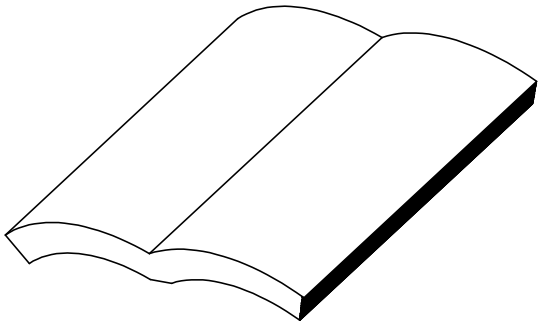
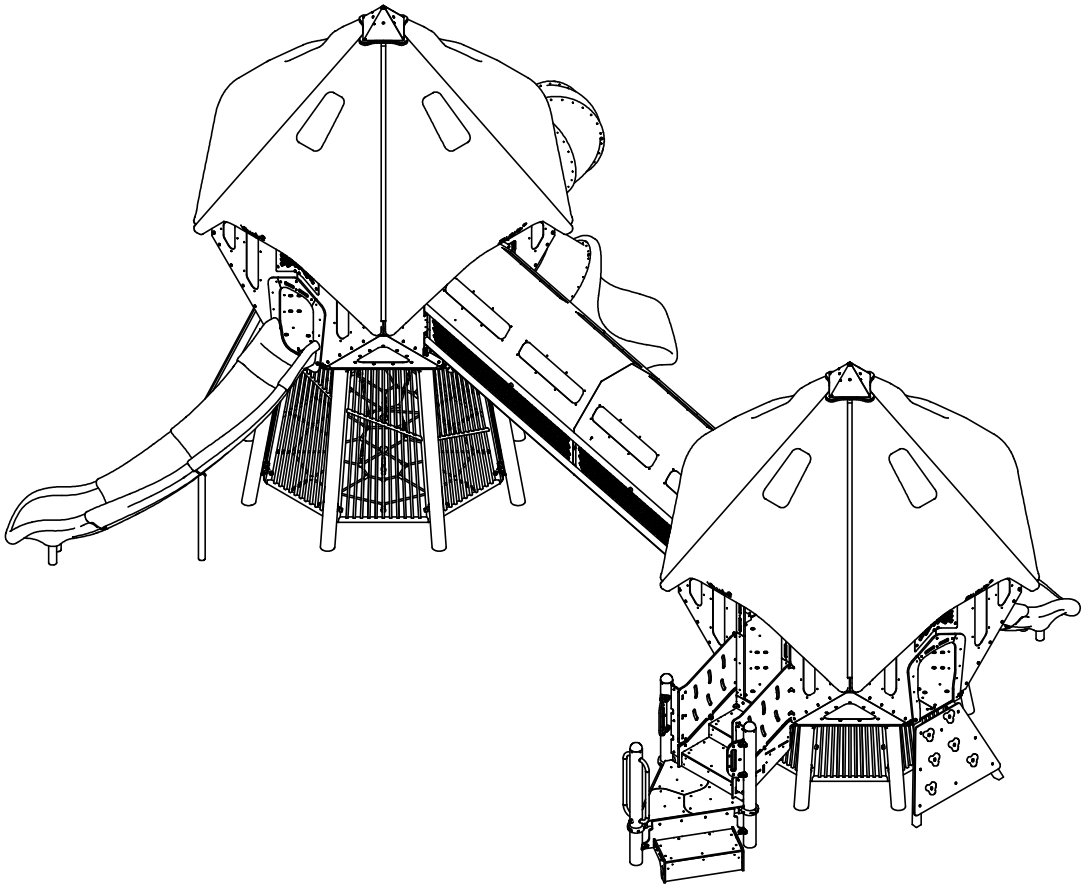
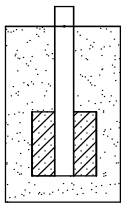
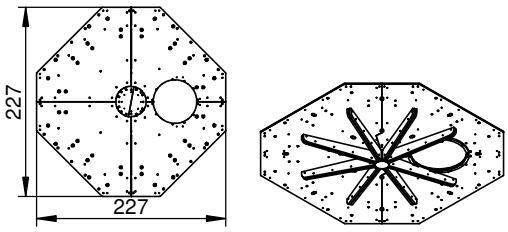
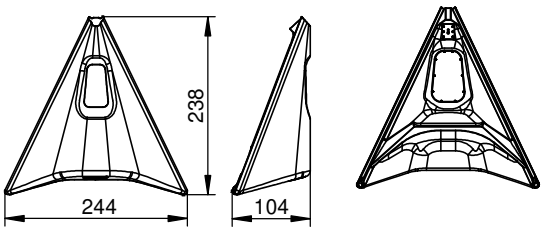
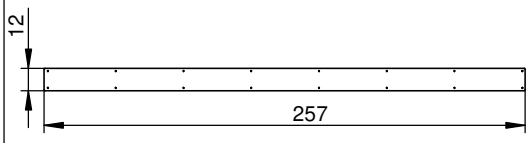
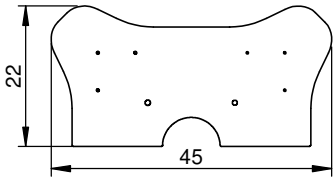
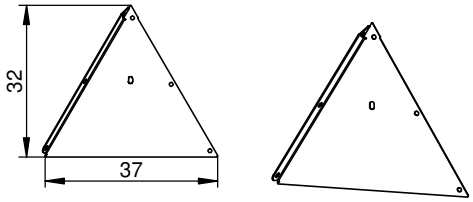
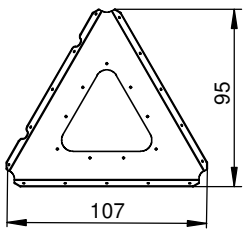


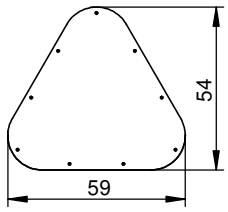
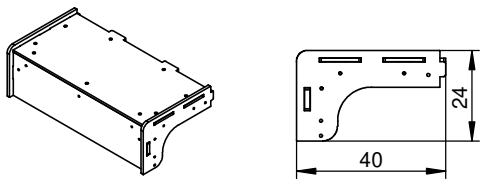
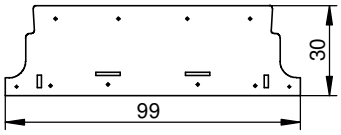
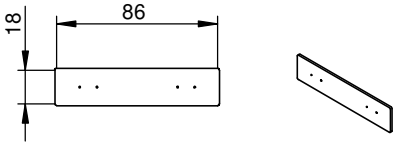
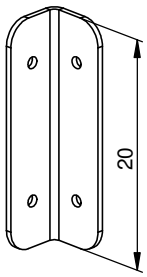
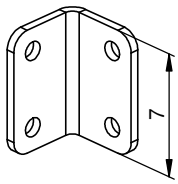
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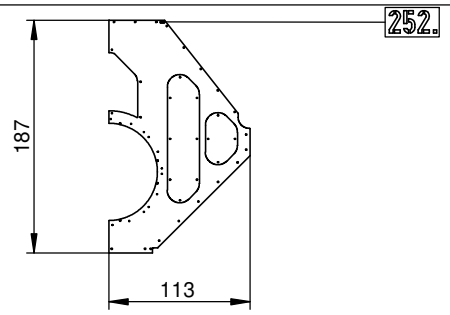
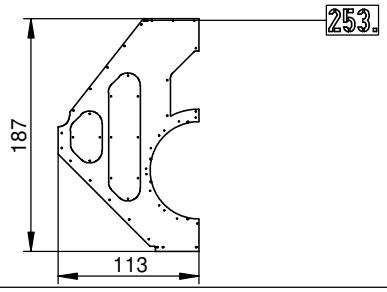
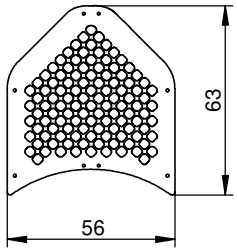
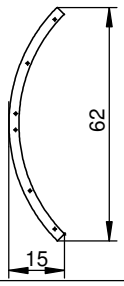
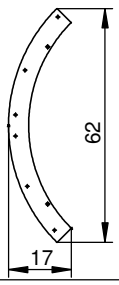
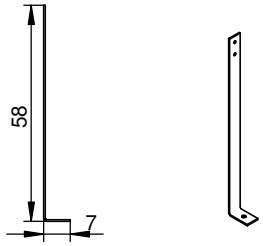


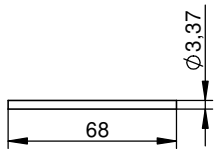
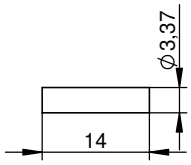
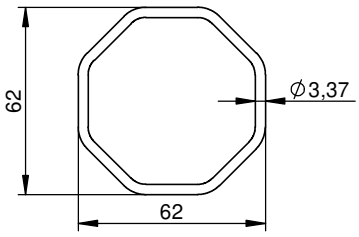
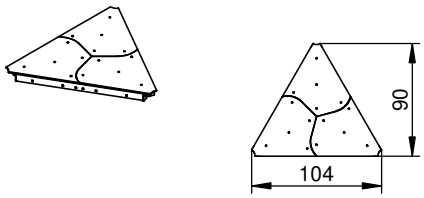
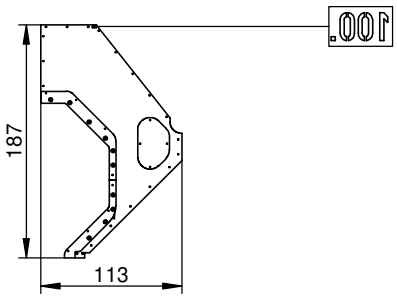
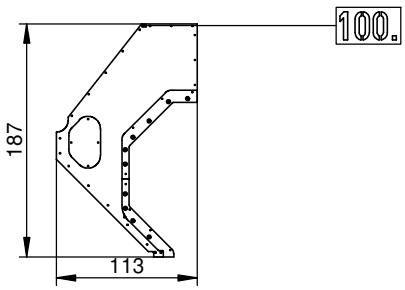


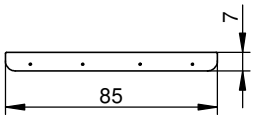
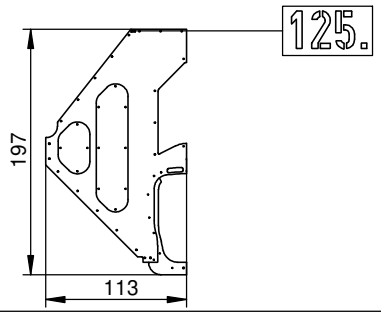
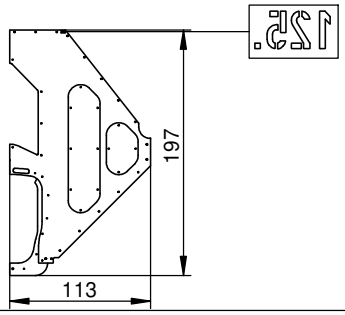
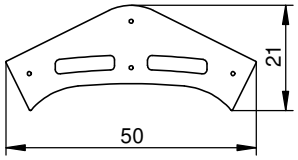
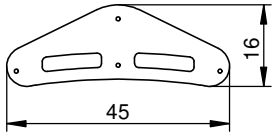
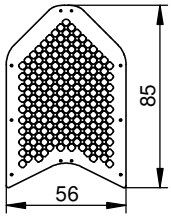
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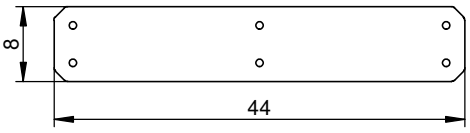
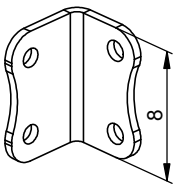
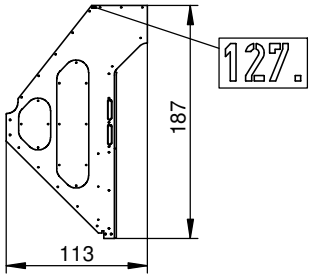
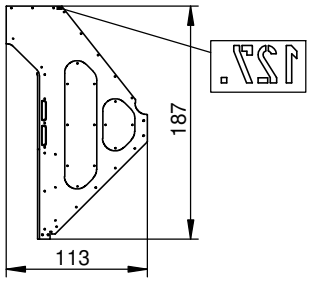
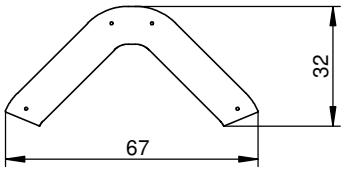
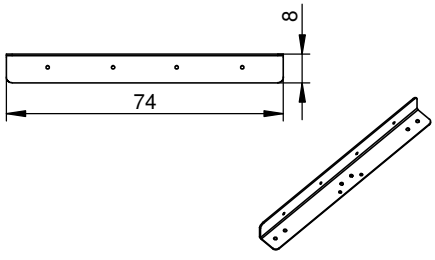
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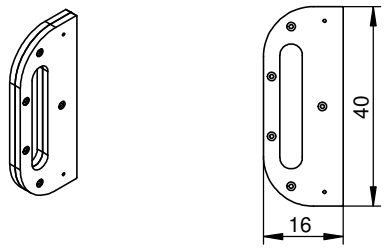
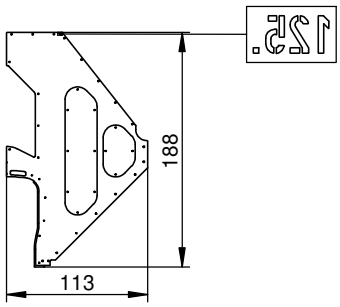
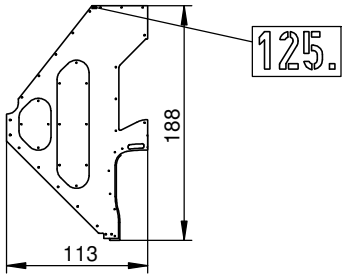
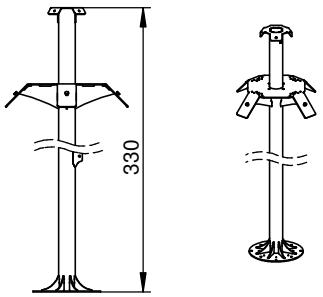
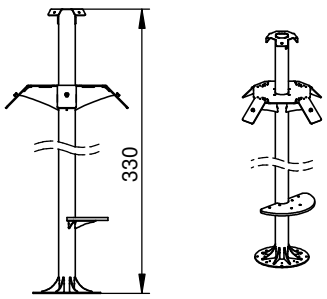
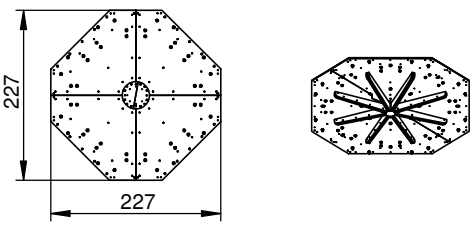
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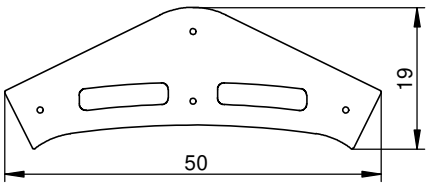
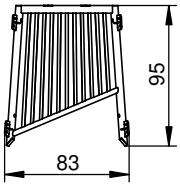
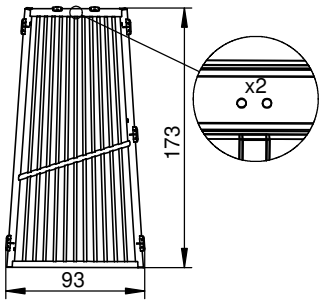
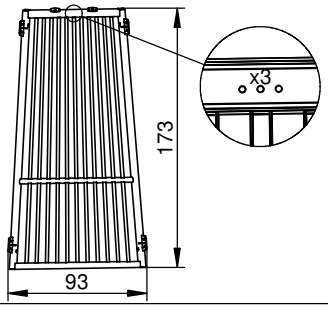
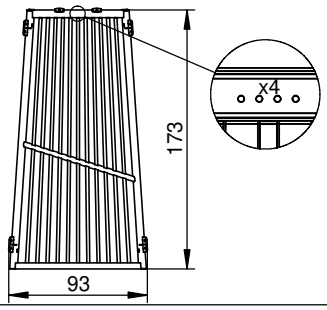
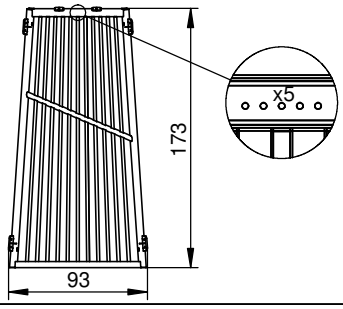
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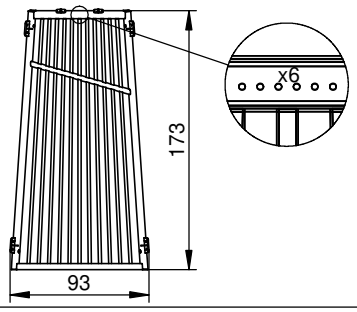
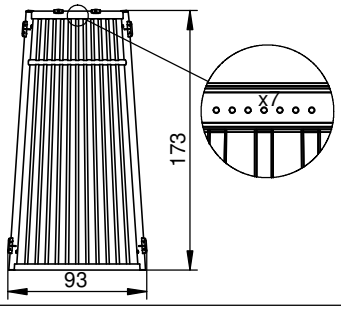
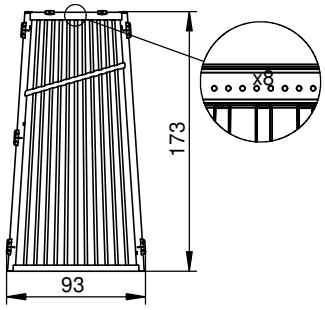
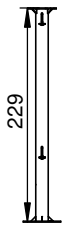
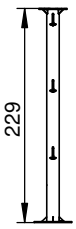
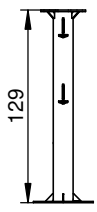
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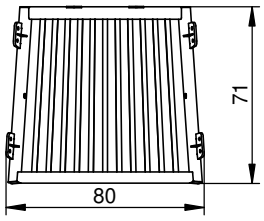
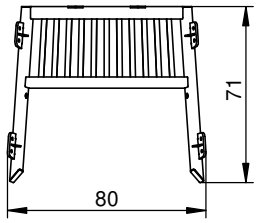
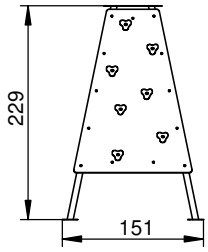
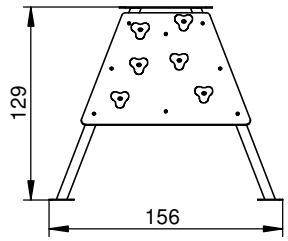
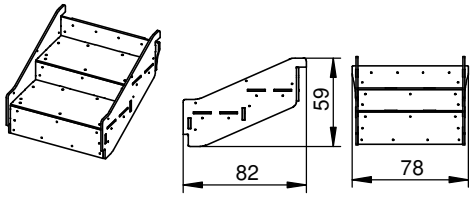
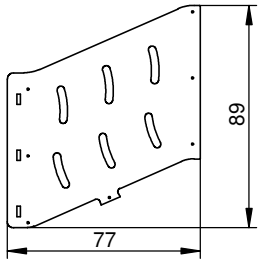
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E26		2
E27		2
E28		2
E29		4
E30		4

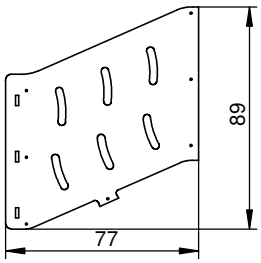
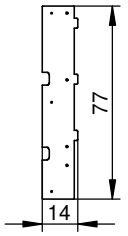
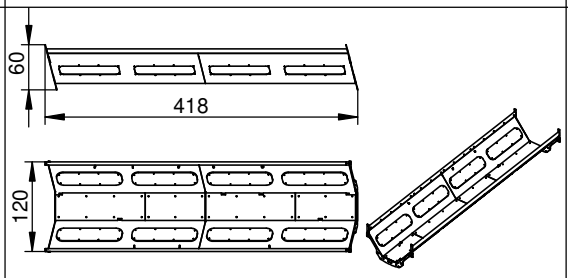
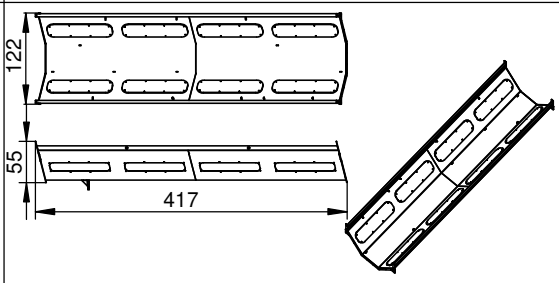
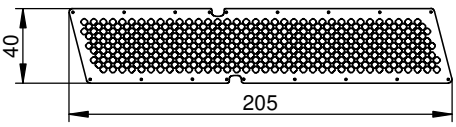
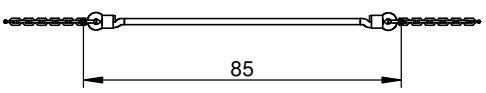
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E32		2
E33		1
E34		1
E35		1
E36		1

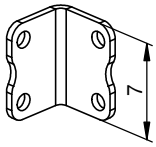
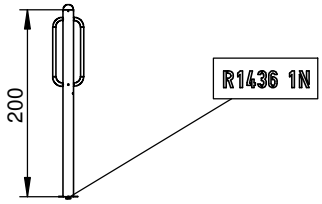
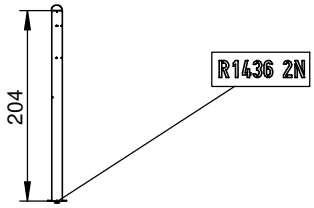
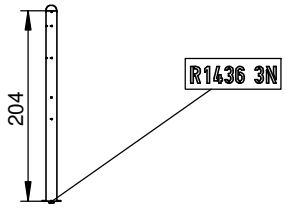
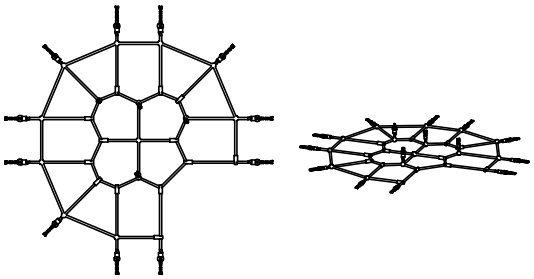
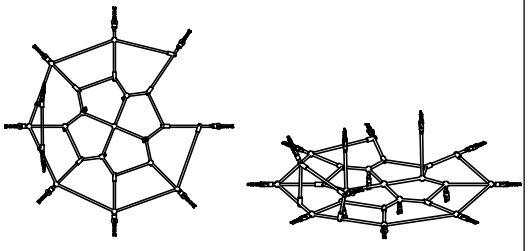
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E37		2
E38		2
E39		2
E40		1
E41		1
E42		1

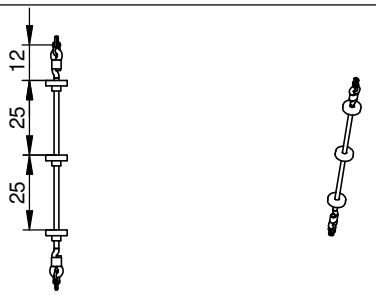
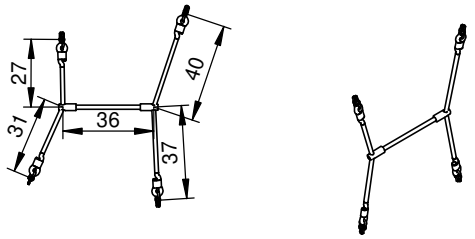
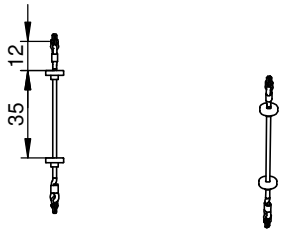
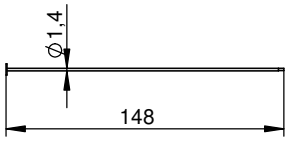
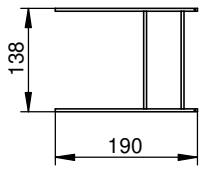
NR	ELEMENT	1436N
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E44		1
E45		1
E46		1
E47		1
E48		1

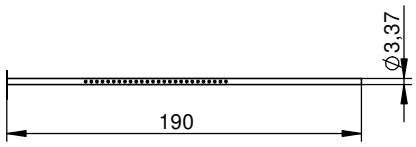
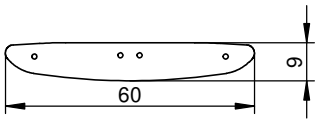
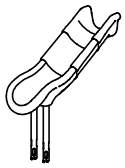
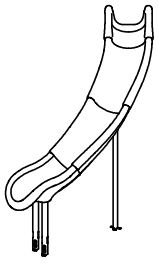
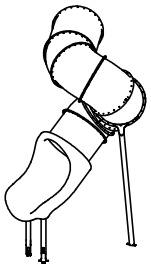
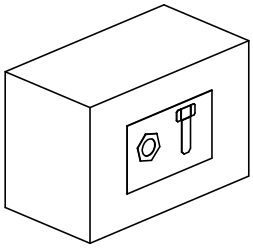
NR	ELEMENT	1436N
E49		1
E50		1
E51		1
E52		6
E53		2
E54		8

NR	ELEMENT	1436N
E55		7
E56		1
E57		1
E58		1
E59		1
E60		1

NR	ELEMENT	1436N
E61		1
E62		2
E63		1
E64		1
E65		4
E66		14

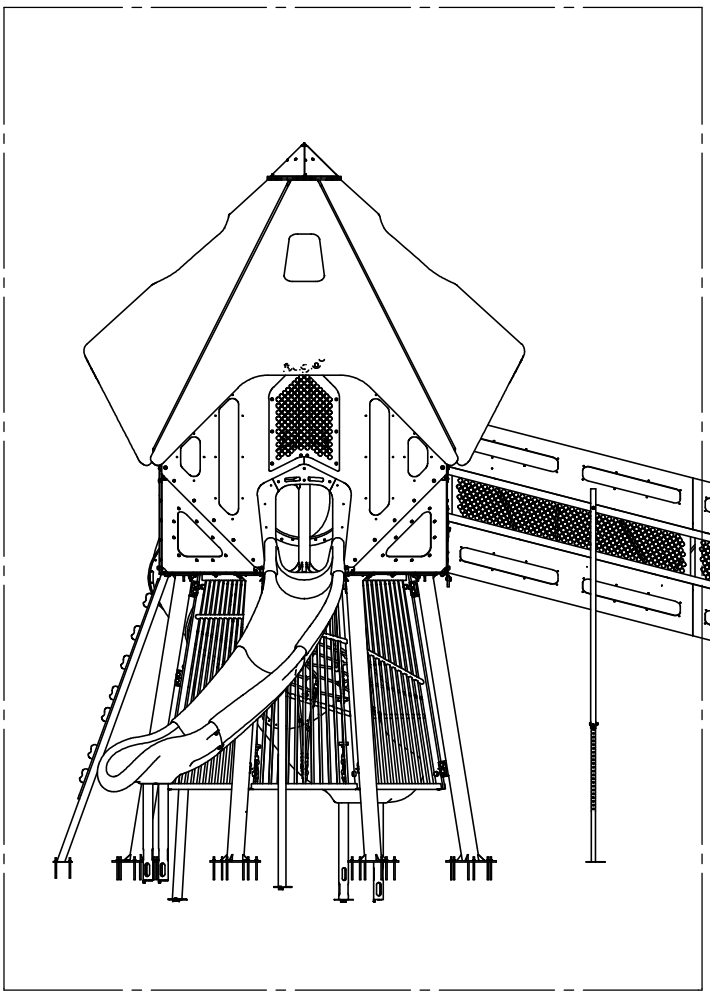
NR	ELEMENT	1436N
E67		2
E68		1
E69		1
E70		1
E71		1
E72		1

NR	ELEMENT	1436N
E73		1
E74		1
E75		1
E76		2
E77		1
E78		1

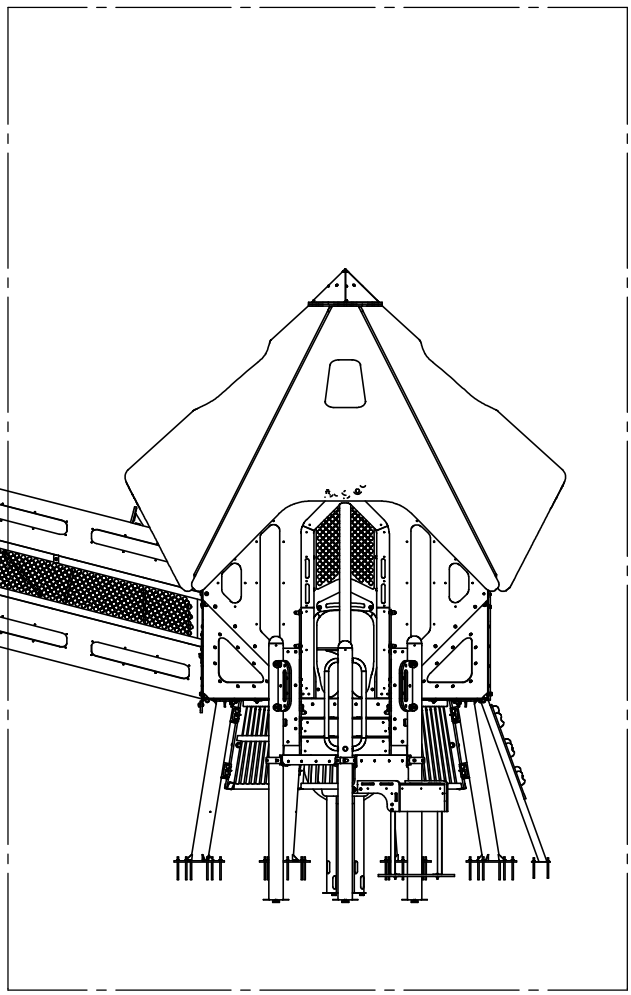
NR	ELEMENT	1436N
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E80		2
E81		1
E82		1
E83		1
E84		1

1436N

A

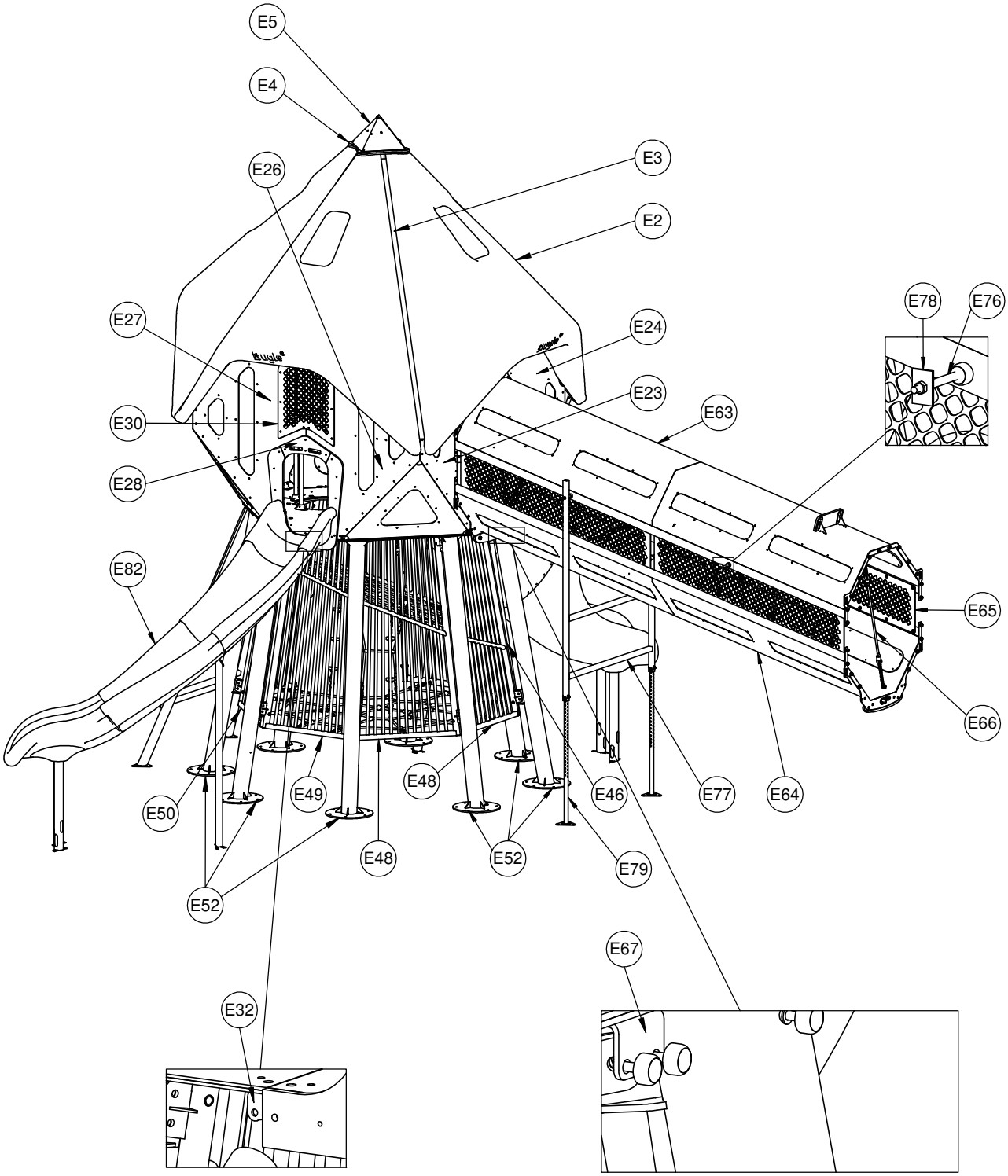


B



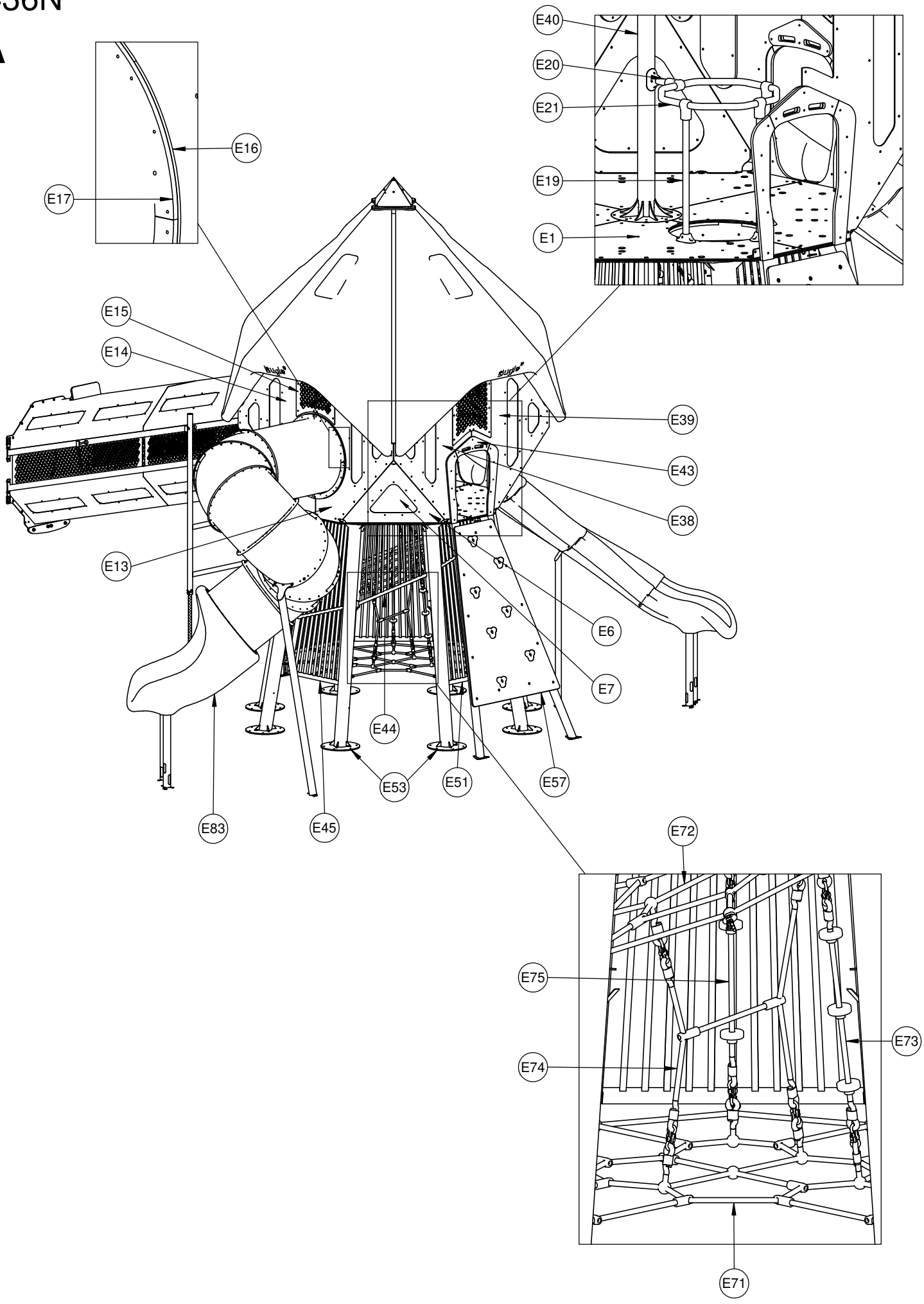
1436N

A


E5
E4
E26
E3
E2
E27
E24
E78
E76
E23
E63
E30
E28
E82
E65
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E48
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E79
E52
E67
E32

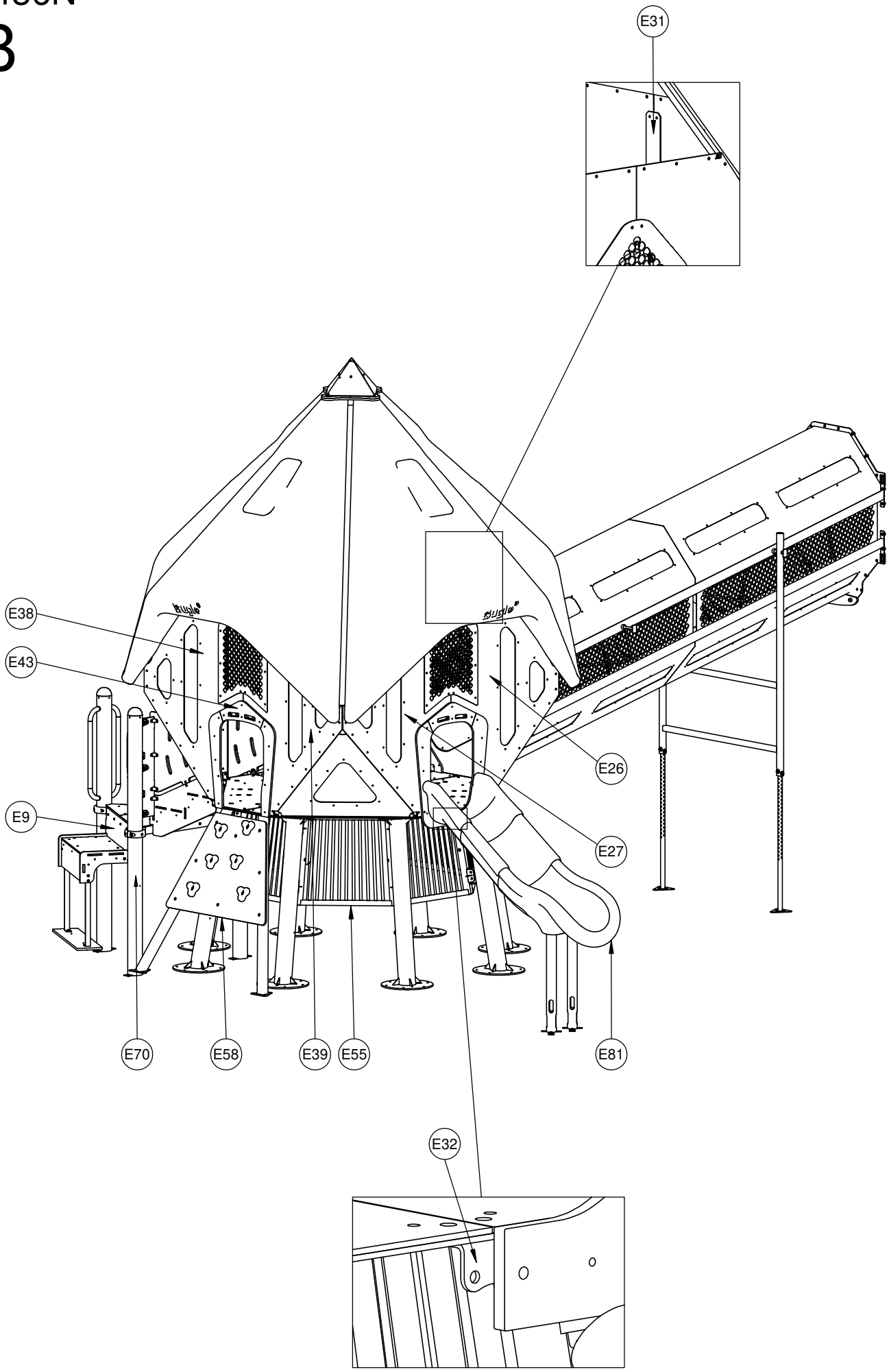
1436N

A


E40
E20
E21
E19
E1
E16
E17
E15
E14
E39
E43
E38
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E6
E7
E44
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E51
E57
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E45
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E75
E73
E74
E71

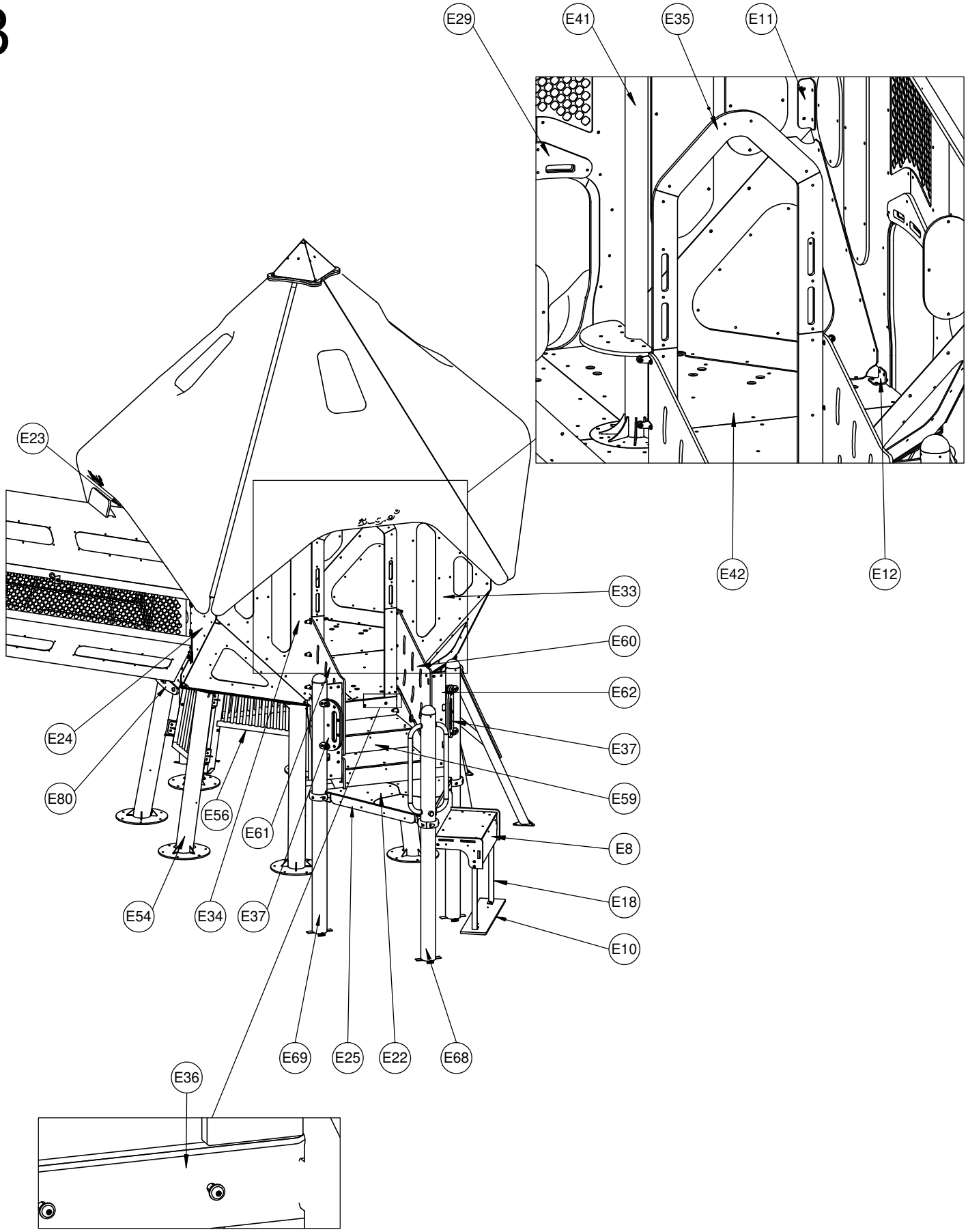
1436N

B

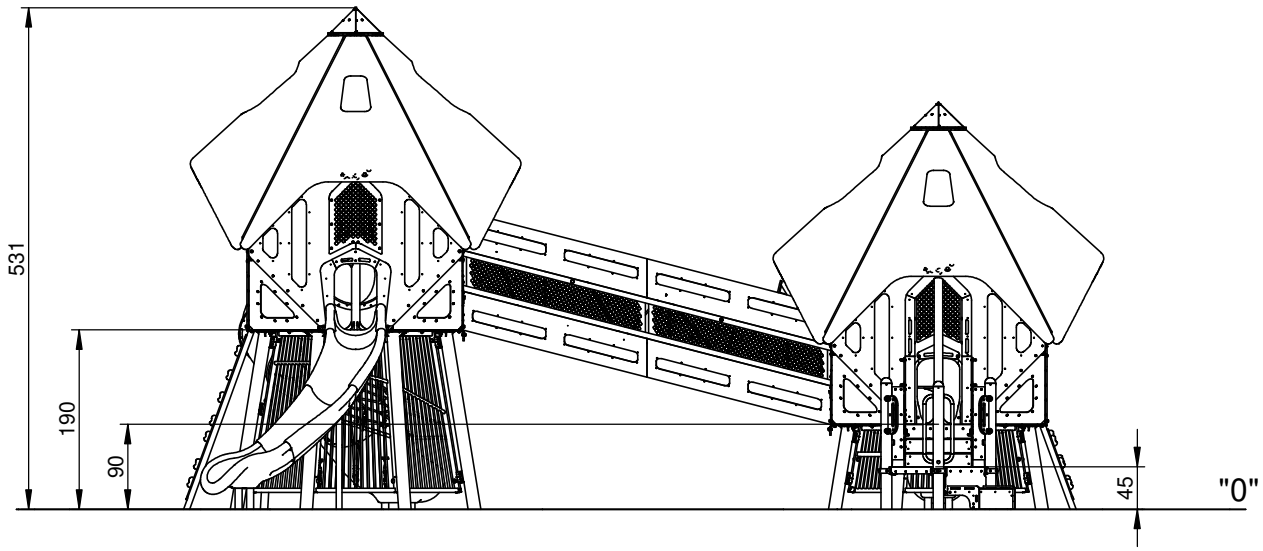


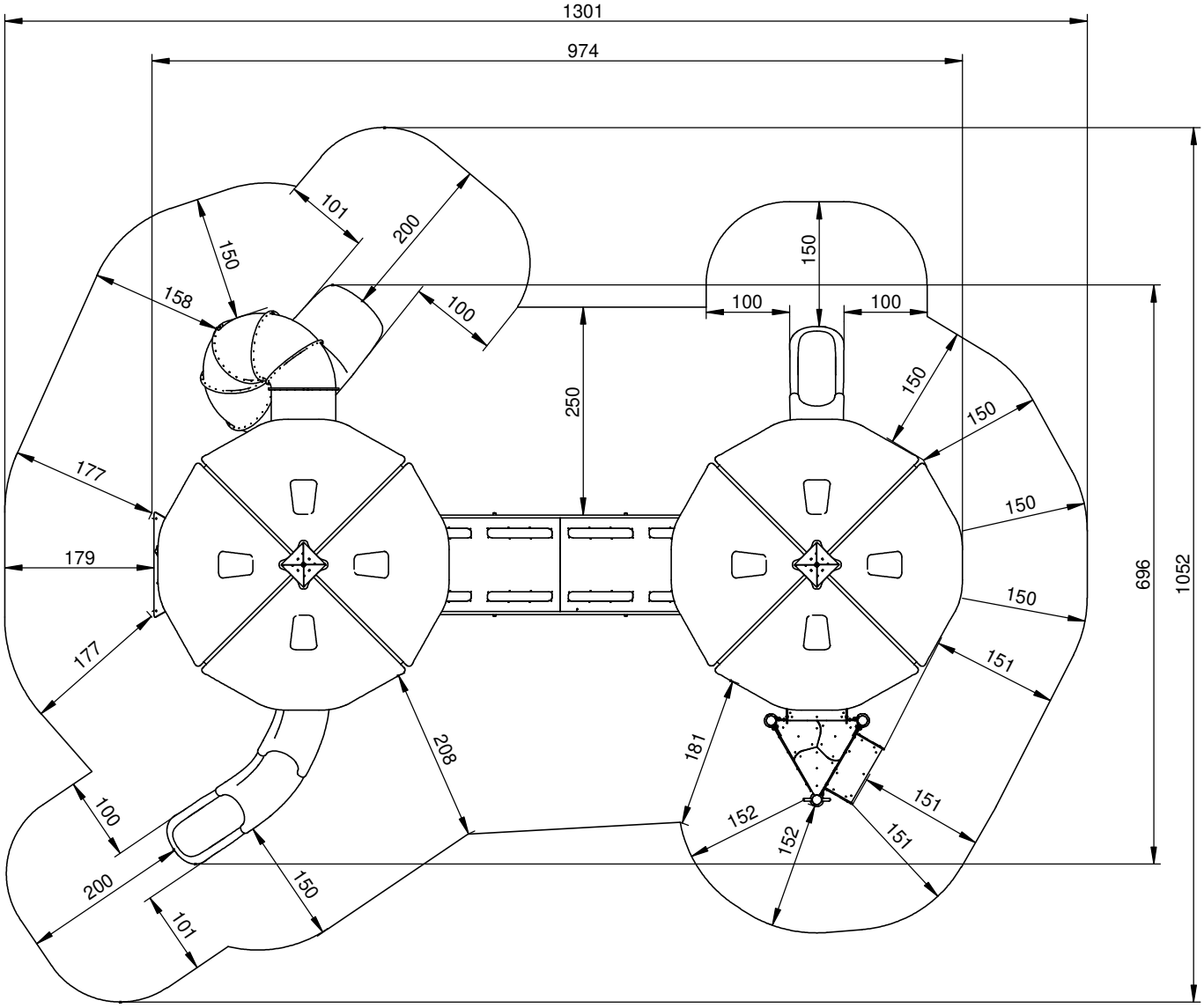
1436N

B

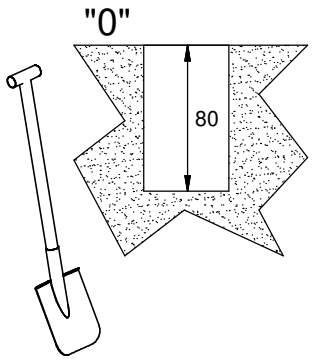

E29
E41
E35
E11
E23
E42
E12
E33
E60
E62
E24
E37
E80
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E25
E22
E68
E36

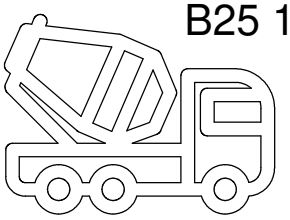
1436N

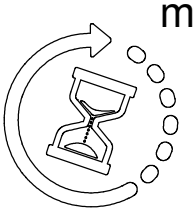

531
190
90
45
"0"

