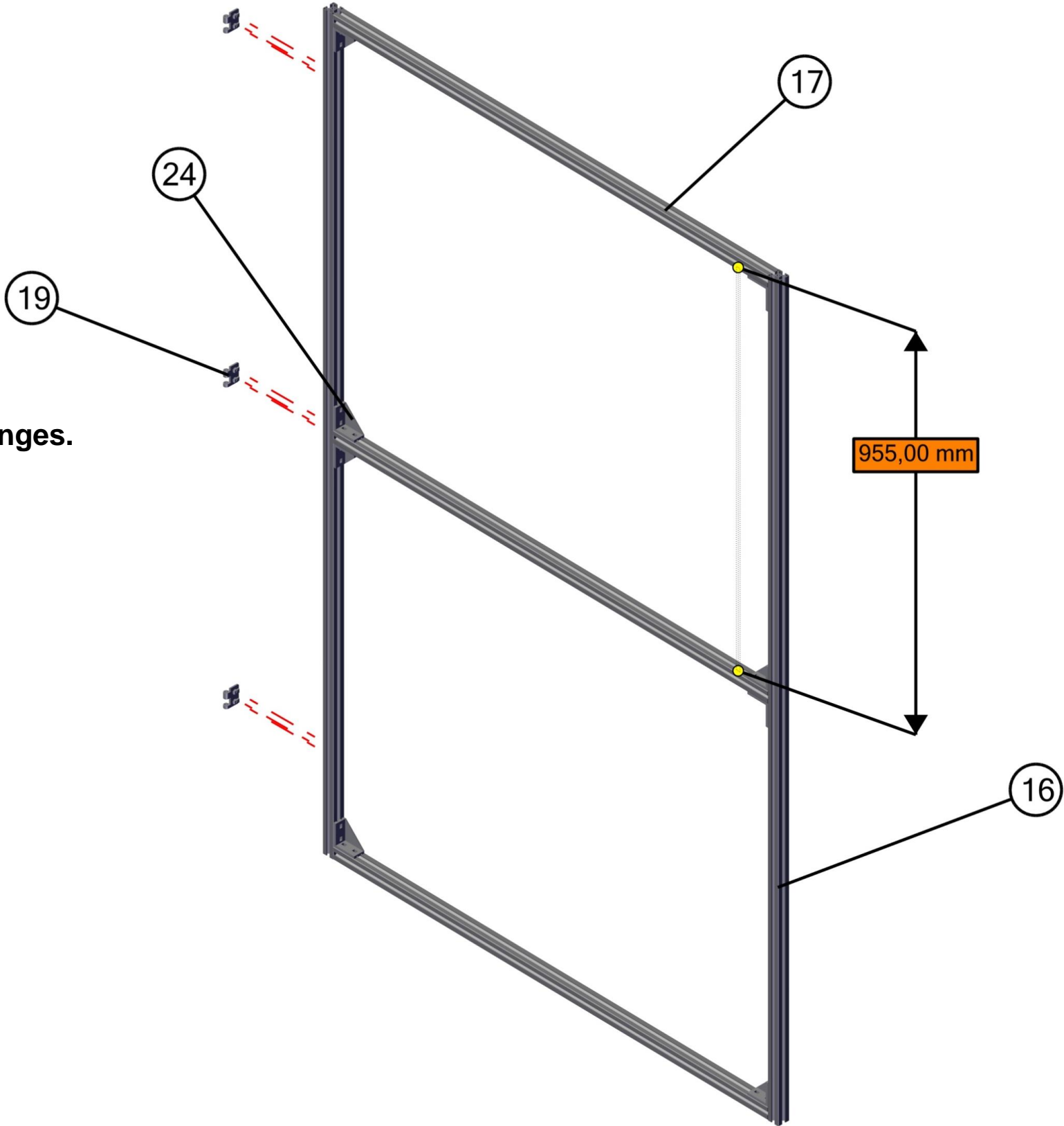


Use the half of the hinges and the supplied screws and nuts.

