

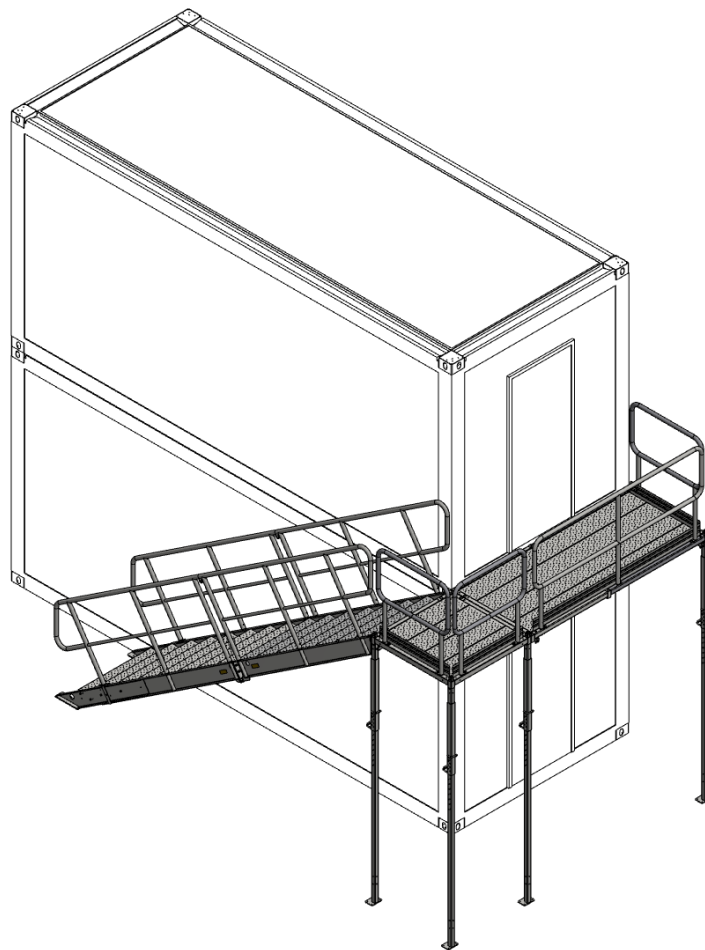
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*Attachment no. 1*

*Assembly Manual for*

*Container Stairs*

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## Table of changes

Lp	FULL NAME	DZIAŁ	DEPT	SCOPE OF CHANGE	NOTES
1	Piotr Abram	BR	21.08.2018	Graphics, point 4.8	
2	Piotr Abram	BR	21.08.2018	Table 1, Figure 5 and 7	
3	Paweł Oleszkowicz	B+R	06.10.2021	General document update. New variants have been added.	
4	Paweł Oleszkowicz	B+R	03.08.2023	Update of the statement of components and variants	
5					
6					
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## 1. Assembly manual

The assembly manual is an attachment to the operation and maintenance documentation of the TLC container stair system.

Container stairs consist of individual elements according to specification attached with the delivery. The system includes fasteners. The system is delivered in the form of separate elements, such as platforms, railings, steps, fasteners, stairs, posts. The elements are assembled in a specific order.

Container stairs as a modular structure can be freely configured (within the scope specified by the manufacturer) depending on the needs. The setting of individual configurations should be in accordance with the operation and maintenance documentation. Basic configurations of container stairs are presented below.

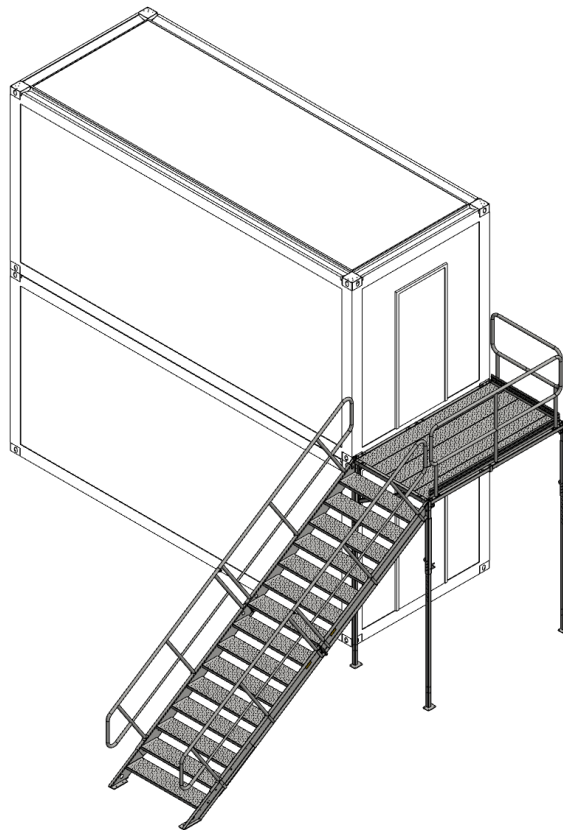


Figure 1 Configuration 1 (variant S3.1)

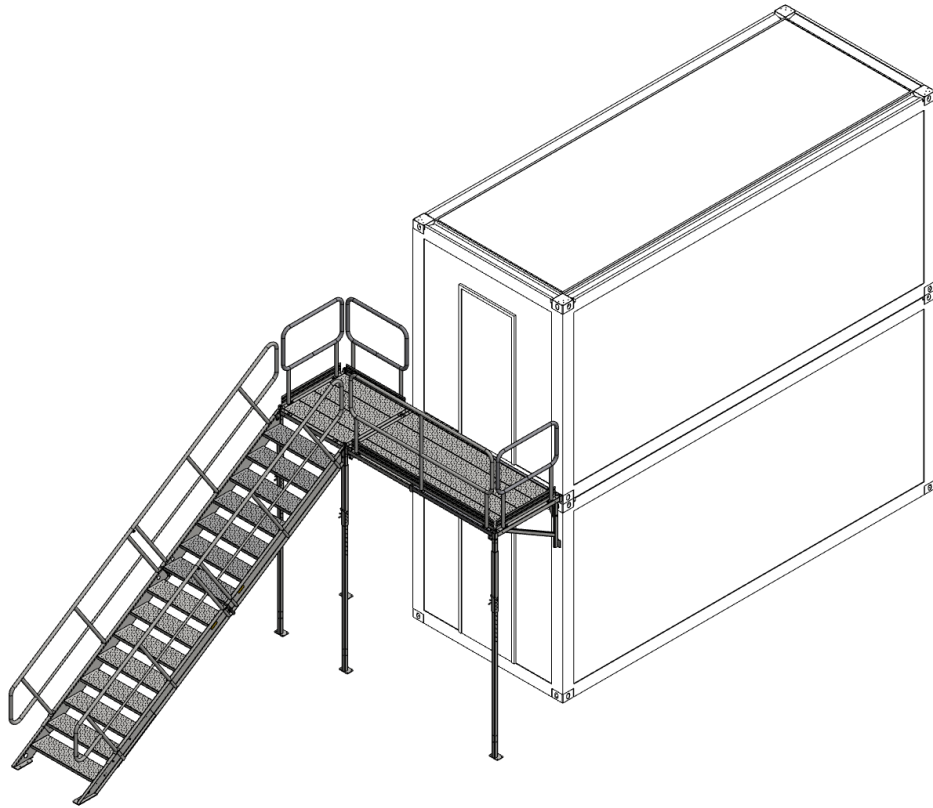


Figure 2 Configuration 2 (variant S3.2)

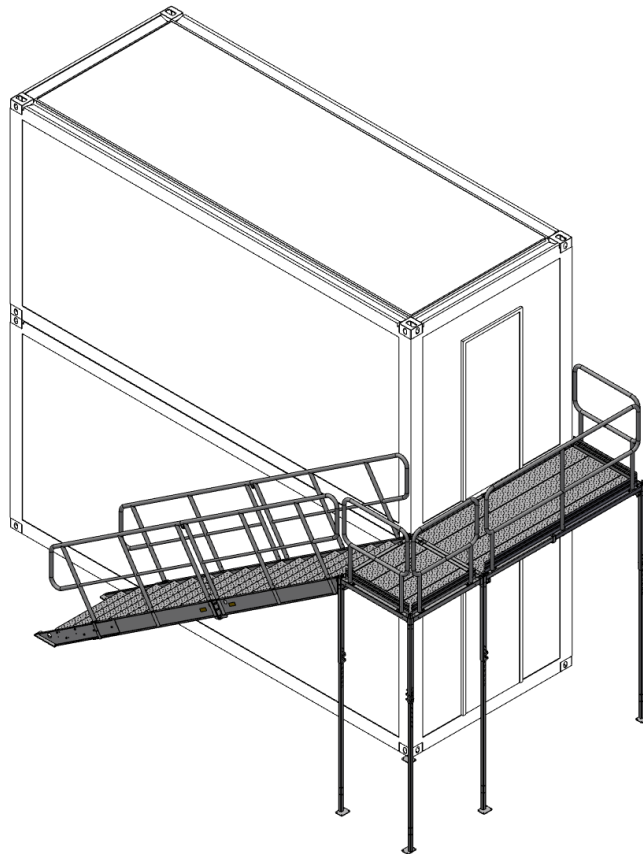


Figure 3 Configuration 3 (variant S3.3)

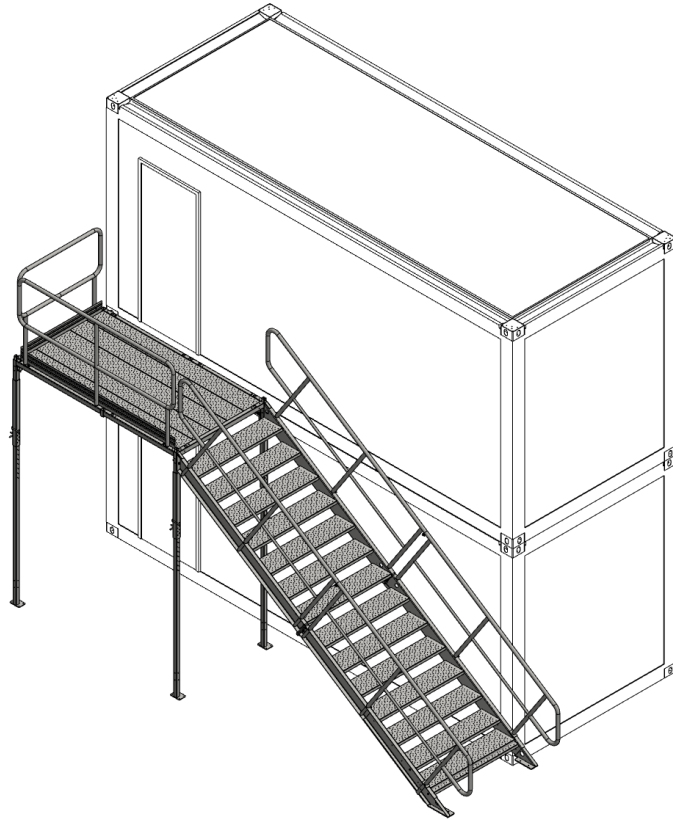


Figure 4 Configuration 4 (variant S3.4)

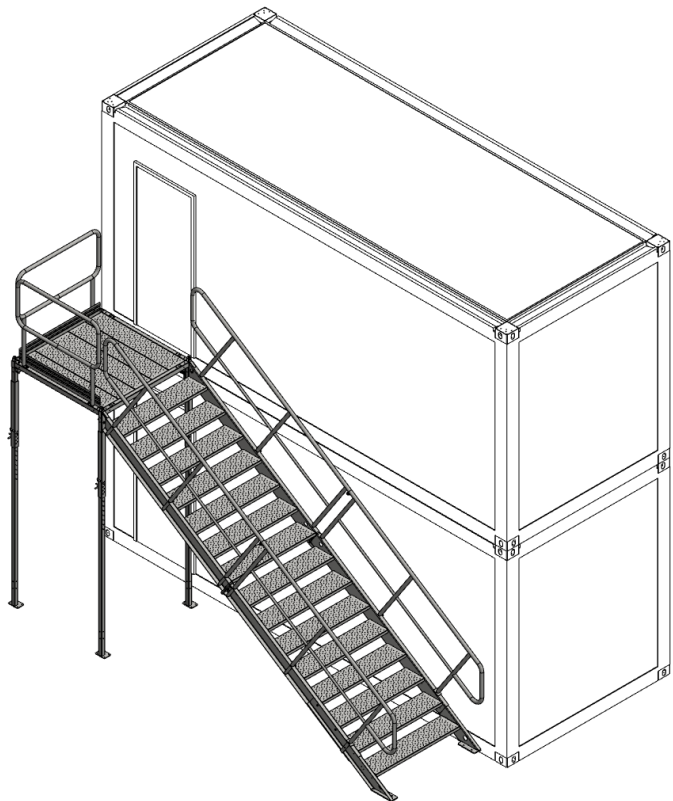


Figure 5 Configuration 4a (variant S3.4a)

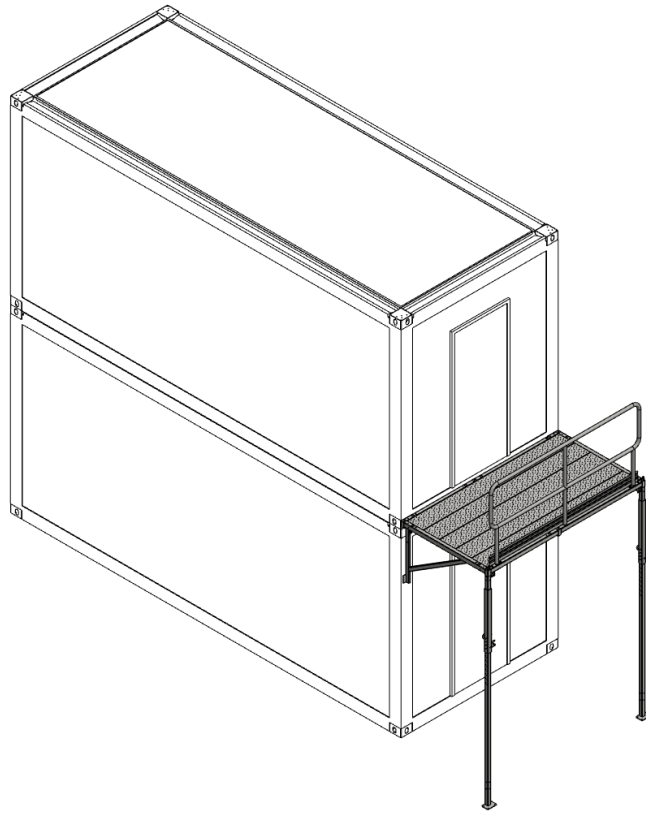


Figure 6 Configuration 5 (variant S3.5)

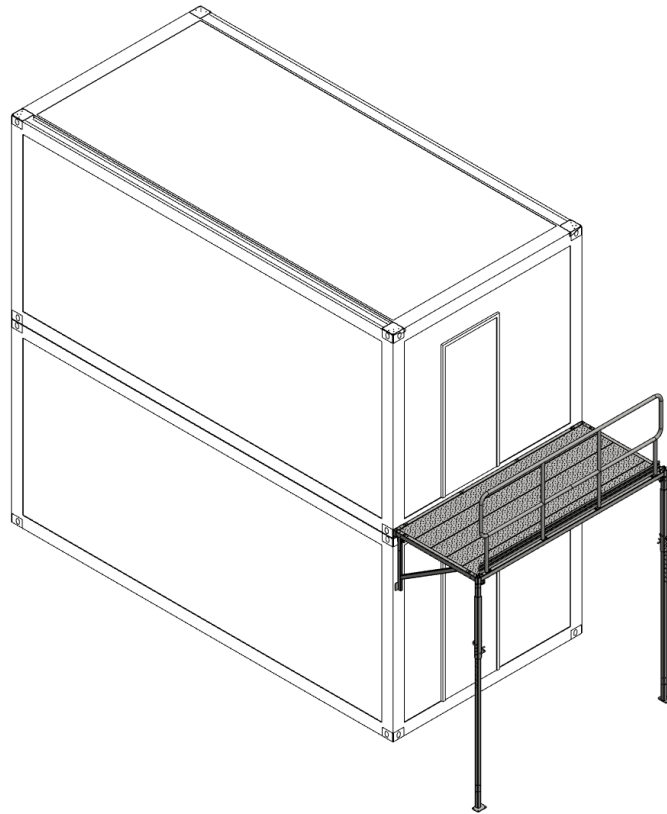


Figure 7 Configuration 5b (variant S3.5b)

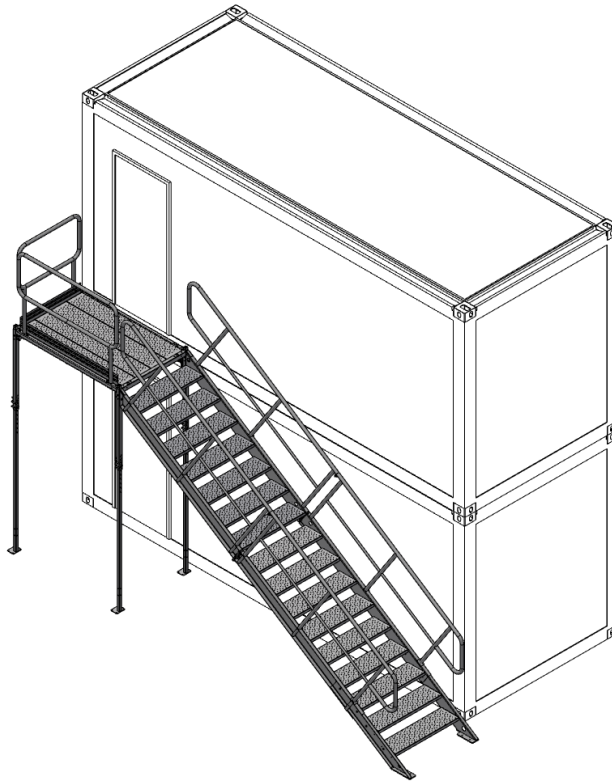


Figure 8 Configuration 6 (variant S3.6)

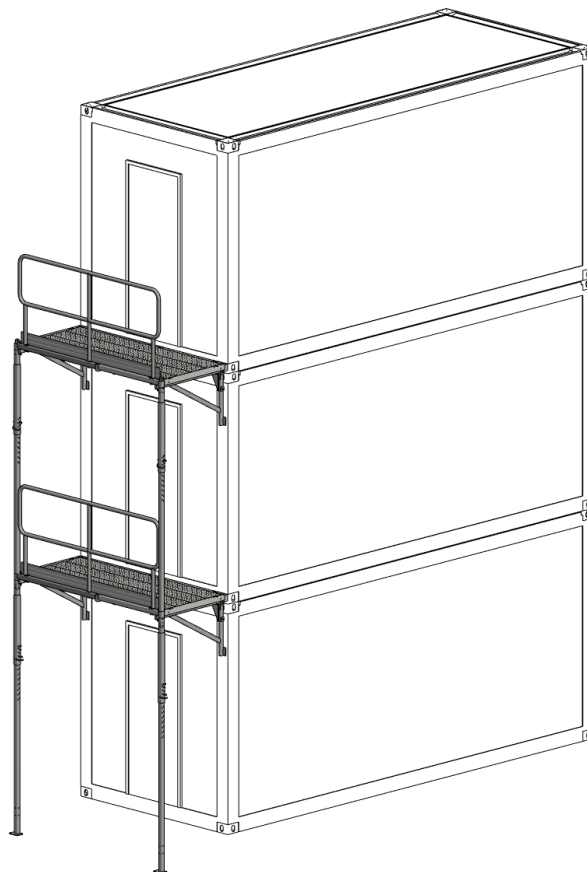


Figure 9 Configuration 7 (variant S3.7)



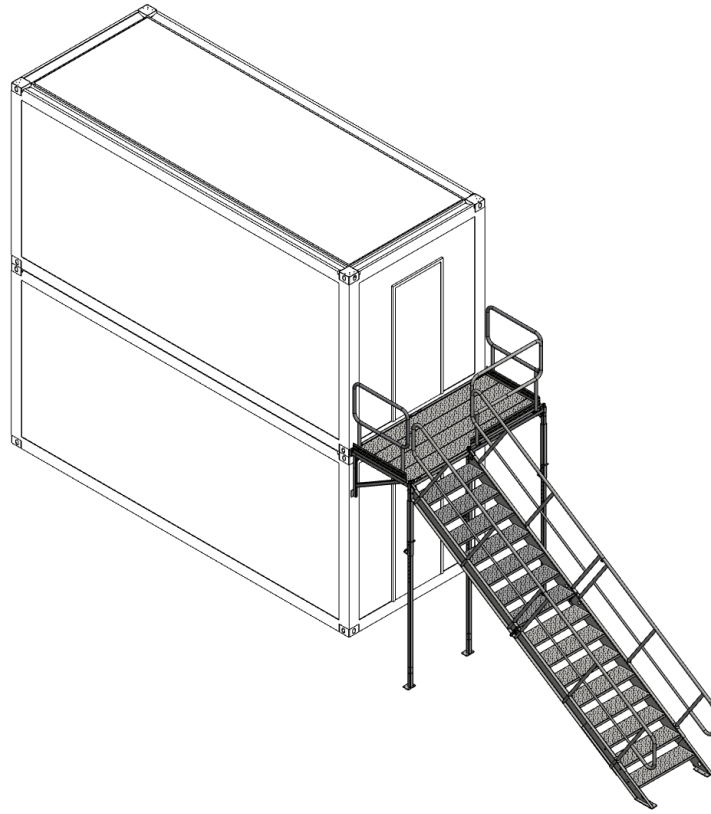


Figure 10 Configuration 8 (variant S3.8)

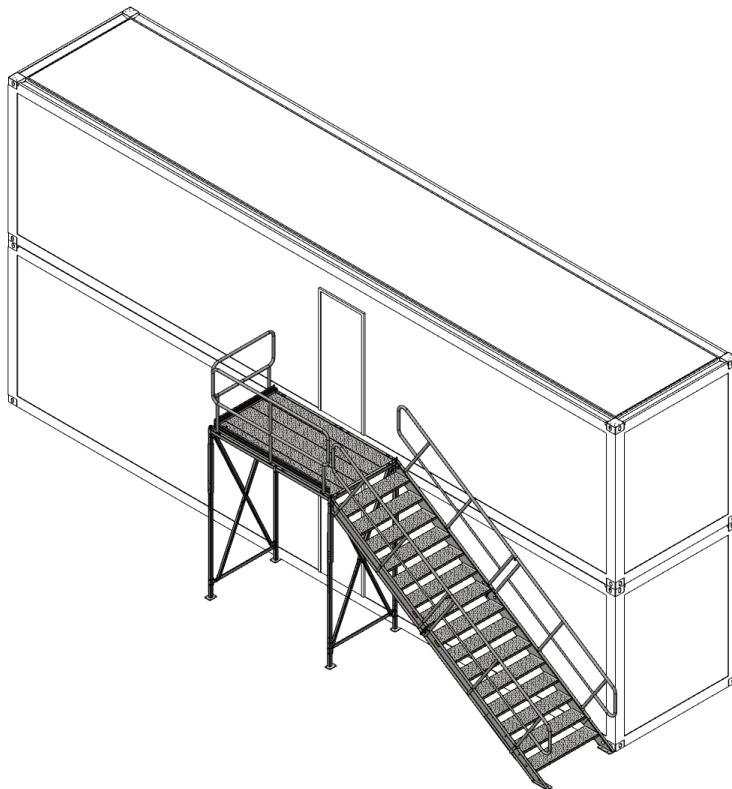


Figure 11 Configuration 10 (variant S3.10)