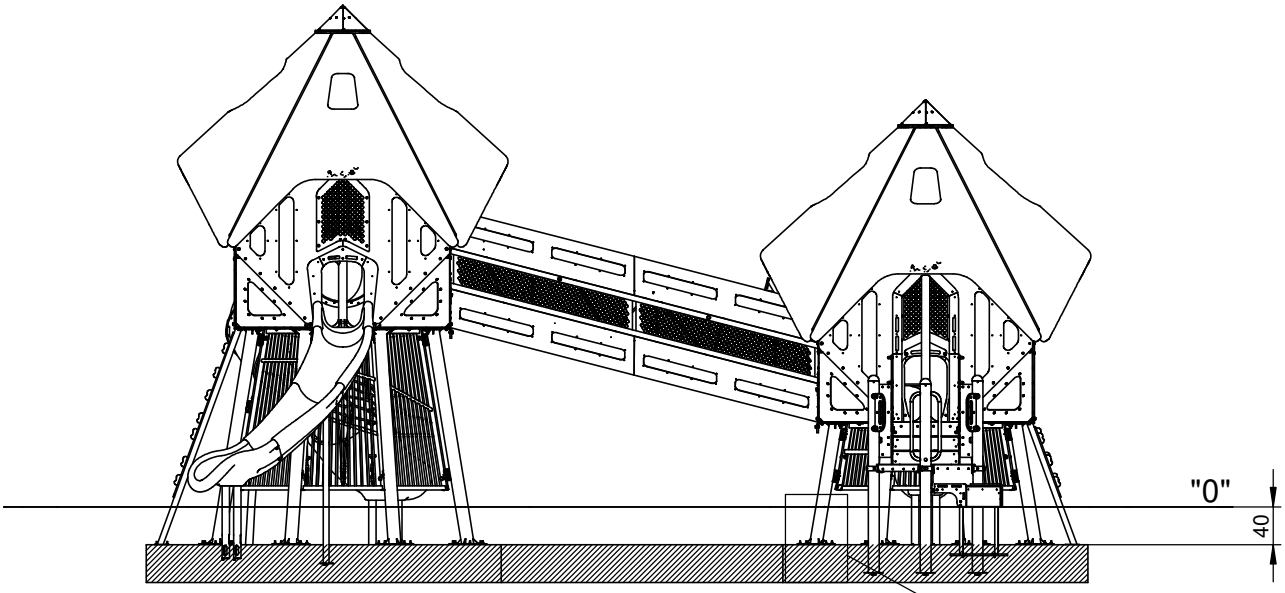

1301
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151

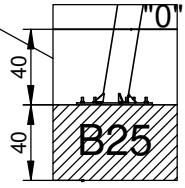
1436N

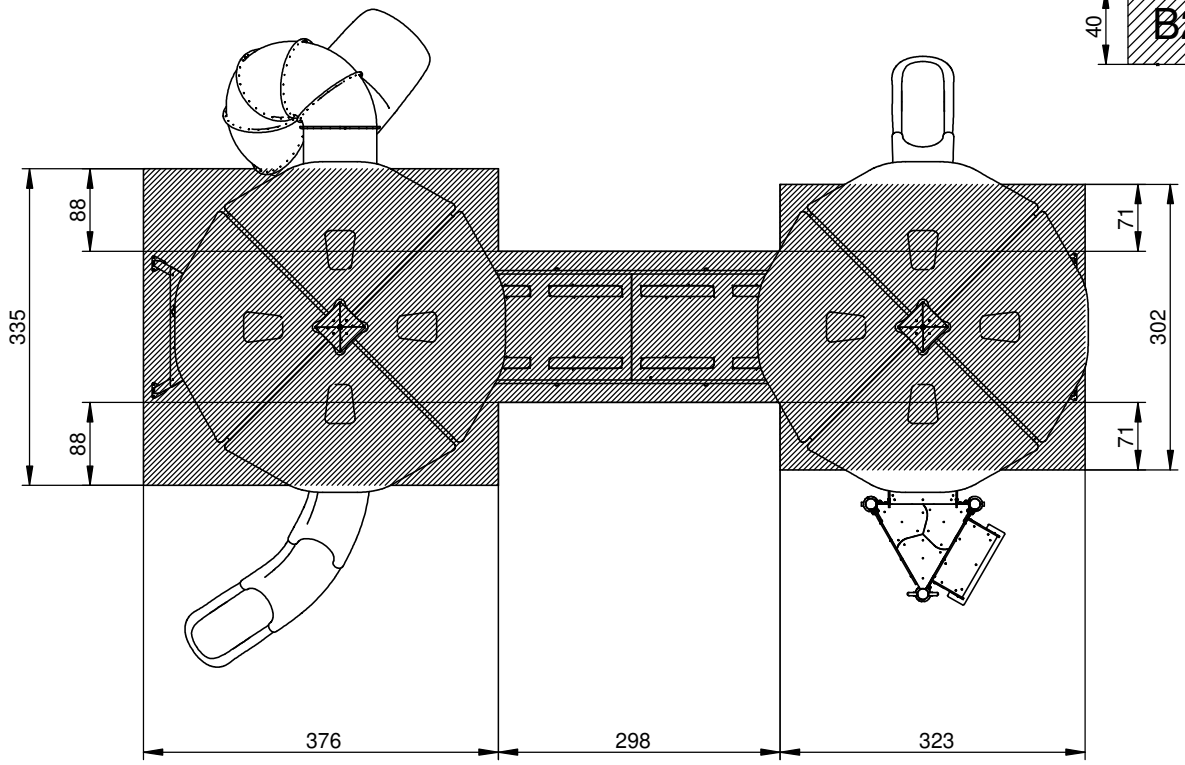

"0"
80


B25 10,9 m3

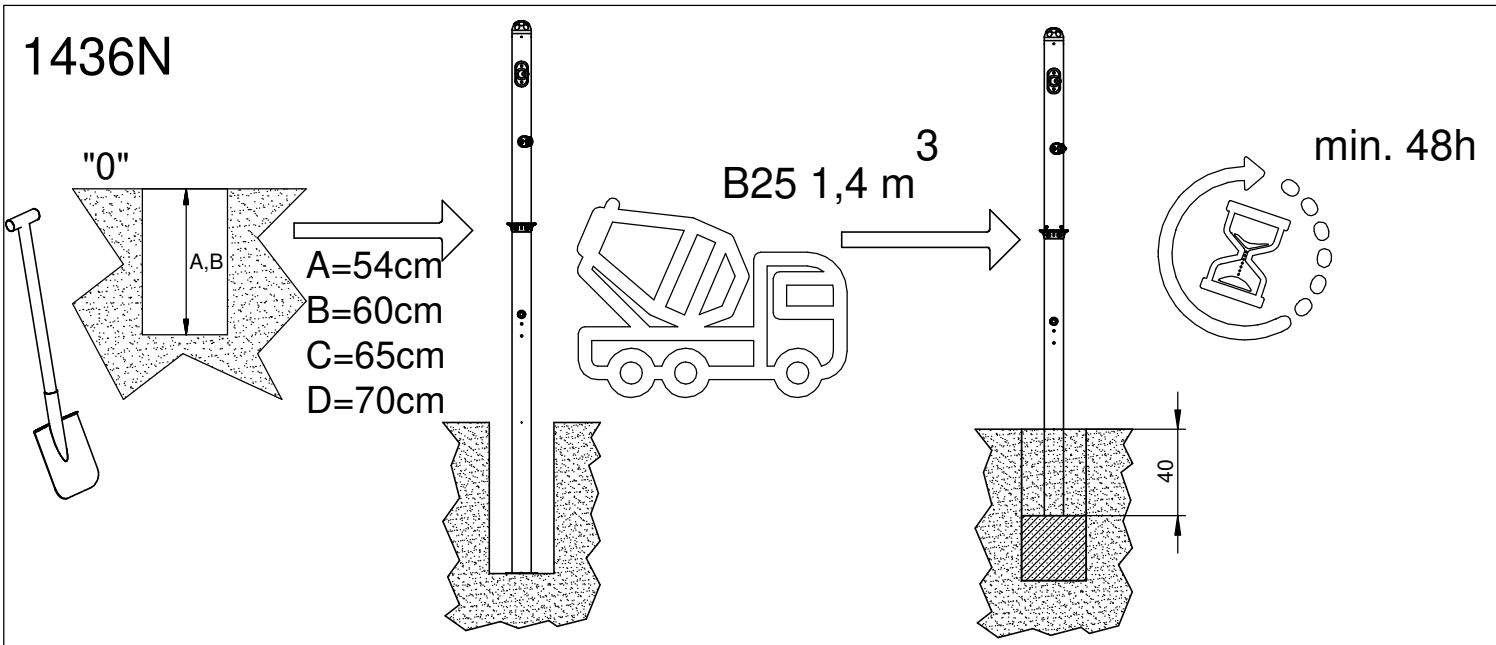

min. 48h

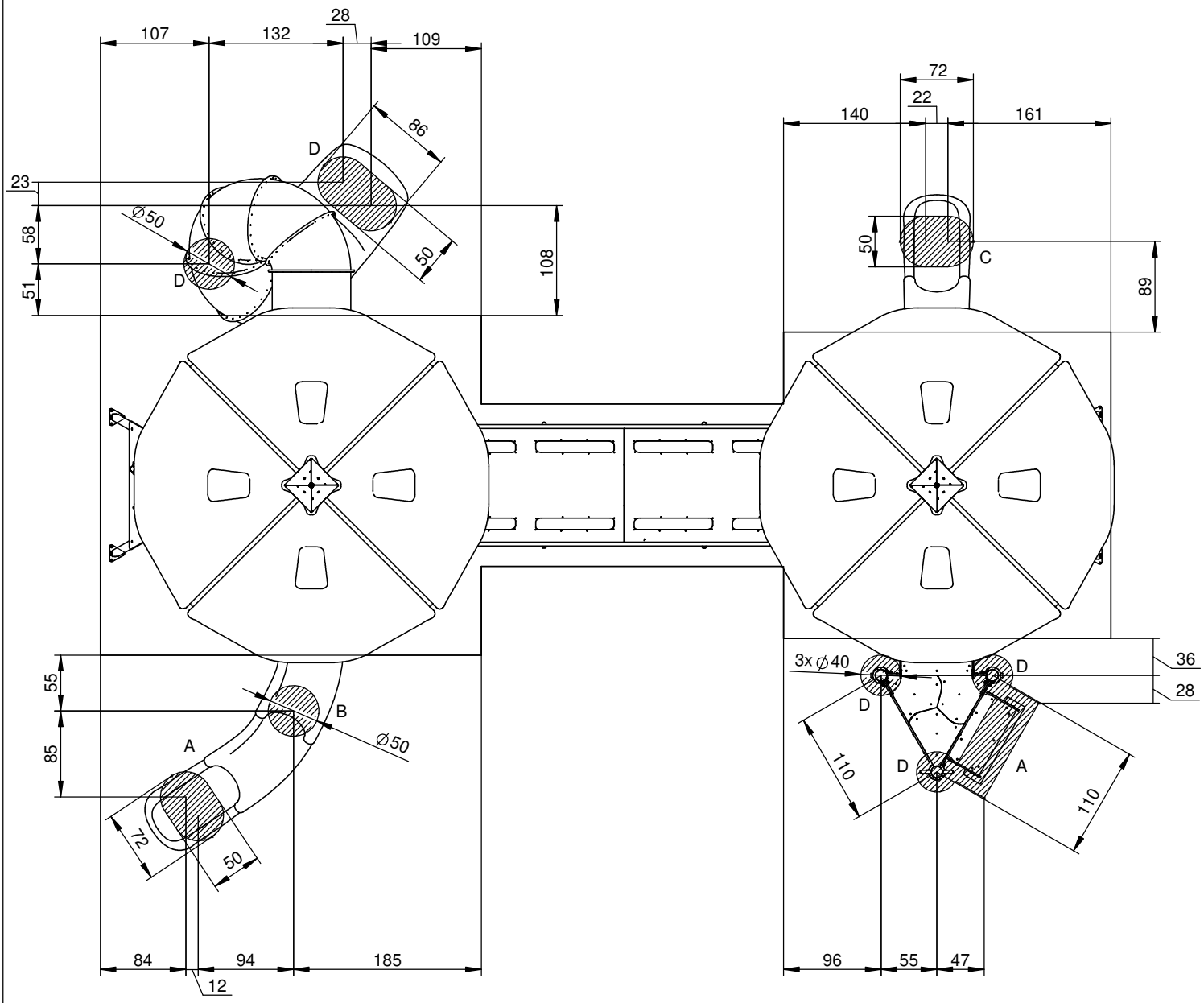

"0"
40


"0"
40
40
B25

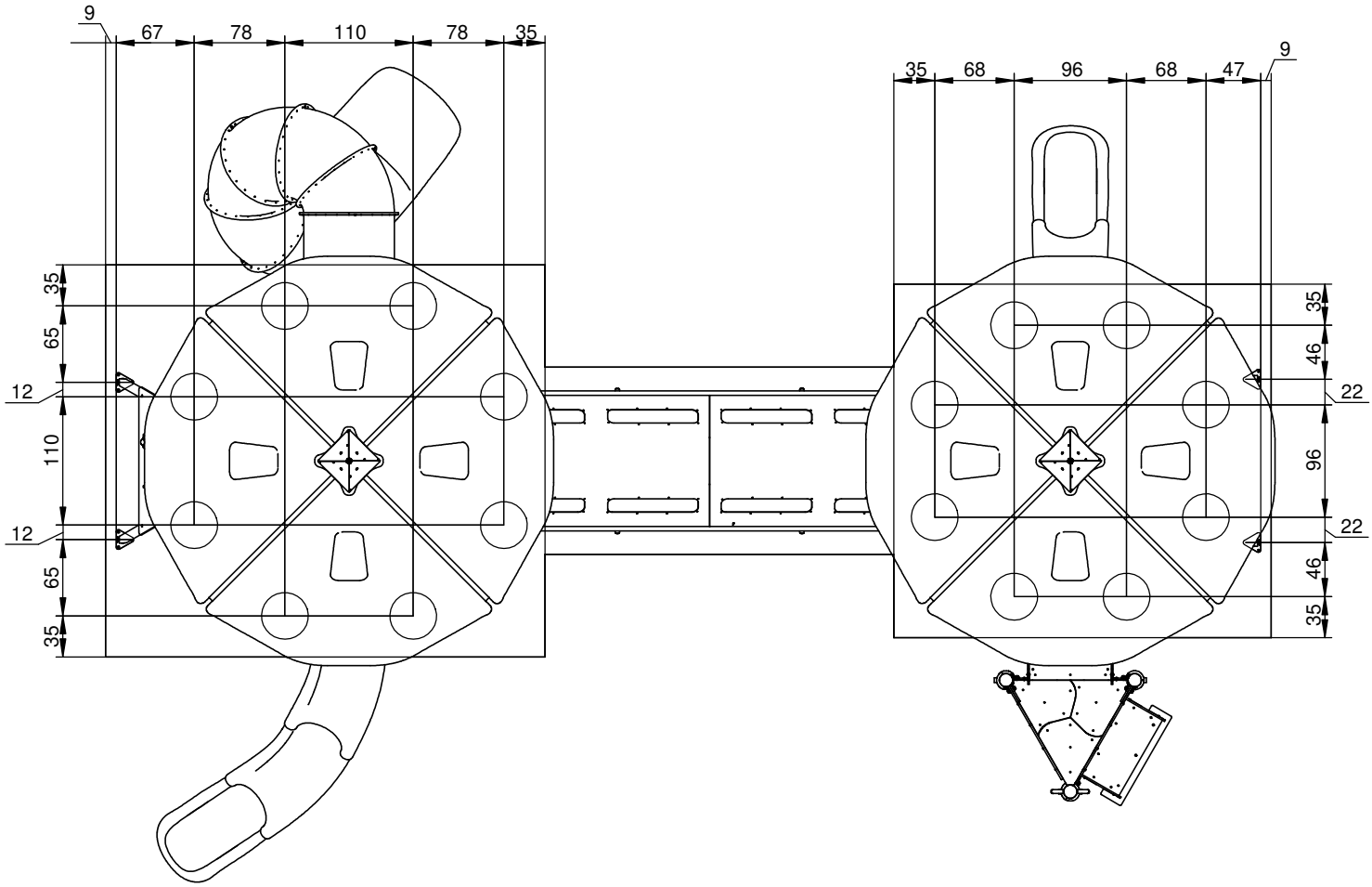

88
335
88
71
302
71
376
298
323

1436N


"0"
A,B
A=54cm
B=60cm
C=65cm
D=70cm
B25 1,4 m3
min. 48h
40

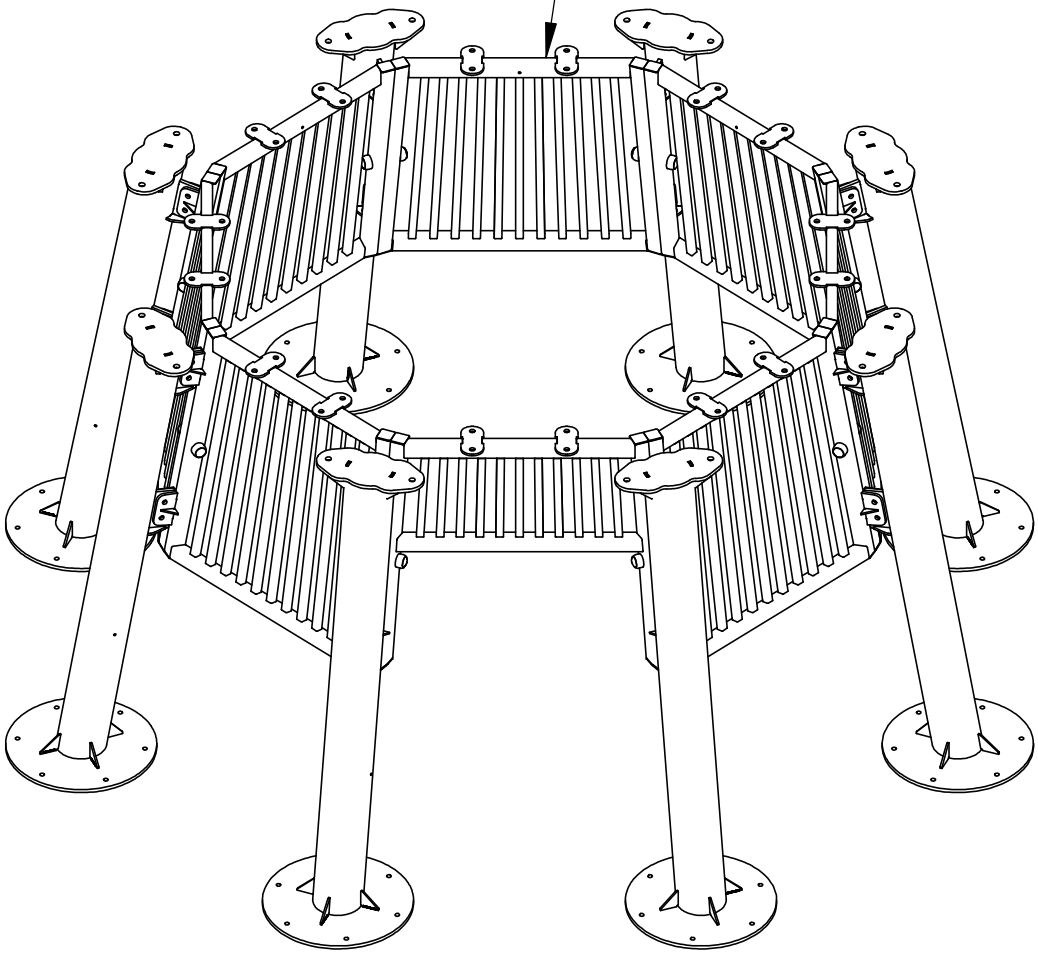

107
132
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86
D
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51
Ø50
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108
72
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140
161
50
C
89
55
85
B
A
Ø50
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84
94
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55
47

1436N

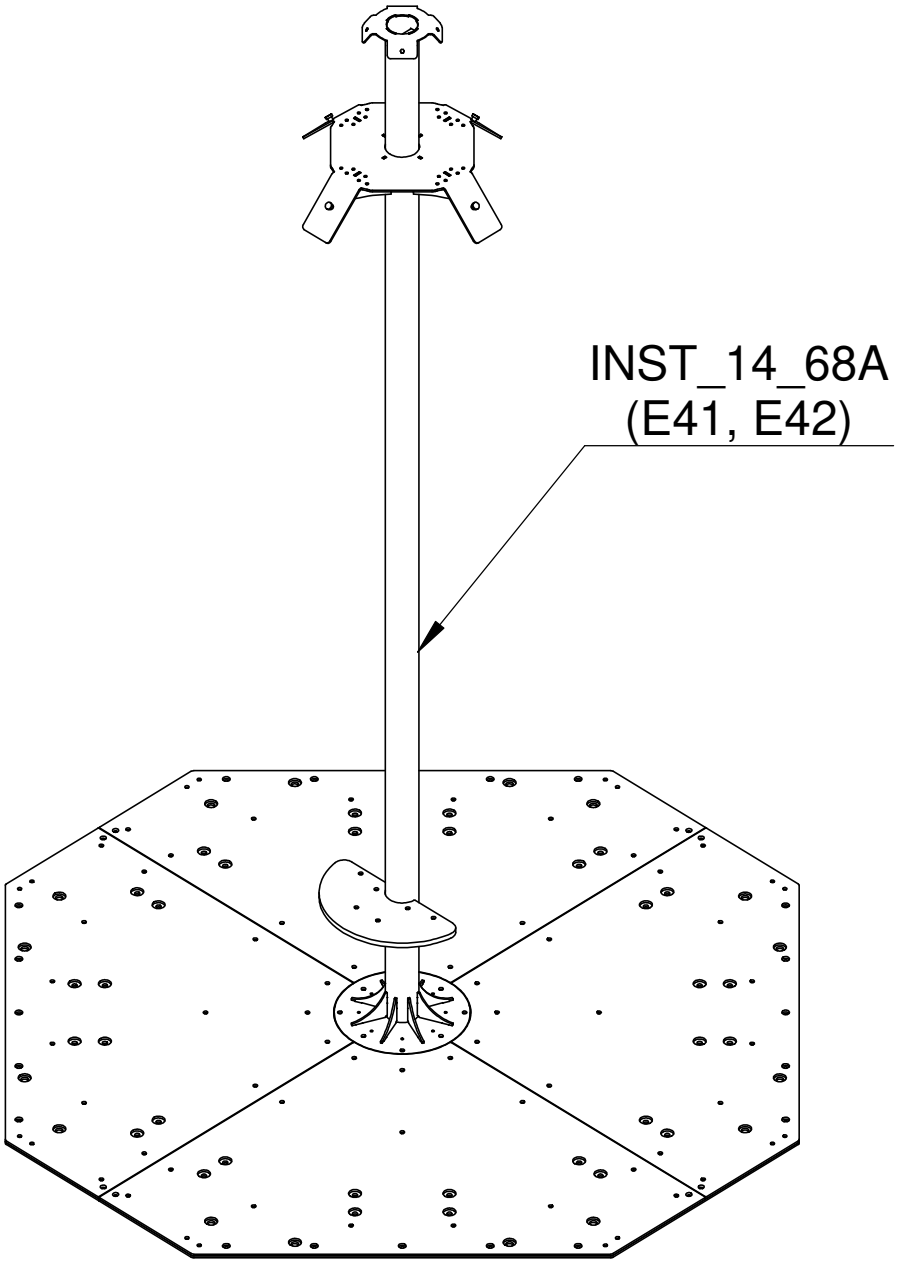

9
67
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35
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46
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46
35

1 1436N

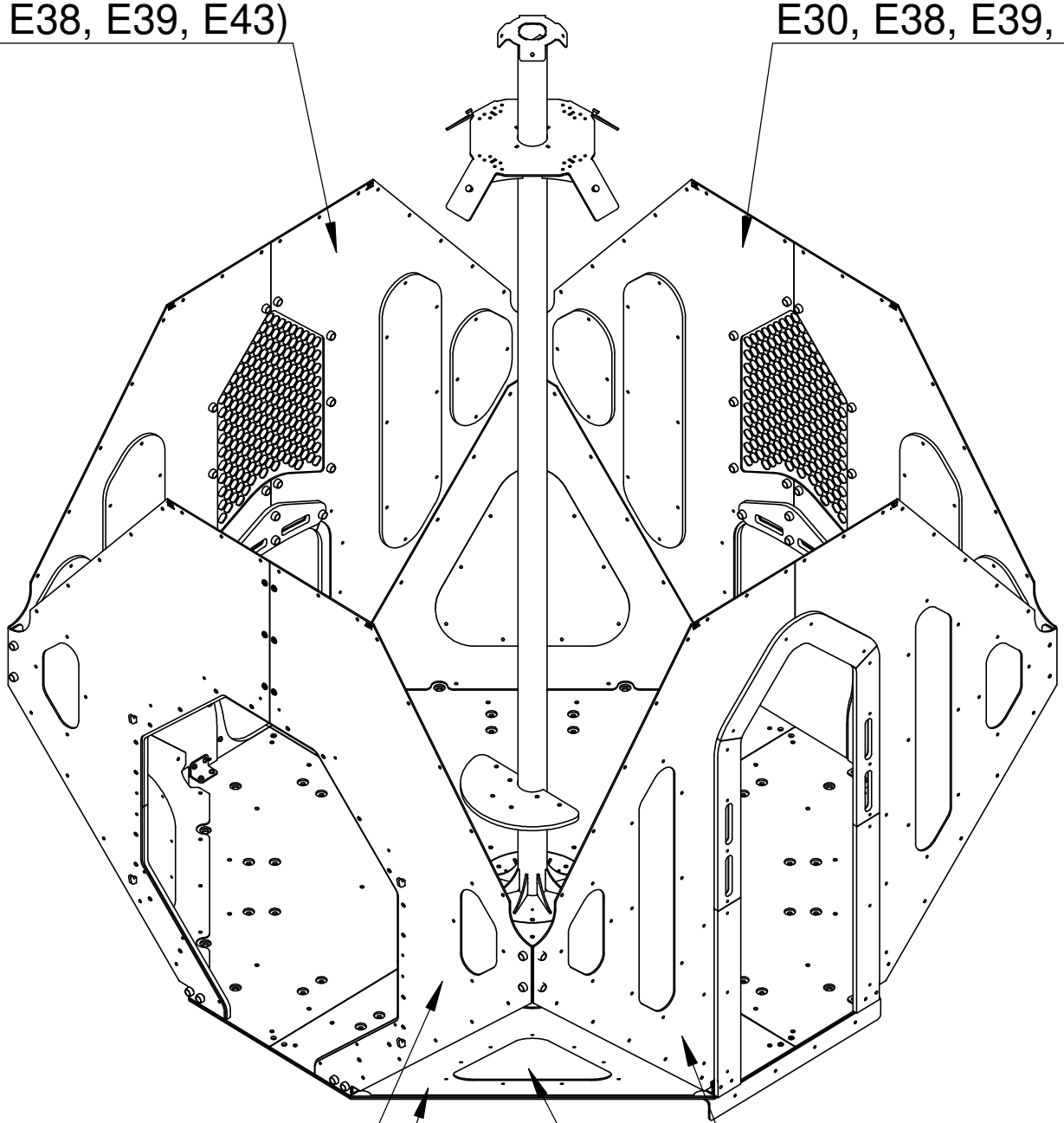
INST_14_134
INST_14_135
(8xE54, 7xE55, E56)



2 1436N

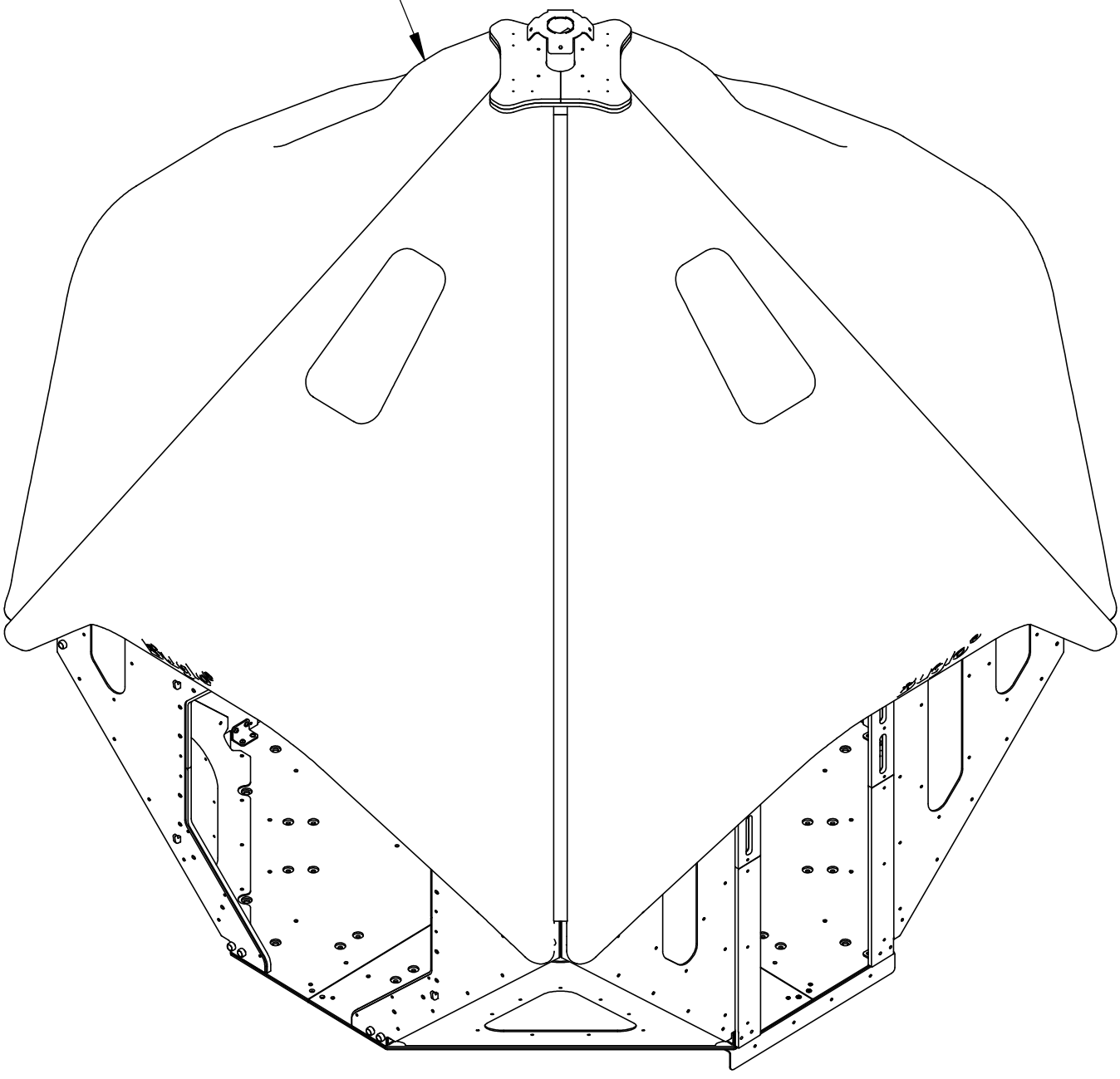


3 1436N

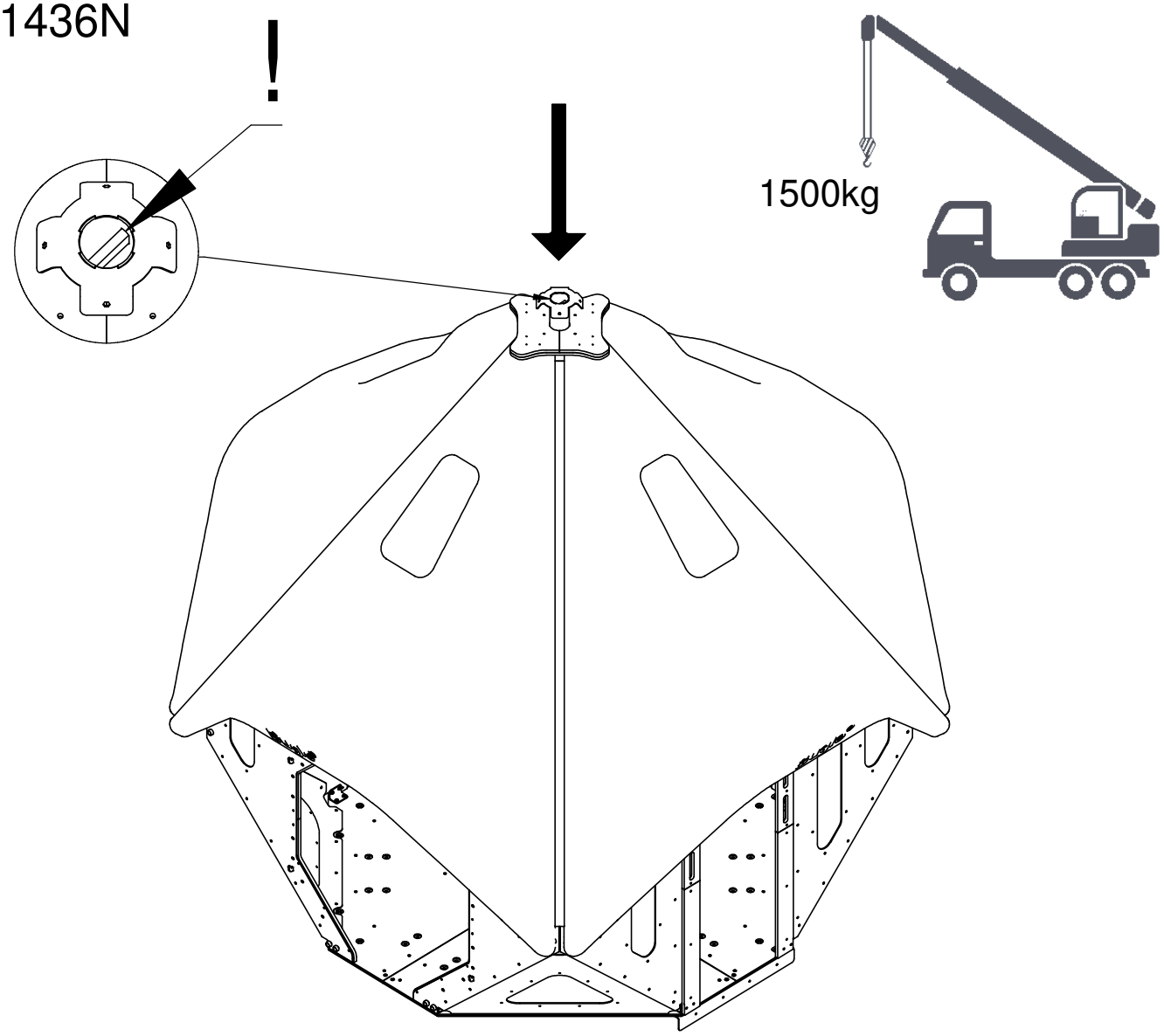

INST_14_60
(E11, 2xE12, E29,
E30, E38, E39, E43)
INST_14_60
(E11, 2xE12, E29,
E30, E38, E39, E43)
INST_14_47
(E11, 2xE12, E23,
E24, E31)
INST_14_54
(E11, 2xE12, E33,
E34, E35)
INST_14_39A
(E6)
INST_14_39A
(E6, E7)

4 1436N

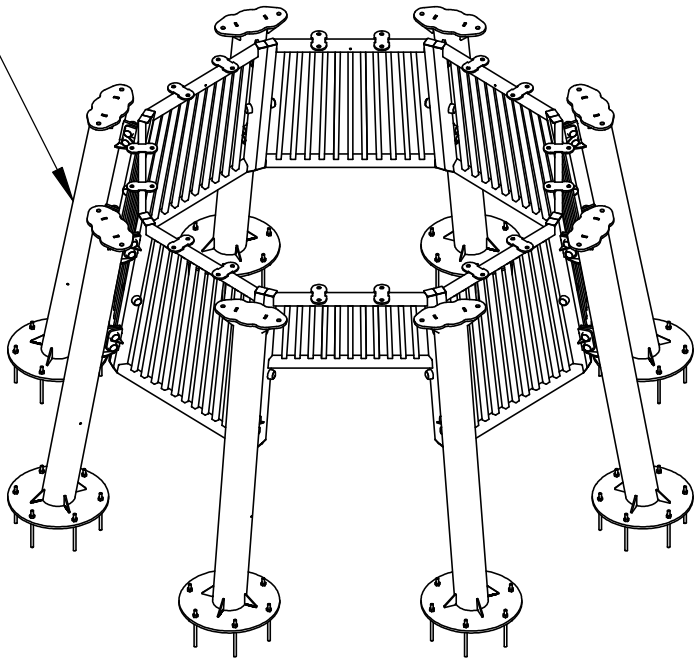
INST_14_37
(4xE2, 4xE3, 4xE5)



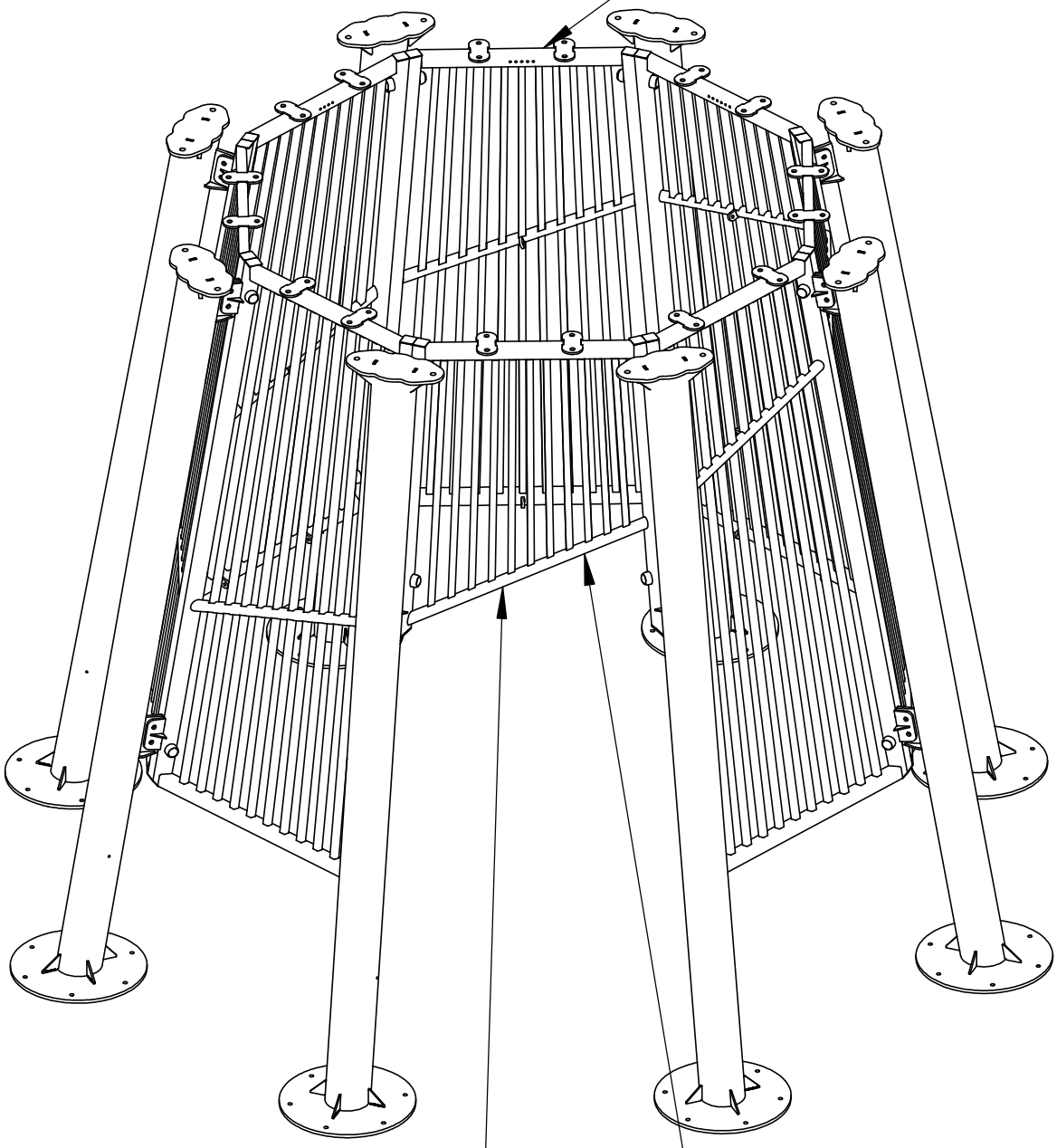
5 1436N



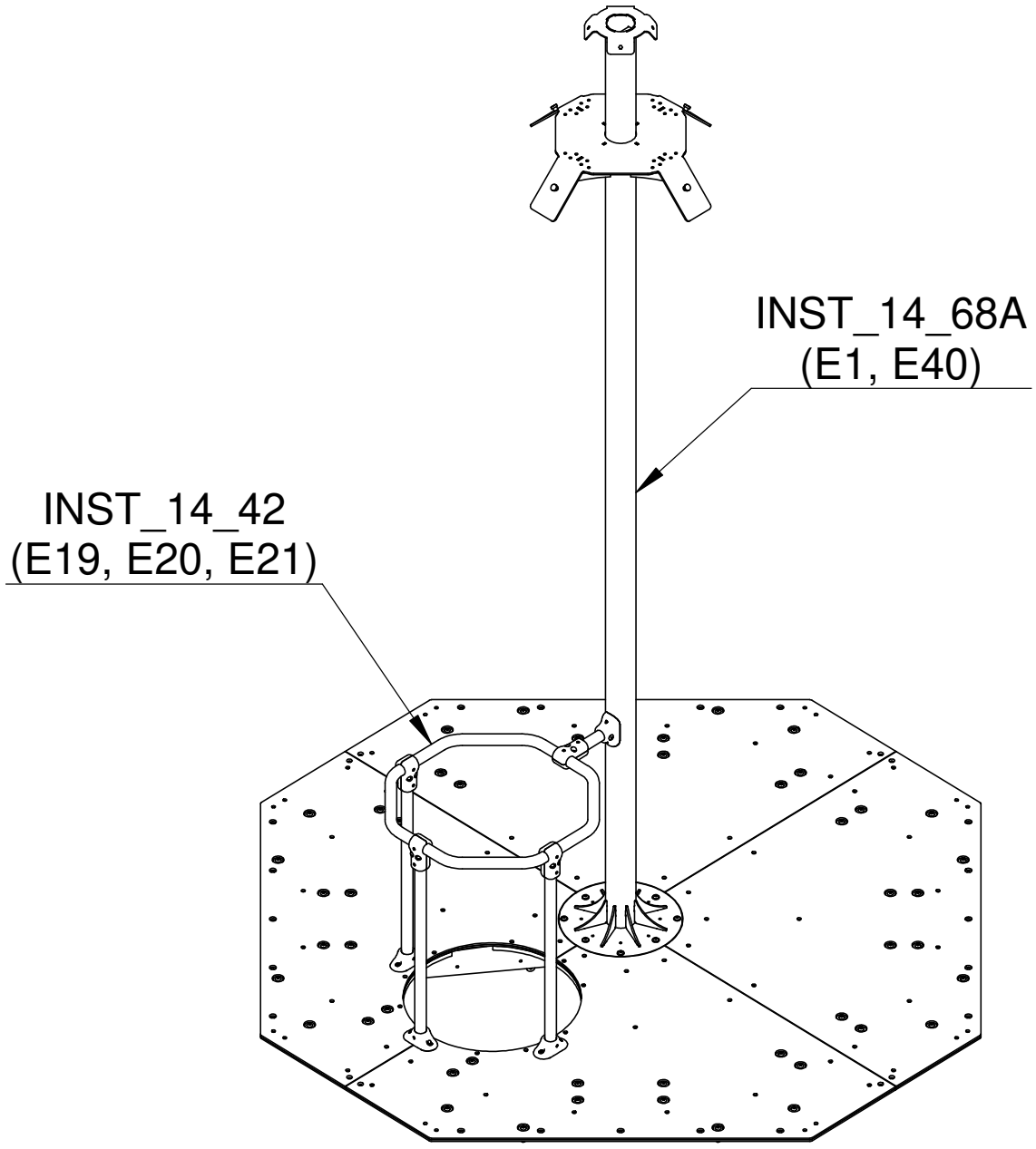
INST_14_36



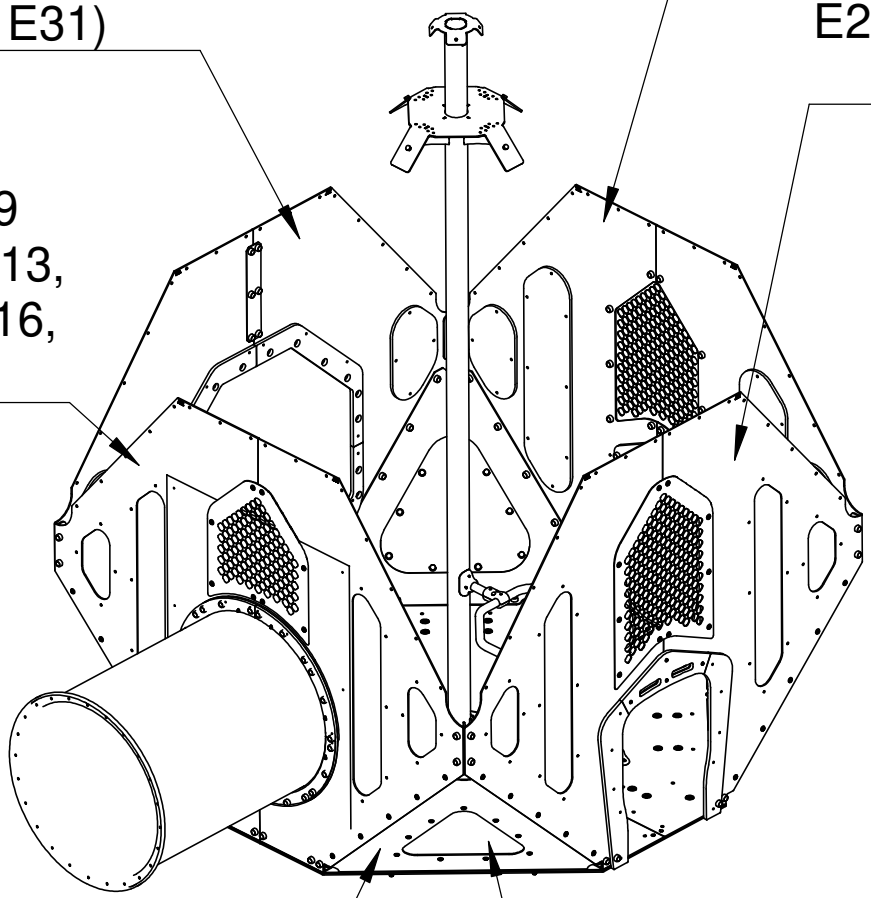
6 1436N


INST_14_133A
(E52, E45, E46, E47,
E48, E49, E50, E51)
INST_14_132
(E44, E45, E46, E47,
E48, E49, E50, E51)
INST_14_133B
(E44, E45, E51, 2xE53)

7 1436N

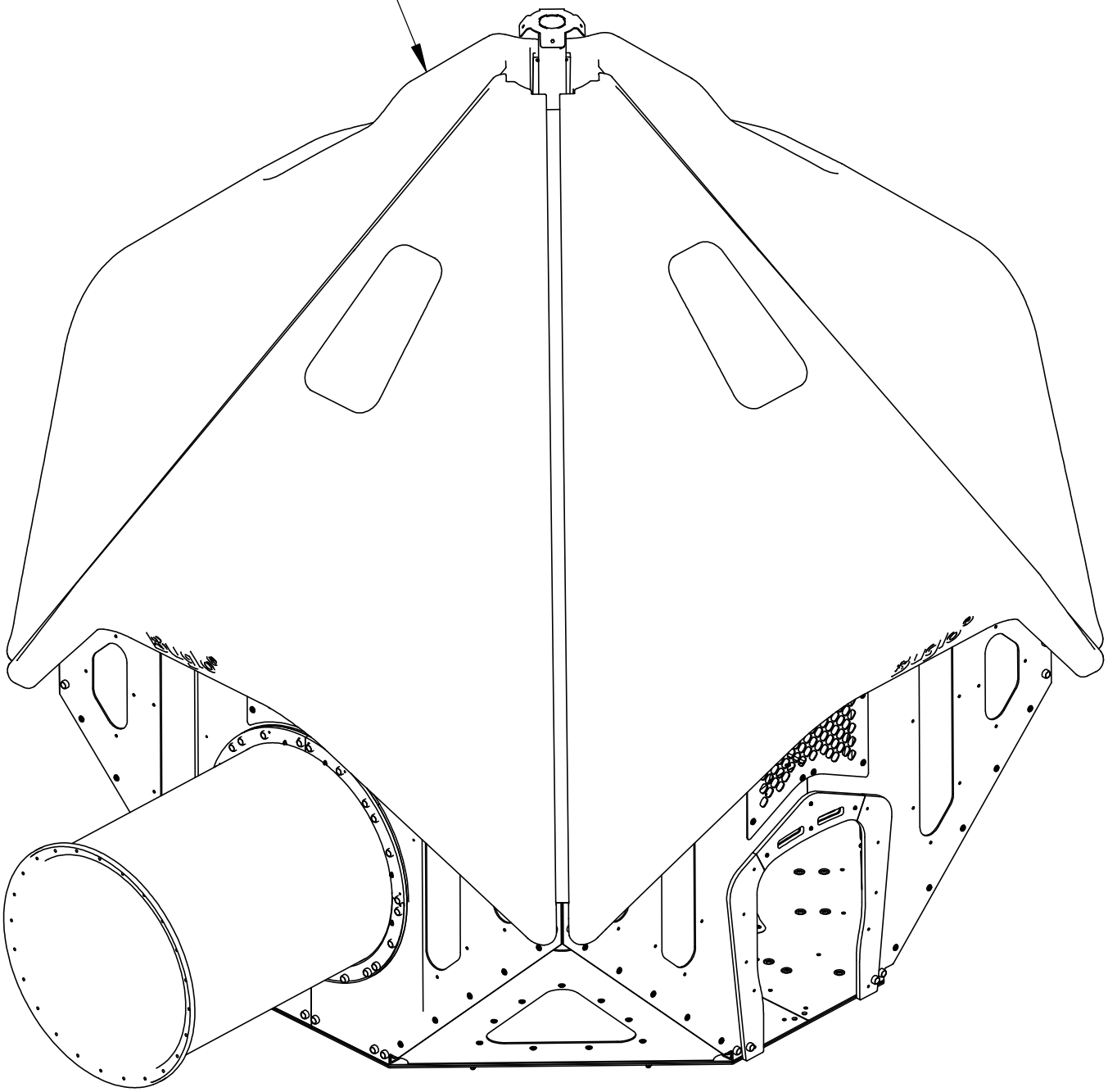


8 1436N

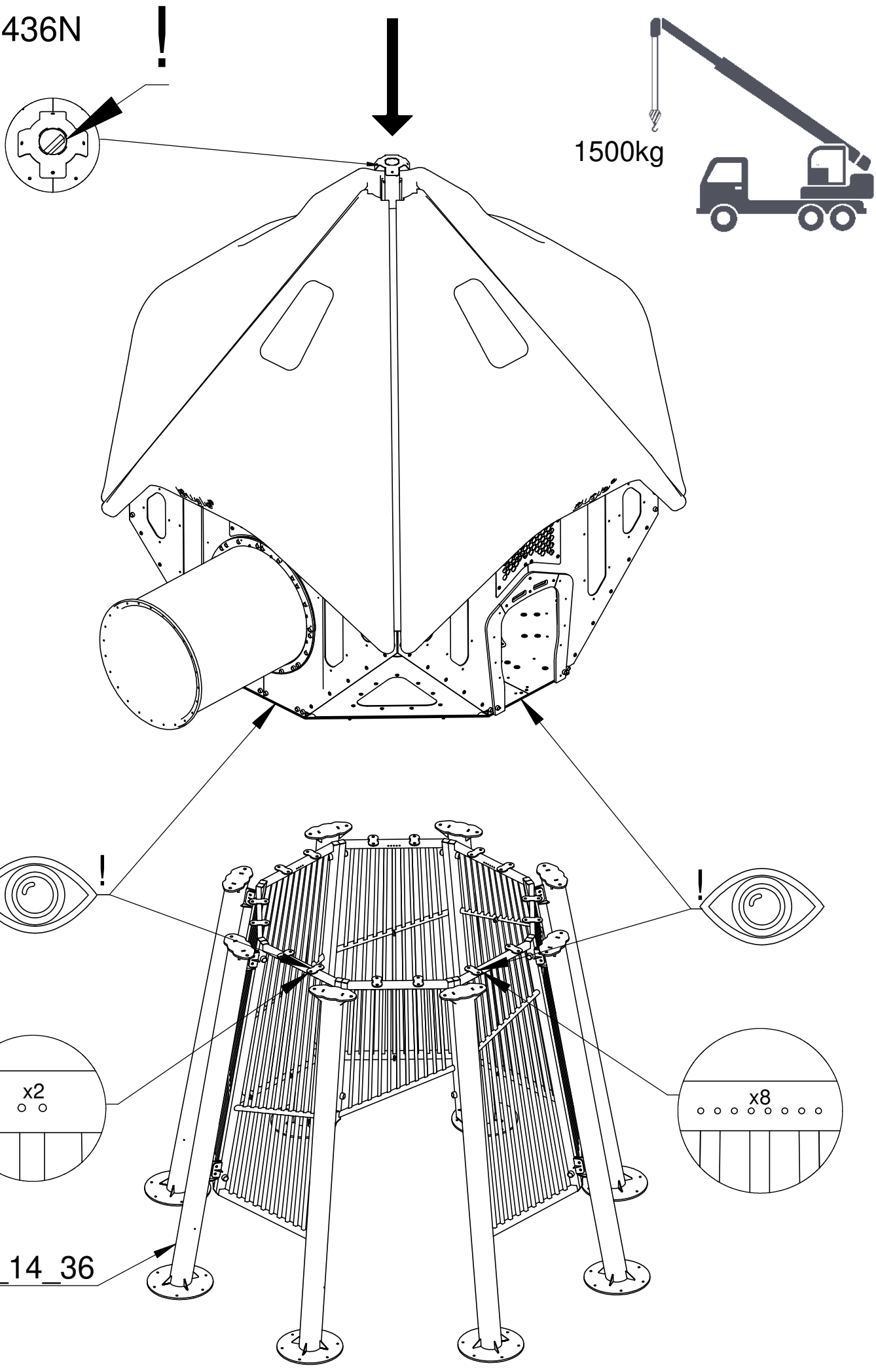

INST_14_53
(E11, 2xE12, E26, E27, E28, E29, E30, E32)
INST_14_47
(E11, 2xE12, E23, E24, E31)
INST_14_60
(E11, 2xE12, E29, E30, E38, E39, E43)
INST_14_139
(E11, 3xE12, E13, E14, E15, 4xE16, 8xE17, E83)
INST_14_39A
(E6)
INST_14_39A
(E6, E7)

9 1436N

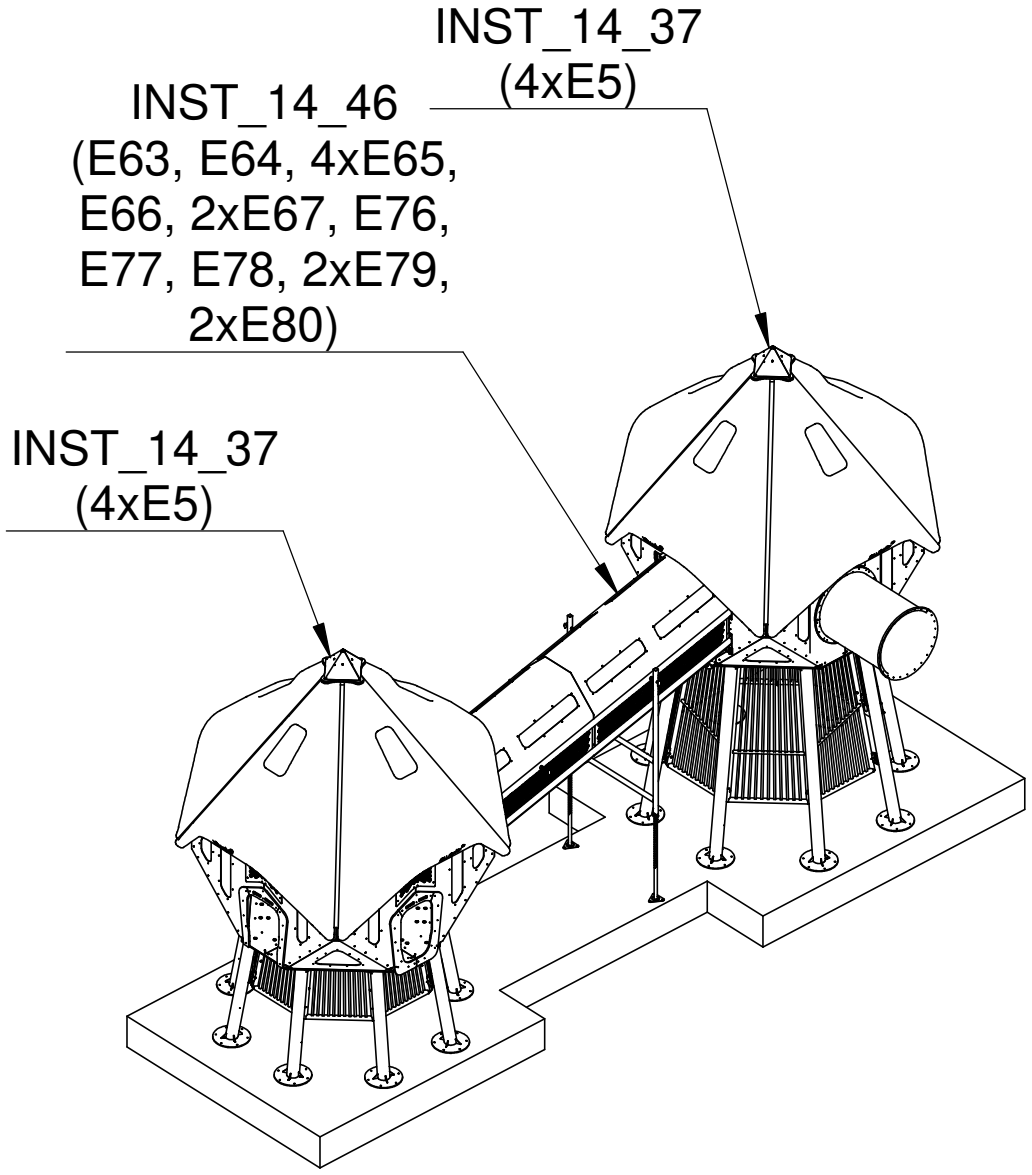
INST_14_37
(4xE2, 4xE3, 4xE5)

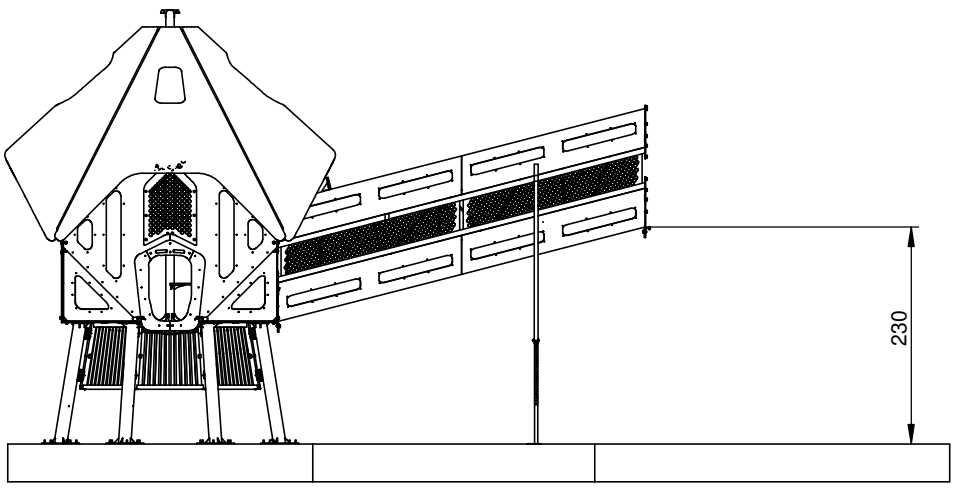


10 1436N

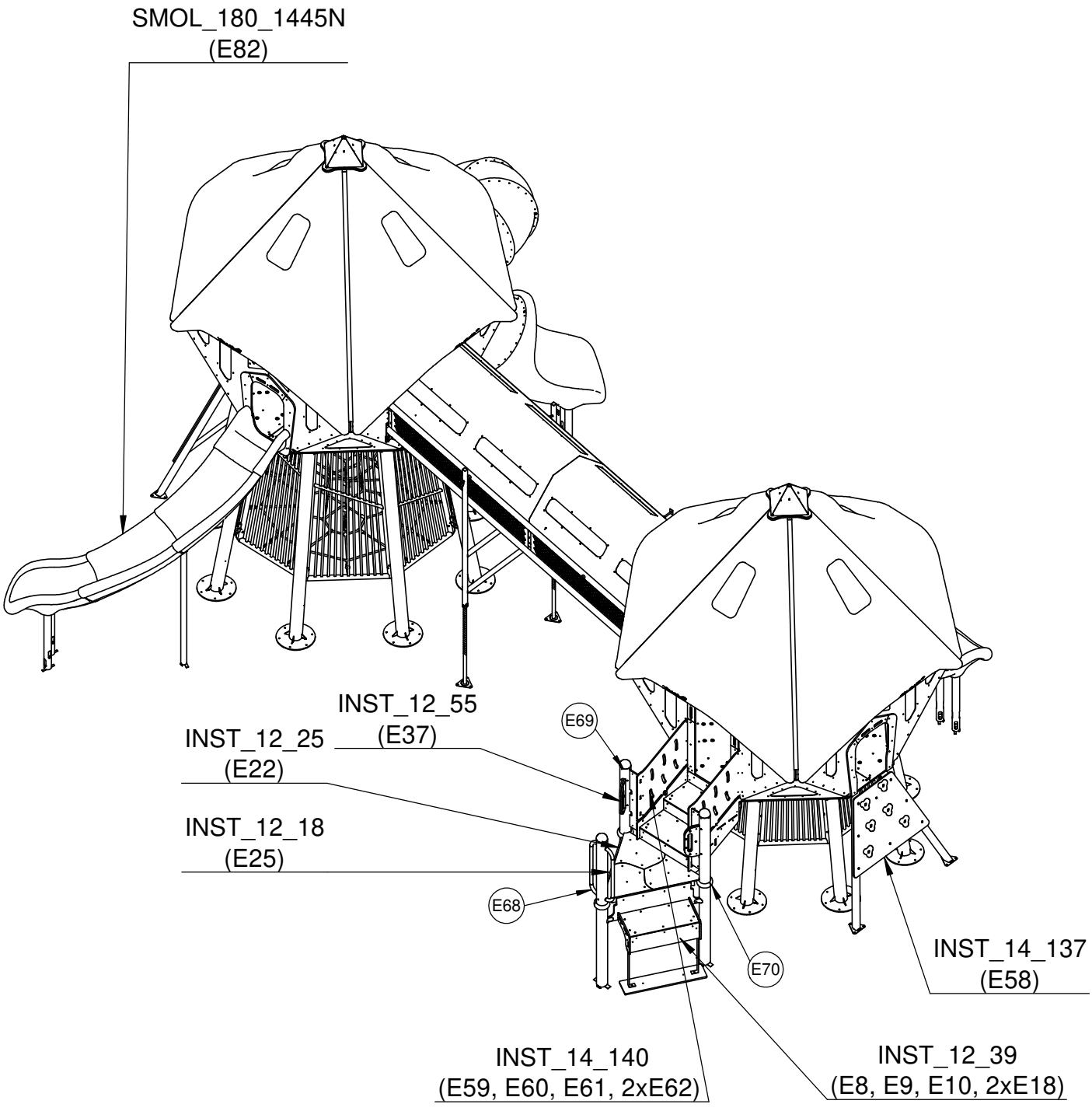


11 1436N

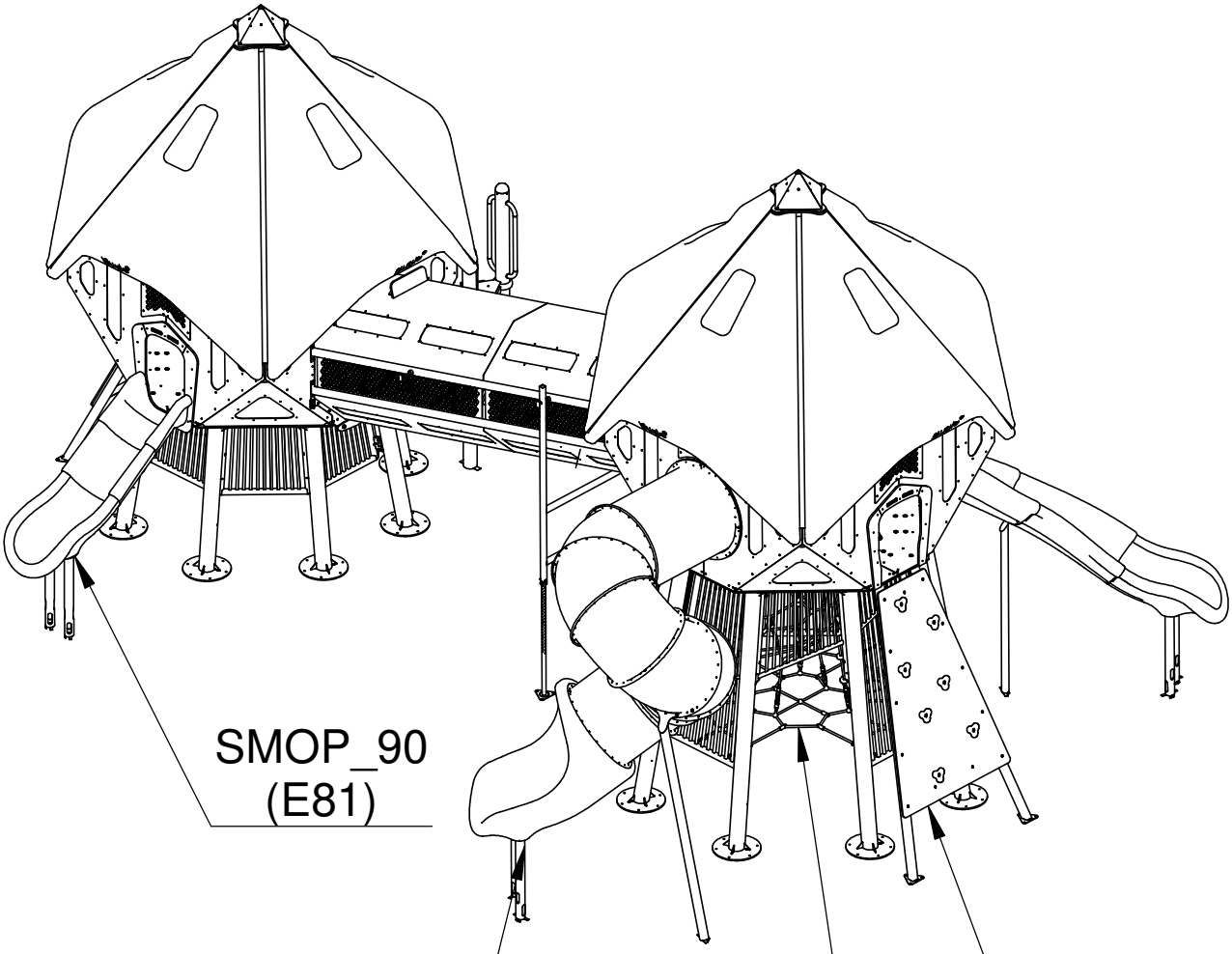

INST_14_37
(4xE5)
INST_14_46
(E63, E64, 4xE65,
E66, 2xE67, E76,
E77, E78, 2xE79,
2xE80)
INST_14_37
(4xE5)