ID	Name	Qty	Off the shelf / Custom	Material	Manufactureur	Serial number
19	HINGE	3	Off the shelf		Bosch Rexroth	3 842 543 331

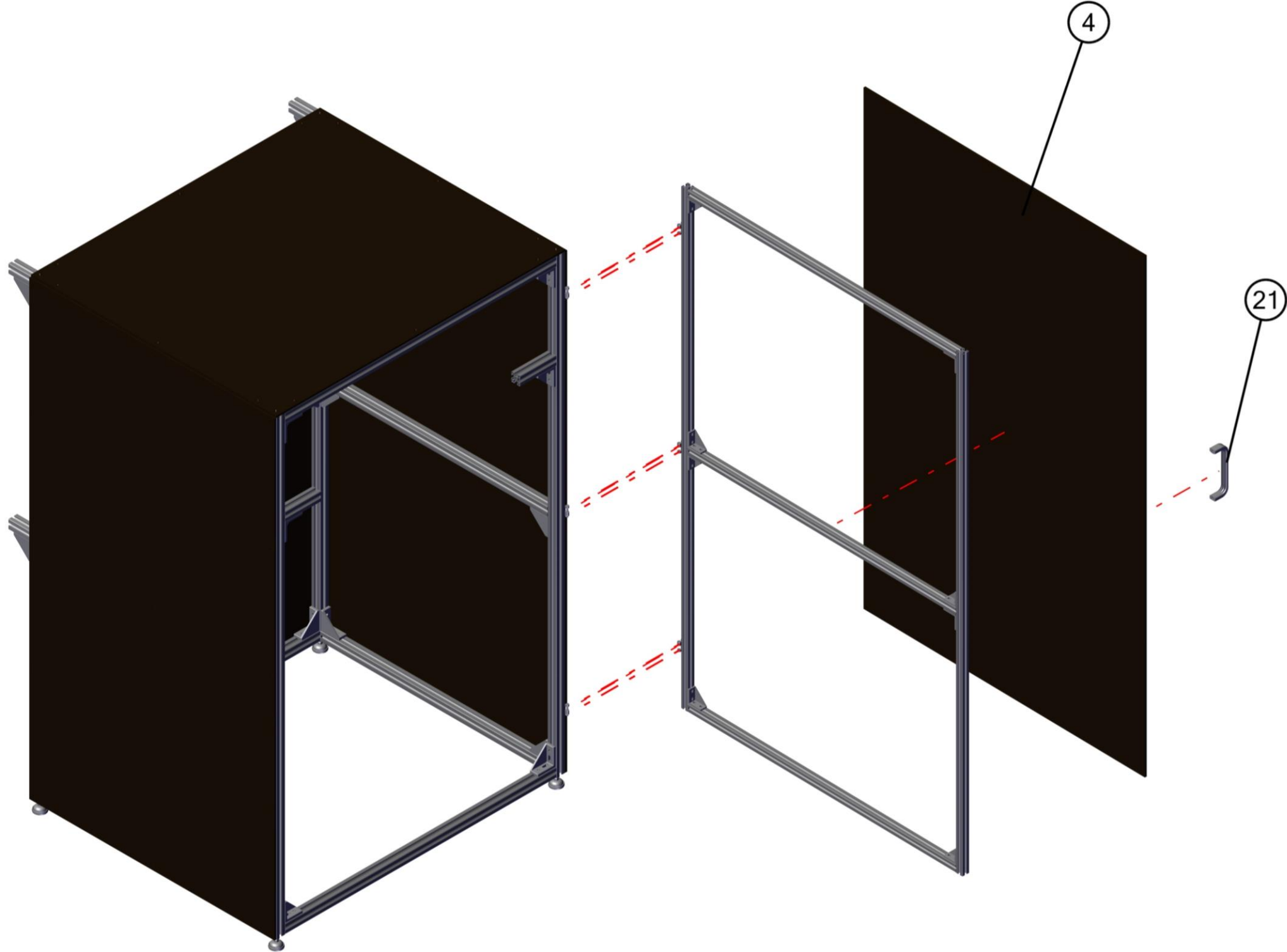
4

Use the other half of the hinges.