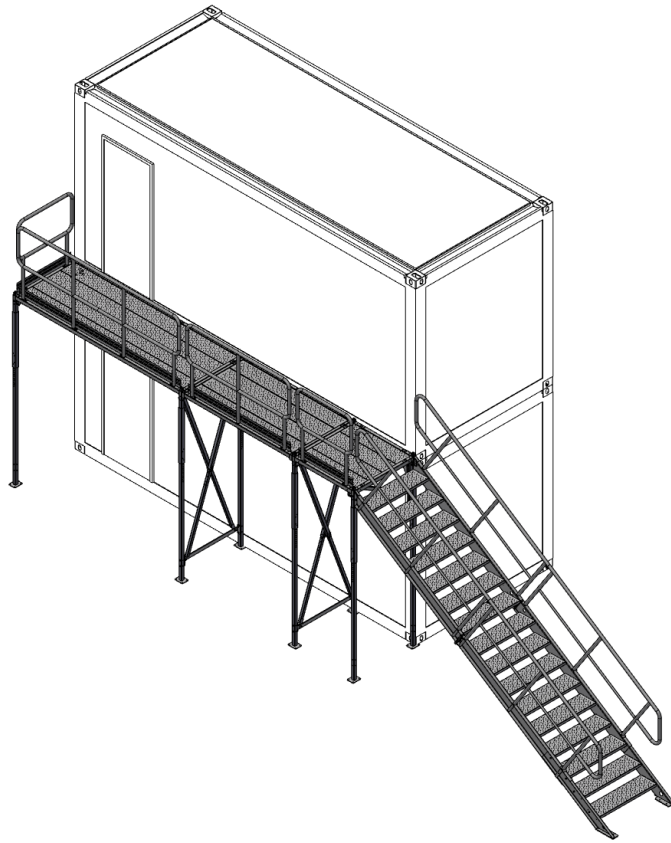


Figure 12 Configuration 12 (variant S3.12)

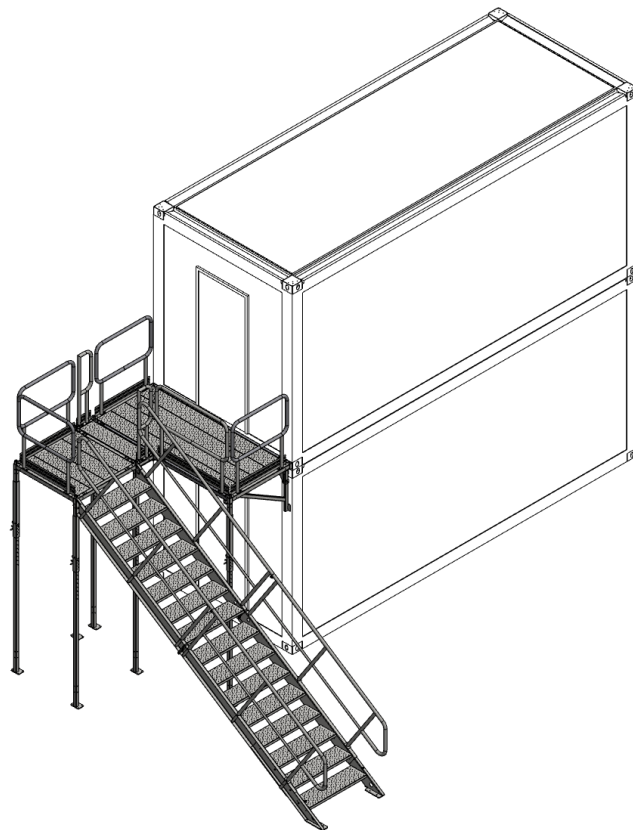


Figure 13 Configuration 13 (variant S3.13)

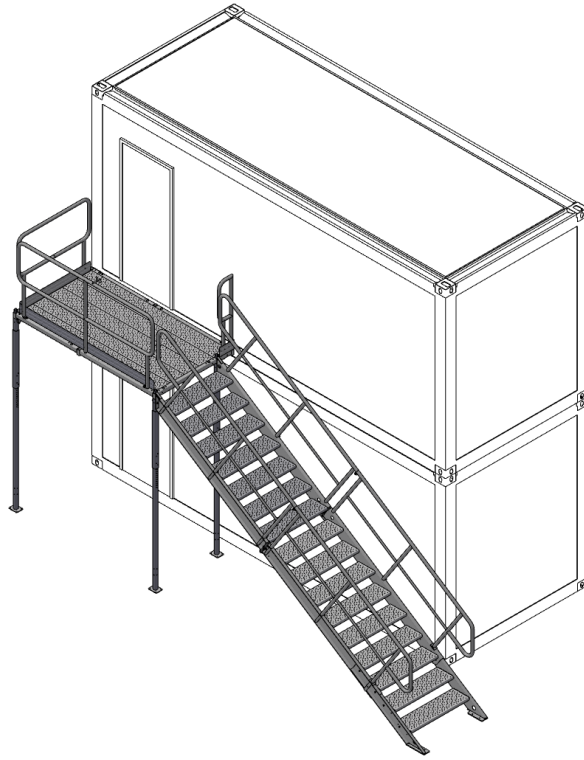


Figure 14 Configuration 14 (variant S3.14)

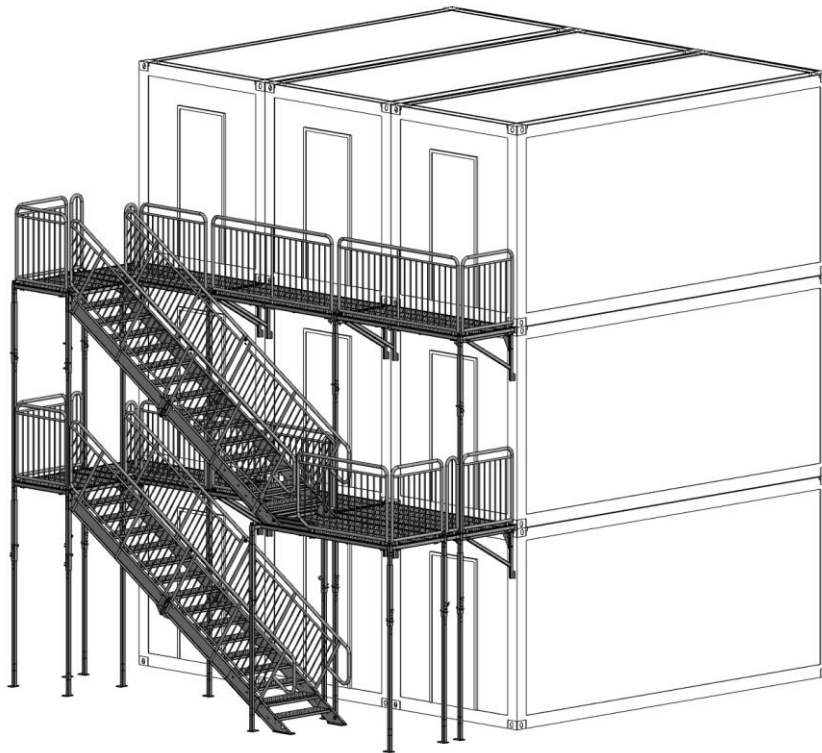
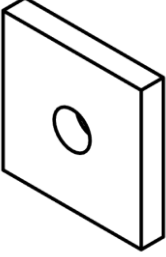
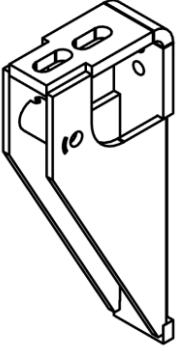
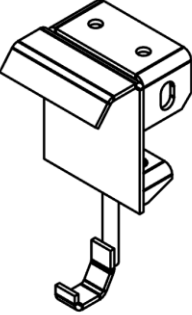
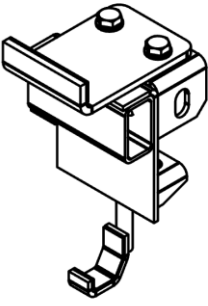

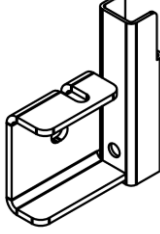


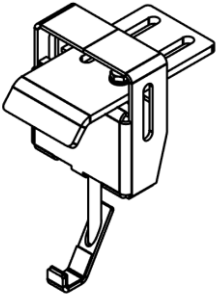
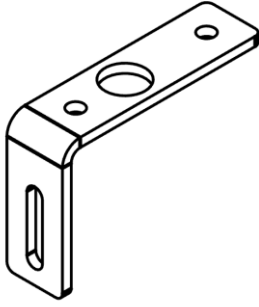
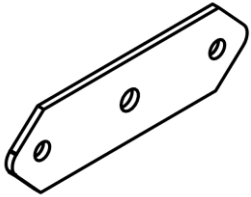
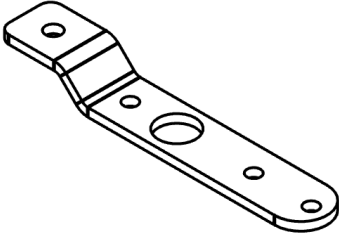
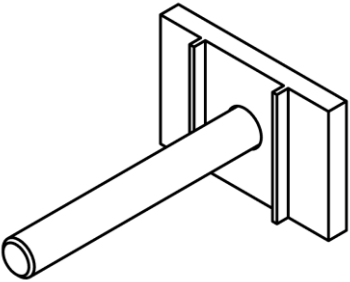
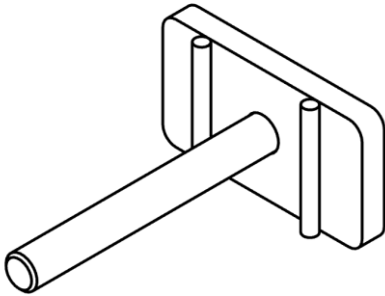
Figure 15 Configuration 15 (variant S3.15)

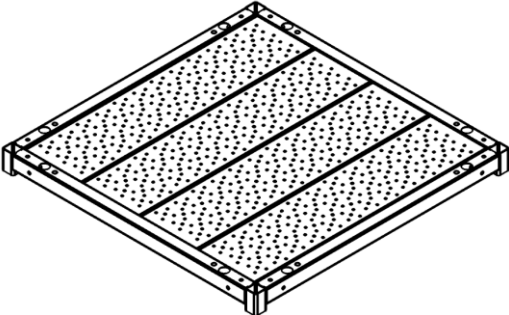
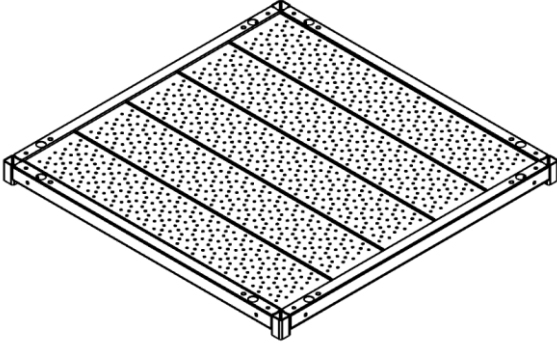
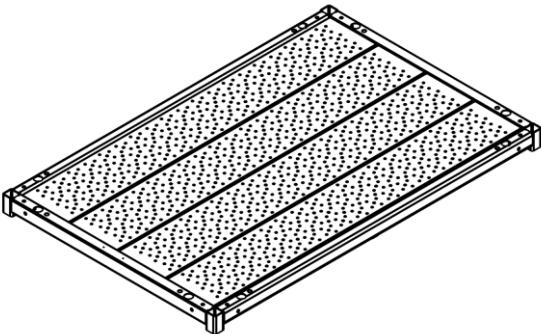
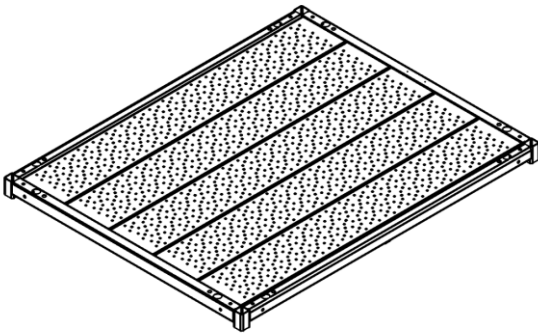
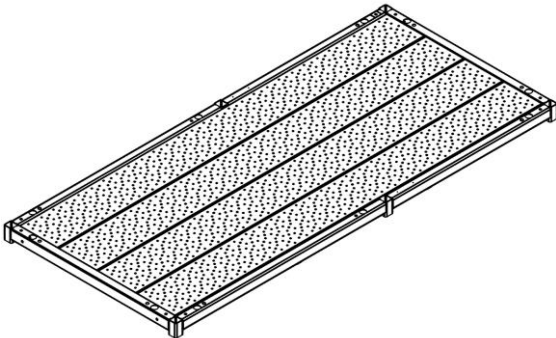
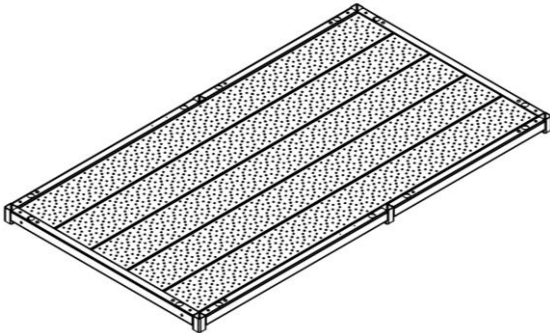
## 2. Components of the container stair system

The list of components in table 1 presents the components of the container stair system, their quantity depending on the configuration, and the type of the system ordered by the customer (to be selected from the ID, component description columns).

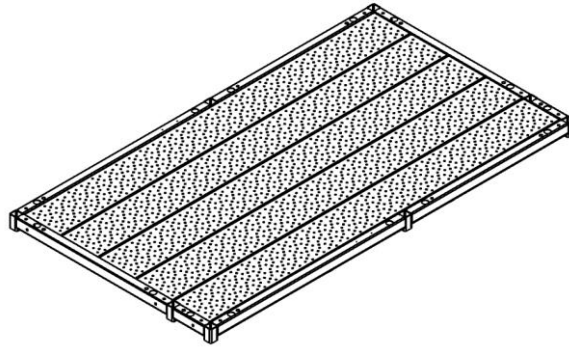
Table 1 Components of the container stair system

<p>SK5-D1 (M-Z-P-K-14-ZN-Z)</p>  <p>Weight: 0,15 kg Dimensions: 50x50x8</p>	<p>SK5-L1 (P-SK5-LP)</p>  <p>Weight: 2,78 kg Dimensions: 1100x1100x80</p>
<p>SK5-L2 (P-SK5-LP2)</p>  <p>Weight: 1,08 kg Dimensions: 220x100x100</p>	<p>SK5-L3 (P-SK5-LP3)</p>  <p>Weight: 1,97 kg Dimensions: 225x100x120</p>
<p>SK5-L5</p>  <p>Weight: 1,29 kg Dimensions: 140x165x46</p>	<p>SK5-L6</p>  <p>Weight: 1,29 kg Dimensions: 140x165x46</p>

<p>SK5-L16</p>  <p>Weight: 2,38 kg Dimensions: 257x192x90</p>	<p>SK5-L17</p>  <p>Weight: 0,76 kg Dimensions: 1100x1100x80</p>
<p>SK6-L1 (P-SK6-LP5)</p>  <p>Weight: 0,36 kg Dimensions: 189x57x5</p>	<p>SK6-L3</p>  <p>Weight: 0,1 kg Dimensions: 1100x1100x80</p>
<p>P-SK-ZW</p>  <p>Weight: 0,40 kg Dimensions: 119x75x50</p>	<p>SK5-ZW2</p>  <p>Weight: 0,53 kg Dimensions: 129x90x50</p>

<p>SK5-P1 (P-SK5-PD1.1)</p>  <p>Weight: 51,6 kg Dimensions: 1100x1100x80</p>	<p>SK5-P2 (P-SK5-PD1.25)</p>  <p>Weight: 74,00 kg Dimensions: 1350x1350x80</p>
<p>SK5-P4 (P-SK5-PD1.69x1.1)</p>  <p>Weight: 78,2 kg Dimensions: 1690x1100x80</p>	<p>SK5-P5 (P-SK5-PD1.69x1.25)</p>  <p>Weight: 93,68 kg Dimensions: 1690x1350x80</p>
<p>SK5-P6 (P-SK5-PD2.4)</p>  <p>Weight: 111,70 kg Dimensions: 2440x1100x80</p>	<p>SK5-P8 (P-SK5-PD2.4x1.25)</p>  <p>Weight: 133,7 kg Dimensions: 2440x1350x80</p>

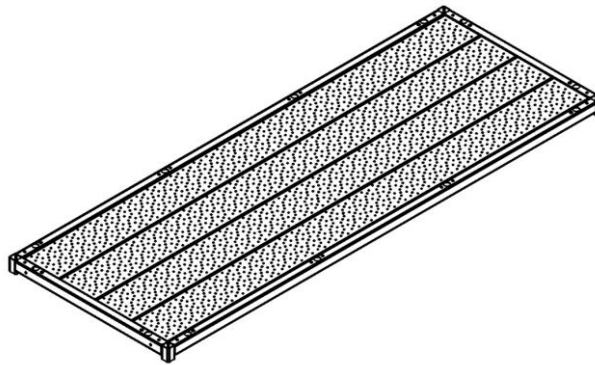
SK5-P9



Weight: 134,20 kg

Dimensions: 2440x1350x80

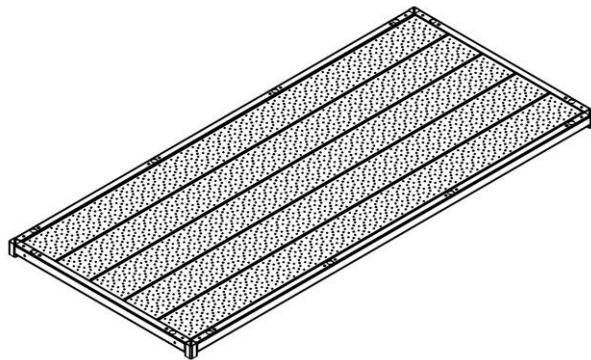
SK5-P10



Weight: 136,9 kg

Dimensions: 2989x1100x80

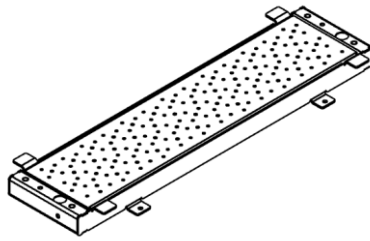
SK5-P11



Weight: 164,03 kg

Dimensions: 2989x1350x80

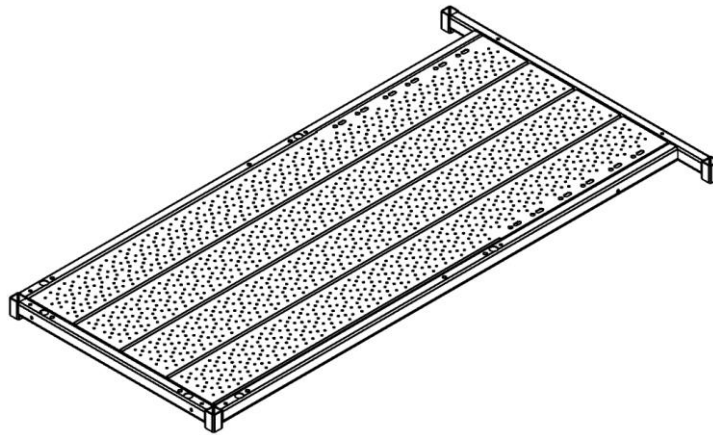
SK6-P12



Weight: 15,96 kg

Dimensions: 1100x340x60

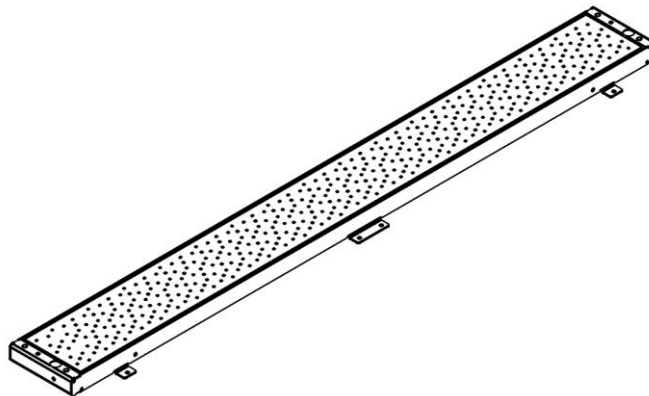
SK6-P13



Weight: 115,39 kg

Dimensions: 2545x1450x80

SK6-P14

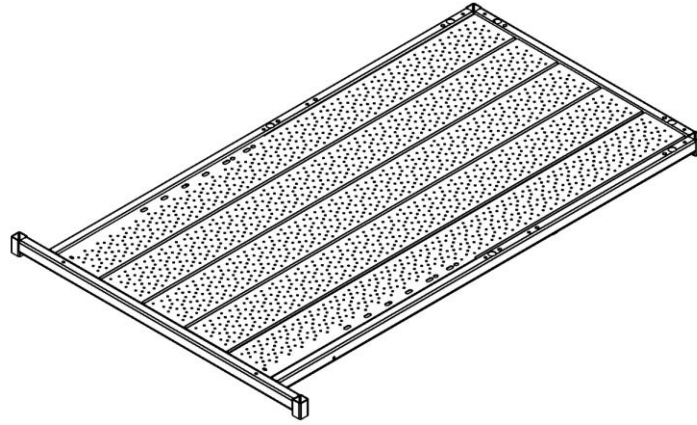


Weight: 33,8 kg

Dimensions: 2440x340x60



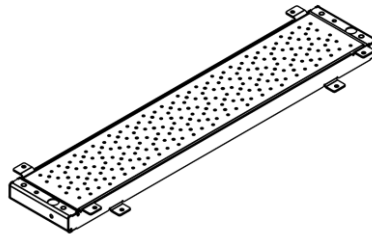
SK6-P15



Weight: 137,5 kg

Dimensions: 2545x1700x80

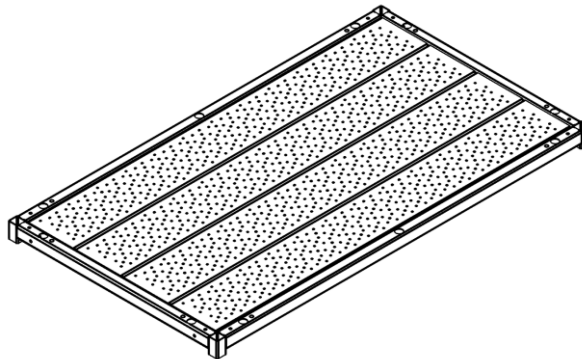
SK6-P16



Weight: 19,1 kg

Dimensions: 1350x340x60

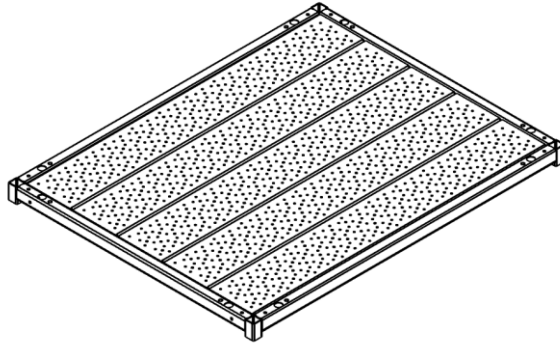
SK6-P17



Weight: 87,1 kg

Dimensions: 1961x1100x80

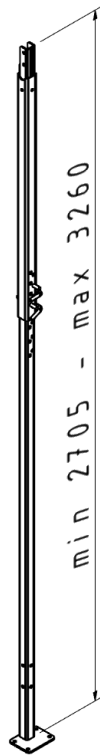
SK6-P18



Weight: 91,9 kg

Dimensions: 1711x1350x80

SK6-PR1 (P-SK6-PR2)



