

Annex no. 1

Assembly instructions

Aluminum container stairs



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Table of contents

1.	Assembly instructions	4
2.	Components of the container stairs system.	4
2.1.	Additional components for container heights	15
2.2.	Industrial handrails, safety handrails	15
2.3.	Graphical list of components	16
3.	Tools necessary for installation of container stairs.....	30
4.1.	Installation of brackets.....	31
4.2.	Assembly of landings.....	35
4.3.	Assembly of posts.....	41
4.4.	Assembly of stairs.....	45
4.5.	Assembly of stair extensions	49
4.6.	Assembly of handrails	50
4.7.	Installation of the P-SK3-LP2 connector.....	54
4.8.	Assembly of safety handrails.....	55
4.9.	Installation of the P-SK3-LP5 connector.....	58
4.10.	Installation of column bracing.....	59

Revisions

Item	NAME AND SURNAME	DEPARTMENT	DATE OF CHANGE	SCOPE OF REVISION	NOTES
1	Piotr Abram	R&D	25.06.2018	List of elements, assembly of safe barriers	
2	Sebastian Figura	R&D	01.06.2026	Update of document	
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1. Assembly instructions

The assembly instructions constitute an annex to the Operational and Maintenance Documentation (OMD) of the aluminium container stairs system by TLC.

Aluminium container stairs consist of individual components according to the specification attached to the delivery. The system features bolted connections and pins. The system is delivered in the form of separate elements such as landings, handrails, steps, fasteners, stairs, and posts. The components are assembled in a specific order.

As a modular structure, aluminium container stairs can be freely configured depending on the needs. The setup of individual configurations should comply with the OMD. Section 2 presents 8 basic configurations of container stairs.

2. Components of the container stairs system.

The list of components included in the tables for each configuration presents the components of the aluminium container stairs system and their quantities installed depending on the configuration and the type of system ordered by the client. All component lists have been prepared for the lowest container height, i.e., 2590 mm. To adapt the system to container heights of 2800 mm and 2960 mm, additional components specified in section 2.2 on page 16 must be added.

There are two types of handrails in the aluminium container stairs system: industrial and safety. The handrails are installed in the same way; the selection of industrial and safety handrails is presented in the table in section 2.3 on page 16.

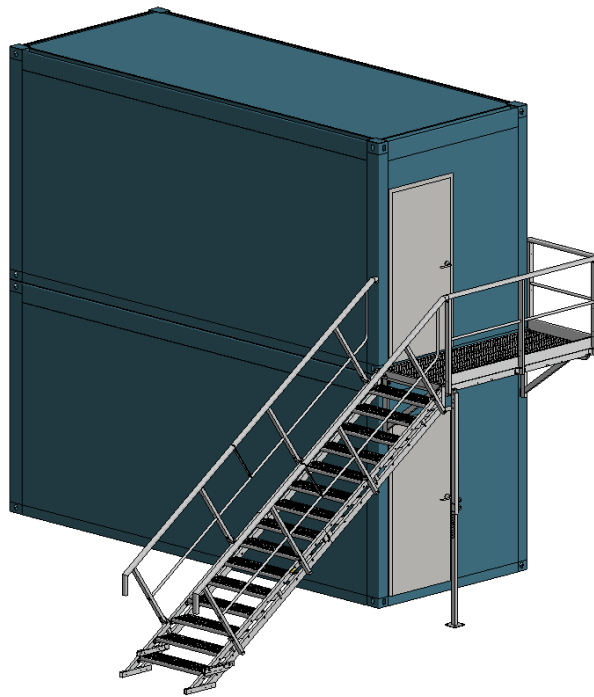


Figure 1. Configuration 1

* List of additional components for heights 2800 mm and 2960 mm on page 15.

Components of SK3 Var1 for container height 2590mm*			
No.	Designation	Component description	Qty
		Width 1.1/1.25	
1.	SK3-S2	Upper stair flight 1100	1
	SK3-S4	Upper stair flight 1250	
2.	SK3-S1	Lower stair flight 1100	1
	SK3-S3	Lower stair flight 1250	
4.	SK3-P11	Landing 2440x1100 checkered plate	1
	SK3-P6	Landing 2440x1250 checkered plate	
8.	SK3-B9	Landing handrail 1100 industrial	1
	SK3-B10	Landing handrail 1250 industrial	
10.	SK3-B6	Landing handrail 2440 industrial	1
11.	SK3-BS2	Stair handrail, left lower, industrial	1
	SK3-BS3	Stair handrail, right lower, industrial	
12.	SK3-BS5	Stair handrail, left upper, industrial	1
	SK3-BS6	Stair handrail, right upper, industrial	
13.	SK3-PR3	Post 01	1
16.	SK3-W1	Landing bracket 1100	2
	SK3-W3	Bracket for storage containers 1100 left	1
	SK3-W5	Bracket for storage containers 1100 right	
	SK3-W2	Landing bracket 1250	2
	SK3-W4	Bracket for storage containers 1250 left	1
	SK3-W6	Bracket for storage containers 1250 right	
22.	SK3-L4	Handrail connector	1
30.	SK3-L9	Lower stair connector	2
31.	SK3-L8	Upper stair connector	2
32.	SK3-ZW1	Bracket clamp	2
A.	ISO 4014 M10x100 A2	Bolt M10x100 A2	10
B.	ISO 4014 M10x120 A2	Bolt M10x120 A2	8
C.	ISO 4014 M10x80 A2	Bolt M10x80 A2	8
D.	ISO 4014 M10x65 A2	Bolt M10x65 A2	15
F.	ISO 4014 M12x160 A2	Bolt M12x160 A2	2
I.	ISO 4032 M10 A2	Nut M10 A2	61
J.	ISO 4032 M12 A2	Nut M12 A2	2
K.	ISO 7089 10	Washer 10 A2	100
L.	ISO 7089 12	Washer 12 A2	4
O.	ISO 4762 M10x25 A2	Hexagon socket head cap screw M10x25 A2	20

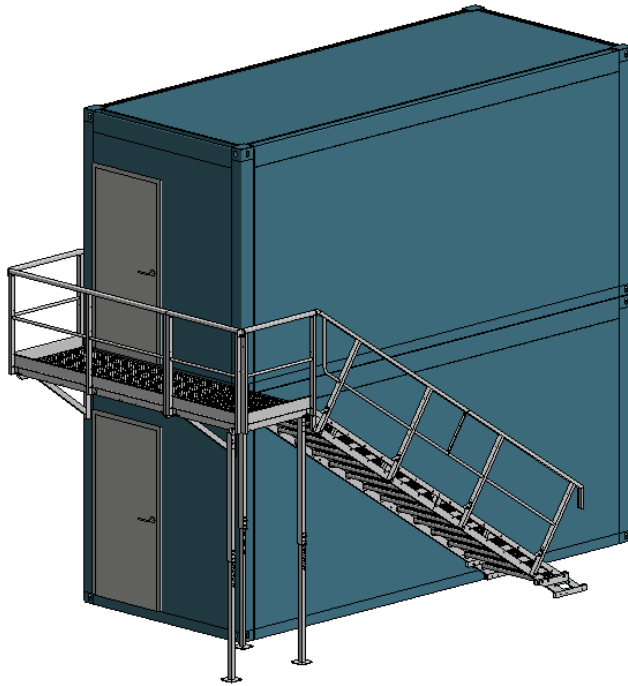


Figure 2. Configuration 3

* List of additional components for heights 2800 mm and 2960 mm on page 15.

Components of SK3 Var3 for container height 2590mm*			
No.	Designation	Component description	Qty
Width 1.1/ 1.25			
1.	SK3-S2	Upper stair flight 1100	1
	SK3-S4	Upper stair flight 1250	
2.	SK3-S1	Lower stair flight 1100	1
	SK3-S3	Lower stair flight 1250	
3.	SK3-P1	Landing 1100x1100 checkered plate	1
	SK3-P2	Landing 1250x1250 checkered plate	
4.	SK3-P11	Landing 2440x1100 checkered plate	1
	SK3-P6	Landing 2440x1250 checkered plate	
8.	SK3-B9	Landing handrail 1100 industrial	3
	SK3-B10	Landing handrail 1250 industrial	
10.	SK3-B6	Landing handrail 2440 industrial	1
11.	SK3-BS2	Stair handrail, left lower, industrial	1
	SK3-BS3	Stair handrail, right lower, industrial	
12.	SK3-BS5	Stair handrail, left upper, industrial	1
	SK3-BS6	Stair handrail, right upper, industrial	
13.	SK3-PR3	Post 01	3
16.	SK3-W1	Landing bracket 1100	2
	SK3-W3	Bracket for storage containers 1100 left	1
	SK3-W5	Bracket for storage containers 1100 right	
	SK3-W2	Landing bracket 1250	2
	SK3-W4	Bracket for storage containers 1250 left	1
	SK3-W6	Bracket for storage containers 1250 right	
22.	SK3-L4	Handrail connector	2
30.	SK3-L9	Lower stair connector	2
31.	SK3-L8	Upper stair connector	2
32.	SK3-ZW1	Bracket clamp	2
A.	ISO 4014 M10x100 A2	Bolt M10x100 A2	21
B.	ISO 4014 M10x120 A2	Bolt M10x120 A2	4
C.	ISO 4014 M10x80 A2	Bolt M10x80 A2	4
D.	ISO 4014 M10x65 A2	Bolt M10x65 A2	21
F.	ISO 4014 M12x160 A2	Bolt M12x160 A2	2
I.	ISO 4032 M10 A2	Nut M10 A2	68
K.	ISO 7089 10	Washer 10 A2	112
L.	ISO 7089 12	Washer 12 A2	4
O.	ISO 4762 M10x25 A2	Hexagon socket head cap screw M10x25 A2	18

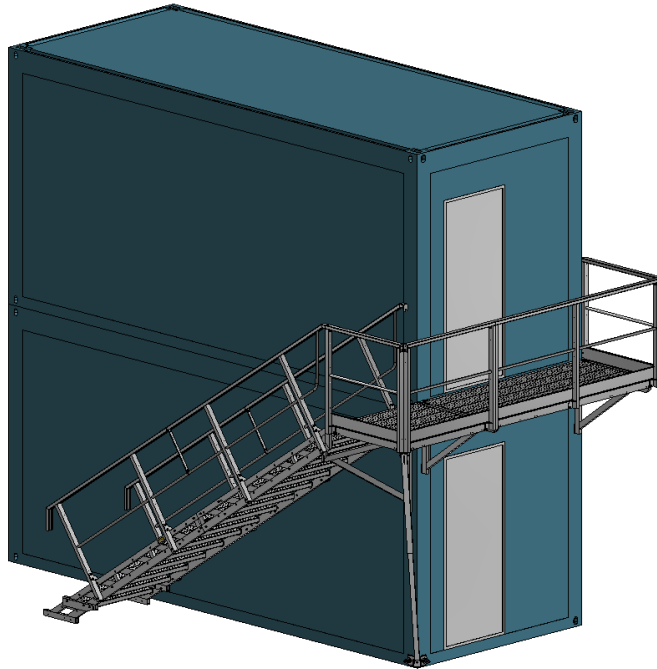


Figure 3. Configuration 3M

** Configuration 3m is available only in width 1.1 and height 2800mm.

Components of SK3 Var3m for container height 2800mm**			
No.	Designation	Component description	Qty
		Width 1.1**	
1.	SK3-S2	Upper stair flight 1100	1
2.	SK3-S1	Lower stair flight 1100	1
2-1	SK3-S5	Stair extension 1 step 1100	1
4.	SK3-P11	Landing 2440x1100 checkered plate	1
6.	SK3-P14	Landing 1250x1100 checkered plate	1
8.	SK3-B9	Landing handrail 1100 industrial	2
10.	SK3-B6	Landing handrail 2440 industrial	1
11.	SK3-BS2	Stair handrail, left lower, industrial	1
	SK3-BS3	Stair handrail, right lower, industrial	
12.	SK3-BS5	Stair handrail, left upper, industrial	1
	SK3-BS6	Stair handrail, right upper, industrial	
15.	SK3-PR4	Post 03	1
16.	SK3-W1	Landing bracket 1100	2
18.	SK3-W7	Stair bracket	1
22.	SK3-L4	Handrail connector	2
27.	SK3-L16	Upper connector landing - post	1
28.	SK3-L17	Lower connector landing - post	1
30.	SK3-L9	Lower stair connector	2
31.	SK3-L8	Upper stair connector	2
32.	SK3-ZW1	Bracket clamp	5
A.	ISO 4014 M10x100 A2	Bolt M10x100 A2	25
B.	ISO 4014 M10x120 A2	Bolt M10x120 A2	8
C.	ISO 4014 M10x80 A2	Bolt M10x80 A2	12
D.	ISO 4014 M10x65 A2	Bolt M10x65 A2	19
F.	ISO 4014 M12x160 A2	Bolt M12x160 A2	2
I.	ISO 4032 M10 A2	Nut M10 A2	84
K.	ISO 7089 10	Washer 10 A2	148
L.	ISO 7089 12	Washer 12 A2	4
O.	ISO 4762 M10x25 A2	Hexagon socket head cap screw M10x25 A2	20

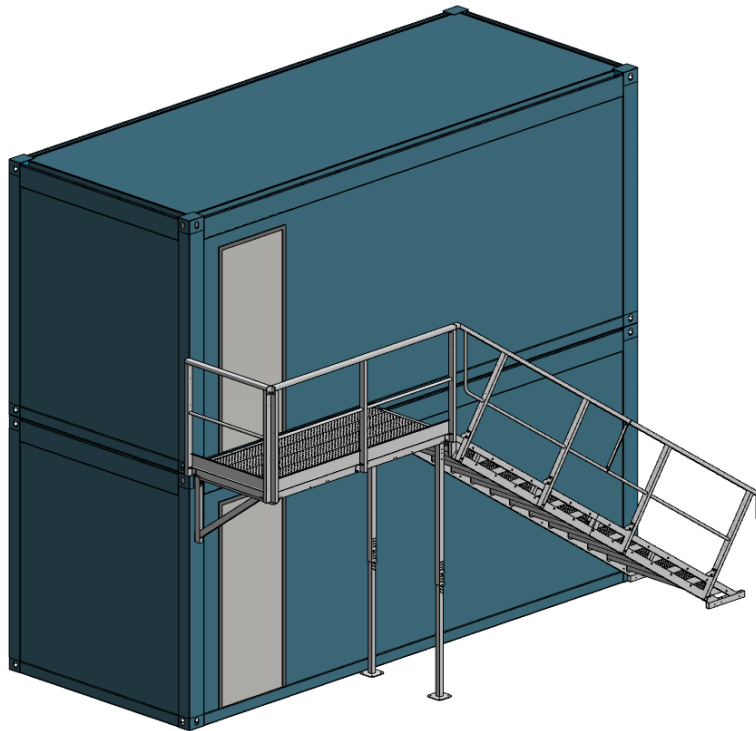


Figure 4. Configuration 4

* List of additional components for heights 2800mm and 2960mm on page 15.

Components of SK3 Var4 for container height 2590mm*			
No.	Designation	Component description	Qty
	Width 1.1/1.25		
1.	SK3-S2	Upper stair flight 1100	1
	SK3-S4	Upper stair flight 1250	
2.	SK3-S1	Lower stair flight 1100	1
	SK3-S3	Lower stair flight 1250	
4.	SK3-P11	Landing 2440x1100 checkered plate	1
	SK3-P6	Landing 2440x1250 checkered plate	
8.	SK3-B9	Landing handrail 1100 industrial	1
	SK3-B10	Landing handrail 1250 industrial	
10.	SK3-B6	Landing handrail 2440 industrial	1
11.	SK3-BS2	Stair handrail, left lower, industrial	1
	SK3-BS3	Stair handrail, right lower, industrial	
12.	SK3-BS5	Stair handrail, left upper, industrial	1
	SK3-BS6	Stair handrail, right upper, industrial	
13.	SK3-PR3	Post 01	2
16.	SK3-W1	Landing bracket 1100	1
	SK3-W2	Landing bracket 1250	1
22.	SK3-L4	Handrail connector	1
23.	SK3-L1	Landing-container connector 01	1
30.	SK3-L9	Lower stair connector	2
31.	SK3-L8	Upper stair connector	2
32.	SK3-ZW1	Bracket clamp	1
A.	ISO 4014 M10x100 A2	Bolt M10x100 A2	8
B.	ISO 4014 M10x120 A2	Bolt M10x120 A2	4
C.	ISO 4014 M10x80 A2	Bolt M10x80 A2	4
D.	ISO 4014 M10x65 A2	Bolt M10x65 A2	11
F.	ISO 4014 M12x160 A2	Bolt M12x160 A2	2
I.	ISO 4032 M10 A2	Nut M10 A2	45
J.	ISO 4032 M12 A2	Nut M12 A2	4
K.	ISO 7089 10	Washer 10 A2	68
L.	ISO 7089 12	Washer 12 A2	8
O.	ISO 4762 M10x25 A2	Hexagon socket head cap screw M10x25 A2	18

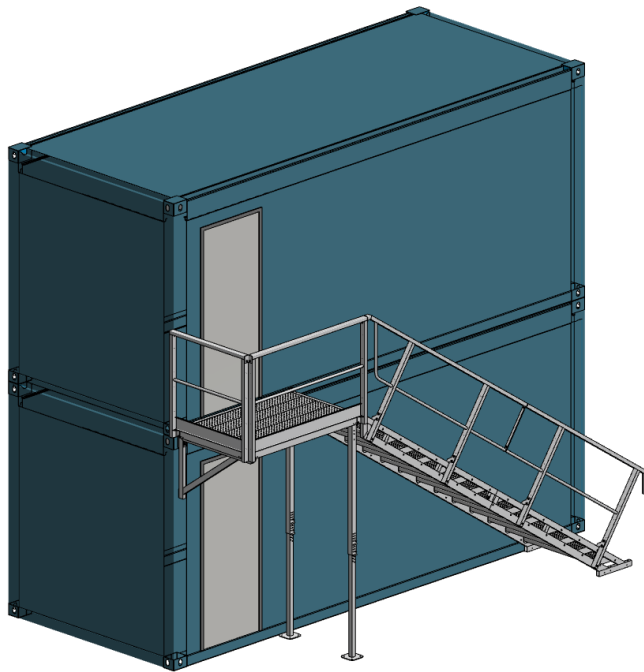


Figure 5. Configuration 4a

* List of additional components for heights 2800mm and 2960mm on page 15.

Components of SK3 Var4a for container height 2590mm*			
No.	Designation	Component description	Qty
		Width 1.1/1.25	
1.	SK3-S2	Upper stair flight 1100	1
	SK3-S4	Upper stair flight 1250	
2.	SK3-S1	Lower stair flight 1100	1
	SK3-S3	Lower stair flight 1250	
5.	SK3-P3	Landing 1690x1100 checkered plate	1
	SK3-P4	Landing 1690x1250 checkered plate	
8.	SK3-B9	Landing handrail 1100 industrial	1
	SK3-B10	Landing handrail 1250 industrial	
5	SK3-B5	Landing handrail 1690 industrial	1
11.	SK3-BS2	Stair handrail, left lower, industrial	1
	SK3-BS3	Stair handrail, right lower, industrial	
12.	SK3-BS5	Stair handrail, left upper, industrial	1
	SK3-BS6	Stair handrail, right upper, industrial	
13.	SK3-PR3	Post 01	2
16.	SK3-W1	Landing bracket 1100	1
	SK3-W2	Landing bracket 1250	1
22.	SK3-L4	Handrail connector	1
23.	SK3-L1	Landing-container connector 01	1
30.	SK3-L9	Lower stair connector	2
31.	SK3-L8	Upper stair connector	2
32.	SK3-ZW1	Bracket clamp	1
A.	ISO 4014 M10x100 A2	Bolt M10x100 A2	8
B.	ISO 4014 M10x120 A2	Bolt M10x120 A2	4
C.	ISO 4014 M10x80 A2	Bolt M10x80 A2	4
D.	ISO 4014 M10x65 A2	Bolt M10x65 A2	11
F.	ISO 4014 M12x160 A2	Bolt M12x160 A2	2
I.	ISO 4032 M10 A2	Nut M10 A2	45
J.	ISO 4032 M12 A2	Nut M12 A2	4
K.	ISO 7089 10	Washer 10 A2	68
L.	ISO 7089 12	Washer 12 A2	8

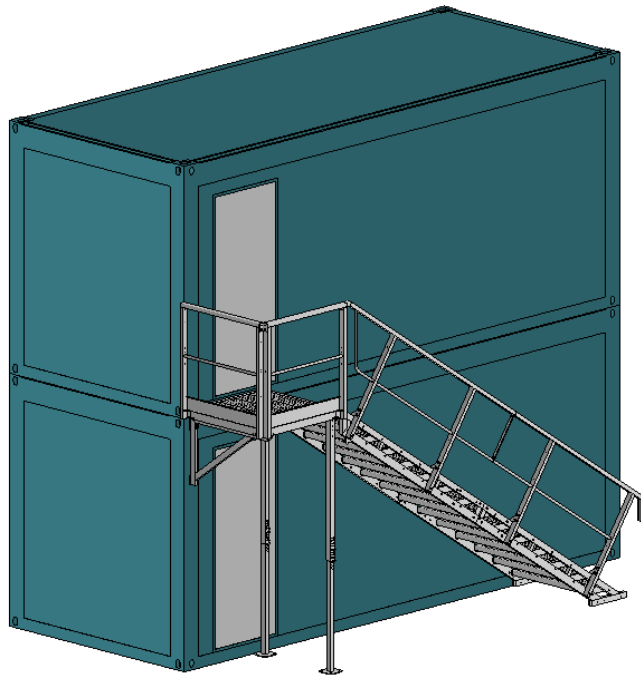


Figure 6. Configuration 4b

* List of additional components for heights 2800mm and 2960mm on page 15.