230

12 1436N


SMOL_180_1445N
(E82)
INST_12_55
(E37)
INST_12_25
(E22)
INST_12_18
(E25)
E69
E68
E70
INST_14_137
(E58)
INST_14_140
(E59, E60, E61, 2xE62)
INST_12_39
(E8, E9, E10, 2xE18)

13 1436N



SMOP_90
(E81)

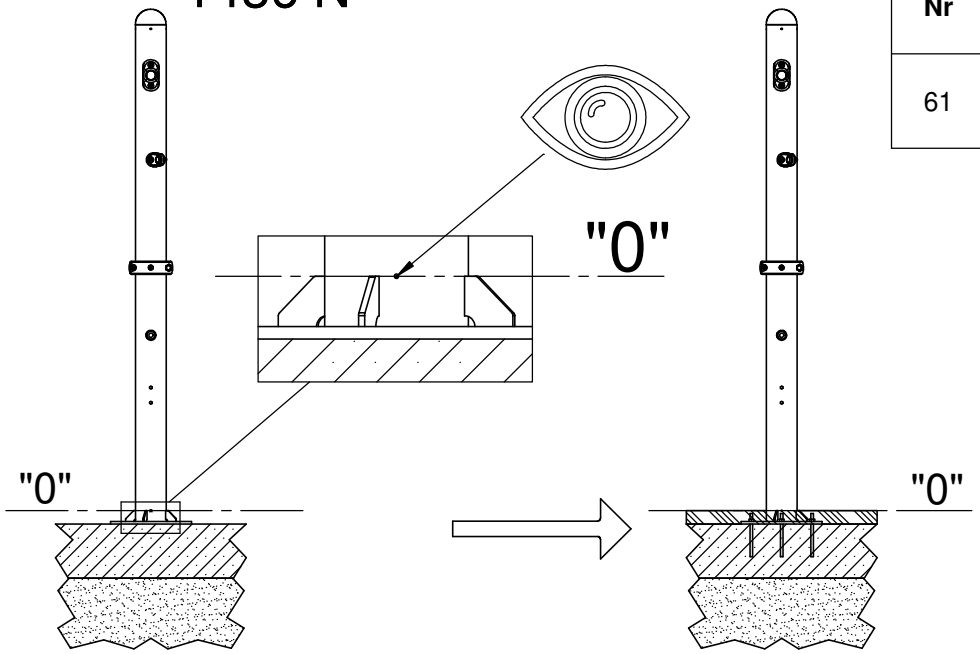
INST_14_141
(E57)

MTSS_H210_245555
3316 (LZ)
(E83)

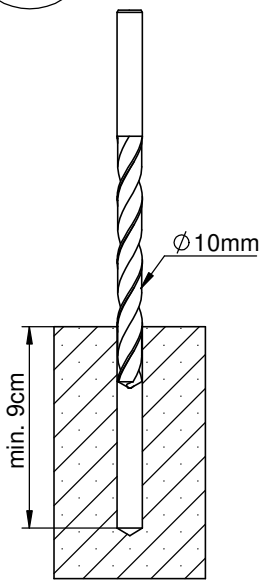
INST_14_64B
(E71, E72, E73, E74,
E75)

1436 N

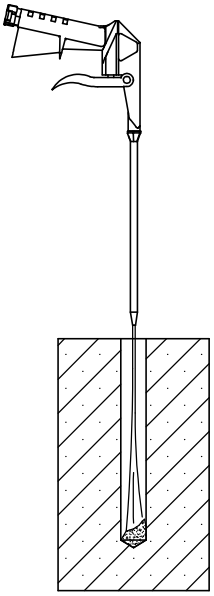
Nr	Element		
61		-	KL105 (OC)

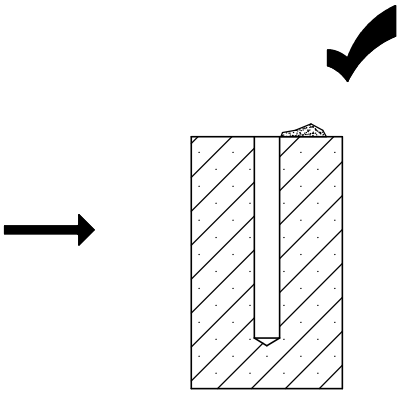


I

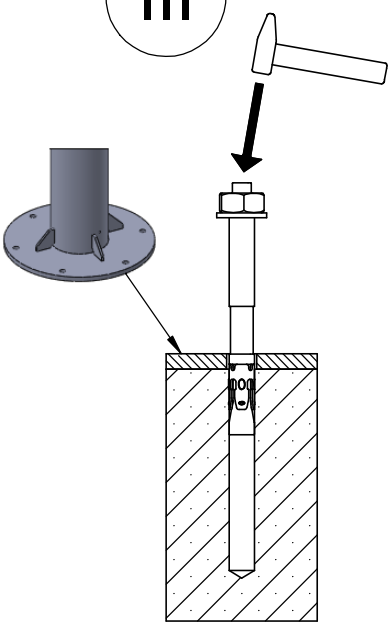


II

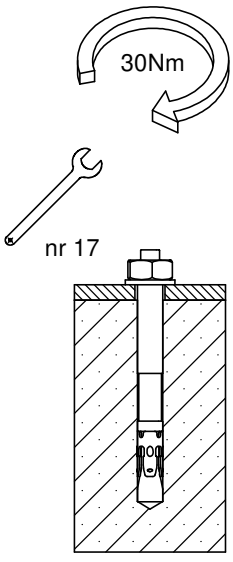




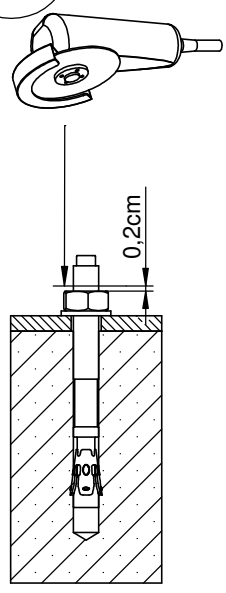
III



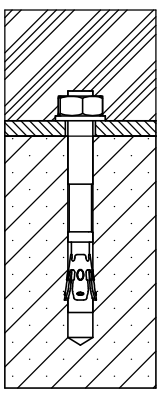
IV



V



VI



INST_12_18

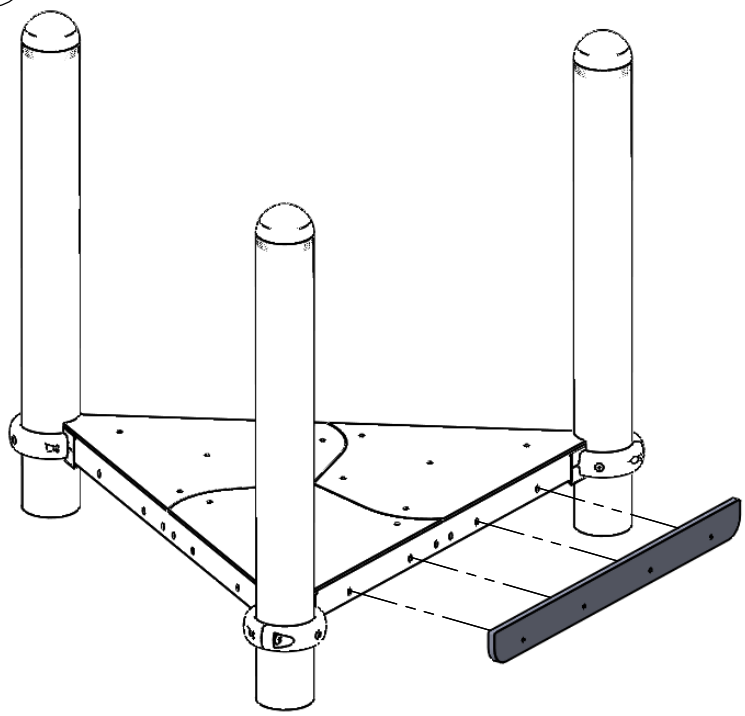




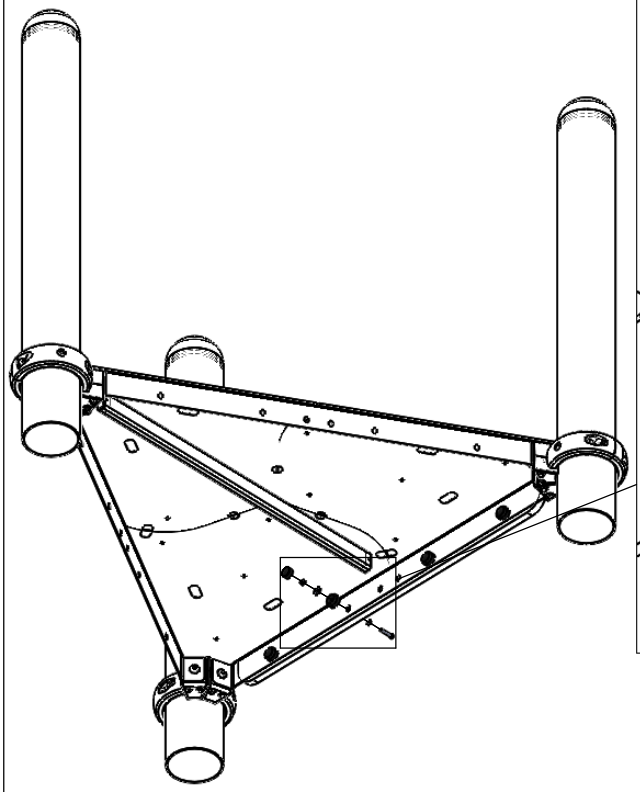
Nr. 4 Nr. T30

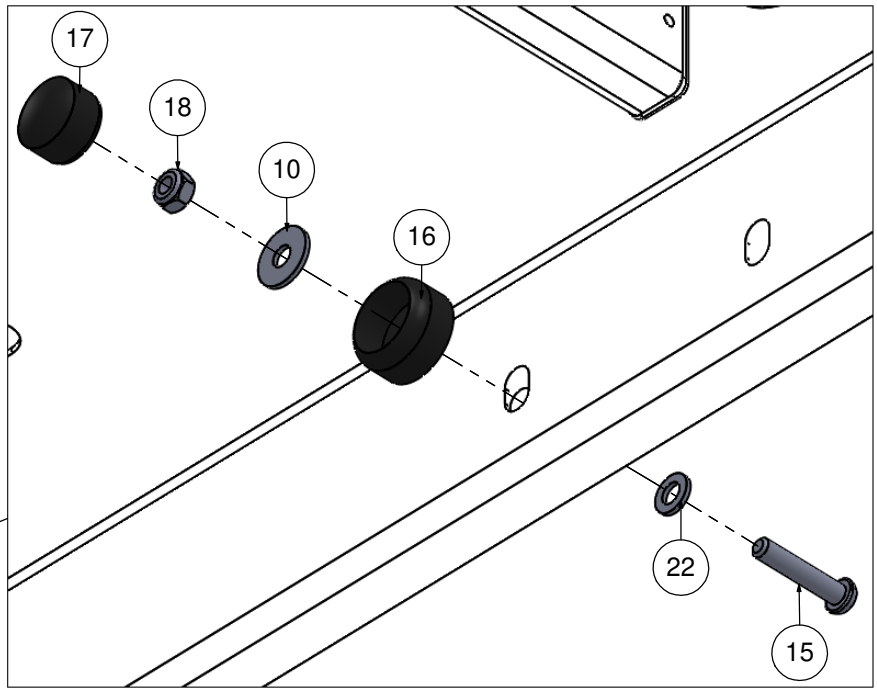
Nr	Σ	Element		
10	4		DIN 9021	6x18
15	4		ISO 7380	M6x30
16	4		-	K1_d21_B
17	4		-	Z1_d21_B
18	4		DIN 985	M6 (OC)
22	4		DIN 125	6x12
58	1		-	LOCTITE

1

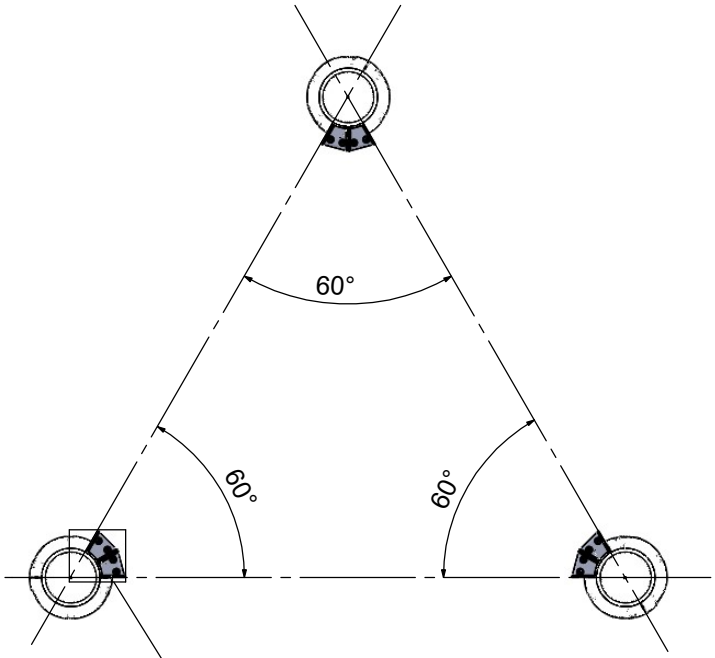


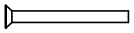
2

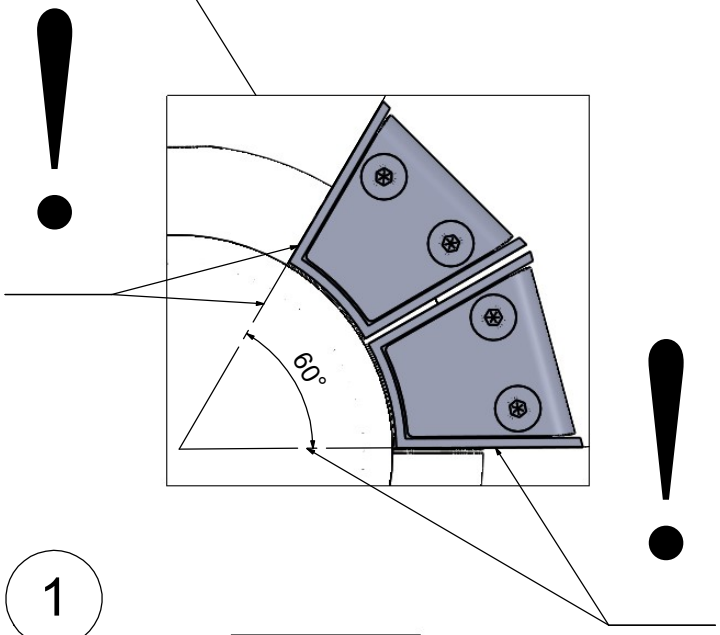


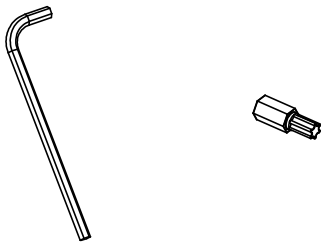


INST_12_25



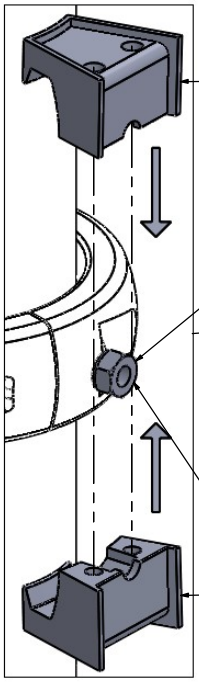
Nr	Σ	Element		
5	6		DIN 985	M10
21	12		DIN 125	8x16
44	6		ISO 7380	M10x25
58	1		-	LOCTITE
147	12		-	M6x10
242	6		-	1200_1_A2_g3_G_v3
243	12		-	UCHW_114,3
245	12		DIN 7991	M6x65
249	6		NYLON DIN 125	10x20

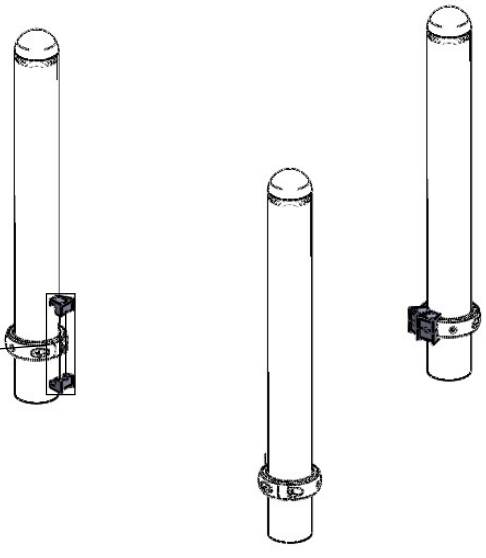




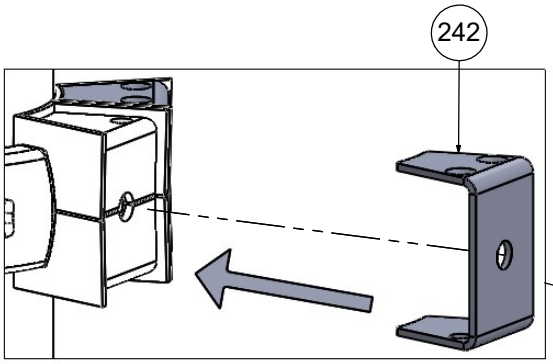
Nr. 4, 6 Nr. T30

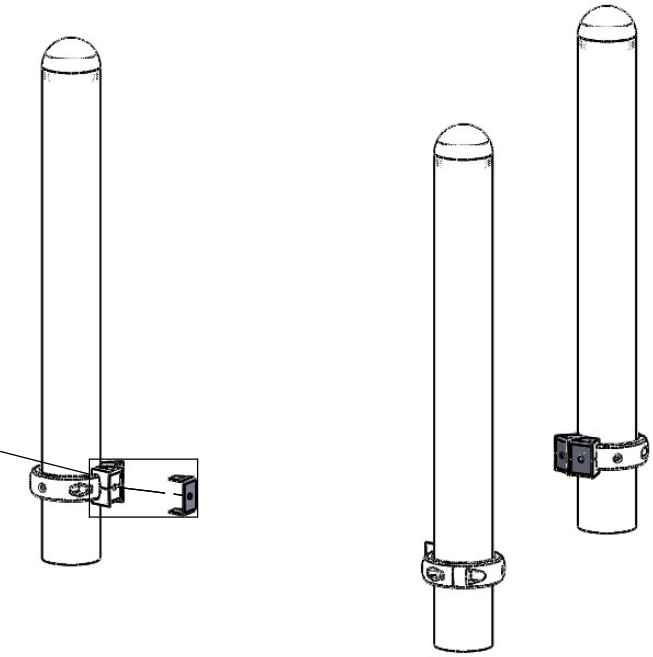
1



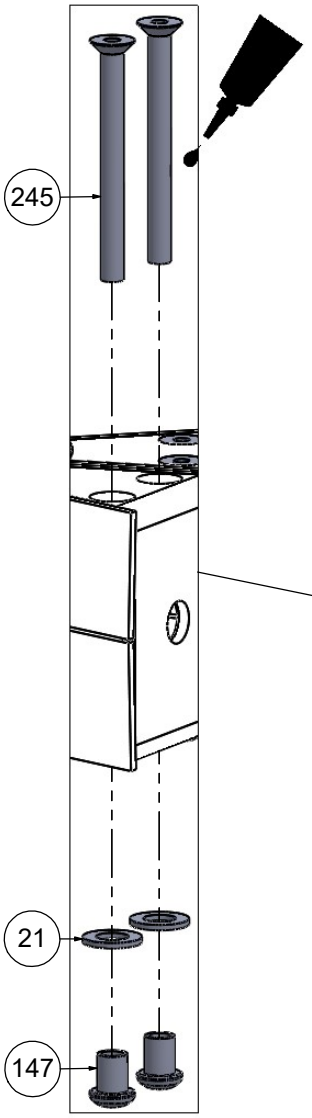


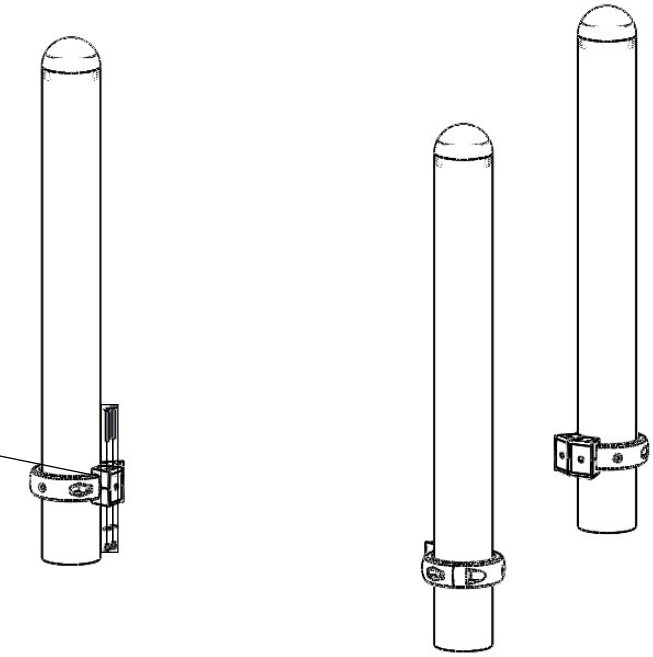
2



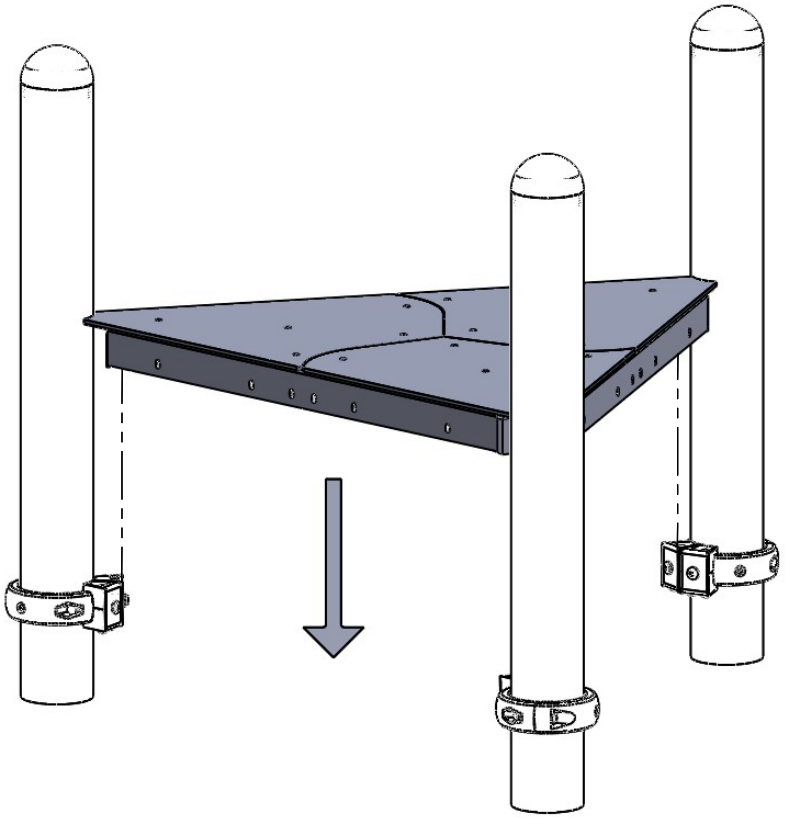


3

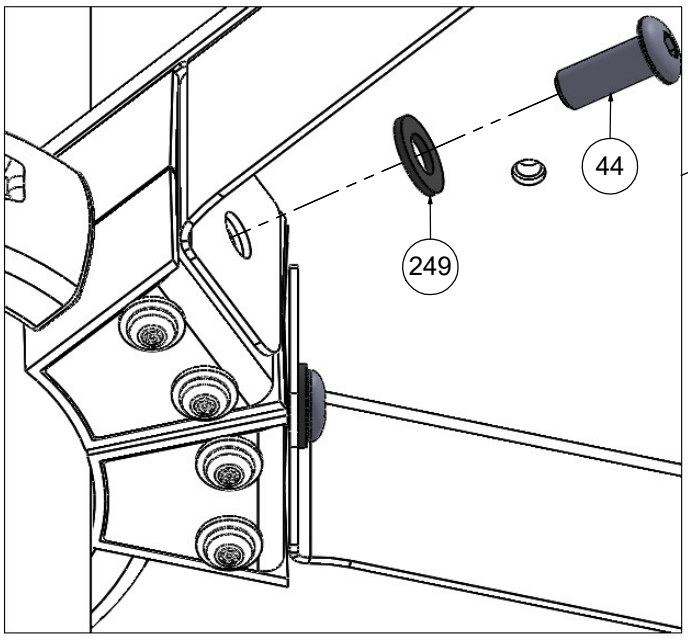


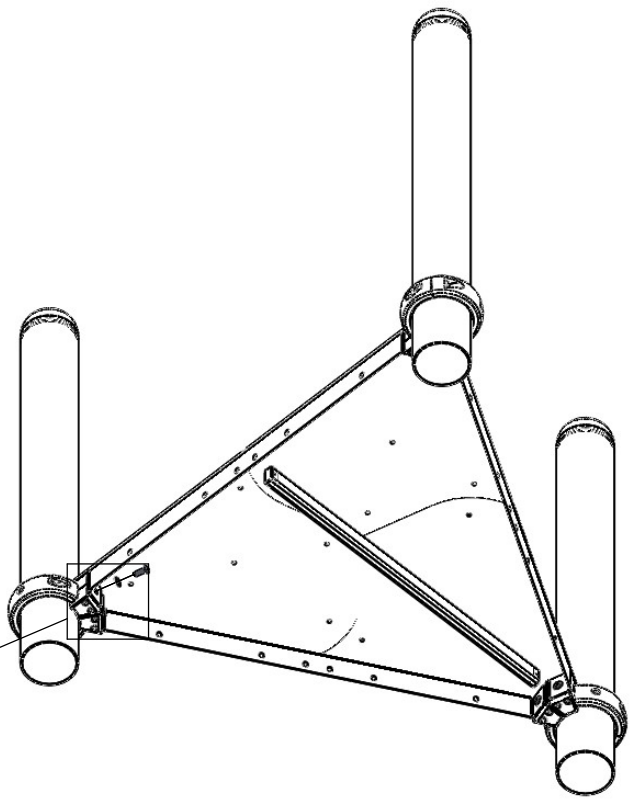


4



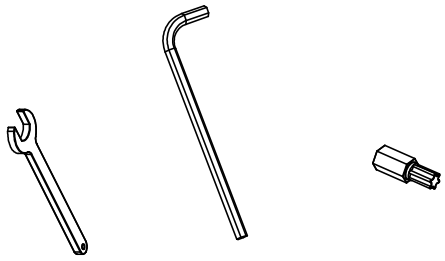
5





INST_12_25 3/3

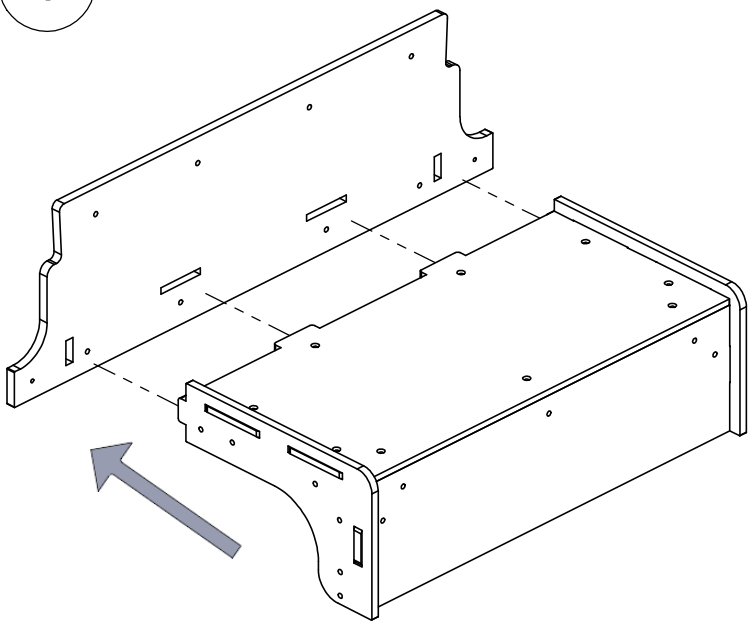
INST_12_39



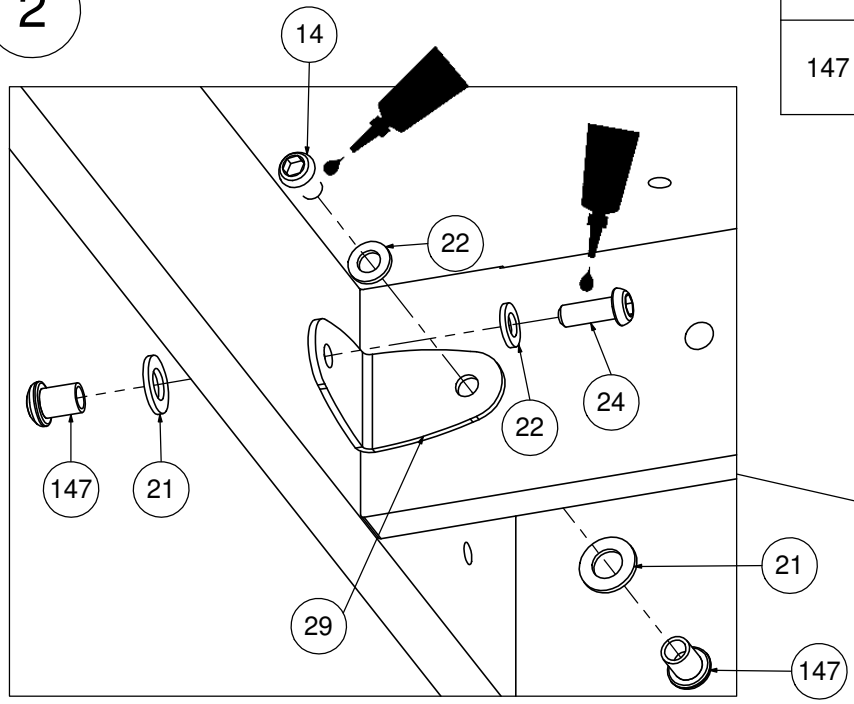
Nr. 10 Nr. 4 Nr. T30

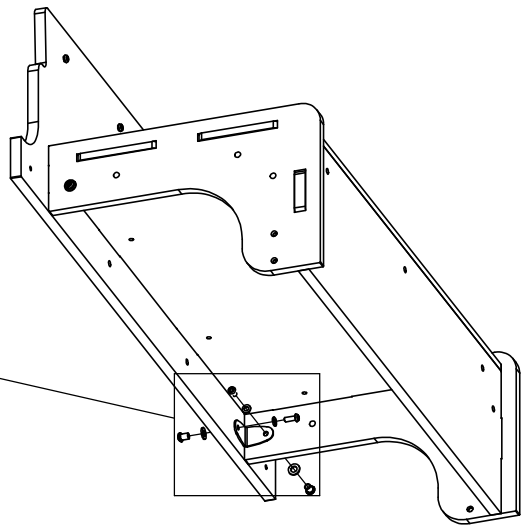
Nr	Σ	Element		
10	8		DIN 9021	6x18
11	2		DIN 1587	M6
14	2		ISO 7380	M6x12
15	4		ISO 7380	M6x30
16	6	ϕ2,1	-	K1_d21_B
17	6	ϕ2,1	-	Z1_d21_B
18	6		DIN 985	M6 (OC)
21	6		DIN 125	8x16
22	12		DIN 125	6x12
24	4		ISO 7380	M6x16
25	2		ISO 7380	M6x35
29	4		-	K_5_A2_g2_G_v2
58	1		-	LOCTITE
124	2		DIN 7991	M6x20
147	6		-	M6x10

1

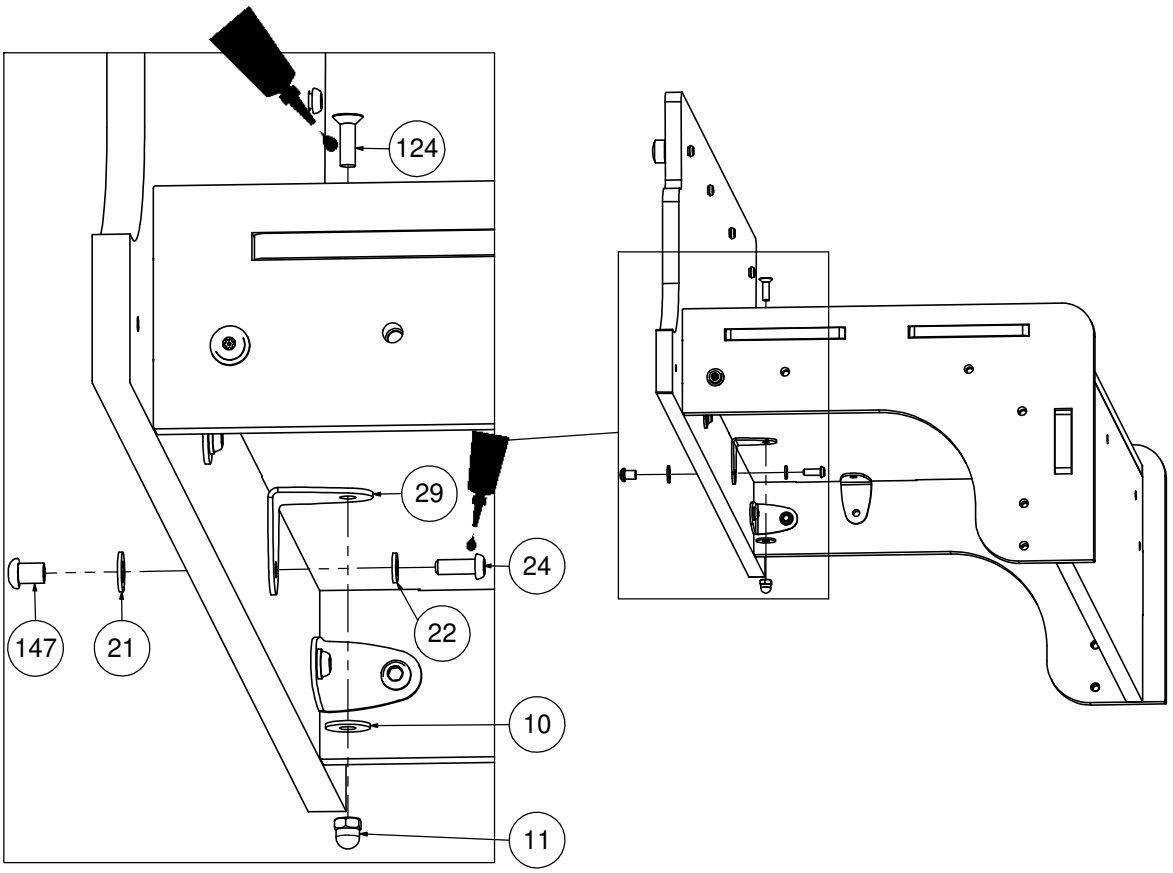


2



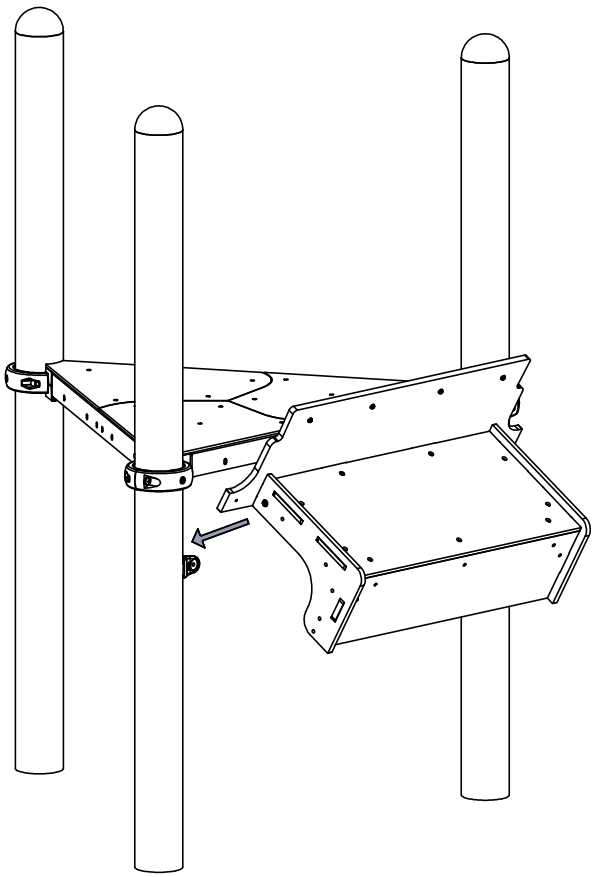


3

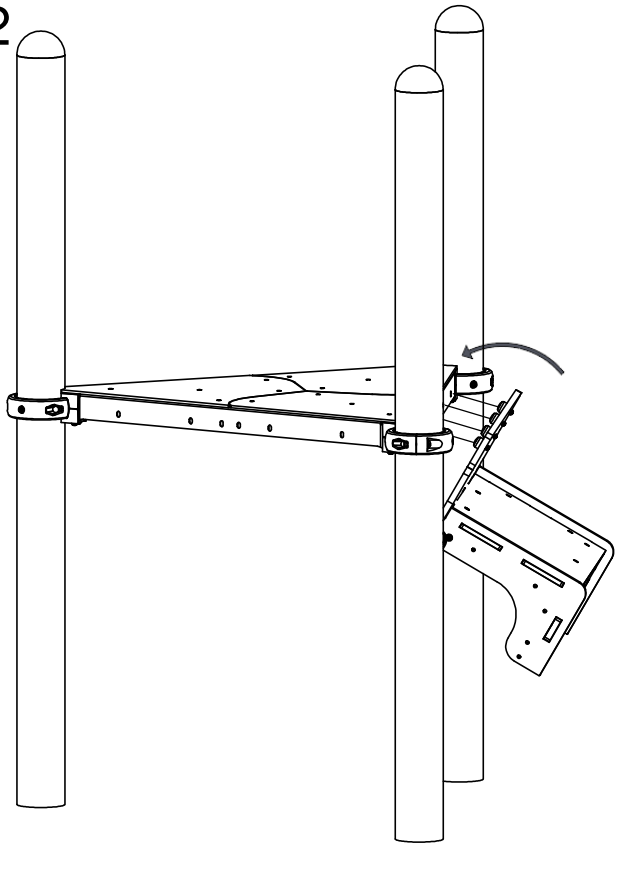


4

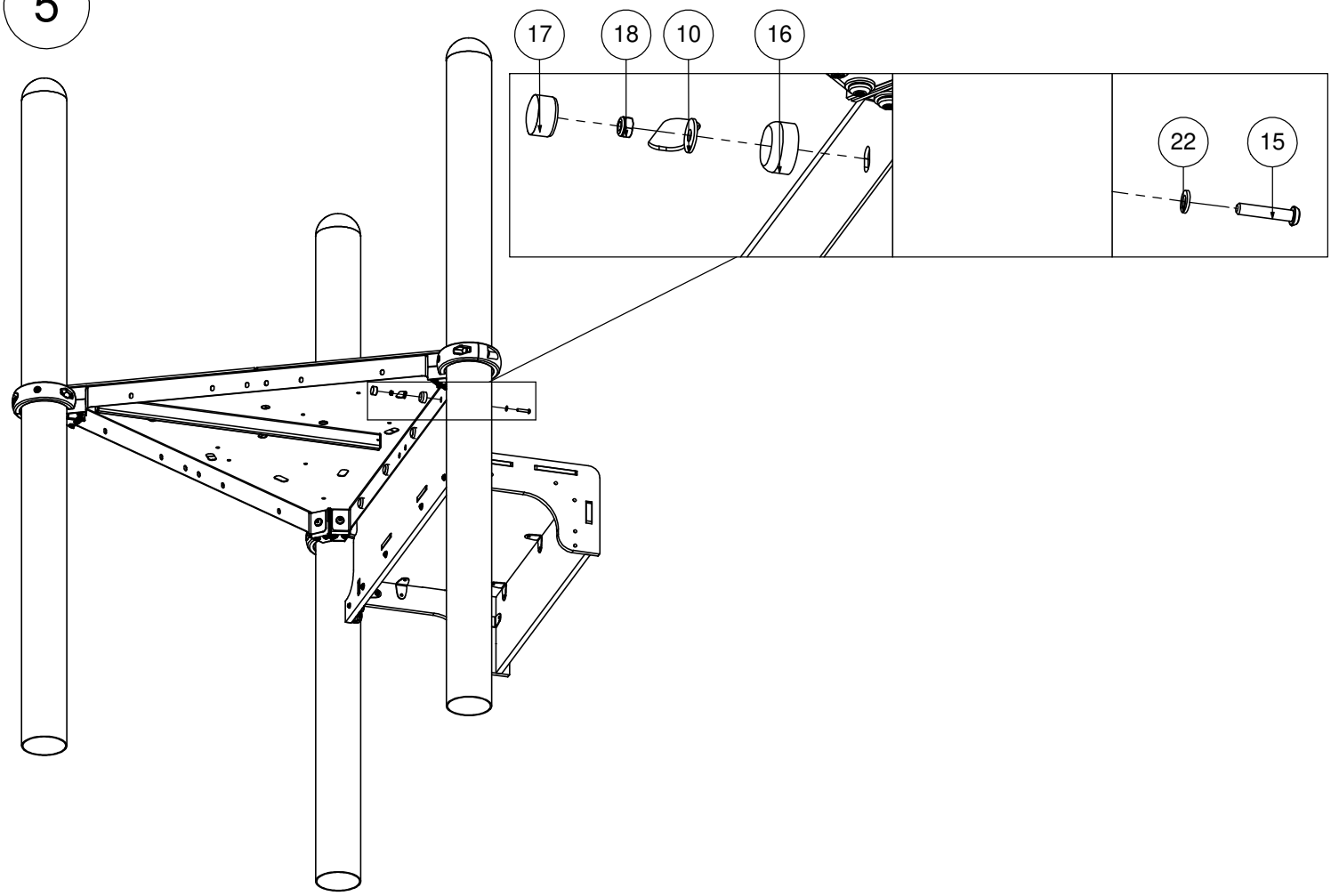
4.1



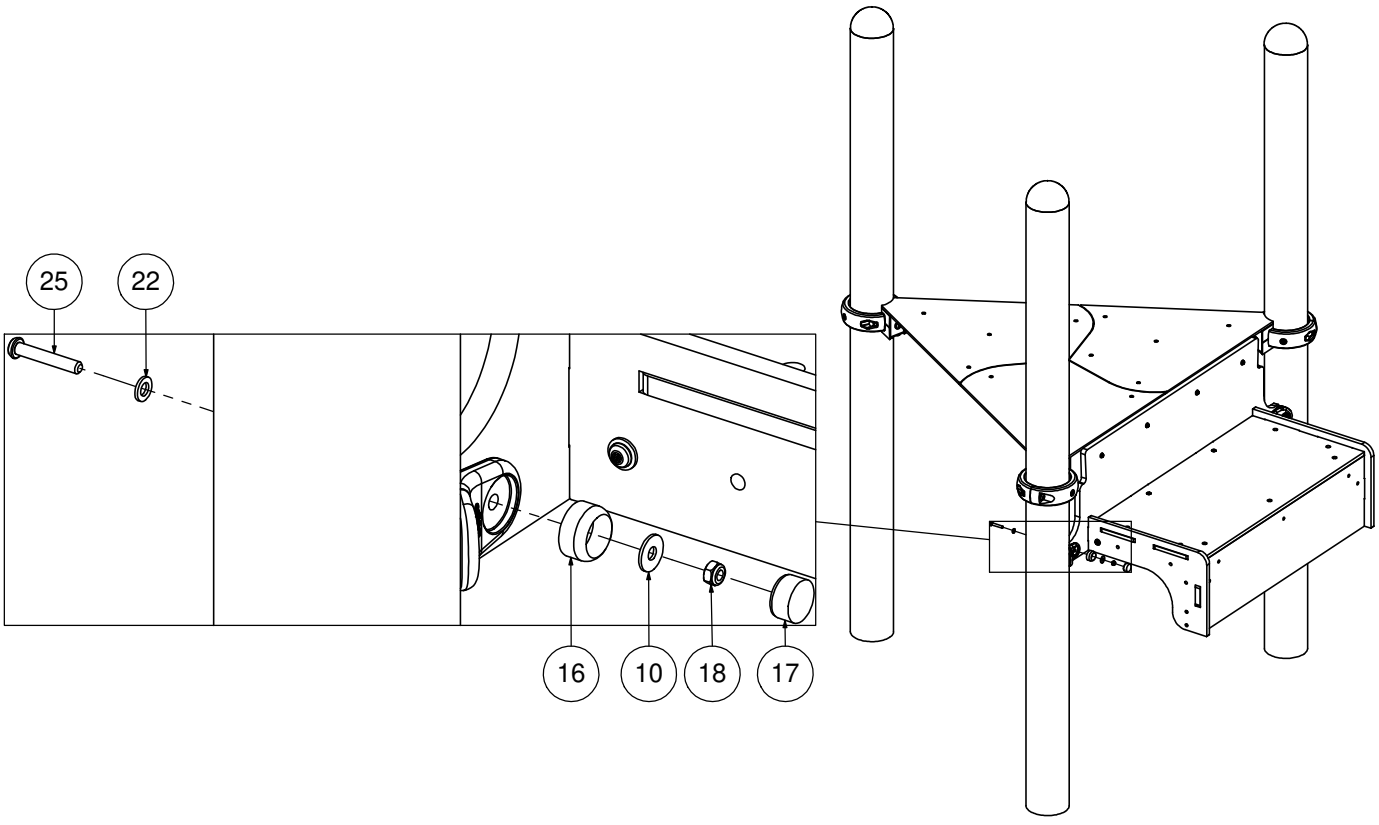
4.2



5



6

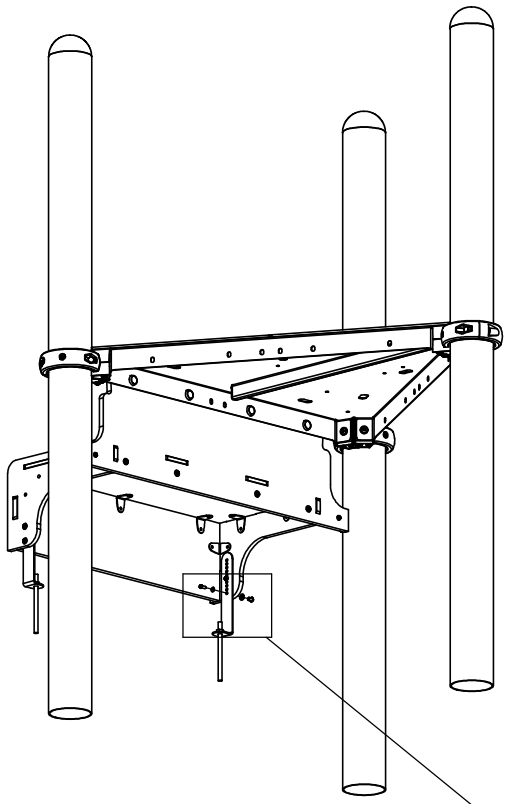


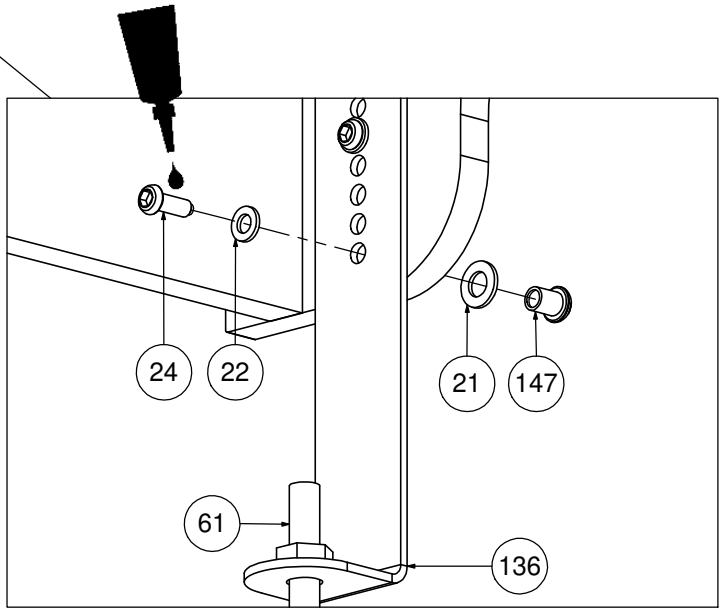
7 F5

Nr	Σ	Element		
21	4		DIN 125	8x16
22	4		DIN 125	6x12
24	4		ISO 7380	M6x16
61	2		-	KL105 (OC)
121	2		-	7100_5_A2_g3_G_v1
147	4		-	M6x10

7 F10

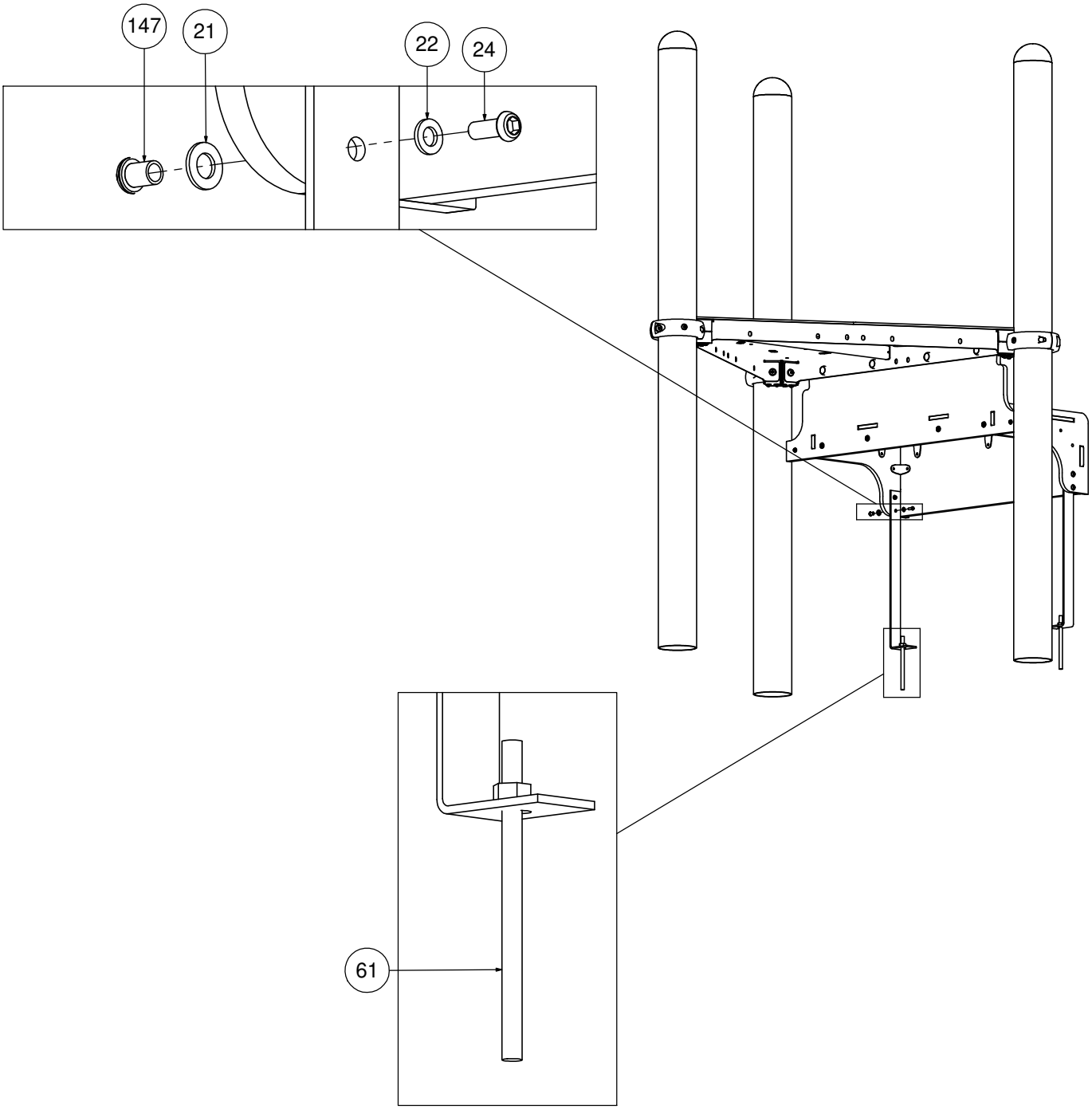
Nr	Σ	Element		
21	4		DIN 125	8x16
22	4		DIN 125	6x12
24	4		ISO 7380	M6x16
61	2		-	KL105 (OC)
136	2		-	1100_6_A2_g3_G_v2
147	4		-	M6x10





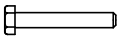
7 F40

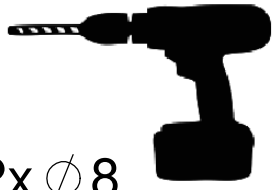
Nr	Σ	Element		
21	4		DIN 125	8x16
22	4		DIN 125	6x12
24	4		ISO 7380	M6x16
61	2		-	KL105 (OC)
147	4		-	M6x10



7 N

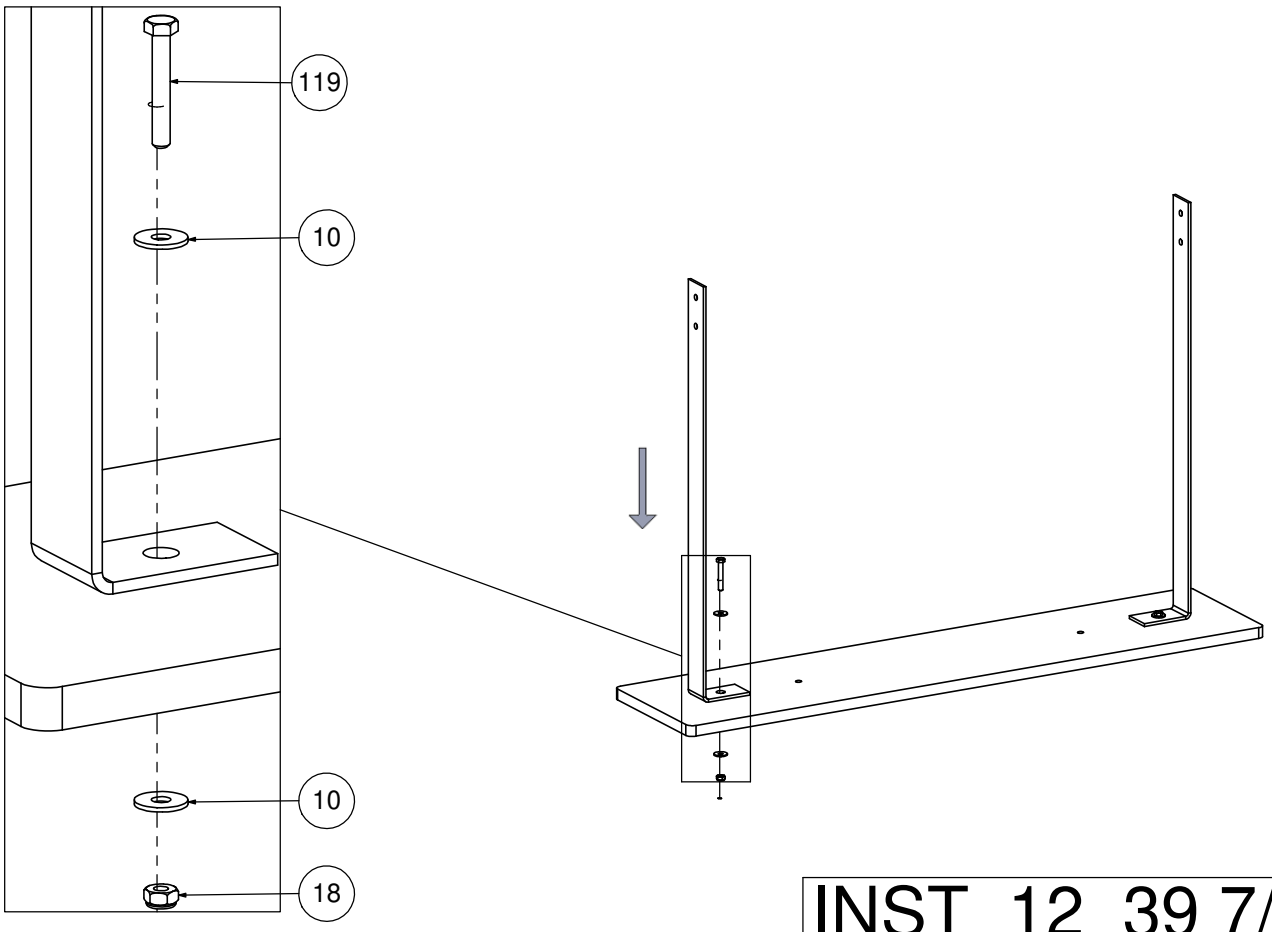
7.1

Nr	Σ	Element		
10	4		DIN 9021	6x18
18	2		DIN 985	M6 (OC)
21	4		DIN 125	8x16
22	4		DIN 125	6x12
24	4		ISO 7380	M6x16
119	2		DIN 933	M6x40
147	4		-	M6x10