ID	Name	Qty	Off the shelf / Custom	Material	Manufactureur	Serial number
16	Profil 30x30x2000	2	Off the shelf		Bosch Rexroth	3842990720/2000
17	Profil 30x30x1210	3	Off the shelf			
19	HINGE	3	Off the shelf		Bosch Rexroth	3 842 543 331
24	BRACKET_30X60	8	Off the shelf		Bosch Rexroth	3 842 523 541

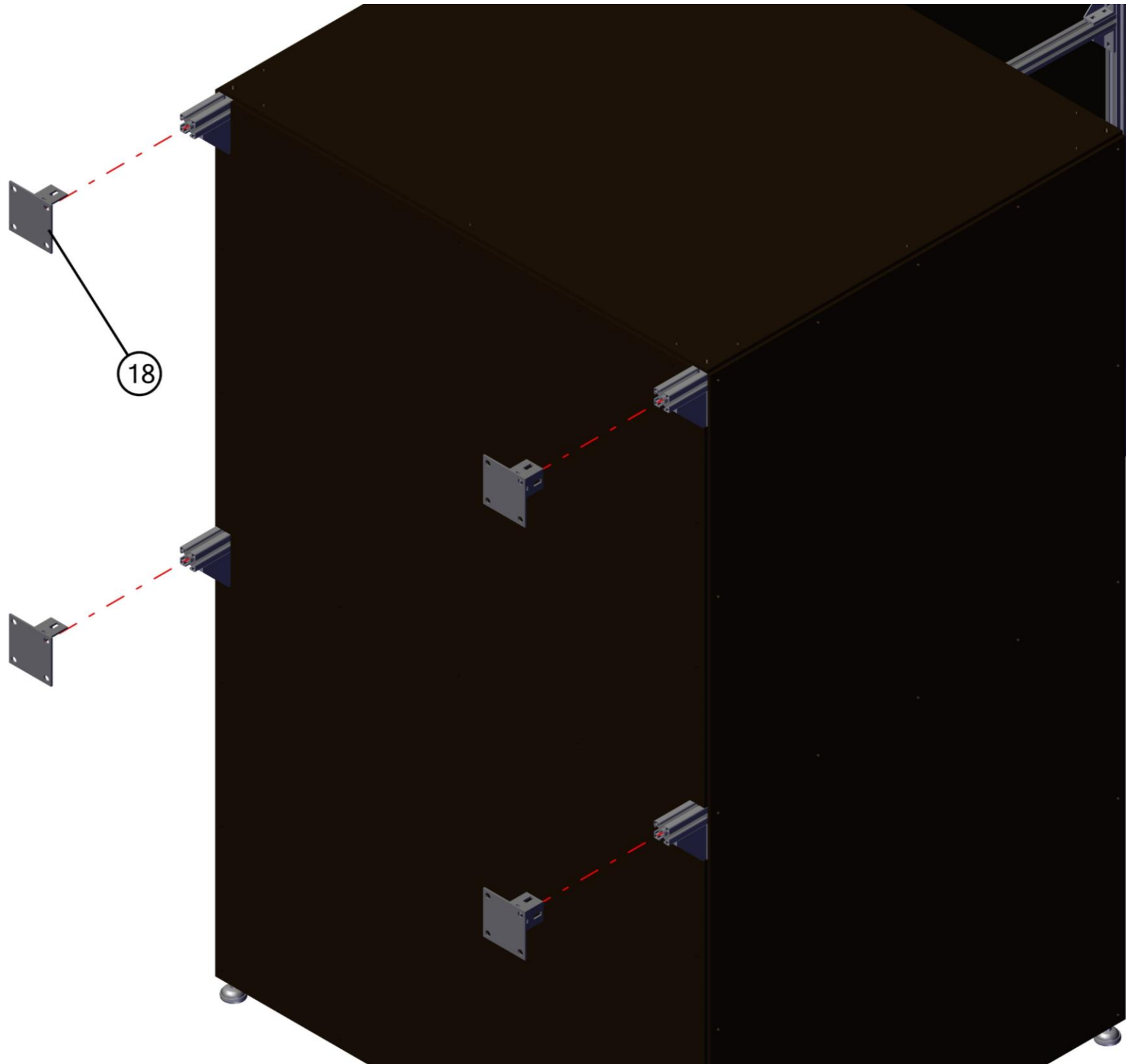
5



Fix the board 4 and item 21 on the door frame.  
Then hinge the door.