Components of SK3 Var4b for container height 2590mm*			
No.	Designation	Component description	Qty
	Width 1.1/1.25		
1.	SK3-S2	Upper stair flight 1100	1
	SK3-S4	Upper stair flight 1250	
2.	SK3-S1	Lower stair flight 1100	1
	SK3-S3	Lower stair flight 1250	
3.	SK3-P1	Landing 1100x1100 checkered plate	1
	SK3-P2	Landing 1250x1250 checkered plate	
8.	SK3-B9	Landing handrail 1100 industrial	2
	SK3-B10	Landing handrail 1250 industrial	
11.	SK3-BS2	Stair handrail, left lower, industrial	1
	SK3-BS3	Stair handrail, right lower, industrial	
12.	SK3-BS5	Stair handrail, left upper, industrial	1
	SK3-BS6	Stair handrail, right upper, industrial	
13.	SK3-PR3	Post 01	2
16.	SK3-W1	Landing bracket 1100	1
	SK3-W2	Landing bracket 1250	
22.	SK3-L4	Handrail connector	1
23.	SK3-L1	Landing-container connector 01	1
30.	SK3-L9	Lower stair connector	2
31.	SK3-L8	Upper stair connector	2
32.	SK3-ZW1	Bracket clamp	1
A.	ISO 4014 M10x100 A2	Bolt M10x100 A2	8
B.	ISO 4014 M10x120 A2	Bolt M10x120 A2	4
C.	ISO 4014 M10x80 A2	Bolt M10x80 A2	4
D.	ISO 4014 M10x65 A2	Bolt M10x65 A2	11
F.	ISO 4014 M12x160 A2	Bolt M12x160 A2	2
I.	ISO 4032 M10 A2	Nut M10 A2	45
J.	ISO 4032 M12 A2	Nut M12 A2	4
K.	ISO 7089 10	Washer 10 A2	68
L.	ISO 7089 12	Washer 12 A2	8
O.	ISO 4762 M10x25 A2	Hexagon socket head cap screw M10x25 A2	18

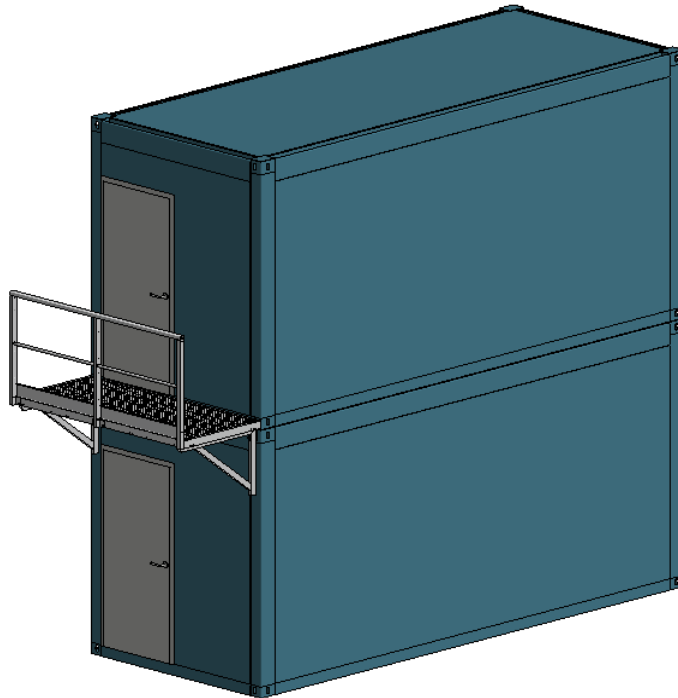


Figure 7. Configuration 5

Components of SK3 Var5 for container heights 2590, 2800, 2960 mm			
No.	Designation	Component description	Qty
		Width 1.1	
4.	SK3-P11	Landing 2440x1100 checkered plate	1
	SK3-P6	Landing 2440x1250 checkered plate	
10.	SK3-B6	Landing handrail 2440 industrial	1
16.	SK3-W1	Landing bracket 1100	1
	SK3-W3	Bracket for storage containers 1100 left	2
	SK3-W5	Bracket for storage containers 1100 right	
	SK3-W2	Landing bracket 1250	1
	SK3-W4	Bracket for storage containers 1250 left	2
	SK3-W6	Bracket for storage containers 1250 right	
32.	SK3-ZW1	Bracket clamp	2
A.	ISO 4014 M10x100 A2	Bolt M10x100 A2	13
D.	ISO 4014 M10x65 A2	Bolt M10x65 A2	4
I.	ISO 4032 M10 A2	Nut M10 A2	17
K.	ISO 7089 10	Washer 10 A2	34

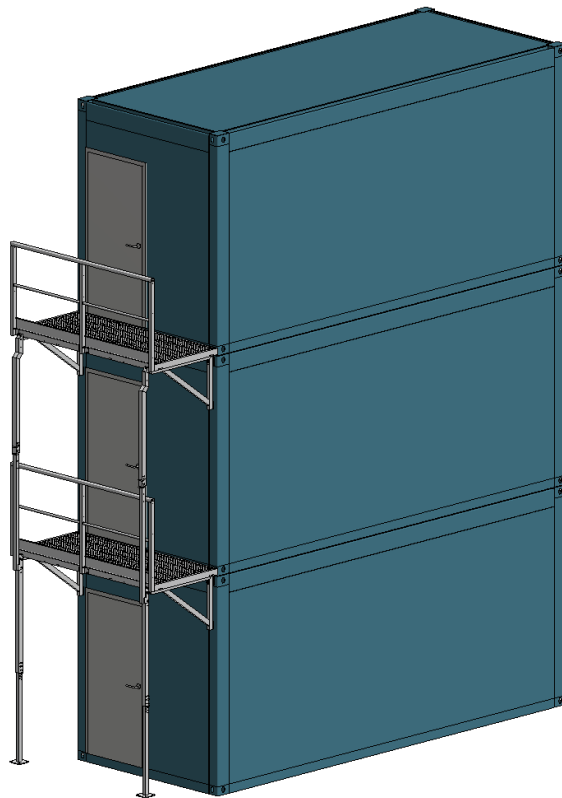


Figure 8. Configuration 7

* where n =number of containers in a row

Components of SK3 Var7 for container heights 2590,2800,2960mm			
No.	Designation	Component description	Qty
	Width 1.1		
4.	SK3-P11	Landing 2440x1100 checkered plate	2
	SK3-P6	Landing 2440x1250 checkered plate	
10.	SK3-B6	Landing handrail 2440 industrial	2
13.	SK3-PR3	Post 01	1+n*
14.	SK3-PR2	Post 01	1+n*
16.	SK3-W1	Landing bracket 1100	4
	SK3-W3	Bracket for storage containers 1100 left	2
	SK3-W5	Bracket for storage containers 1100 right	
	SK3-W2	Landing bracket 1250	4
	SK3-W4	Bracket for storage containers 1250 left	2
	SK3-W6	Bracket for storage containers 1250 right	
32.	SK3-ZW1	Bracket clamp	4
A.	ISO 4014 M10x100 A2	Bolt M10x100 A2	26
D.	ISO 4014 M10x65 A2	Bolt M10x65 A2	16
I.	ISO 4032 M10 A2	Nut M10 A2	42
J.	ISO 4032 M12 A2	Nut M12 A2	4
K.	ISO 7089 10	Washer 10 A2	76
L.	ISO 7089 12	Washer 12 A2	8

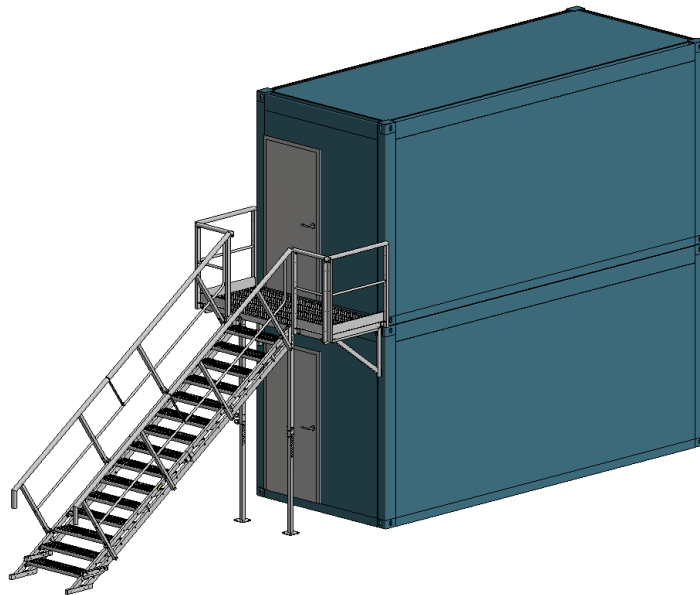


Figure 9. Configuration 8

*List of additional components for heights 2800mm and 2960mm on page 15.

Components of SK3 Var8 for container height 2590mm*			
No.	Designation	Component description	Qty
		Width 1.1/1.25	
1.	SK3-S2	Upper stair flight 1100	1
	SK3-S4	Upper stair flight 1250	
2.	SK3-S1	Lower stair flight 1100	1
	SK3-S3	Lower stair flight 1250	
4.	SK3-P11	Landing 2440x1100 checkered plate	1
	SK3-P6	Landing 2440x1250 checkered plate	
7.	SK3-B7	Landing handrail 500 industrial	1
	SK3-B8	Landing handrail 610 industrial	1
8.	SK3-B9	Landing handrail 1100 industrial	1
	SK3-B10	Landing handrail 1250 industrial	1
11.	SK3-BS2	Stair handrail, left lower, industrial	1
	SK3-BS3	Stair handrail, right lower, industrial	
12.	SK3-BS5	Stair handrail, left upper, industrial	1
	SK3-BS6	Stair handrail, right upper, industrial	
13.	SK3-PR3	Post 01	2
	SK3-W1	Landing bracket 1100	2
	SK3-W3	Bracket for storage containers 1100 left	1
	SK3-W5	Bracket for storage containers 1100 right	
16.	SK3-W2	Landing bracket 1250	2
	SK3-W4	Bracket for storage containers 1250 left	1
	SK3-W6	Bracket for storage containers 1250 right	
22.	SK3-L4	Handrail connector	2
26.	SK3-L6	Handrail connector	2
30.	SK3-L9	Lower stair connector	2
31.	SK3-L8	Upper stair connector	2
32.	SK3-ZW1	Bracket clamp	2
A.	ISO 4014 M10x100 A2	Bolt M10x100 A2	14
B.	ISO 4014 M10x120 A2	Bolt M10x120 A2	8
C.	ISO 4014 M10x80 A2	Bolt M10x80 A2	8
D.	ISO 4014 M10x65 A2	Bolt M10x65 A2	18
F.	ISO 4014 M12x160 A2	Bolt M12x160 A2	2
I.	ISO 4032 M10 A2	Nut M10 A2	70
J.	ISO 4032 M12 A2	Nut M12 A2	2
K.	ISO 7089 10	Washer 10 A2	114
L.	ISO 7089 12	Washer 12 A2	4
O.	ISO 4762 M10x25 A2	Hexagon socket head cap screw M10x25 A2	22

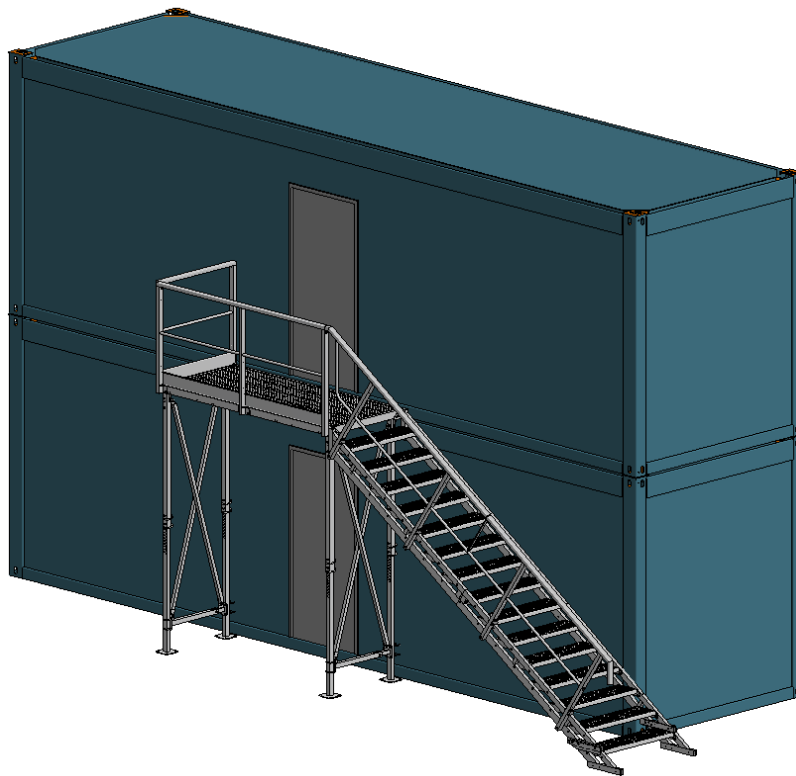


Figure 10. Configuration 10

* List of additional components for heights 2800mm and 2960mm on page 15.

Components of SK3 Var10 for container height 2590mm*			
No.	Designation	Component description	Qty
Width 1.1/1.25			
1.	SK3-S2	Upper stair flight 1100	1
	SK3-S4	Upper stair flight 1250	
2.	SK3-S1	Lower stair flight 1100	1
	SK3-S3	Lower stair flight 1250	
4.	SK3-P11	Landing 2440x1100 checkered plate	1
	SK3-P6	Landing 2440x1250 checkered plate	
8.	SK3-B9	Landing handrail 1100 industrial	1
	SK3-B10	Landing handrail 1250 industrial	
10.	SK3-B6	Landing handrail 2440 industrial	1
11.	SK3-BS2	Stair handrail, left lower, industrial	1
	SK3-BS3	Stair handrail, right lower, industrial	
12.	SK3-BS5	Stair handrail, left upper, industrial	1
	SK3-BS6	Stair handrail, right upper, industrial	
13.	SK3-PR3	Post 01	4
19.	SK3-O1	Bracing crossbeam	2
20.	SK3-PS1	Bracing	4
21.	SK3-A1	Bracing connector	4
22.	SK3-L4	Handrail connector	1
23.	SK3-L1	Landing-container connector 01	2
30.	SK3-L9	Lower stair connector	2
31.	SK3-L8	Upper stair connector	2
A.	ISO 4014 M10x100 A2	Bolt M10x100 A2	6
B.	ISO 4014 M10x120 A2	Bolt M10x120 A2	4
C.	ISO 4014 M10x80 A2	Bolt M10x80 A2	4
D.	ISO 4014 M10x65 A2	Bolt M10x65 A2	15
H.	ISO 4017 M12x30 A2	Bolt M12x30 A2	8
I.	ISO 4032 M10 A2	Nut M10 A2	47
J.	ISO 4032 M12 A2	Nut M12 A2	18
K.	ISO 7089 10	Washer 10 A2	48
L.	ISO 7089 12	Washer 12 A2	36
O.	ISO 4762 M10x25 A2	Hexagon socket head cap screw M10x25 A2	18

2.1. Additional components for container heights

The tables below contain additional components required to adjust the system height to container heights of 2800mm and 2960mm.

Additional components for container height 2800mm		
Index	Component description	Qty
Width 1.1/ 1.25		
SK3-FS6	Extension beam 1 right	1
SK3-FS5	Extension beam 1 left	1
SK3-ST1/SK3-ST2	Step ST1/ Step ST2	1
ISO 7089 10	Washer ISO 7089 A2-10 - 200 HV	16
M-Z-N-SZ-10-K-A2	Cap nut A2 - M10	10
M-Z-S-IM-10X20-A2	Screw ISO 4762 A2 - M10 x 20	4
M-Z-S-IM-10X65-A2	Screw ISO 4762 A2 - M10 x 65	6

Additional components for container height 2960mm		
Index	Component description	Qty
Width 1.1/ 1.25		
SK3-FS8	Extension beam 2 right	1
SK3-FS7	Extension beam 2 left	1
SK3-ST1/SK3-ST2	Step ST1/ Step ST2	2
ISO 7089 10	Washer ISO 7089 A2-10 - 200 HV	20
M-Z-N-SZ-10-K-A2	Cap nut A2 - M10	14
M-Z-S-IM-10X20-A2	Screw ISO 4762 A2 - M10 x 20	8
M-Z-S-IM-10X65-A2	Screw ISO 4762 A2 - M10 x 65	6

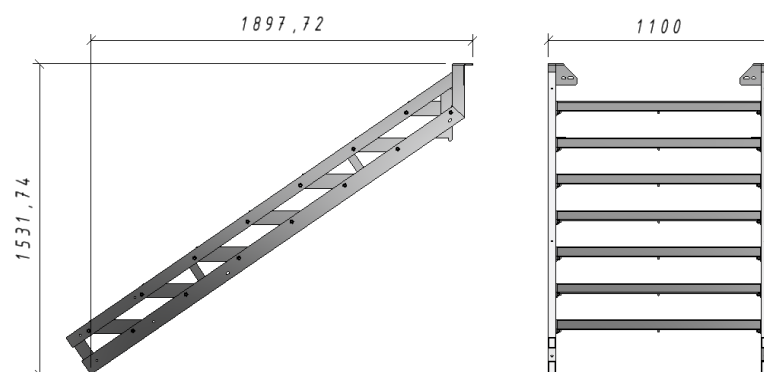
2.2. Industrial handrails, safety handrails

The table below shows industrial handrails and their counterparts that meet the safety handrail requirements.

Replaceable components, industrial - safety handrail		
Industrial	<=>	Safety
SK3-B5		SK3-B5b
SK3-B6		SK3-B6b
SK3-B7		SK3-B7b
SK3-B8		SK3-B8b
SK3-B9		SK3-B9b
SK3-B10		SK3-B10b
SK3-BS2		SK3-BS7
SK3-BS3		SK3-BS8
SK3-BS5		SK3-BS10
SK3-BS6		SK3-BS9