Weight: 23,90 kg

Dimensions: 3260x130x100

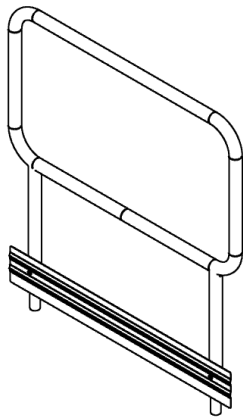
SK6-PR2



Weight: 22,62 kg

Dimensions: 3125x50x50

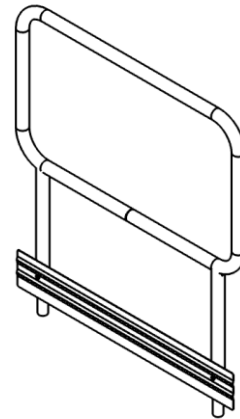
SK5-B1 (P-SK5-BP1.04)



Weight: 11,06 kg

Dimensions: 1170x1040x50

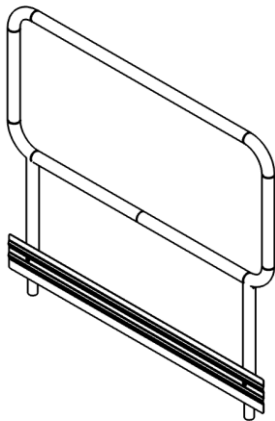
SK5-B2 (P-SK5-BP1.1)



Weight: 10,70 kg

Dimensions: 1170x1000x50

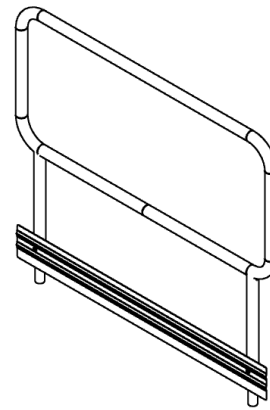
SK5-B3 (P-SK5-BP1.2)



Weight: 12,36 kg

Dimensions: 1250x1170x50

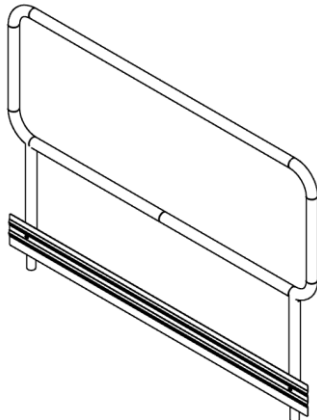
SK5-B4 (P-SK5-BP1.28)



Weight: 12,55 kg

Dimensions: 1281x1170x50

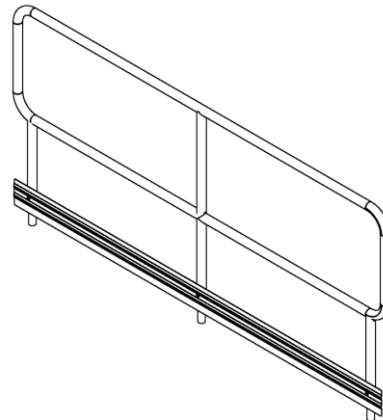
SK5-B5 (P-SK5-BP1.69)



Weight: 14,47 kg


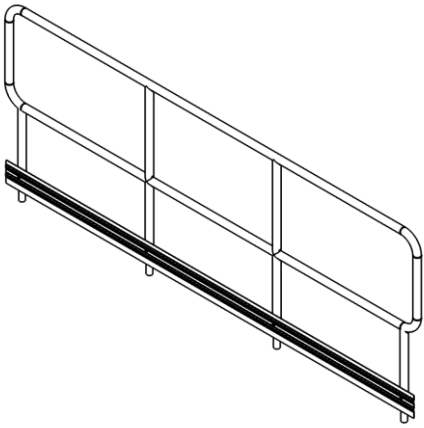
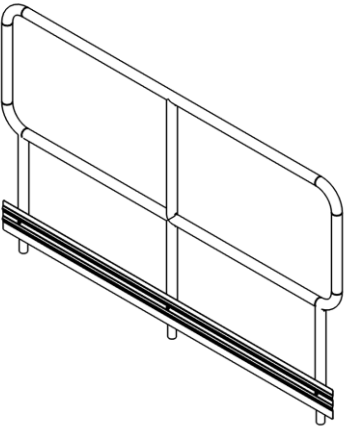
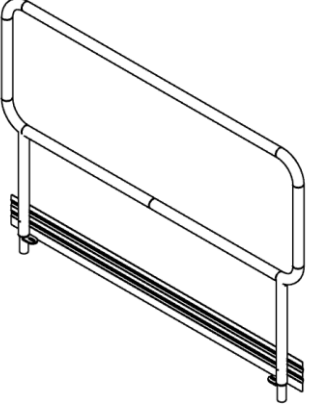
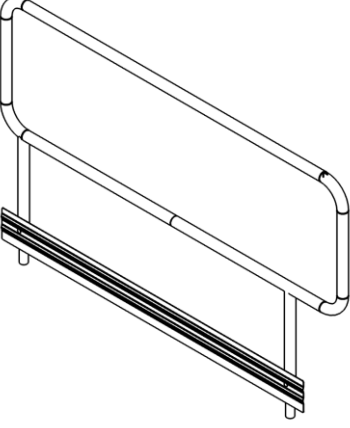
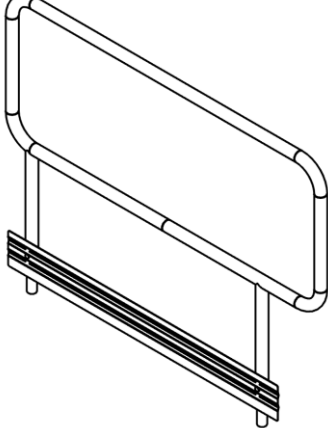
Dimensions: 1590x1170x50

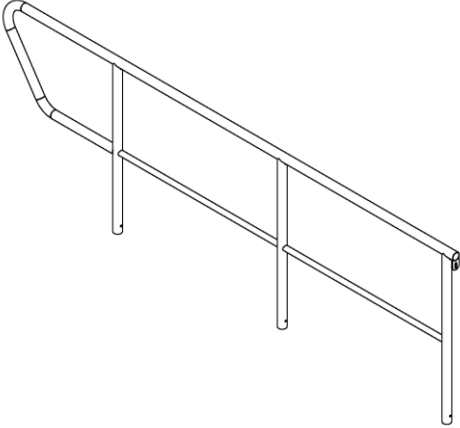
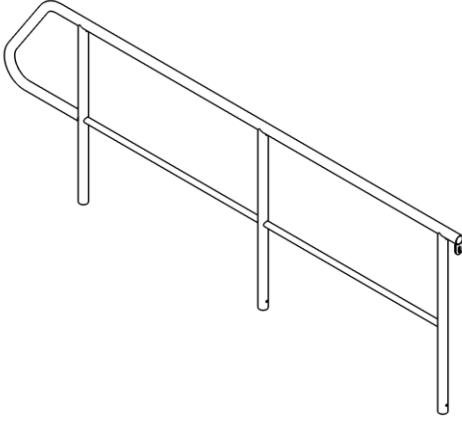
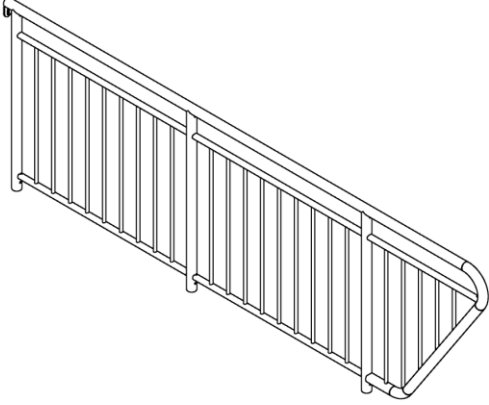
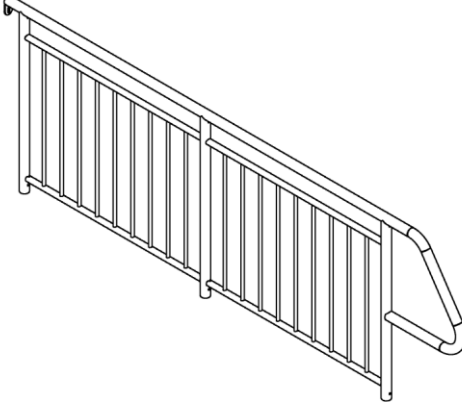


SK5-B6 (P-SK5-BP2.4)

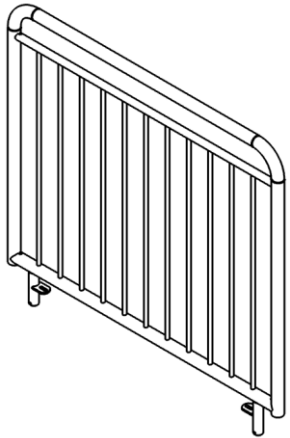
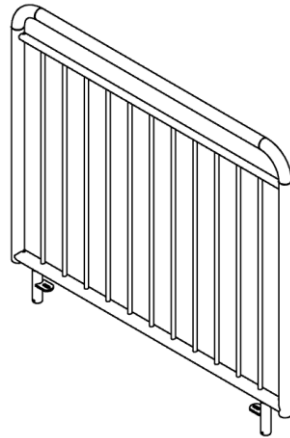
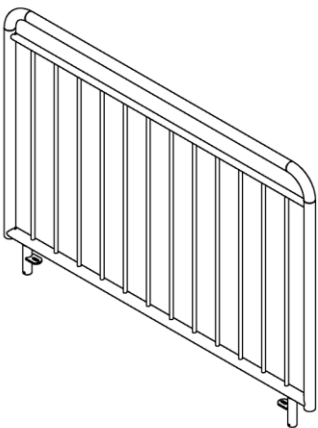
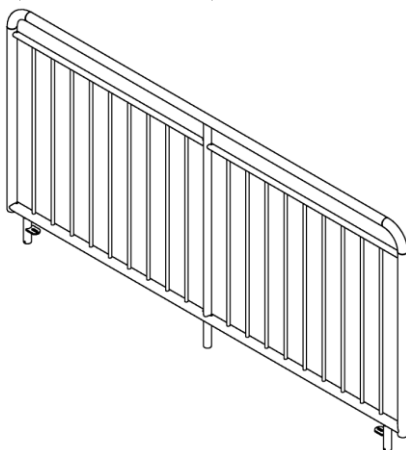
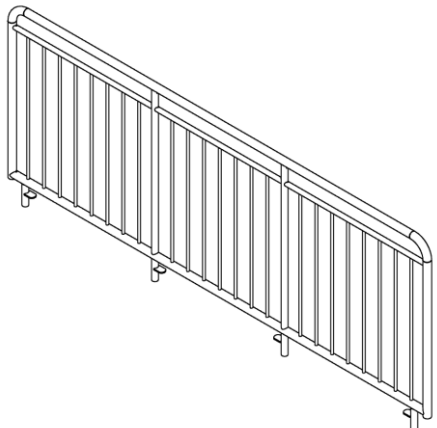
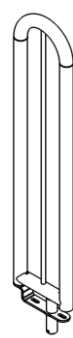


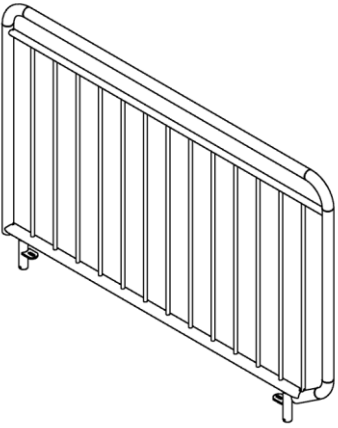
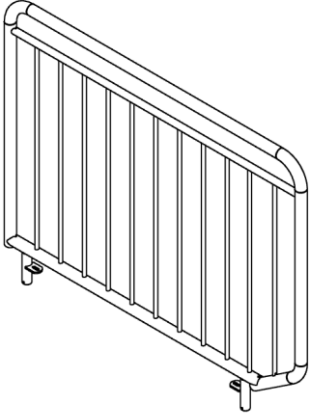
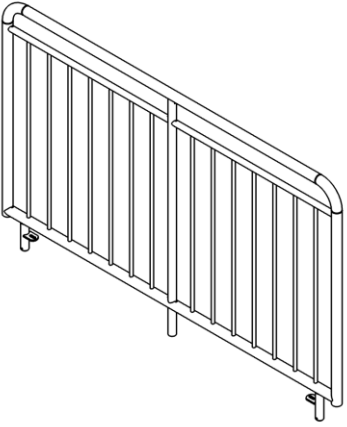
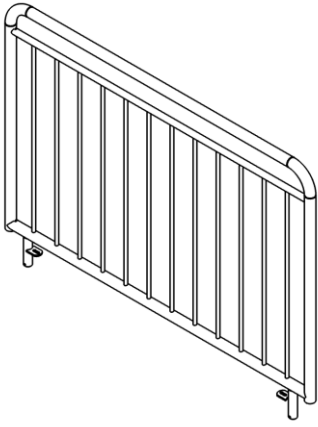
Weight: 21,61 kg

Dimensions: 2340x1170x50

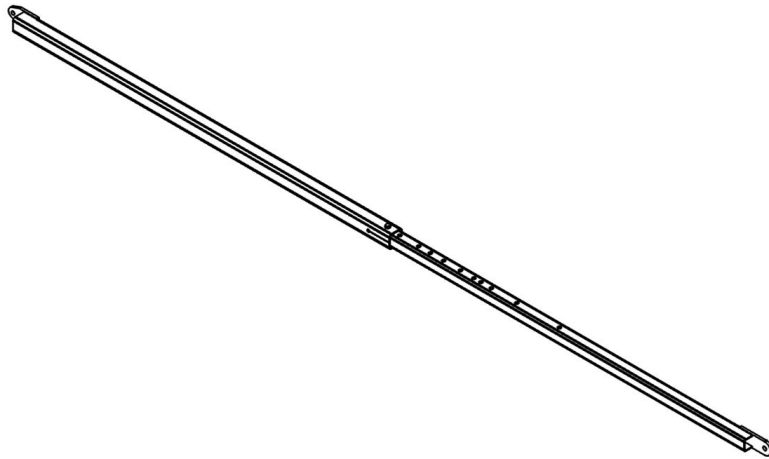
<p>SK5-B14 (P-SK5-BP-0.25)</p>  <p>Weight: 7,05 kg Dimensions: 1170x251x50</p>	<p>SK5-B15 (P-SK5-BP3.0)</p>  <p>Weight: 29,56 kg Dimensions: 2900x1170x50</p>
<p>SK5-B16</p>  <p>Weight: 18,6 Dimensions: 1861x1170x50</p>	<p>SK5-B17</p>  <p>Weight: 14,6 kg Dimensions: 1609x1170x50</p>
<p>SK6-B11</p>  <p>Weight: 16,55 kg Dimensions: 1720x1170x50</p>	<p>SK6-B12</p>  <p>Weight: 10,73 Dimensions: 1460x1170x50</p>

<p>SK5-BS1 (P-SK5-BS-1)</p>  <p>Weight: 17,11 Dimensions: 2755x921x42</p>	<p>SK5-BS2 (P-SK5-BS-2)</p>  <p>Weight: 16,29 kg Dimensions: 2611x921x42</p>
<p>SK5-BS3 (P-SK5-BS-B-1)</p>  <p>Weight: 25,76 kg Dimensions: 2755x921x42</p>	<p>SK5-BS4 (P-SK5-BS-B-2)</p>  <p>Weight: 22,94 kg Dimensions: 2612x921x42</p>
<p>SK6-B1 (P-SK6-BP1.1-B)</p>  <p>Weight: 12,33 kg Dimensions: 1000x1175x42</p>	<p>SK6-B2 (P-SK6-BP1.04-B)</p>  <p>Weight: 14,85 kg Dimensions: 1042x1175x42</p>

<p>SK6-B3 (P-SK6-BP1.25-B)</p>  <p>Weight: 16,75 kg Dimensions: 1238x1175x42</p>	<p>SK6-B4 (P-SK6-BP1.28-B)</p>  <p>Weight: 16,95 kg Dimensions: 1281x1175x42</p>
<p>SK6-B5 (P-SK6-BP1.69-B)</p>  <p>Weight: 19,24 kg Dimensions: 1590x1175x42</p>	<p>SK6-B6 (P-SK6-BP2.4-B)</p>  <p>Weight: 28,71 kg Dimensions: 2340x1175x42</p>
<p>SK6-B8</p>  <p>Weight: 38,5 kg Dimensions: 2900x1175x42</p>	<p>SK6-B10 (SK6-BB4)</p>  <p>Weight: 7,14 kg Dimensions: 1175x242x42</p>

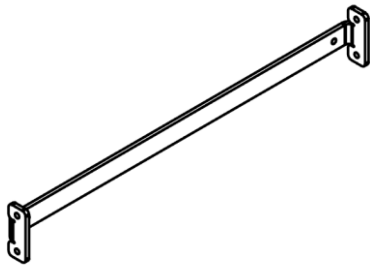
<p>SK6-B13</p>  <p>Weight: 19,63 kg Dimensions: 1700x1175x42</p>	<p>SK6-B14</p>  <p>Weight: 18,1 Dimensions: 1450x1175x42</p>
<p>SK6-B15</p>  <p>Weight: 23, 9 kg Dimensions: 1861x1175x42</p>	<p>SK6-B16</p>  <p>Weight: 19, 3 kg Dimensions: 1609x1175x42</p>

SK6-X1 (P-SK6-X1)



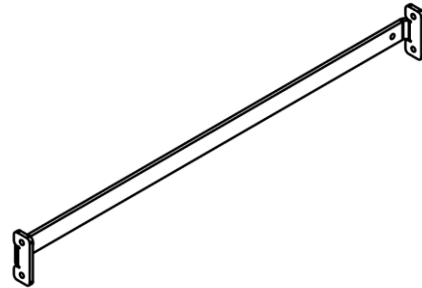
Weight: 14,8  
Dimension: 2933xx

SK6-O1 (P-SK6-O1)



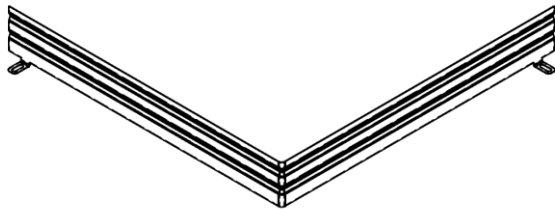
Weight: 4,8  
Dimensions: 1000x130x40

SK6-O2 (P-SK6-O2)



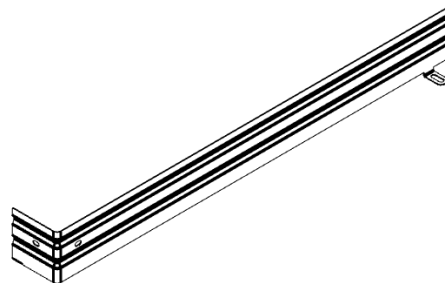
Weight: 5,8  
Dimensions: 1250x130x40

SK6-K01



Weight: 4,54  
Dimensions: 10450x1045x150

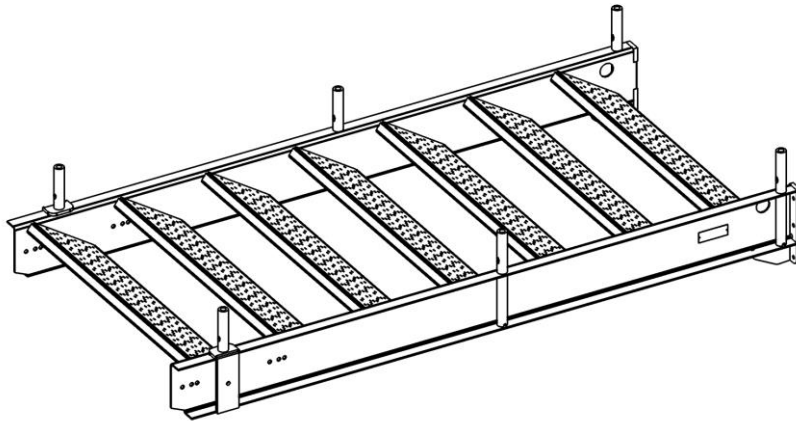
SK6-K03/SK6-K04



Weight: 3,16  
Dimensions: 1242x196x150



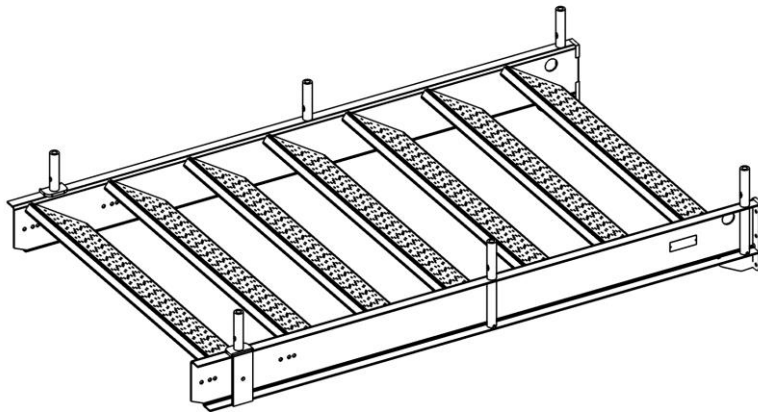
SK5-S1 (P-SK5-SB-FD1.1)



Weight 86,88 kg

Dimensions: 2312x1100x431

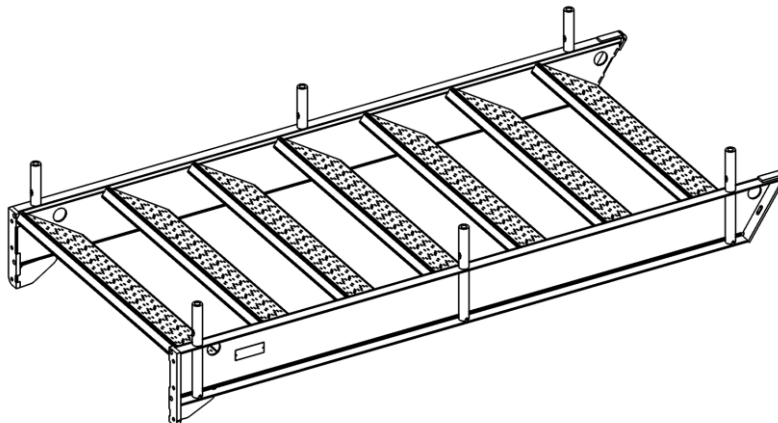
SK5-S2 (P-SK5-SB-FD1.25)