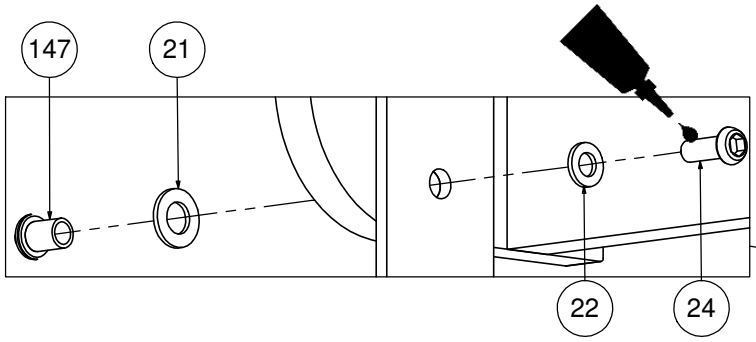


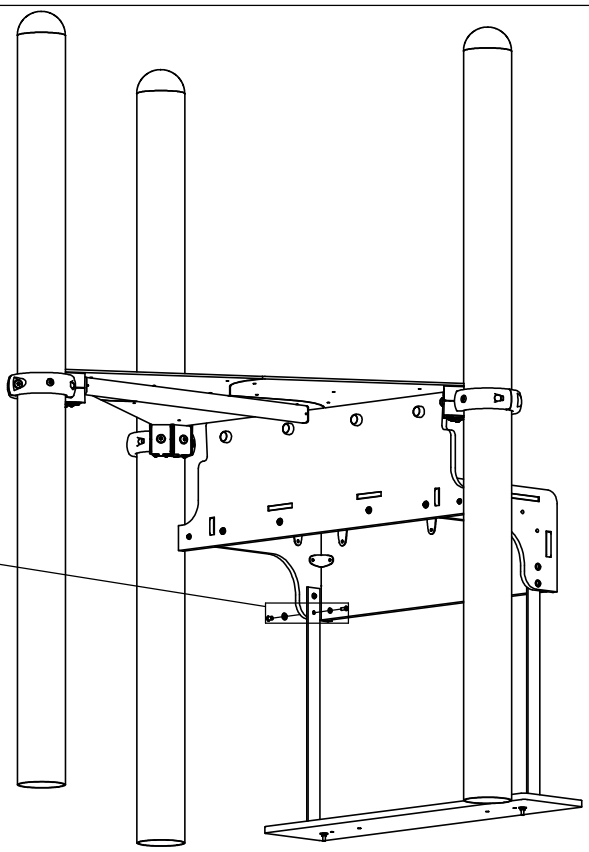
2x ∅8

7.2

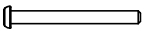


7.3

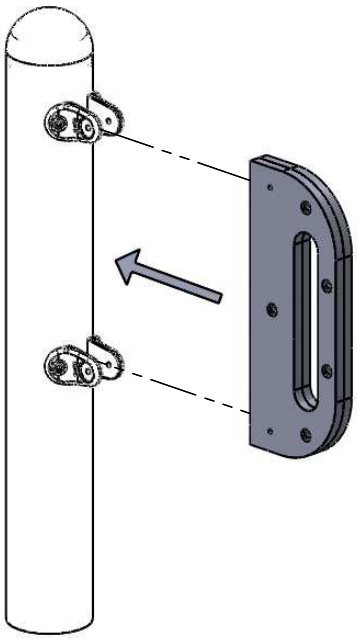


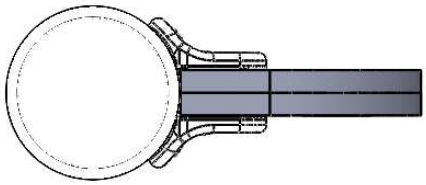


INST_12_55

Nr	Σ	Element		
10	4		DIN 9021	6x18
16	4		-	K1_d21_B
17	4		-	Z1_d21_B
18	2		DIN 985	M6
101	2		ISO 7380	M6x60

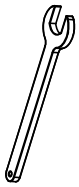
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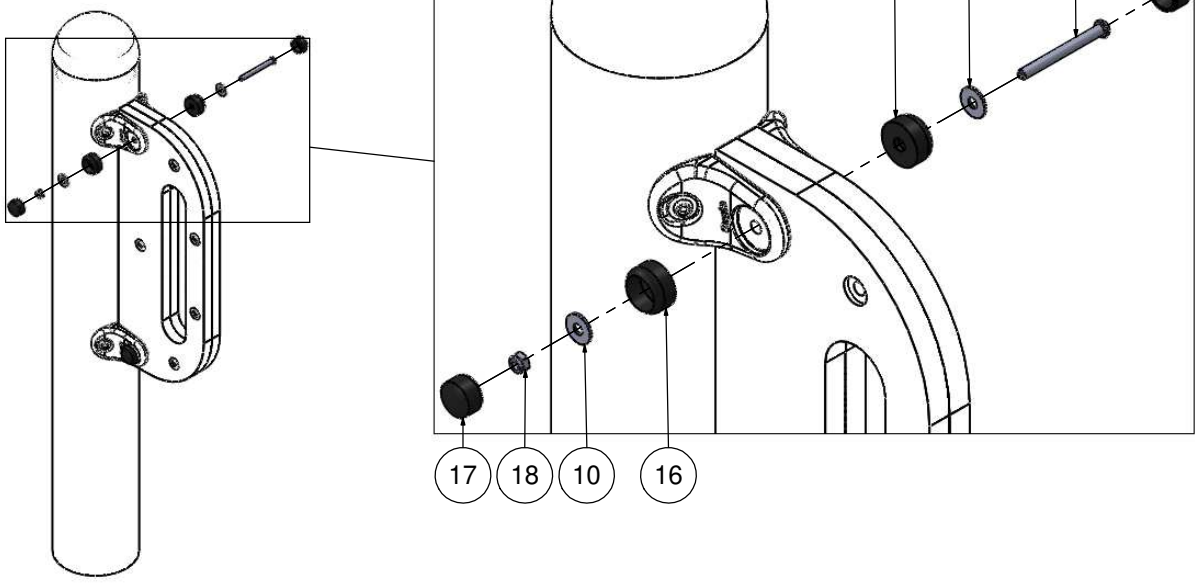


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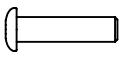


Nr. 10

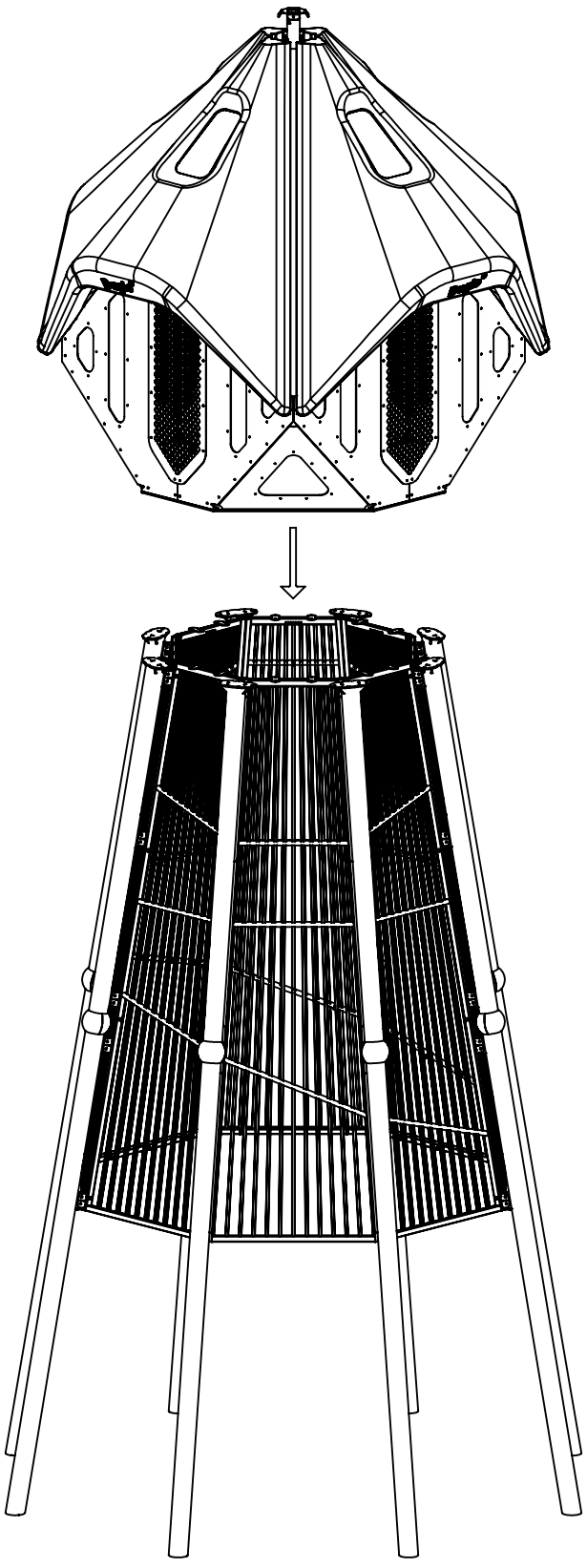
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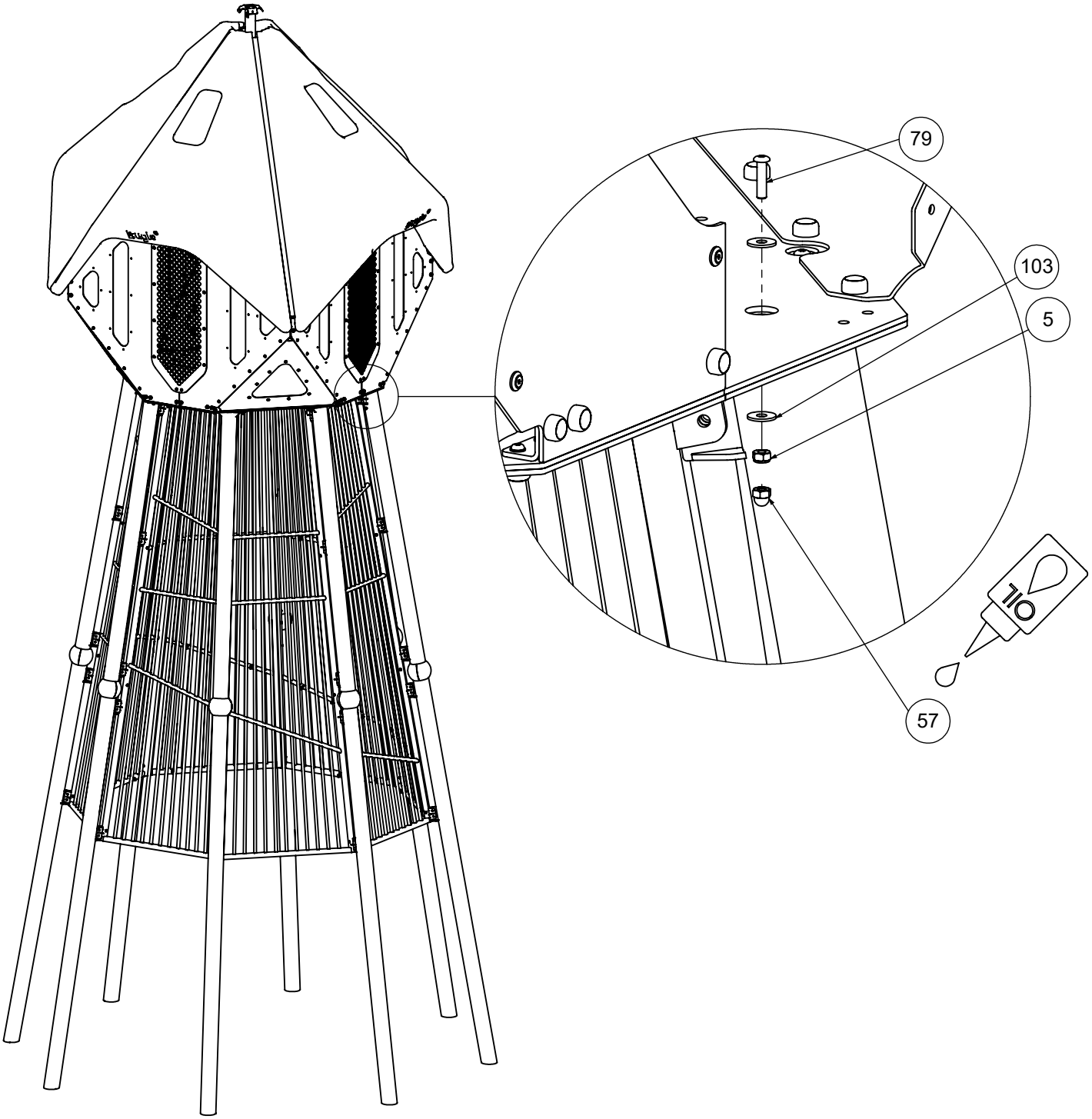
INST_14_36

Nr	Σ	Element		
5	16		DIN 985	M10
44	32		ISO 7380	M10x25
57	48		DIN 1587	M10
79	16		ISO 7380	M10x40
103	96		DIN 9021	10x30
579	1		-	OIL

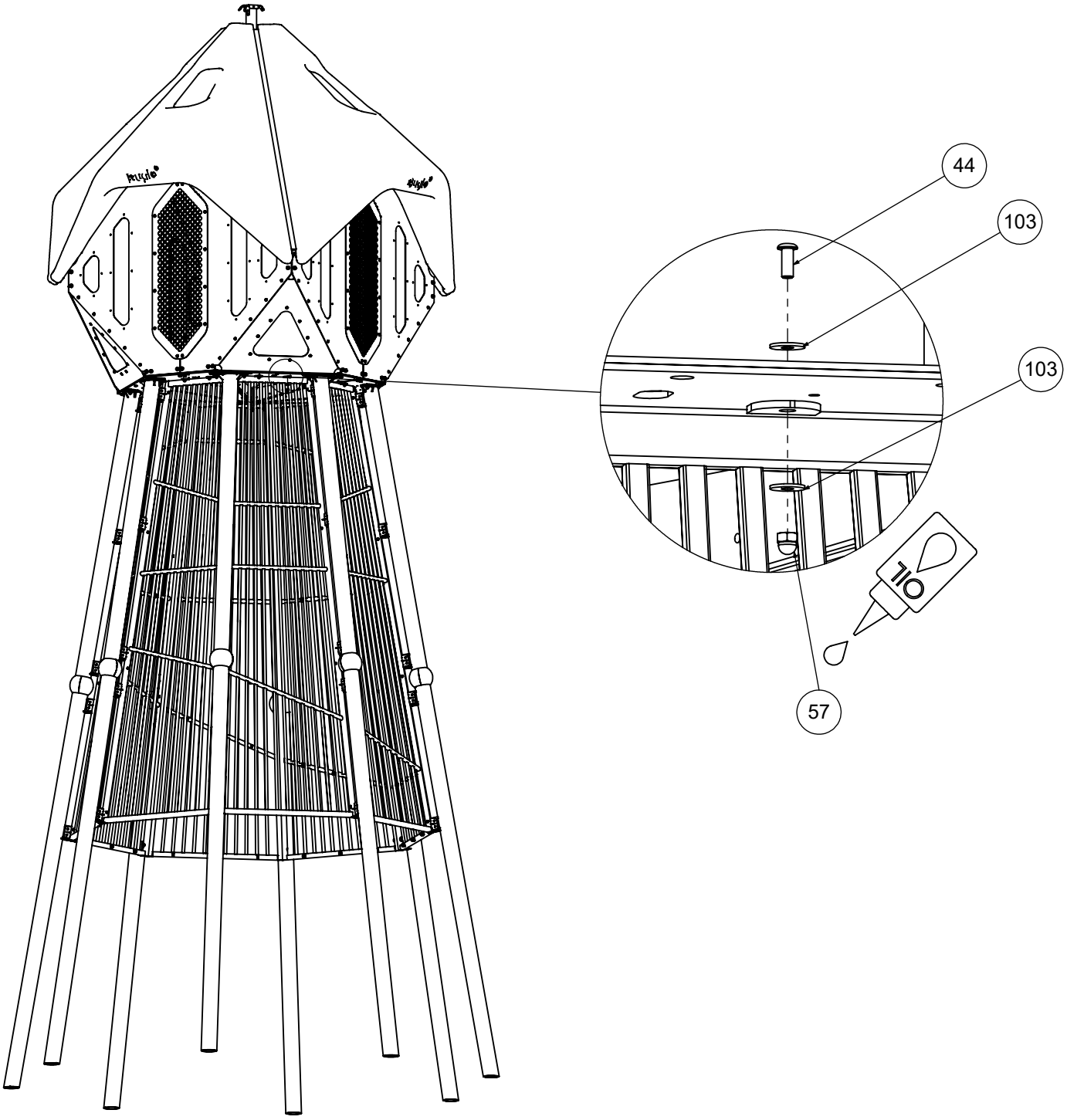
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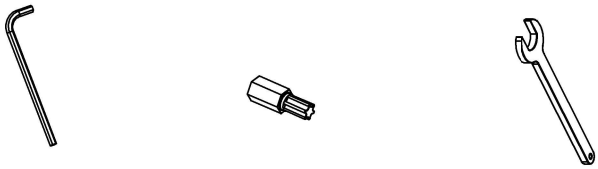
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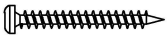
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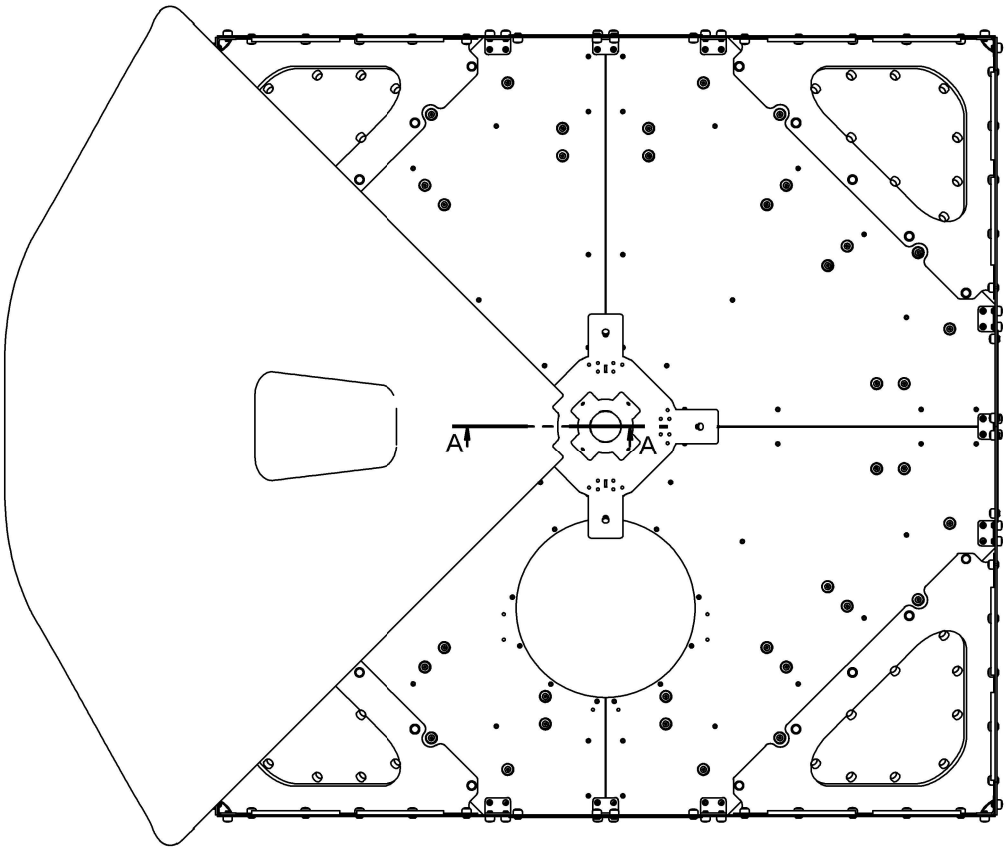
INST_14_37



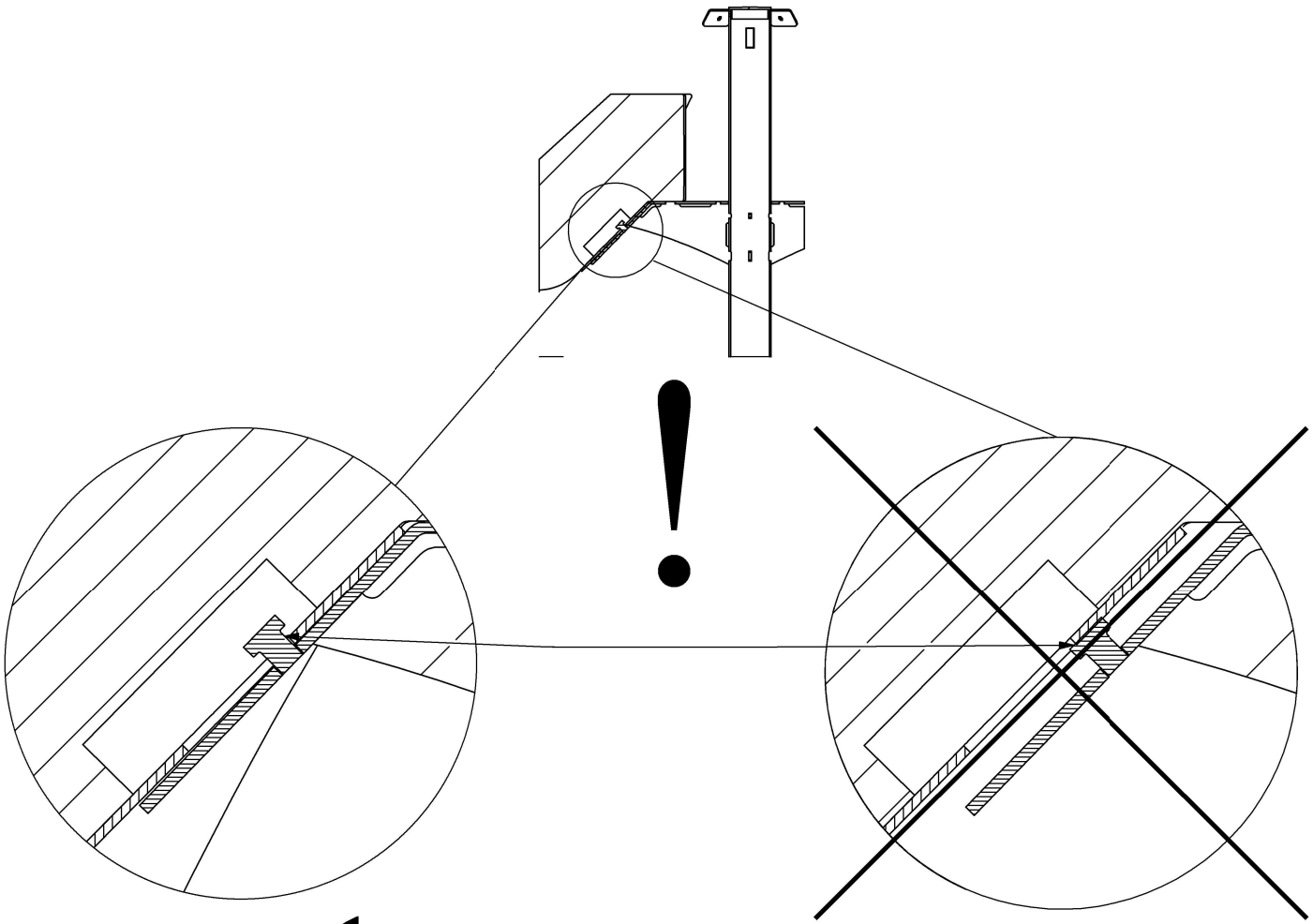
Nr. 4 Nr. T25, T20 Nr. 10

Nr	Σ	Element		
1	100		-	S6x60
2	100		-	W6x60
10	8		DIN 9021	6x18
13	4		ISO 7380	M6x20
16	4		-	K1_d21_B
17	4		-	Z1_d21_B
18	4		DIN 985	M6 (OC)
19	4		ISO 7380	M6x40
22	80		DIN 125	6x12
24	12		ISO 7380	M6x16
26	64		-	S4x40
518	1		-	ZASP_88,9

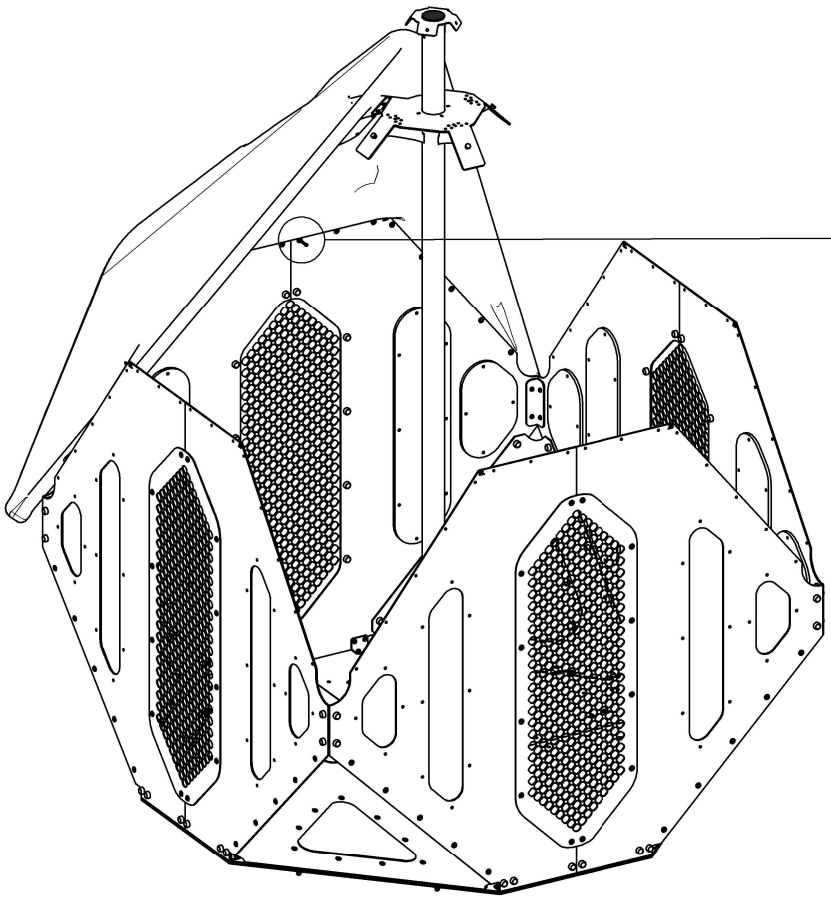
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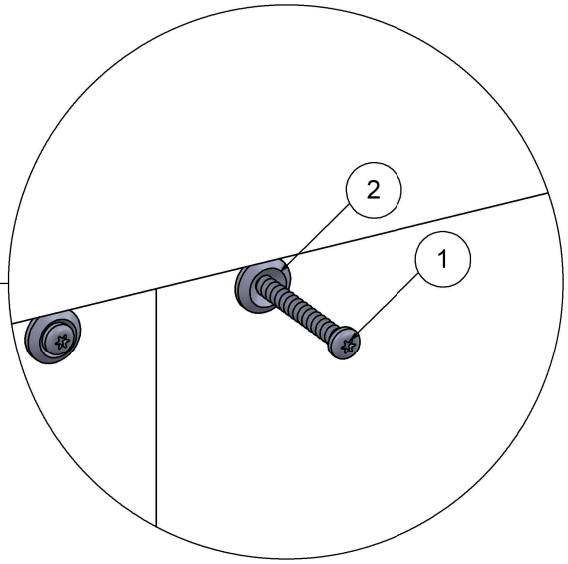


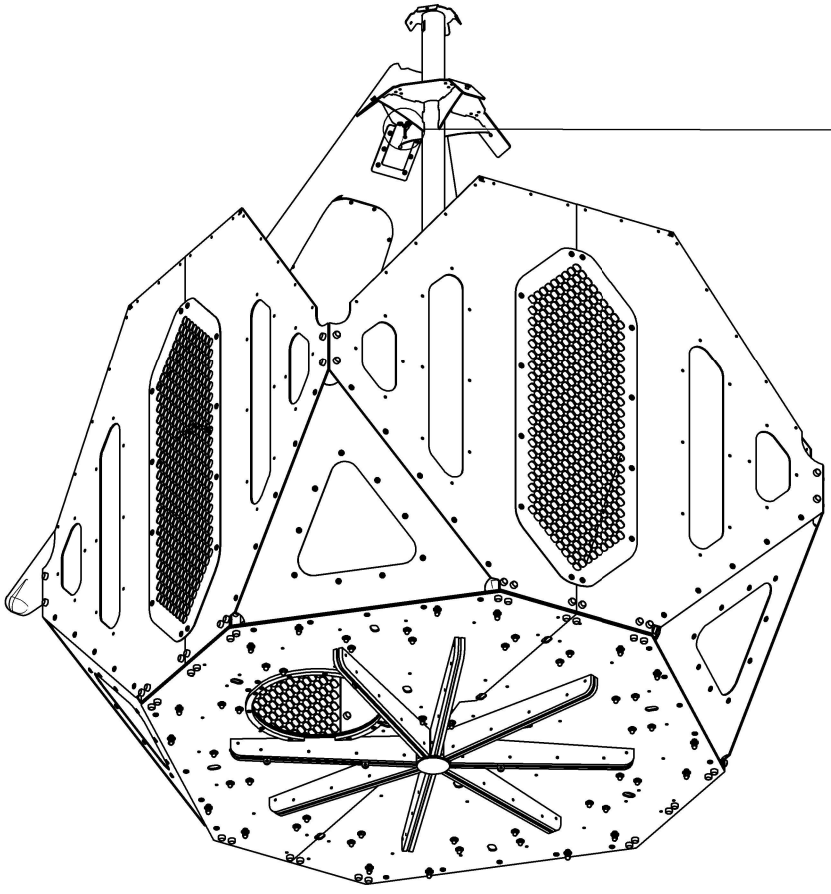
A-A (1 : 15)

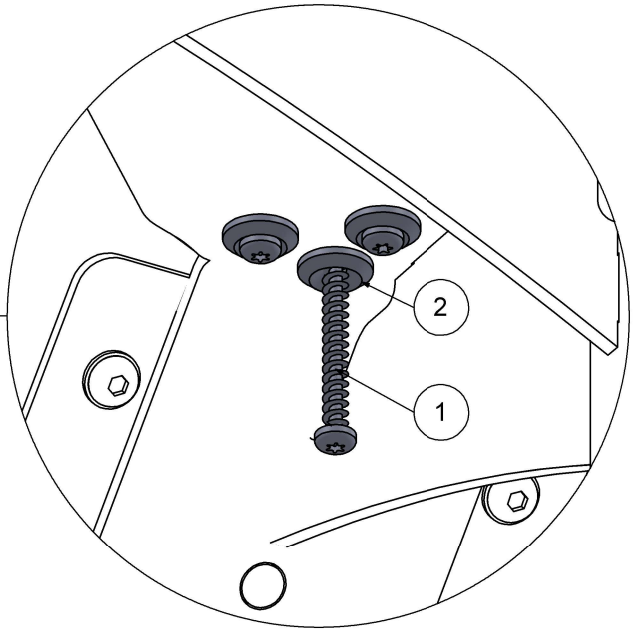


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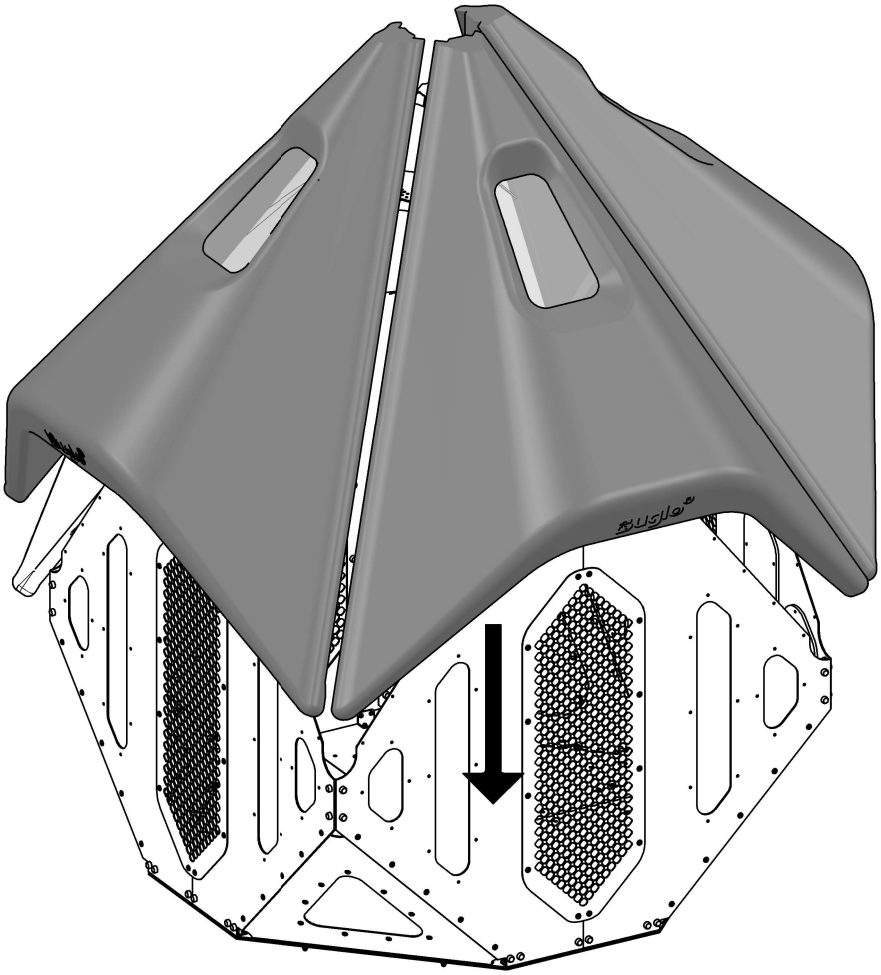




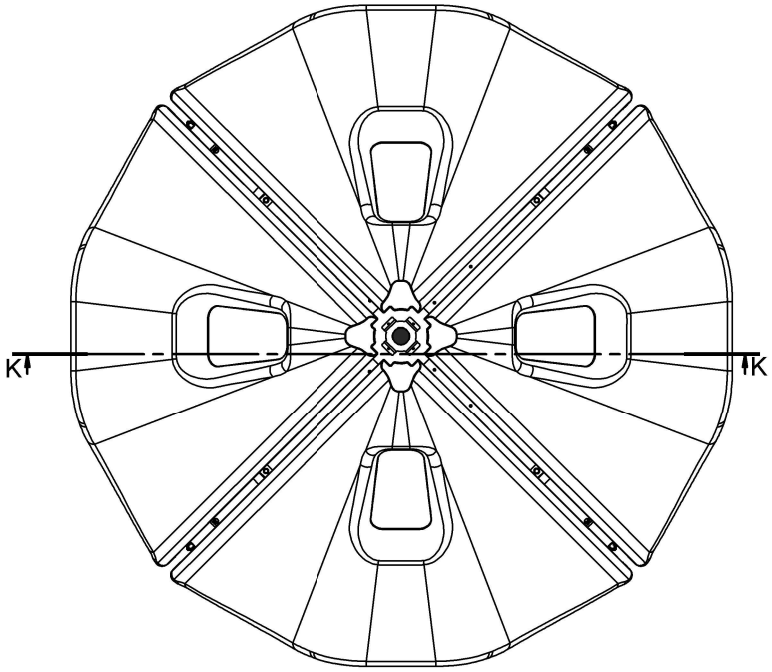




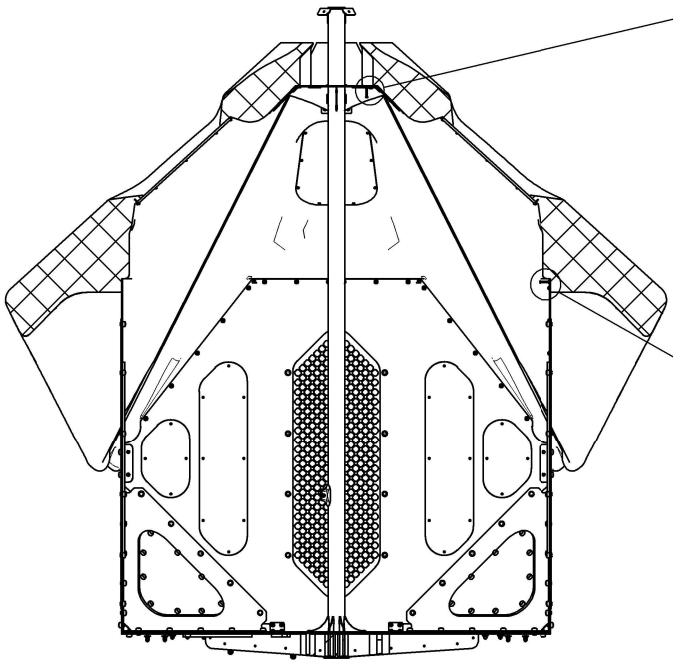
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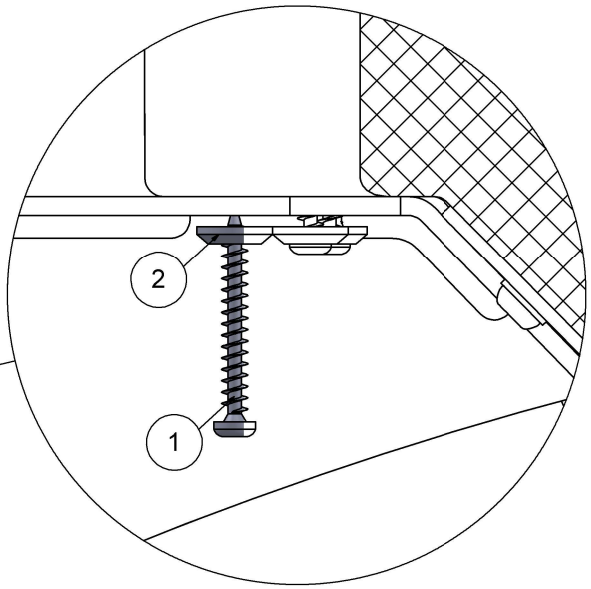


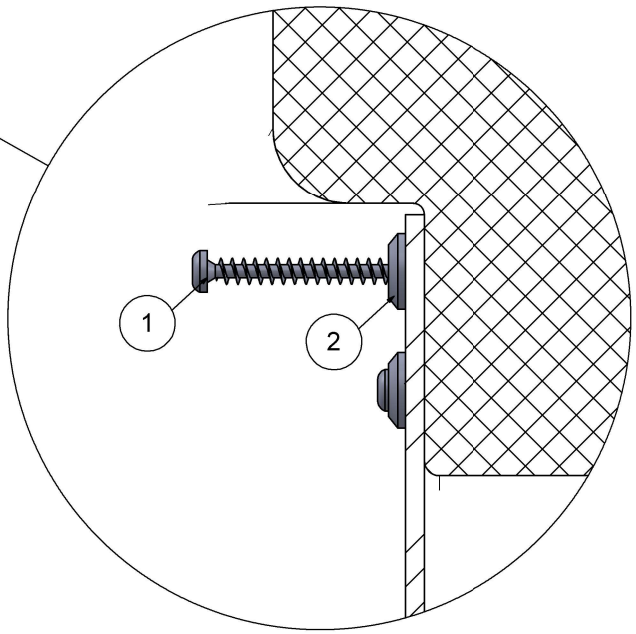
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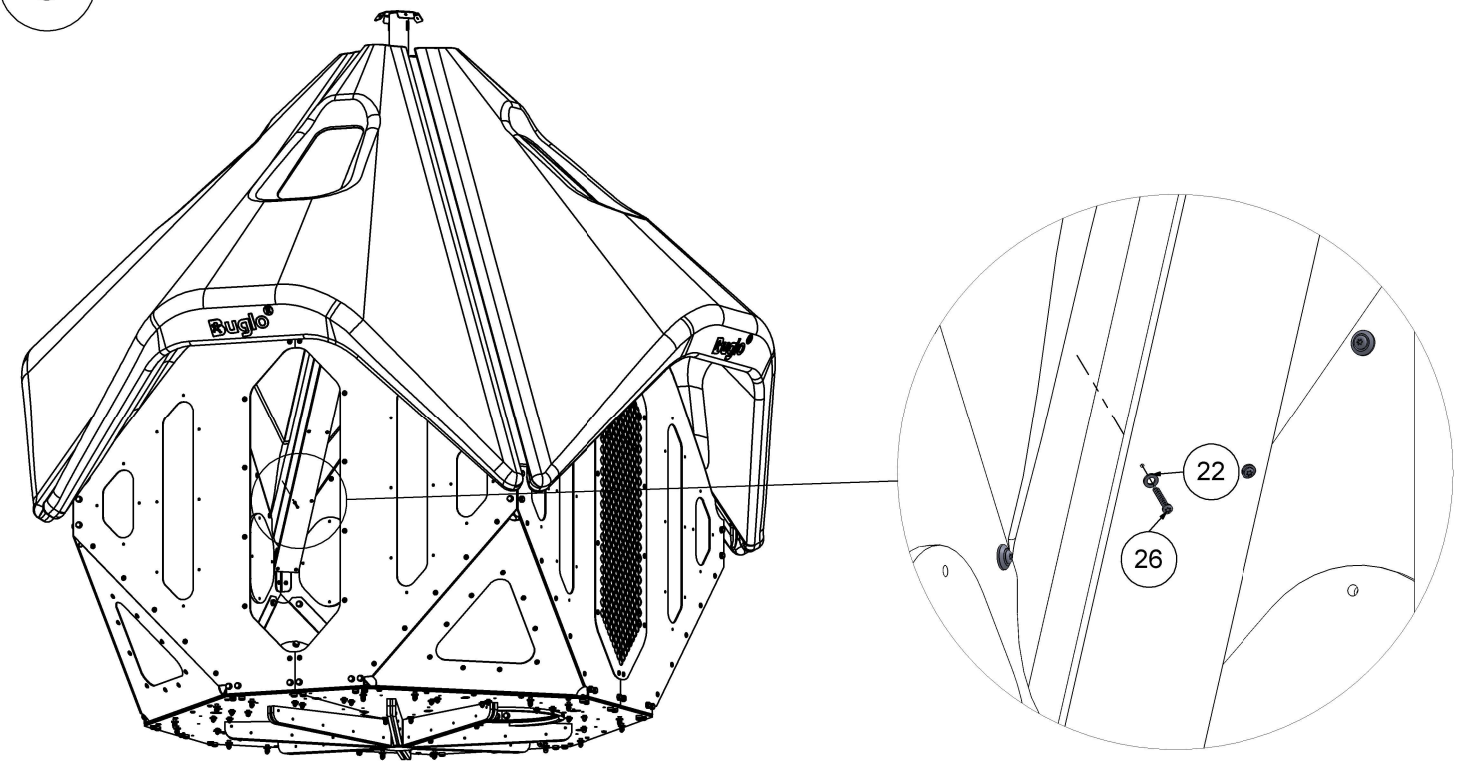
K-K (1 : 40)



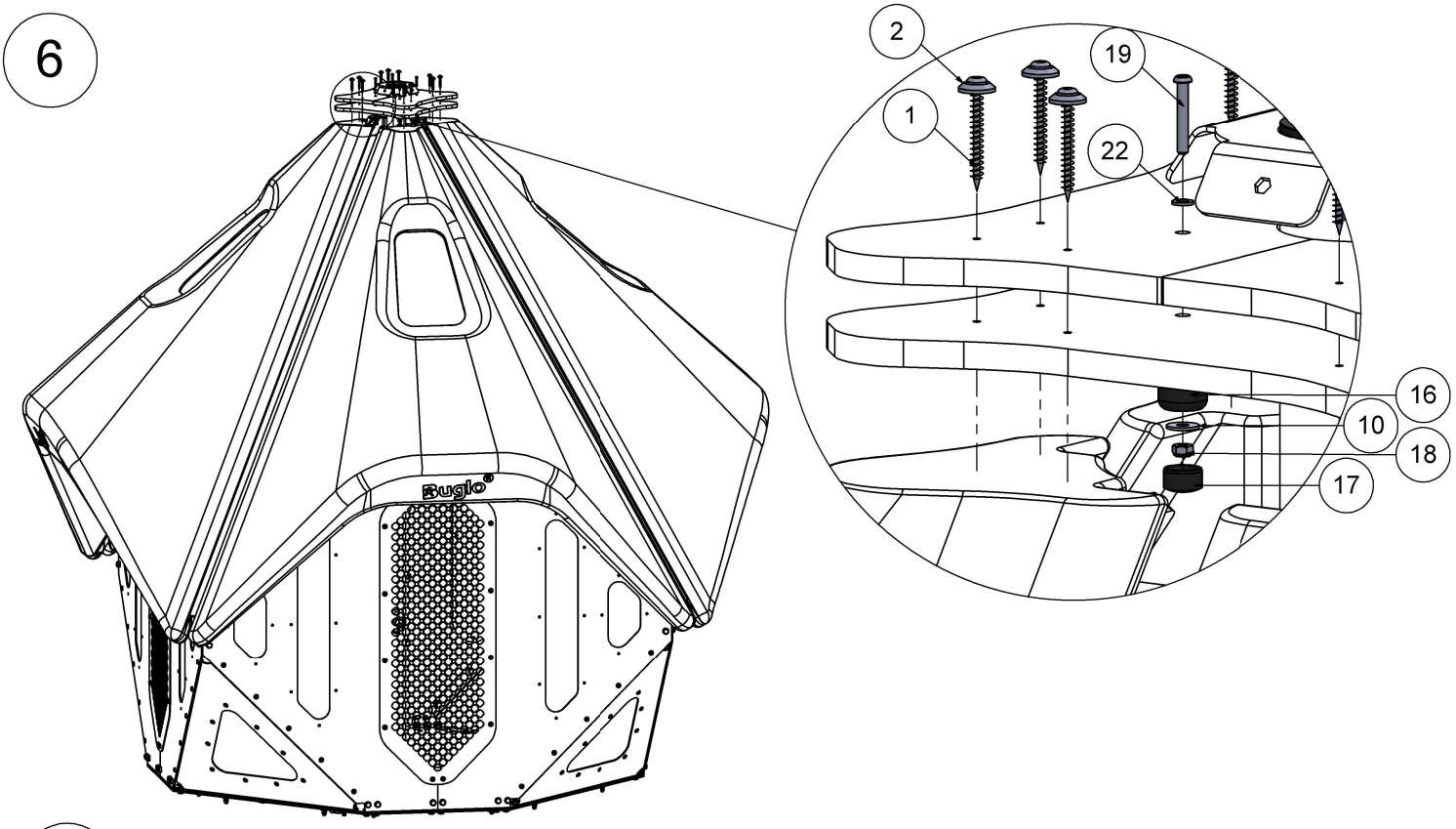




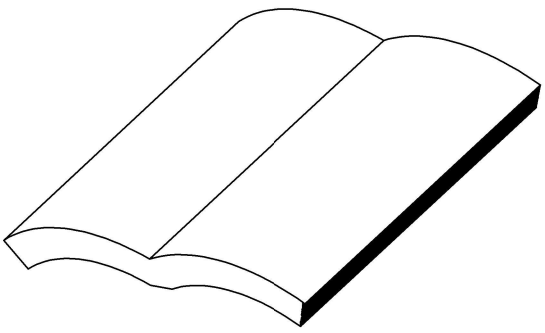
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6



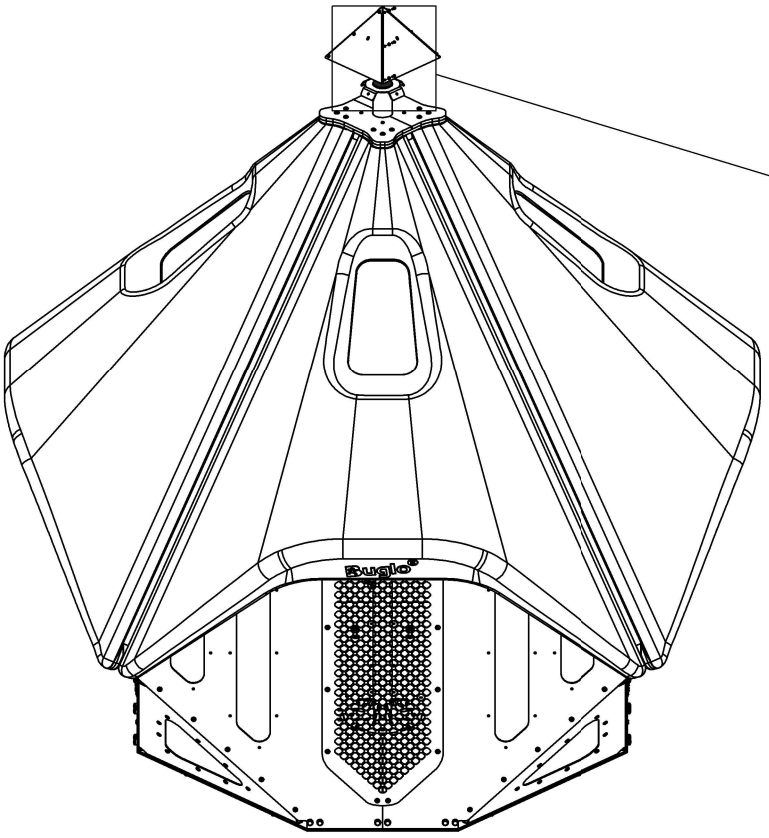
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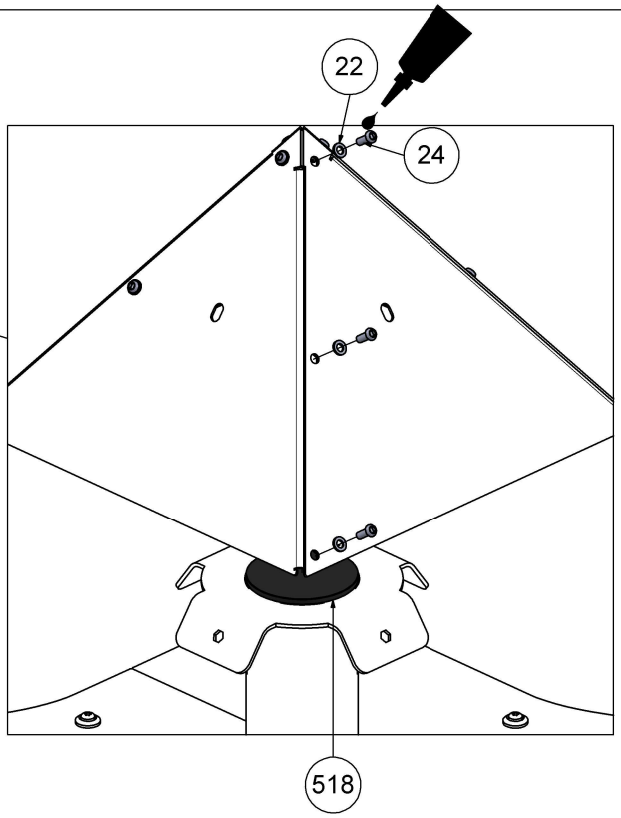


14....

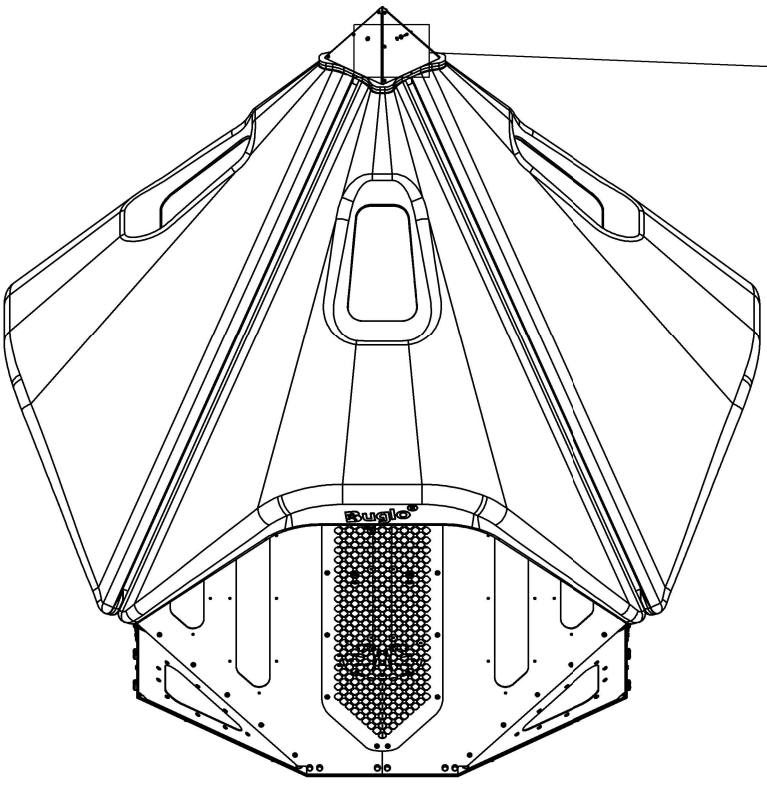
INST_14_37 6/7

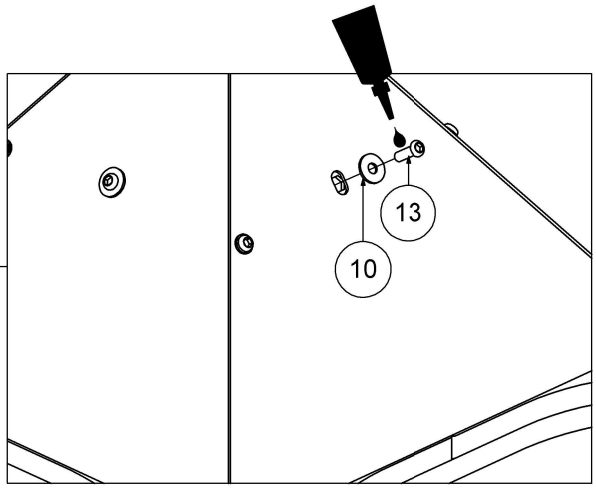
8





9





INST_14_39A



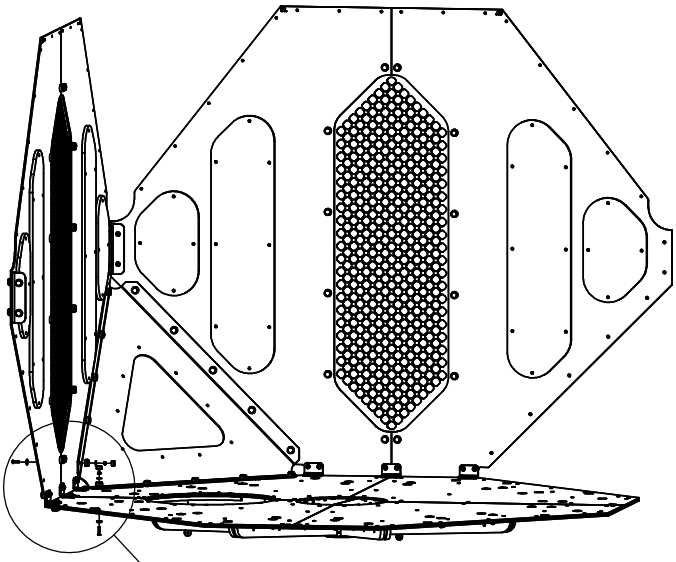
Nr. 4

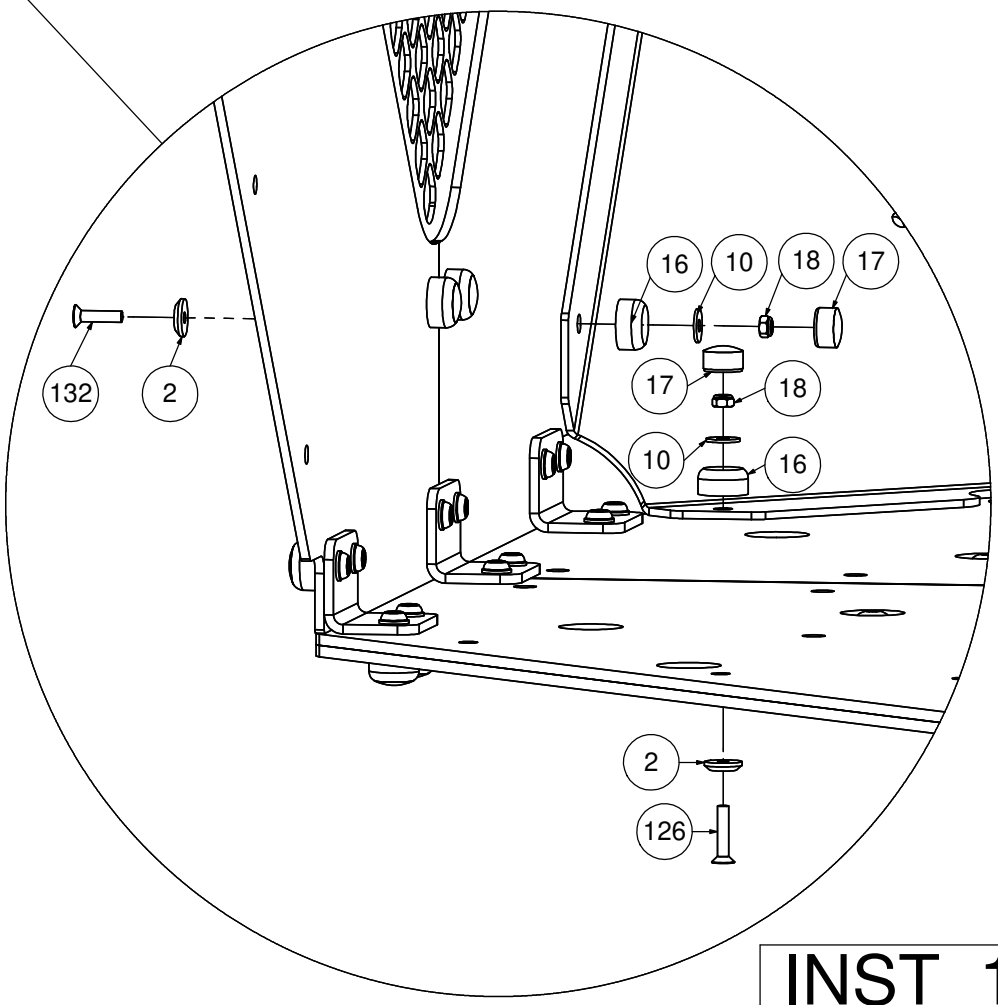


Nr. 10

Nr	Σ	Element		
2	15		-	W6x60
10	15		DIN 9021	6x18
16	15		-	K1_d21_B
17	15		-	Z1_d21_B
18	15		DIN 985	M6 (OC)
126	5		DIN 7991	M6x30
132	10		DIN 7991	M6x25

1





INST_14_39A 1/1

INST_14_39B



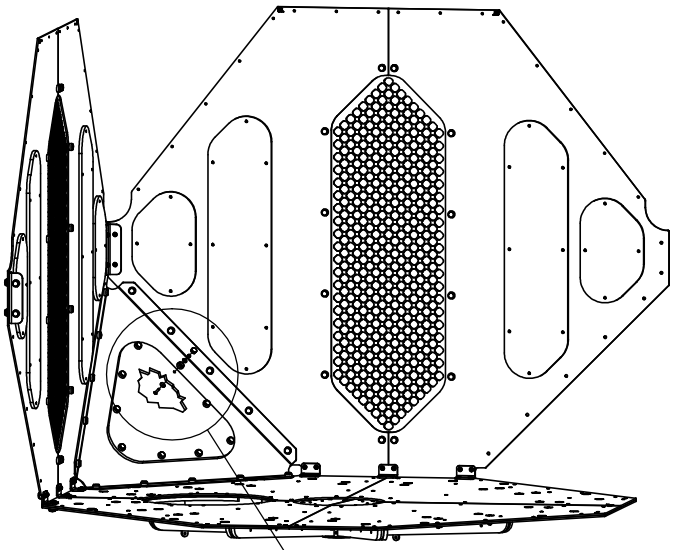
Nr. 4

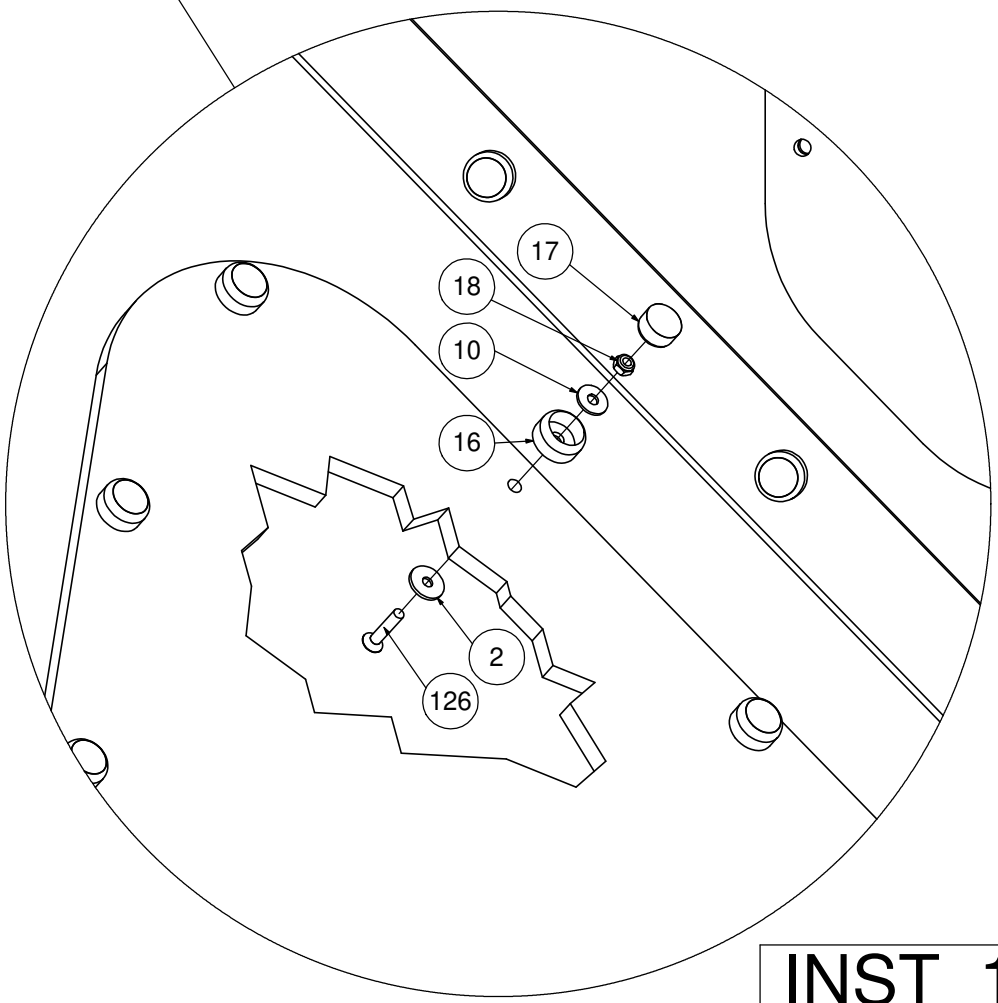


Nr. 10

Nr	Σ	Element		
2	9		-	W6x60
10	9		DIN 9021	6x18
16	9		-	K1_d21_B
17	9		-	Z1_d21_B
18	9		DIN 985	M6 (OC)
126	9		DIN 7991	M6x30