ID	Name	Qty	Off the shelf / Custom	Material	Manufactureur	Serial number
4	Planche 4	1	Custom	Wood		
21	STRAP_SHAPED_HANDLE	1	Off the shelf		Bosch Rexroth	3 842 525 766
28	Vis à tête rectangulaire pour rainure de 8 mm - M6x20	20	Off the shelf		Bosch Rexroth	3 842 523 921
29	Ecrou de butée pour rainure de 8 mm - Taraudage M6	20	Off the shelf		Bosch Rexroth	3 842 523 925

6

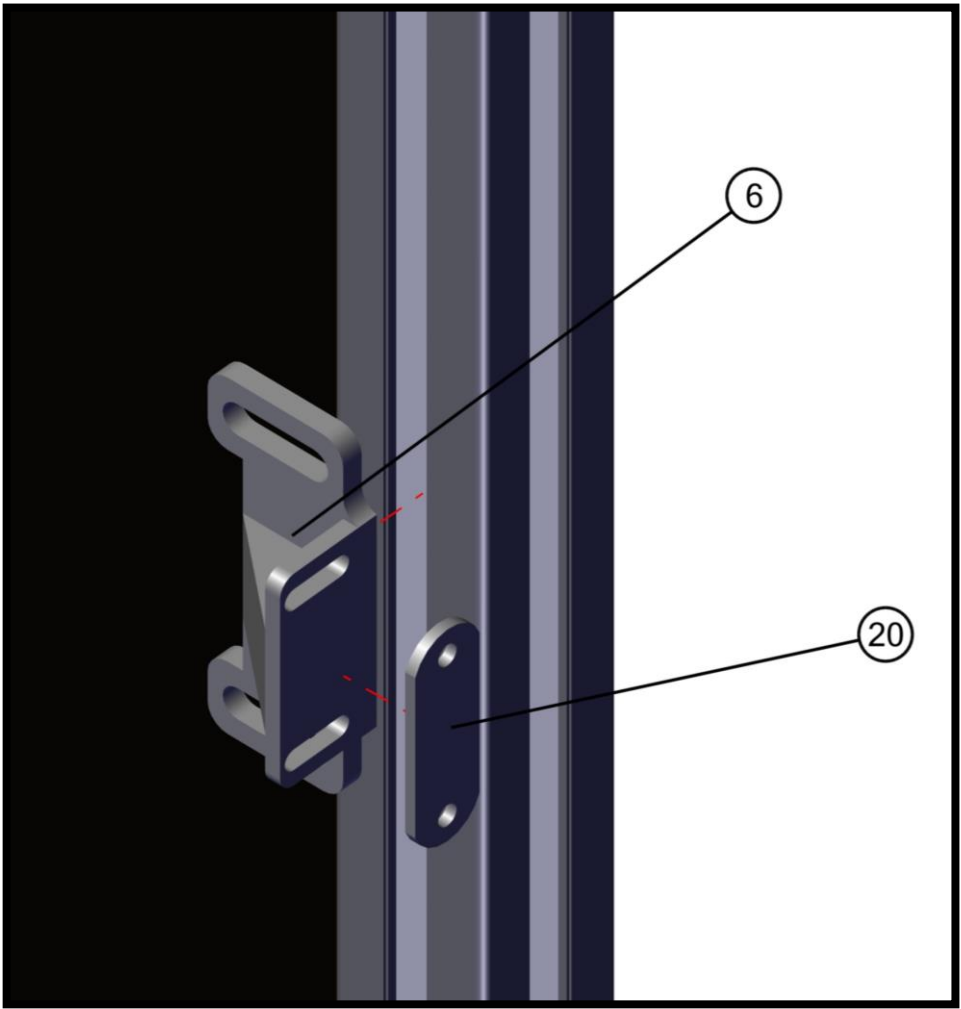
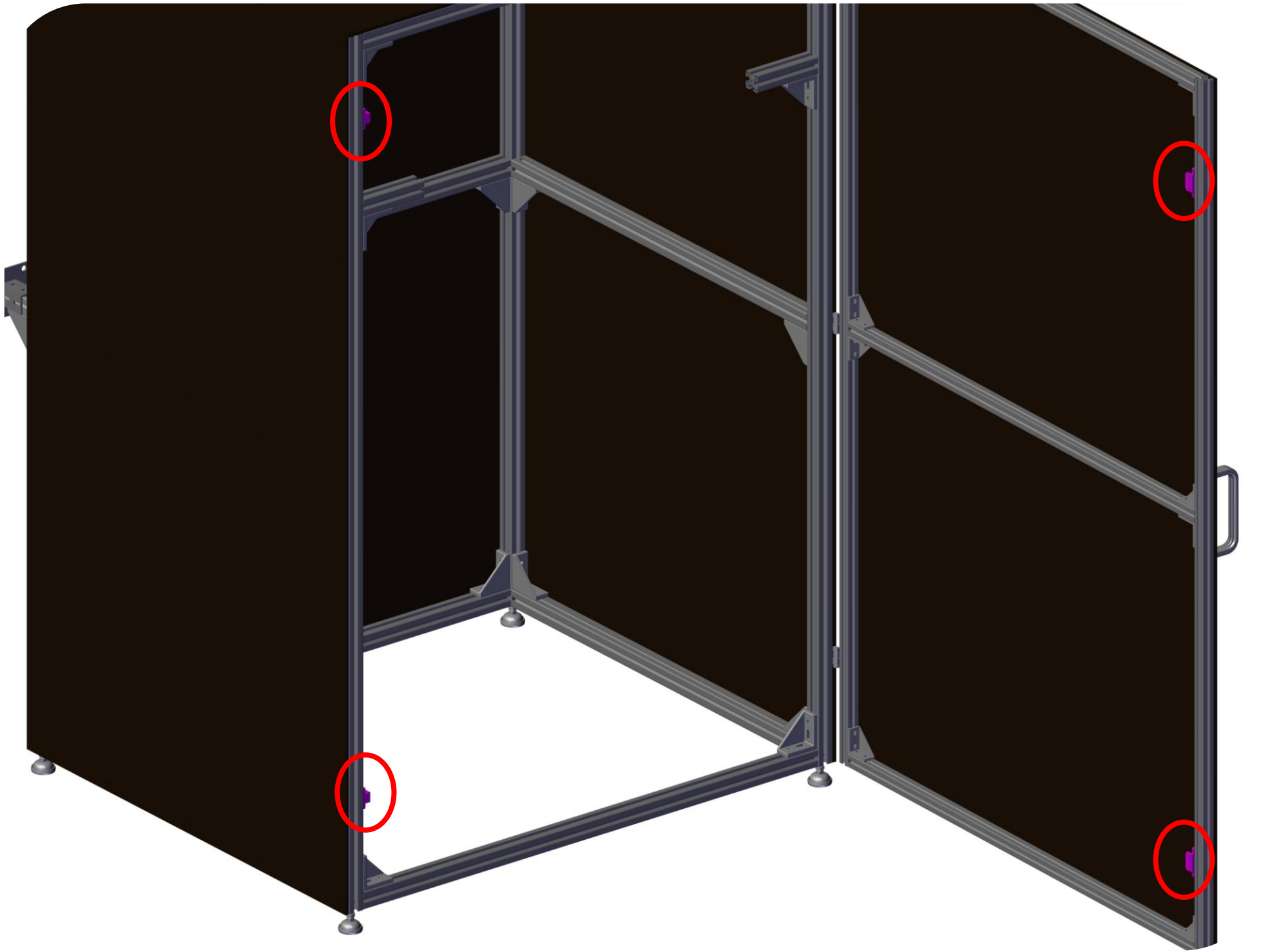