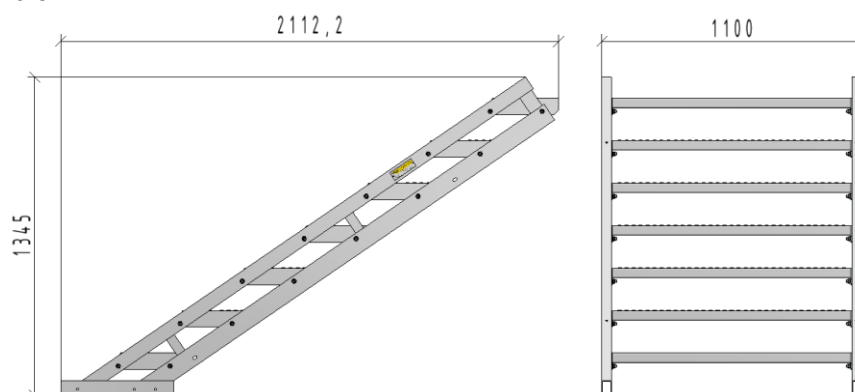
2.3. Graphical list of components

P-SK3-SB-G / SK3-S2



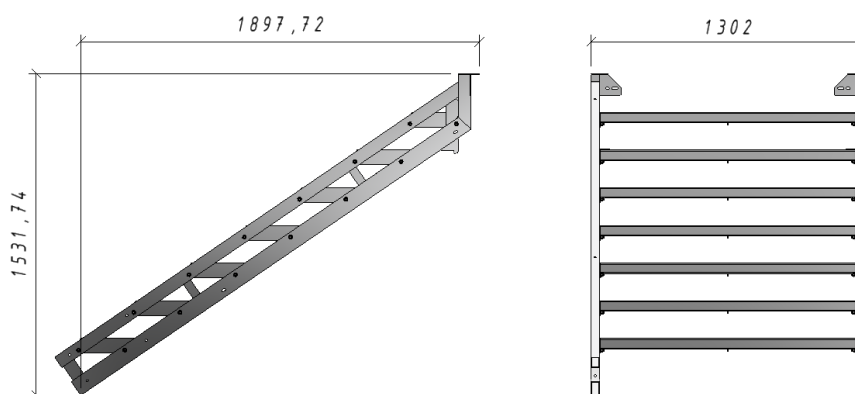
Masa: 43,693 kg

P-SK3-SB-D / SK3-S1



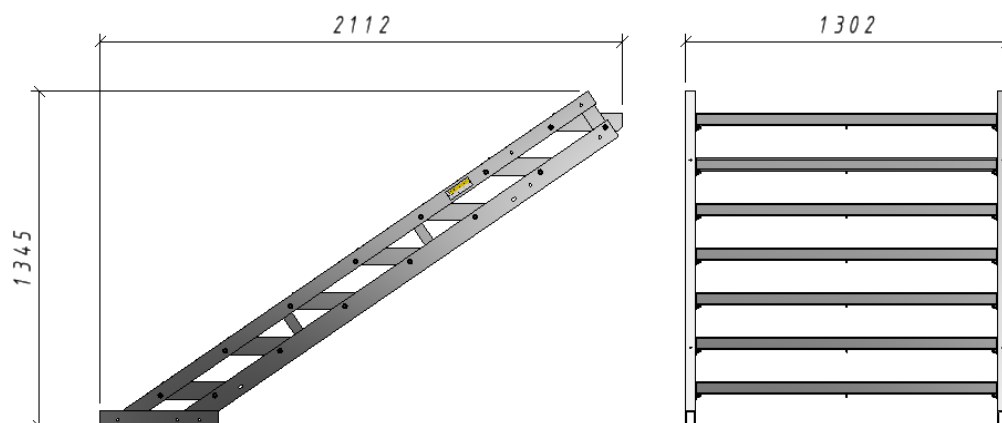
Masa: 42,802 kg

SK3-S4



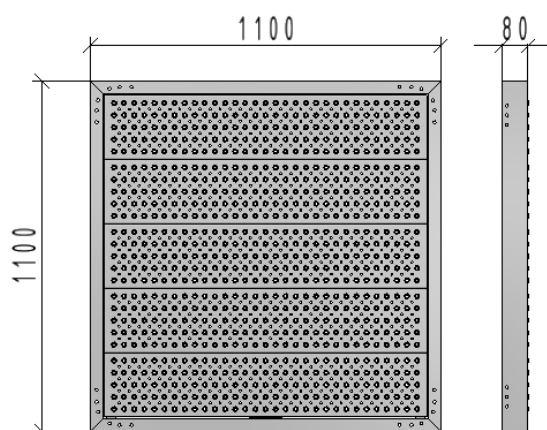
Masa: 52,774 kg

SK3-S3



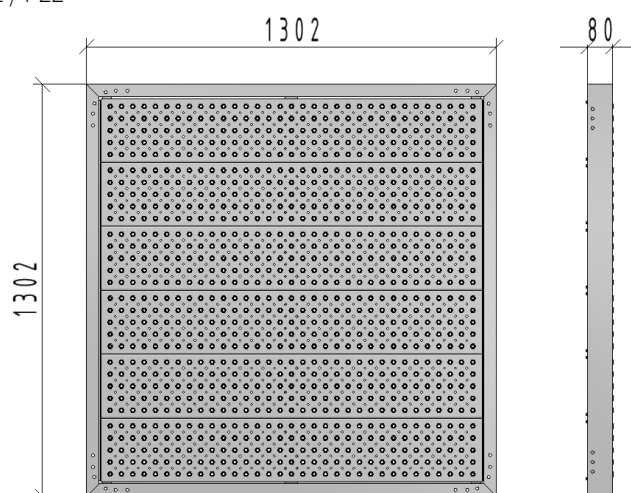
Mass: 50,635 kg

P-SK3-PD1.1-P / SK3-P1 / P21



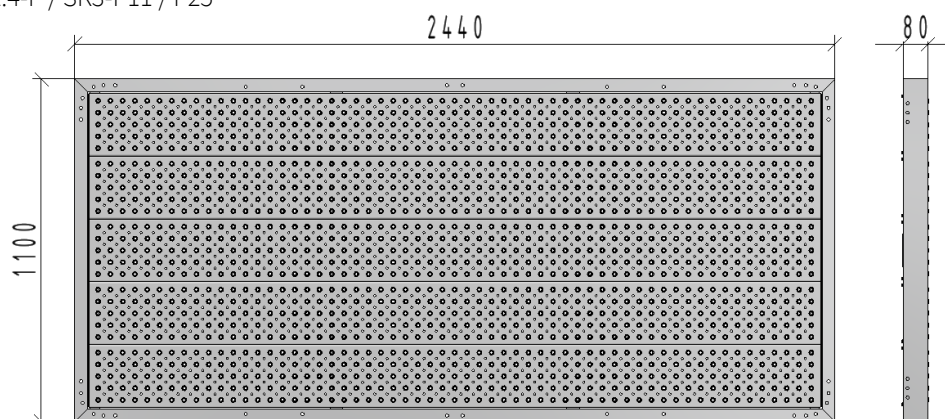
Mass: 18,649 kg

P-SK3-PD-1.25-P / SK3-P2 / P22



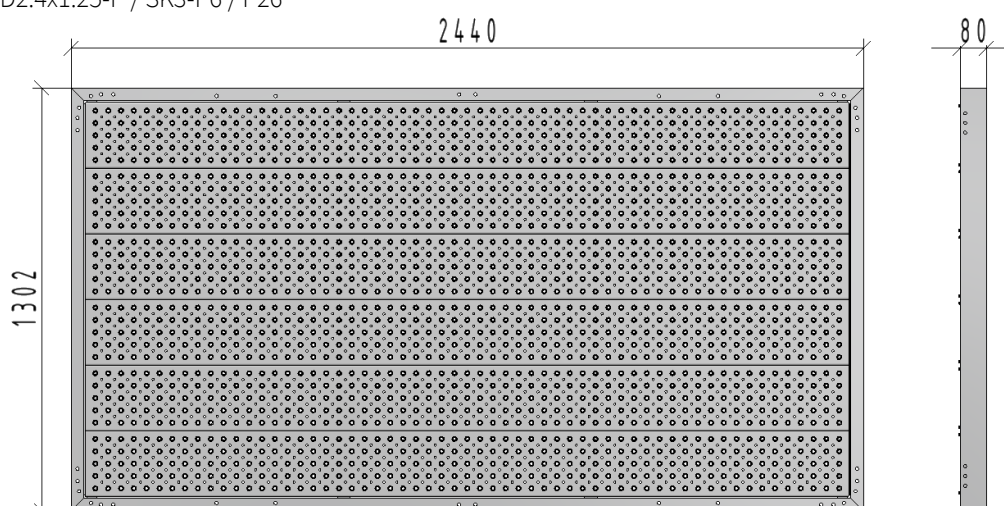
Mass: 26,173 kg

P-SK3-PD2.4-P / SK3-P11 / P25



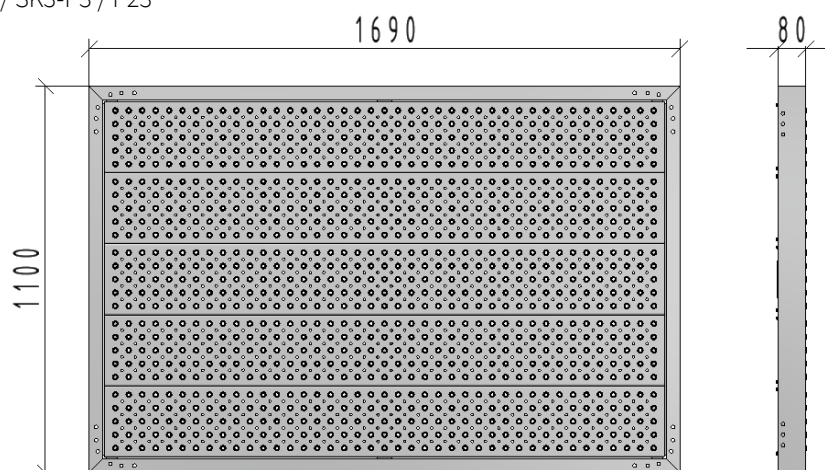
Mass: 38,868 kg

P-SK3-PD2.4x1.25-P / SK3-P6 / P26



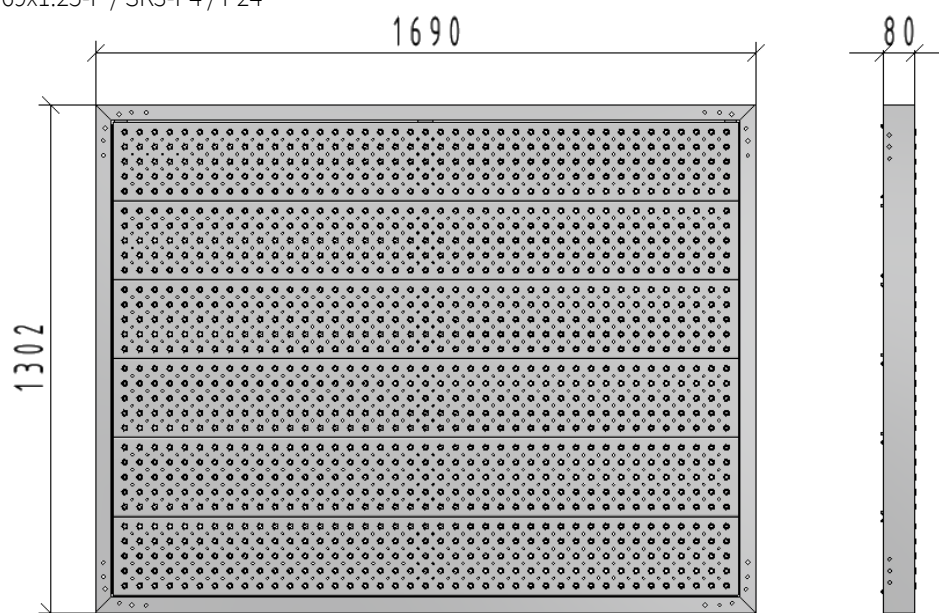
Mass: 45,224 kg

P-SK3-PD1.69-P / SK3-P3 / P23



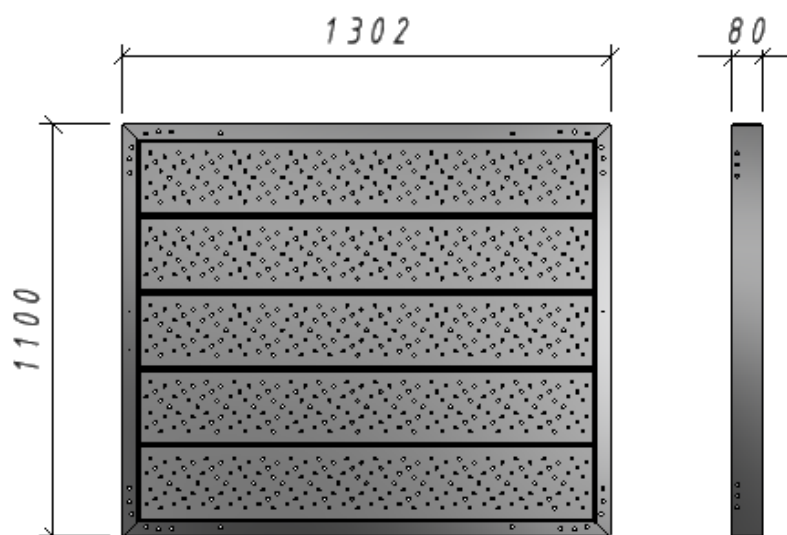
Mass: 27,854 kg

P-SK3-PD1.69x1.25-P / SK3-P4 / P24

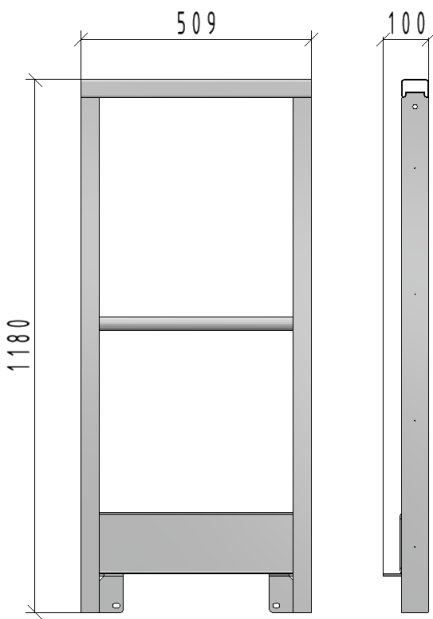
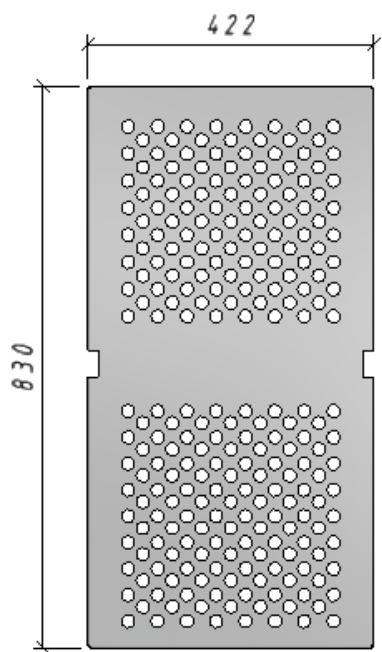
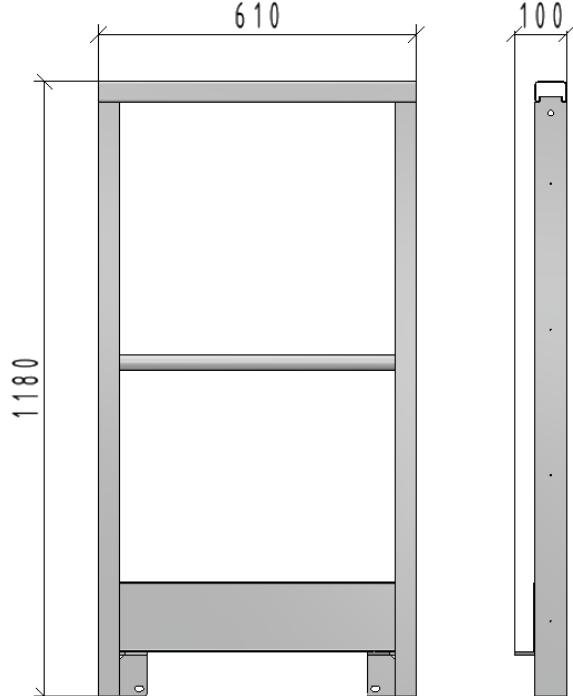
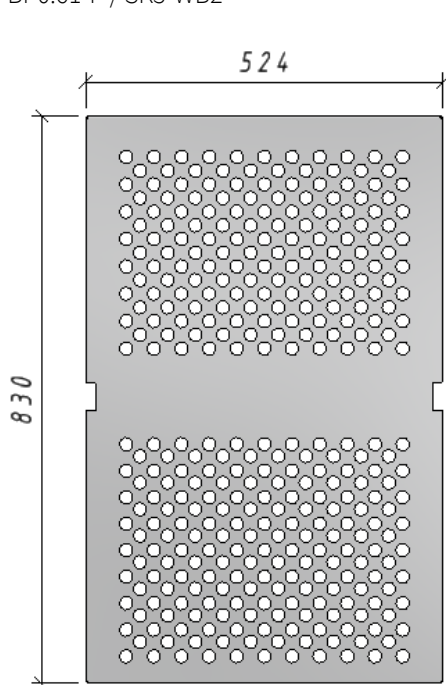


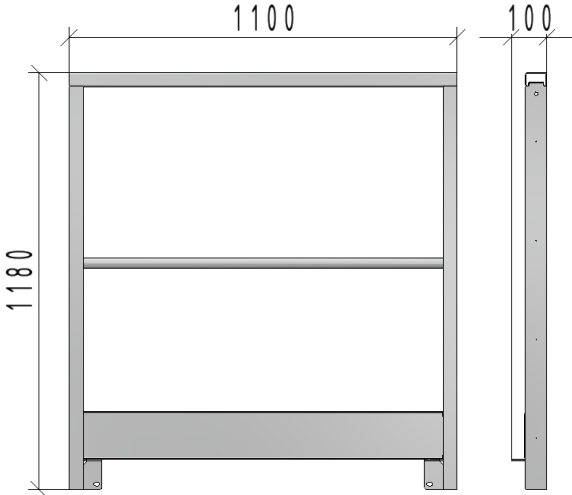
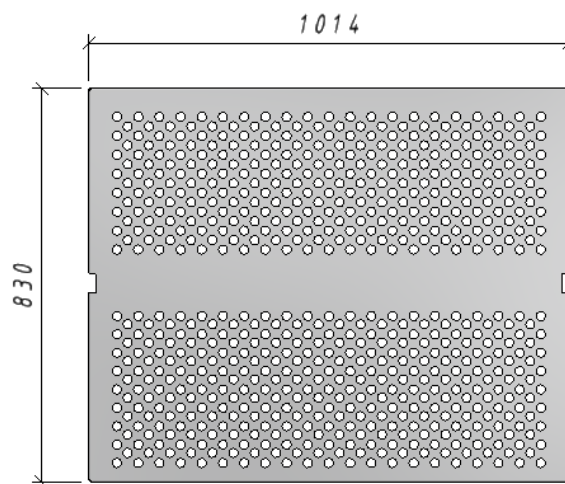
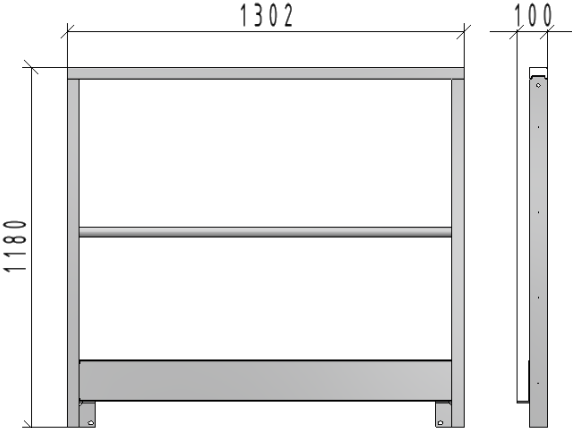
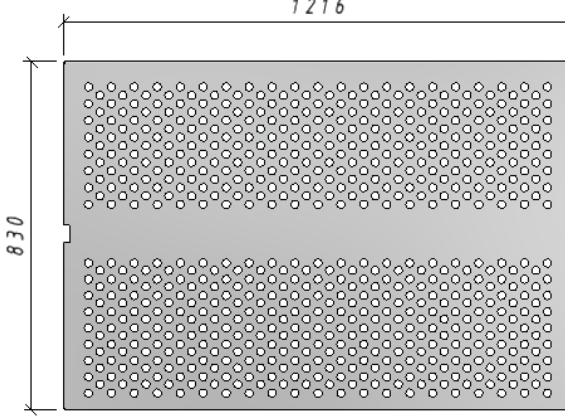
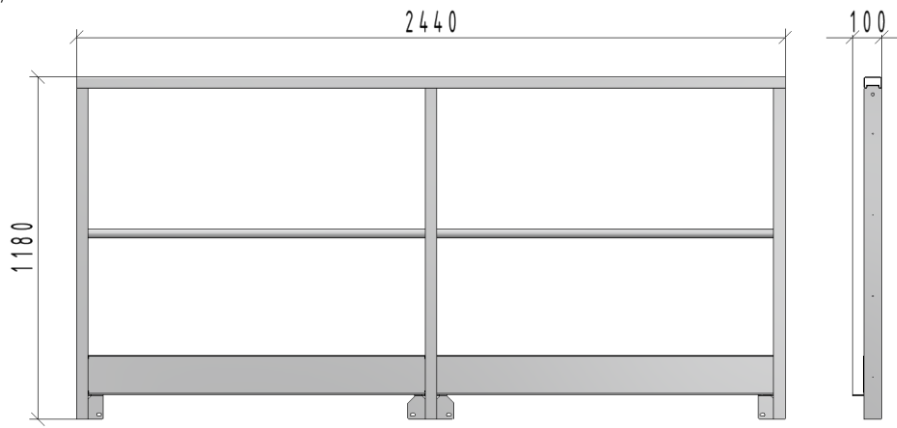
Mass: 32,183 kg

SK3-P14 / P27

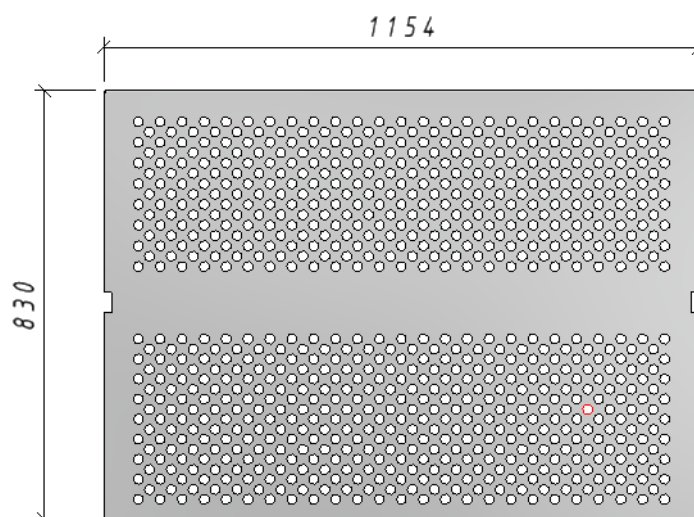


Mass: 22,1 kg

P-SK3-BP0.5 / SK3-B7  Mass: 5,011 kg	P-SK3-BP0.5-P / SK3-WB1  Mass: 1,336 kg
P-SK3-BP0.61 / SK3-B8  Mass: 5,292 kg	P-SK3-BP0.61-P / SK3-WB2  Mass: 1,579 kg

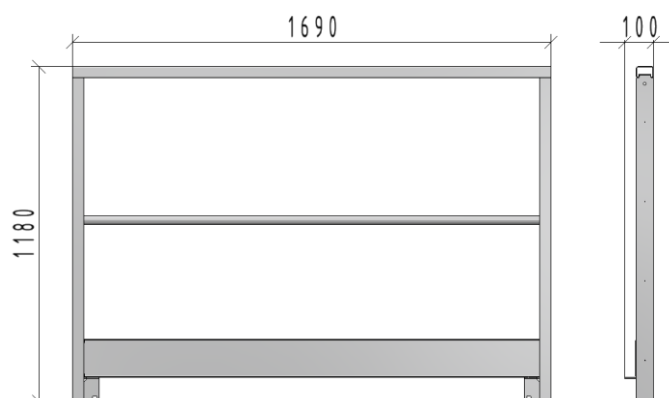
P-SK3-BP1.1 / SK3-B9  Mass: 6,657 kg	P-SK3-BP1.1-P / SK3-WB3  Mass: 2,923 kg
P-SK3-BP1.25 / SK3-B10  Mass: 7,219 kg	P-SK3-BP1.25-P / SK3-WB4  Mass: 3,645 kg
P-SK3-BP2.4 / SKB-B12  Mass: 12,303 kg	