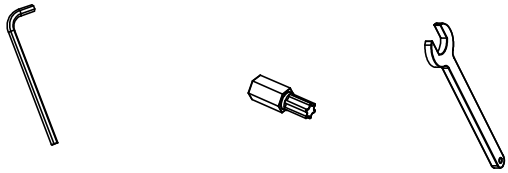
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INST_14_39B 1/1

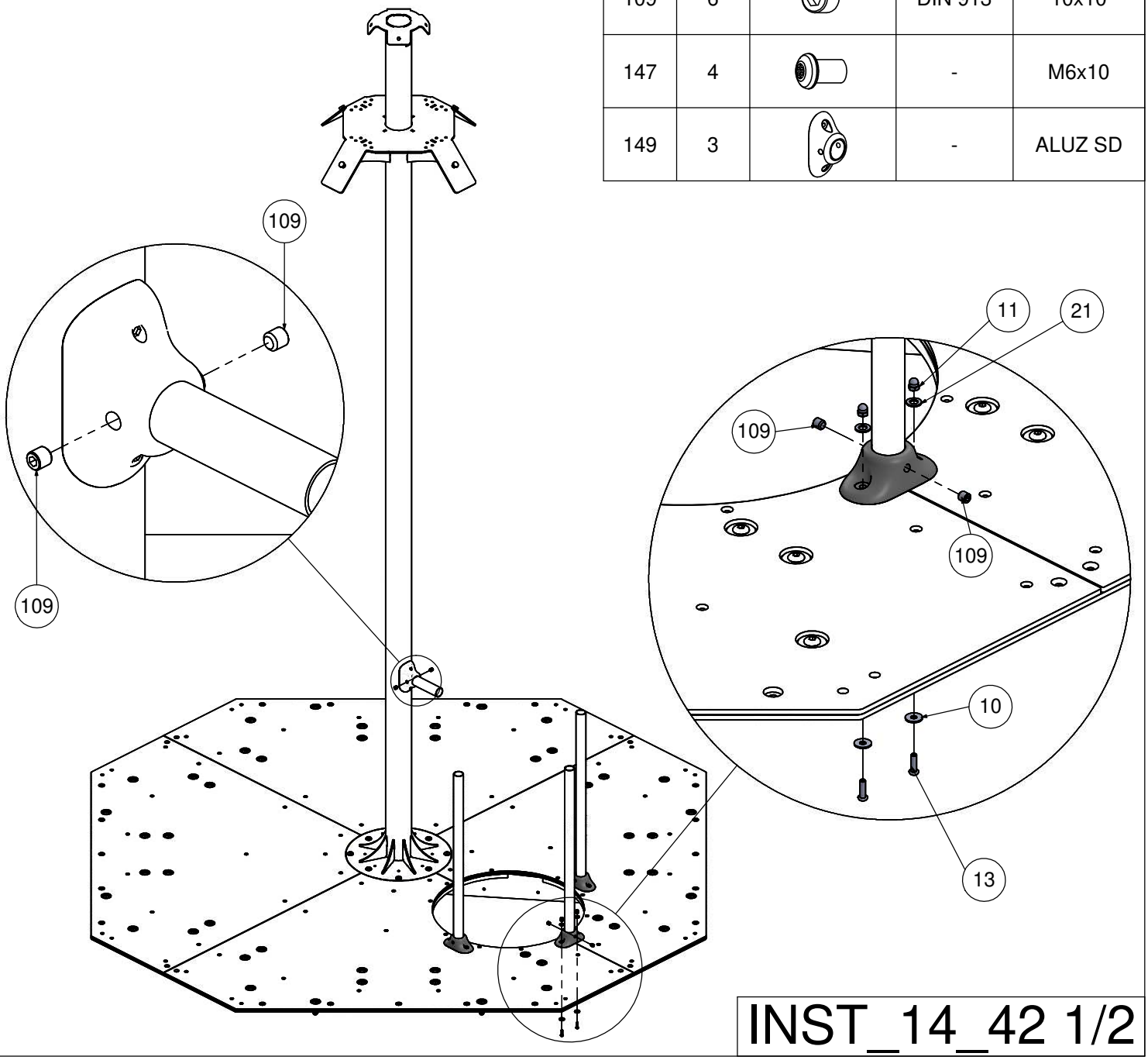
INST_14_42



Nr. 4, 5 Nr. T30 Nr. 13

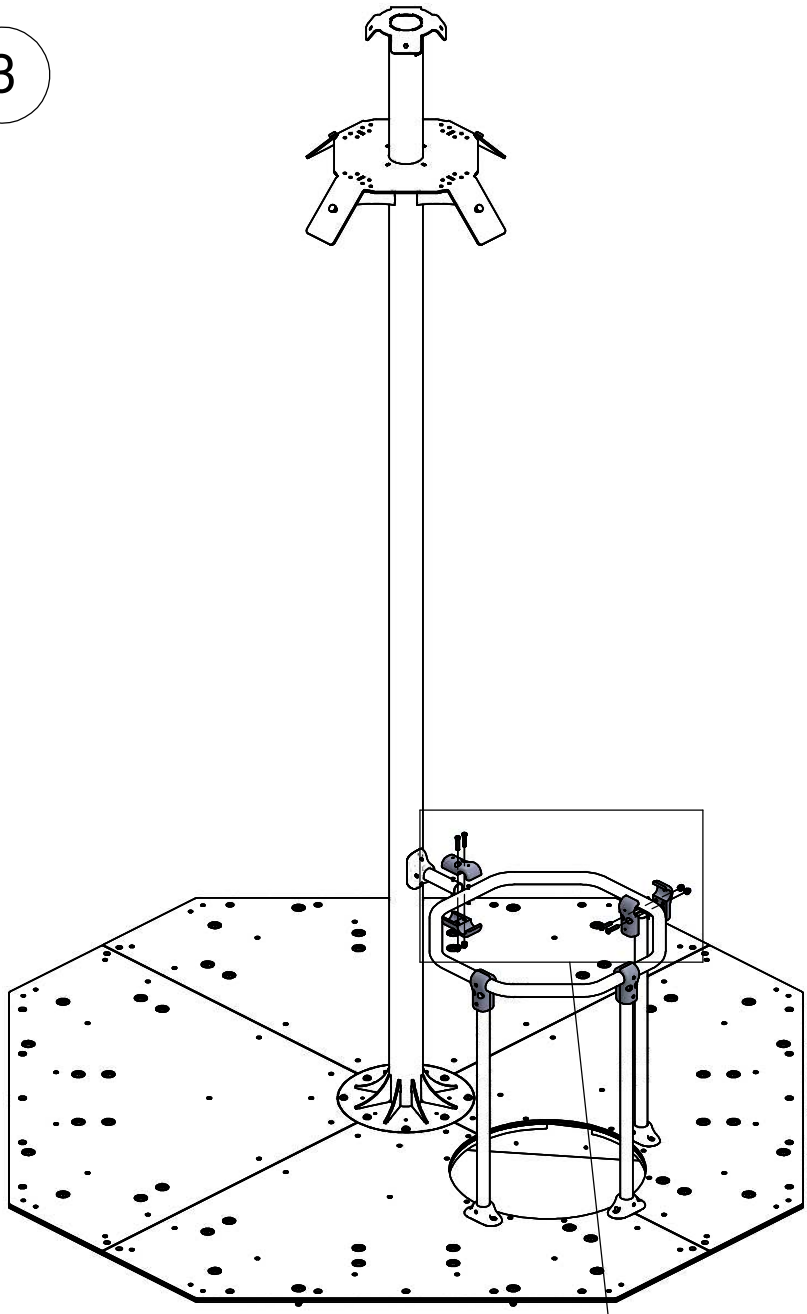
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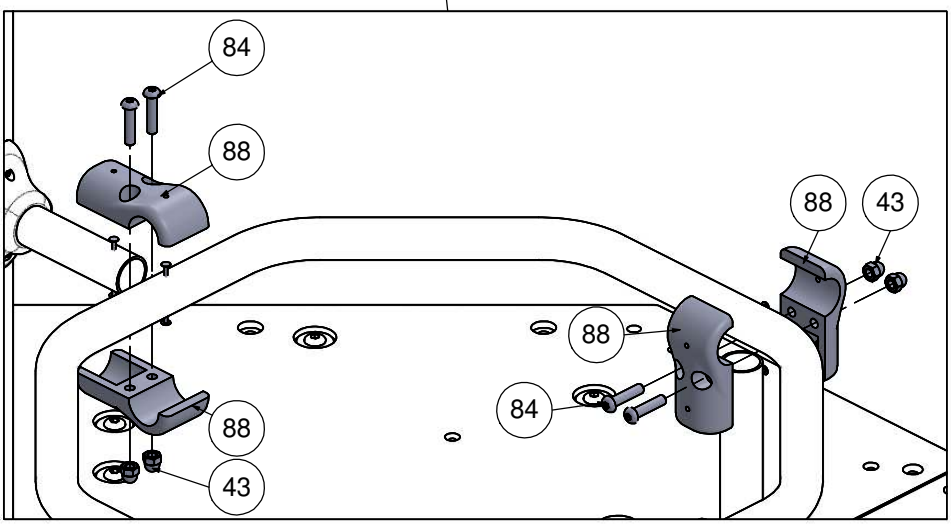
Nr	Σ	Element		
10	2		DIN 9021	6x18
11	2		DIN 1587	M6
13	6		ISO 7380	M6x20
21	10		DIN 125	8x16
43	8		DIN 1587	M8
84	8		ISO 7380	M8x35
88	4		-	ALUZ RR
109	6		DIN 913	10x10
147	4		-	M6x10
149	3		-	ALUZ SD



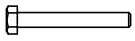
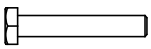
INST_14_42

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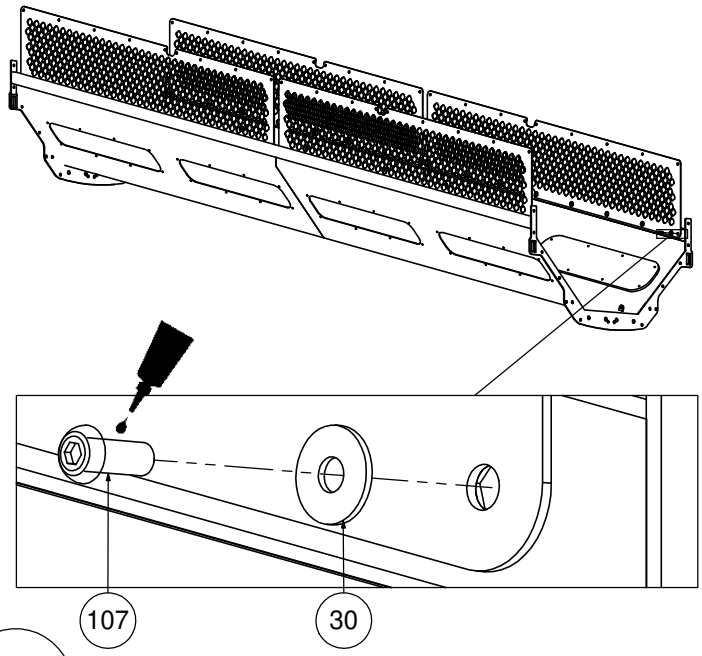




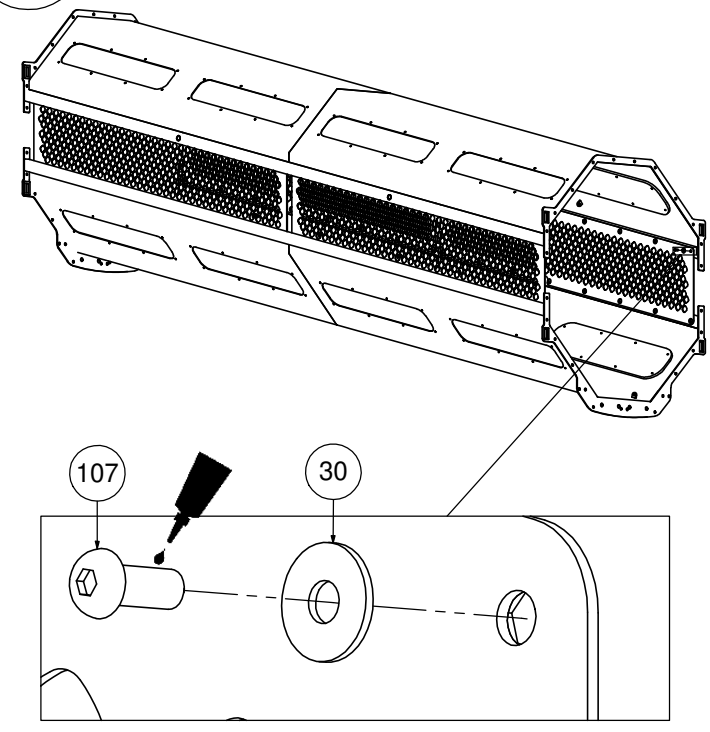
INST_14_46

Nr	Σ	Element		
3	8		-	K2_d30_B
5	4		DIN 985	M10
6	8		-	Z2_d30_B
9	40		ISO 7380	M6x25
10	80		DIN 9021	6x18
16	48		-	K1_d21_B
17	48		-	Z1_d21_B
18	40		DIN 985	M6 (OC)
21	20		DIN 125	8x16
30	72		DIN 9021	8x24
31	12		DIN 985	M8 (OC)
32	4		DIN 931	M8x60
43	4		DIN 1587	M8
45	8		ISO 7380	M8x30
58	1		-	LOCTITE
74	1		DIN 985	M12 (OC)
103	8		DIN 9021	10x30
107	64		ISO 7380	M8x20
215	4		DIN 7991	M8x30
466	4		DIN 933	M10x60

1

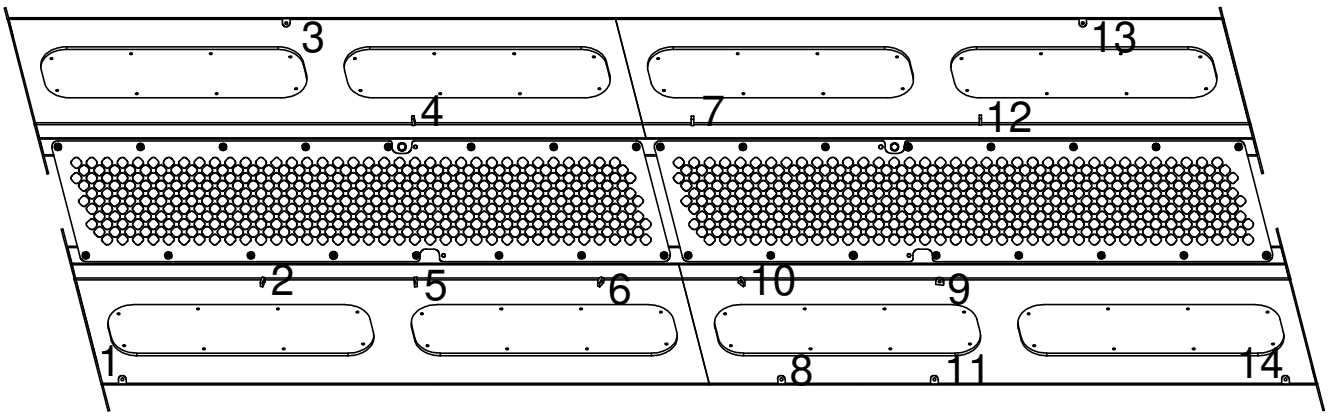


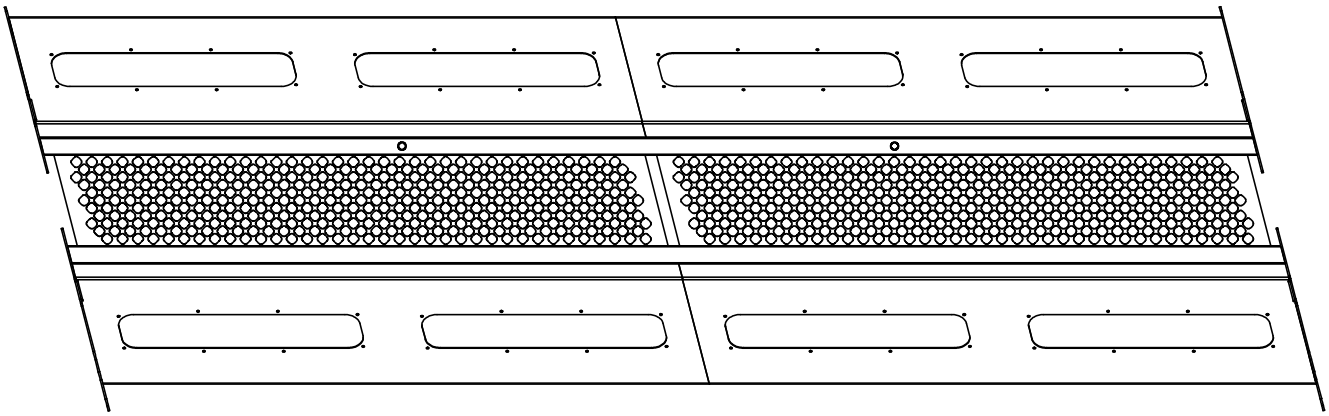
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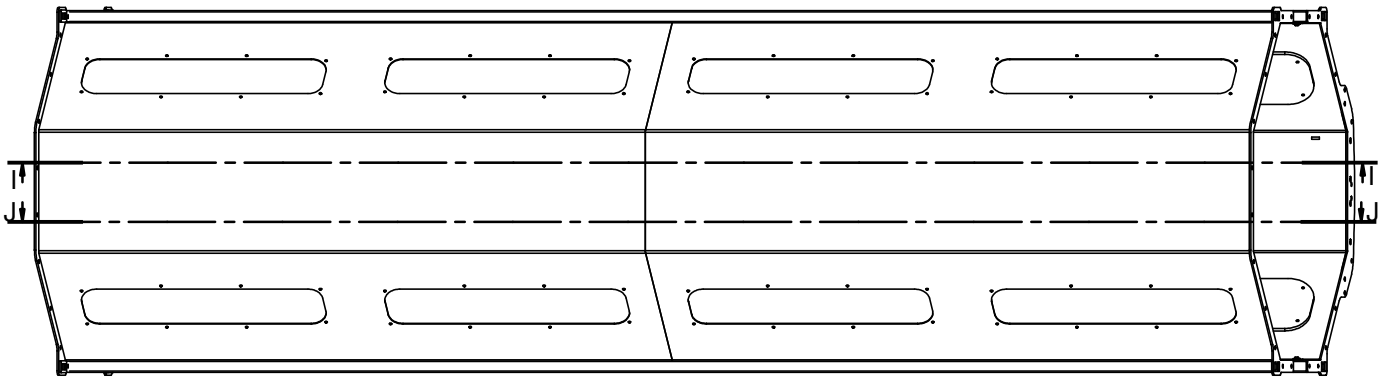


3

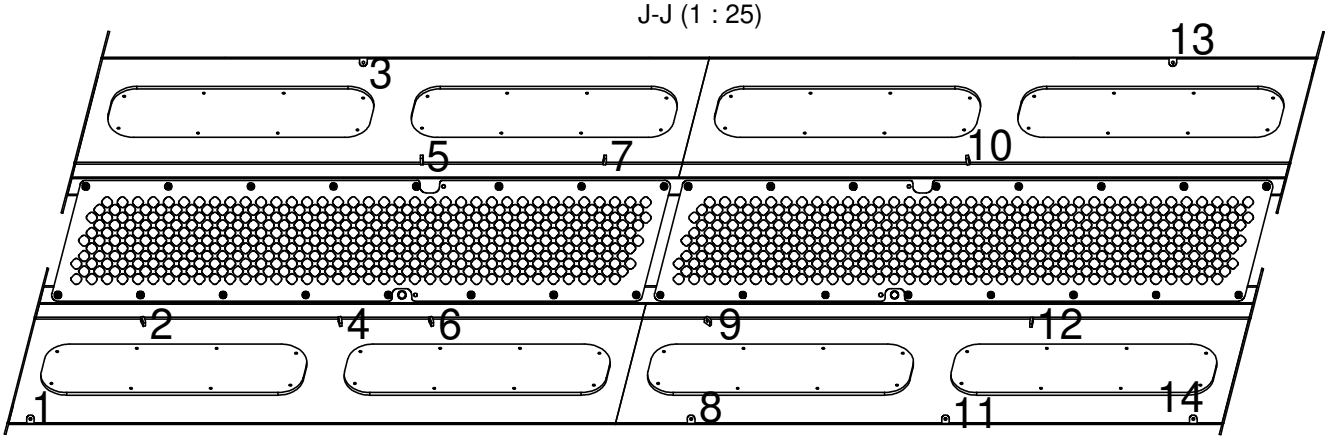
I-I (1 : 25)



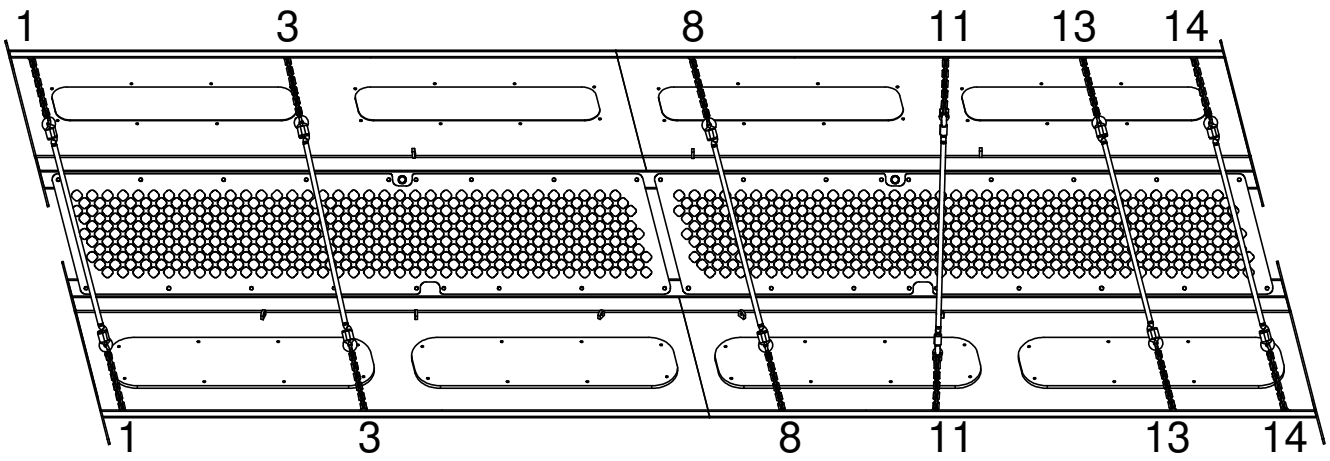


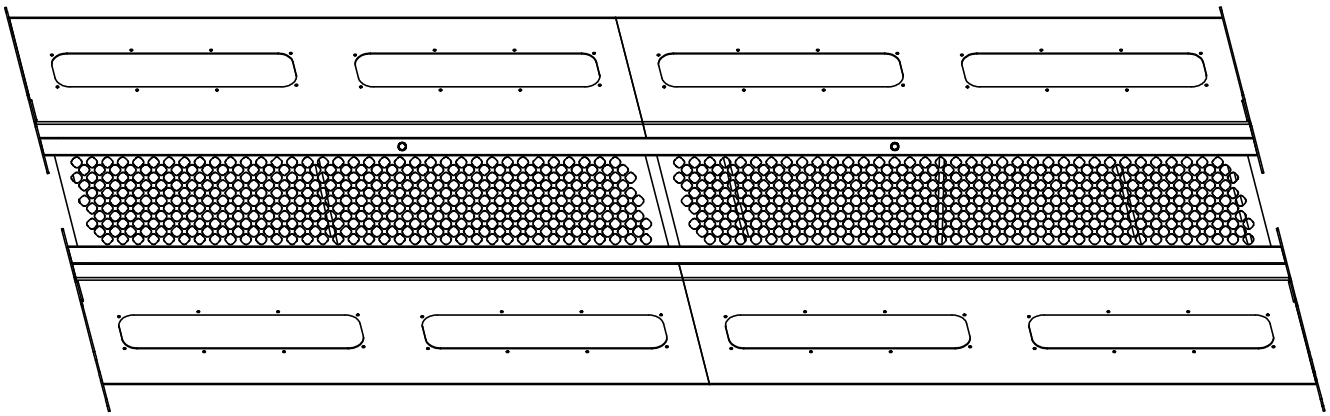


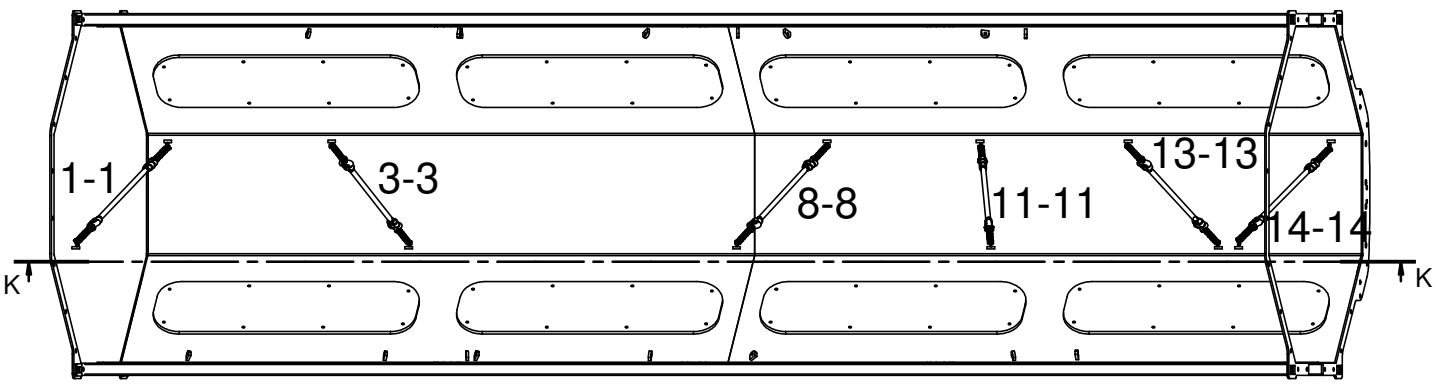
J-J (1 : 25)

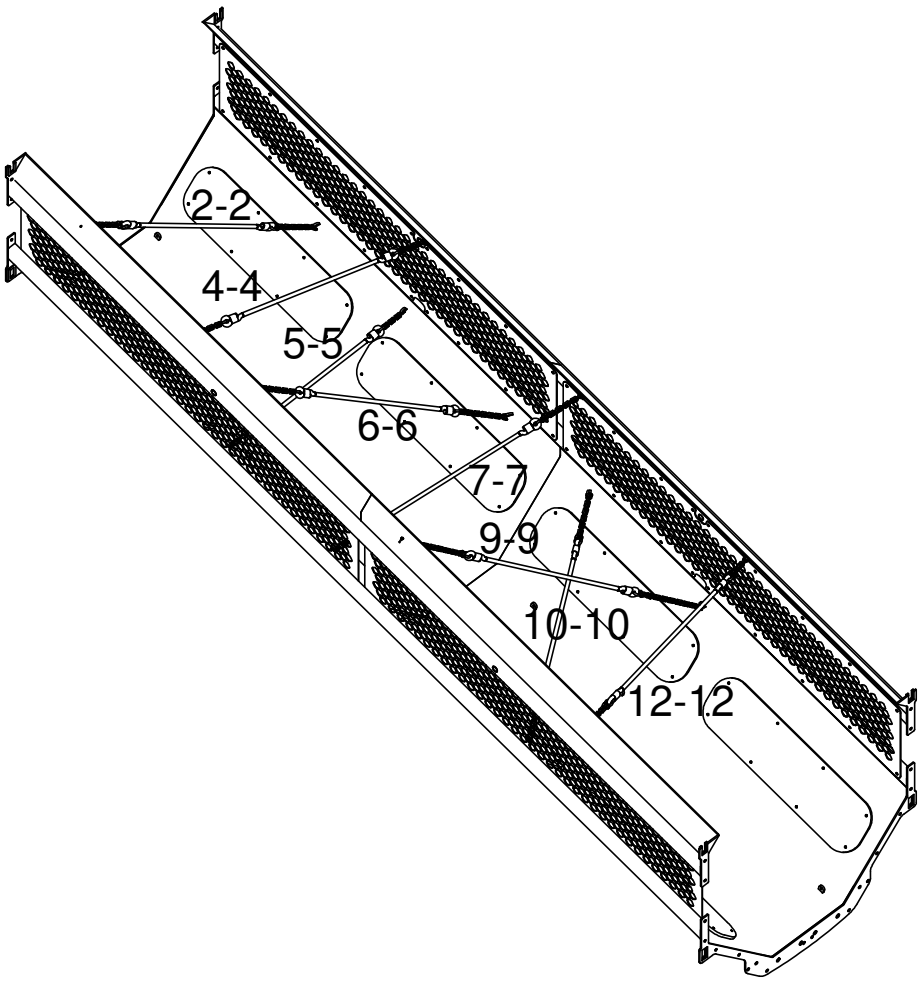


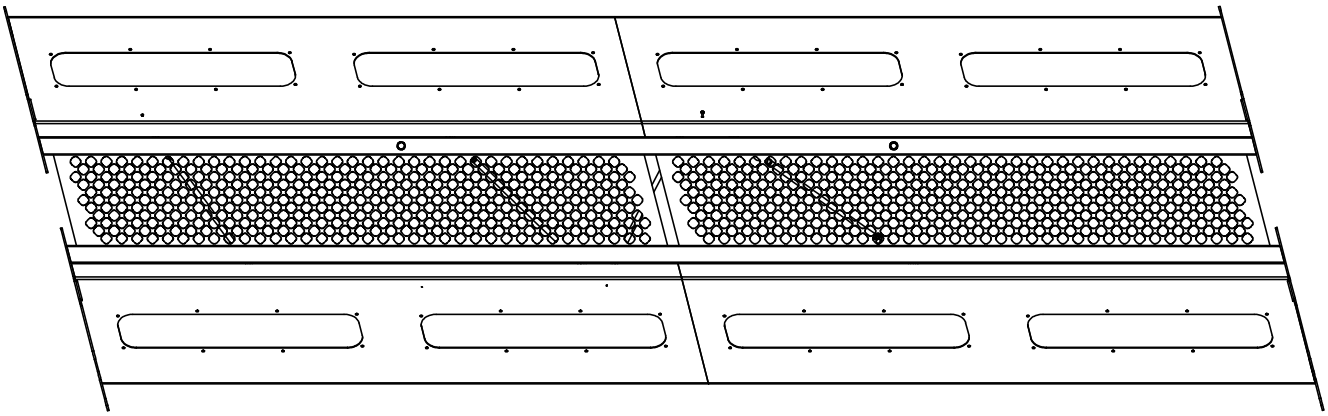
K-K (1 : 25)

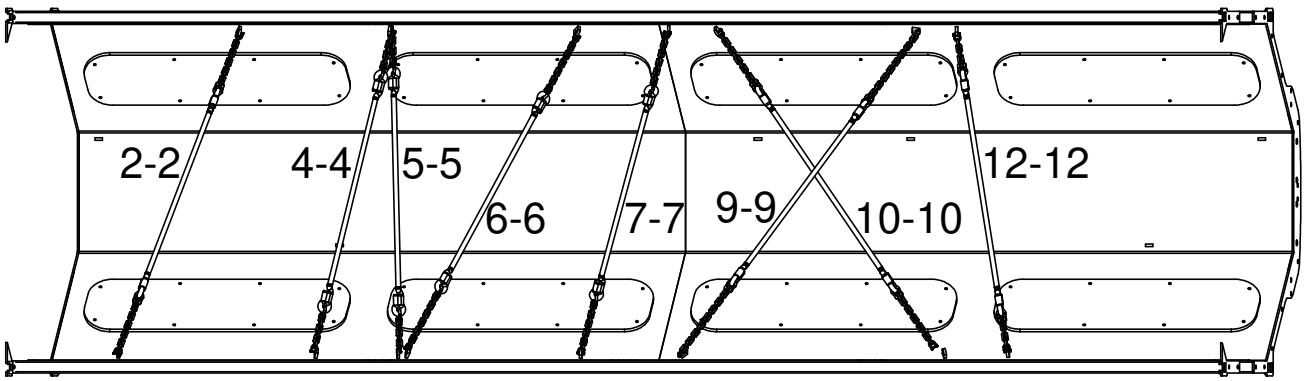




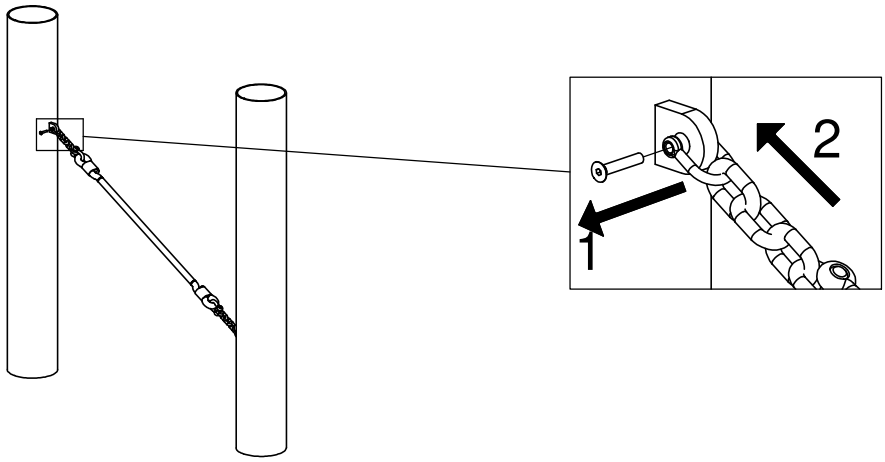



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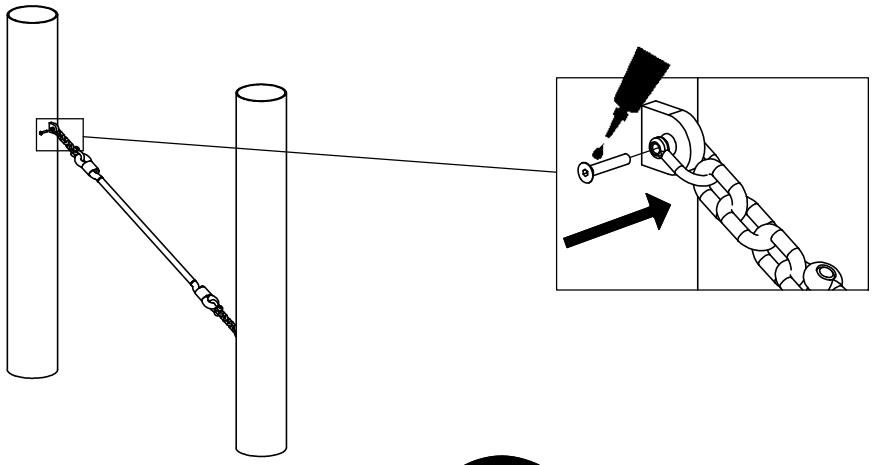



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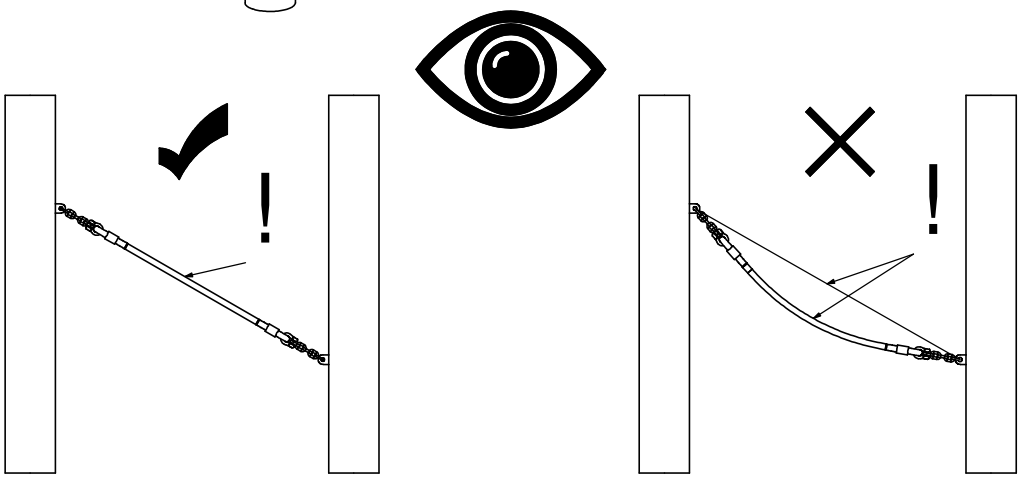
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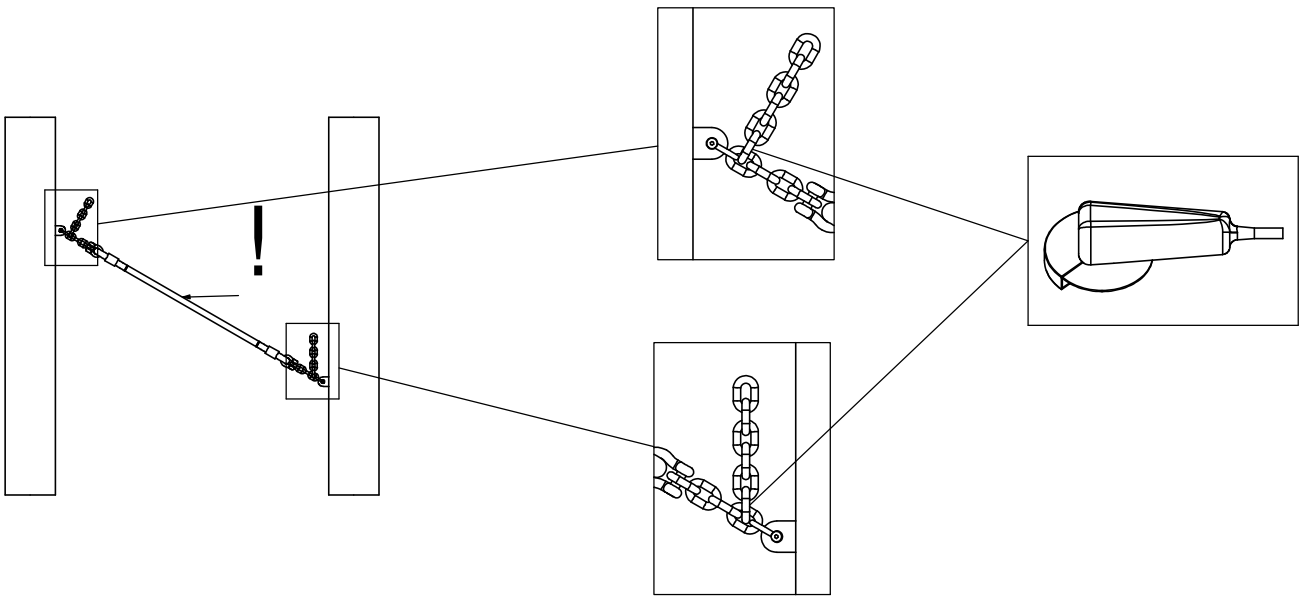
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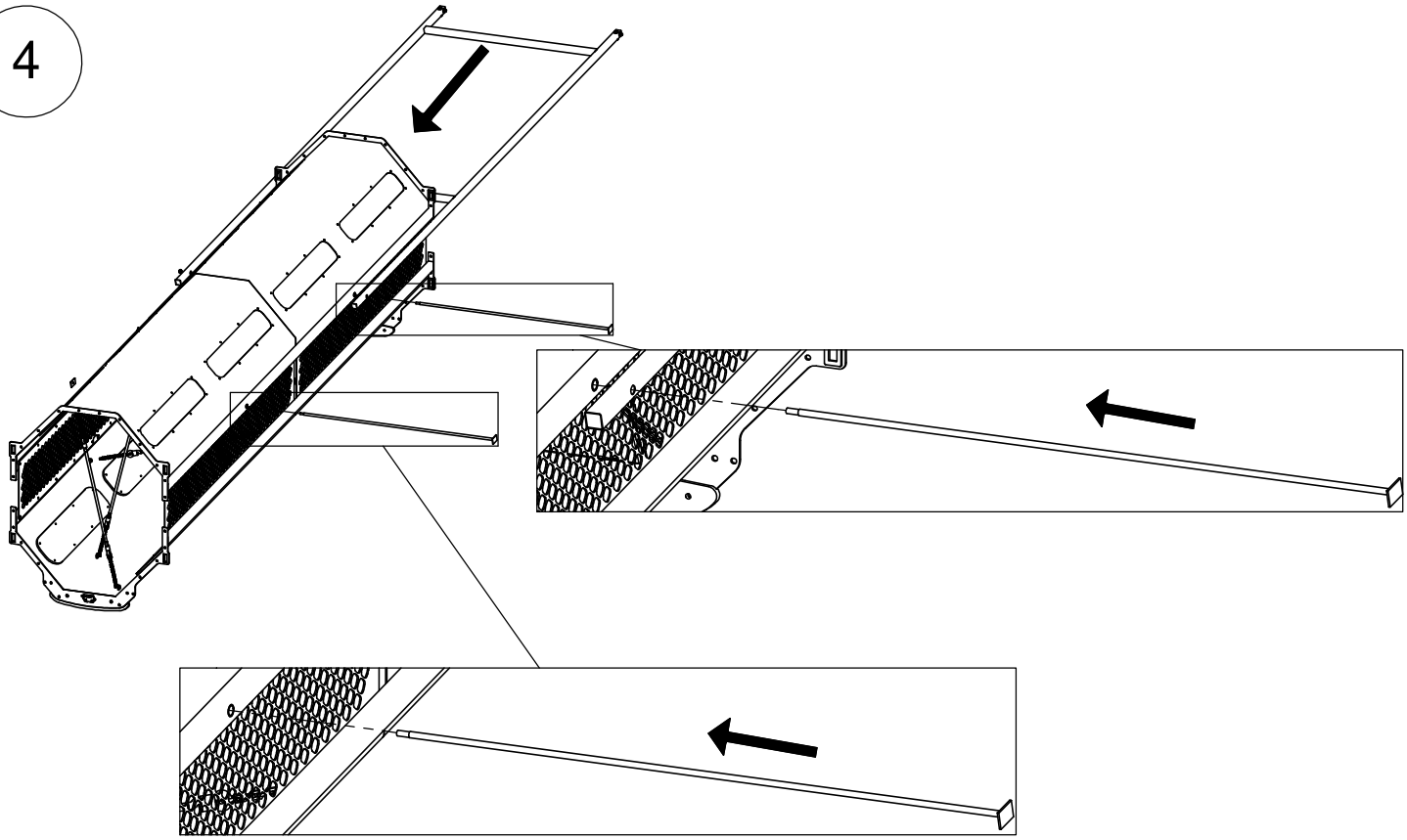
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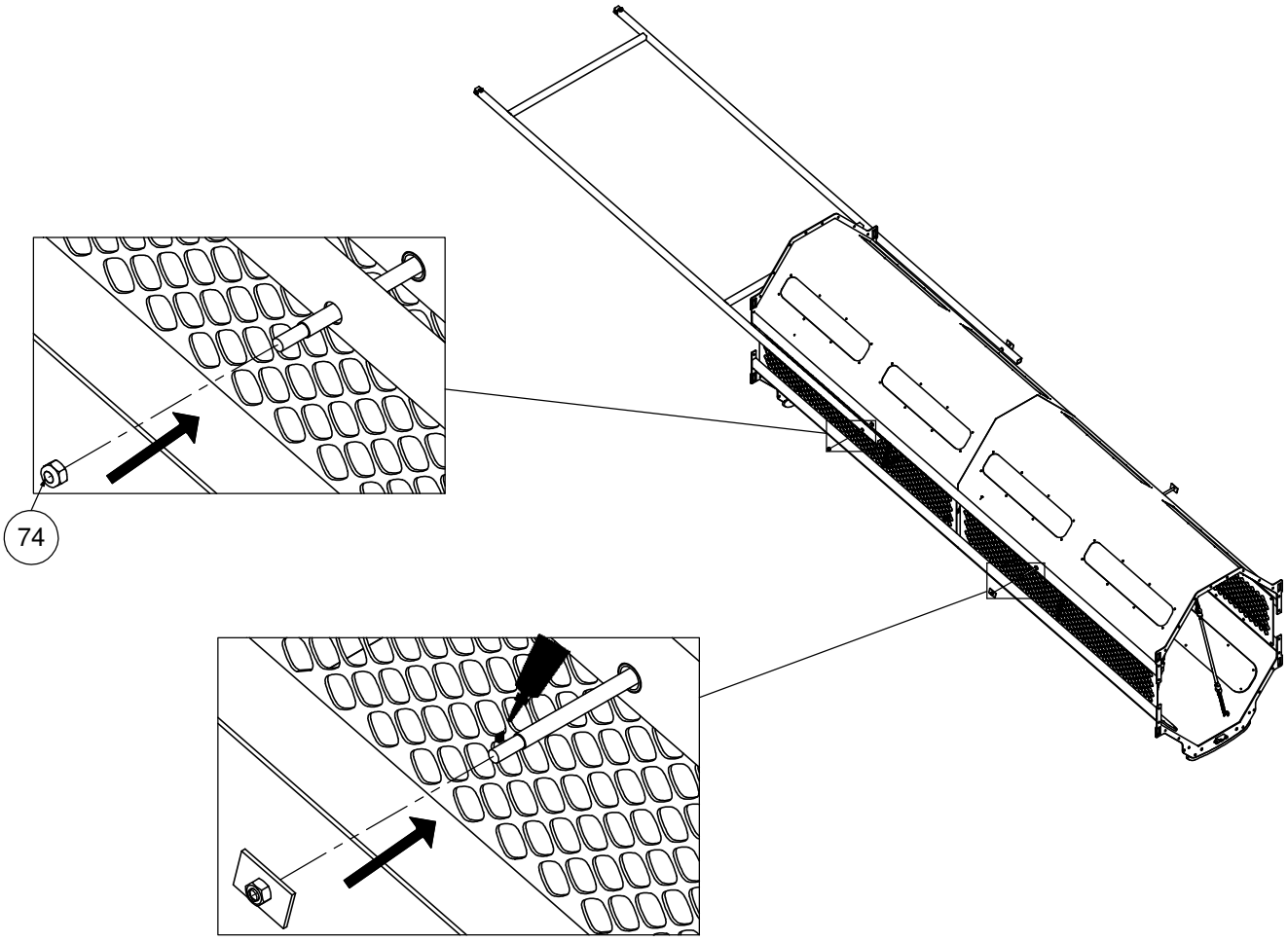
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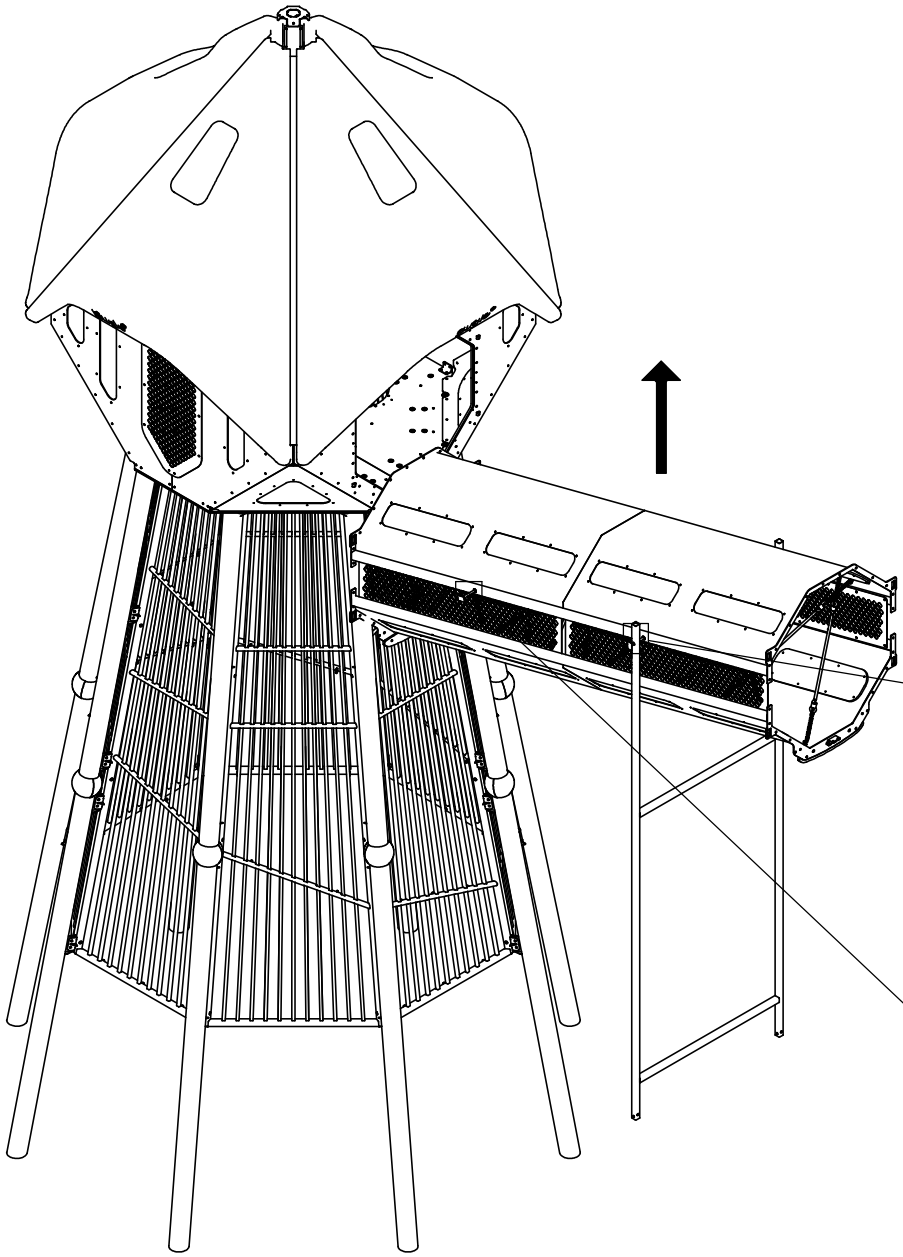
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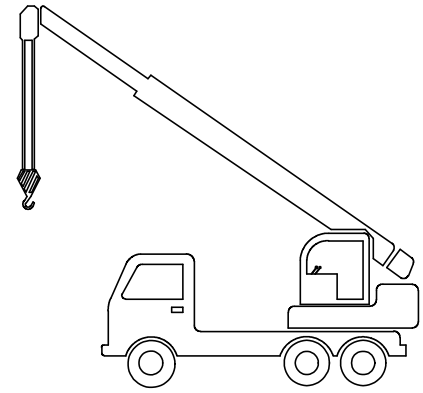


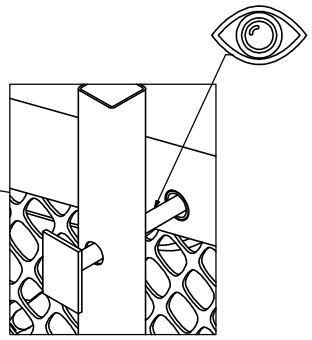
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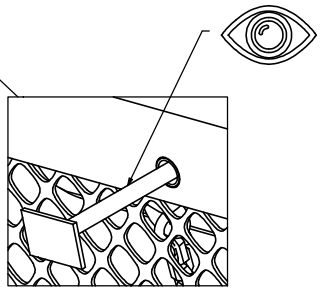


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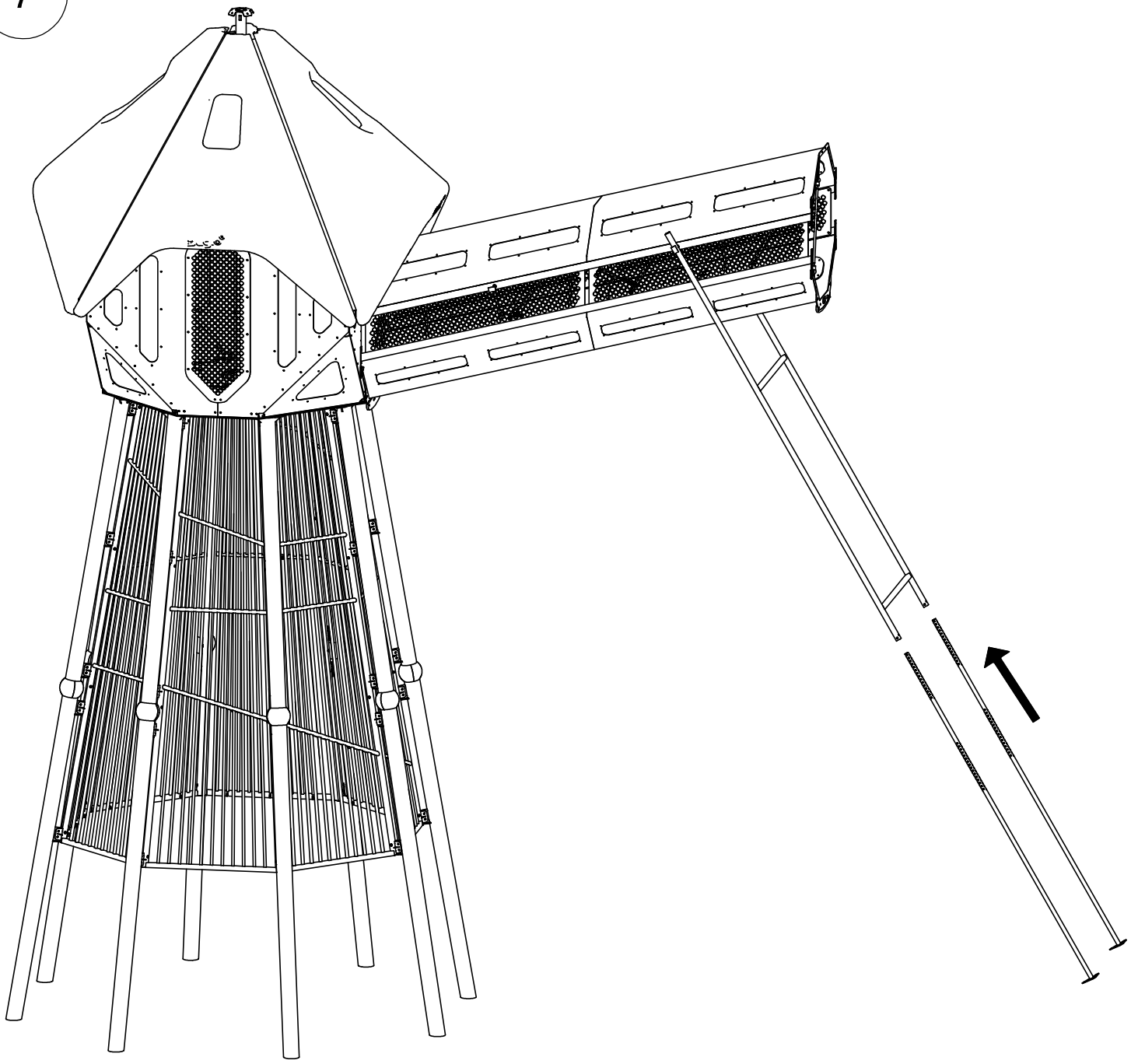