Use the supplied screws and nuts to fixe items 18 the profiles.

ID	Name	Qty	Off the shelf / Custom	Material	Manufactureur	Serial number
18	STEEL_BASE	4	Off the shelf		Bosch Rexroth	3 842 542 667



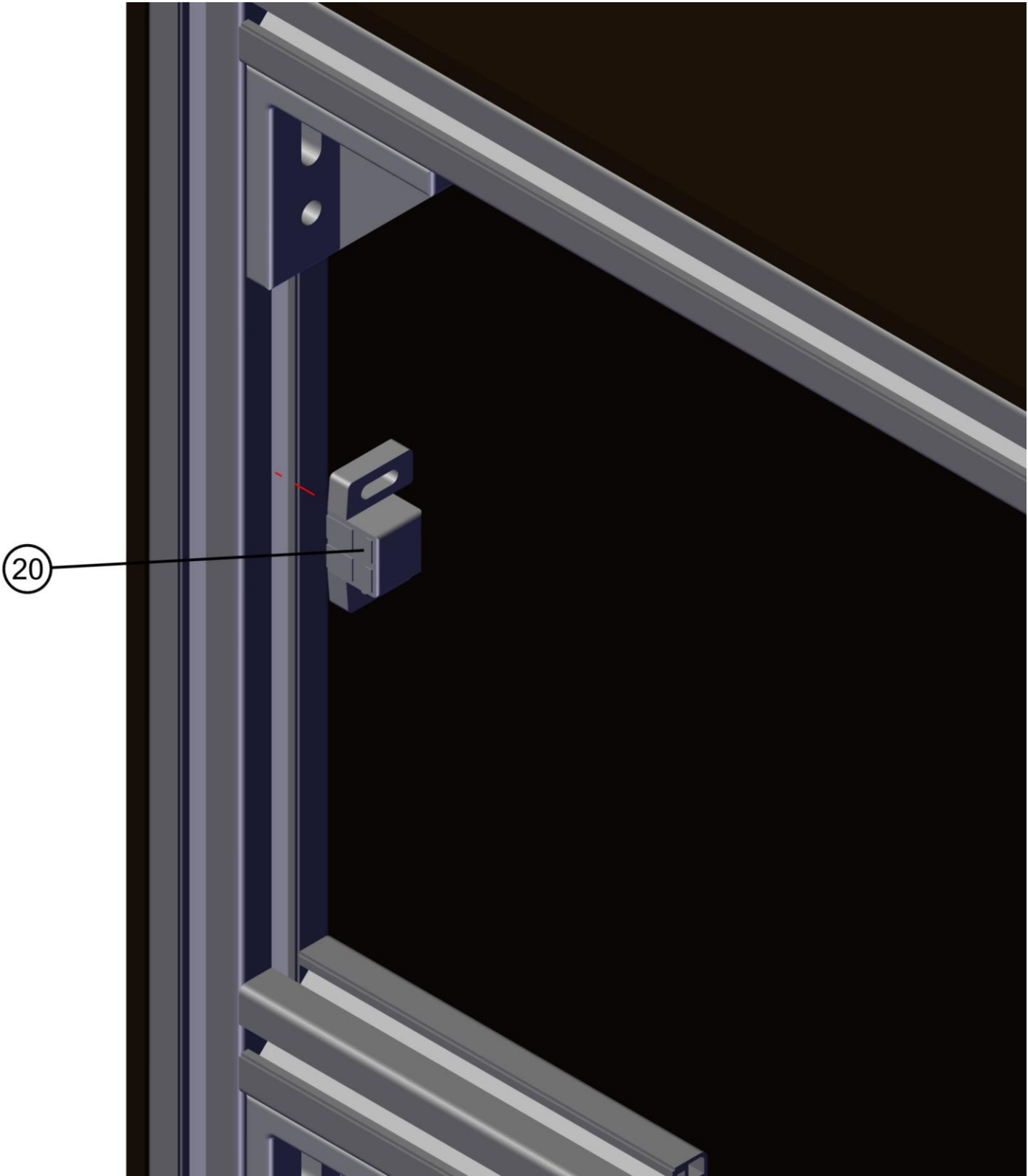
7



On one side of the door, attach to the profile the Magnet bracket with the magnetic plate supplied with item 20.