Weight: 96,79 kg

Dimensions: 2312x1370x431

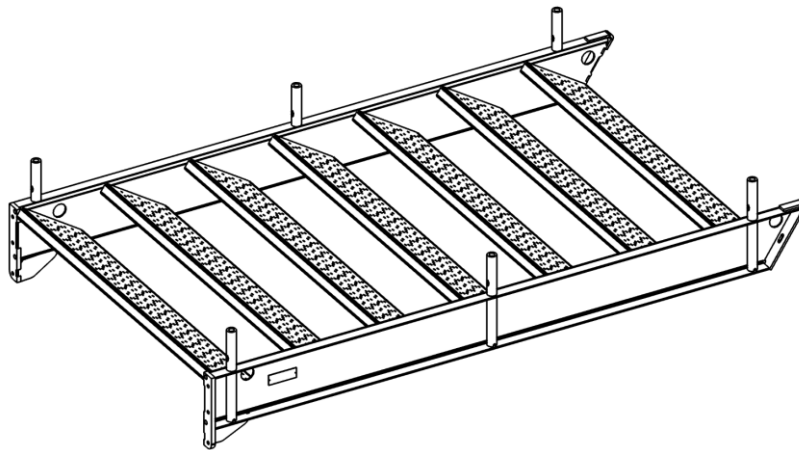
SK5-S3 (P-SK5-SB-FG1.1)



Weight: 87, 31 kg

Dimensions: 2304x1100x431

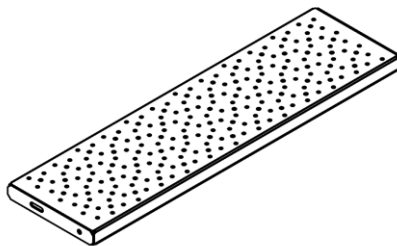
SK5-S4 (P-SK5-SB-FG1.25)



Weight: 97,22 kg

Dimensions: 2304x1350x431

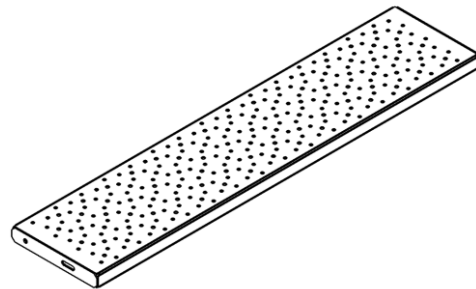
SK5-ST1 (P-SK5-SB-E1.1)



Weight: 8,8 kg

Dimensions: 1008x280x40

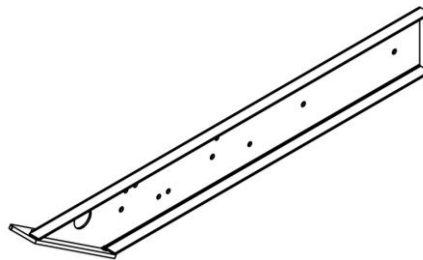
SK5-ST2 (P-SK5-SB-E1.25)



Weight: 10,9 kg

Dimensions: 1258x280x40

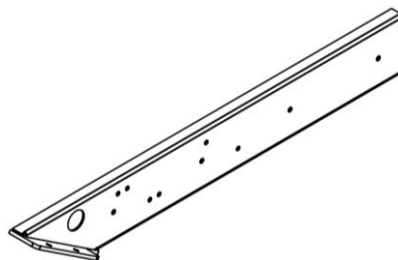
SK5-Z1 (P-SK5-SB-FR1.1A)



Weight: 14,60 kg

Dimensions: 1406x196x100

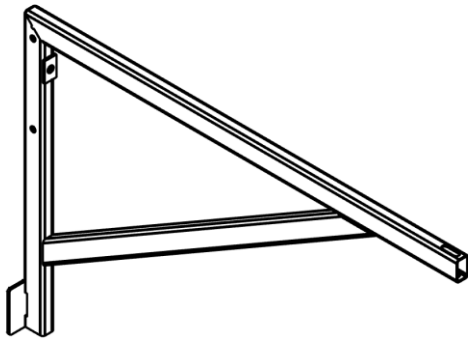
SK5-Z2 (P-SK5-SB-FR1.1B)



Weight: 14,60 kg

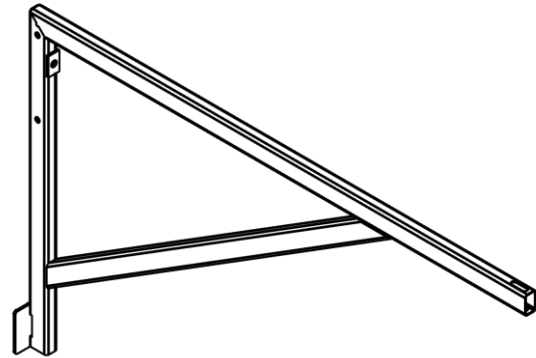
Dimensions: 1406x196x100

SK5-W1 (P-SK5-WT1.1)



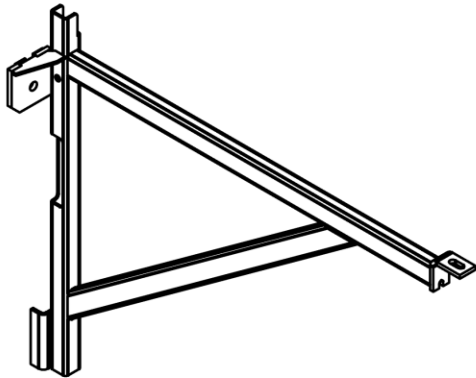
Weight: 9,15 kg  
Dimensions: 1105x695x110

SK5-W2 (P-SK5-WT1.2)



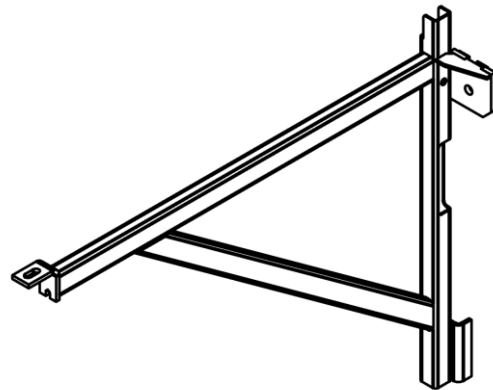
Weight: 10,74 kg  
Dimensions: 1355x795x110

SK5-W3 (P-SK5-WT-1.1-ML)



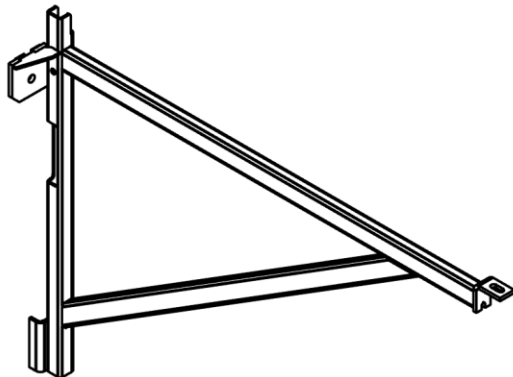
Weight: 9,81 kg  
Dimensions: 1041x720x140

SK5-W4 (P-SK5-WT-1.1-MP)



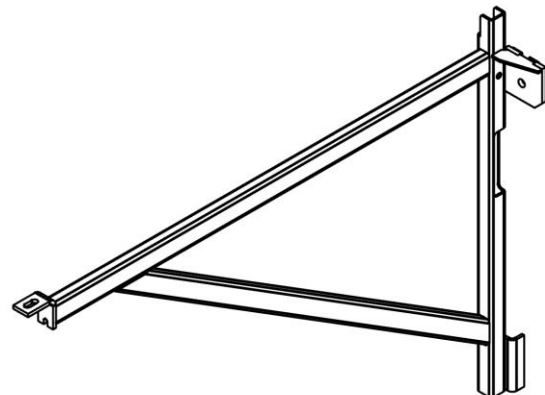
Weight: 9,82 kg  
Dimensions: 1041x720x140

SK5-W5 (P-SK5-WT-1.2-ML)



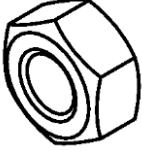
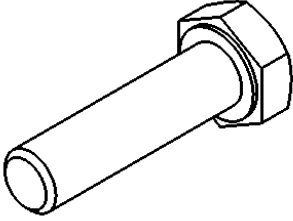
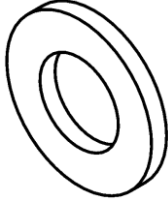

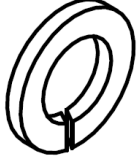
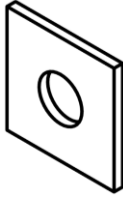
Weight: 12,71 kg  
Dimensions: 1291x820x140

SK5-W6 (P-SK5-WT-1.2-MP)



Weight: 12,71 kg  
Dimensions: 1291x820x140

### 3. Graphical list of SK5 system fasteners

 <p>M12 M10 M8</p>	 <p>M10x140      M12x50 M10x120      M8x60 M10x90        M8x40 M10x60 M10x30</p>	 <p>W12 W10 W8</p>
 <p>EW 12</p>	 <p>WS12 WS8</p>	 <p>SW 14</p>

## 4. List of SK5 system components

The list of components in table 1 presents the components of the container stair system, their quantity depending on the configuration, and the type of the system ordered by the customer (to be selected from the ID, component description columns).

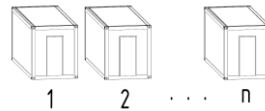
ID	Former ID	Component description	Configurations															
			1	2	3	4	4a	5	5b	6	7	8	10	12	13	14	15	
SK5-S1	P-SK5-SB-FG1.1	Upper stair module 1100	1	1	1	1	1	0	0	1	0	1	1	1	1	1	2	
SK5-S3	P-SK5-SB-FG1.2	Upper stair module 1200																
SK5-S2	P-SK5-SB-FD1.1	Lower stair module 1100	1	1	1	1	1	0	0	1	0	1	1	1	1	1	2	
SK5-S4	P-SK5-SB-FD1.2	Lower stair module 1200																
SK5-Z1	P-SK5-SB-FR1.1/B	Right stair foot	1	1	1	1	1	0	0	1	0	1	1	1	1	1	2	
SK5-Z2	P-SK5-SB-FR1.1/A	Left stair foot	1	1	1	1	1	0	0	1	0	1	1	1	1	1	2	
SK5-P1	P-SK5-PD1.1	Platform 1100x1100	0	1	1	0	1	0	0	0	0	0	0	1	1	0	2	
SK5-P4	P-SK5-PD1.2	Platform 1200x1200																
SK5-P3	P-SK5-PD2.4	Platform 2440x1100	1	1	1	1	0	1	0	0	1	1	1	0	1	0	6	
SK5-P6	P-SK5-PD2.4-1.2	Platform 2440x1200																
SK5-P2	P-SK5-PD1.69	Platform 1690x1100	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	
SK5-P5	P-SK5-PD1.69x1.2	Platform 1690x1200																
SK5-P7	-	Platform 3000x1200	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	
SK5-P8	-	Platform 3000x1100																
SK5-P9	-	Platform 2440x1200 with offset railing	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	
SK6-P12	-	Platform filling 1100	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	
SK6-P16	-	Platform filling 1200																
SK6-P14	-	Platform filling 2P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
SK6-P13	-	Platform 2P 1100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
SK6-P15	-	Platform 2P 1200																
SK6-P17	-	Platform 1100x1961	0	0	0	0	0	0	0	0	0	0	0	1	0	0		
SK6-P18	-	Platform 1350x1711																
Support i	SK5-W1	P-SK5-WT1.1	Platform support 1100	2	2	2	1	1	2	2	1	4	2	0	2	2	1	12
	SK5-L1	P-SK5-LP	LP1 Connector	1	1	1	1	1	1	1	1	2	1	0	2	1	1	6
	SK5-W3 SK5-W4	P-SK5-WT-1.1-ML	Left Platform Support 1100 for sea containers	1	1	1	1	1	1	1	1	2	1	0	1	1	1	6
		P-SK5-WT-1.1-MP	Right Platform Support 1100 for sea containers	1	1	1	1	1	1	1	1	2	1	0	1	1	1	6
	SK5-W2	P-SK5-WT1.2	Platform support 1200	2	2	2	1	1	2	2	1	4	2	0	2	2	1	12
	SK5-L1	P-SK5-LP	LP1 Connector	1	1	1	1	1	1	1	1	2	1	0	2	1	1	6
	SK5-W5 SK5-W6	P-SK5-WT-1.2-ML	Left Platform Support 1200 for sea containers	1	1	1	1	1	1	1	1	2	1	0	1	1	1	6
		P-SK5-WT-1.2-MP	Right Platform Support 1200 for sea containers	1	1	1	1	1	1	1	1	2	1	0	1	1	1	6
	SK5-L5	-	Shipping container console L	1	1	1	0	0	1	1	0	2	1	0	1	1	1	6
	SK5-L6	-	Shipping container console P	1	1	1	0	0	1	1	0	2	1	0	1	1	1	6
	SK5-PR1	P-SK5-PR	Post 01	1	2	2	0	0	2	0	0	0	1	0	2	2	1	0
	SK5-PR2	P-SK5-PR2	Post 02															

ID	Former ID	Component description	Configurations														
			1	2	3	4	4a	5	5b	6	7	8	10	12	13	14	15
SK5-BS1	P-SK5-BS-1	Industrial stair railing 01	2	2	2	2	2	0	0	2	0	2	2	2	2	2	4
SK5-BS3	P-SK5-BS-B-1	Safety stair railing 01															
SK5-B2	P-SK5-BS-2	Industrial stair railing 02	2	2	2	2	2	0	0	2	0	2	2	2	2	2	4
SK6-B1	P-SK5-BS-B-2	Safety stair railing 02															
SK5-B3	P-SK5-BP1.1	Industrial platform railing 1100x1100	1	3	3	1	2	0	0	1	0	2	1	2	4	1	7
SK6-B3	P-SK6-BP1.1-B	Safety platform railing 1100x1100															
SK5-B4	P-SK5-BP1.2	Industrial platform railing 1200x1200															
SK6-B4	P-SK6-BP1.25-B	Safety platform railing 1200x1200															
SK5-B1	P-SK5-BP1.28	Industrial platform railing 1280	0	0	0	0	0	0	0	0	0	1	0	0	1	0	2
SK6-B2	P-SK6-BP1.28-B	Safety platform railing 1280															
SK5-B6	P-SK5-BP1.04	Industrial platform railing 1040															
SK6-B6	P-SK5-BP1.04-B	Safety platform railing 1040	1	1	1	1	0	1	0	0	1	0	1	0	0	1	3
SK5-B5	P-SK5-BP2.4	Industrial platform railing 2440															
SK6-B5	P-SK6-BP2.4-B	Safety platform railing 2440	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
SK5-B15	P-SK5-BP1.69	Industrial platform railing 1690															
SK6-B8	P-SK6-BP1.69-B	Safety platform railing 1690	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0
SK5-B14	P-SK5-BP3.0	Industrial platform railing 3000															
SK6-B10	-	Safety platform railing 3000	0	0	0	0	0	0	0	0	0	0	0	0	2	1	6
SK6-B11	P-SK5-BP-0.25	Railing 250															
SK6-B13	SK6-BB4	Safety railing 250															
SK6-B12	-	Industrial platform railing P13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
SK6-B14	-	Safety platform railing P13															
SK5-B16	-	Industrial platform railing P15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
SK6-B15	-	Safety platform railing P15															
SK5-B17	-	Industrial platform railing 1100x1961	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
SK6-B16	-	Safety platform railing 1100x1961															
SK5-B2	-	Industrial platform railing 1350x1711															
SK6-B1	-	Safety platform railing 1350x1711															

ID	Former ID	Component description	Configurations															
			1	2	3	4	4a	5	5b	6	7	8	10	12	13	14	15	
SK6-O1	P-SK6-O1	Lock 1	0	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0
SK6-O2	P-SK6-O2	Lock 2																
SK6-X1	P-SK6-X1	Bracing	0	0	0	0	0	0	0	0	0	0	0	4	4	0	0	0
SK6-L1	P-SK6-LP5	Connector SK6-L1	0	0	0	0	0	0	0	0	0	0	0	4	4	0	0	0
SK6-L3	-	Platform filling connector 2P	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2
SK5-L17	-	Platform connector P9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
SK6-K01	-	Toe board 2P 1100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
SK6-K02	-	Left toe board 2P 1200																
SK6-K03	-	Right toe board 2P 1200																
SK5-L1	P-SK5-LP	Connector LP1	1	2	1	1	1	1	1	1	1	2	1	0	2	1	1	6
SK5-L16/ SK5-L3	P-SK5-LP2/ P-SK5-LP3	Adjustable connector L16/LP3	0	0	0	1	1	0	0	1	0	0	2	2	0	1	0	0
P-SK-ZW	P-SK-ZW	Support clamp	2	2	2	1	1	2	2	1	4	2	0	2	2	1	12	0
SK5-KWL + SK5-KW	-	Support consoles																
SK5-KWP + SK5-KW	-																	
SK5-D1	M-Z-P-K-14-ZN-Z	Square Washer PK	0	1	1	0	0	0	0	0	0	0	0	0	0	3	0	2
SK6-PR1	P-SK6-PR1	Post 01	3	4	5	3	3	$n+1$ *	$n+1$ *	3	$n+1$ **	3	4	5	6	2	12	0
SK6-PR2	-	Post 02	0	0	0	0	0	0	0	0	$n+1$ **	0	0	0	0	0	8	0
SK5-ST1	P-SK5-SB-E01	Supplementary step	$x^*$	$x^*$	$x^*$	$x^*$	$x^*$	0	0	$x^*$	0	$x^*$	$x^*$	$x^*$	$x^*$	$x^*$	$2x^*$	0
SK5-ST2	P-SK5-SB-E01-1.2																	

\* For container height: H = 2,6m - x = 0 H = 2,8m - x = 1 H = 2,9m - x = 2

\*\*n – number of joined containers



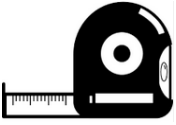



ID	Former ID	Component description															
		1	2	3	4	4a	5	5b	6	7	8	10	11	12	13	14	15
M-Z-S-SZ-12x50-8-ZO	Hexagon bolt M12x50-8.8 hot-dip galvanized (DIN933)	6	6	6	6	6	0	0	6	0	6	14	0	10	6	14	16
M-Z-S-SZ-10x140-8-ZO	Hexagon bolt M10x140-8.8 ISO 4014 hot-dip galvanized	2	2	2	1	1	2	2	1	4	2	0	2	2	2	0	12
M-Z-S-SZ-10x120-8-ZO	Hexagon bolt M10x120-8.8 ISO 4014 hot-dip galvanized	0	3	2	0	0	2	2	0	4	0	0	2	4	2	0	10
M-Z-S-SZ-10x90-8-ZO	Hexagon bolt M10x90-8.8 hot-dip galvanized, ISO4017	8	12	12	7	7	4	4	7	8	10	30	4	14	17	30	64
M-Z-S-SZ-10x60-8-ZO	Hexagon bolt M10x60-8 hot-dip galvanized, ISO4017	2	4	4	2	2	2	2	2	4	2	0	2	8	2	0	12
M-Z-S-SZ-10x30-8-ZO	Hexagon bolt M10x30-8.8 hot-dip galvanized ISO 4017	14	14	14	14	14	0	0	14	0	14	14	0	10	10	14	28
M-Z-S-SZ-8x60-8-ZO	Hexagon bolt M8x60-8.8 hot-dip galvanized, ISO 4017	4	4	4	4	4	0	0	4	0	4	4	0	4	4	4	9
M-Z-P-Z-12-ZO	Washer M12 hot-dip galvanized ISO7089	12	12	12	12	12	0	0	12	0	12	28	0	28	20	28	32
M-Z-P-Z-10-ZO	Washer M10 hot-dip galvanized ISO7089	52	70	64	48	48	20	20	48	40	56	88	20	96	64	88	252
M-Z-P-Z-8-ZO	Washer M8 hot-dip galvanized ISO7089	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
M-Z-P-P-12-ZO	Extended washer M12 hot-dip galvanized ISO7093	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
M-Z-N-SZ-12-8-ZO	Nut M12-8 hot-dip galvanized, ISO 4032	6	6	6	6	6	0	0	6	0	6	14	0	14	10	14	16
M-Z-N-SZ-10-8-ZO	Nut M10-8 hot-dip galvanized, ISO 4032	26	35	32	24	24	10	10	24	20	28	44	10	48	32	44	126
M-Z-N-SZ-8-8-ZO	Nut M8-8 hot-dip galvanized, ISO 4032	4	4	4	4	4	0	0	4	0	4	4	0	4	4	4	9
M-Z-P-K-14-ZN-Z	Square Washer M14 8 hot-dip galvanized (50x50x8)	0	1	1	0	0	0	0	0	0	0	0	0	0	3	0	2



### 5. List of tools required for the container stair assembly

Table 1 List of tools

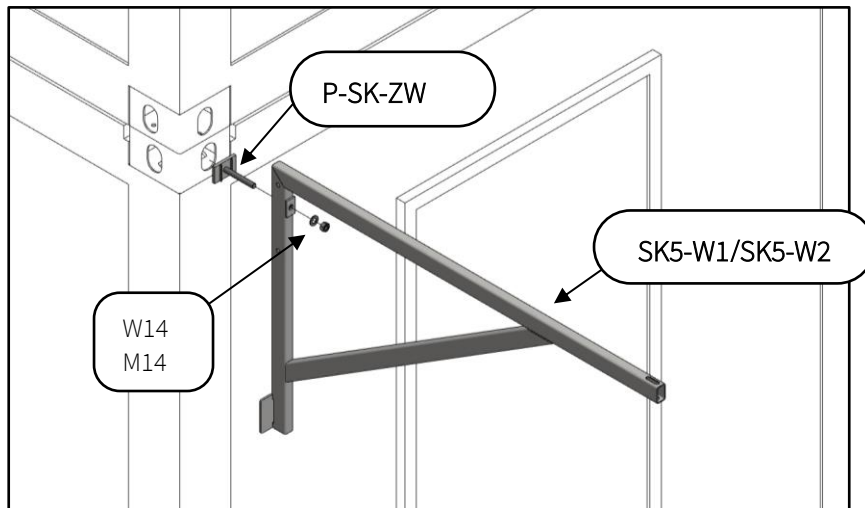
	<p>Wrenches: 22,19,18,17,16,13,10</p>
	<p>Level</p>
	<p>Tape measure</p>
	<p>Lifter with a lifting capacity of min. 1 t</p>

## 6. Assembly operations of individual components of the container stair system

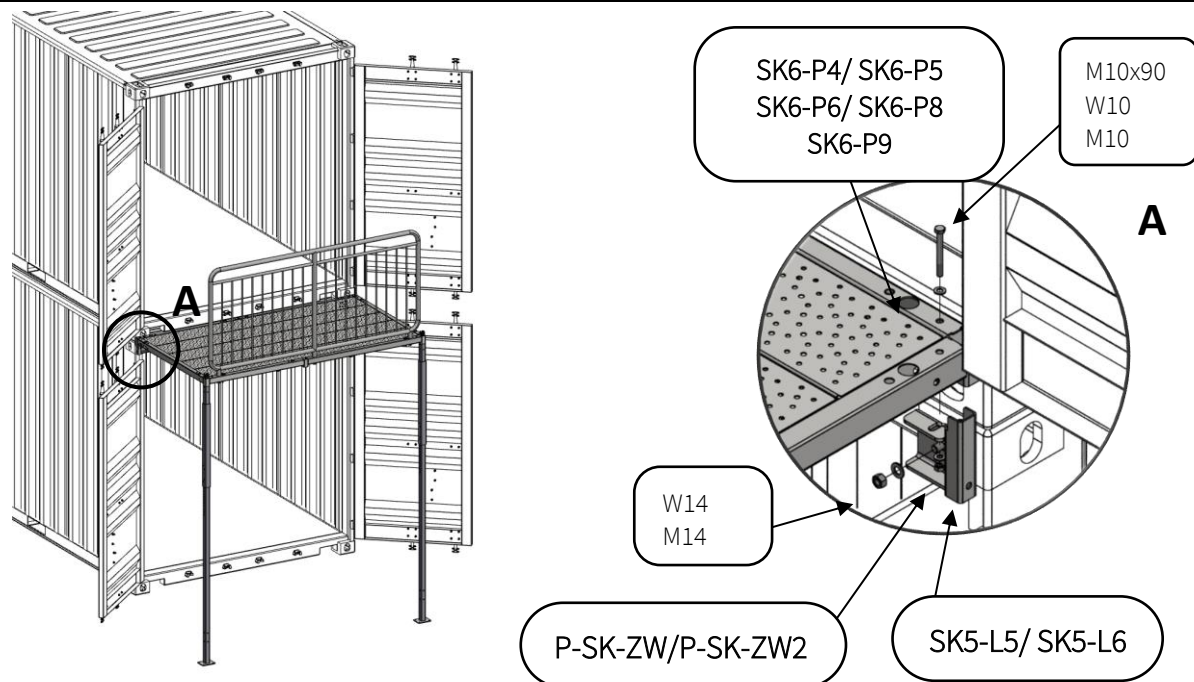
The assembly manual has been prepared in a way that shows how to assemble the individual elements of the container stair system.