P-SK3-BP2.4-P / SK3-WB6



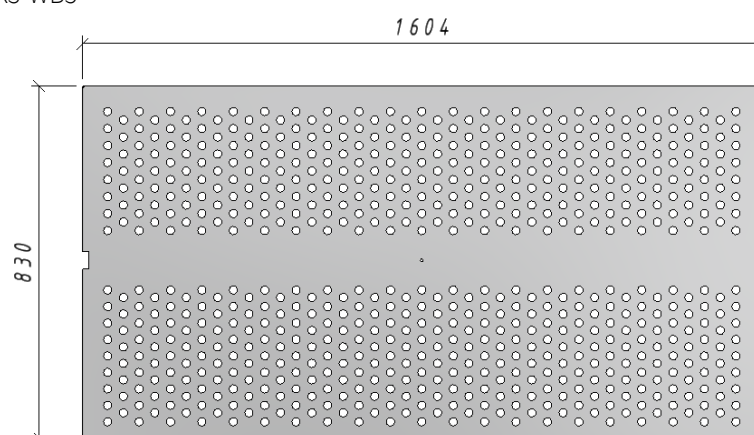
Mass: 3,261 kg

P-SK3-BP1.69 / SK3-B11



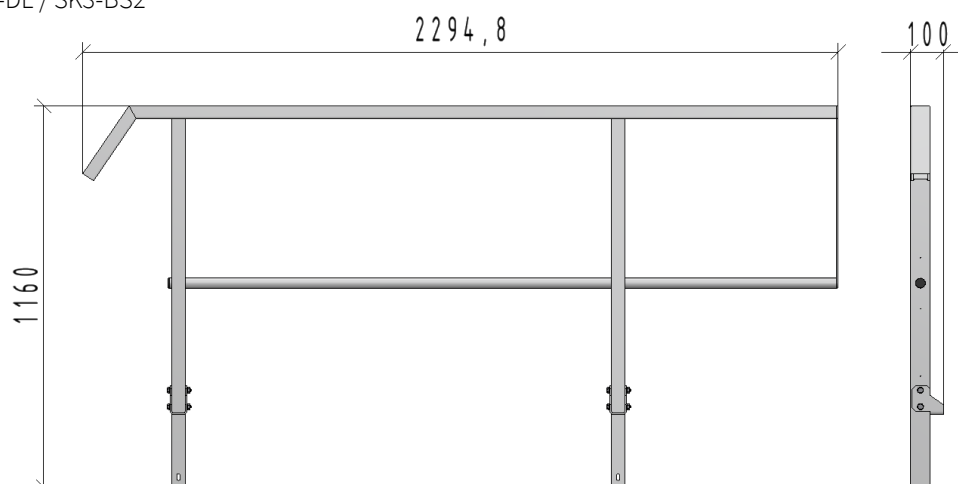
Mass: 8,299 kg

P-SK3-BP1.69-P / SK3-WB5



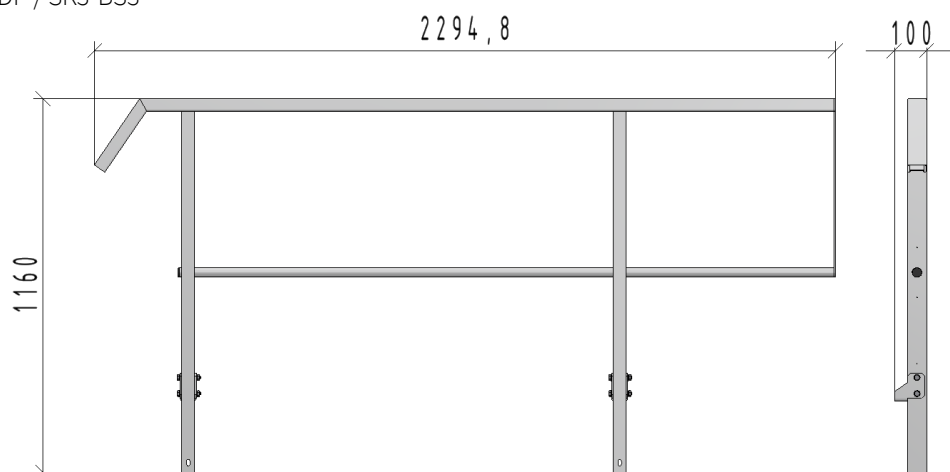
Mass: 5,032 kg

P-SK3-BS-DL / SK3-BS2



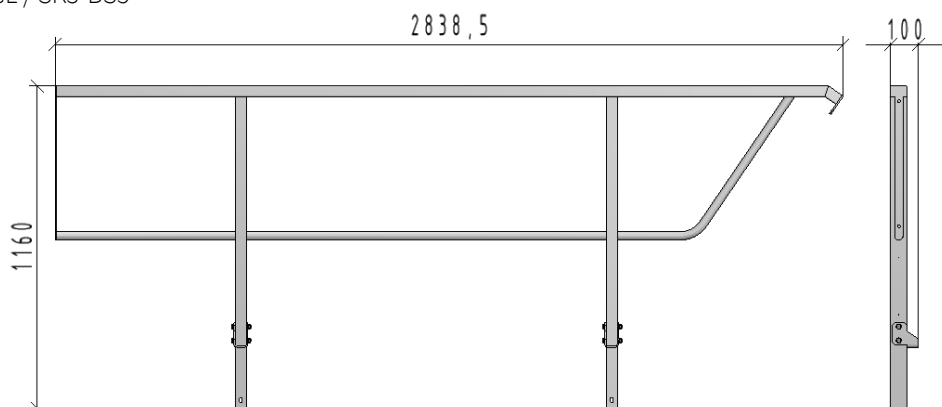
Mass: 7,385 kg

P-SK3-BS-DP / SK3-BS3



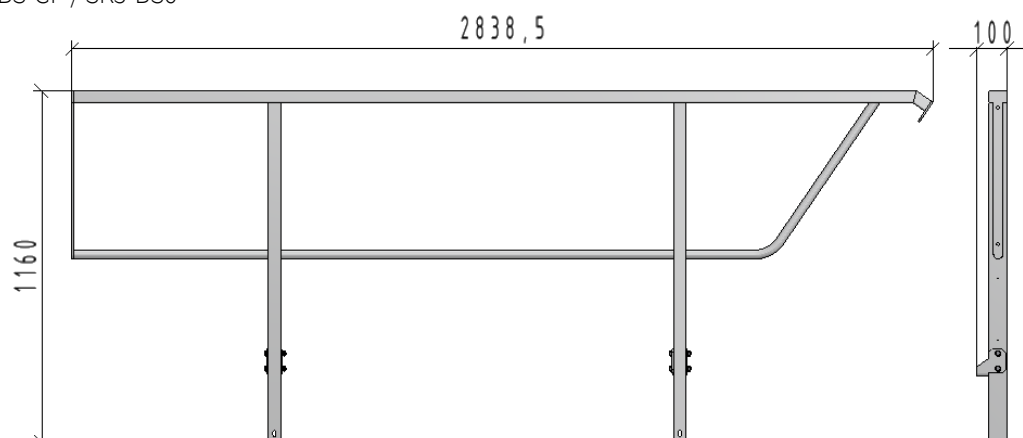
Mass: 7,385 kg

P-SK3-BS-GL / SK3-BS5



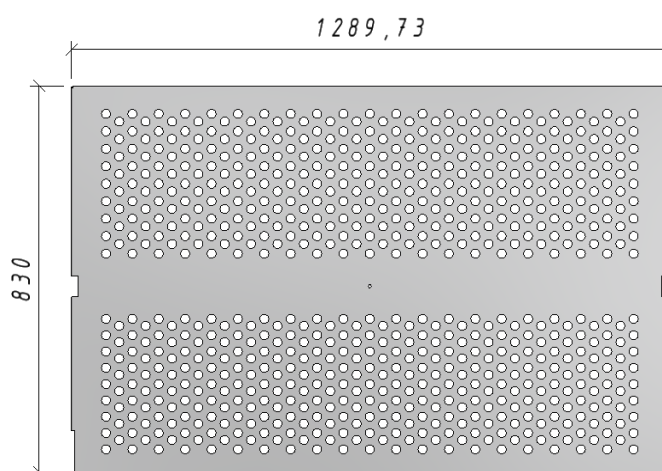
Mass: 8,328 kg

P-SK3-BS-GP / SK3-BS6



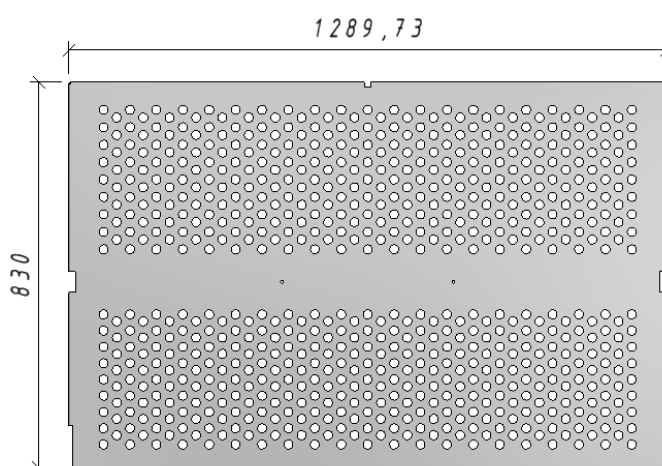
Mass: 8,328 kg

P-SK3-BS-P1 / SK3-WB7



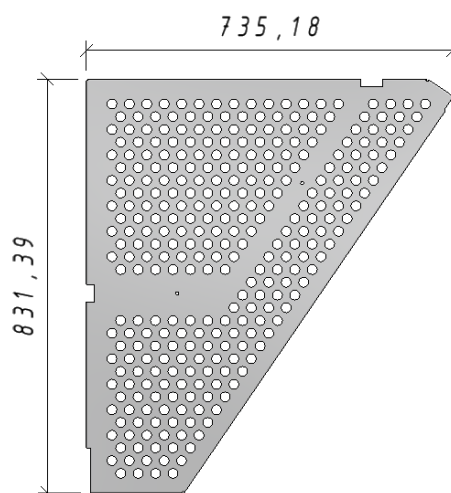
Mass: 3,833 kg

P-SK3-BS-P3 / SK3-WB9



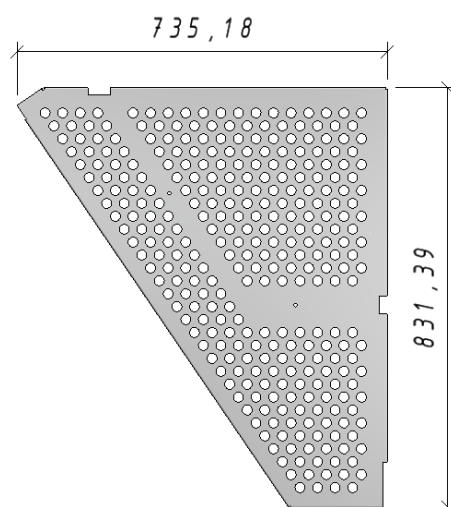
Mass: 3,830 kg

P-SK3-BS-P2L SK3-WB9



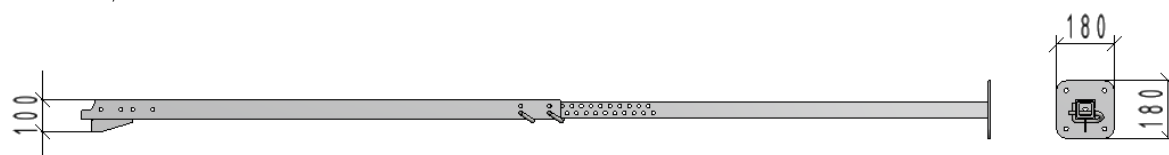
Mass: 1,481 kg

P-SK3-BS-P2P SK3-WB8



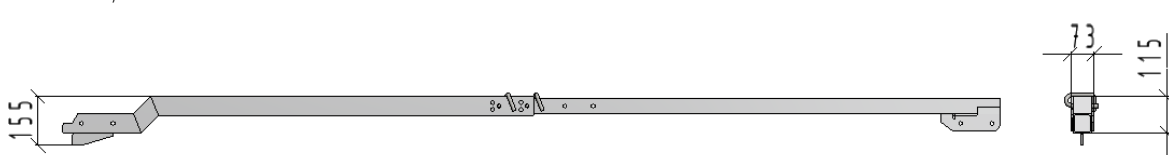
Mass: 1,481 kg

P-SK3-PR1 / SK3-PR3

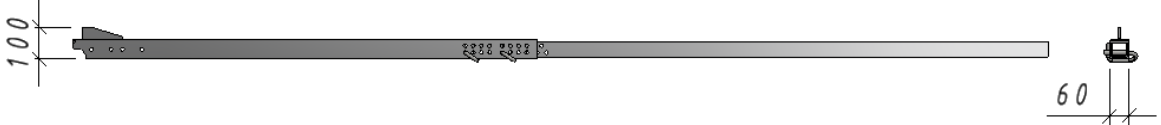
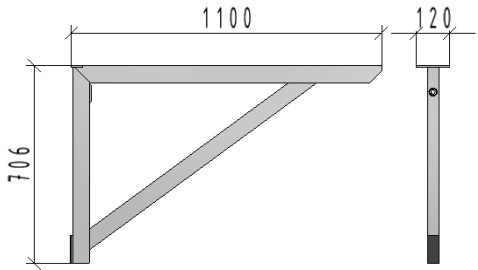
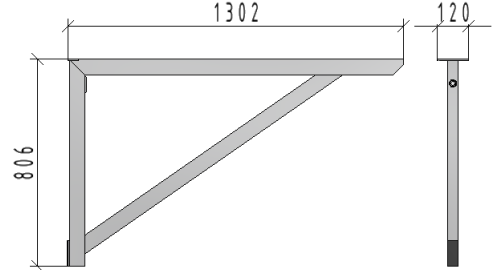
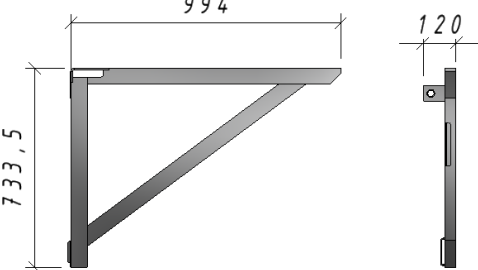
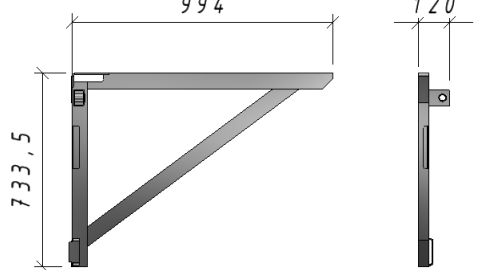
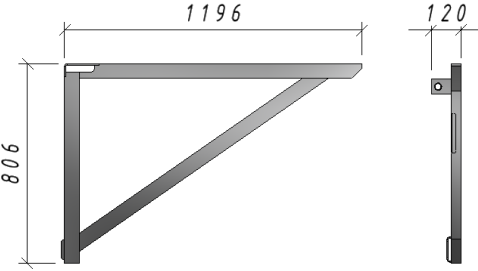
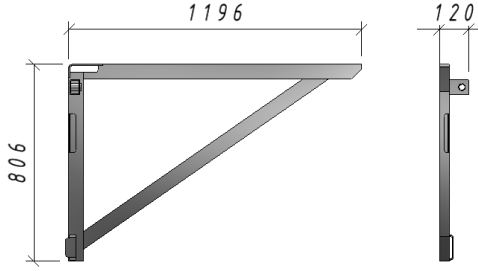
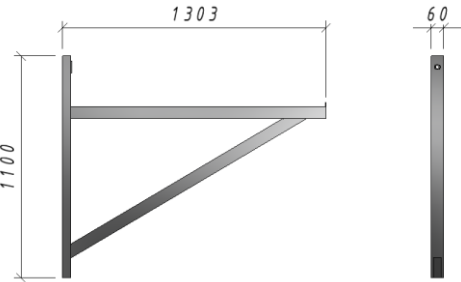


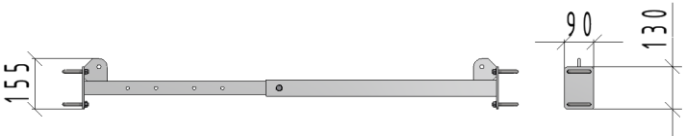
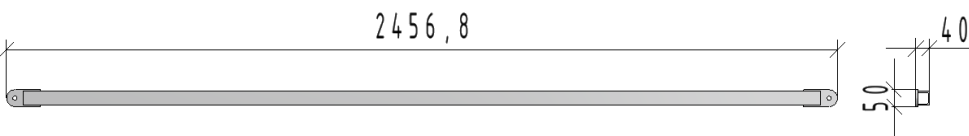
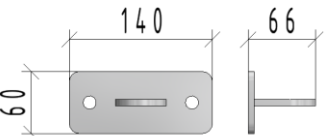
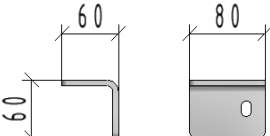
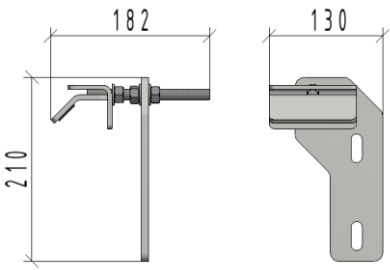
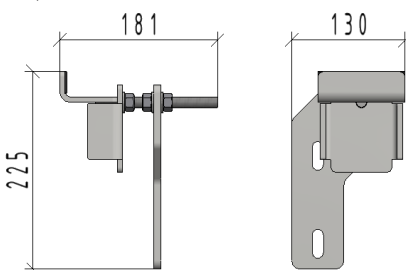
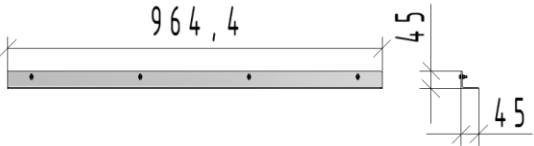
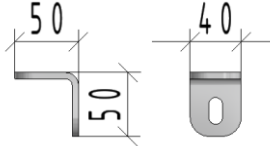
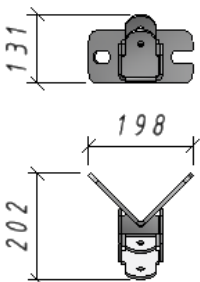
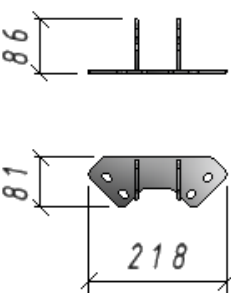
Mass: 9,446 kg

P-SK3-PR2 / SK3-PR2

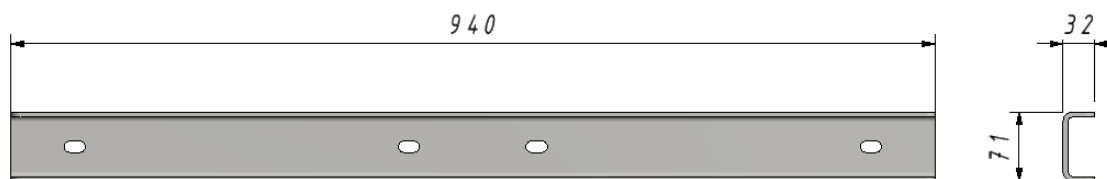


Mass: 9,532 kg

SK3-PR4  Mass: 6,421 kg	
P-SK3-WT1.1 / SK3-W1  Mass: 4,245 kg	P-SK3-WT-1.25 / SK3-W2  Mass: 5,037 kg
SK3-W3  Mass: 4,267 kg	SK3-W5  Mass: 4,267 kg
SK3-W4  Mass: 4,856 kg	SK3-W6  Mass: 4,856 kg
SK3-W7  Mass: 5,685 kg	

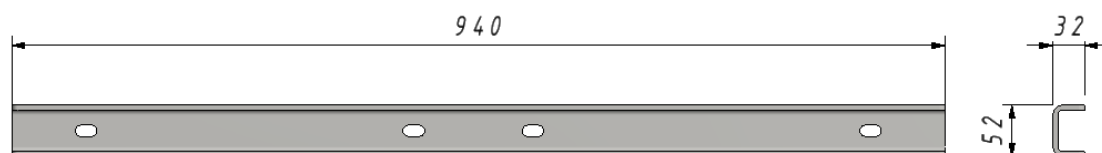
P-SK3-O1 / SK3- O1  Mass: 3,455 kg	
P-SK3-X1 / SK3-PS1  Mass: 2,985 kg	
P-SK3-A1 / SK3-A1  Mass: 0,172 kg	P-SK3-LP1 / SK3-L4  Mass: 0,137 kg
P-SK3-LP2 / SK3-L1  Mass: 1,777 kg	P-SK3-LP3 / SK3-L2  Mass: 2,086 kg
P-SK3-LP4 / SK3-L3  Mass: 0,712 kg	P-SK3-LP5 / SK3-L6  Mass: 0,041 kg
SK3-L17  Mass: 0,802 kg	SK3-L16  Mass: 0,306 kg

P-SK3-LP-SB1 / SK3-L7



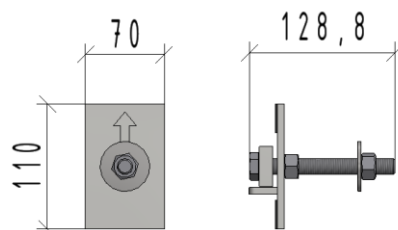
Mass: 4,440 kg

P-SK3-LP-SB2 / SK3-L8



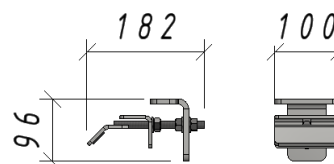
Mass: 3,871 kg

P-SK3-ZW / SK3-ZW1



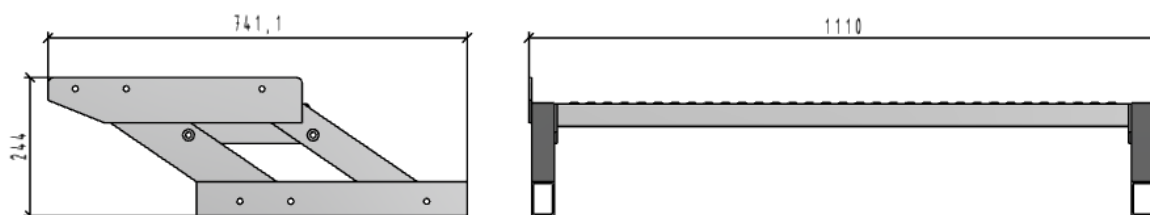
Mass: 0,874 kg

SK3-L18



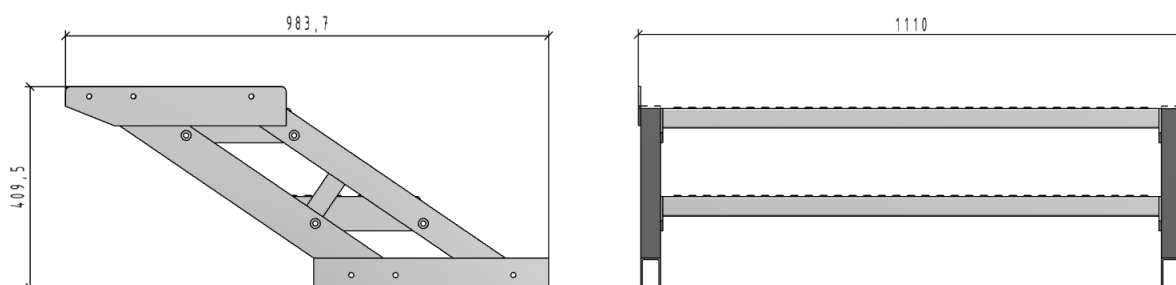
Mass: 1,443 kg

P-SK3-SB-FS1 / SK3-S5

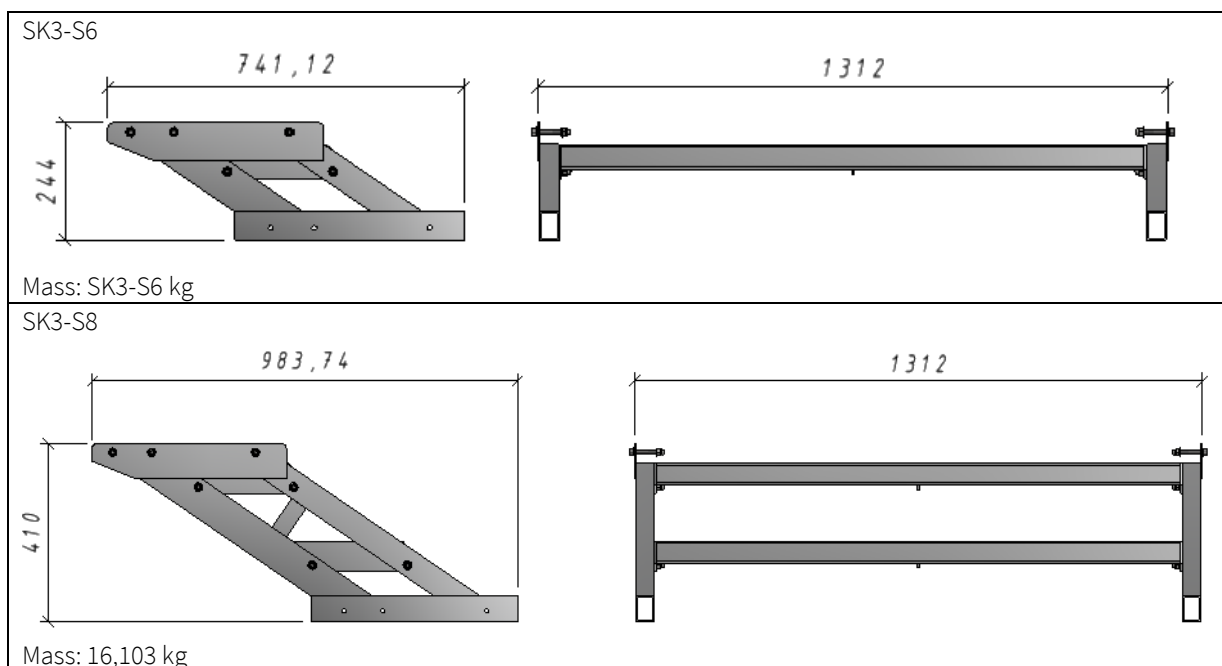


Mass: 13,400 kg

P-SK3-SB-FS2 / SK3-S7

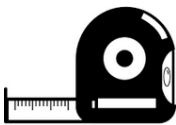
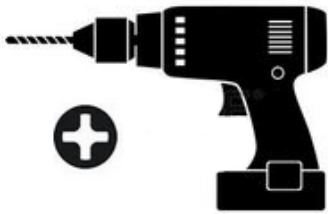


Mass: 3,087 kg



3. Tools necessary for installation of container stairs

Table 1. List of tools

	Spanners: 21,19,17,13,10
	Level
	Measuring tape
	Lifting device, min. load capacity 1t
	Cordless screwdriver with Phillips bit

4. Installation operations for individual components of the aluminum container stairs system

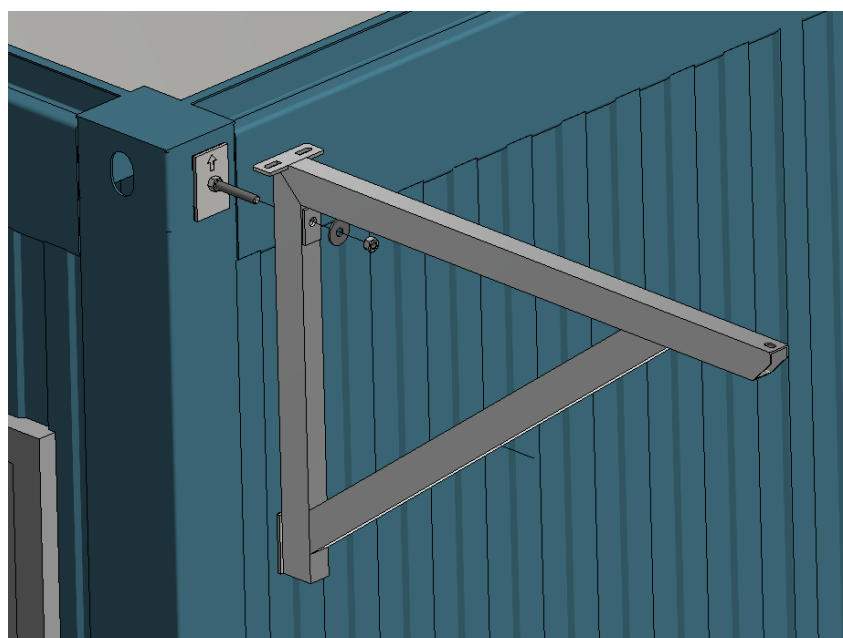
The installation manual has been prepared to present the method of installing individual components of the container stairs system.