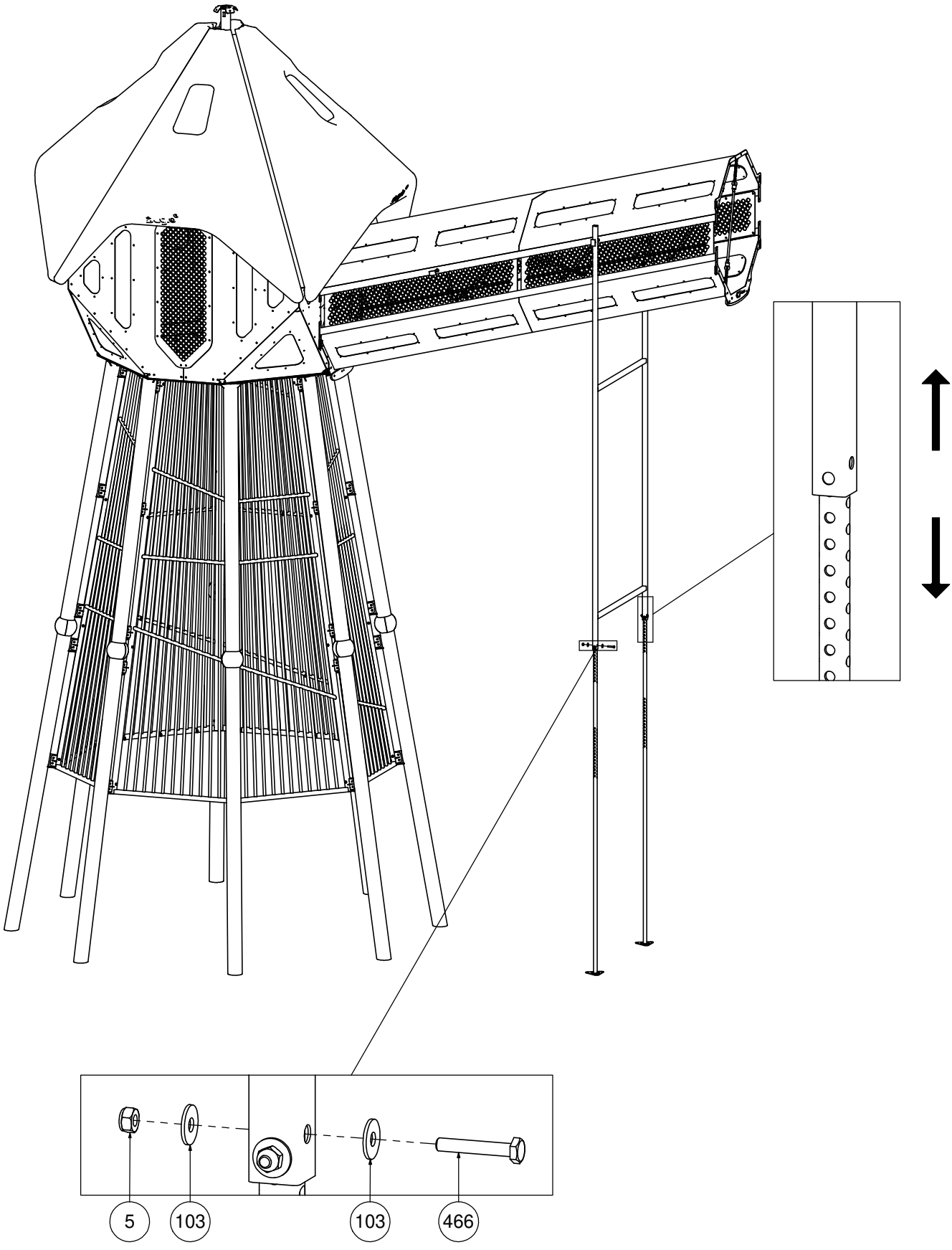




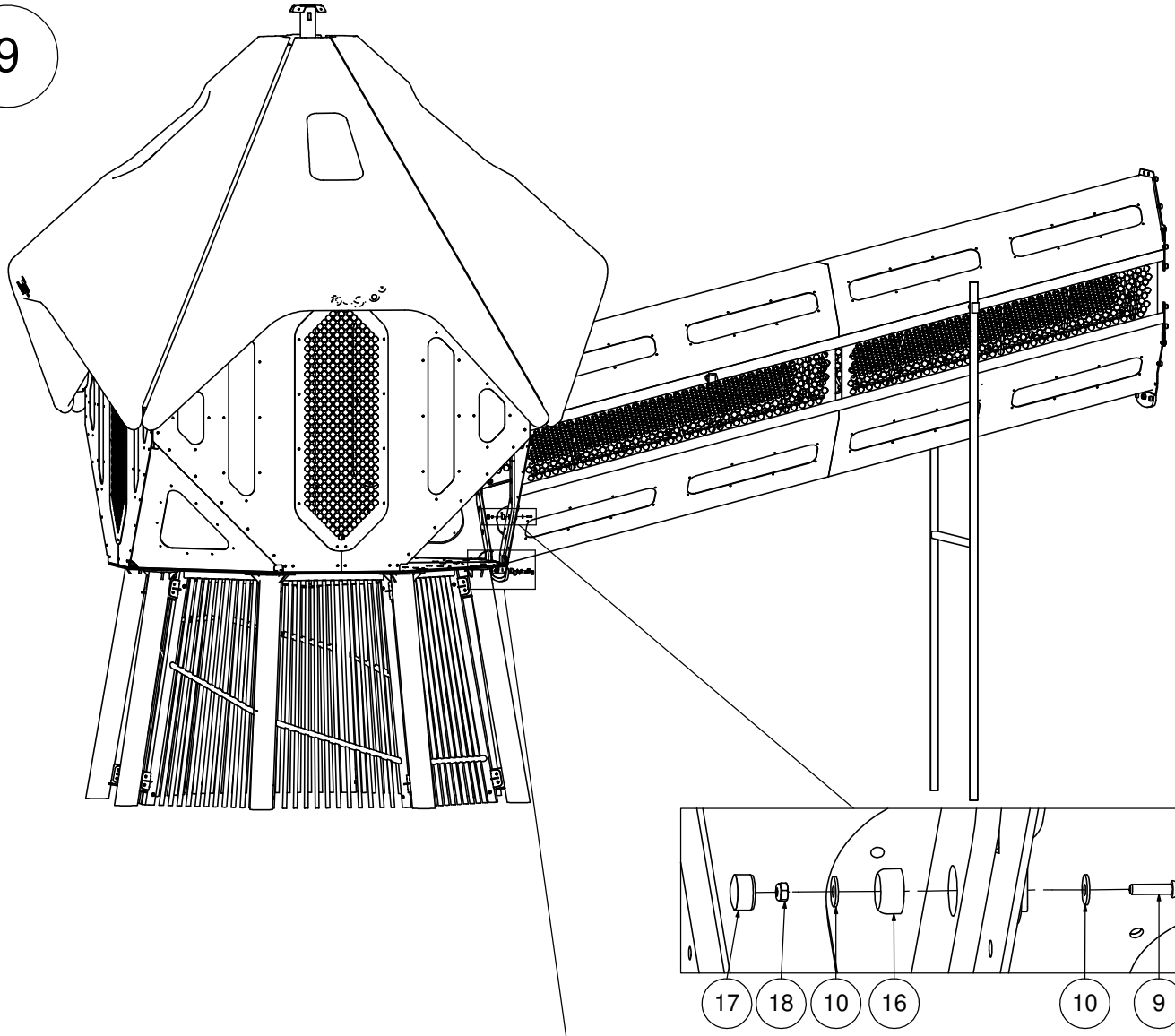
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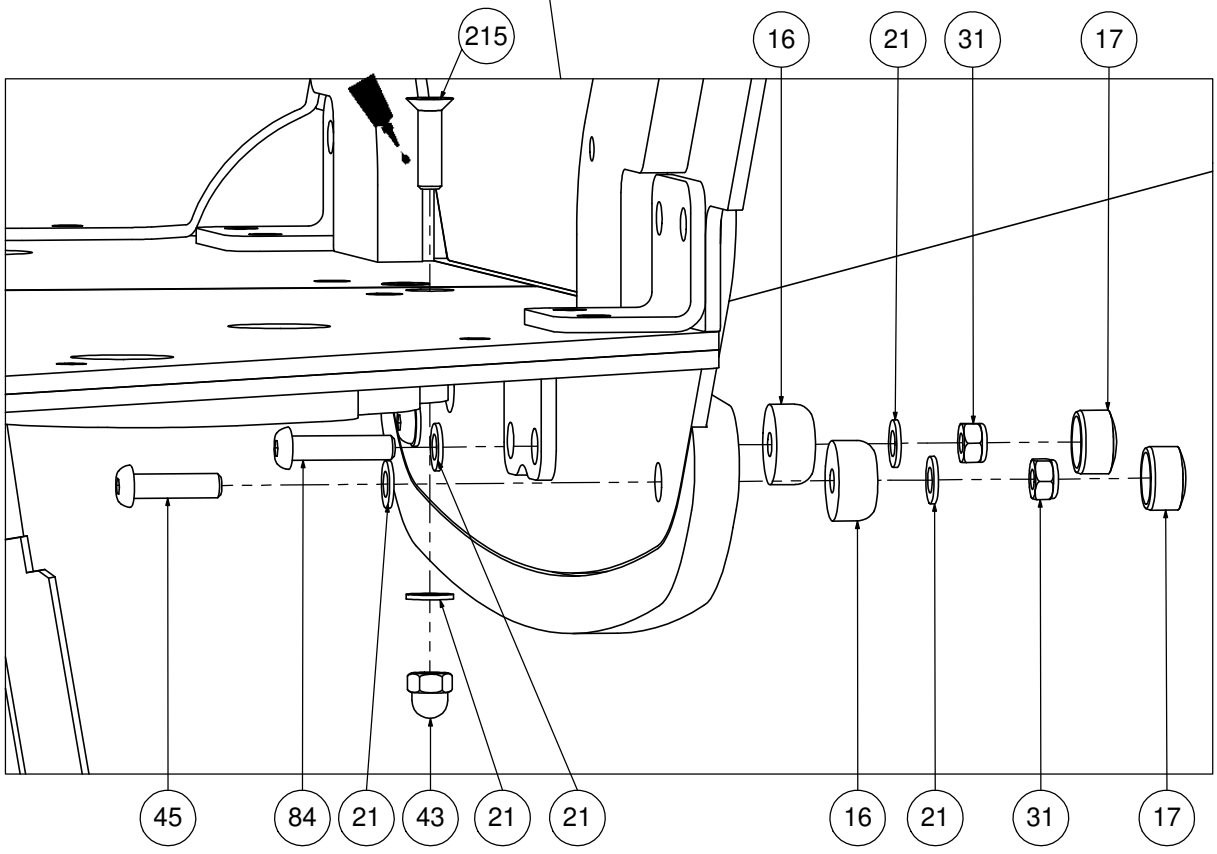


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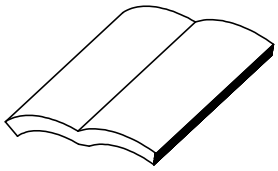


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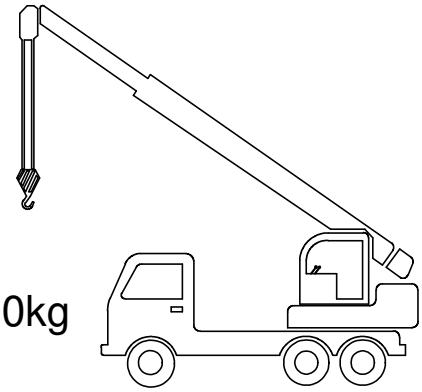


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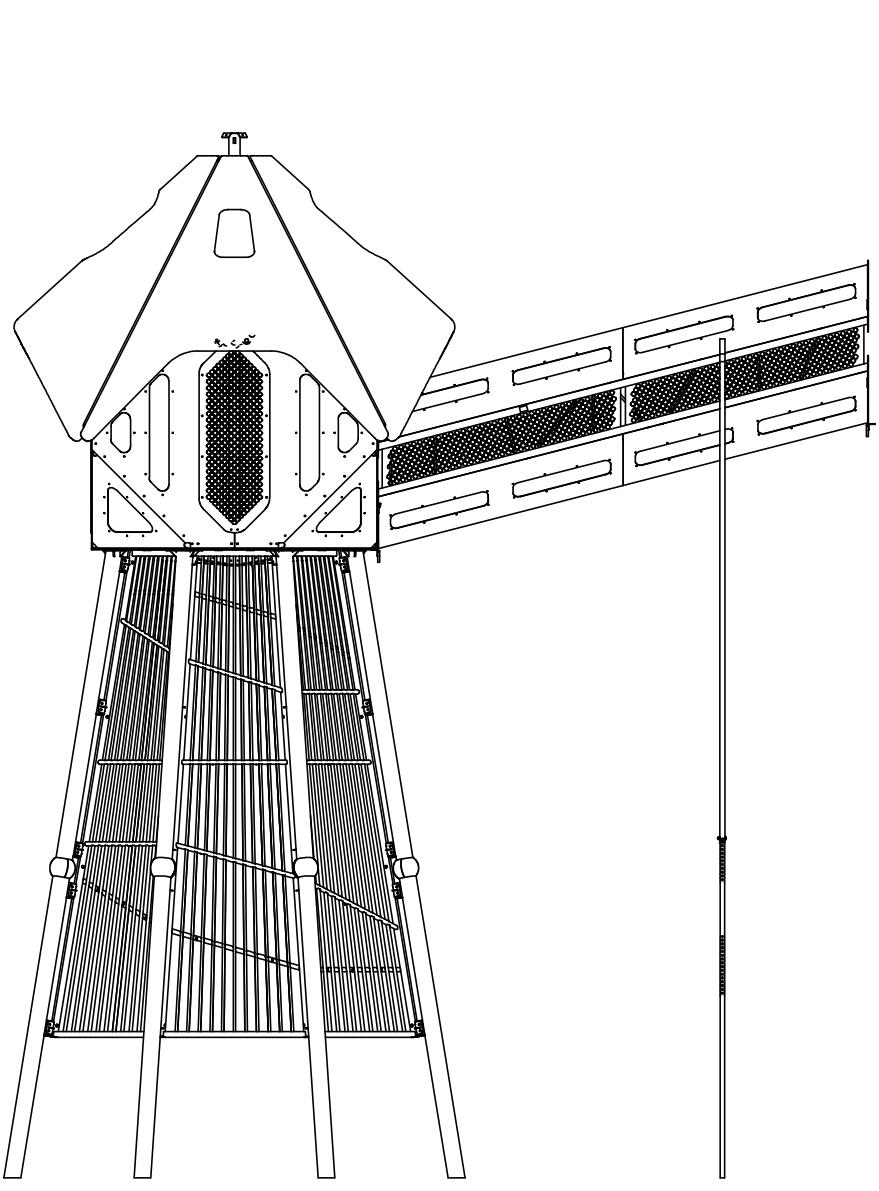
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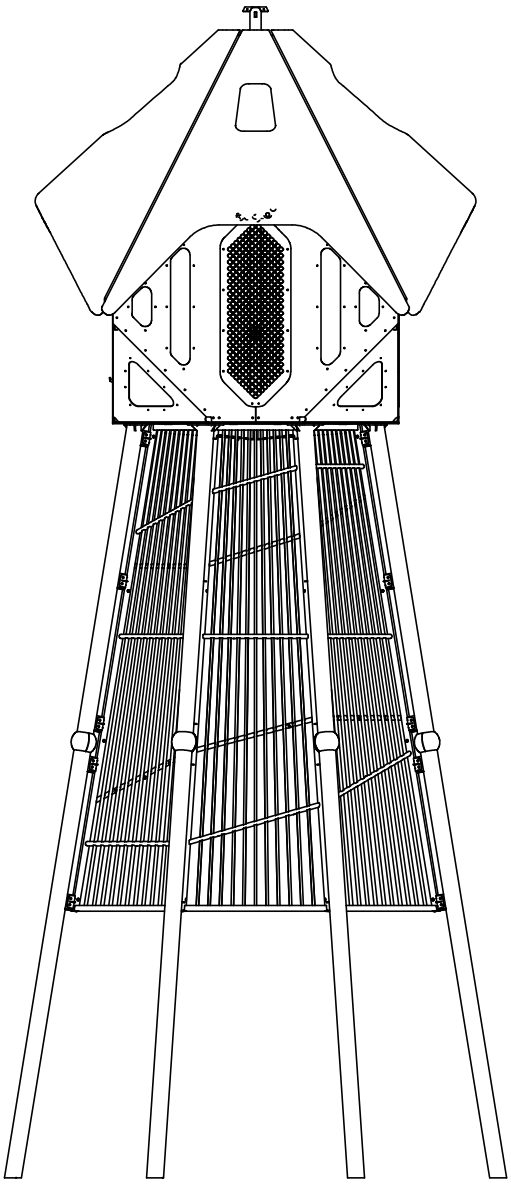
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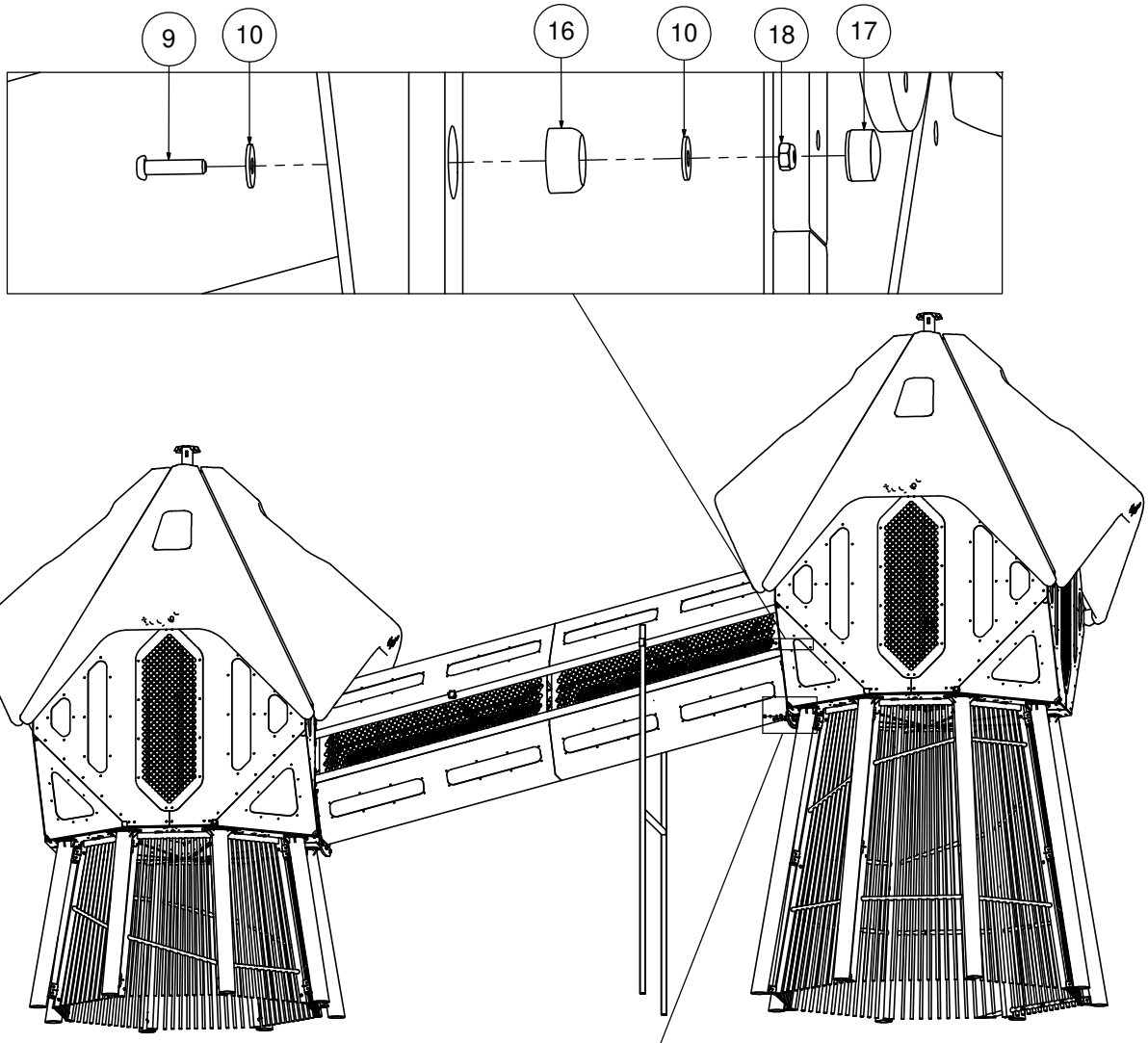
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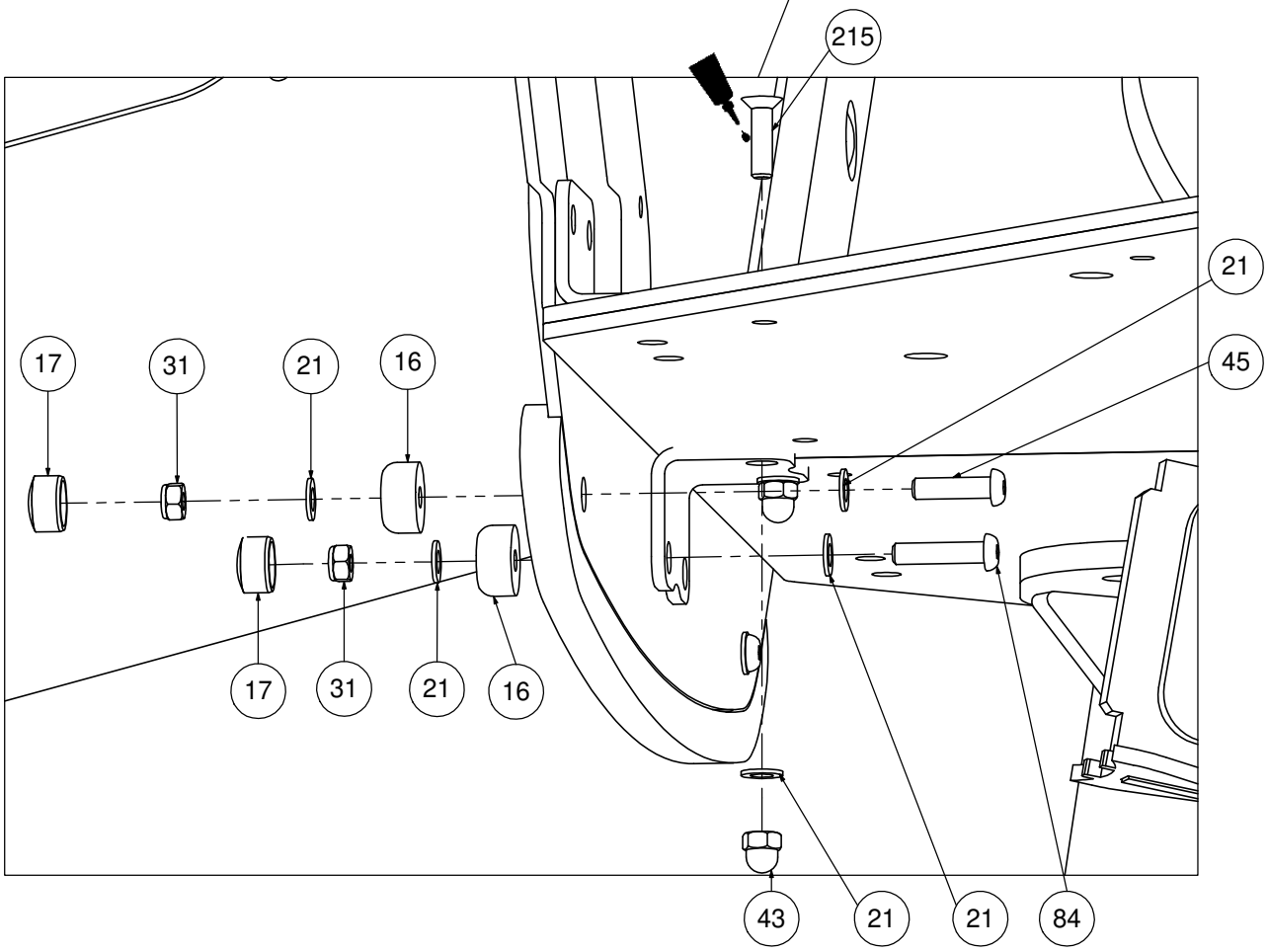




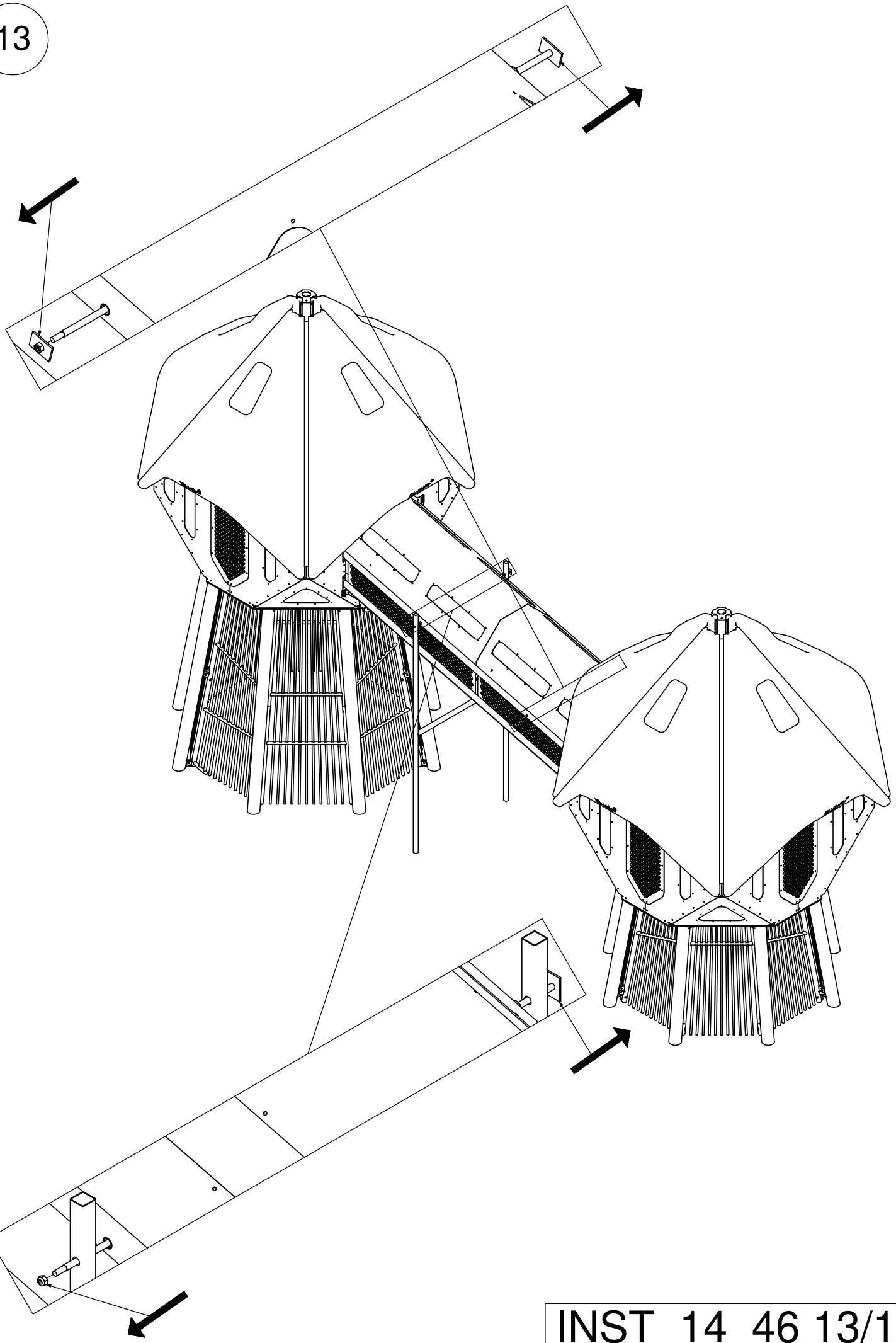


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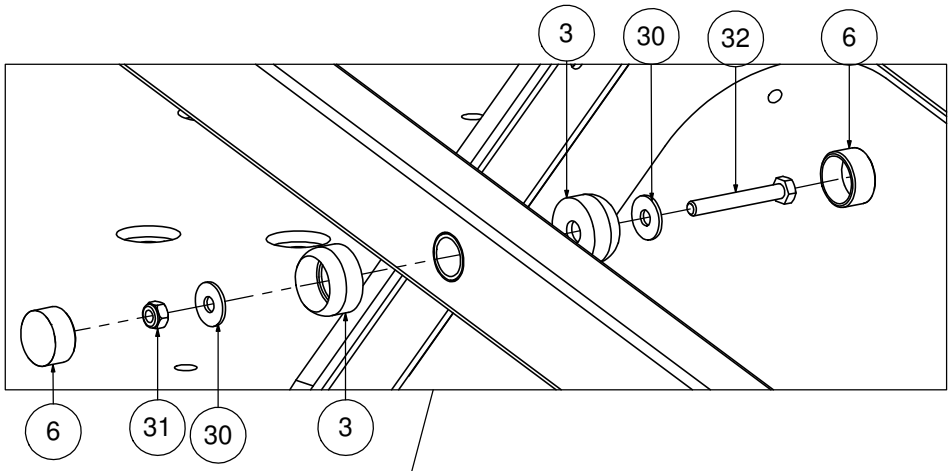


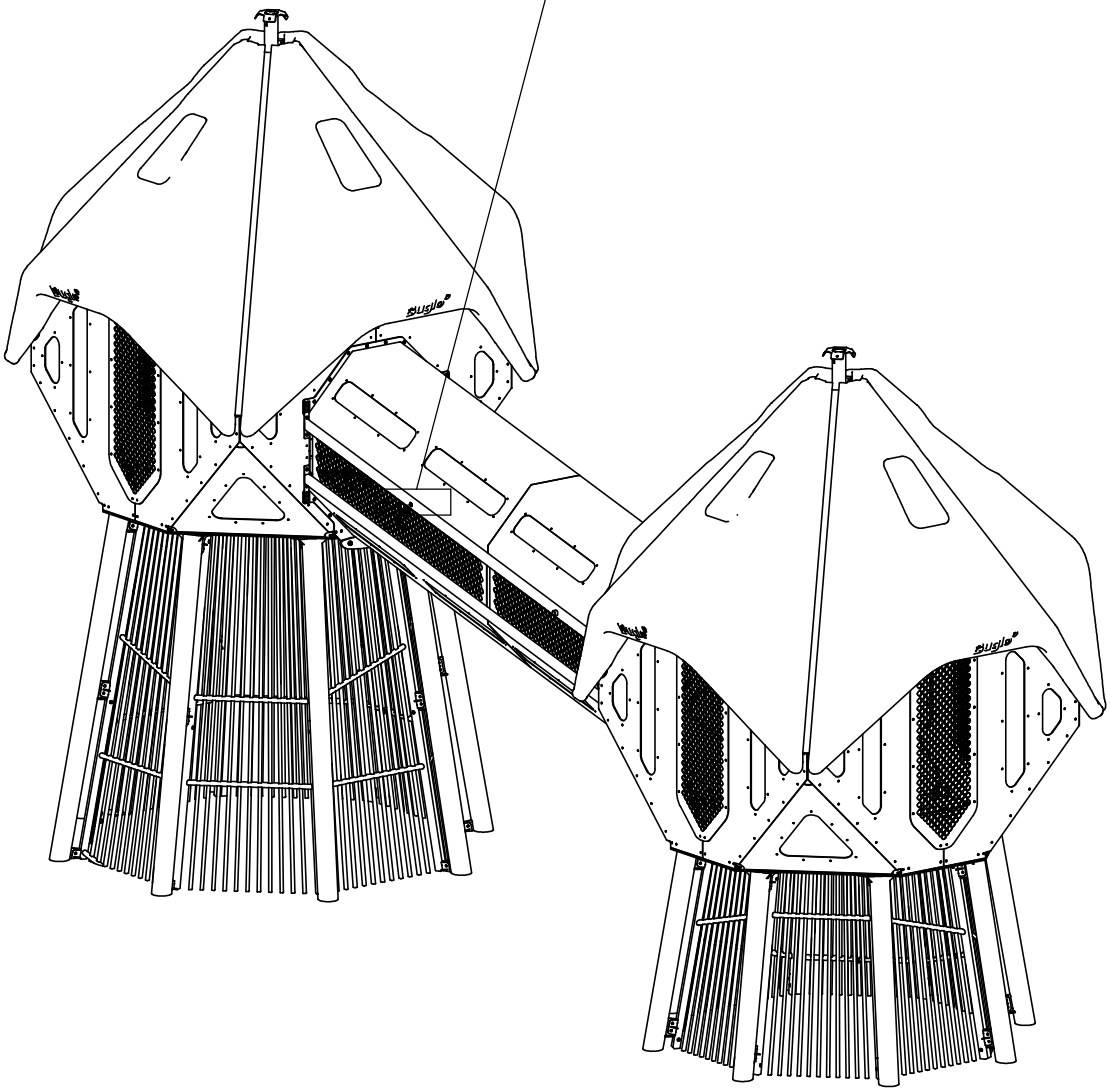


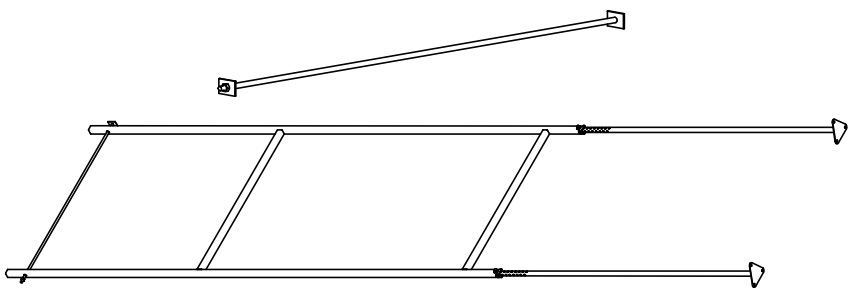
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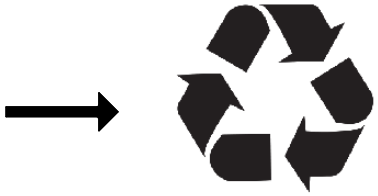


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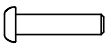
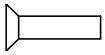


INST_14_47

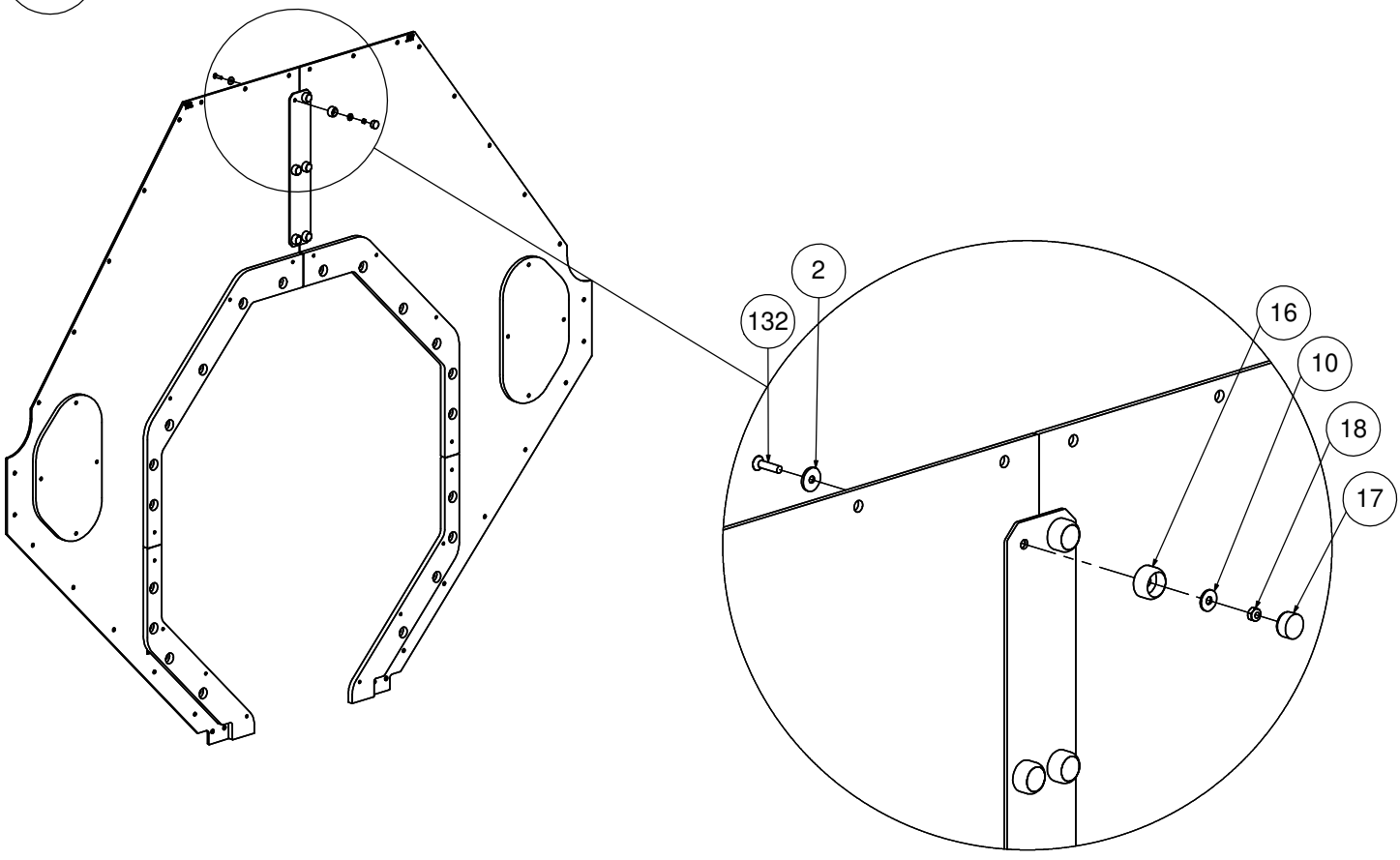




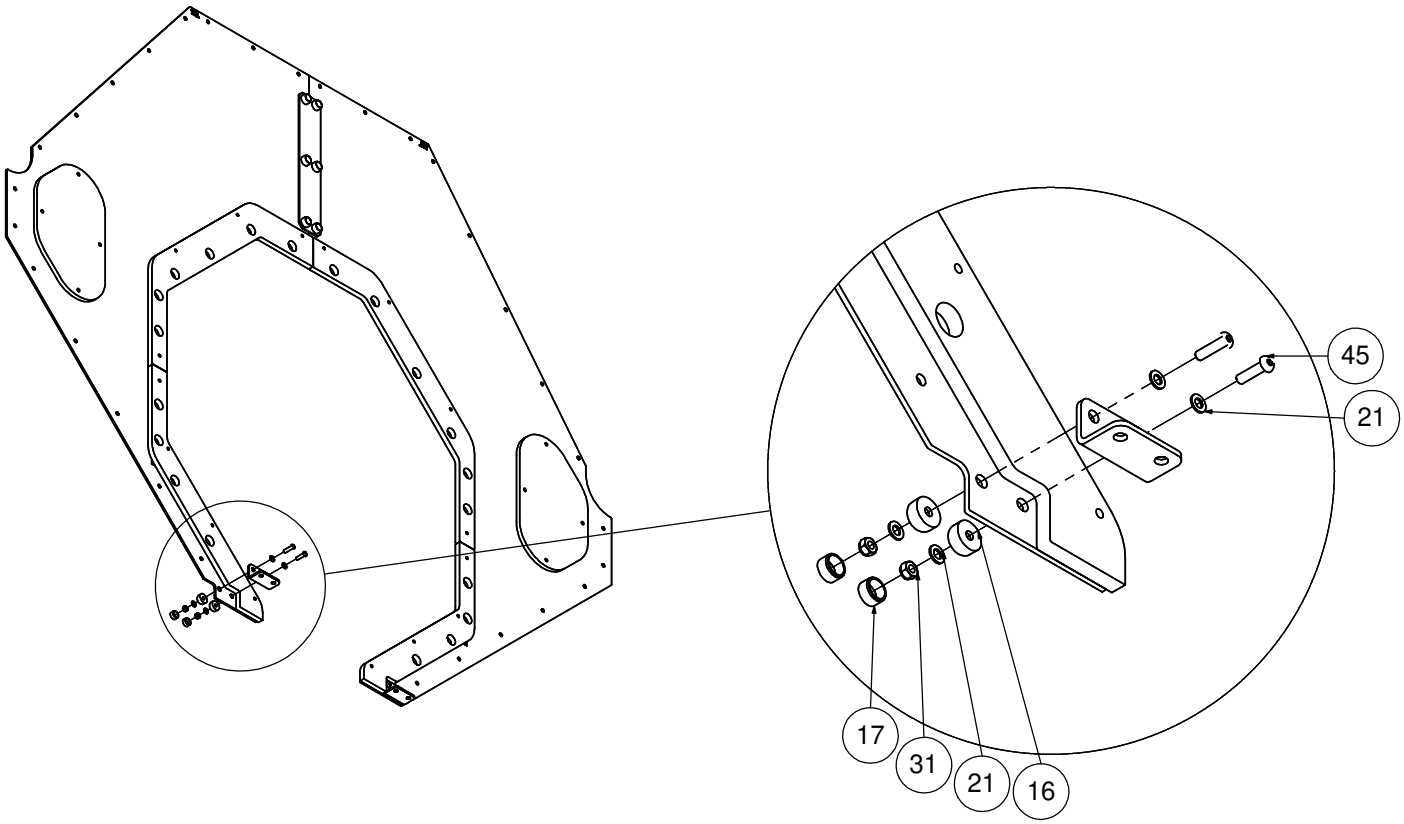
Nr. 4, 5 Nr. 10, 13

Nr	Σ	Element		
2	6		-	W6x60
10	6		DIN 9021	6x18
16	18		-	K1_d21_B
17	18		-	Z1_d21_B
18	6		DIN 985	M6 (OC)
21	24		DIN 125	8x16
28	4		ISO 7380	M8x25
31	12		DIN 985	M8 (OC)
45	8		ISO 7380	M8x30
132	6		DIN 7991	M6x25

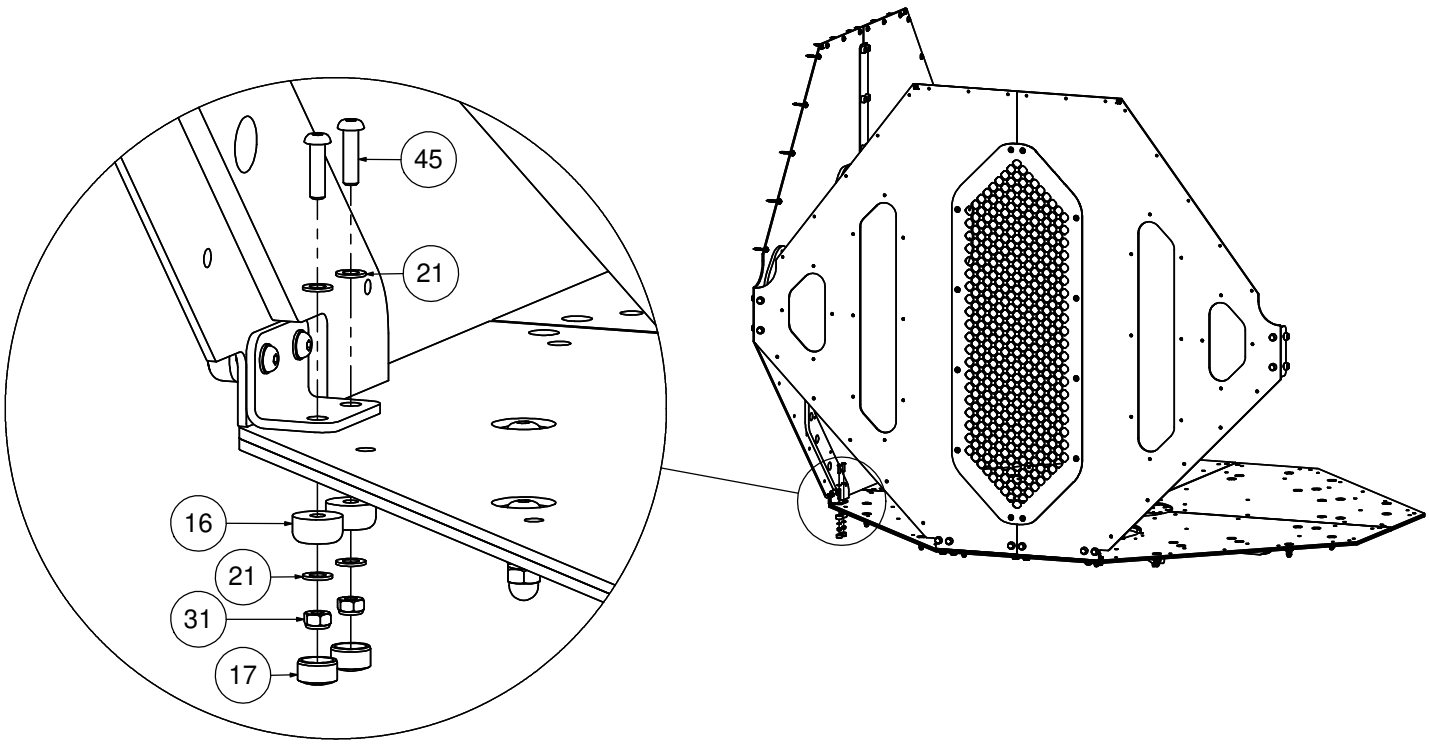
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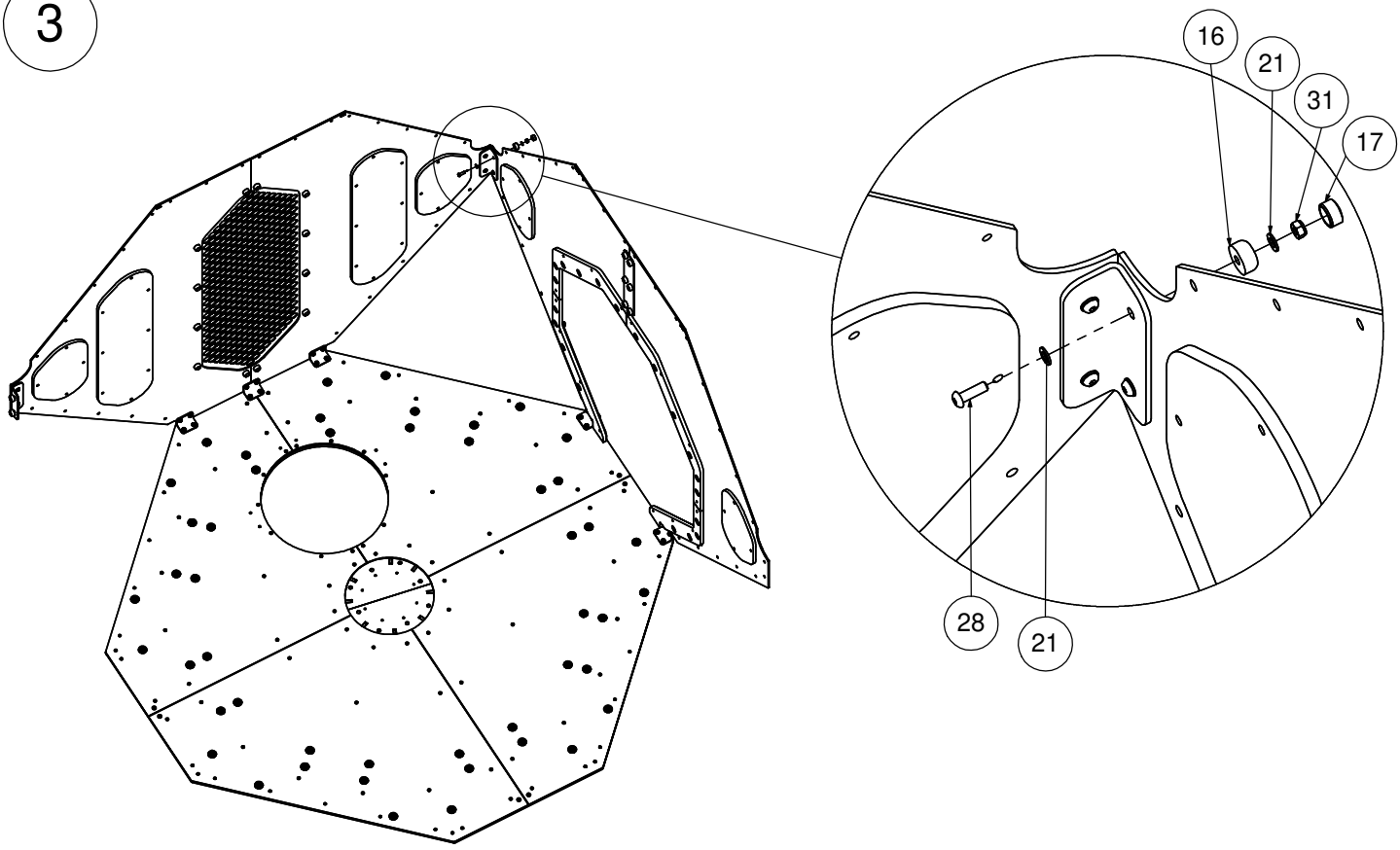
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3



3



INST_14_53

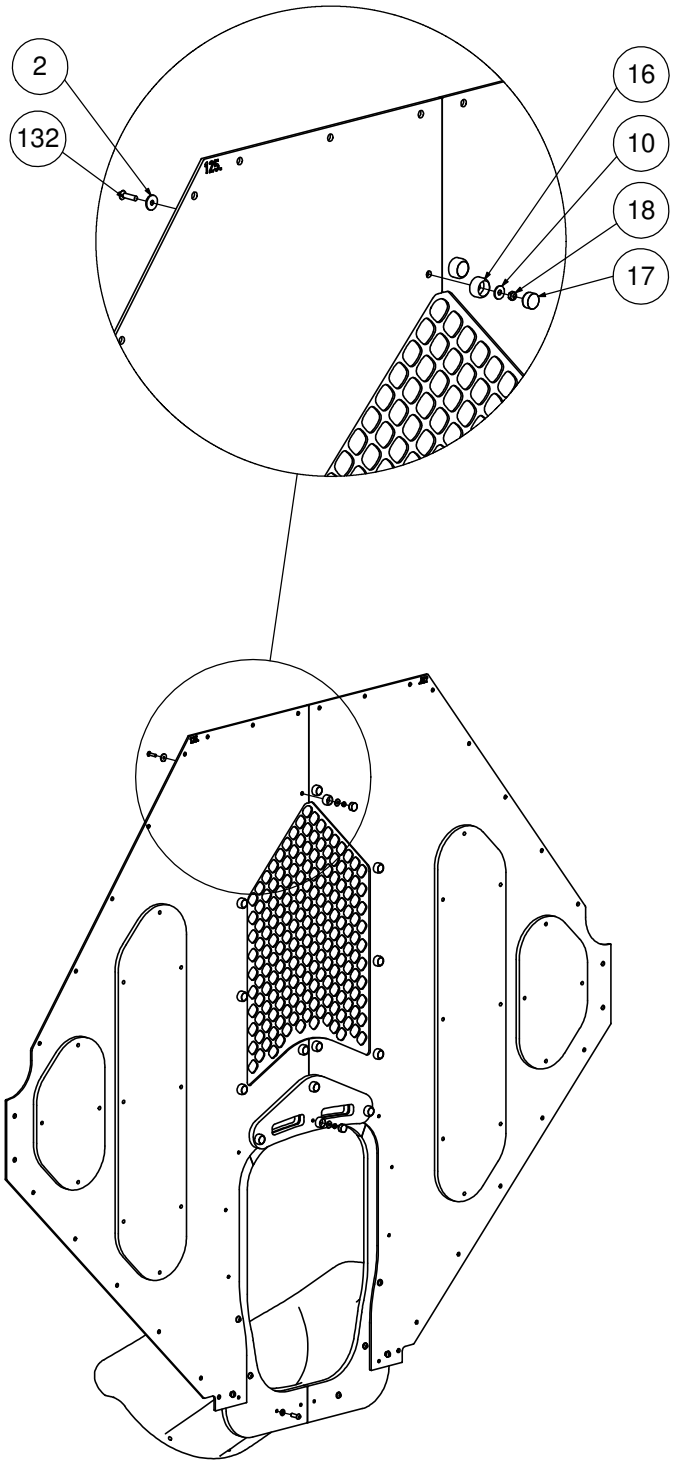


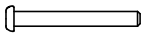
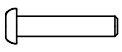
Nr. 4, 5



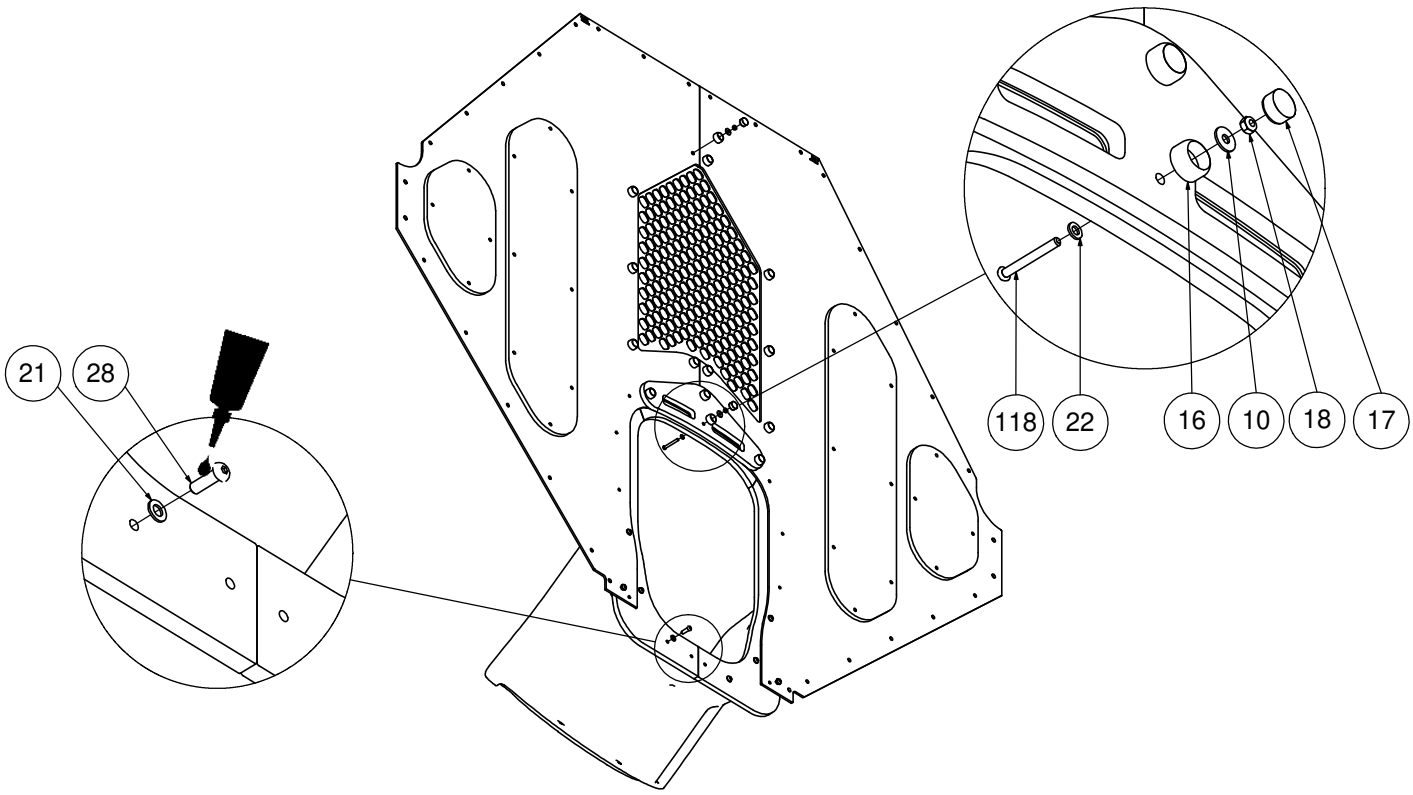
Nr. 10,13

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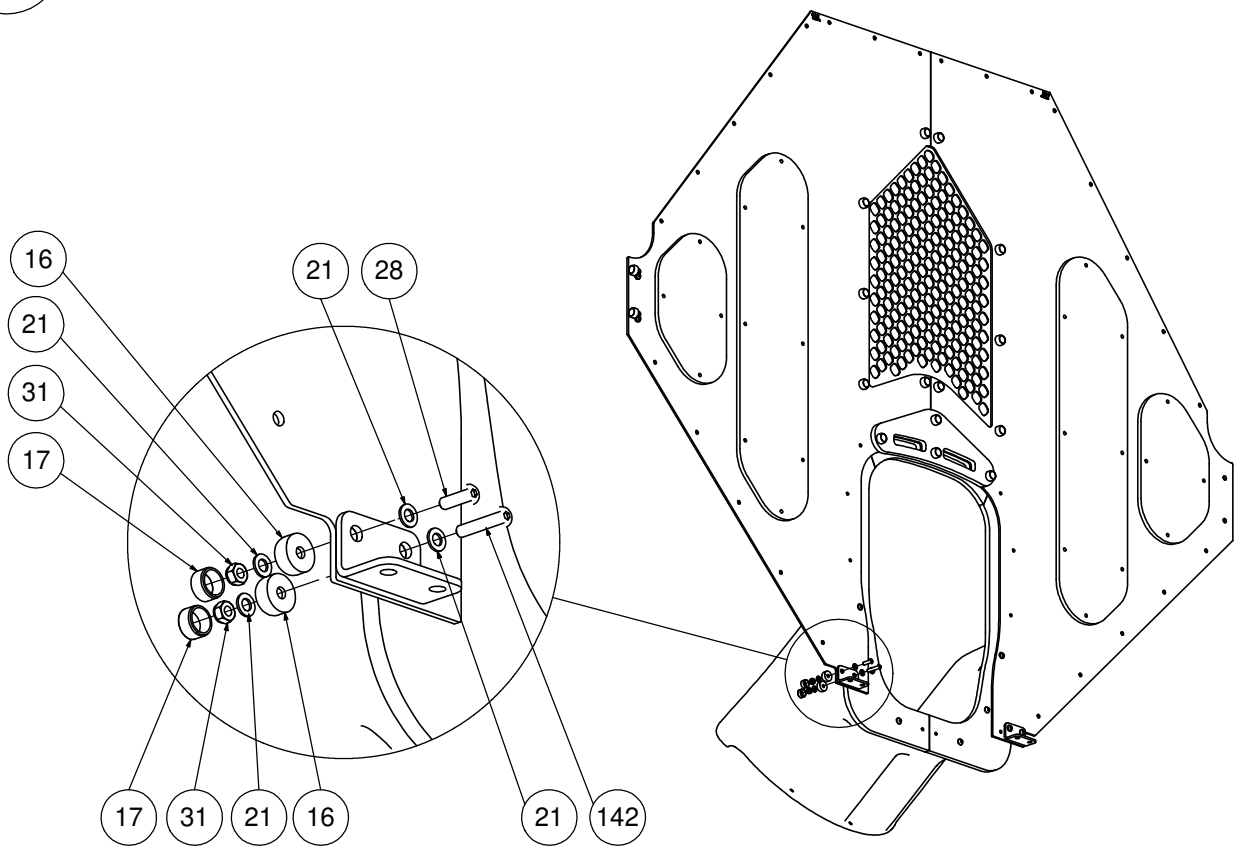


Nr	Σ	Element		
2	10		-	W6x60
10	14		DIN 9021	6x18
16	28		-	K1_d21_B
17	28		-	Z1_d21_B
18	14		DIN 985	M6 (OC)
21	34		DIN 125	8x16
22	4		DIN 125	6x12
28	10		ISO 7380	M8x25
31	14		DIN 985	M8 (OC)
45	8		ISO 7380	M8x30
118	4		ISO 7380	M6x50
132	10		DIN 7991	M6x25
142	2		ISO 7380	M8x40
215	2		DIN 7991	M8x30