### 6.1. SUPPORT ASSEMBLY

The supports are assembled by placing the support clamp in the container socket, then slide the support on and screw it with the washer and nut set.

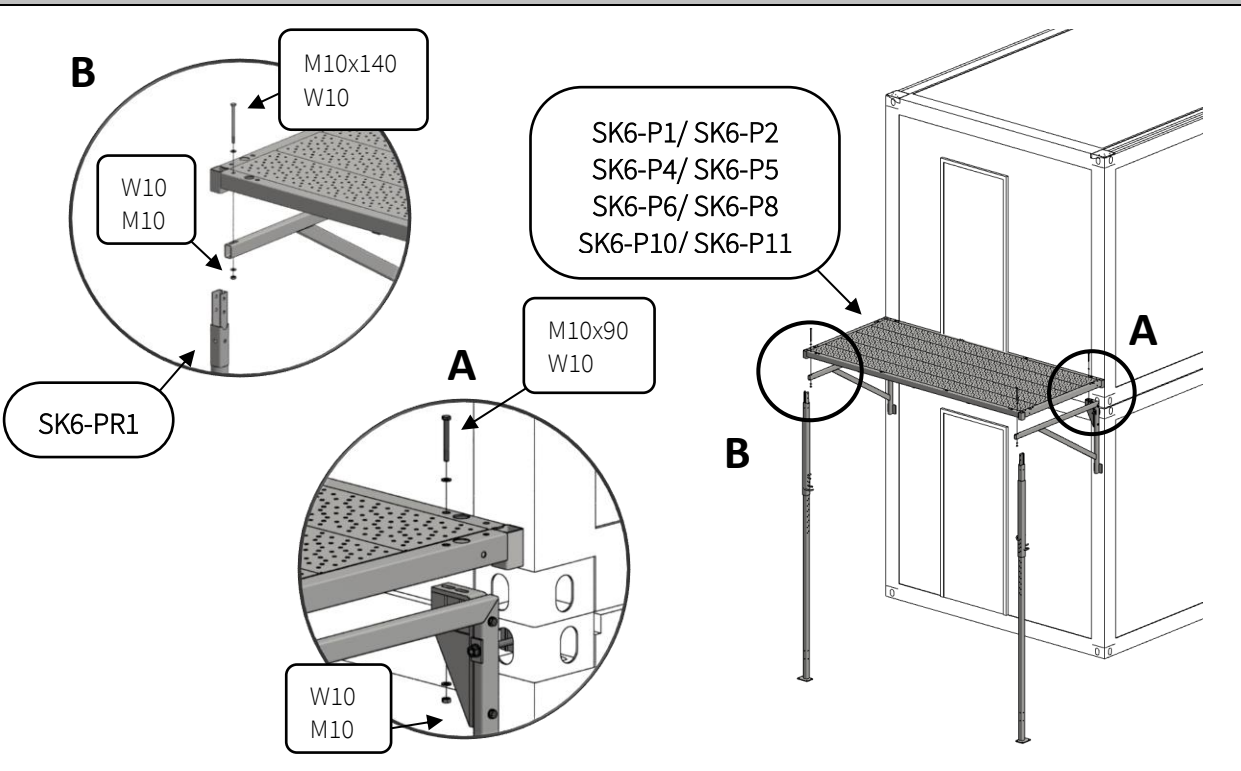


For sea containers, the SK5-L5 (left) and SK5-L6 (right) consoles are an alternative to supports.

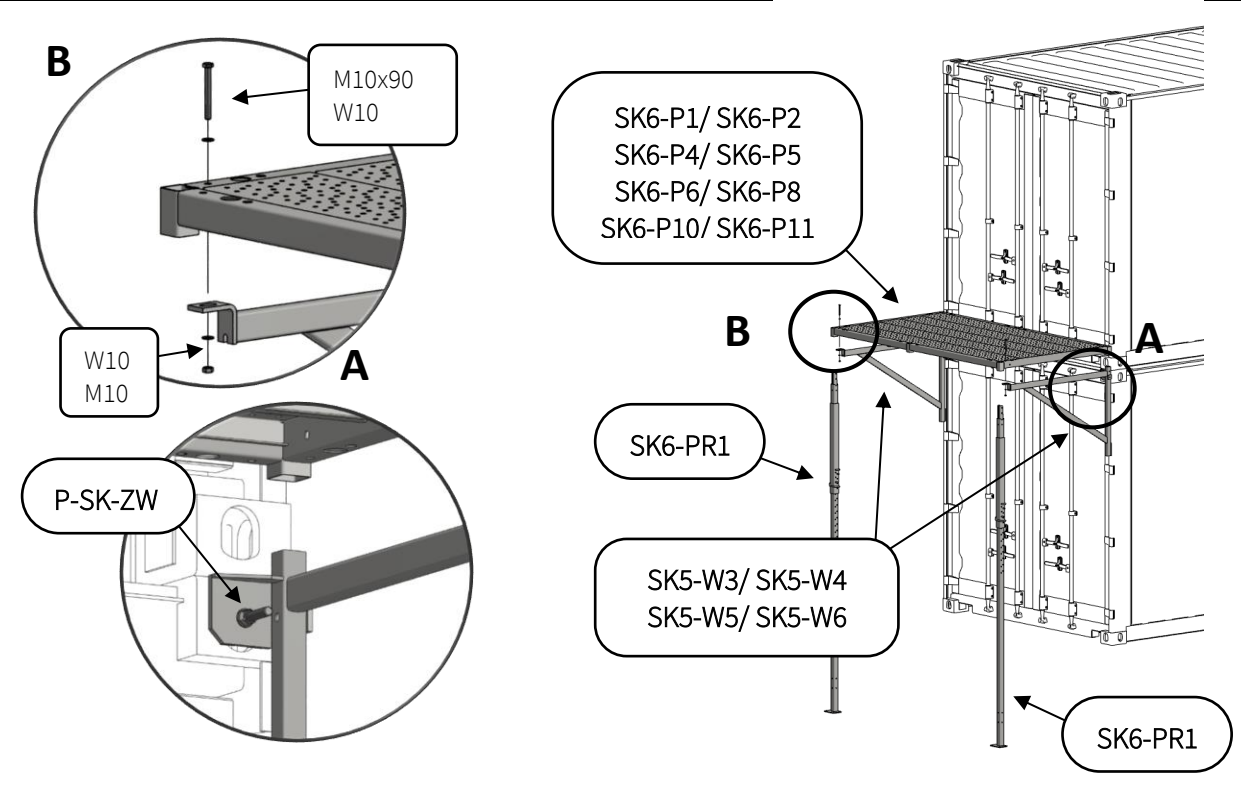


## 6.2. PLATFORM ASSEMBLY

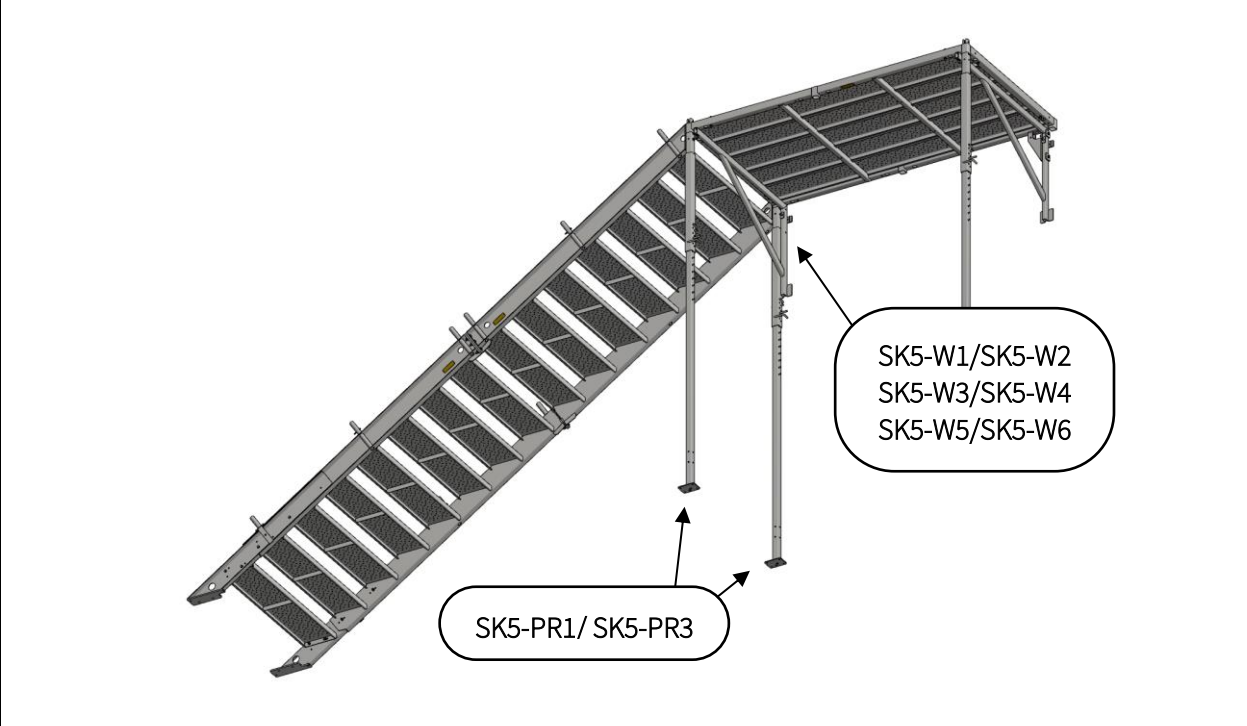
The platforms are assembled on supports and posts, and then screwed together with a set of a bolt, washer and nut..



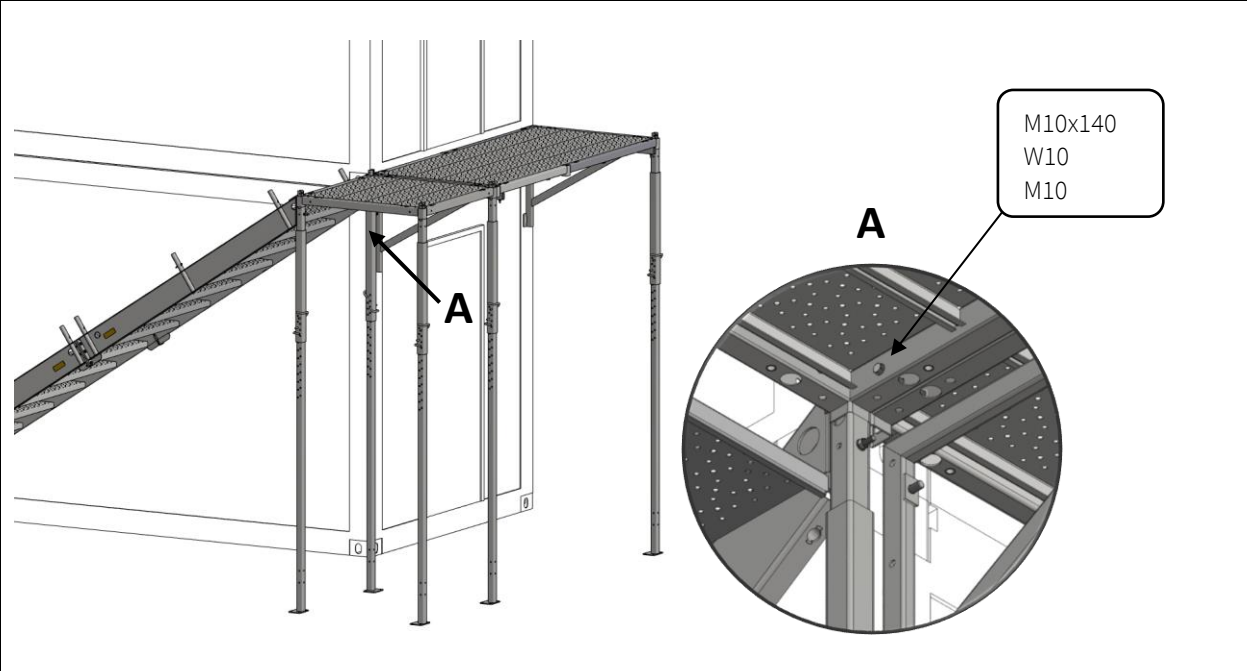
We use W3,W4,W5 and W6 supports for sea containers.  
The supports prevent the container doors from opening fully.



In the case when stairs are assembled to the platform, on this side, the platform should be supported by two posts

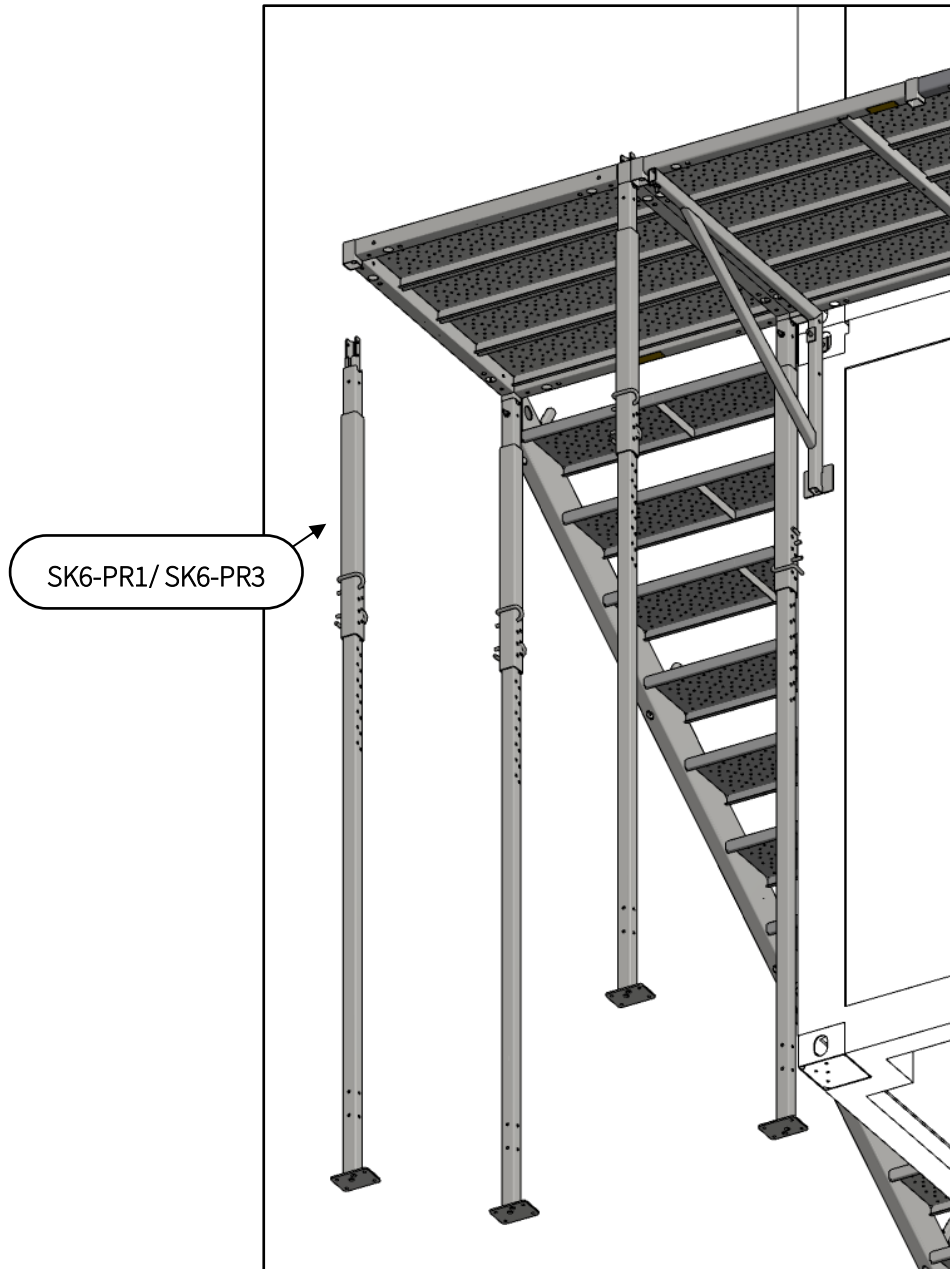


If it is not possible to assemble the platform on the supports, it should be supported at least in three sockets with posts and screwed to the adjacent platform which is assembled on the supports. The adjacent platforms should be screwed together with the set of washer PK, bolt, washers, nut.

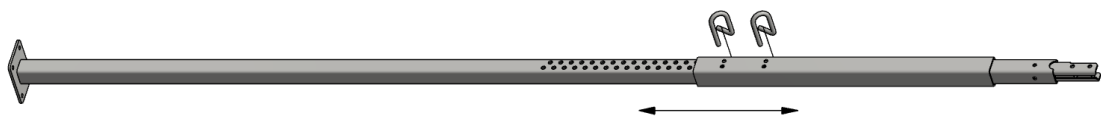


6.3. POST ASSEMBLY

The posts should be placed in the platform sockets.

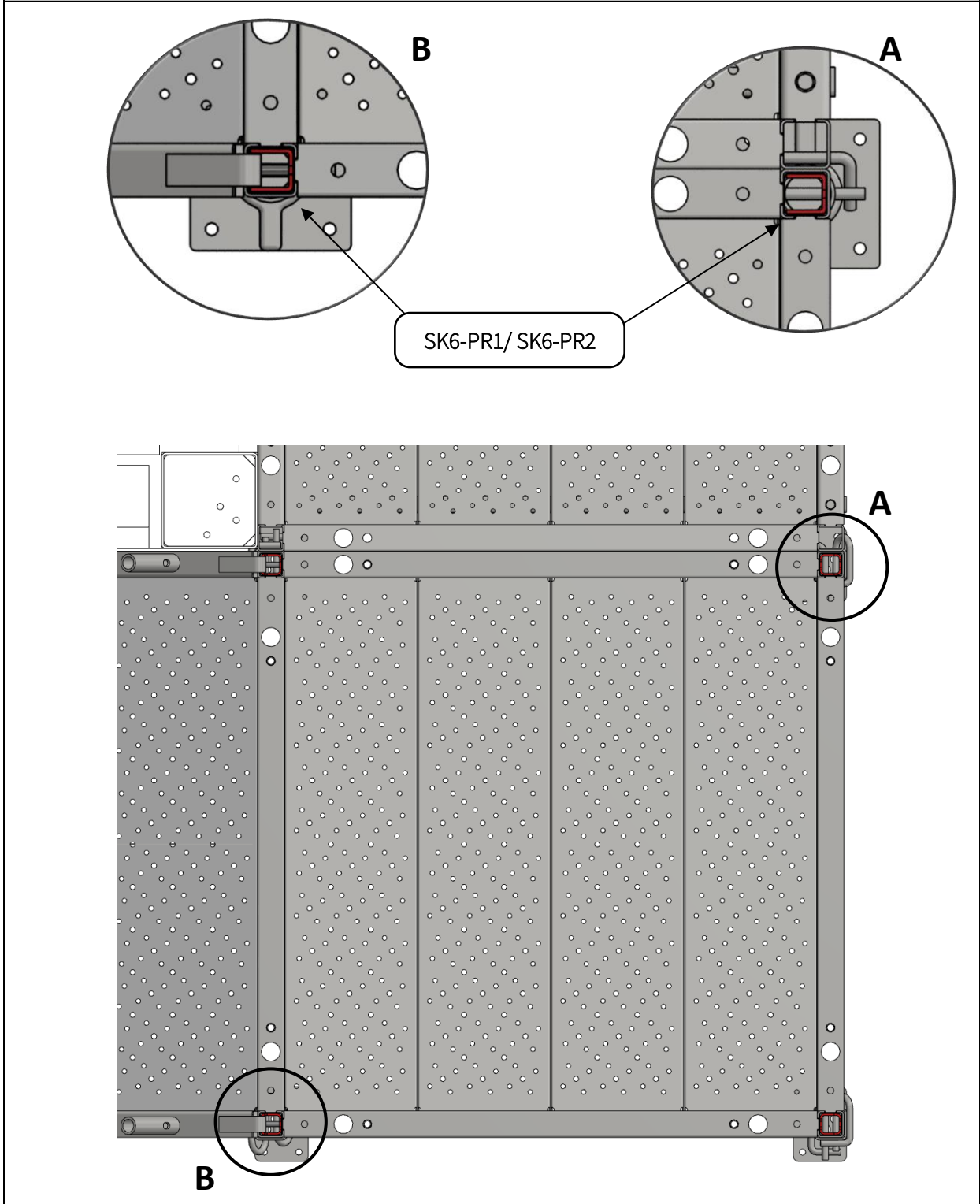


The height of the PR1 / PR2 post should be adjusted to the height of the container to which the stairs are assembled. To do this, disassemble the pins, adjust the height, and insert the pins in the appropriate holes.