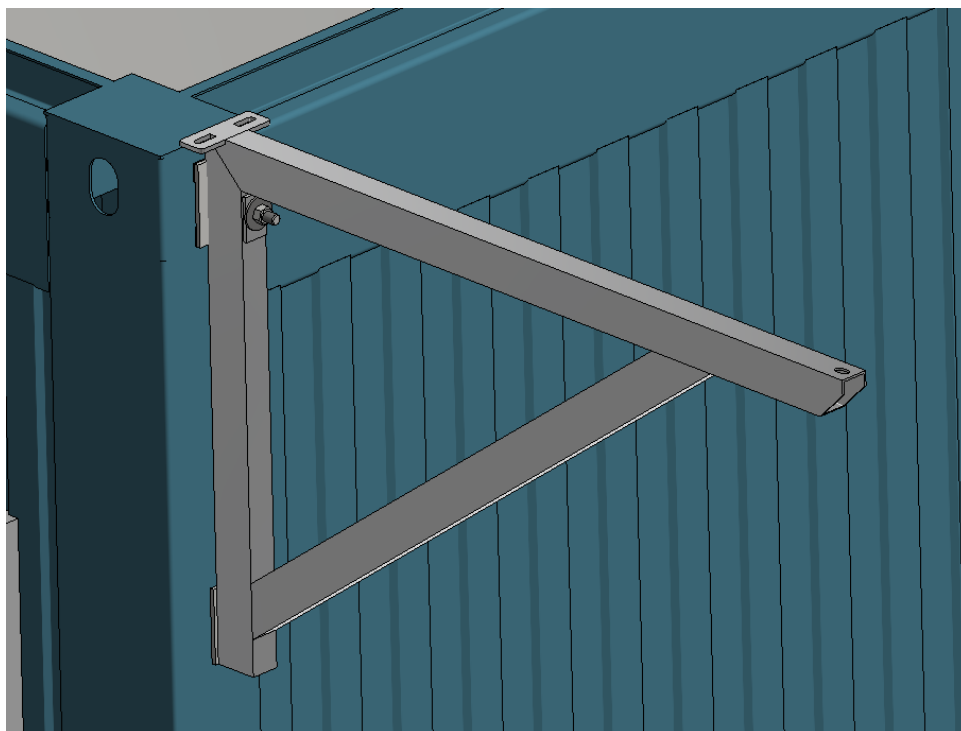
4.1. Installation of brackets





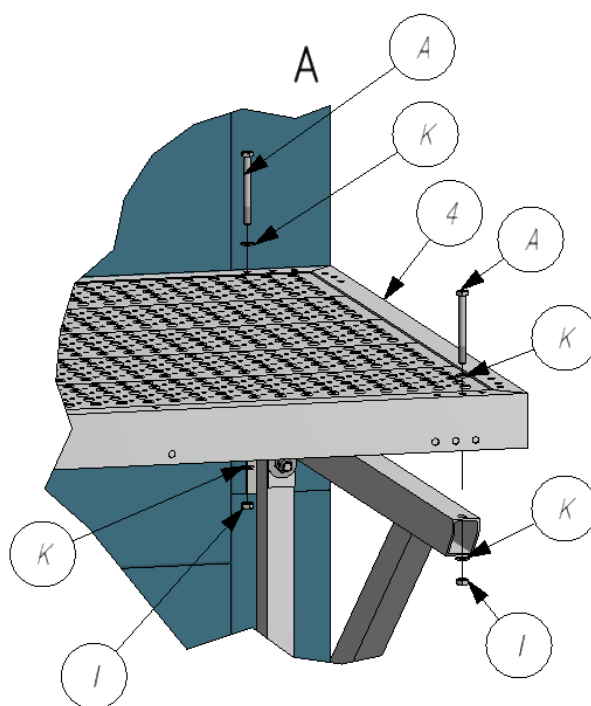
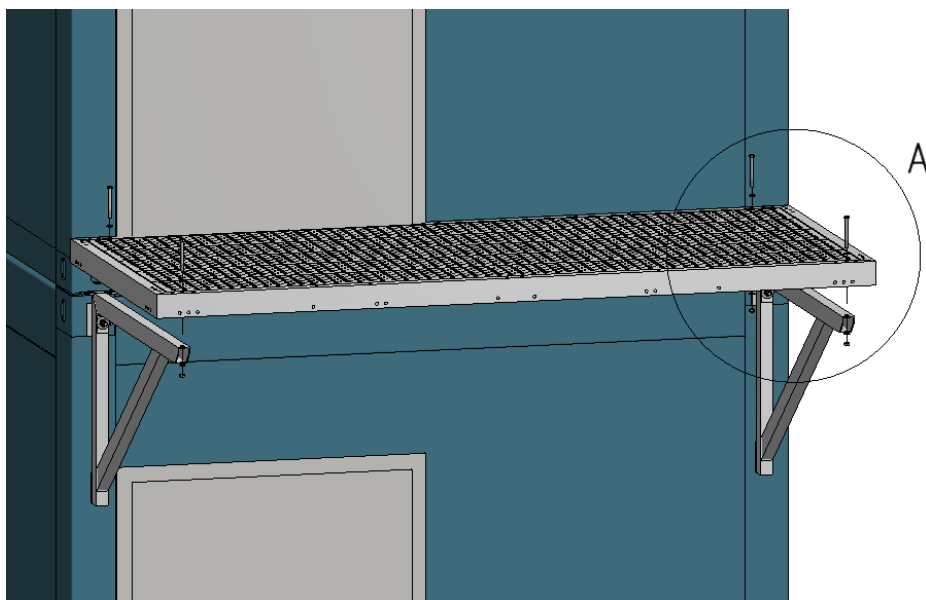
The bracket clamp plate must be positioned with the arrow pointing upwards.



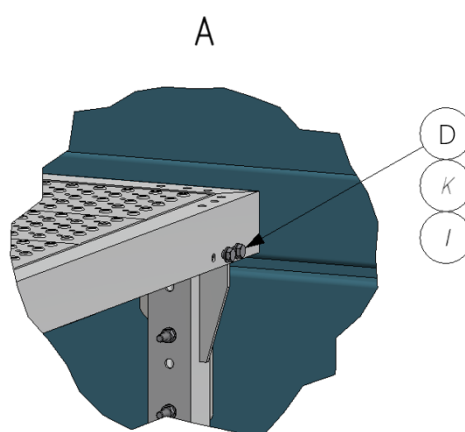
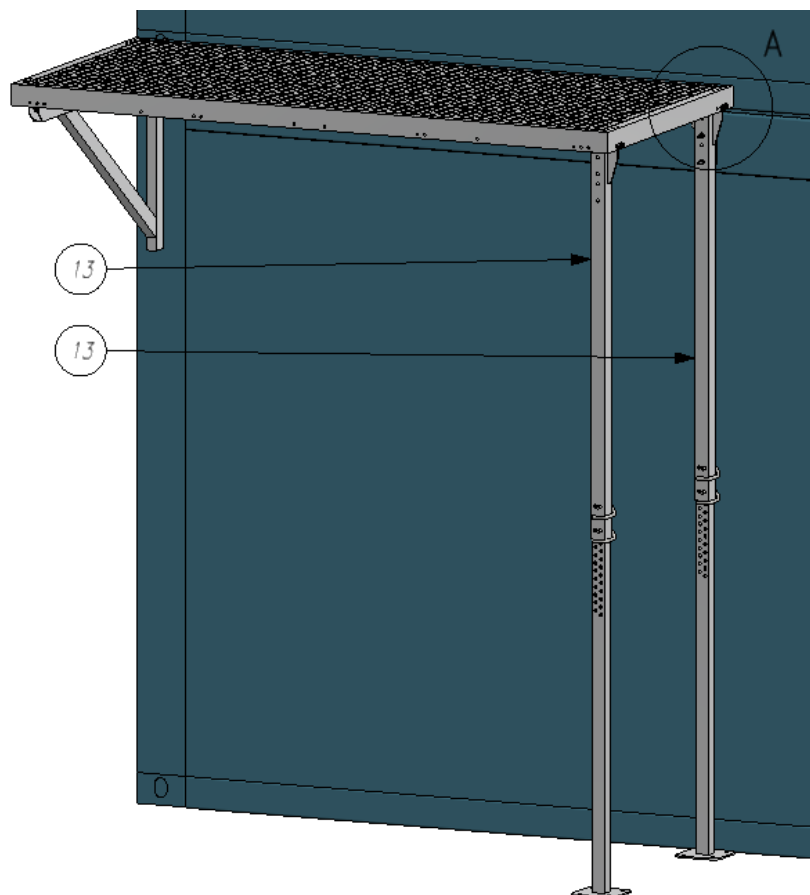


4.2. Assembly of landings

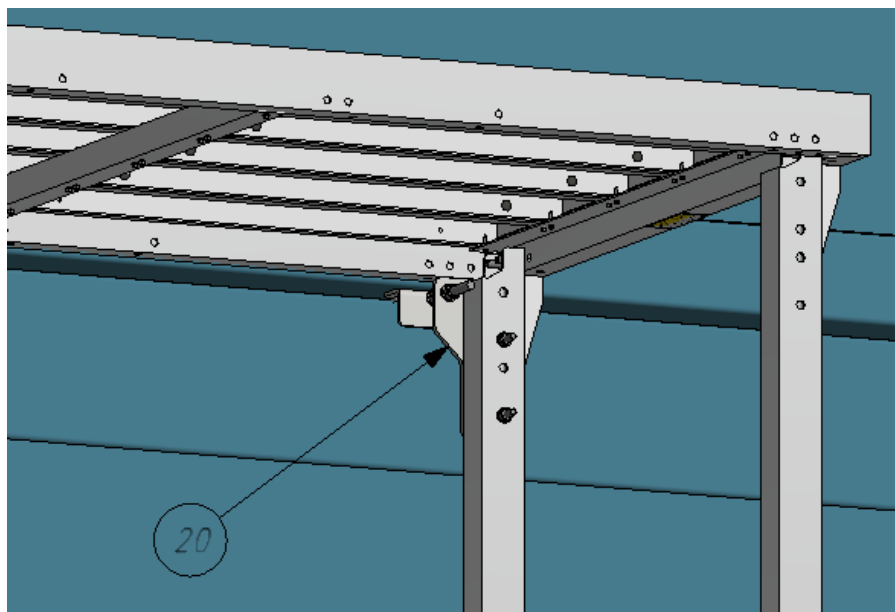
The landings are installed on supports.



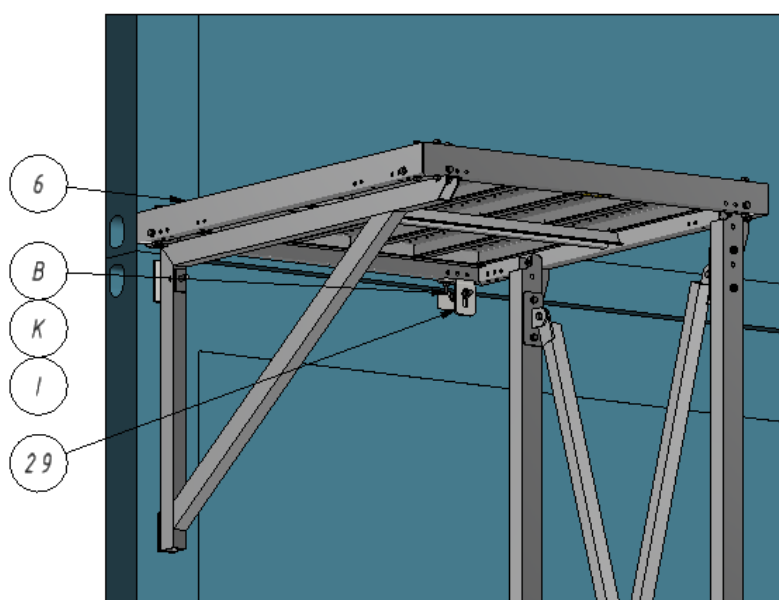
Post-mounted landings



The bolts used to screw the posts also serve for the assembly of the stairs
(see page 45).

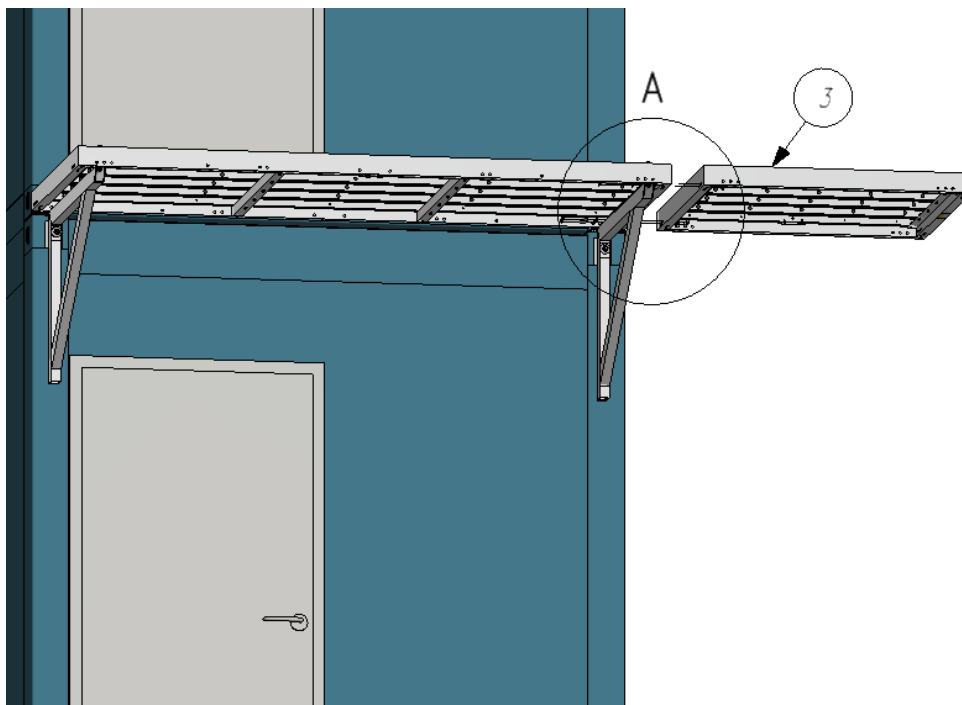


In the case of post-mounted landings, use the P-SK3-LP2 / P-SK3-LP3 connector to screw the structure to the container (Connector installation, page 53).

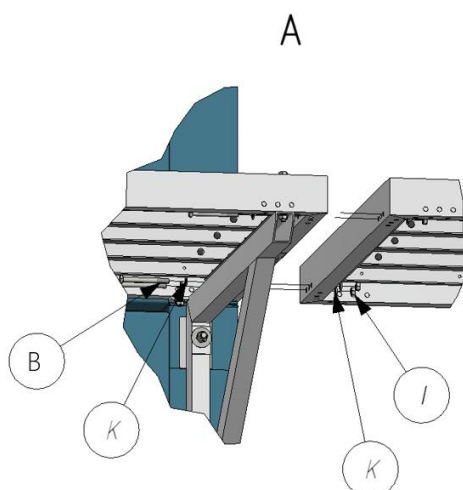


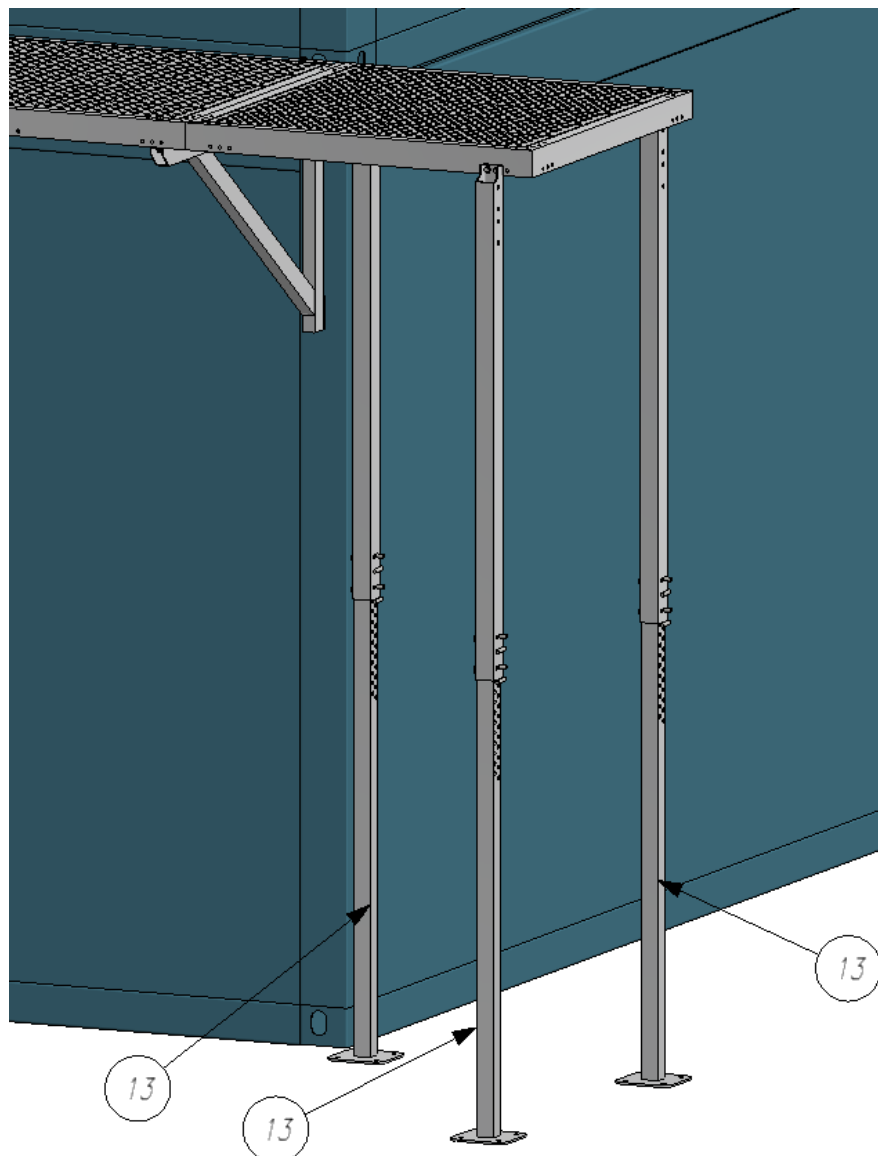
In the case of installing the SK3-P14 landing, the SK3-L18 connector must be used.