INST_14_53

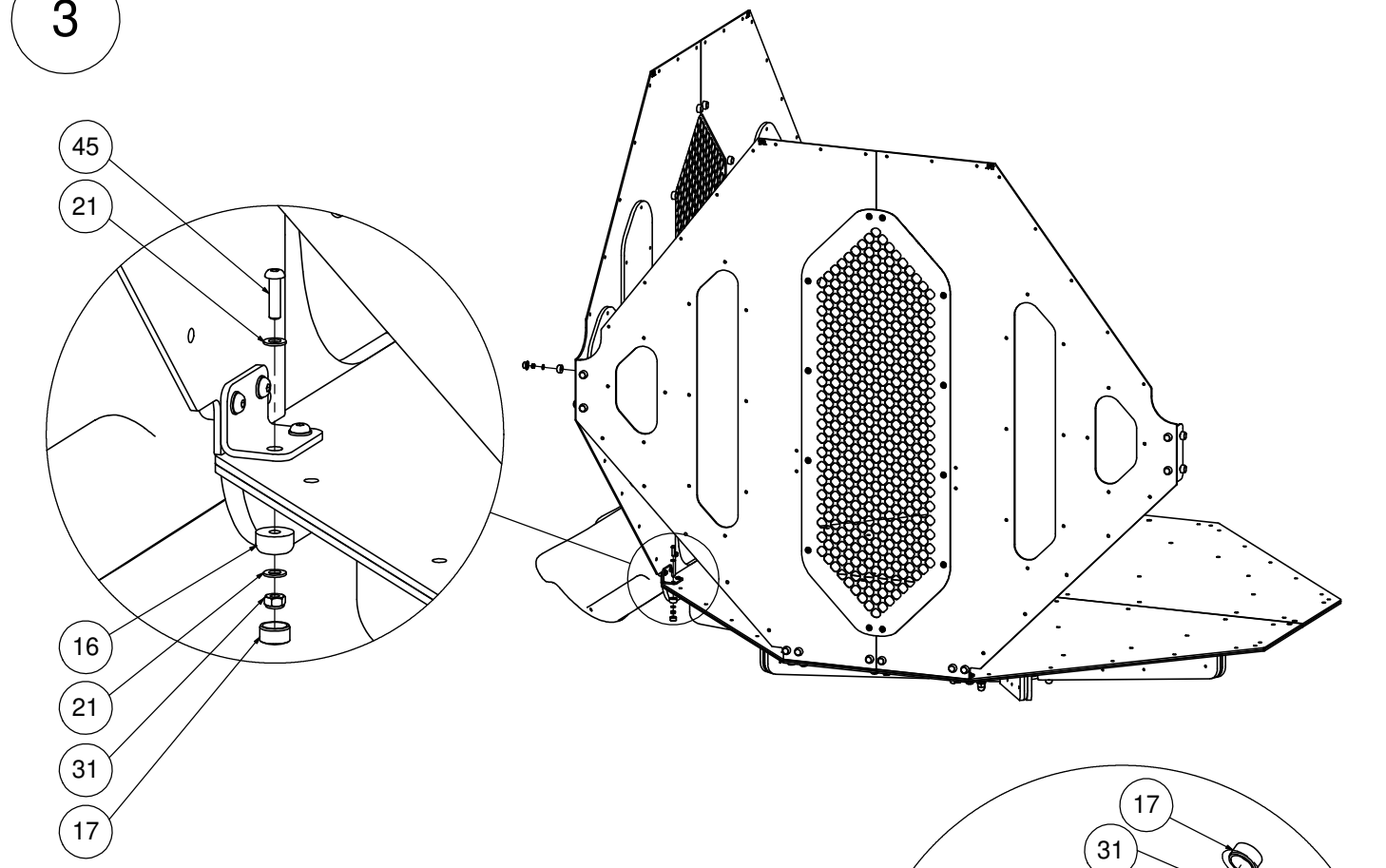


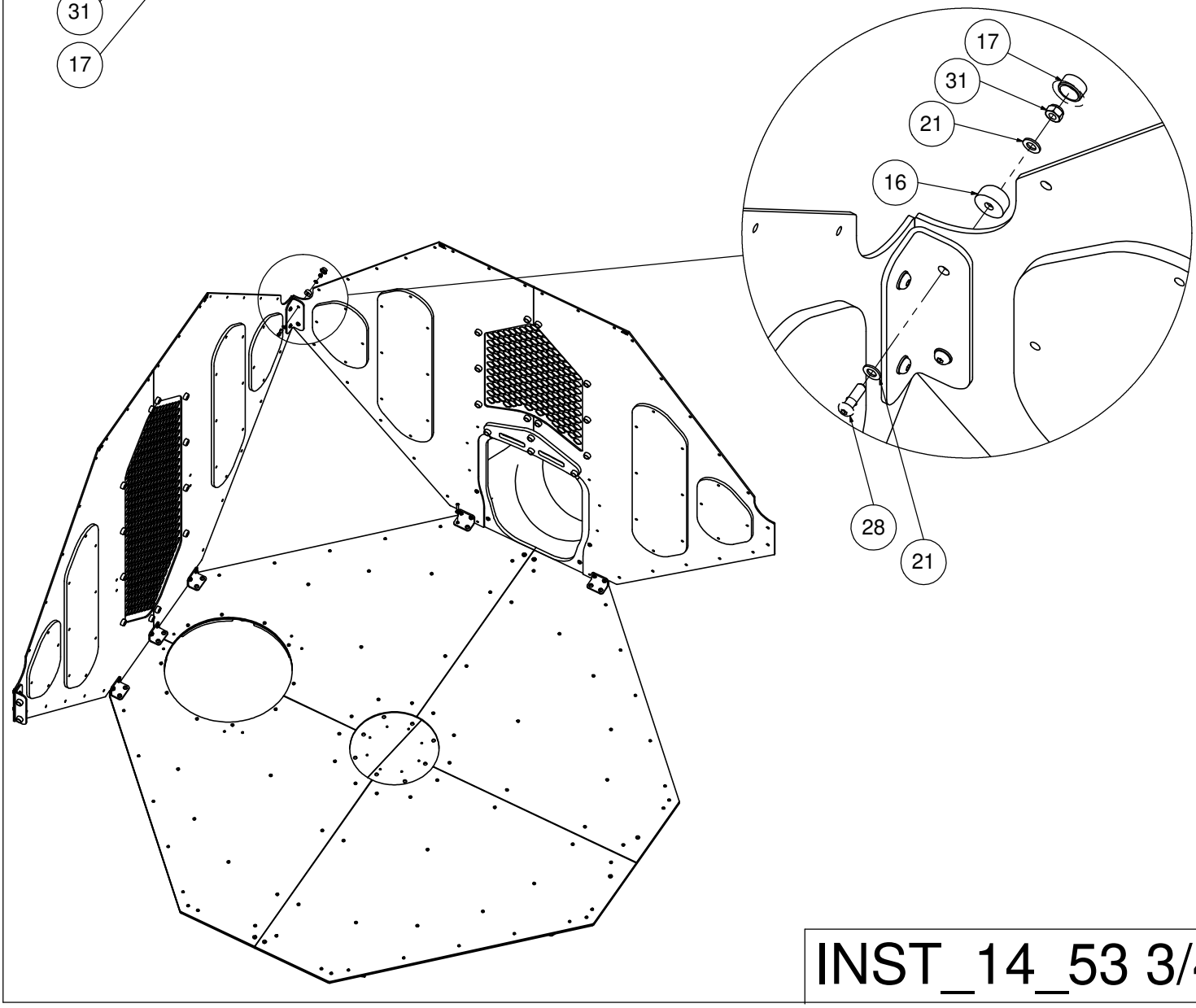
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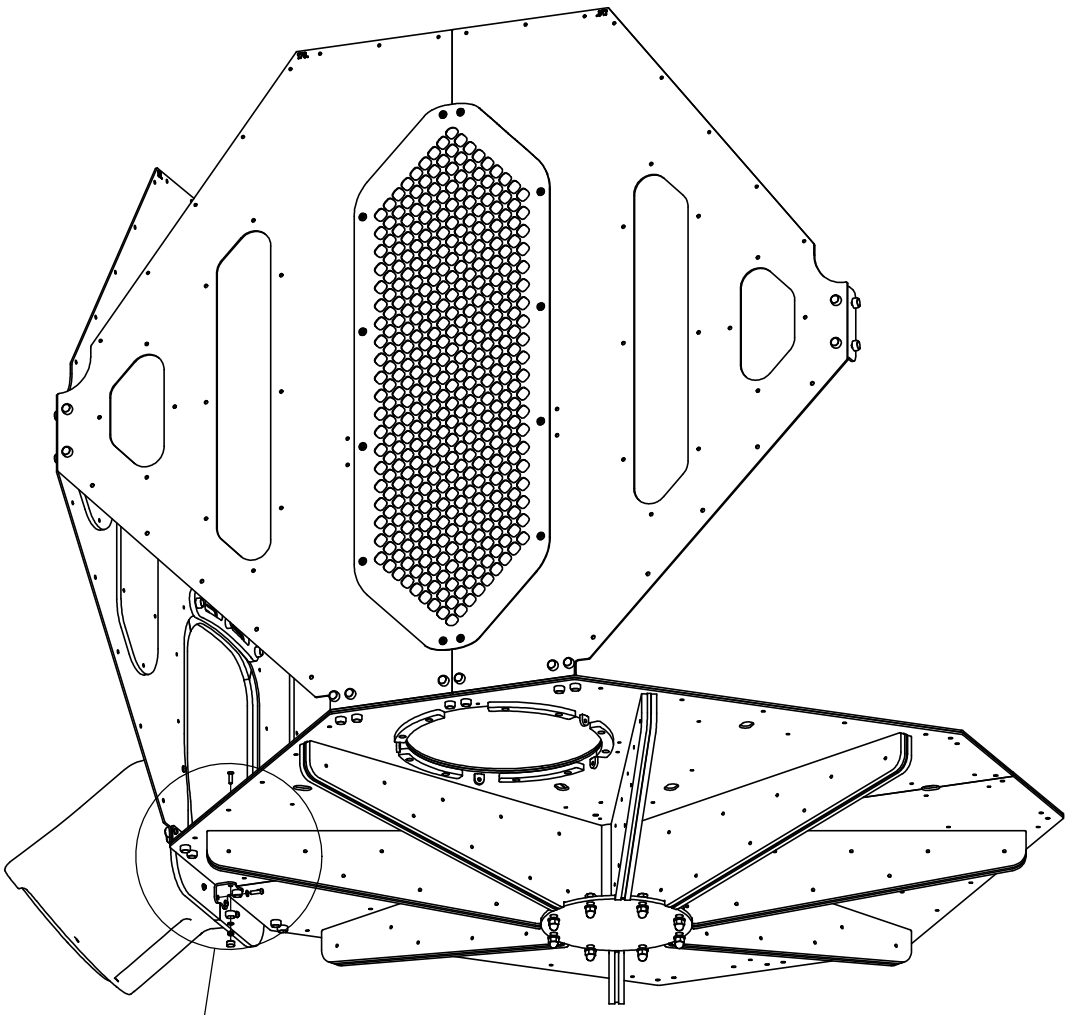
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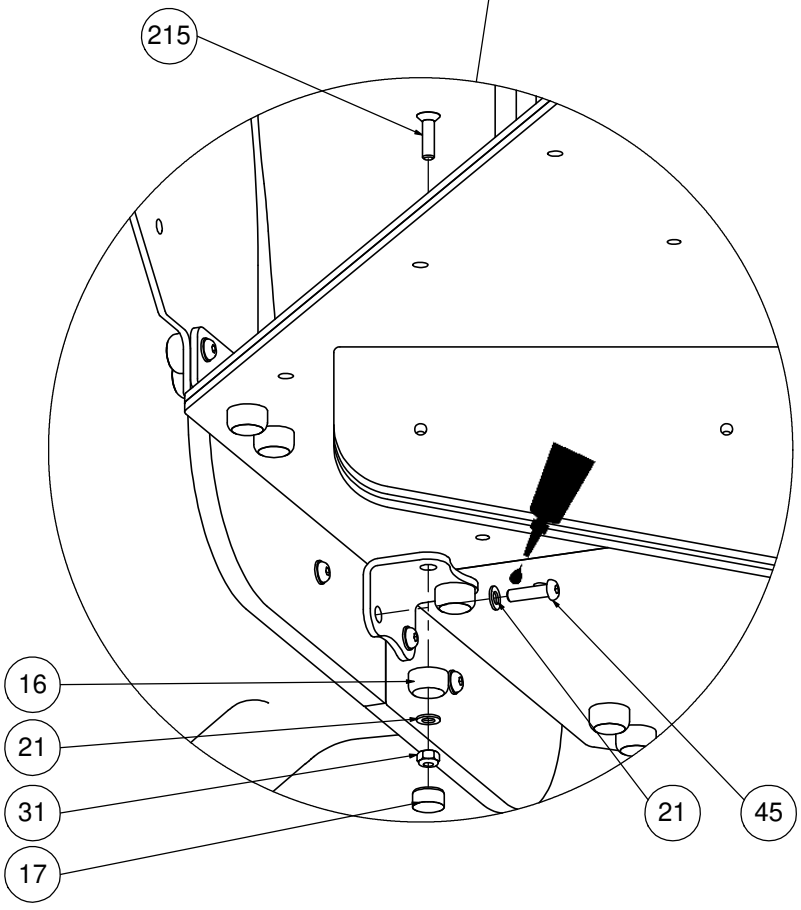
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INST_14_53





INST_14_54

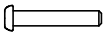
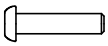
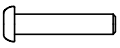


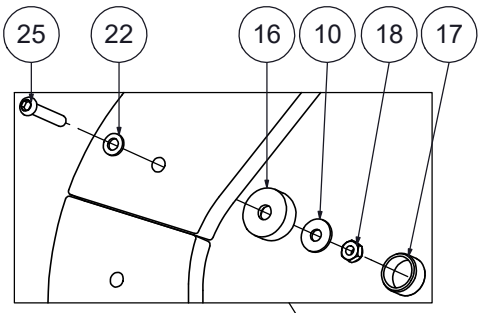
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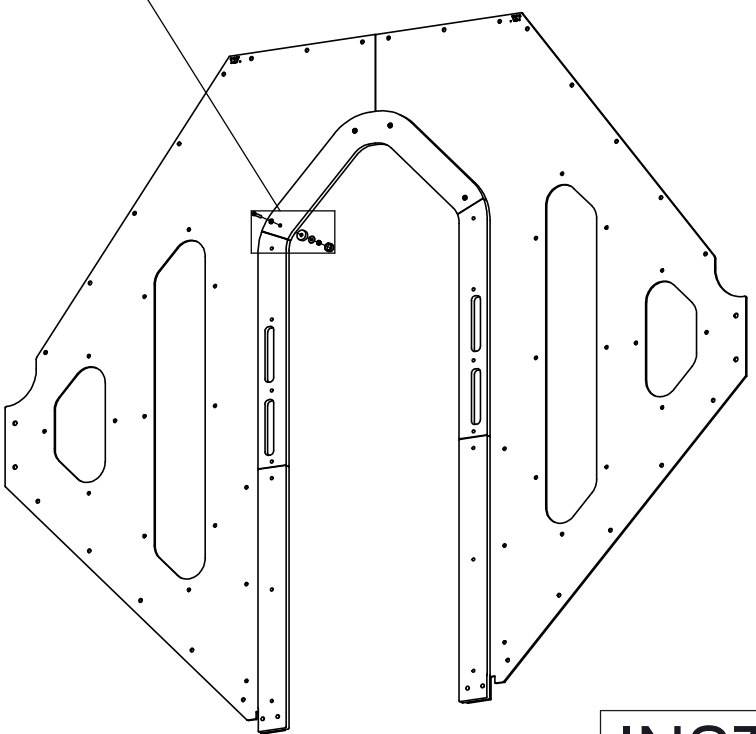


Nr. 10,13

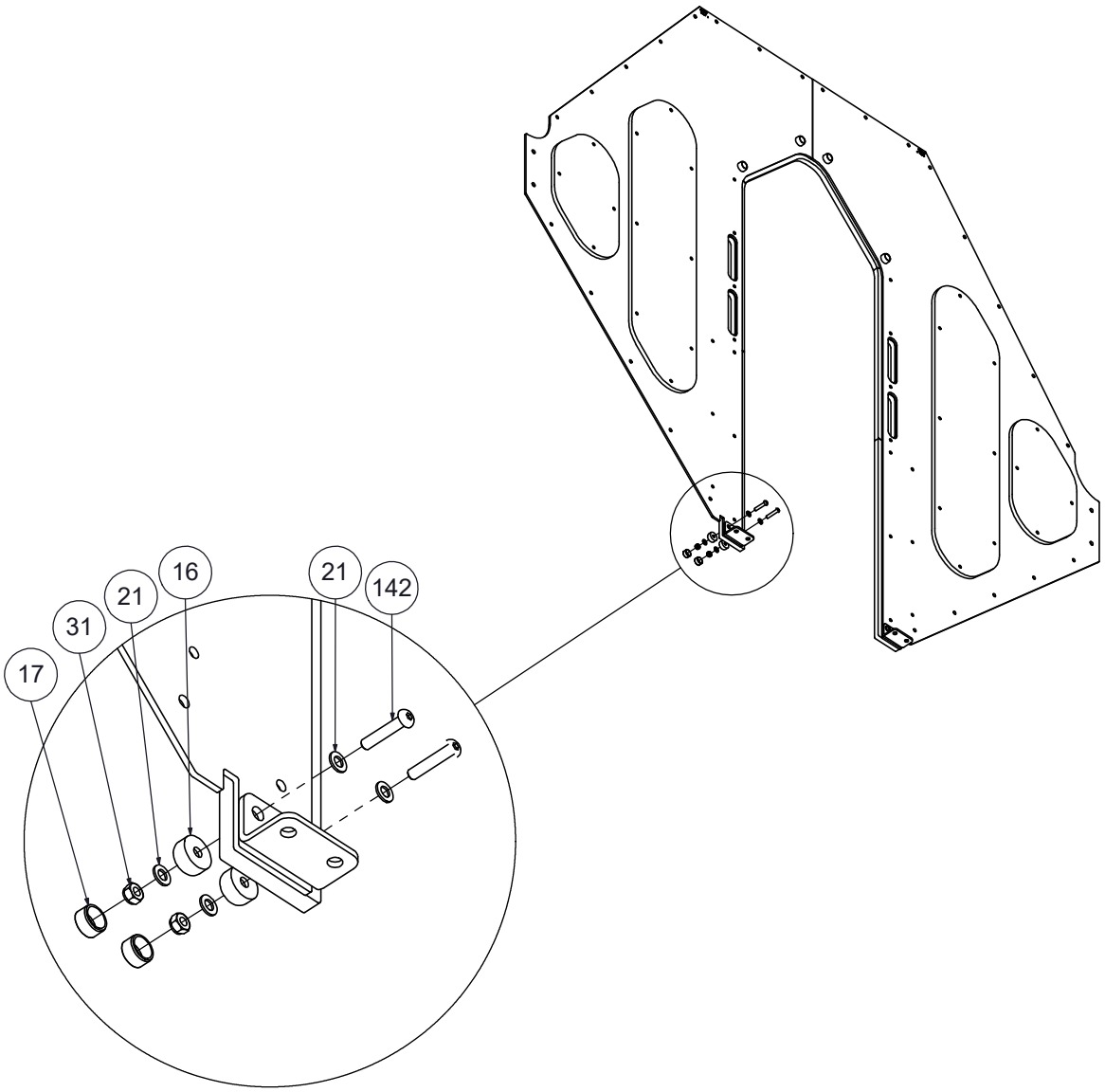
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Nr	Σ	Element		
10	6		DIN 9021	6x18
16	20		-	K1_d21_B
17	20		-	Z1_d21_B
18	6		DIN 985	M6 (OC)
21	26		DIN 125	8x16
22	4		DIN 125	6x12
25	4		ISO 7380	M6x35
28	4		ISO 7380	M8x25
31	14		DIN 985	M8 (OC)
84	4		ISO 7380	M8x35
126	2		DIN 7991	M6x30
142	4		ISO 7380	M8x40
215	2		DIN 7991	M8x30

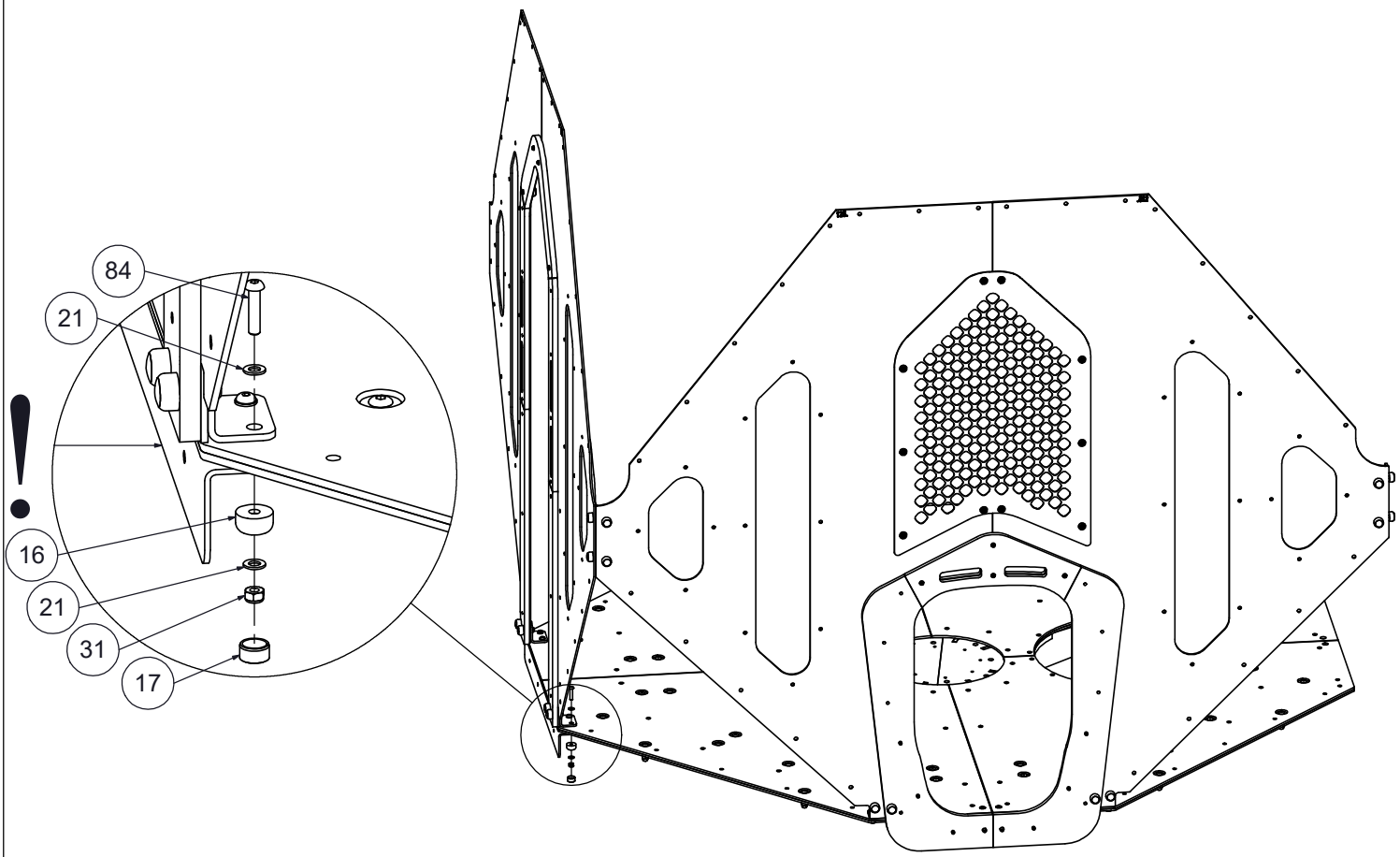


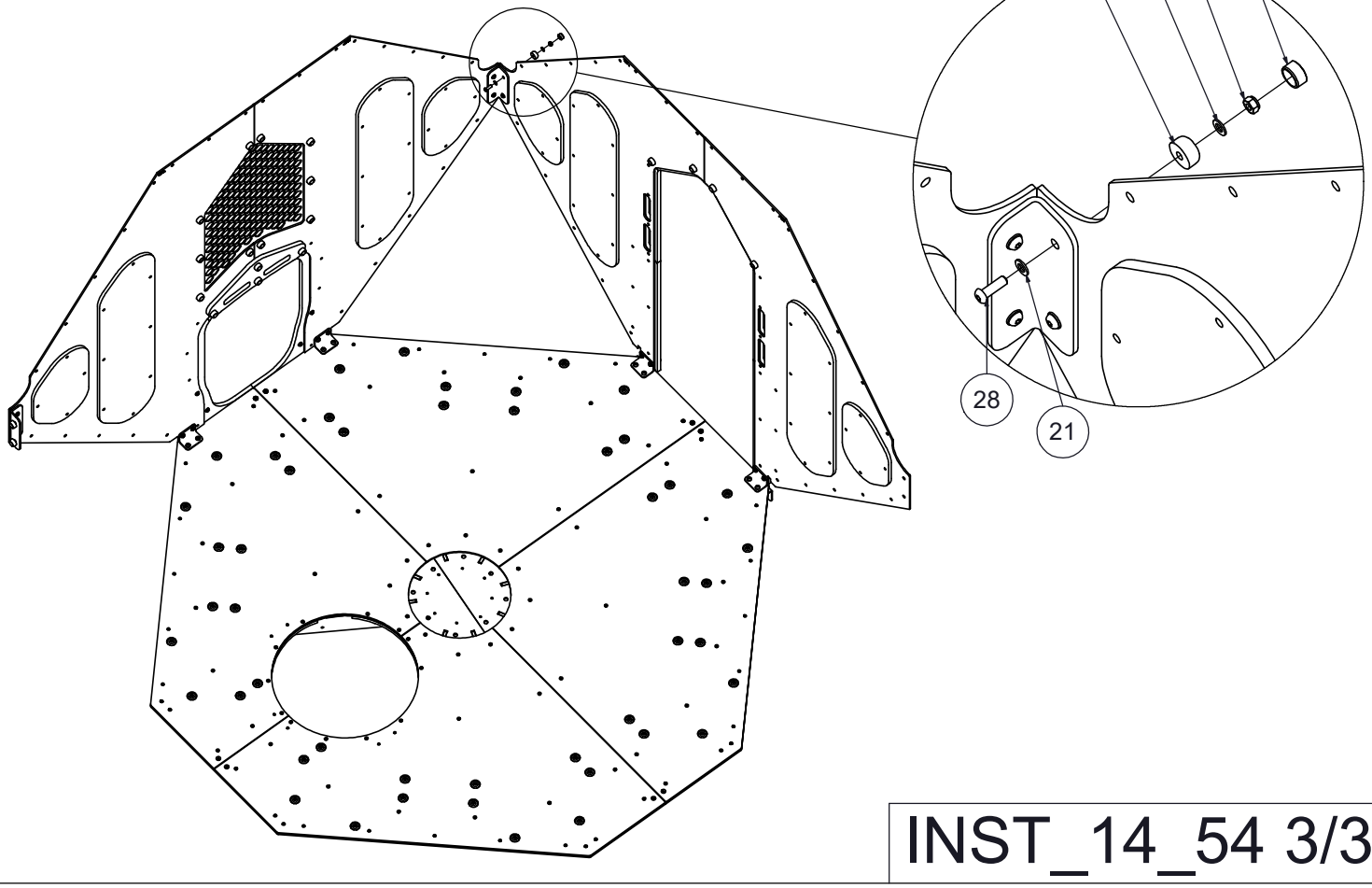


2



3





INST_14_54 3/3

INST_14_60

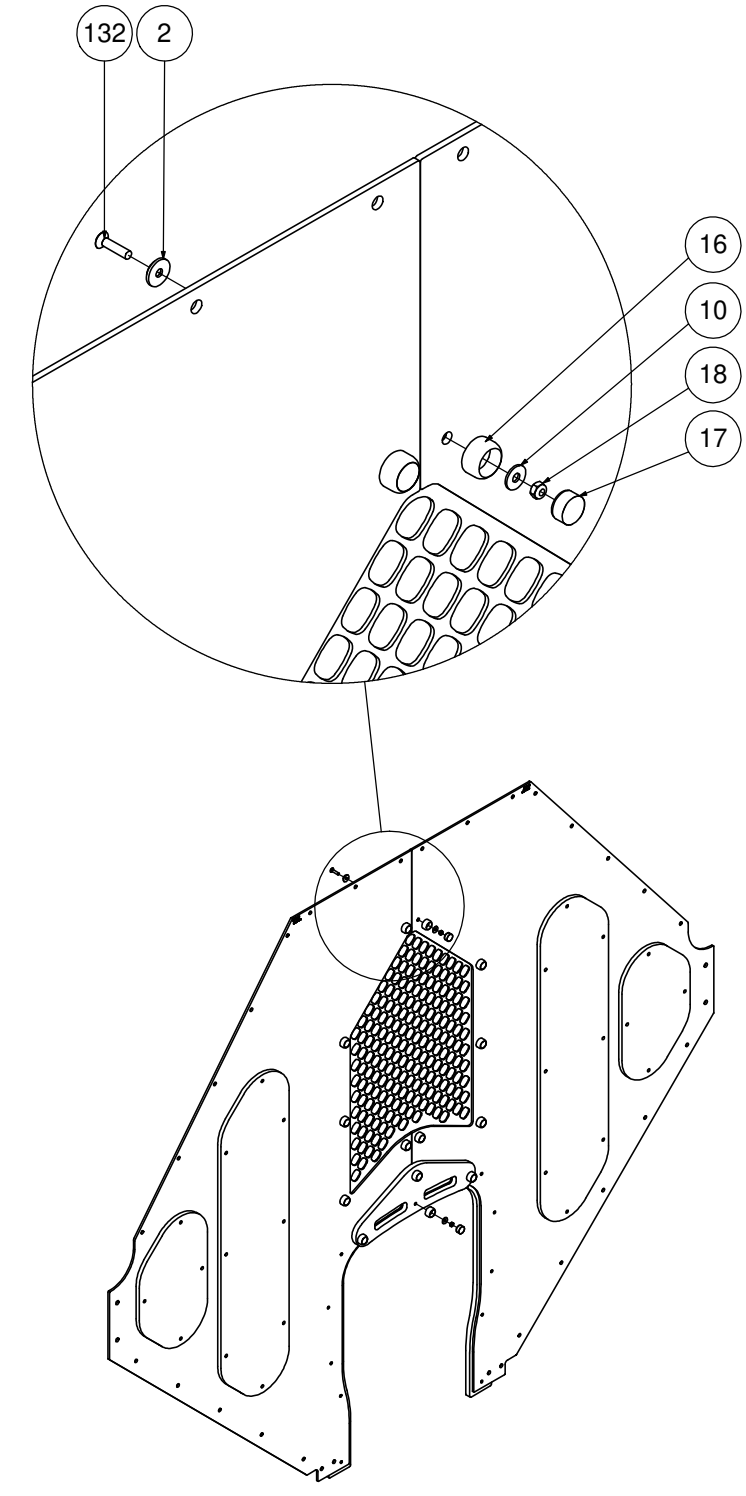


Nr. 4, 5



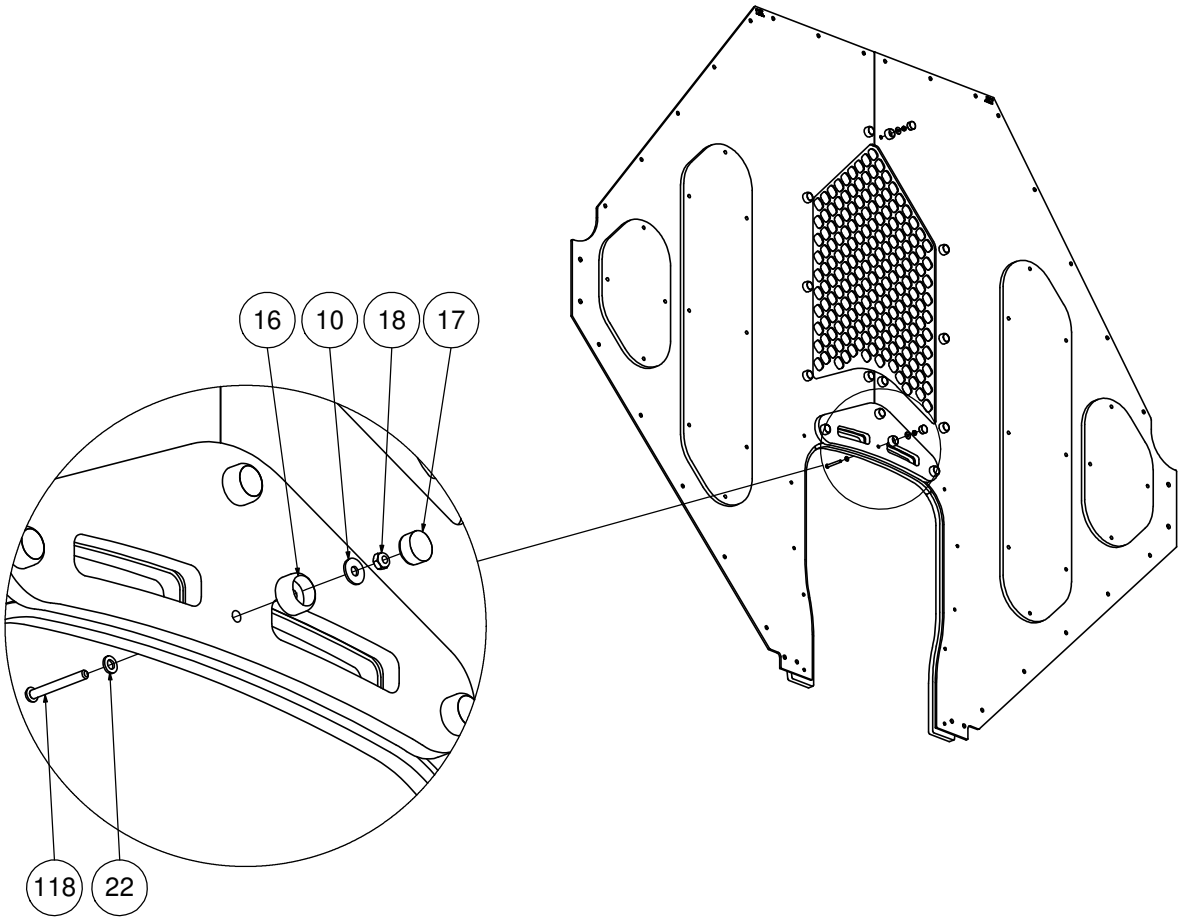
Nr. 10,13

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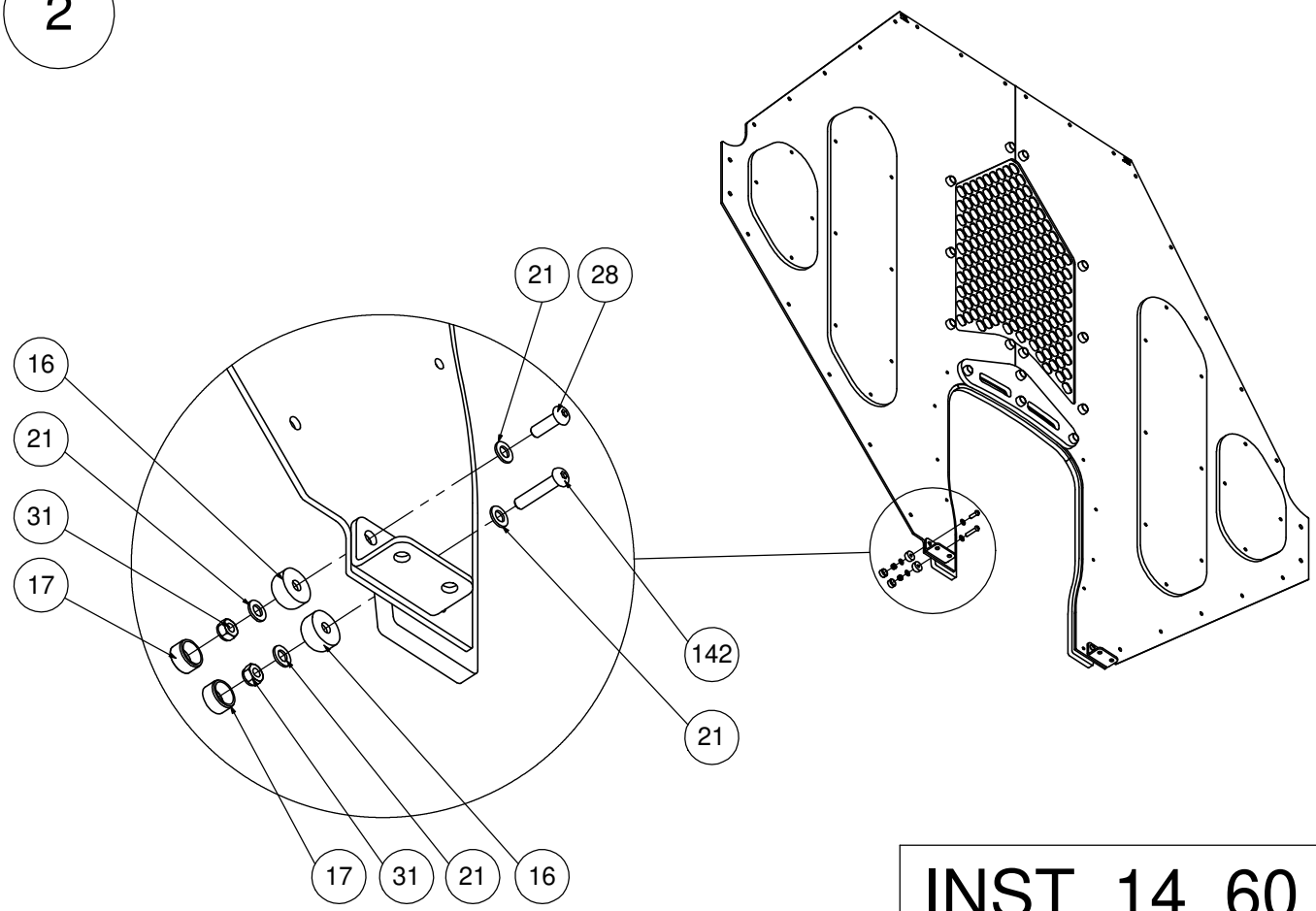


Nr	Σ	Element		
2	10		-	W6x60
10	14		DIN 9021	6x18
16	24		-	K1_d21_B
17	24		-	Z1_d21_B
18	14		DIN 985	M6 (OC)
21	20		DIN 125	8x16
22	4		DIN 125	6x12
28	6		ISO 7380	M8x25
31	10		DIN 985	M8 (OC)
45	2		ISO 7380	M8x30
118	4		ISO 7380	M6x50
132	10		DIN 7991	M6x25
142	2		ISO 7380	M8x40

INST_14_60

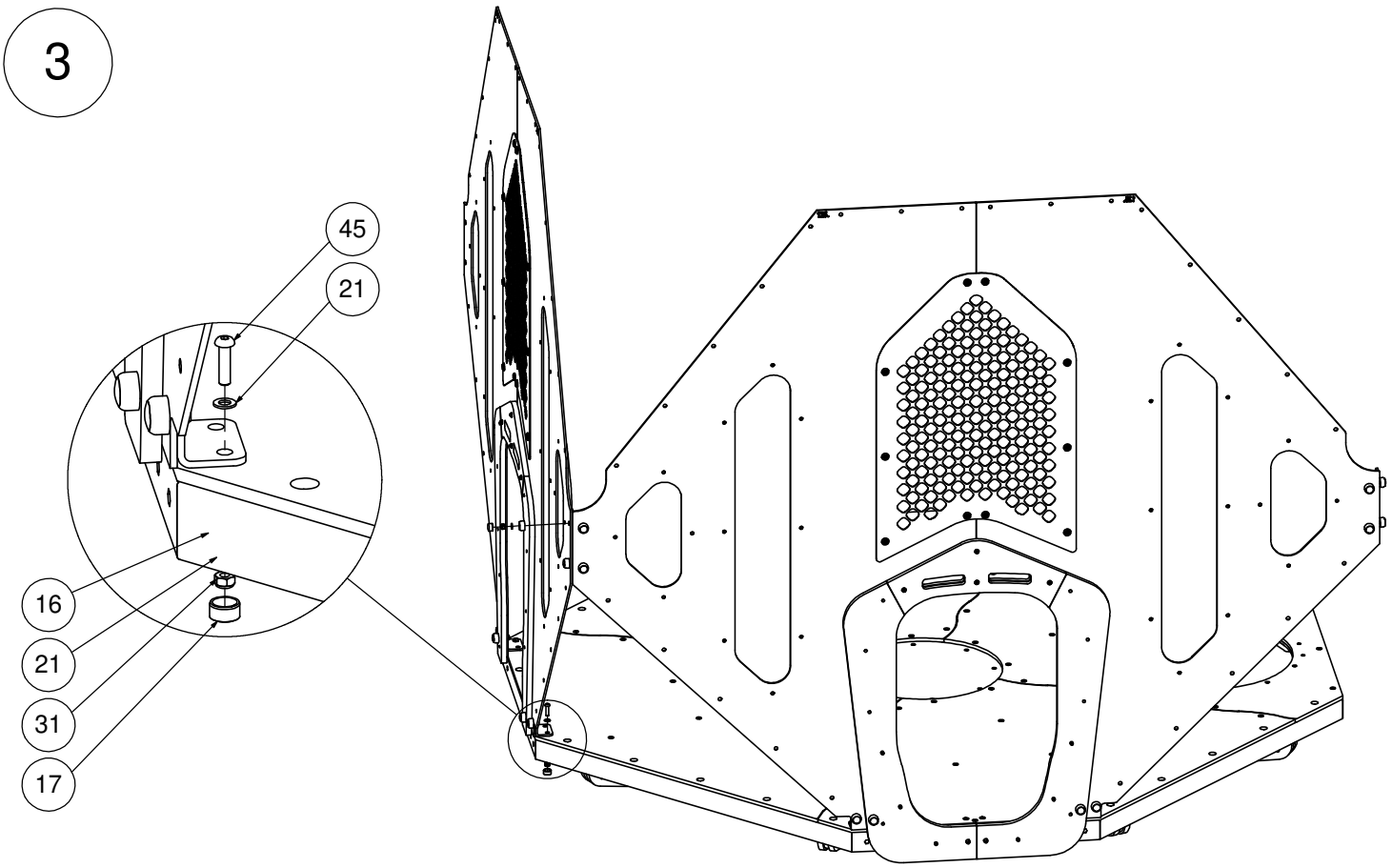


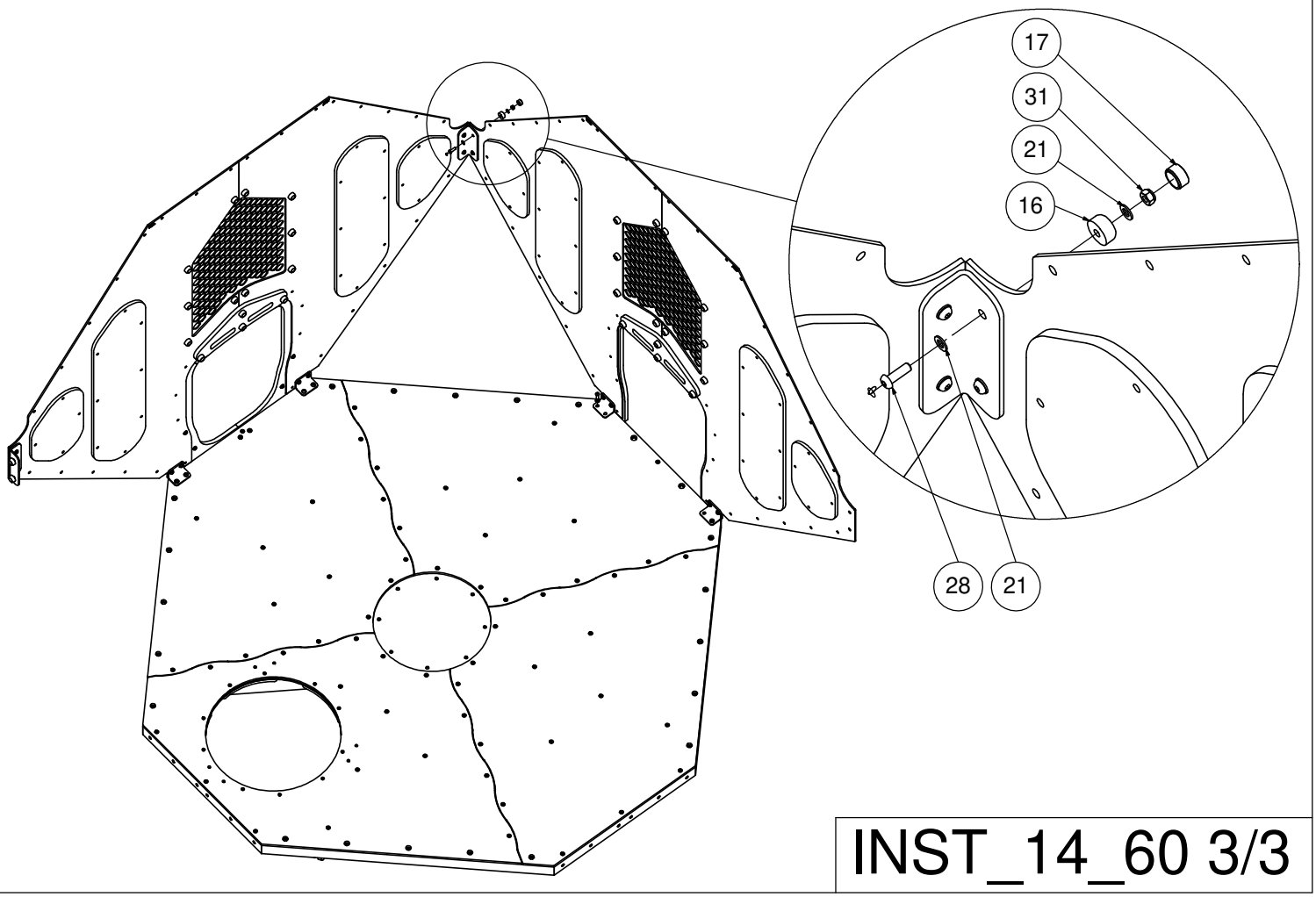
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INST_14_60

3



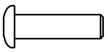


INST_14_68A

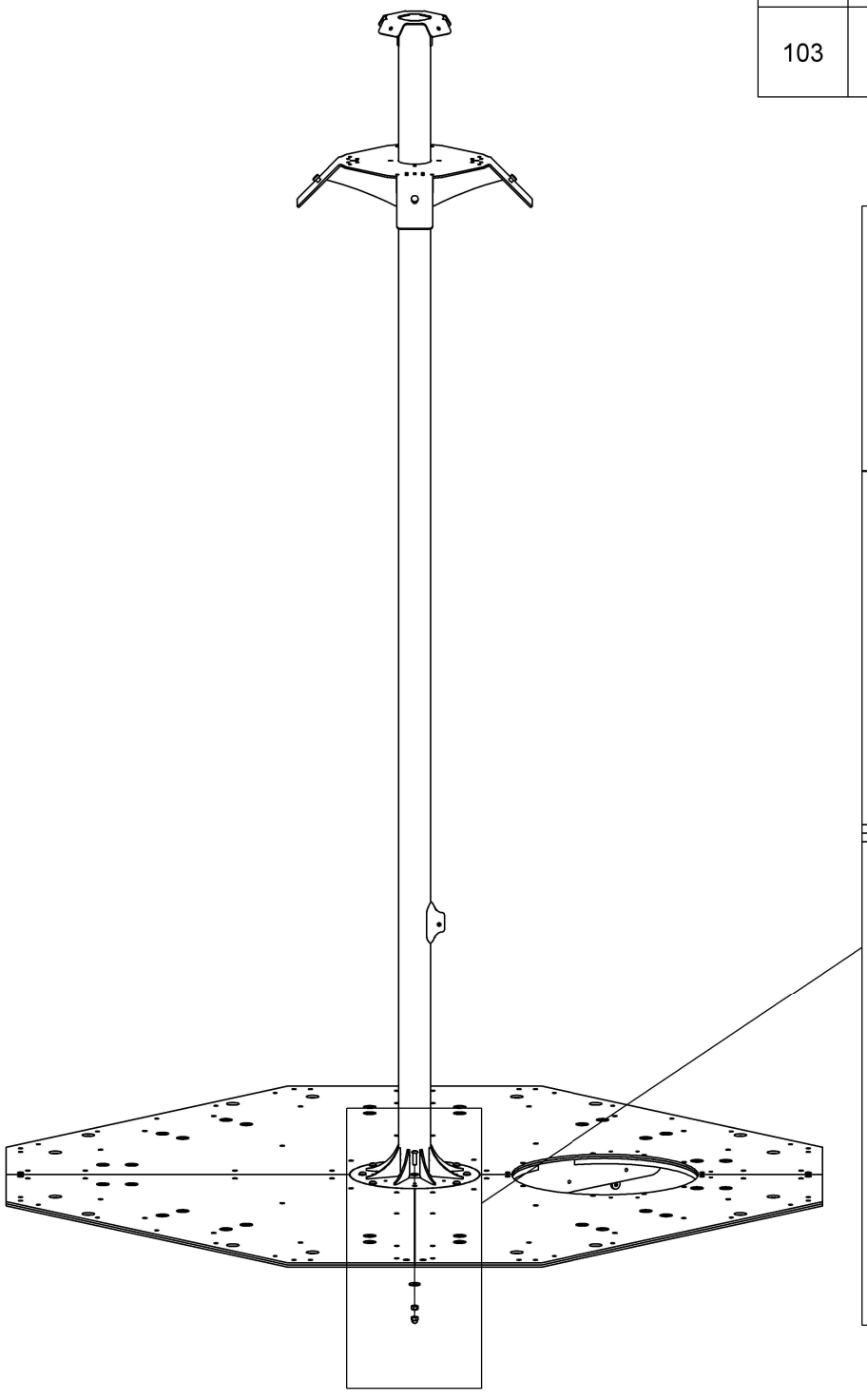


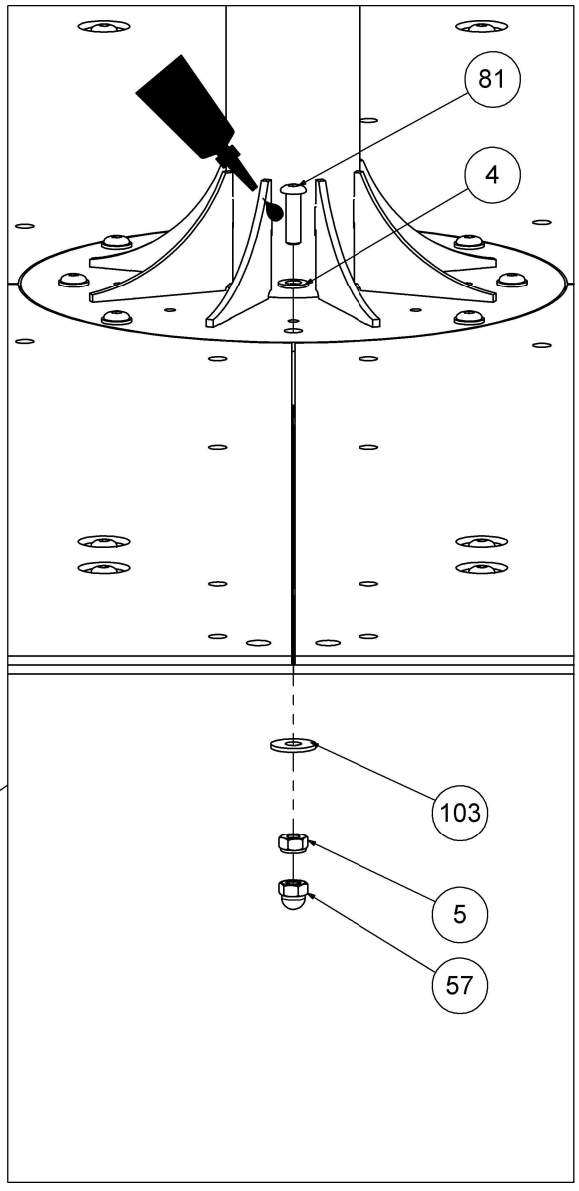


Nr. 6 Nr. 17

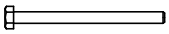
Nr	Σ	Element		
4	8		DIN 125	10x20
5	8		DIN 985	M10
57	8		DIN 1587	M10
58	1		-	LOCTITE
81	8		ISO 7380	M10x35
103	8		DIN 9021	10x30

1

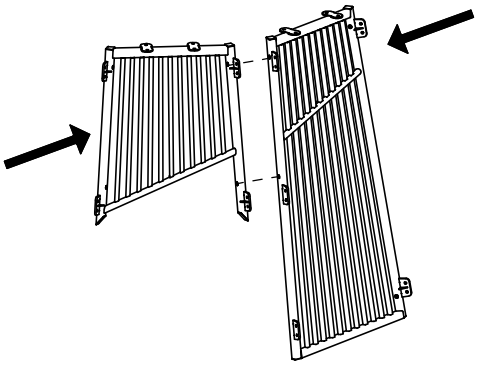




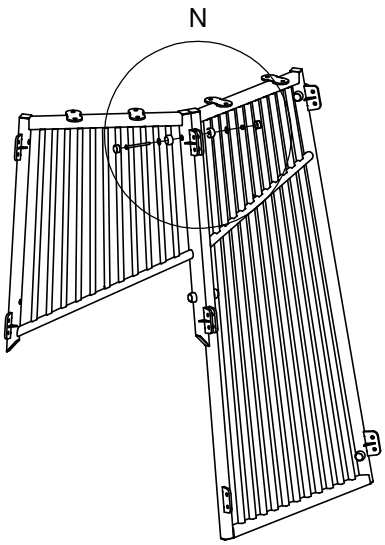
INST_14_132

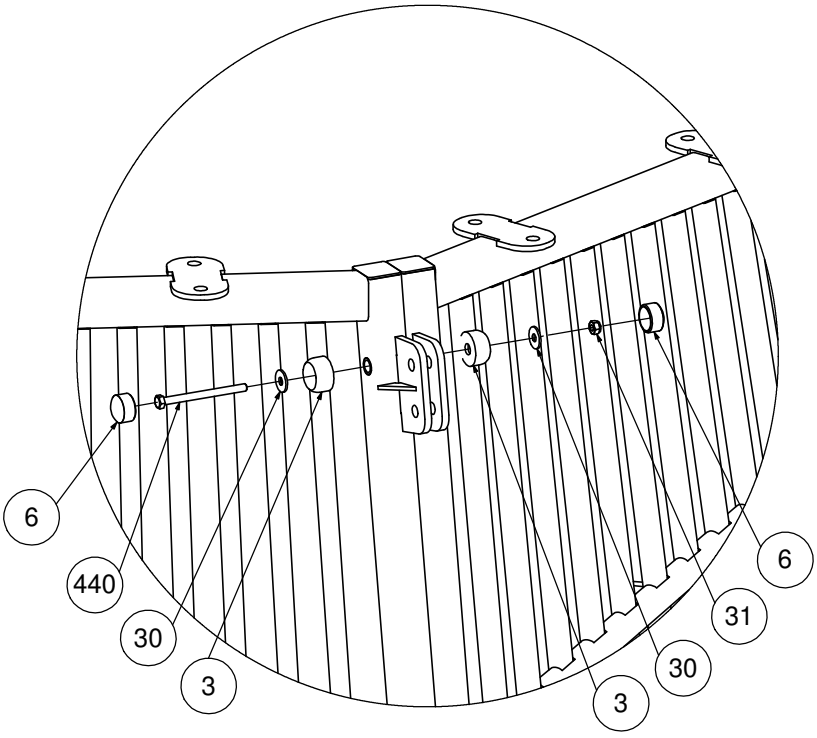
Nr	Σ	Element		
3	4		-	K2_d30_B
6	4		-	Z2_d30_B
30	4		DIN 9021	8x24
31	2		DIN 985	M8 (OC)
440	2		DIN 931	M8x100

1



2

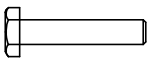




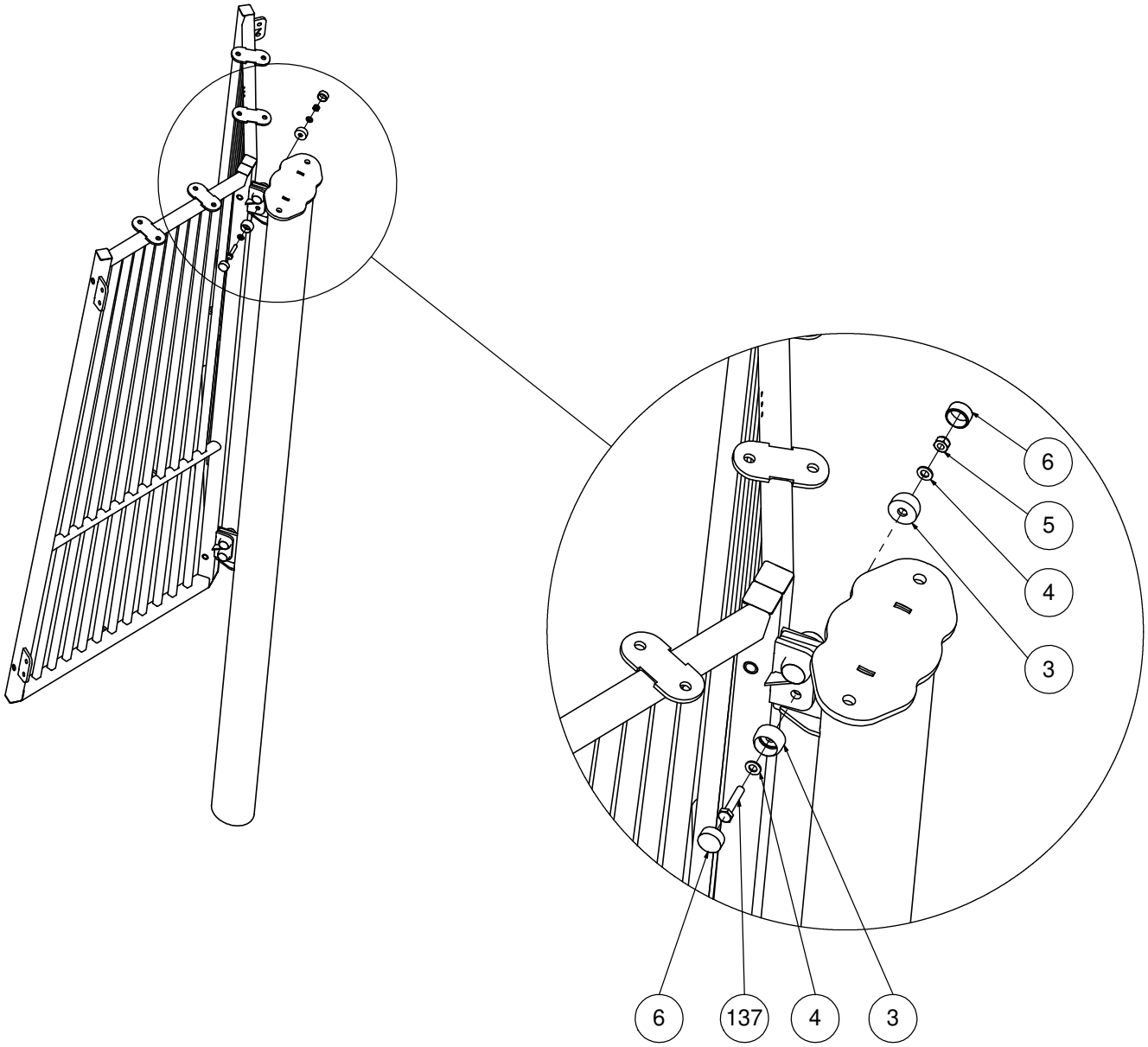
INST_14_133A



Nr. 17

Nr	Σ	Element		
3	8		-	K2_d30_B
4	8		DIN 125	10x20
5	4		DIN 985	M10
6	8		-	Z2_d30_B
137	4		DIN 931	M10x50

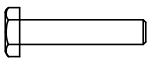
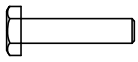
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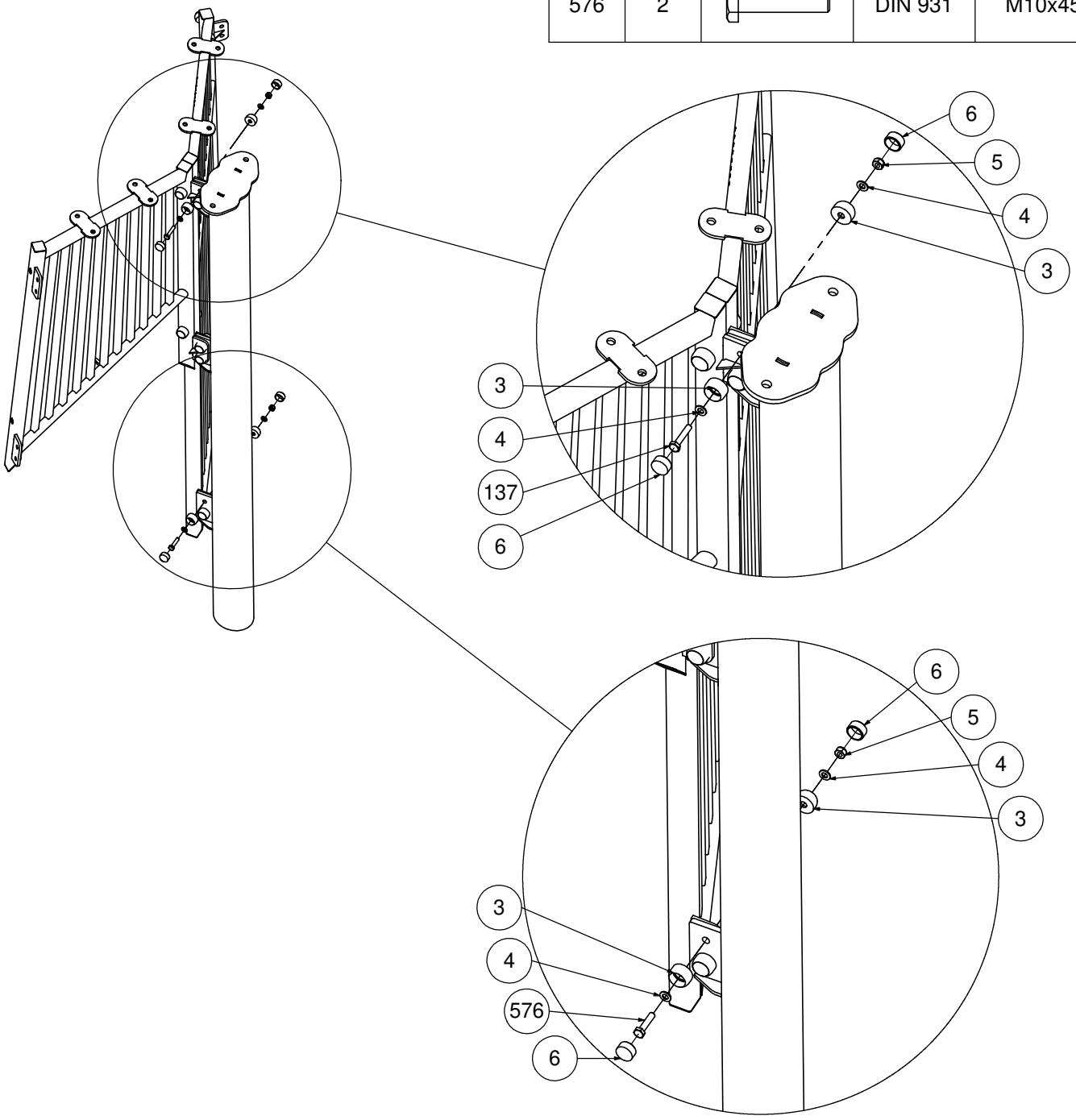
INST_14_133B