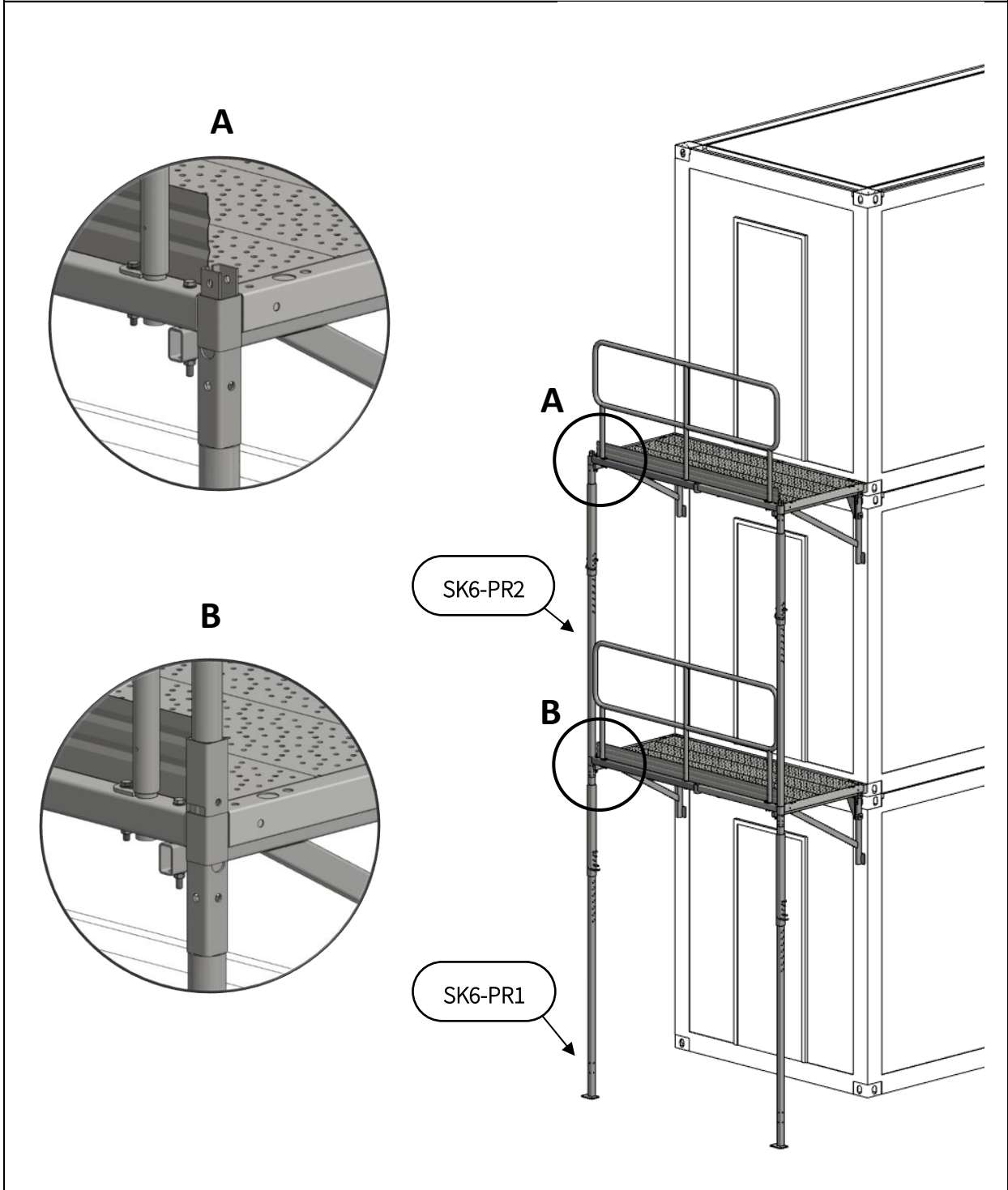




The posts that are assembled on the stairs should be placed so that the cut in the spindle of the post points towards the hook of the stairs.

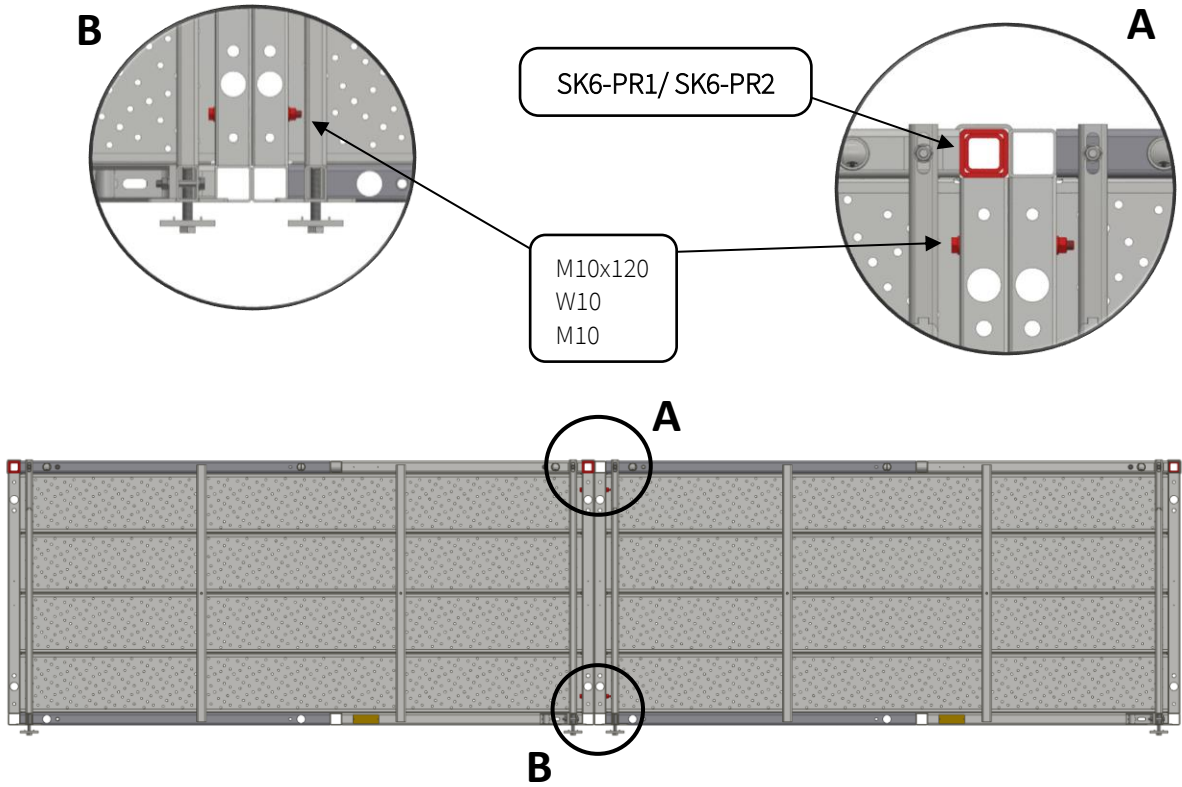


In the case of a multi-storey setting of container stairs, the platforms should be supported with posts from the ground level to the last platform.

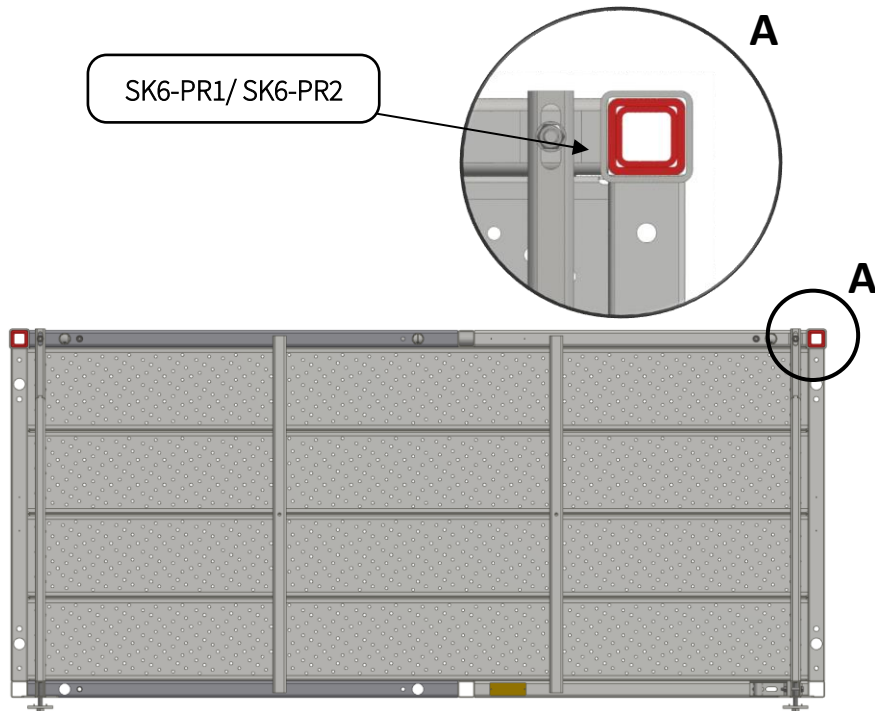




The posts for the platforms that are juxtaposed with each other.  
 Additionally, the platforms should be connected with two M10x120 bolts.

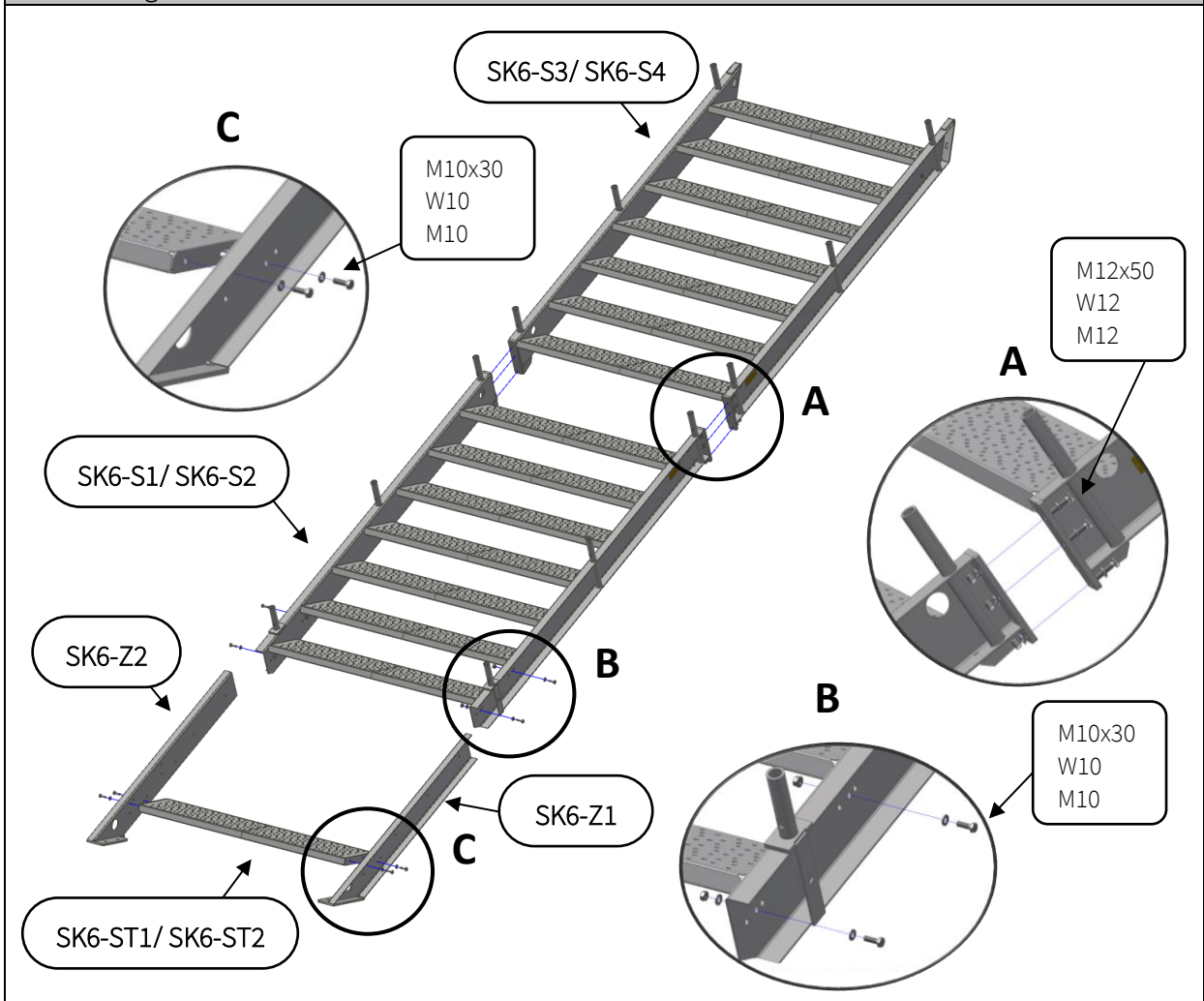


Posts for Configuration 7 in single assembly.

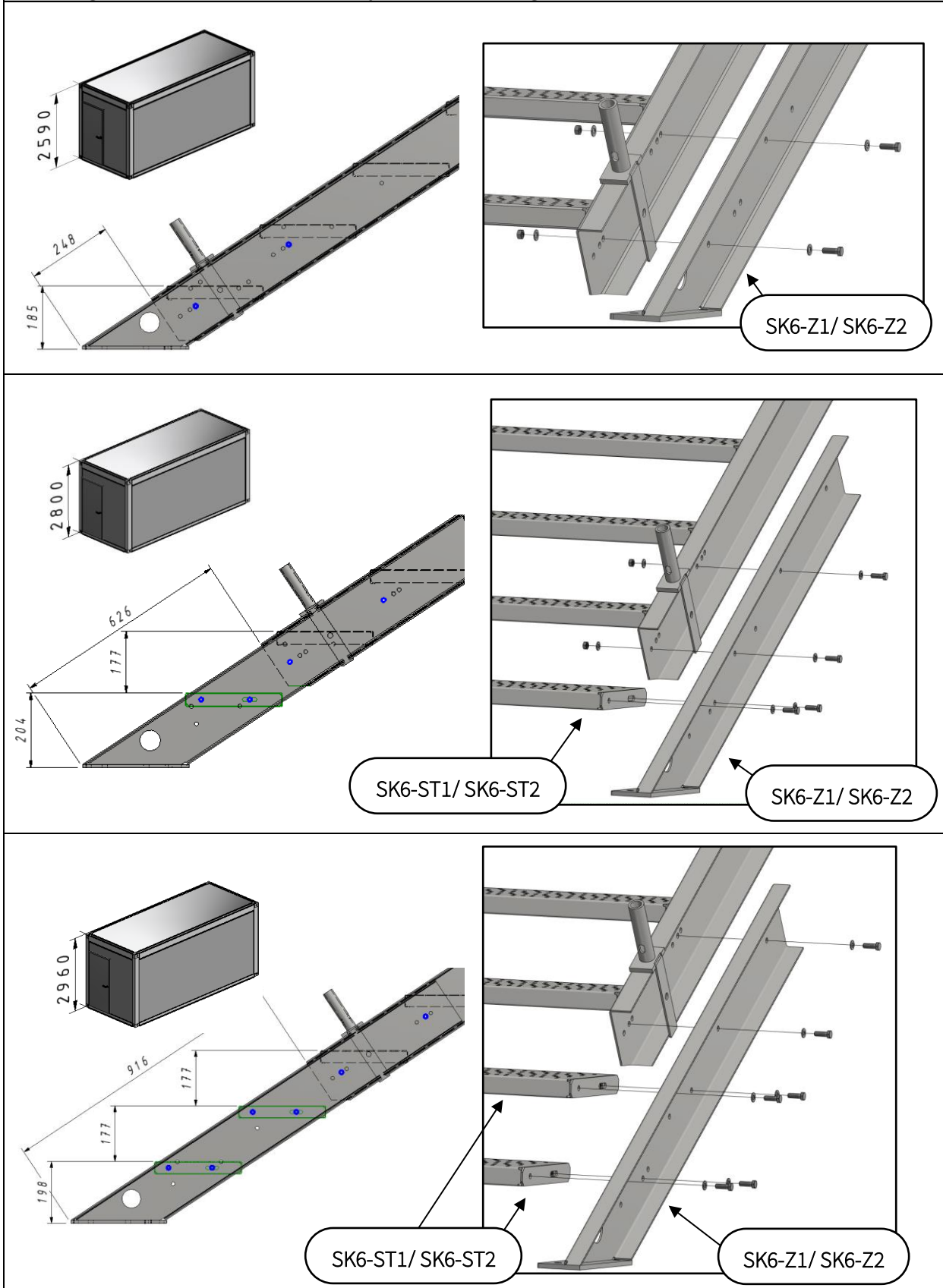


6.4. STAIR ASSEMBLY

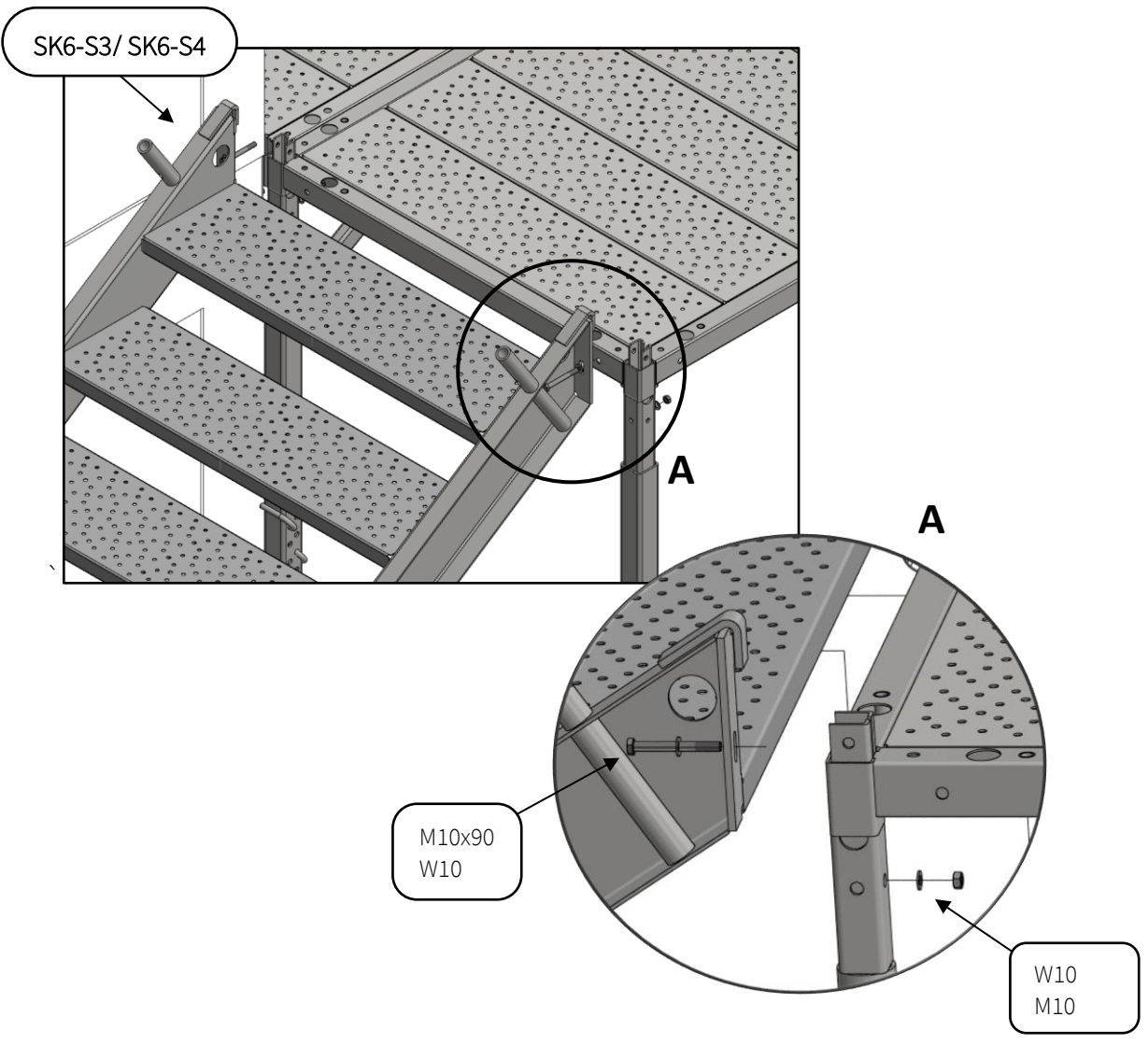
Scheme of the assembly of the stairs. The assembly of SK6-Z1 and SK6-Z2 elements depends on the height of the containers.



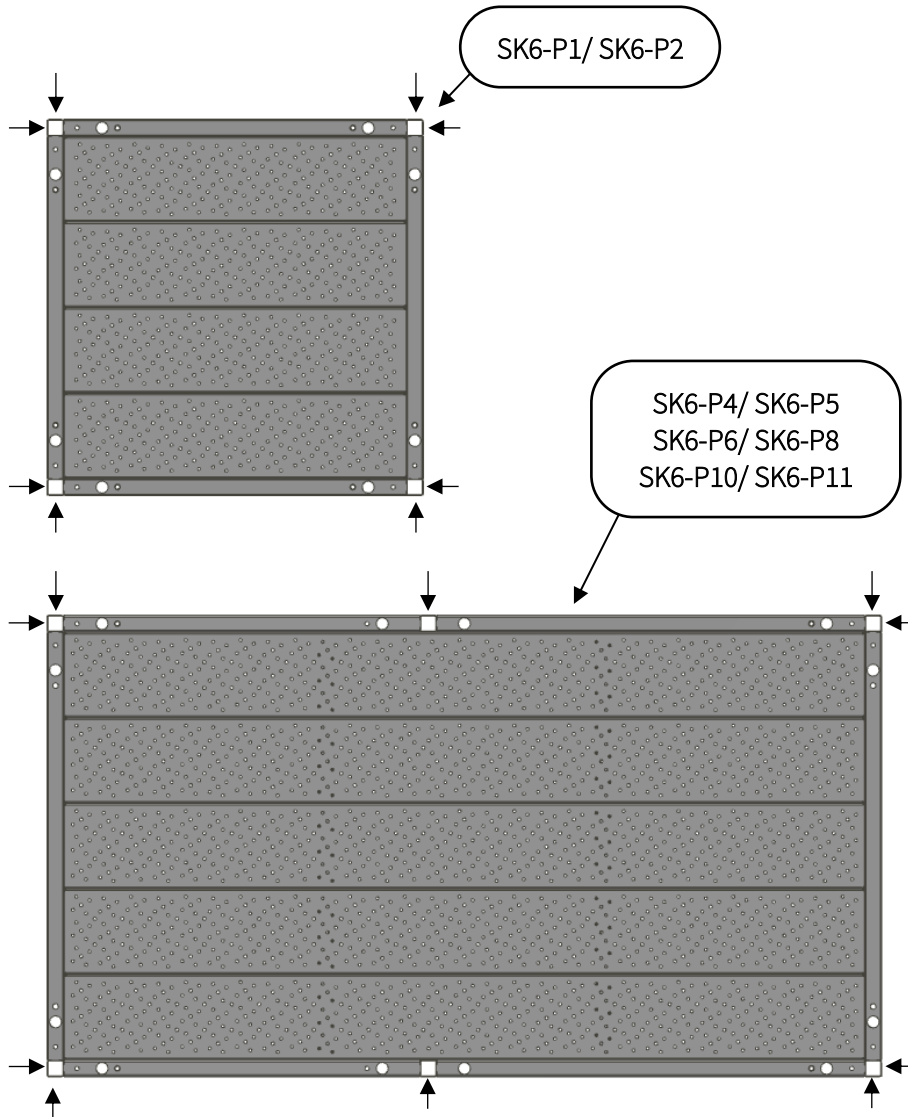
The height of the stairs should be adjusted to the height of the container as presented below.