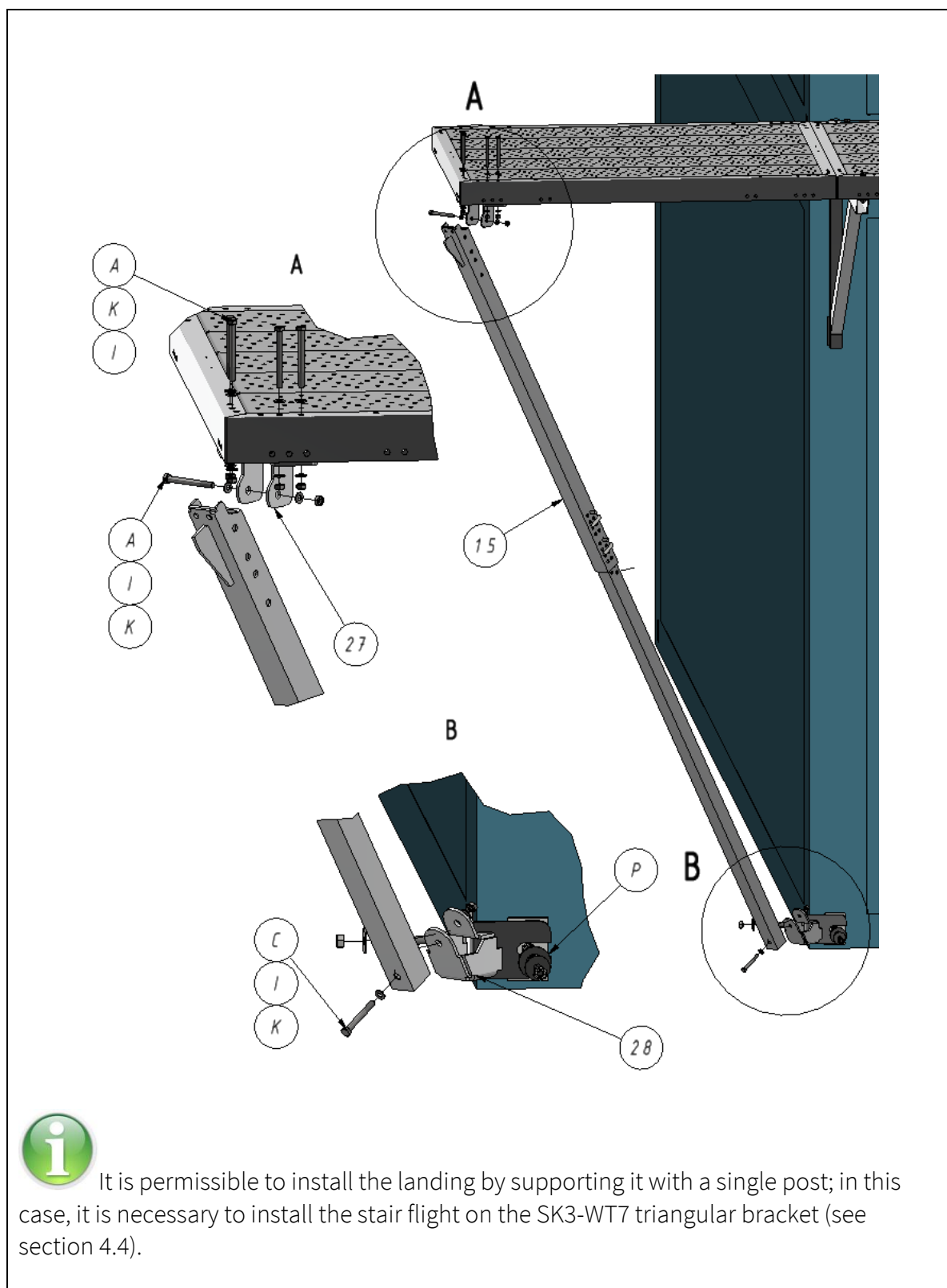
Connecting the landings



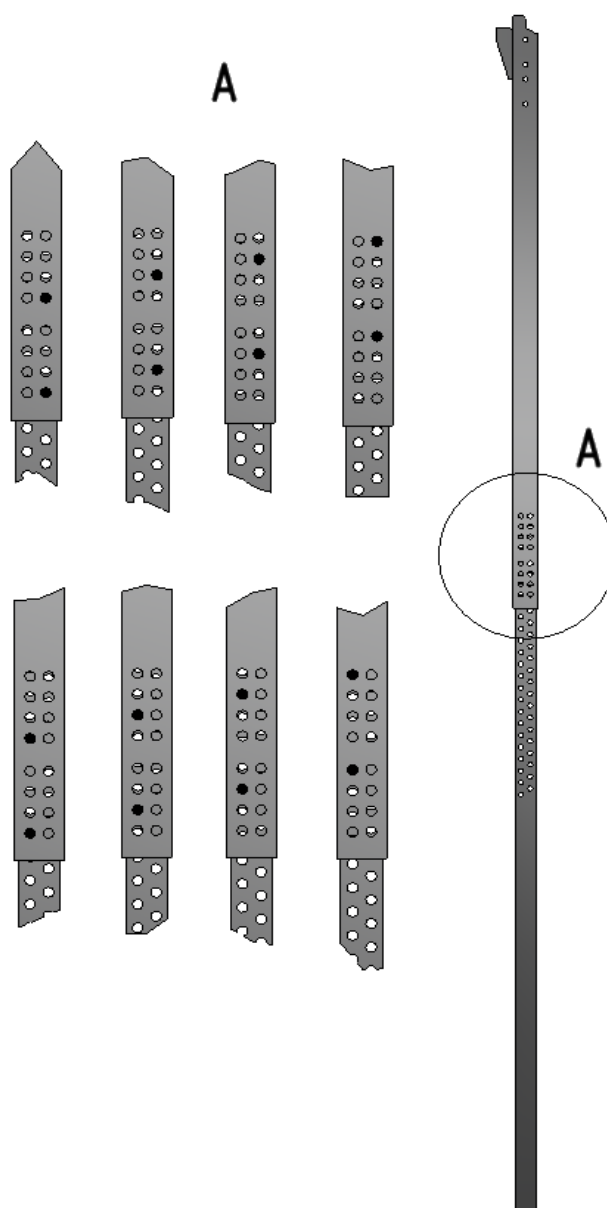
The landings must be connected using four bolts.





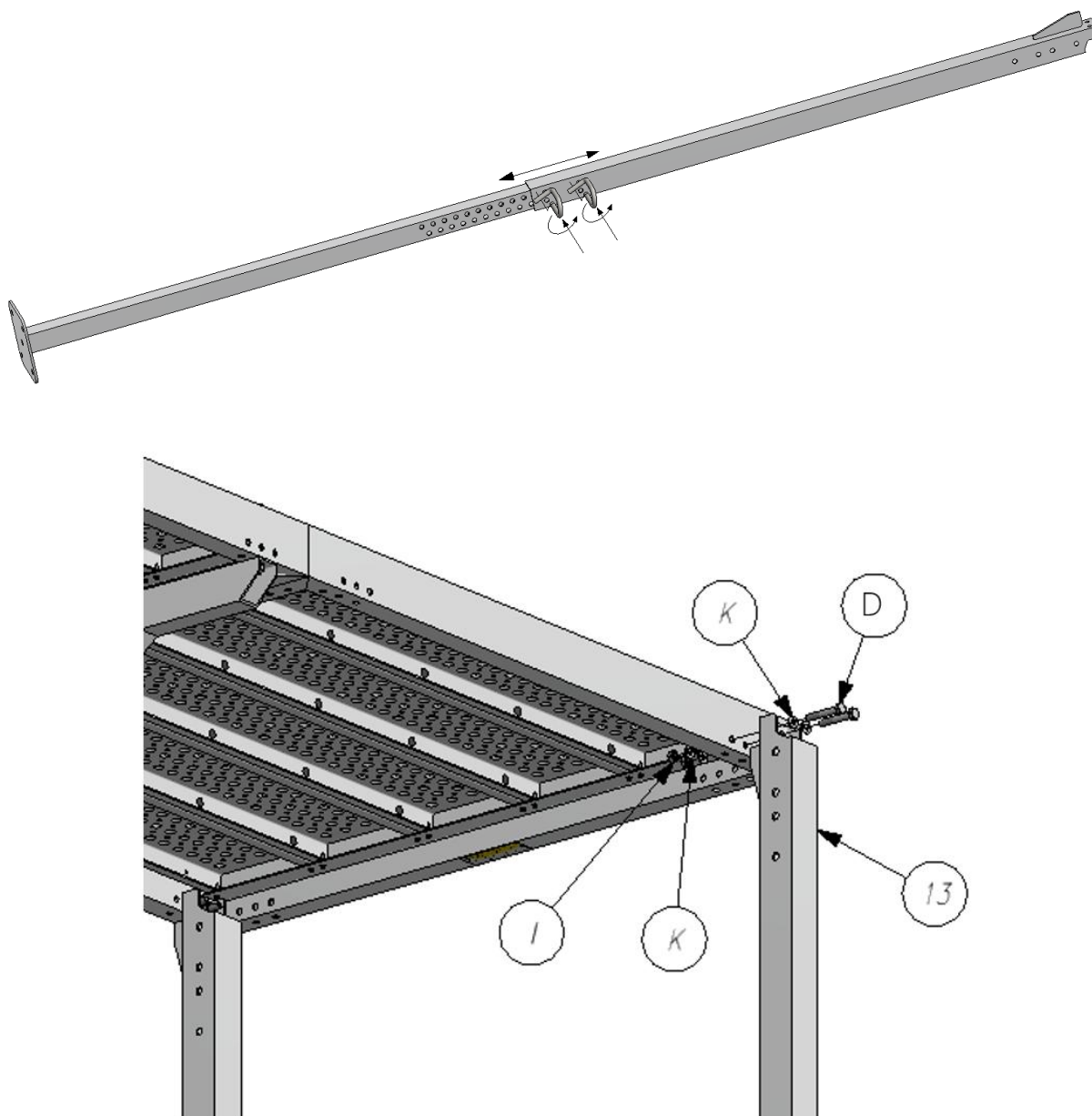


4.3. Assembly of posts

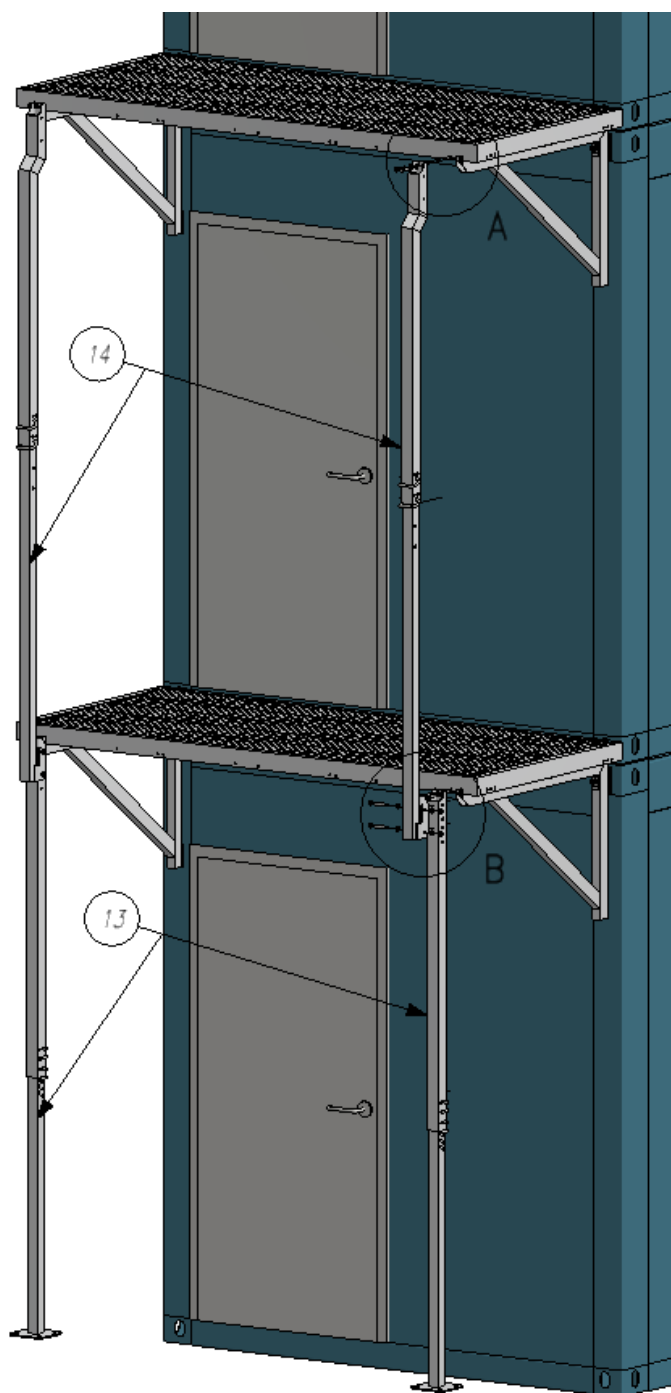


The post can be adjusted in steps of 3.8mm along the entire length of the lower section's perforation by inserting two cotter pins according to the diagram above.

The posts must be placed under the landings or stair flights and then screwed using a bolt, washer, and nut set.

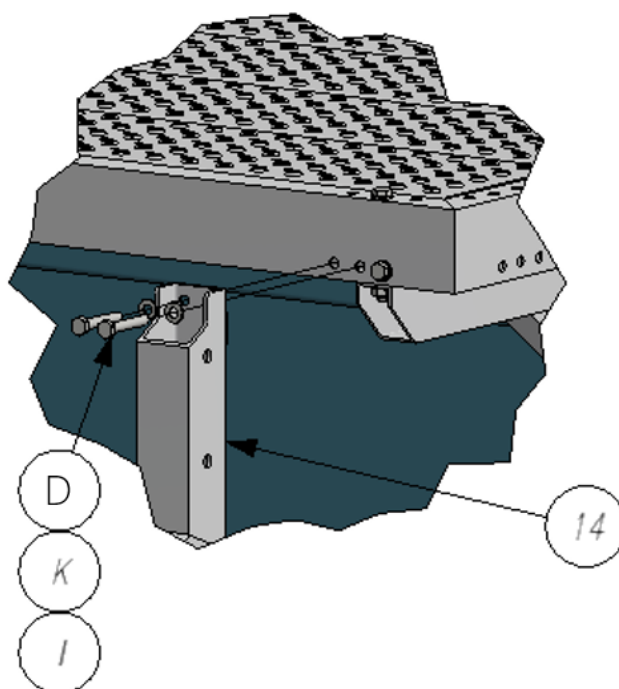


The posts must be installed in the quantity and locations appropriate to the configuration.

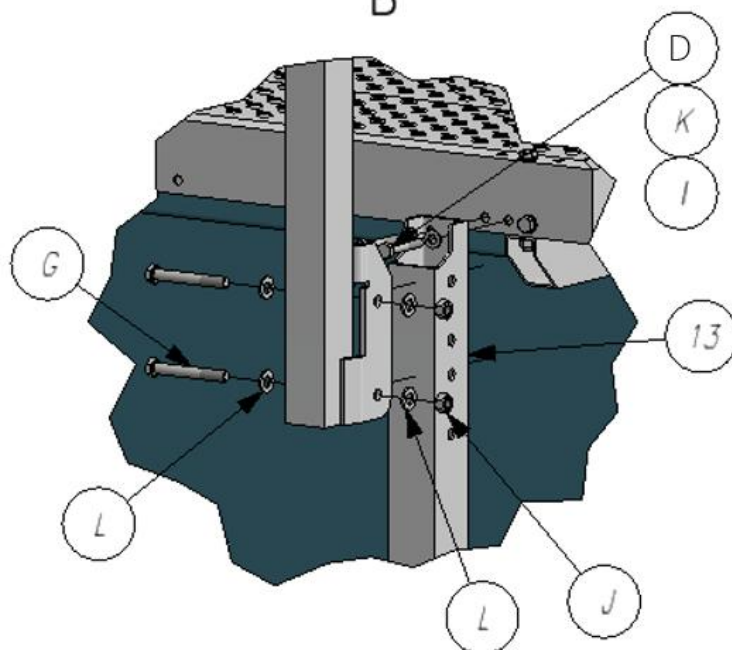


The second-story landings should be supported from the base level of the first container.

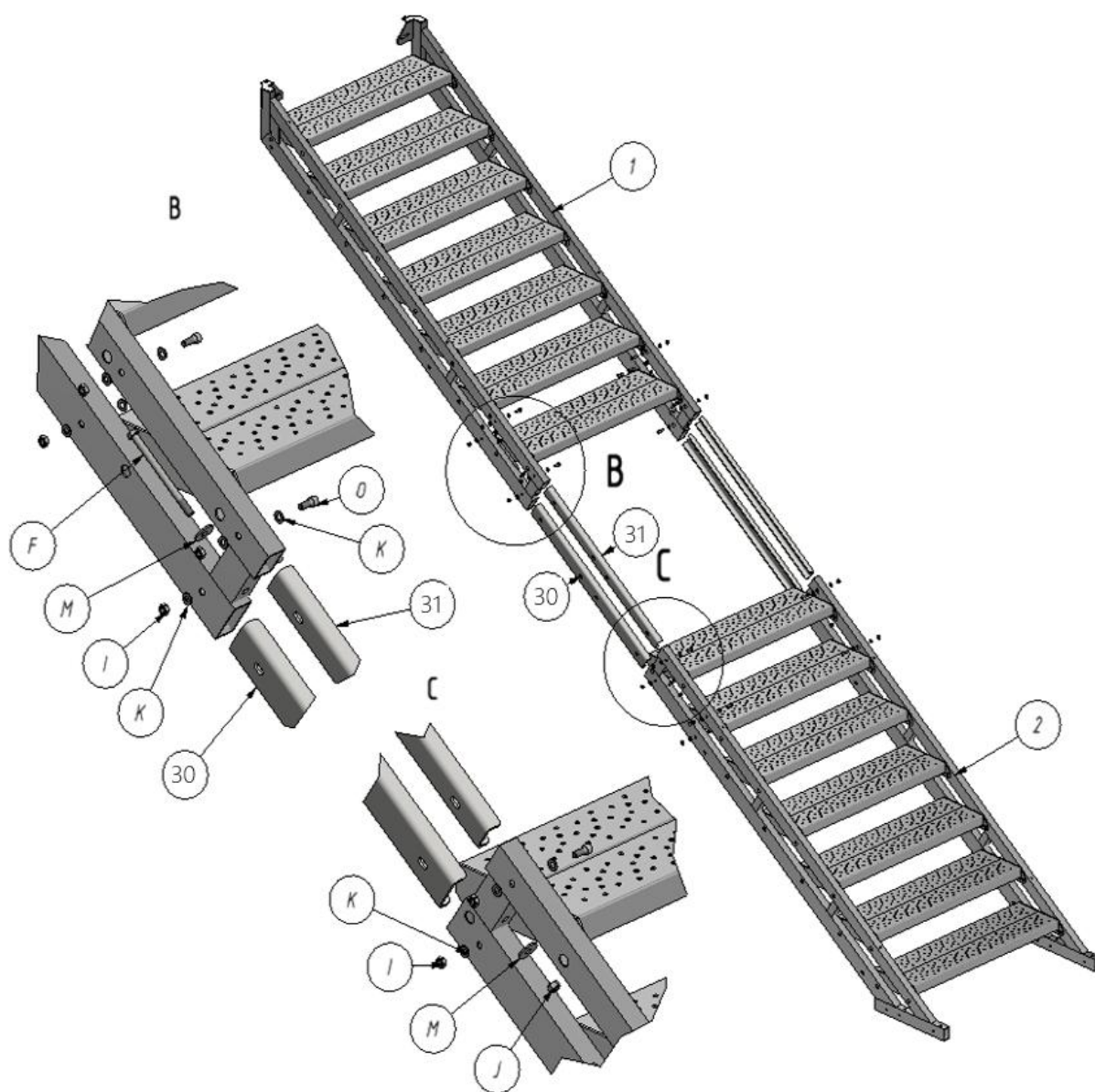
A



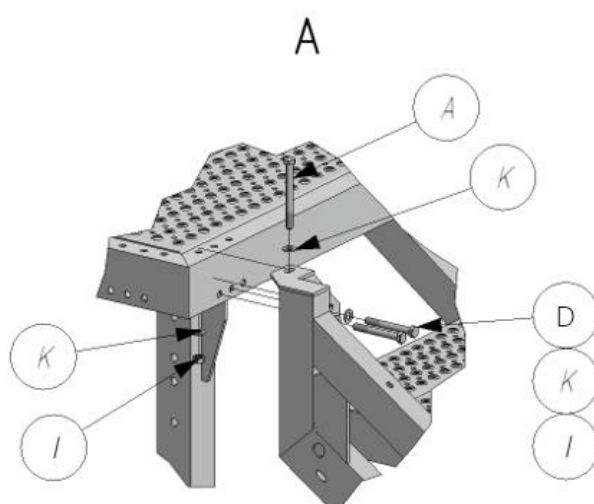
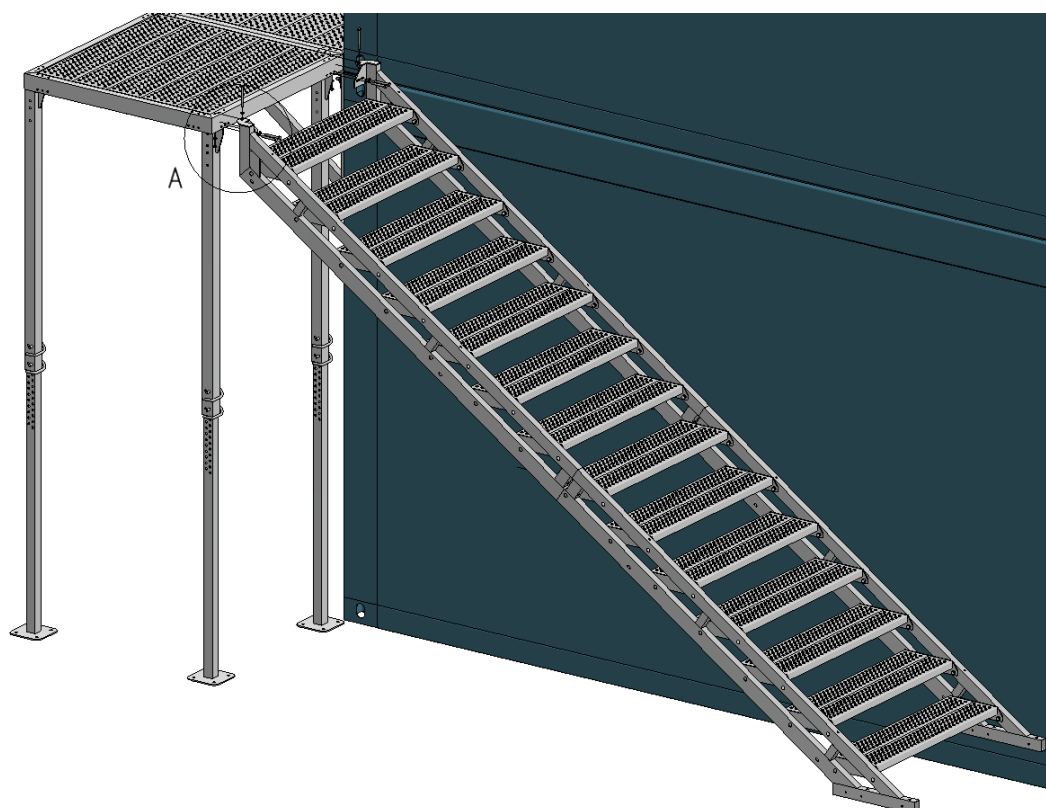
B