ID	Name	Qty	Off the shelf / Custom	Material	Manufactureur	Serial number
6	Magnet bracket	2	Custom	PLA		
20	MAGNET_CATCH	2	Off the shelf		Bosch Rexroth	3 842 516 165

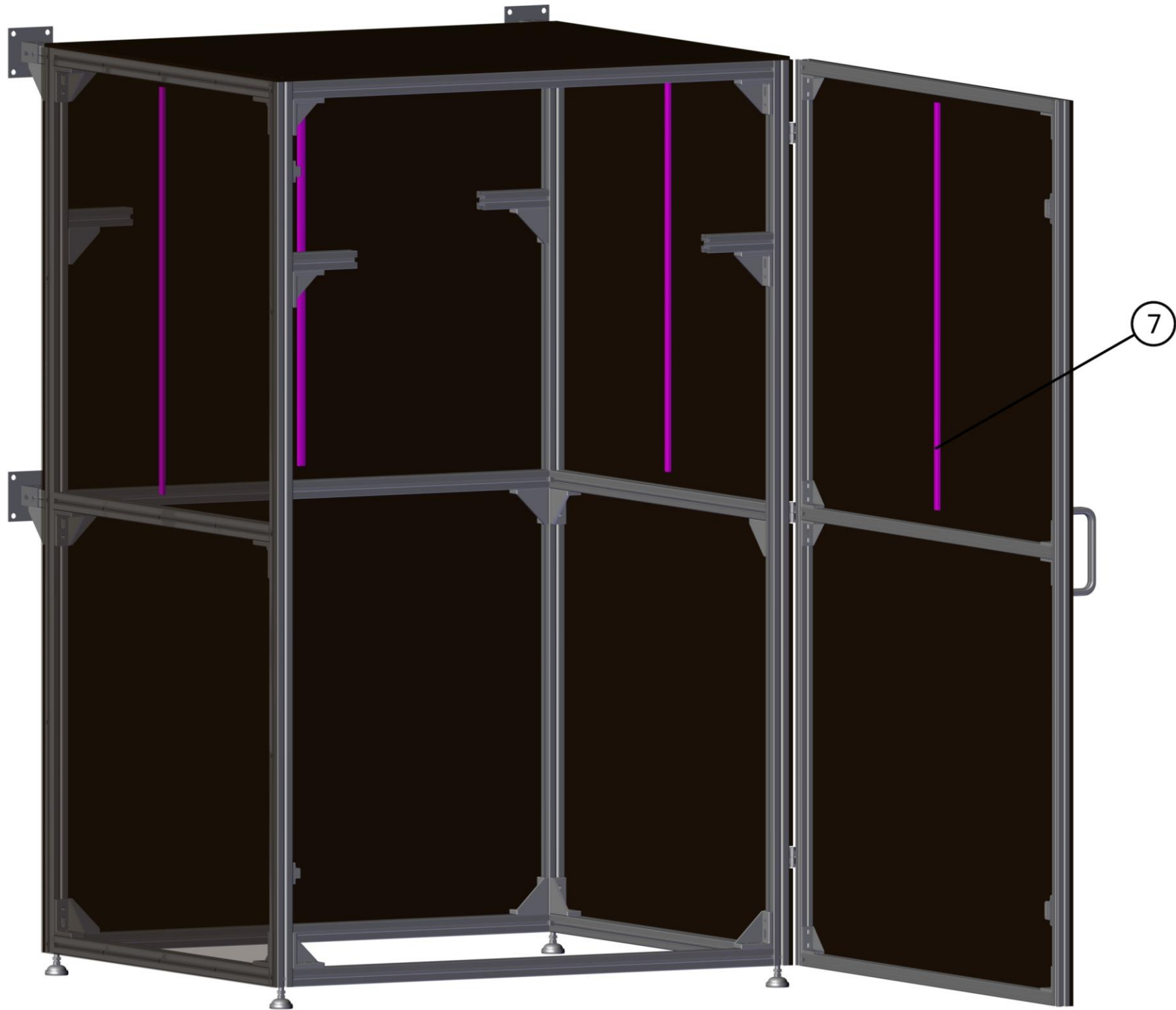
8



On the other side, fix item 20 with the supplied screw and nuts.

ID	Name	Qty	Off the shelf / Custom	Material	Manufactureur	Serial number
20	MAGNET_CATCH	2	Off the shelf		Bosch Rexroth	3 842 516 165

9



Screw the LED channel directly to the wooden boards

ID	Name	Qty	Off the shelf / Custom	Material	Manufactureur	Serial number
7	LED Strip U Channel	4	Off the shelf			
8	LED Ribbon	1	Off the shelf			
9	LED Dimmer	1	Off the shelf			
10	Convertisseur 24-12V	1	Off the shelf			