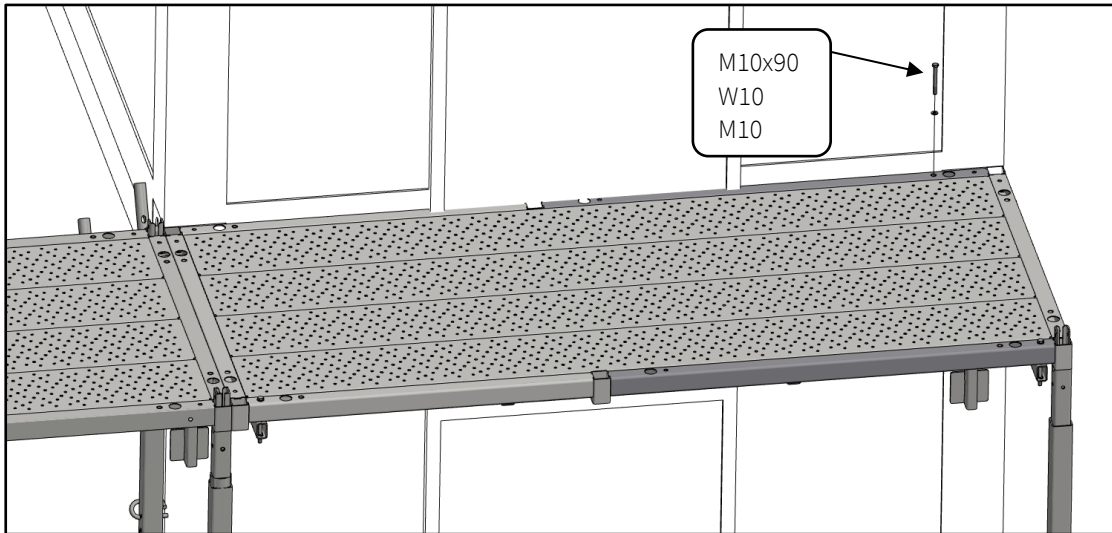
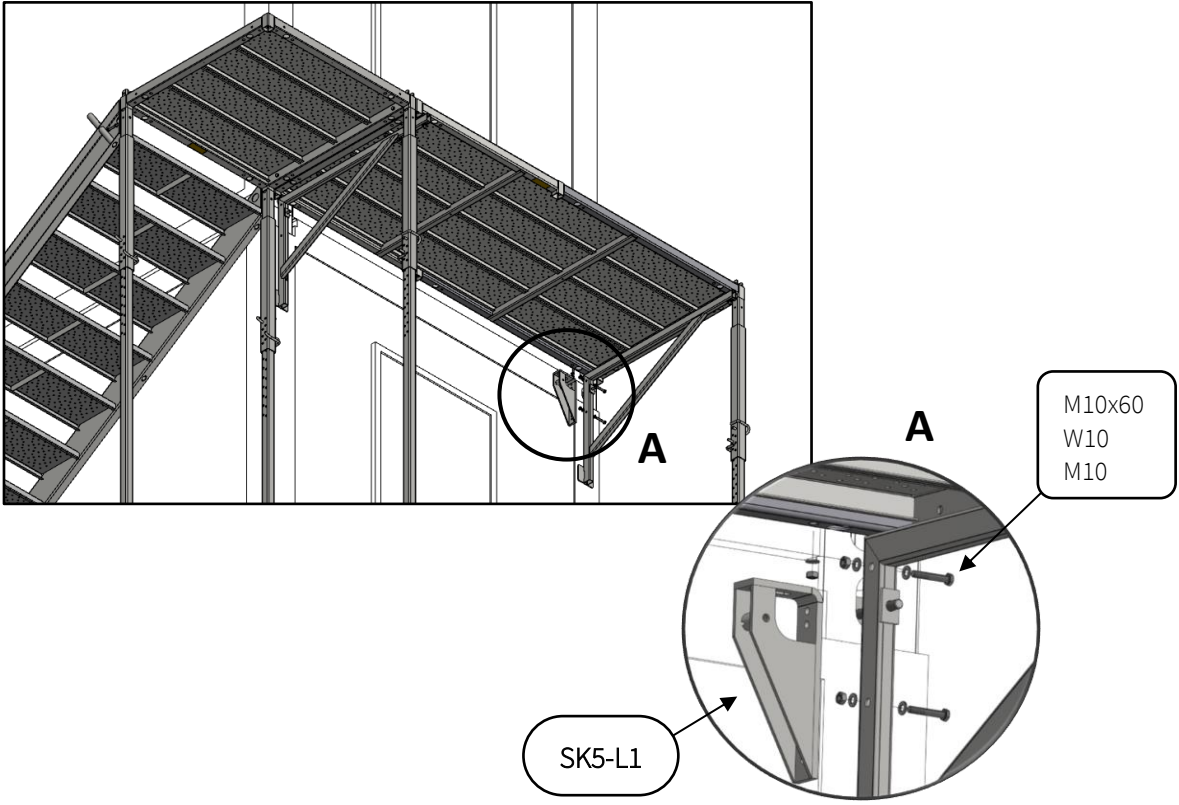
The stairs have hooks that facilitate assembly, they should be hung on the platform sockets and then screwed with a set of bolts, washers, nuts.



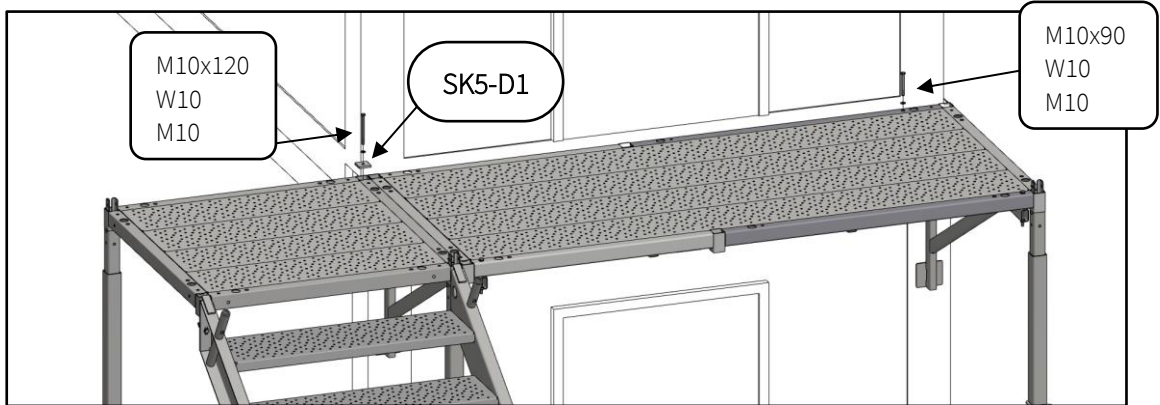
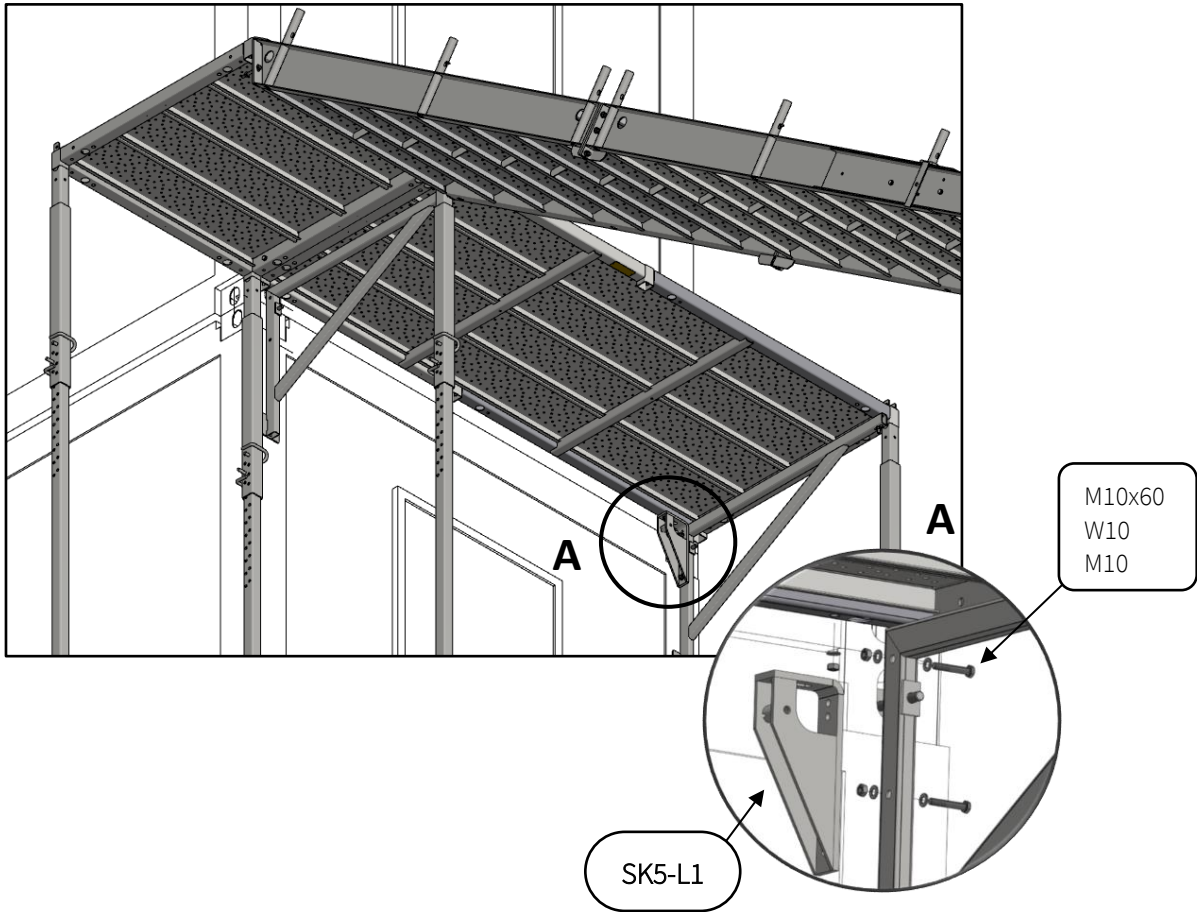
For the 1100x1100 and 1200x1200 platforms, the stairs can be assembled on four sides, depending on the needs. For platforms with a length of 2440 and 1690, the stairs should be assembled on the short edge or in the sockets on the long edges.



6.5. L1 CONNECTOR ASSEMBLY

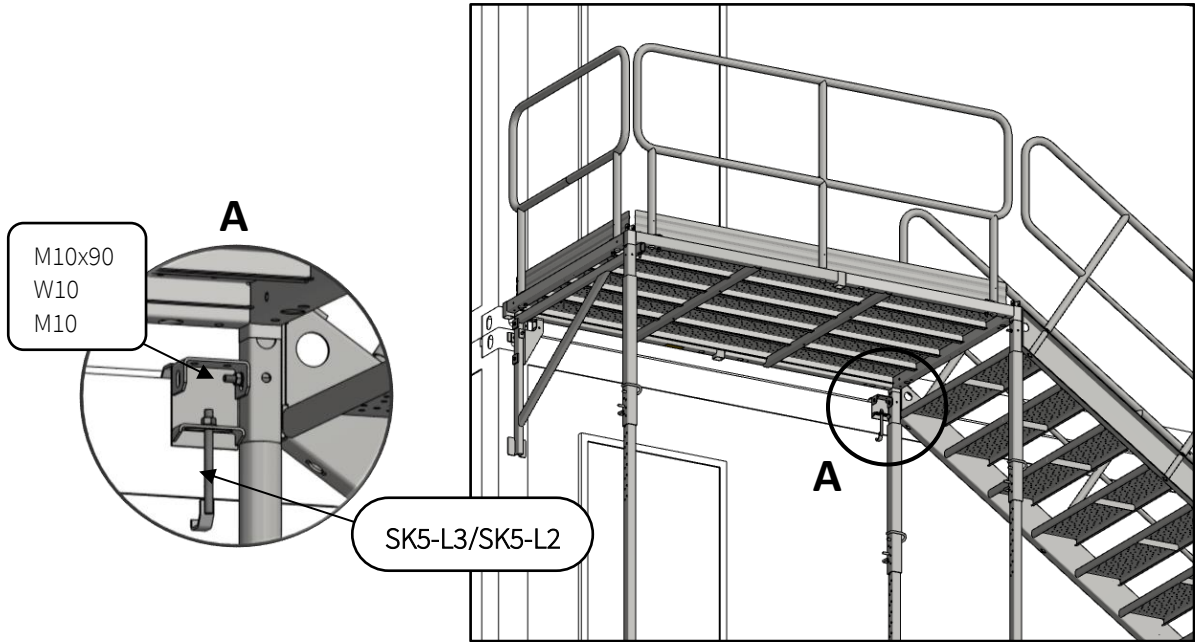


4.5. L1 CONNECTOR ASSEMBLY

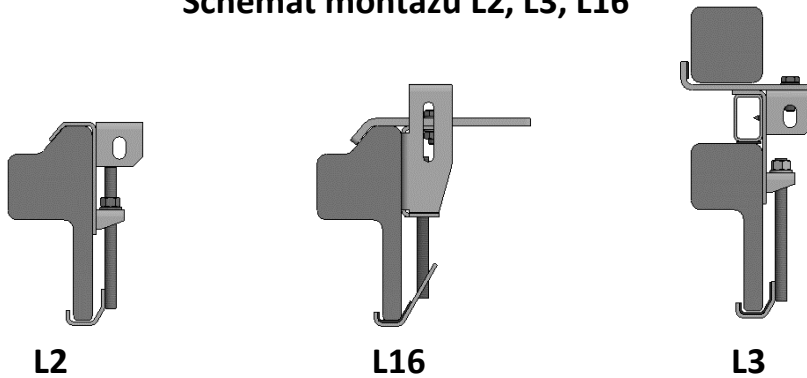


**6.6. L2/L3 CONNECTOR ASSEMBLY**

The L2/L3 connector is assembled on the container cornice and screwed to the structure of the container stairs, it prevents the platform from moving away from the container when the platform is assembled on one support and two posts along the container.



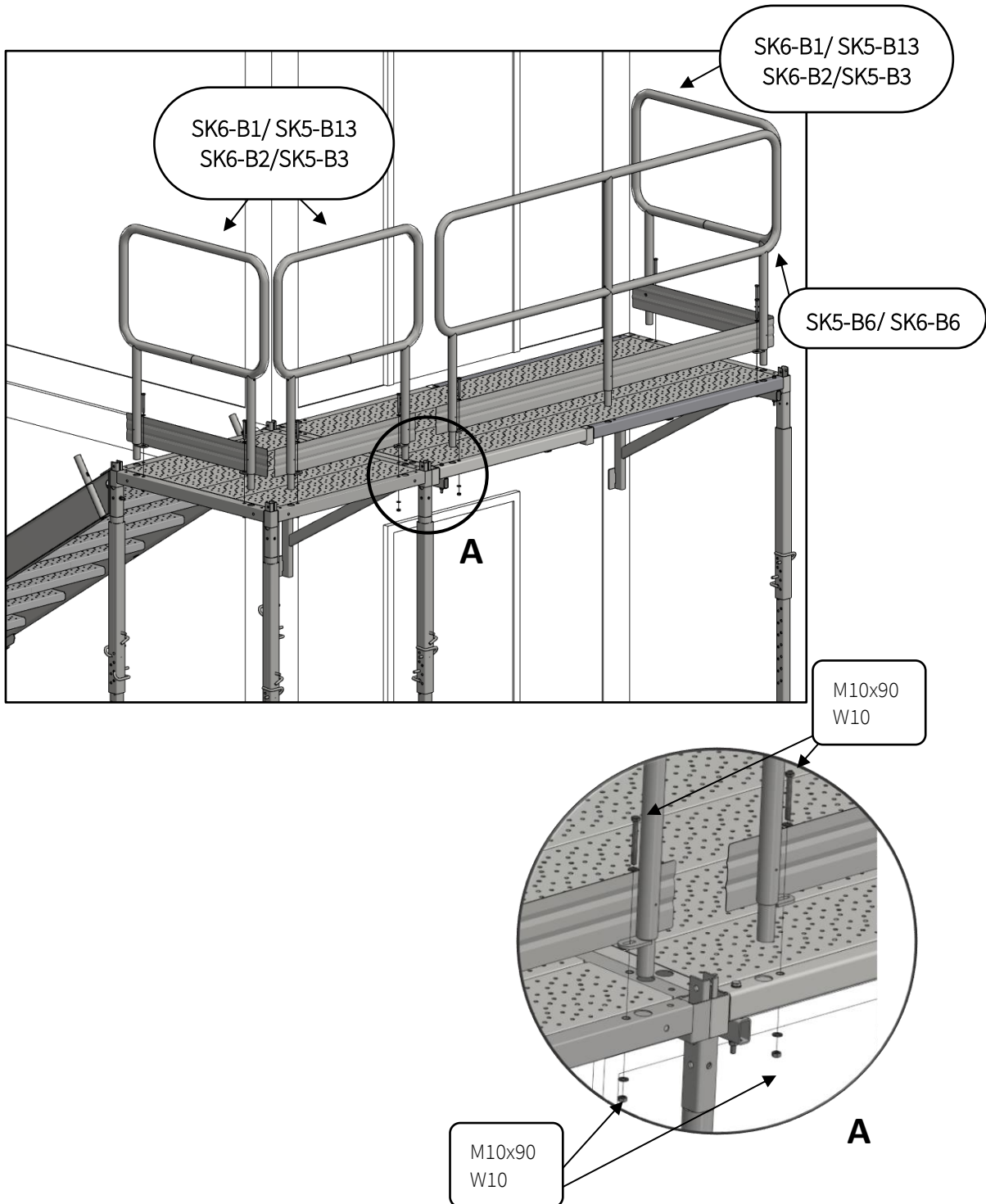
**Schemat montażu L2, L3, L16**



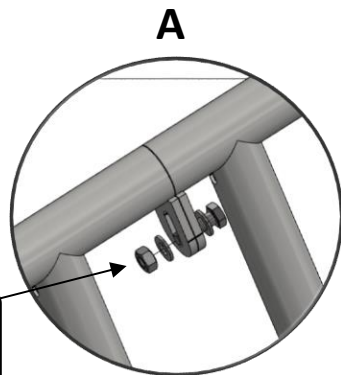
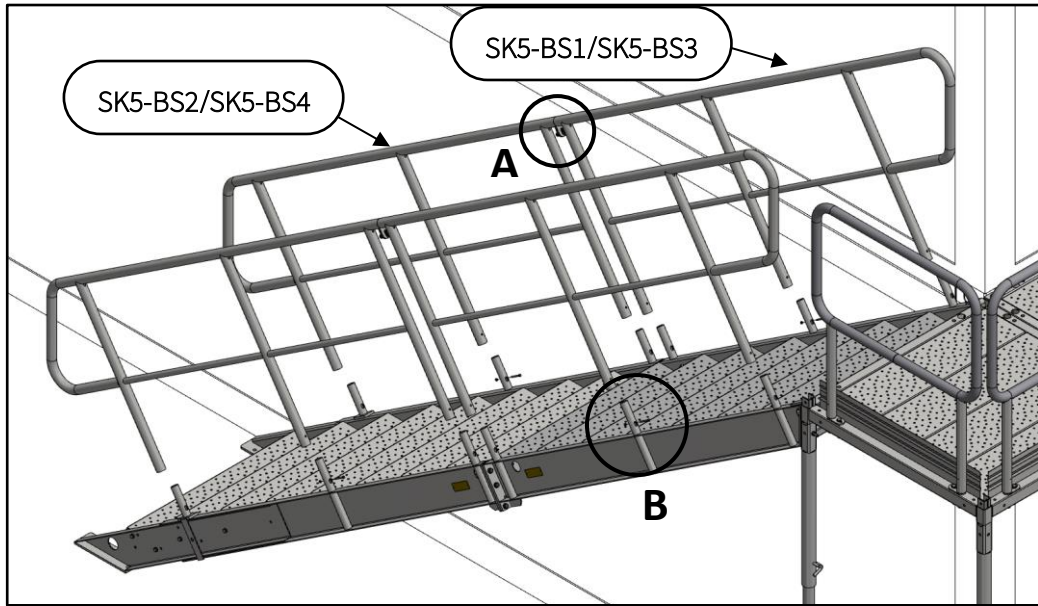


**6.7. RAILING ASSEMBLY**

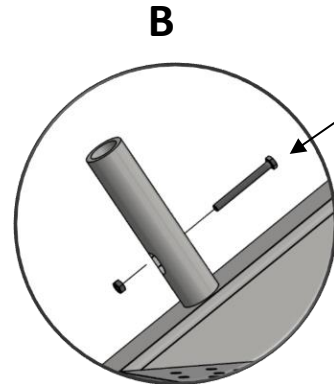
The railings are assembled by placing the railing in the platform socket, then screwing the railing to the platform with a set of screws, washers, nuts.



The stair railing is assembled by placing railing in the stair spindles, and then securing it with a bolt and nut set.