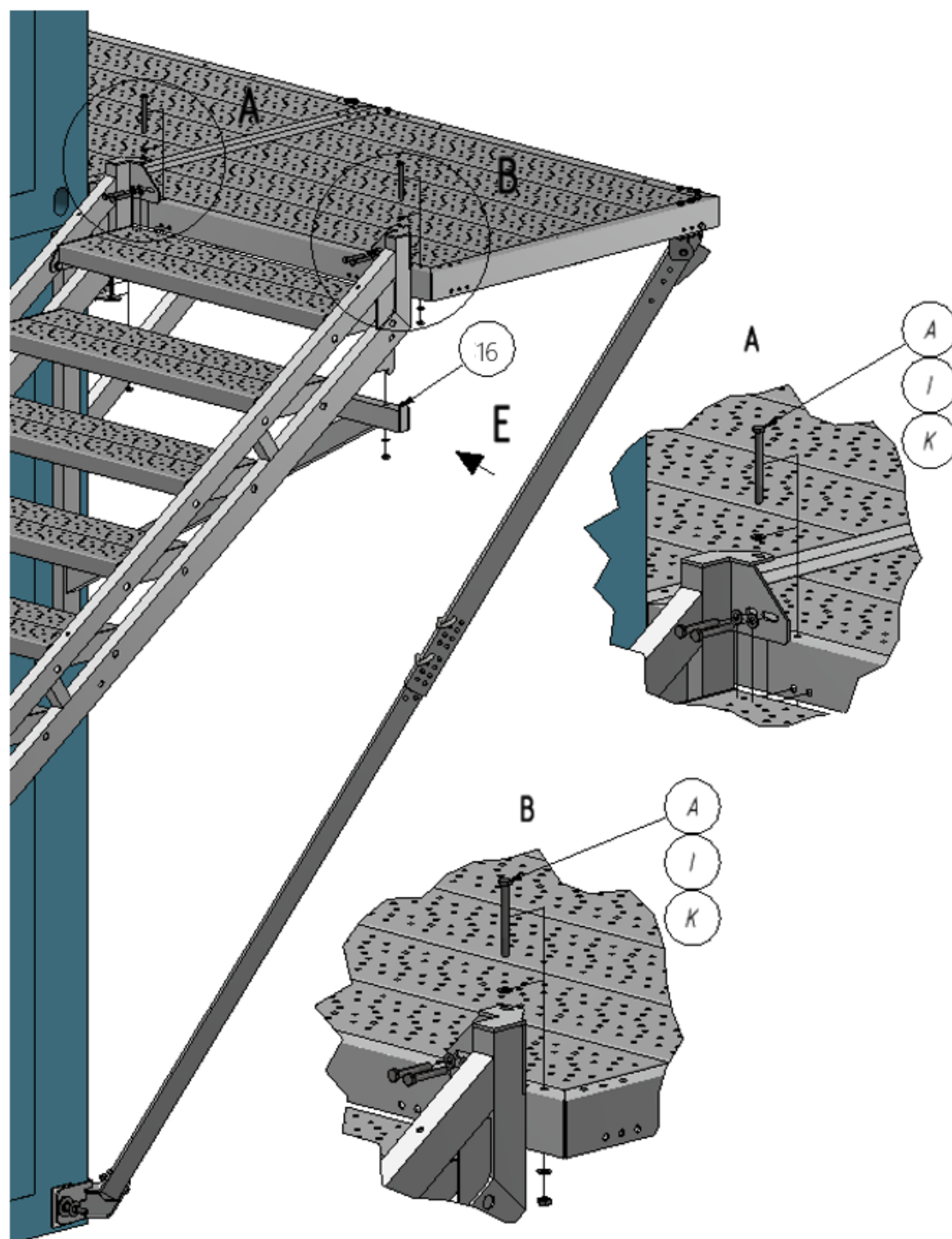
4.4. Assembly of stairs



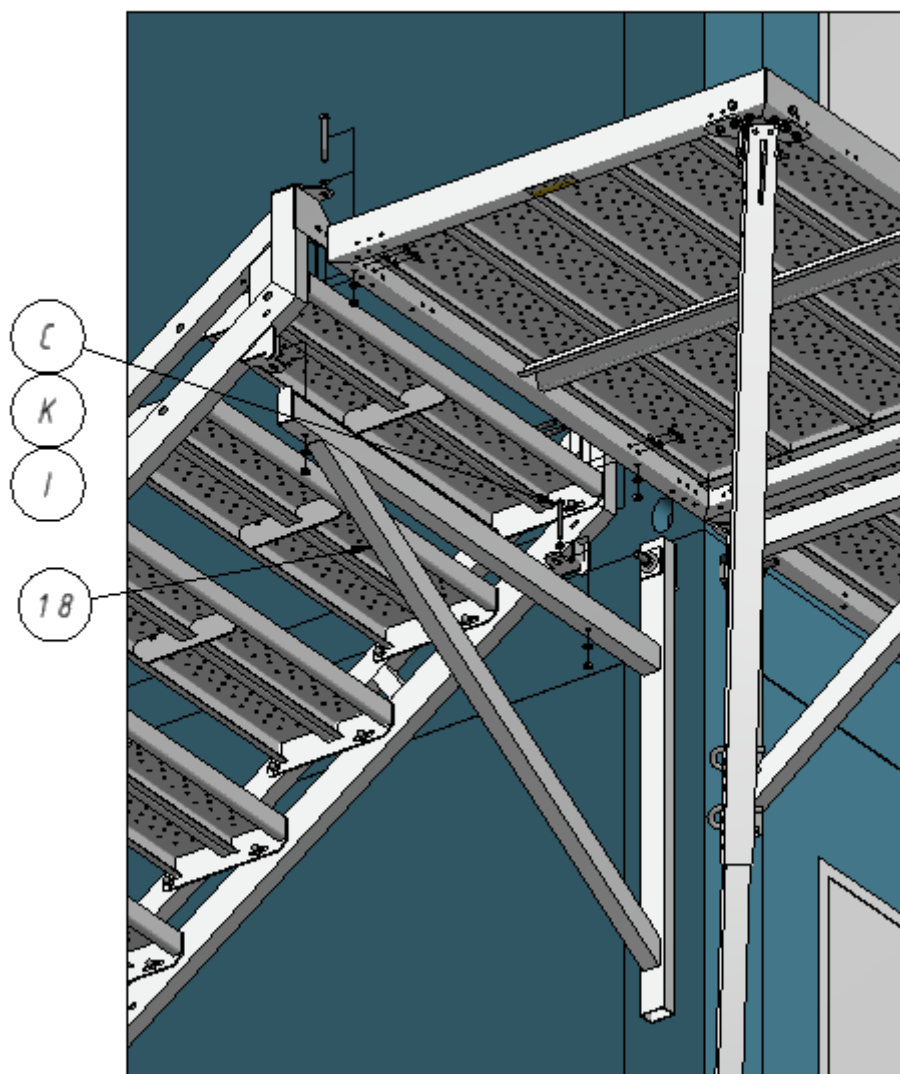
In order to bolt the stair flight together, insert the P-SK3-LP-SB1 and P-SK3-LP-SB2 connectors into the stringers of the upper and lower sections of the stairs, with the webs of the channels facing outwards, without the need to disassemble the steps.



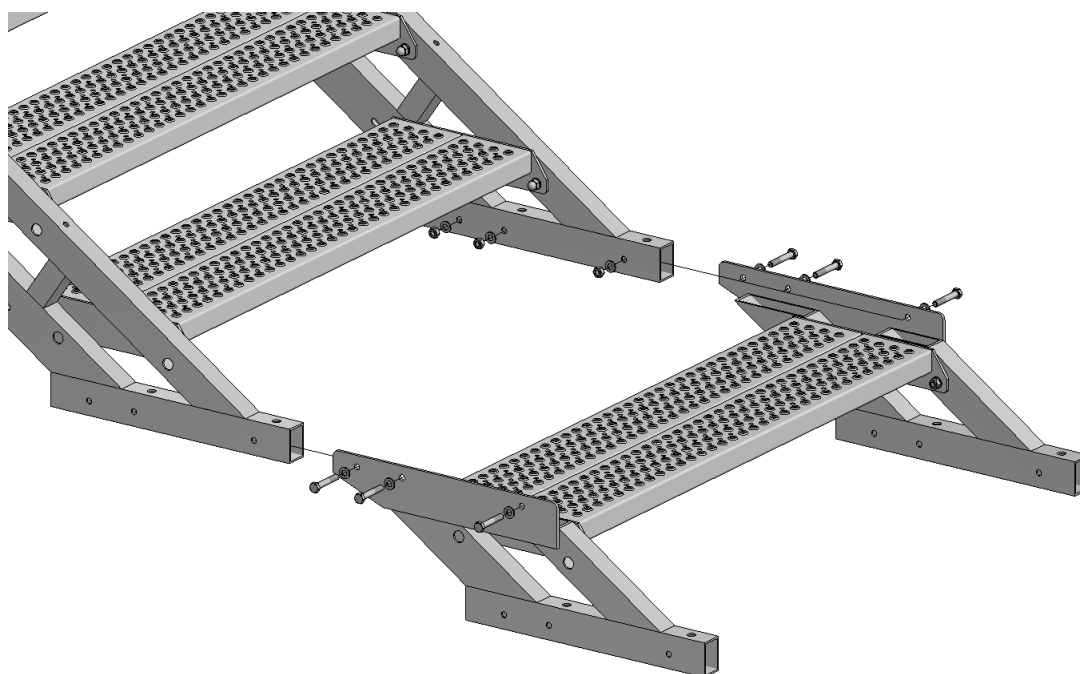
The posts installed next to the stair flights should be bolted from the inner side of the landing using the same bolts as the stair flight.



E

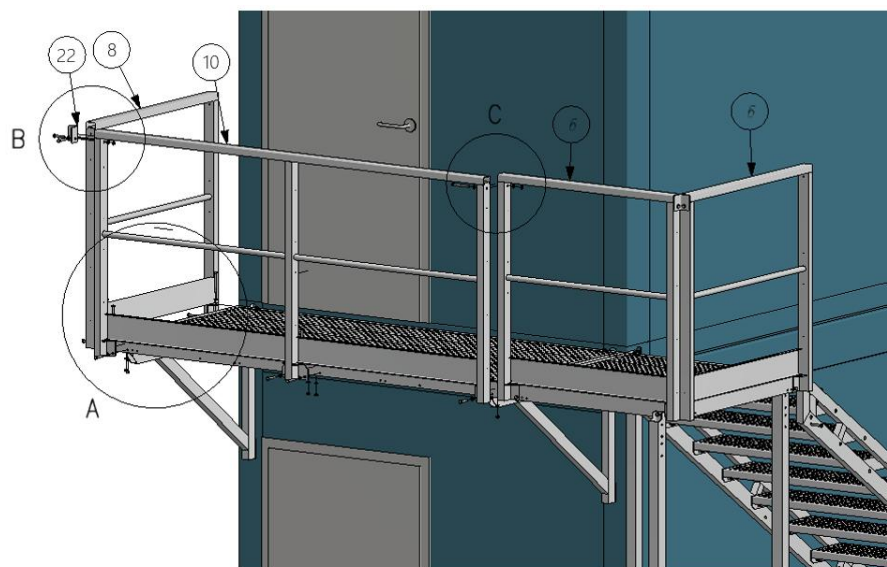


4.5. Assembly of stair extensions



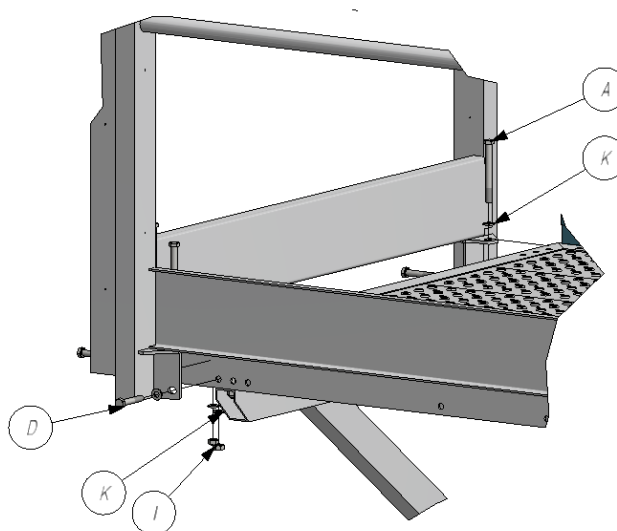
Depending on the container height, stair extensions are installed using the included set of bolts.

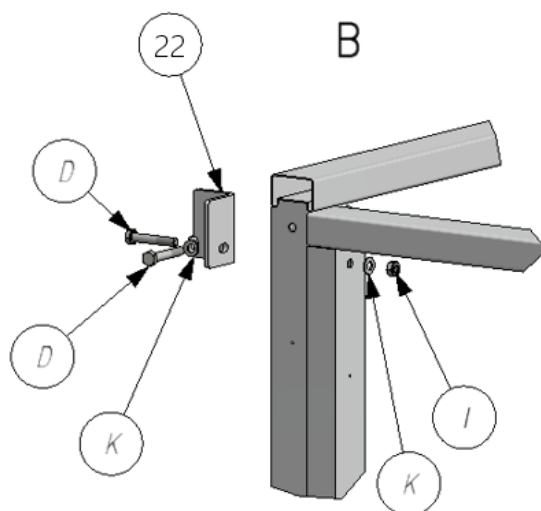
4.6. Assembly of handrails



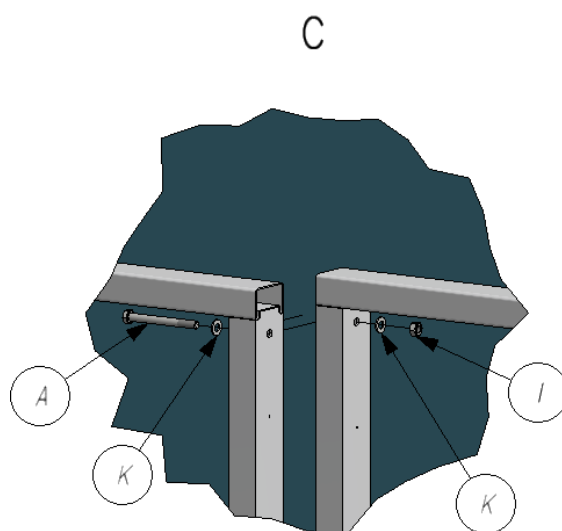
The installation method for industrial handrails is presented below; safety handrails are to be installed in the same manner.

A

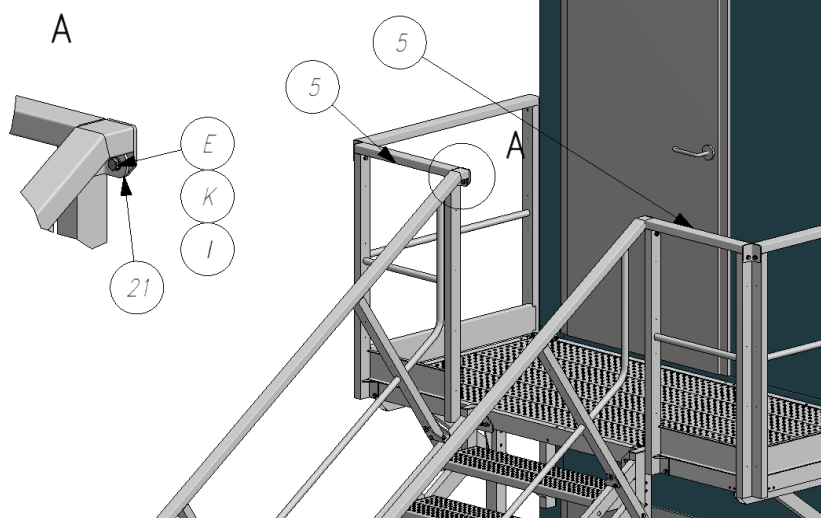




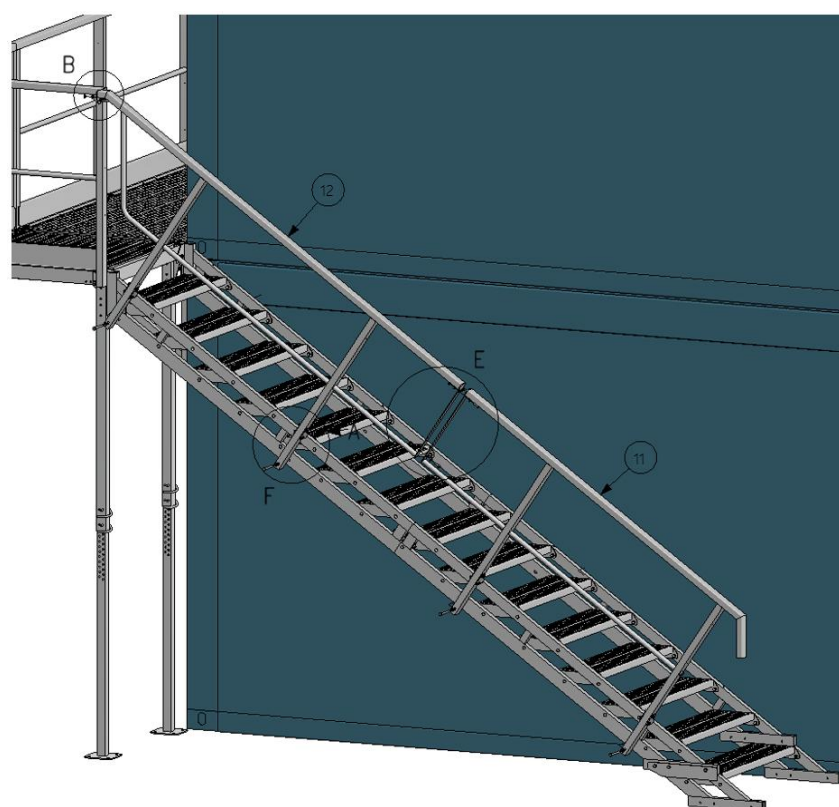
Handrails meeting perpendicularly must be connected using the P-SK3-LP1 connector.

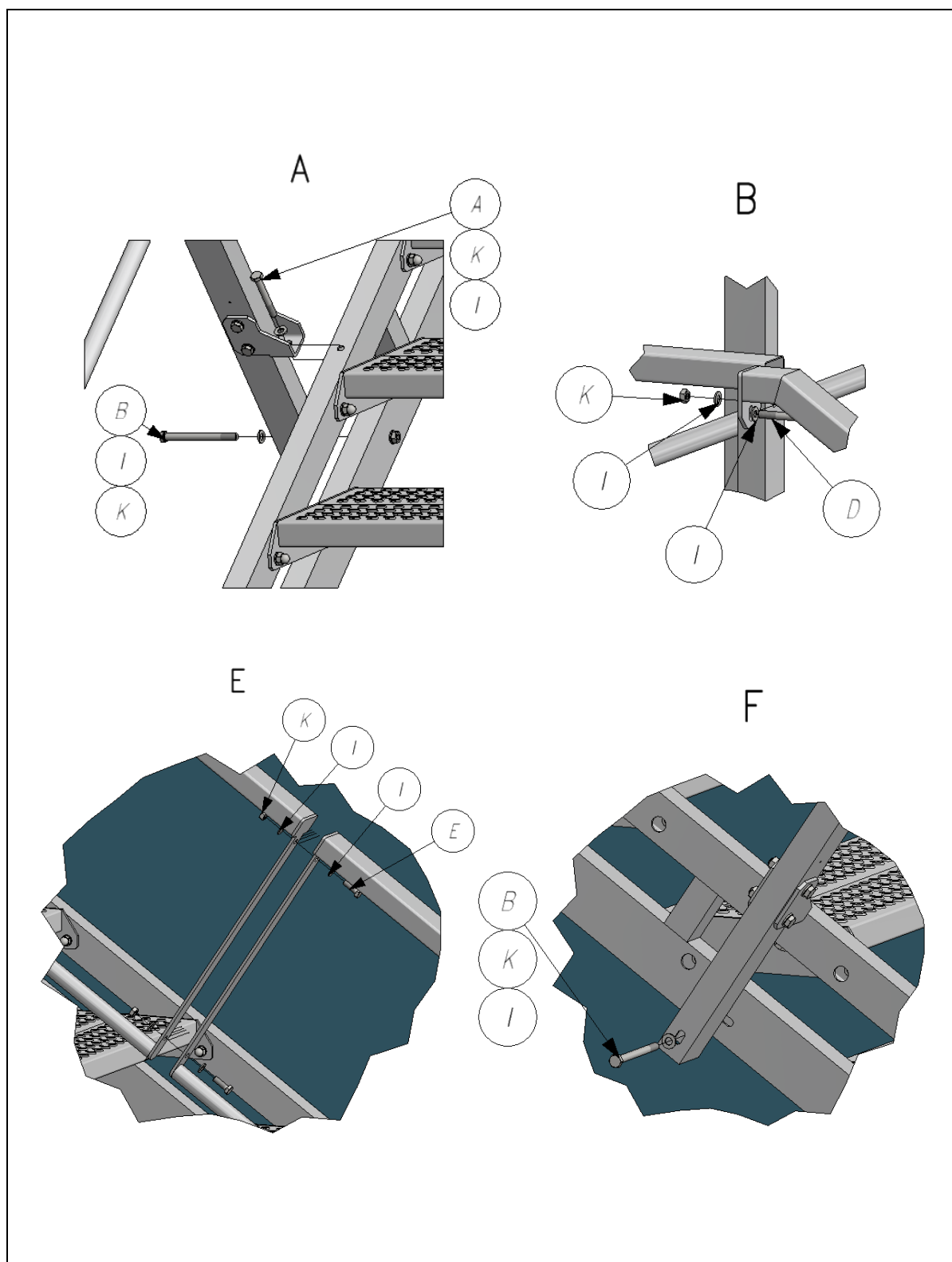


Handrails running parallel to each other must be bolted together.