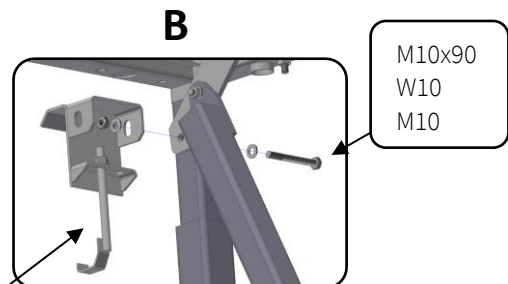
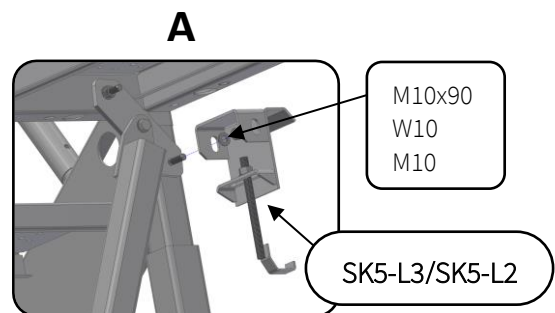
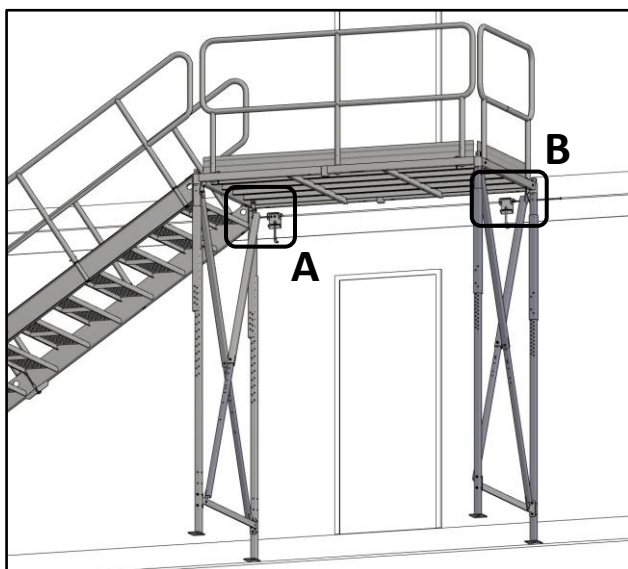
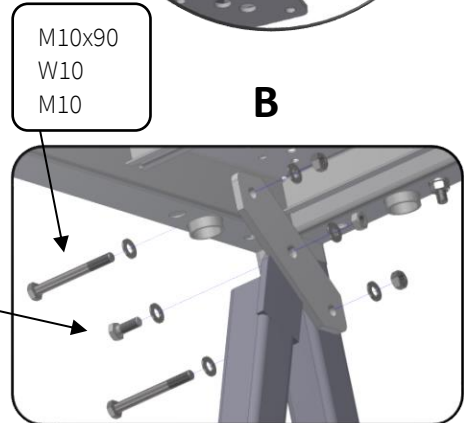
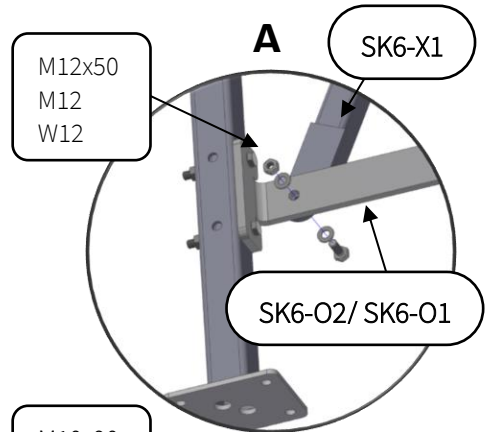
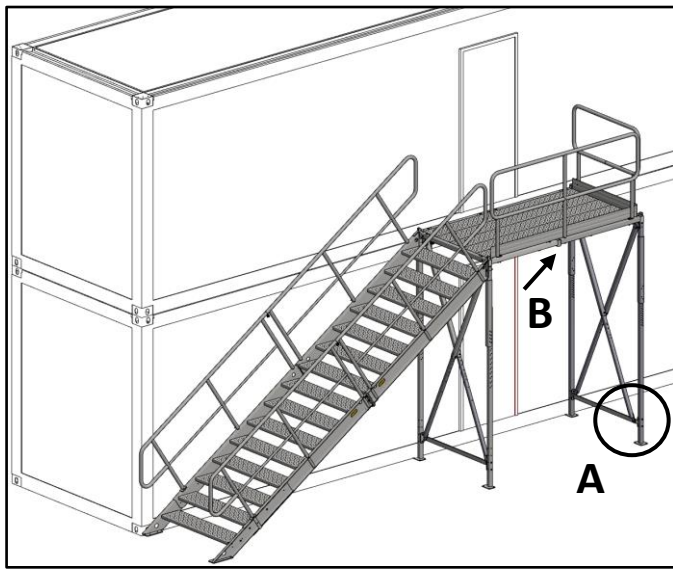


M10x30  
M10  
W10



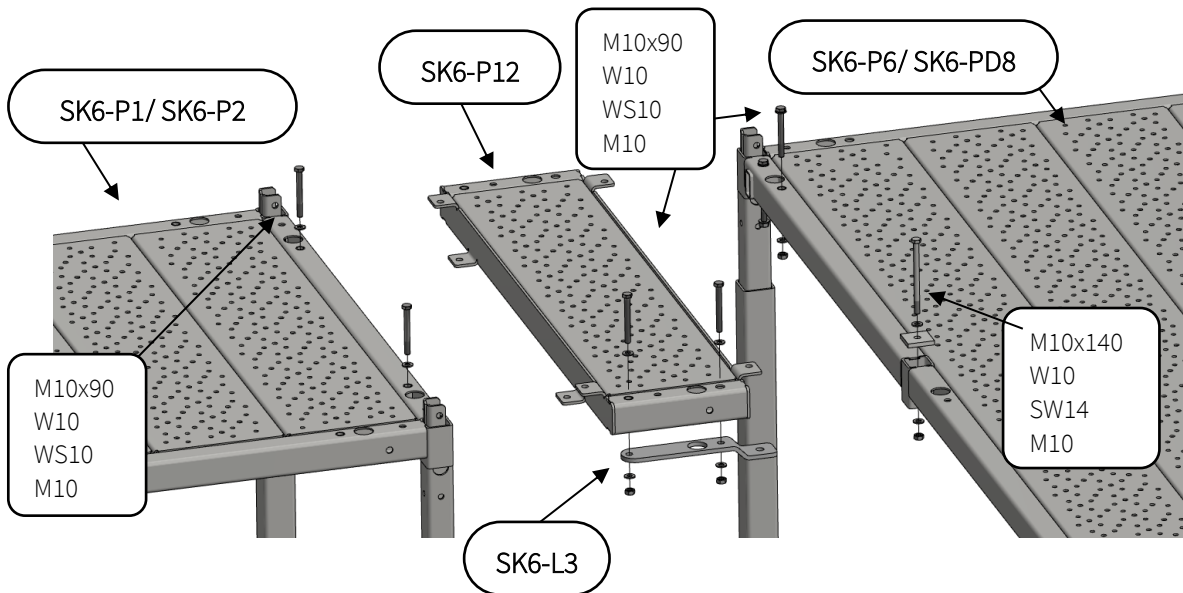
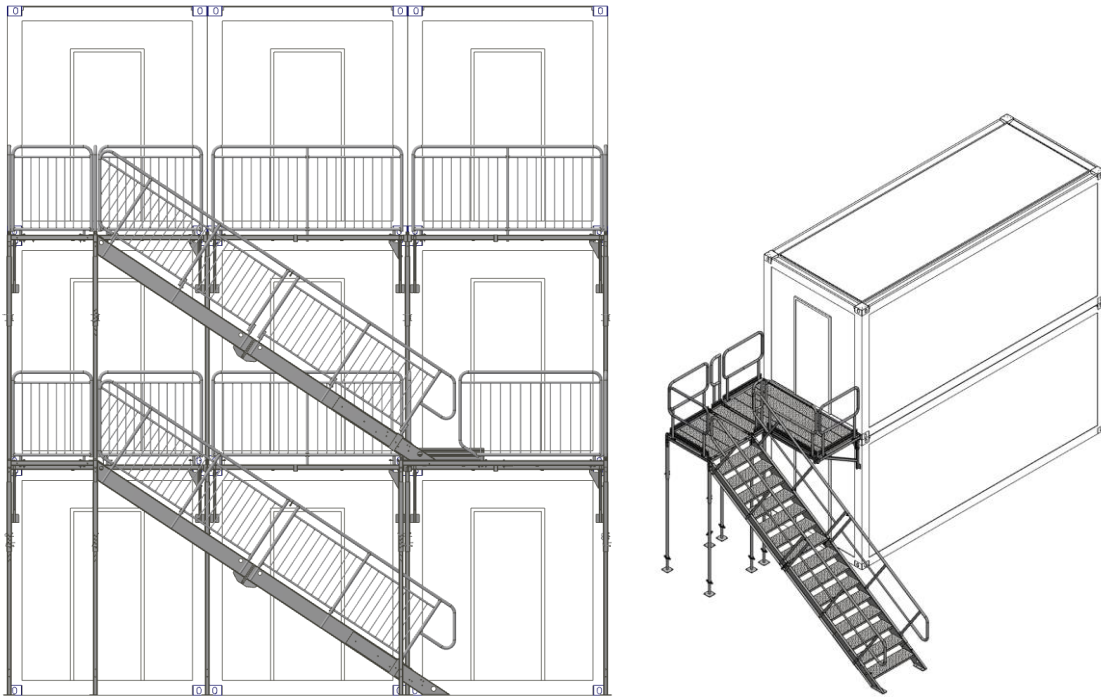
M8x60  
M8

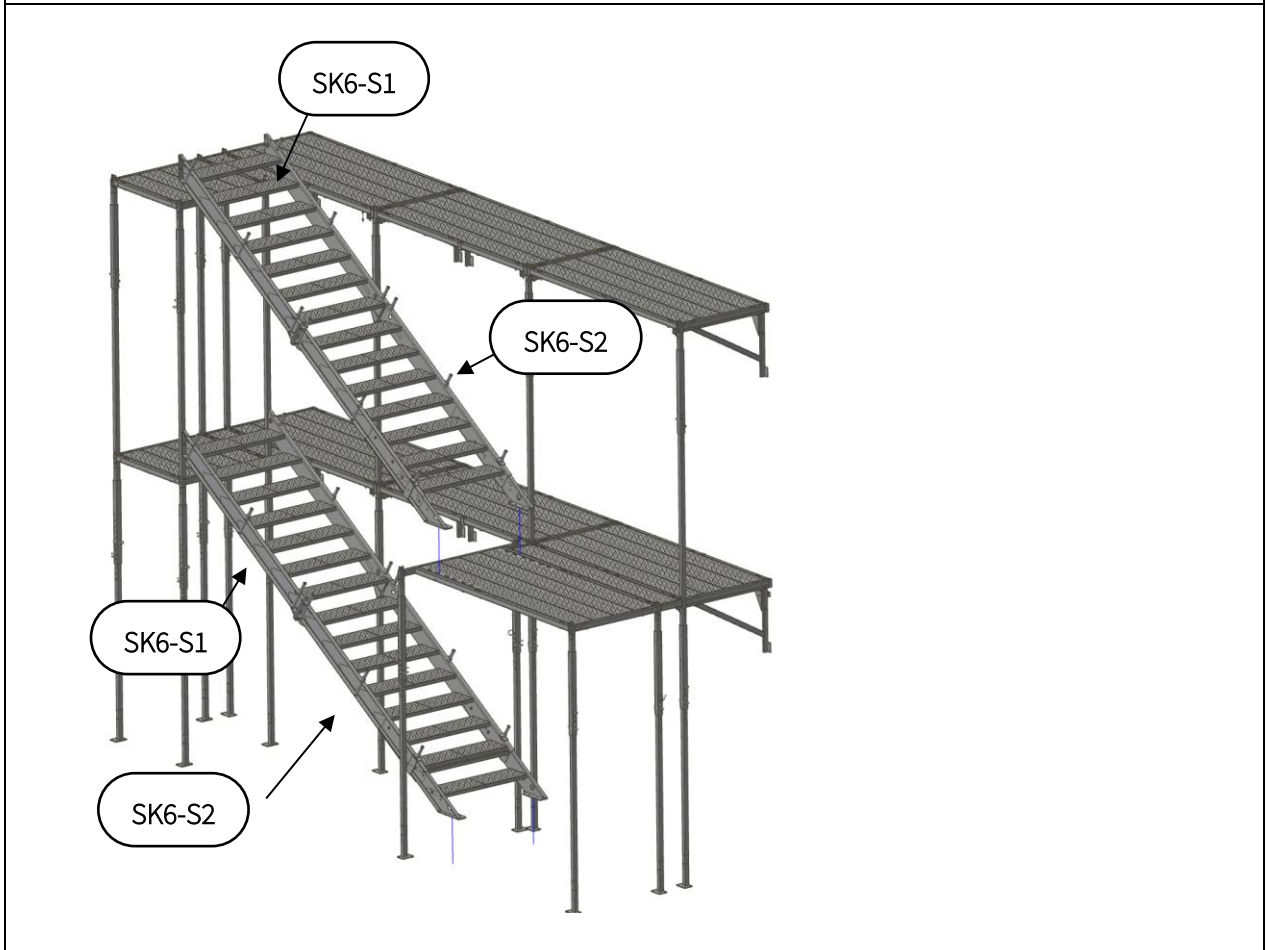
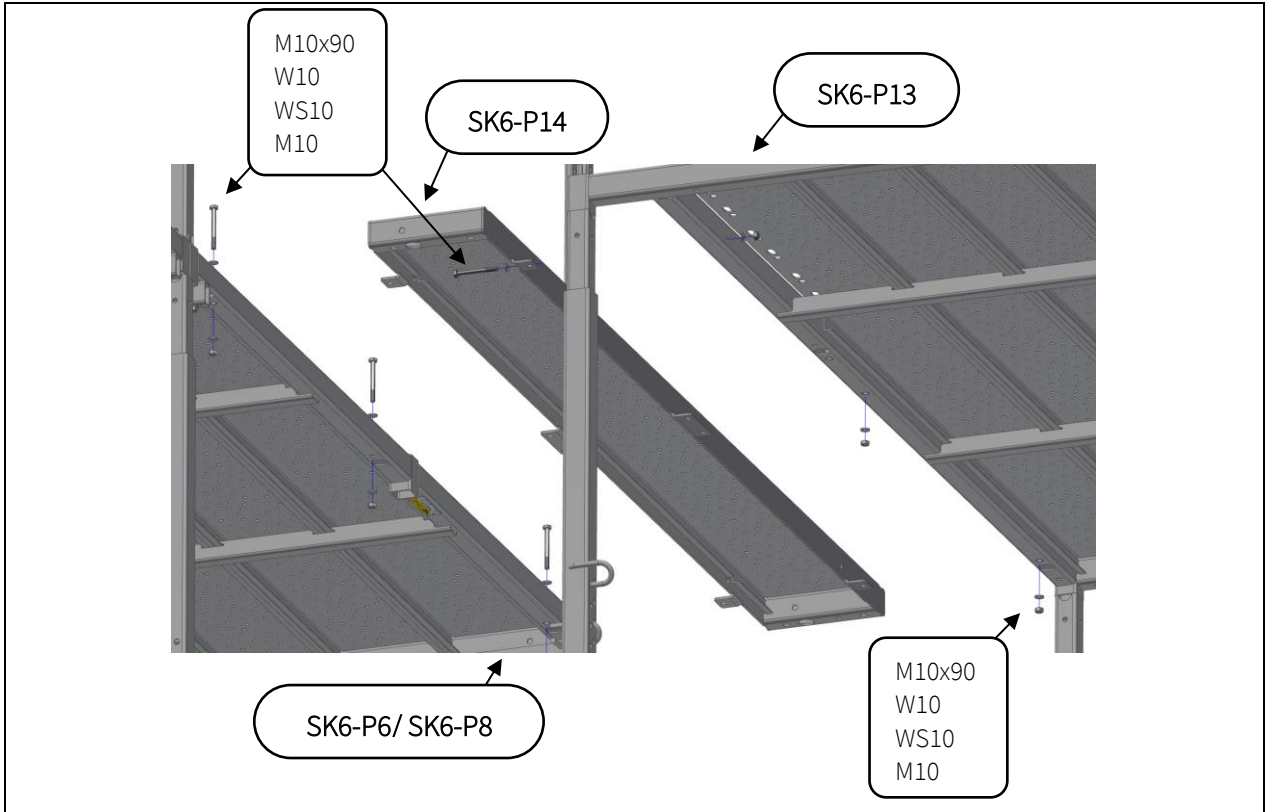
When the platforms are assembled only on posts, it is necessary to assemble the braces and screw them to the container frame with L2 or L3 connectors.

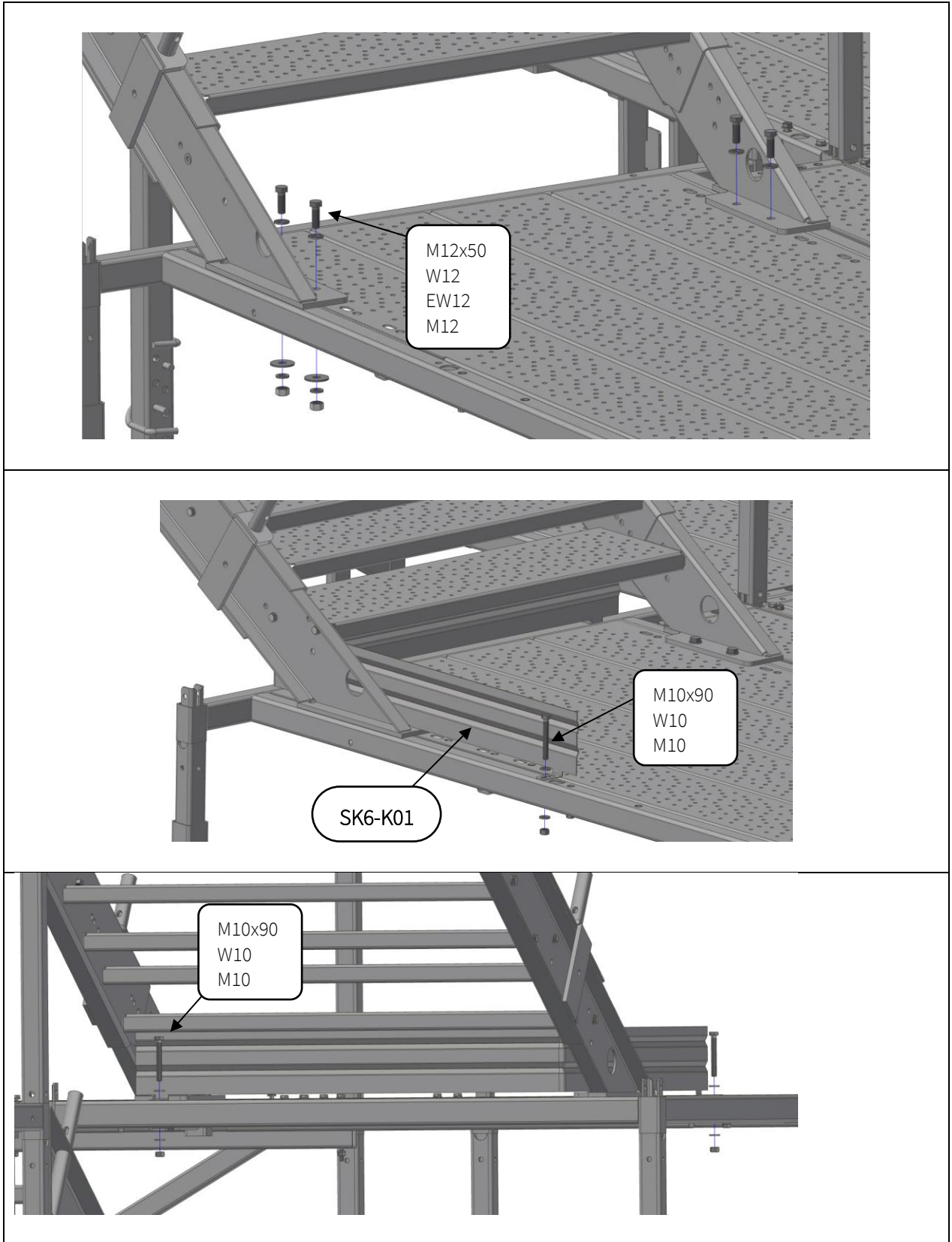


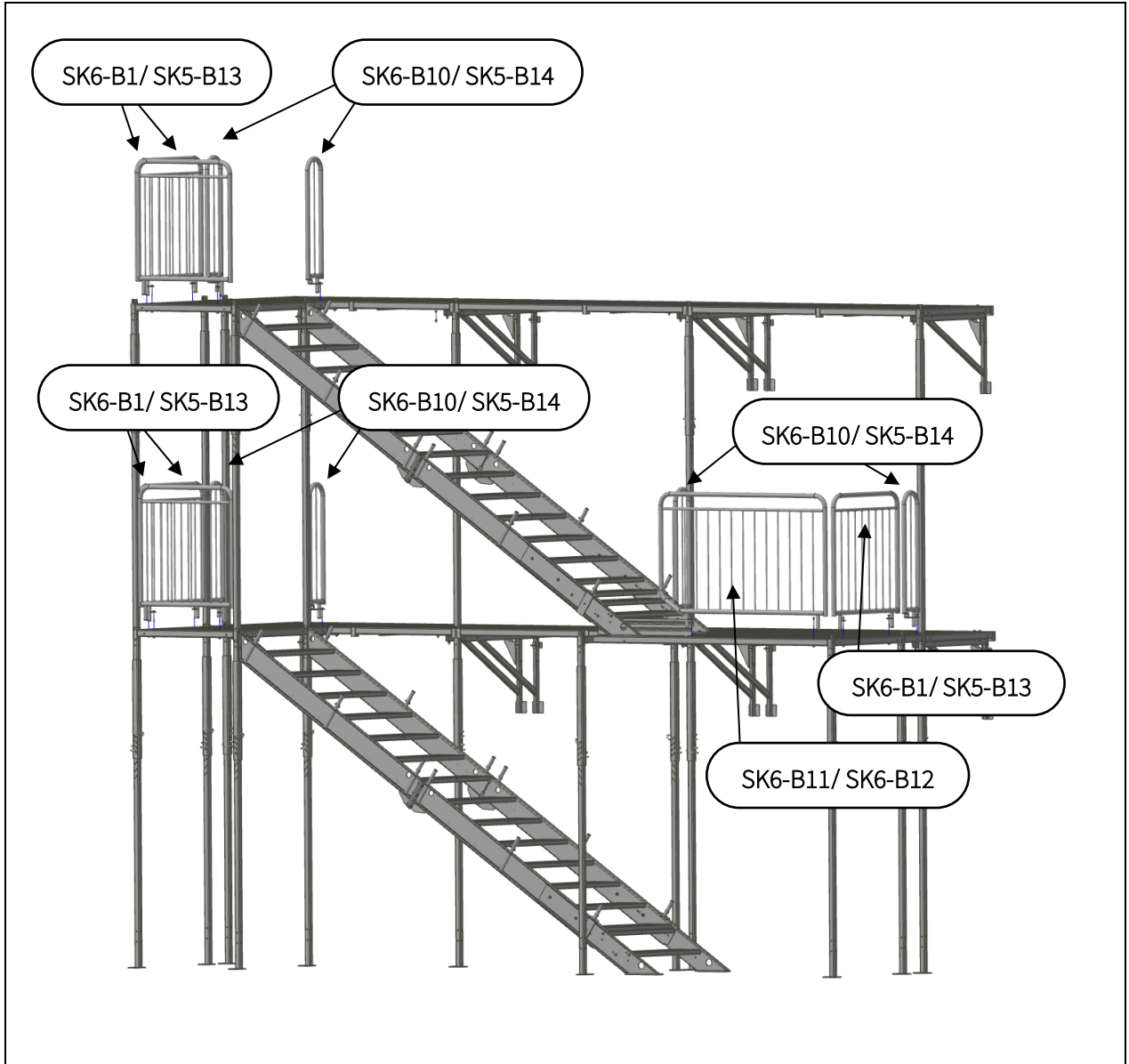
SK5-L3/SK5-L2

When assembling the configuration with the entry to the second level, the minimum required number of office containers is 9.









When assembling the SK6-P9 platform, the SK5-L17 connector should be used additionally.