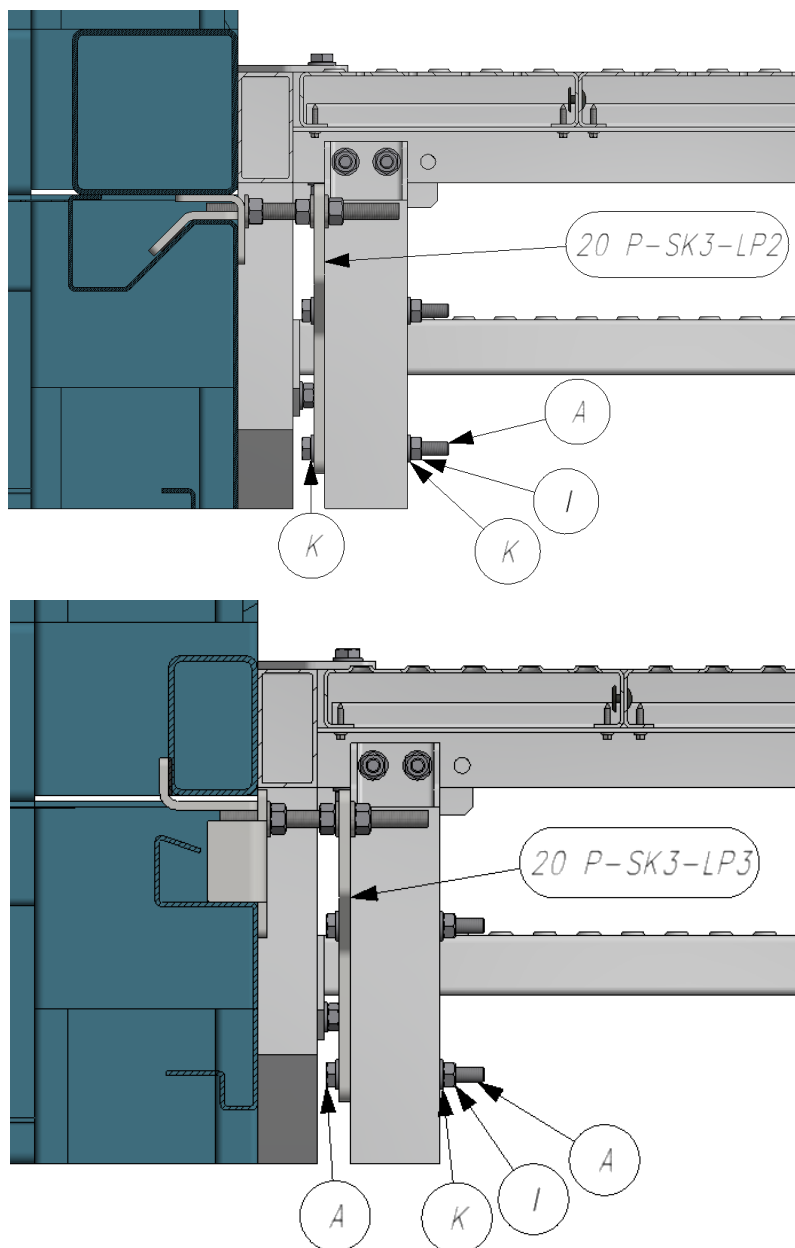


When installing stairs on the long side of the landing, supplementary handrails must be used and secured to the stair handrails using P-SK3-LP4 connectors.





4.7. Installation of the P-SK3-LP2 connector

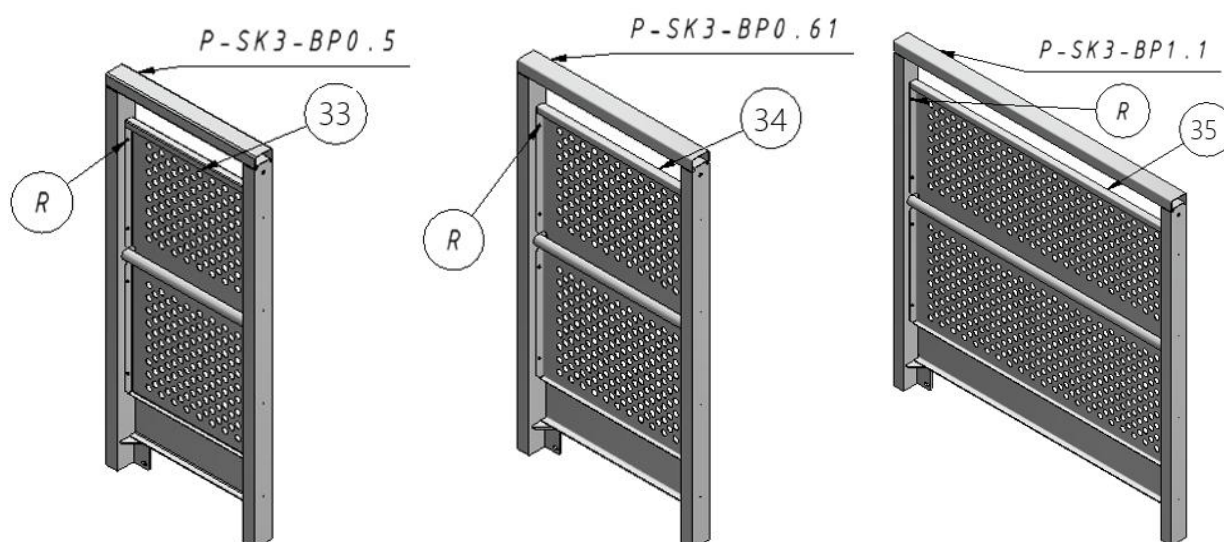


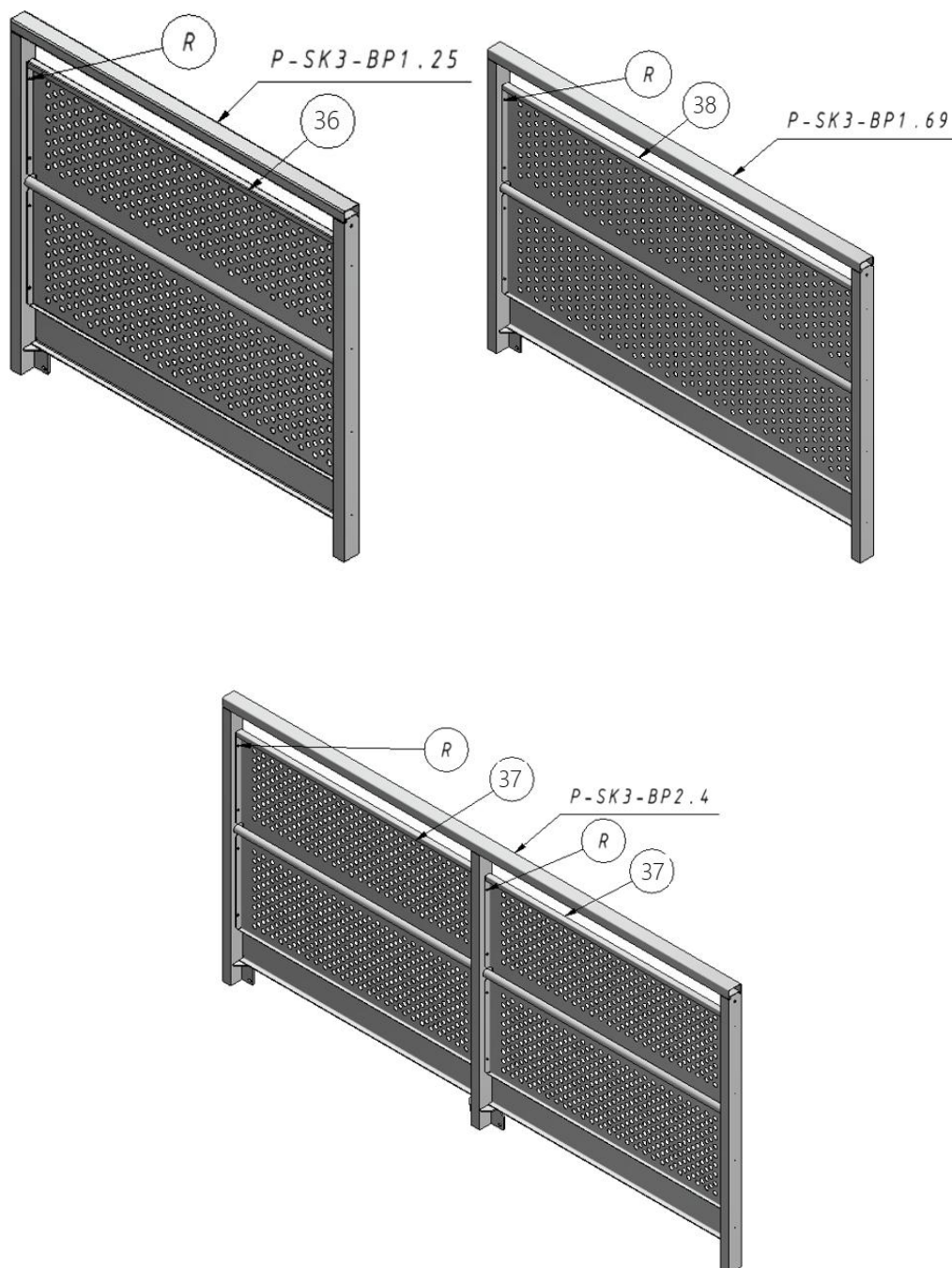
Depending on the container frame design, the P-SK3-LP2 or P-SK3-LP3 connector must be used.

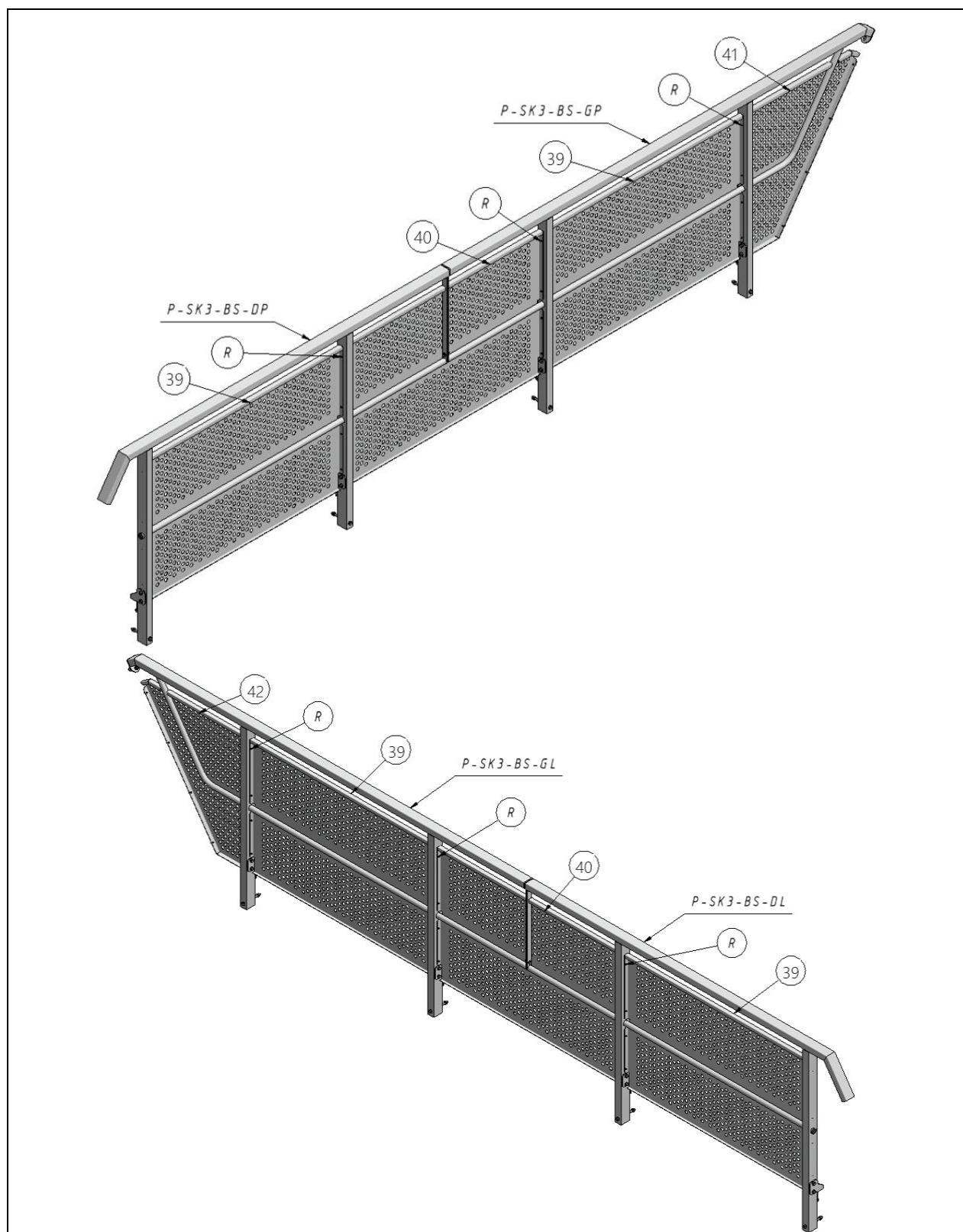
4.8. Assembly of safety handrails



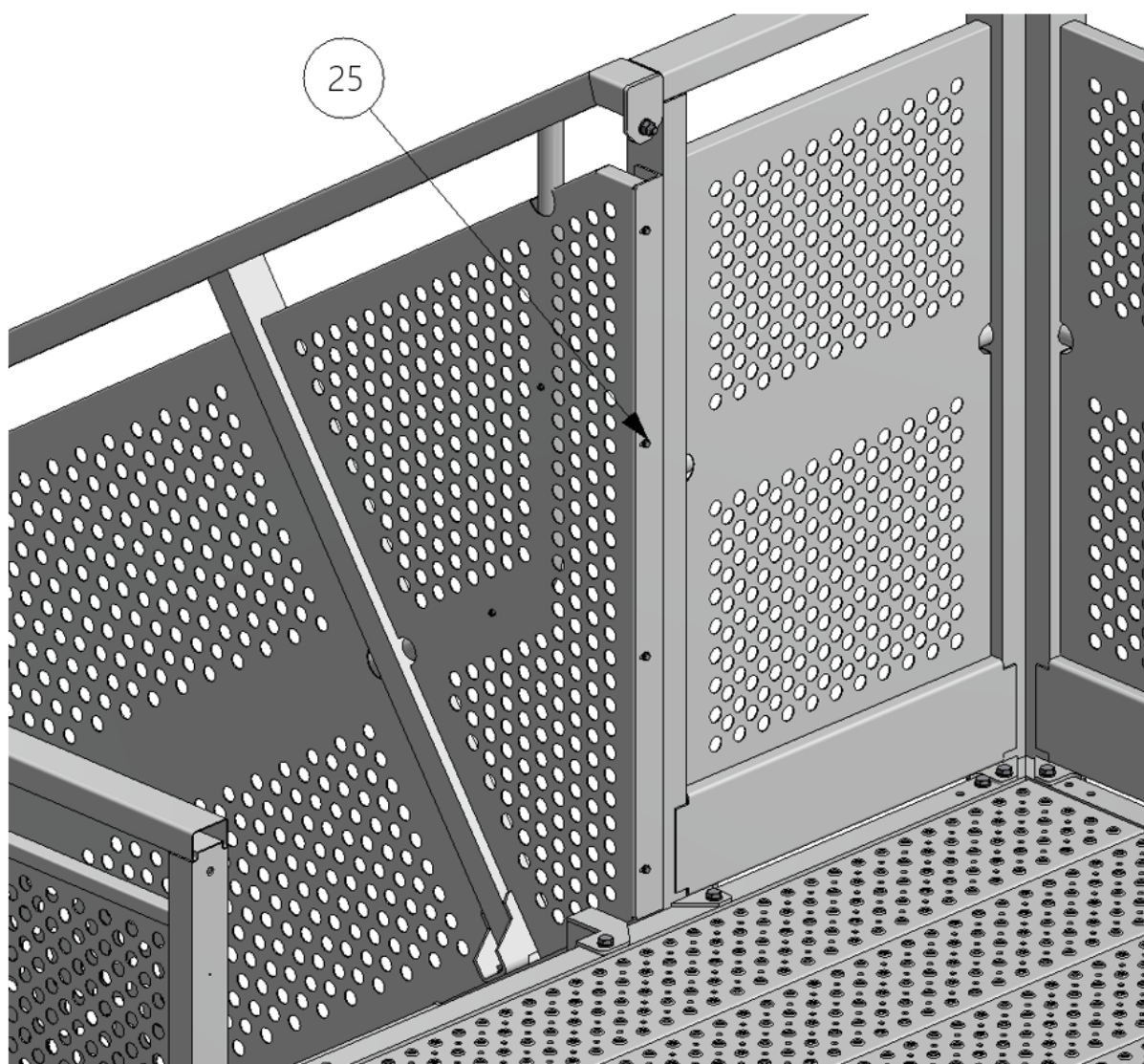
Safety handrails are installed by screwing perforated sheet metal panels as infills onto the industrial handrails. To facilitate installation, pre-drilled holes have been provided in the handrails, into which the screws should be driven.





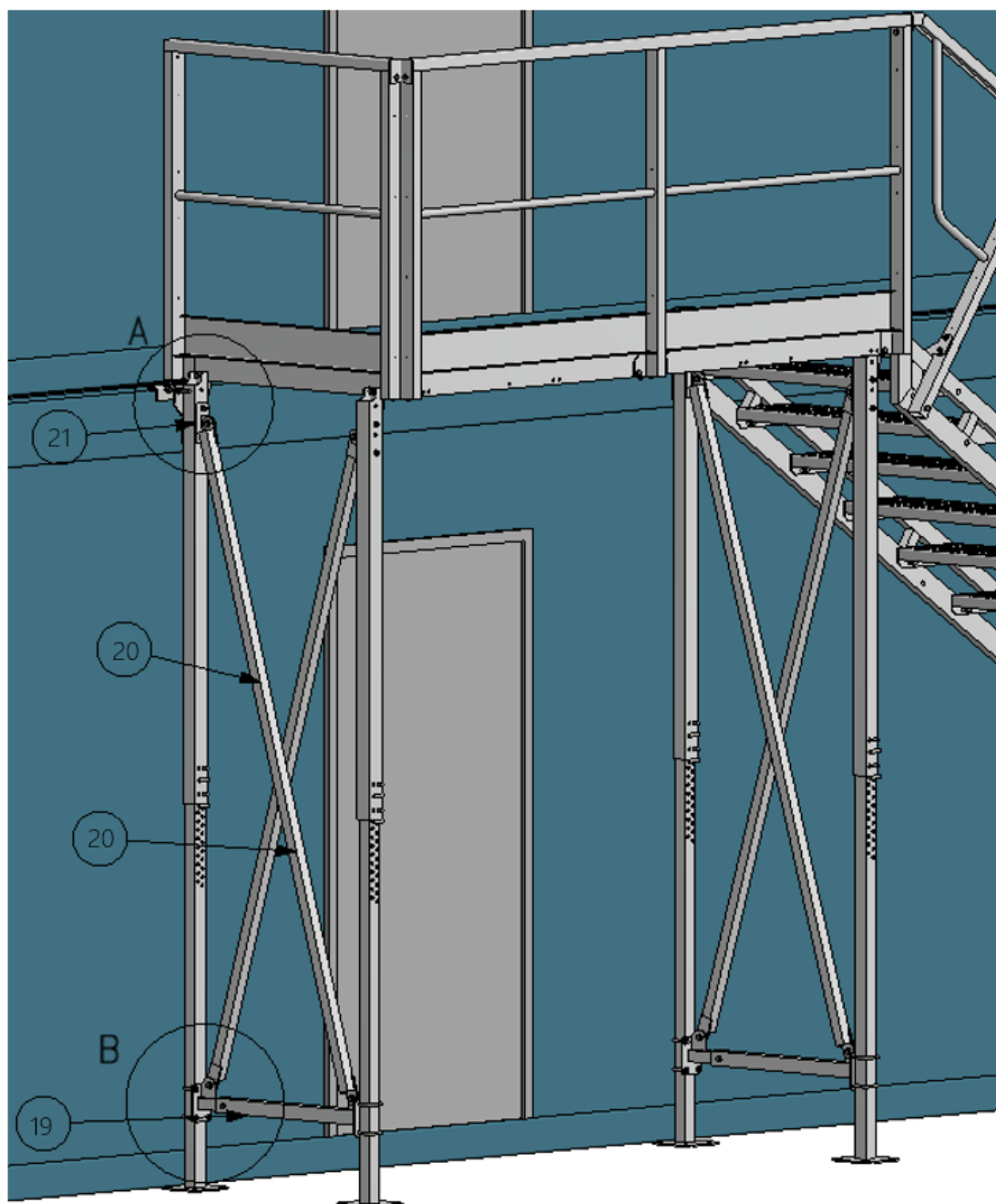


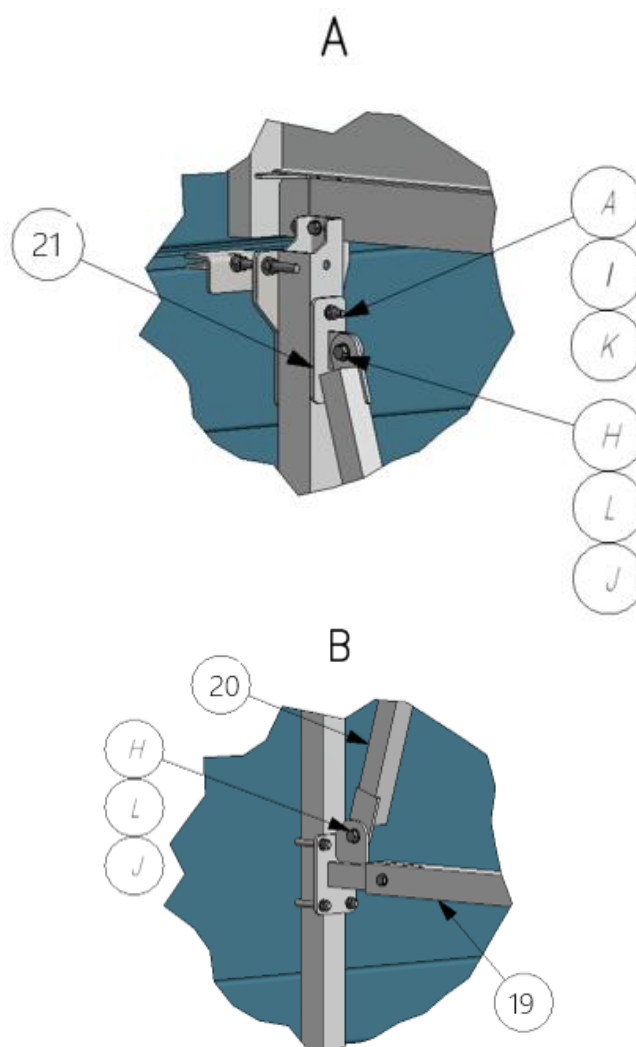
4.9. Installation of the P-SK3-LP5 connector



The P-SK3-LP5 connector is used to join the safety handrail panels when the stairs are installed perpendicularly to the long landing. The connector must be screwed to the landing handrail using the screws included in the upper stair handrail kit, and then the upper stair handrail panel should be secured using the bolts provided with the connector kit.

4.10. Installation of column bracing





The P-SK3-O1 crossbeam features adjustable incremental length, allowing it to be adapted to the width of the installed stair system.