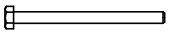
Nr. 17

Nr	Σ	Element		
3	12		-	K2_d30_B
4	12		DIN 125	10x20
5	6		DIN 985	M10
6	12		-	Z2_d30_B
137	4		DIN 931	M10x50
576	2		DIN 931	M10x45

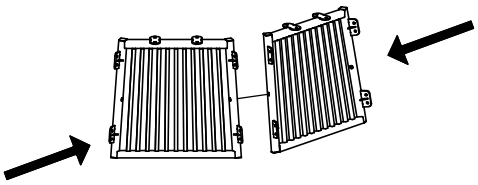
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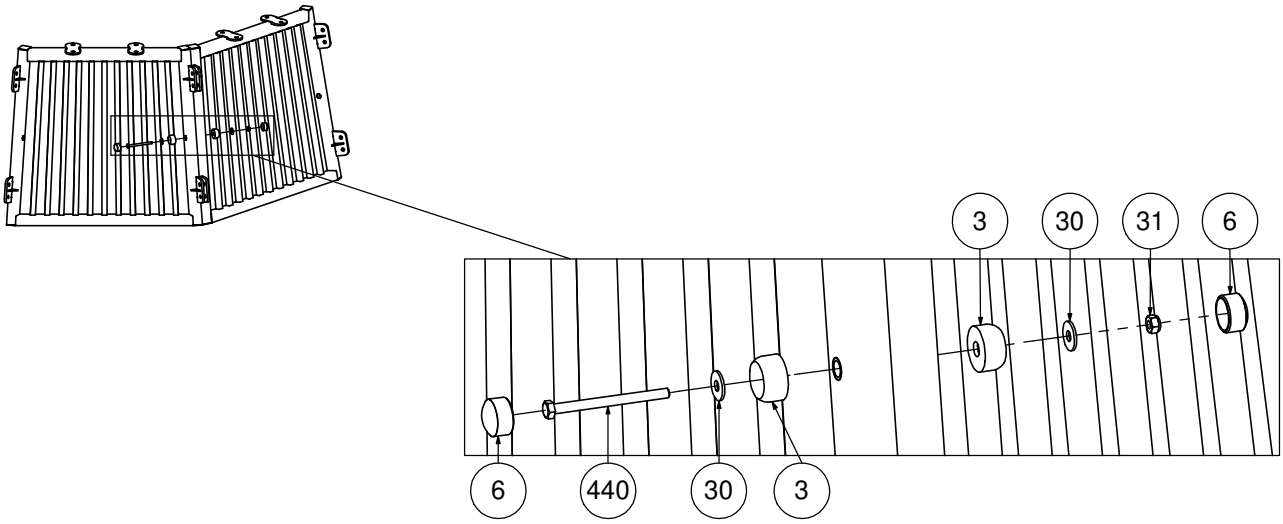
INST_14_134

Nr	Σ	Element		
3	2		-	K2_d30_B
6	2		-	Z2_d30_B
30	2		DIN 9021	8x24
31	1		DIN 985	M8 (OC)
440	1		DIN 931	M8x100

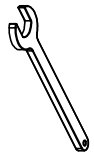
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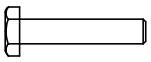
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INST_14_135



Nr. 17

Nr	Σ	Element	DIN	ELEMENT
3	8		-	K2_d30_B
4	8		DIN 125	10x20
5	4		DIN 985	M10
6	8		-	Z2_d30_B
137	4		DIN 931	M10x50

1

INST_14_137



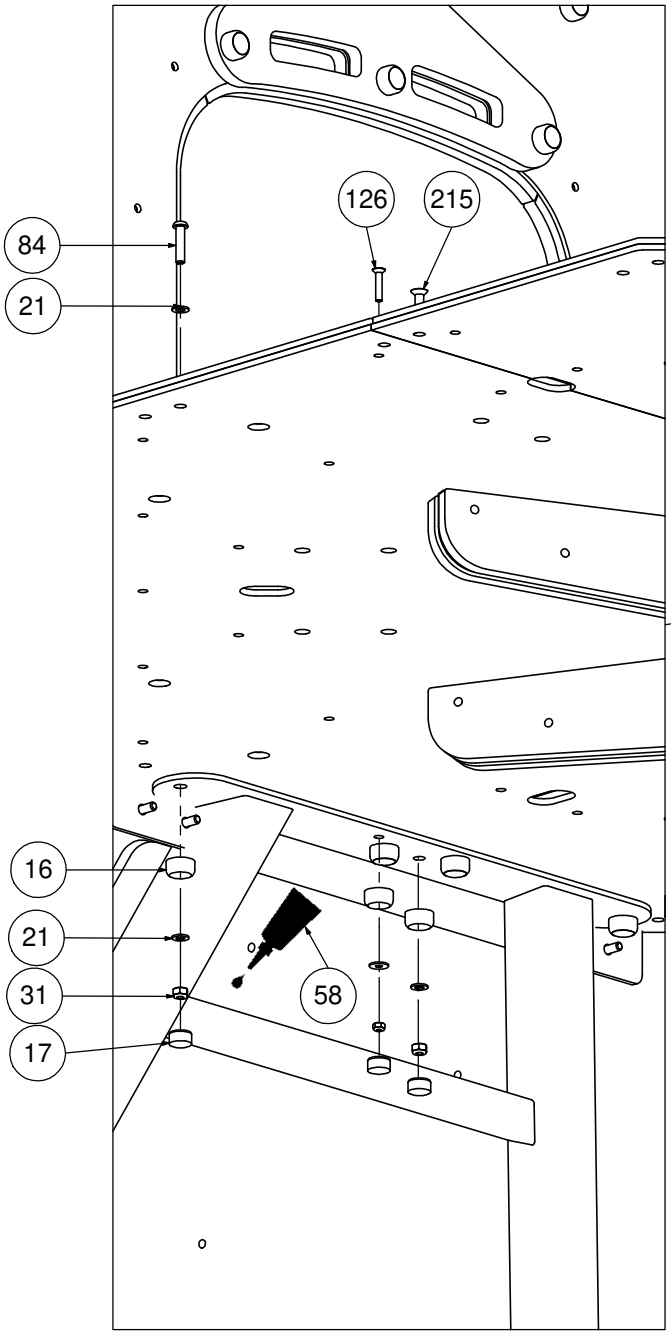
Nr. 4, 5

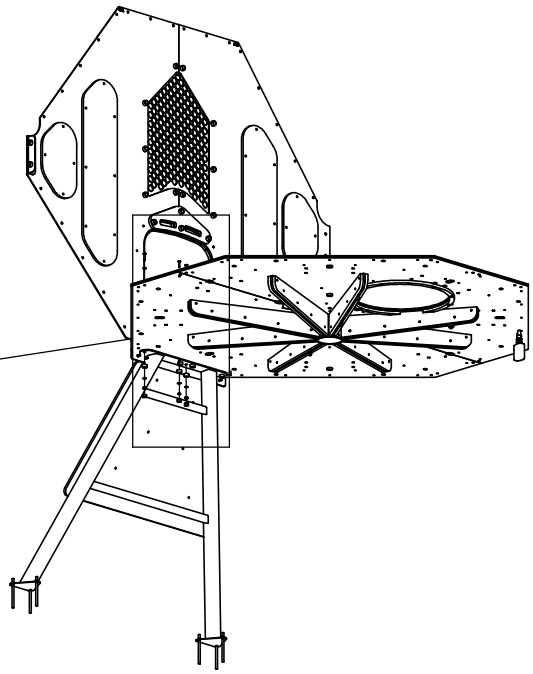


Nr. 13

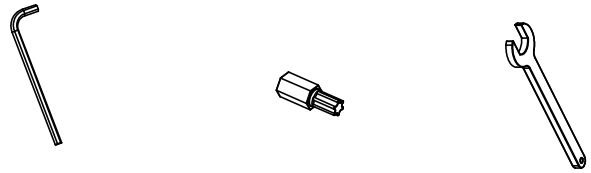
Nr	Σ	Element	DIN	ELEMENT
16	6		-	K1_d21_B
17	6		-	Z1_d21_B
21	6		DIN 125	8x16
31	4		DIN 985	M8 (OC)
58	1		-	LOCTITE
84	2		ISO 7380	M8x35
126	2		DIN 7991	M6x30
215	2		DIN 7991	M8x30

1

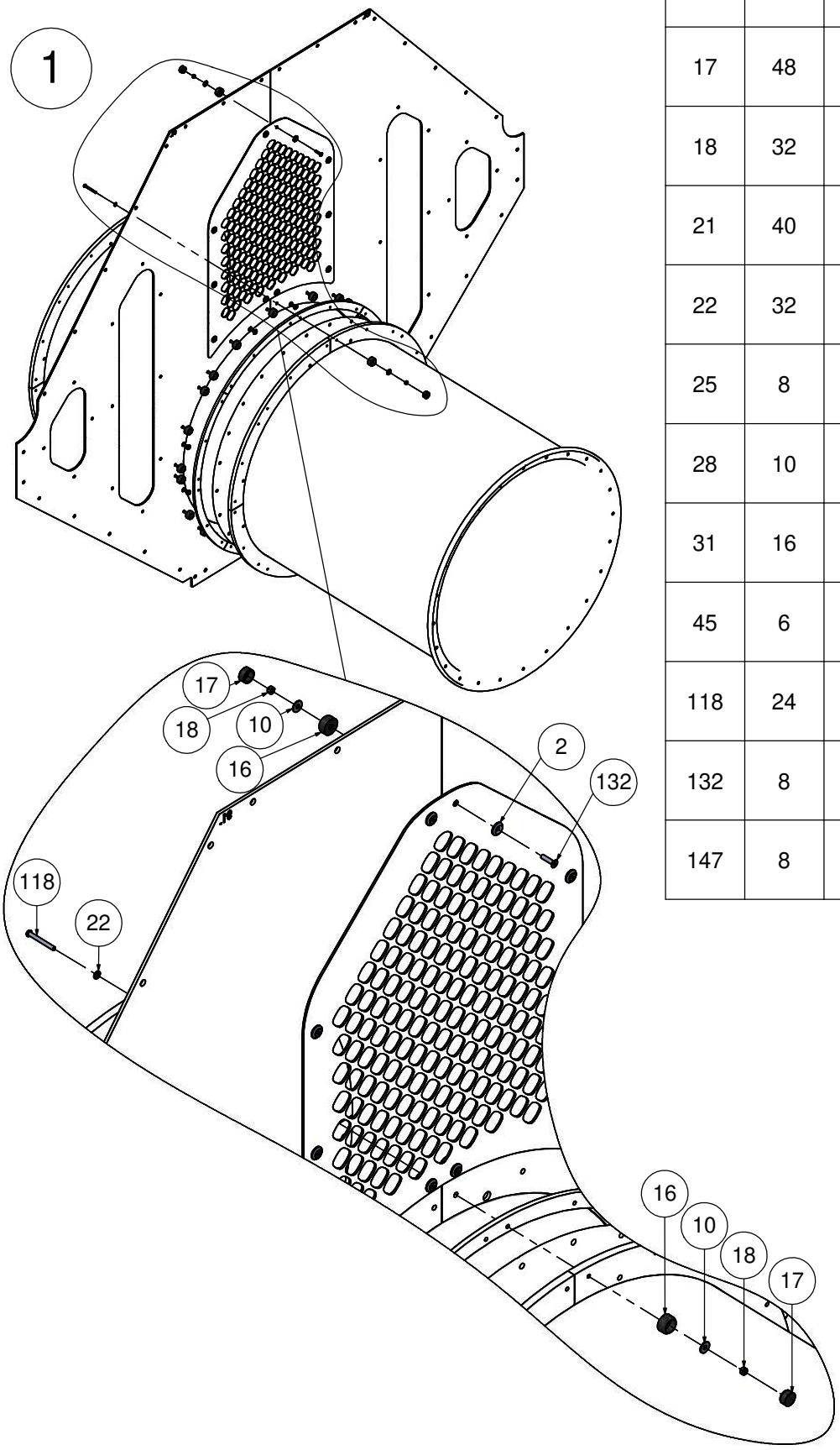




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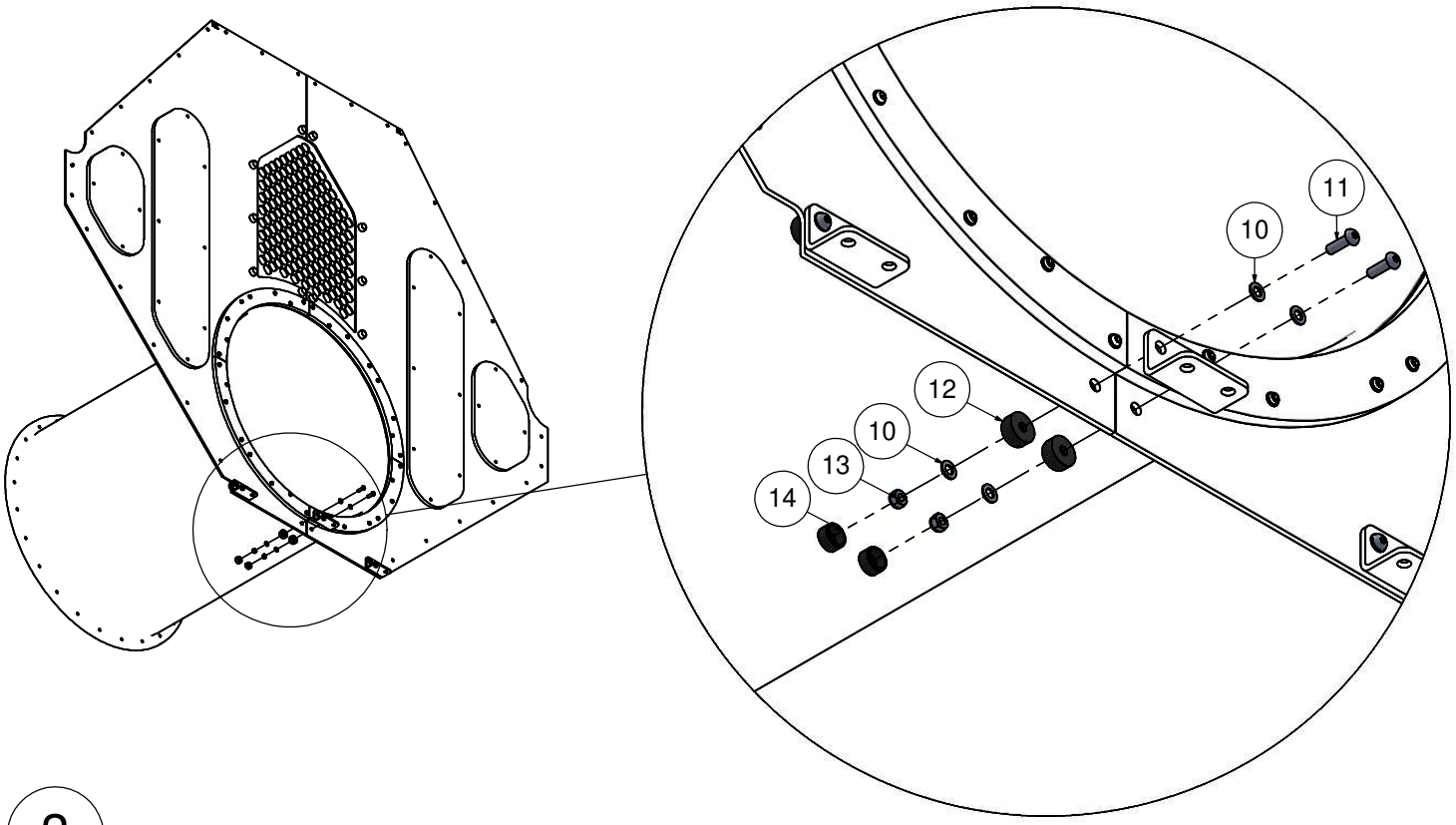
Nr. 4, 5 Nr. T30 Nr. 10, 13



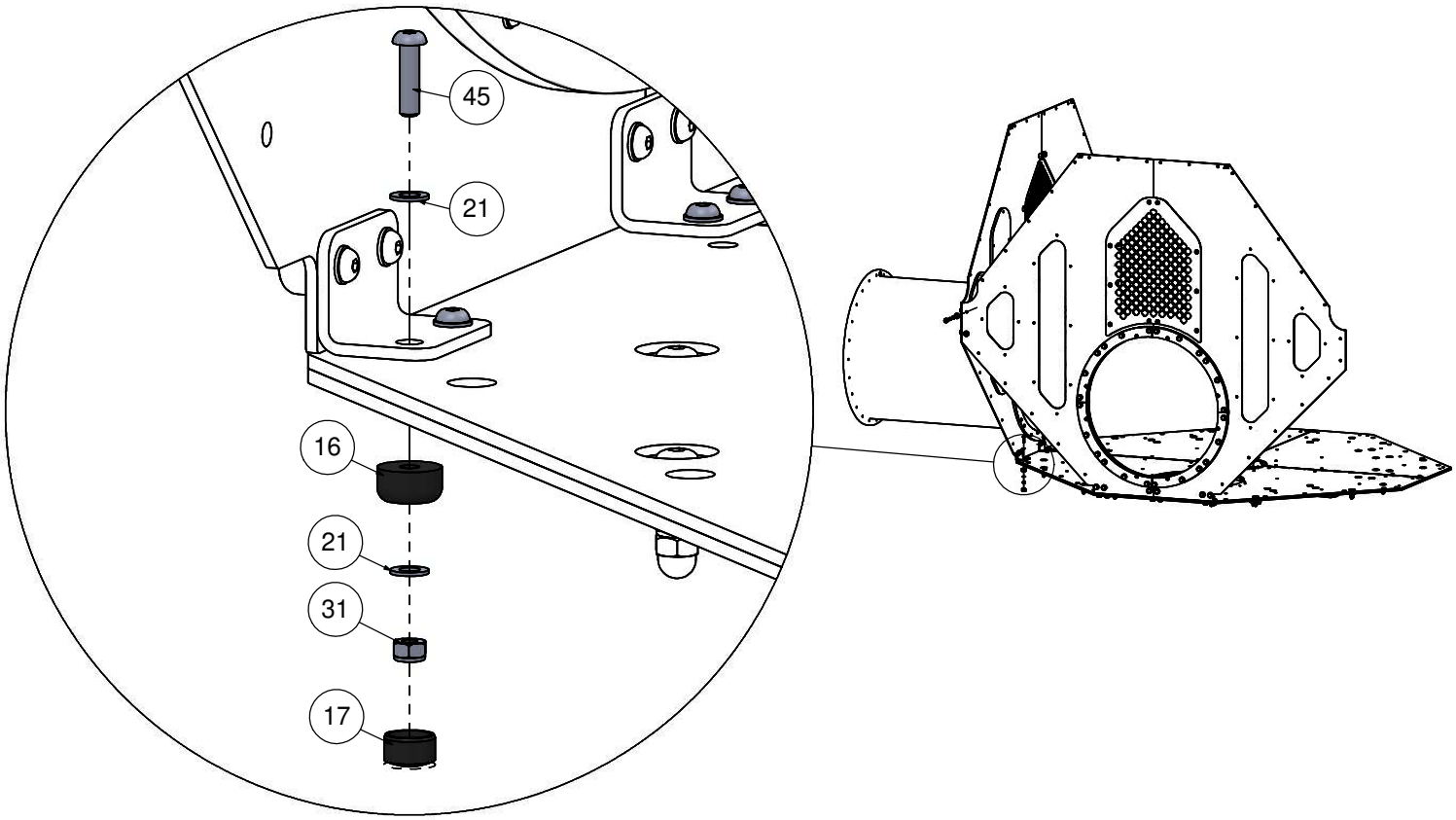
Nr	Σ	Element		
2	8		-	W6x60
10	32		DIN 9021	6x18
16	48		-	K1_d21_B
17	48		-	Z1_d21_B
18	32		DIN 985	M6 (OC)
21	40		DIN 125	8x16
22	32		DIN 125	6x12
25	8		ISO 7380	M6x35
28	10		ISO 7380	M8x25
31	16		DIN 985	M8 (OC)
45	6		ISO 7380	M8x30
118	24		ISO 7380	M6x50
132	8		DIN 7991	M6x25
147	8		-	M6x10

INST_14_139

2

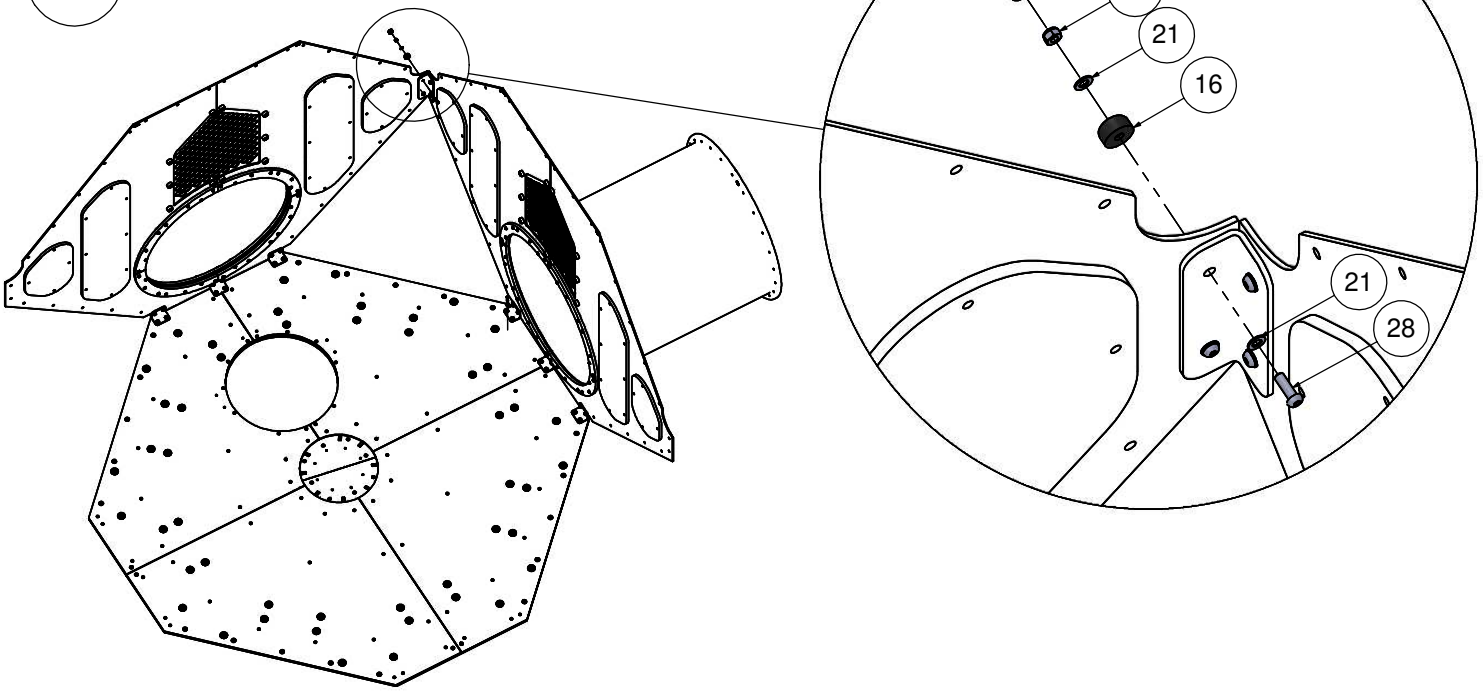


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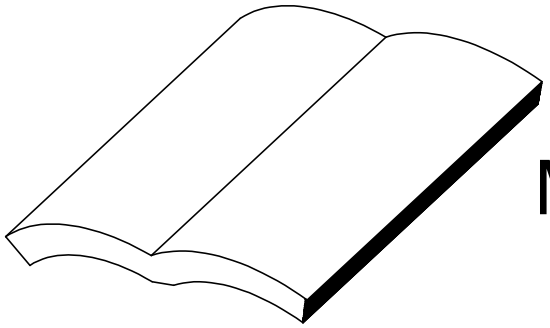


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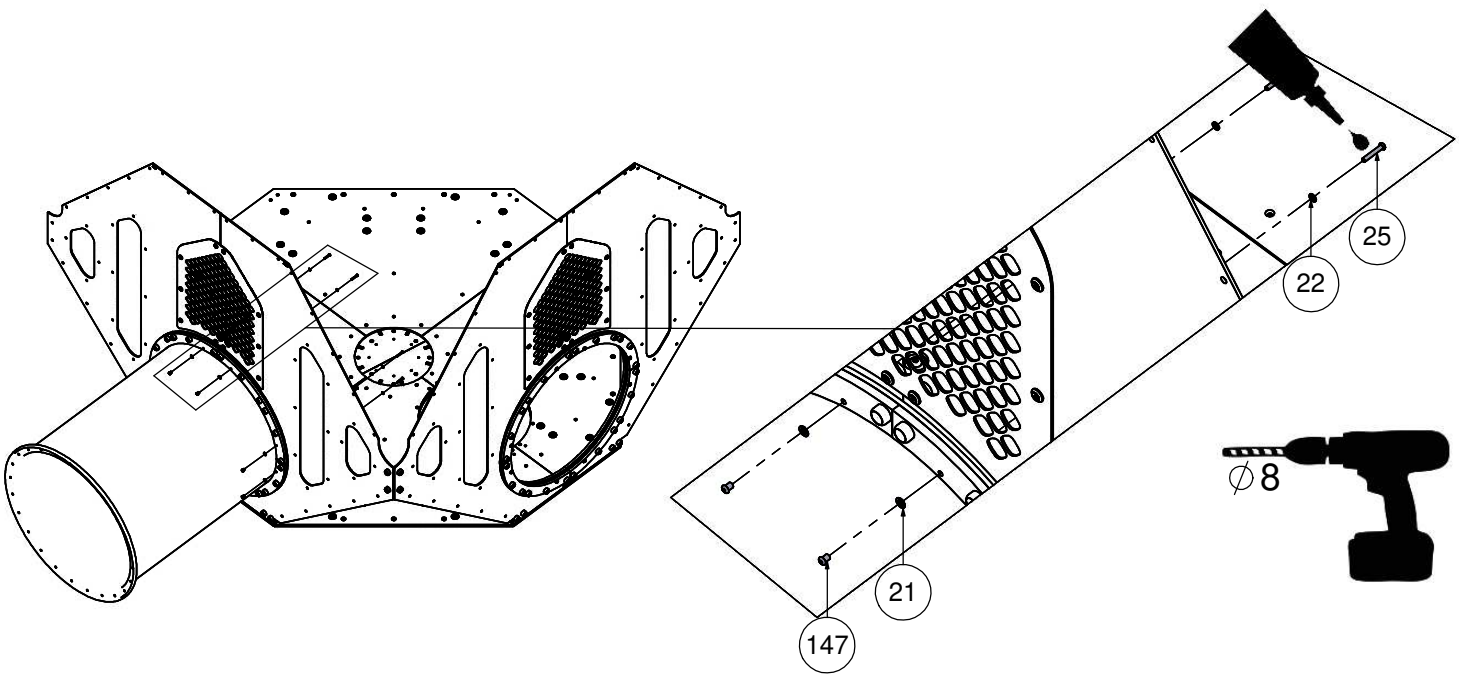


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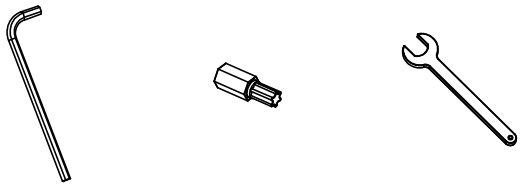


MTS....

5

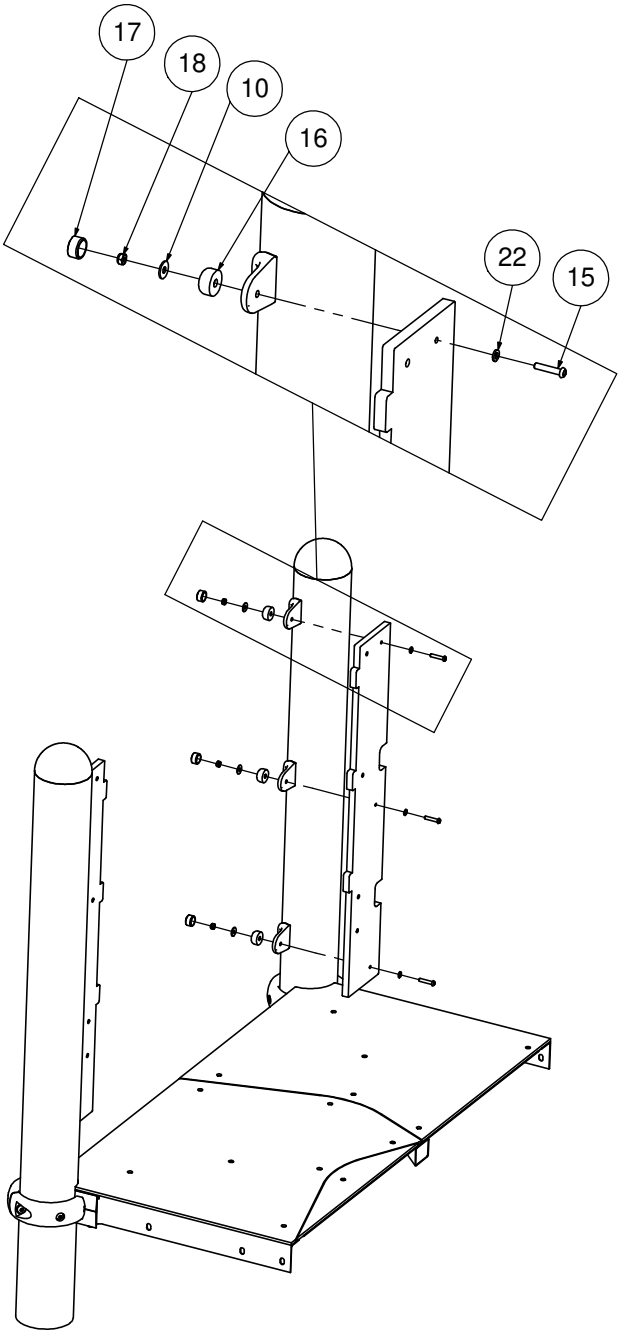


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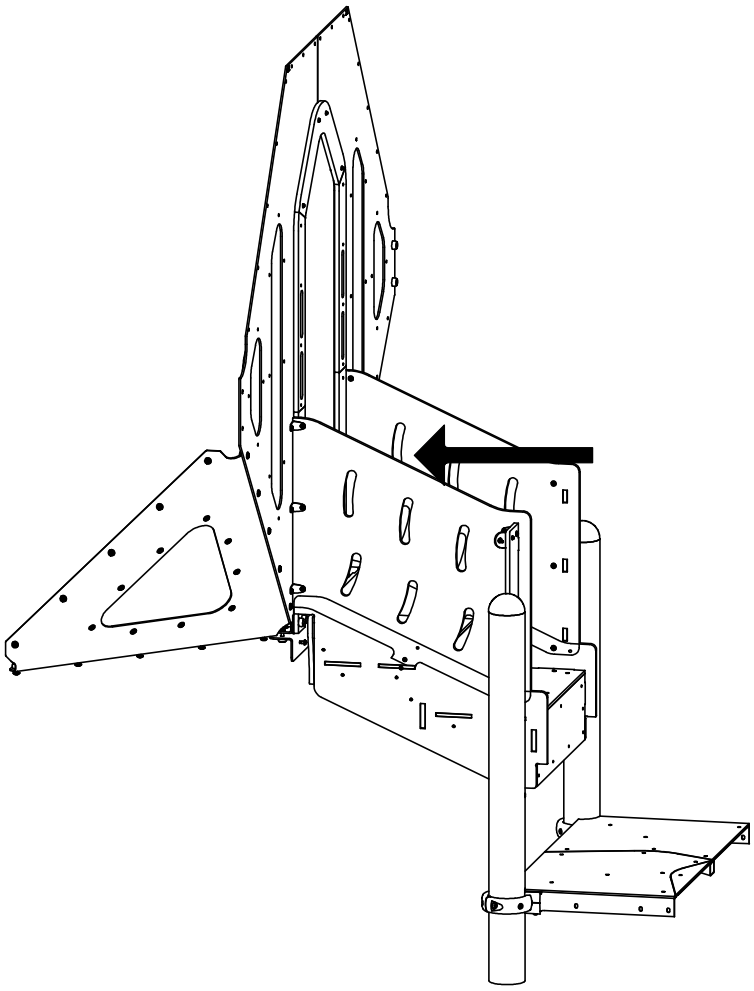
Nr. 4 Nr. T30 Nr. 10

1

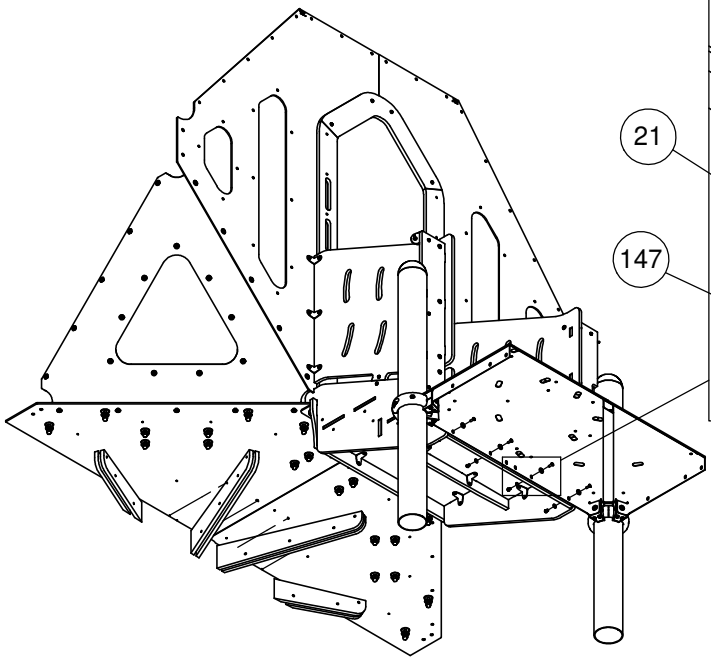


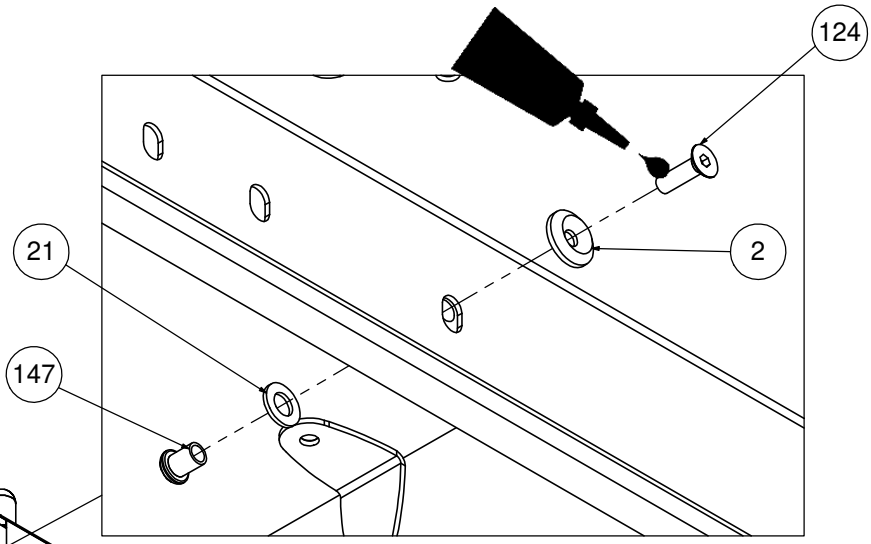
Nr	Σ	Element		
2	4		-	W6x60
9	4		ISO 7380	M6x25
10	12		DIN 9021	6x18
13	6		ISO 7380	M6x20
14	22		ISO 7380	M6x12
15	6		ISO 7380	M6x30
16	12	ϕ2,1	-	K1_d21_B
17	12	ϕ2,1	-	Z1_d21_B
18	12		DIN 985	M6 (OC)
21	34		DIN 125	8x16
22	42		DIN 125	6x12
24	4		-	M6x16
58	1		-	LOCTITE
29	14		-	K_5_A2_g2_G_v2
98	2		-	F20X_44_HP_g13
124	4		DIN 7991	M6x20
147	34		-	M6x10

2

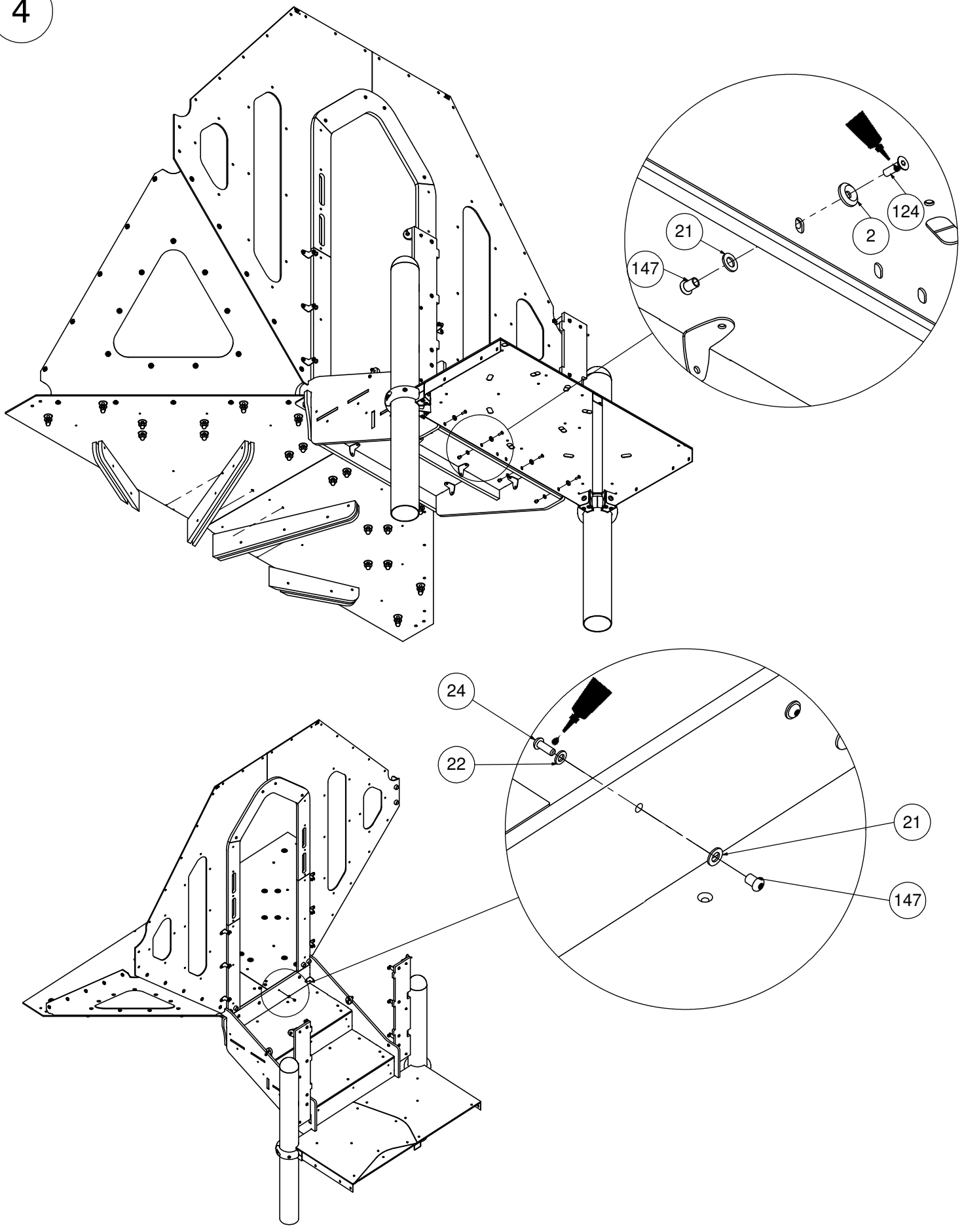


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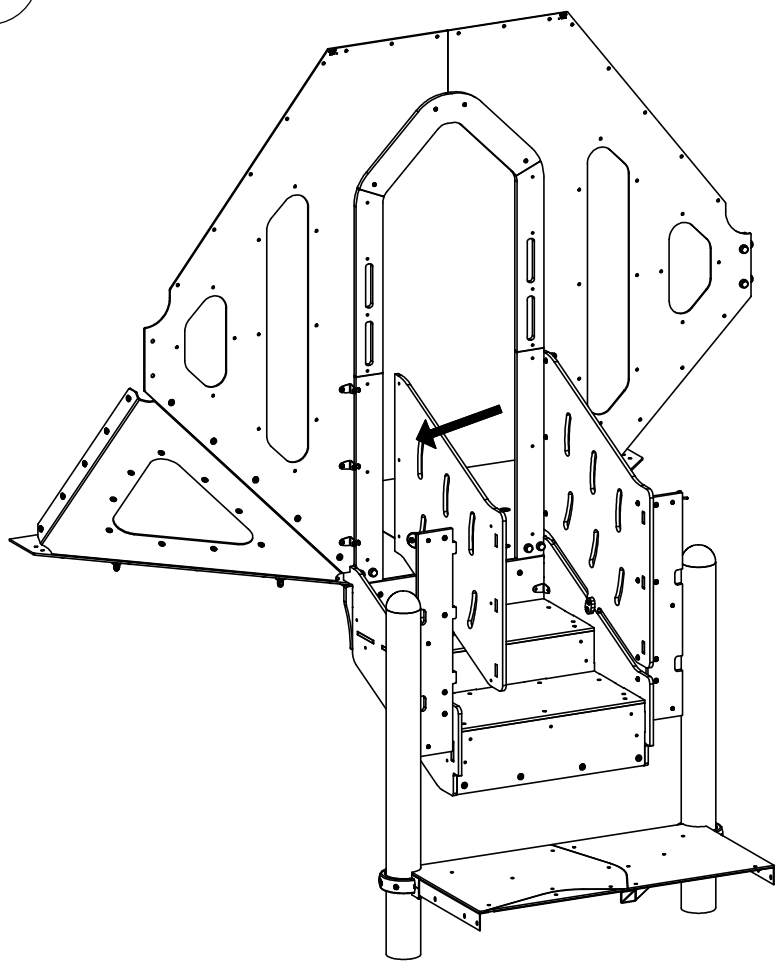




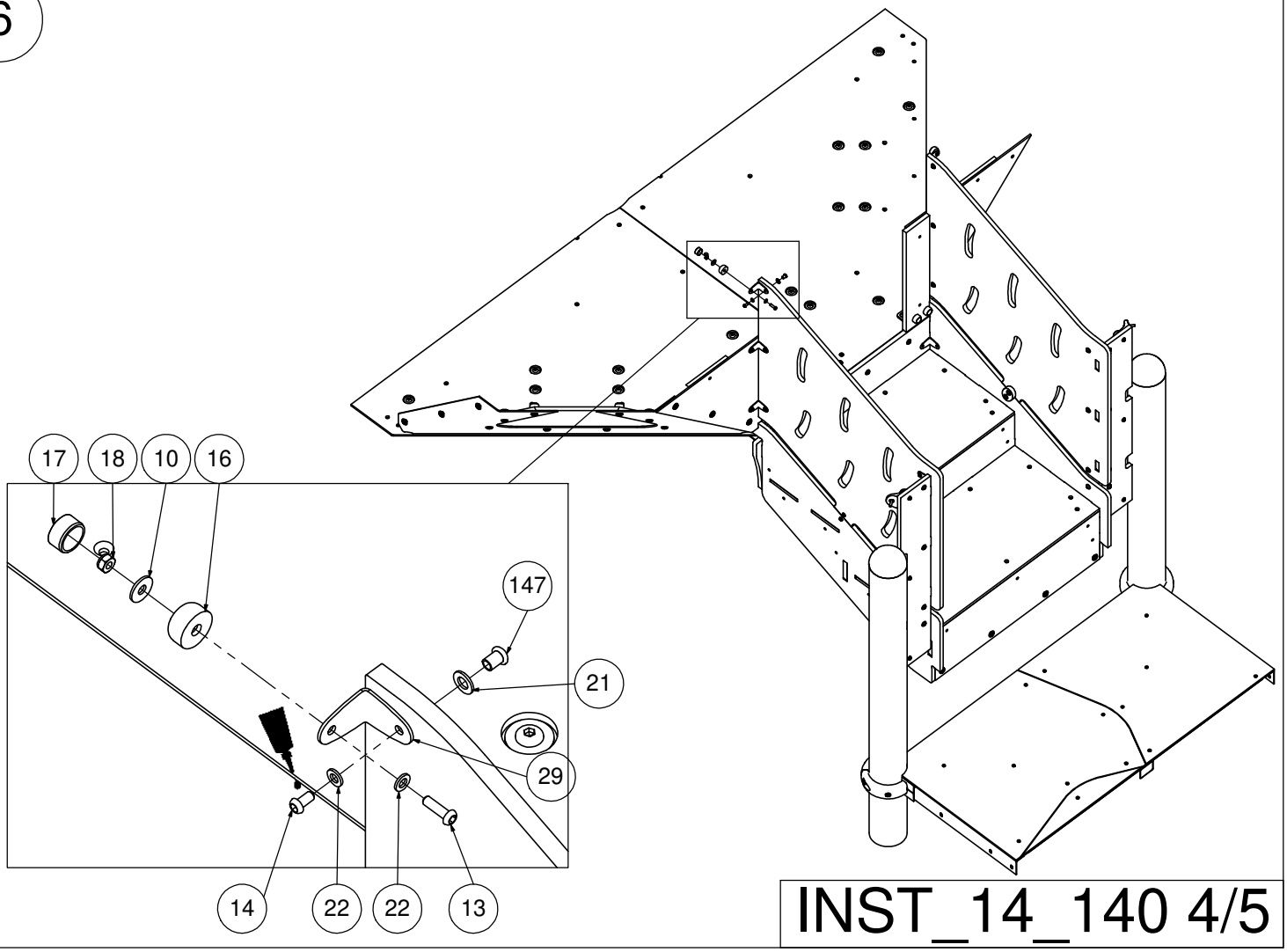
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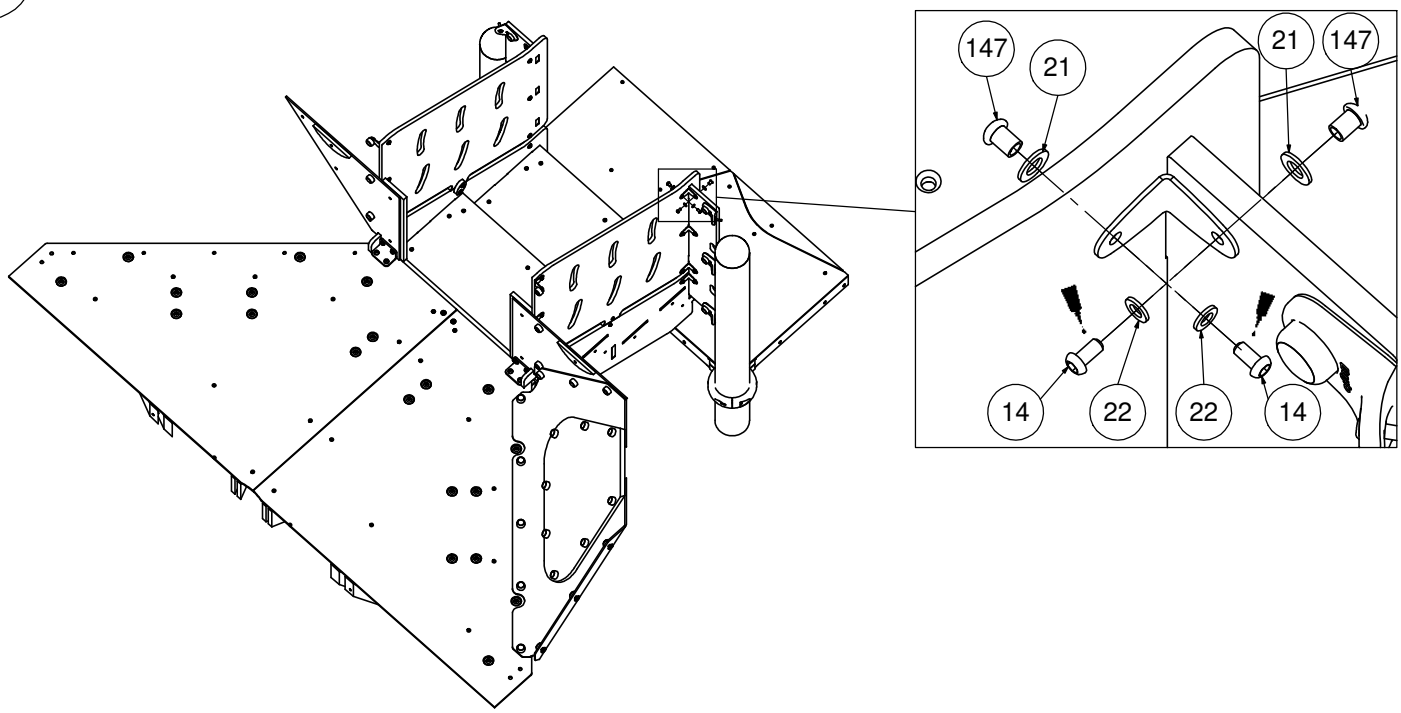
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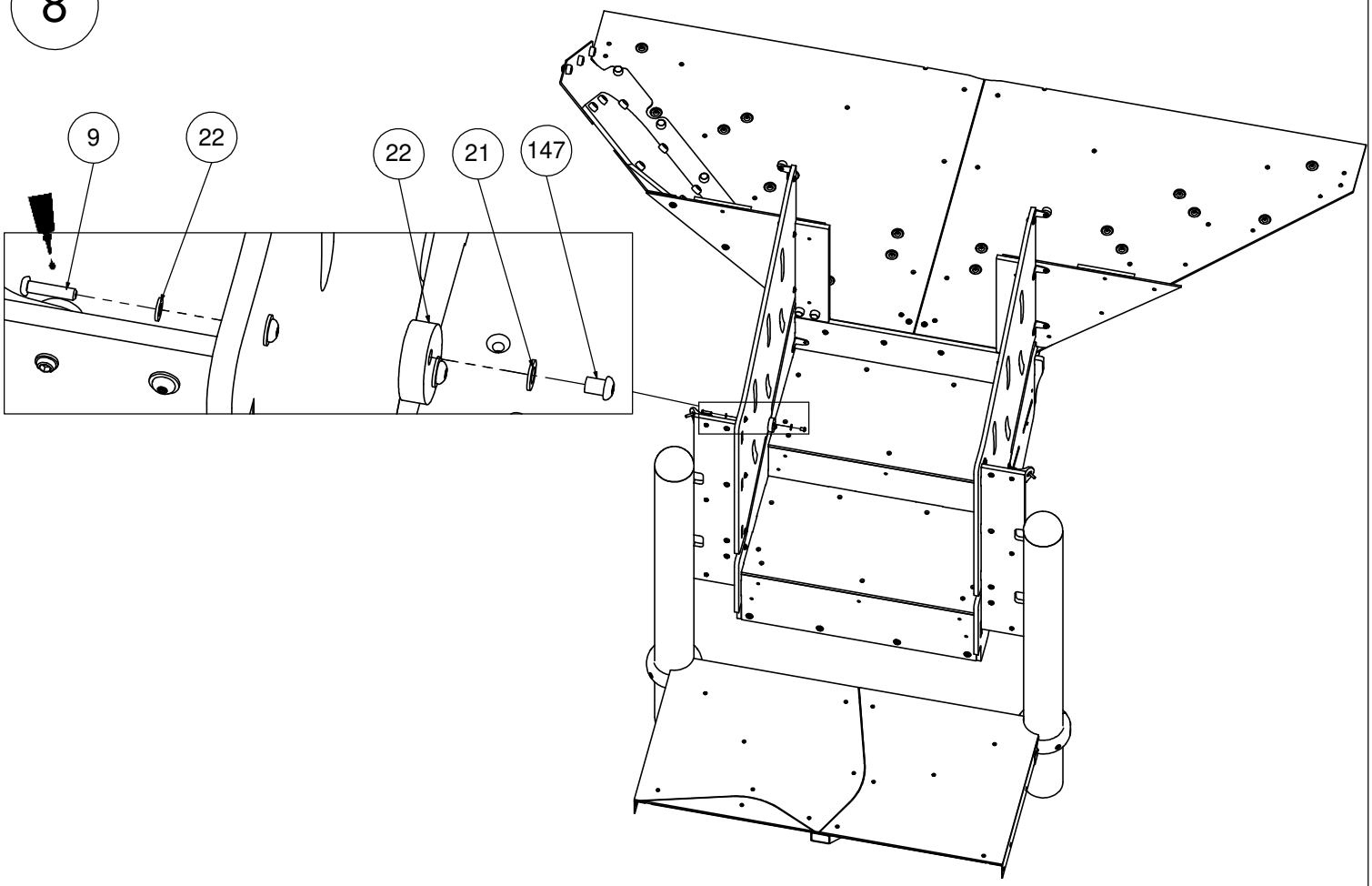
6



7



8



INST_14_141



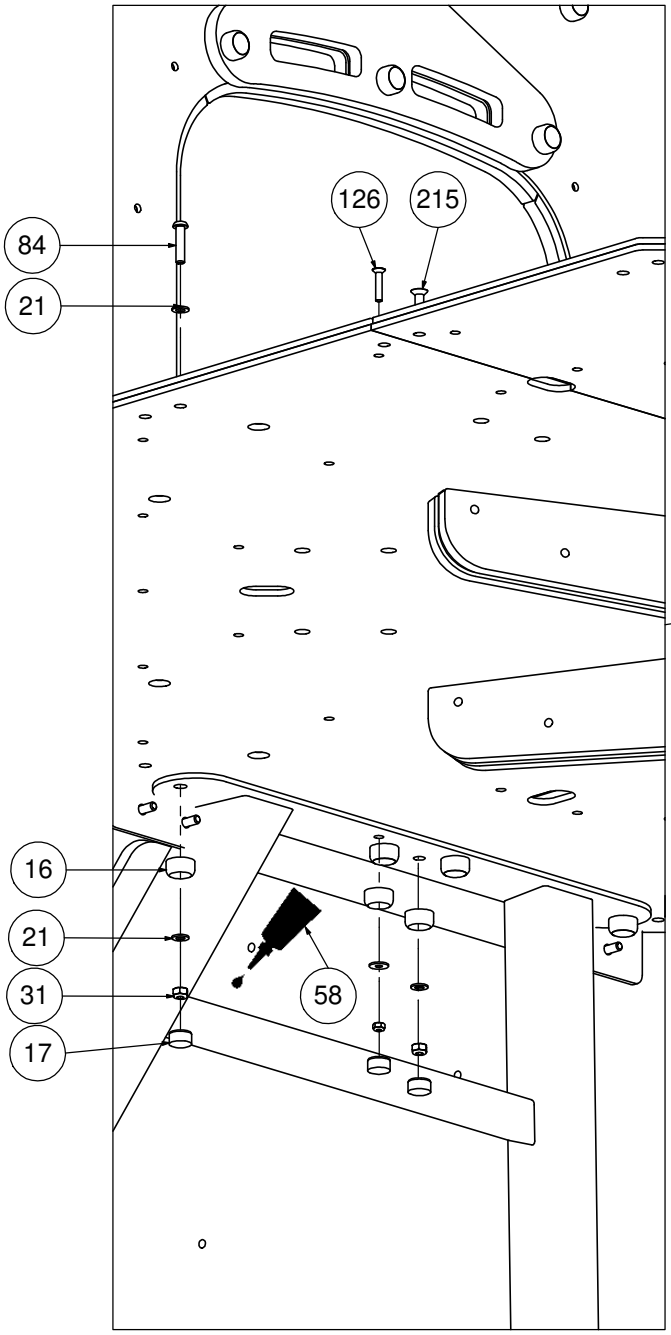
Nr. 4, 5

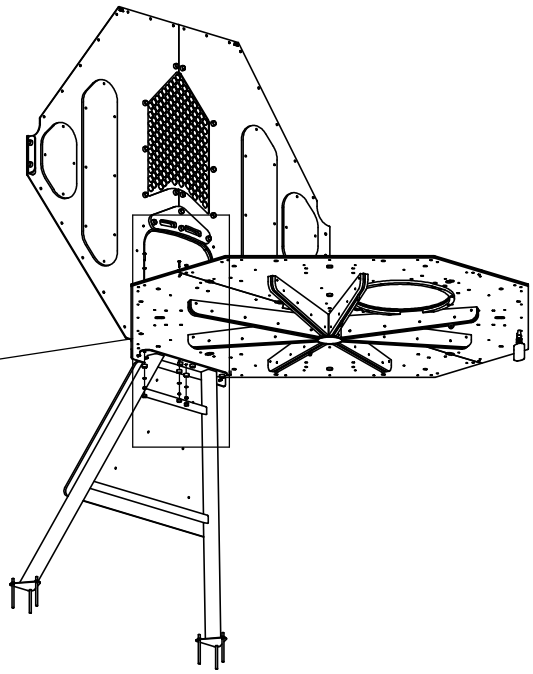


Nr. 13

Nr	Σ	Element	DIN	ELEMENT
16	6		-	K1_d21_B
17	6		-	Z1_d21_B
21	6		DIN 125	8x16
31	4		DIN 985	M8 (OC)
58	1		-	LOCTITE
84	2		ISO 7380	M8x35
126	2		DIN 7991	M6x30
215	2		DIN 7991	M8x30

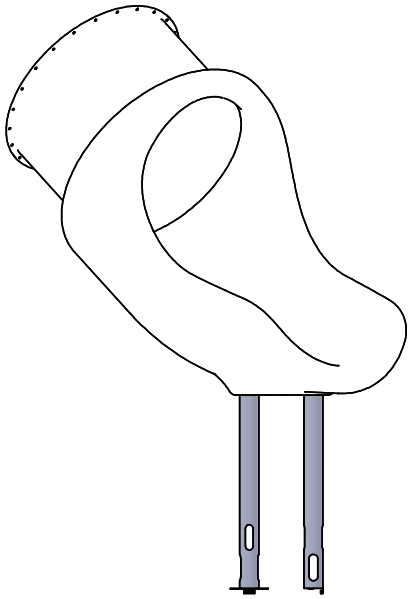
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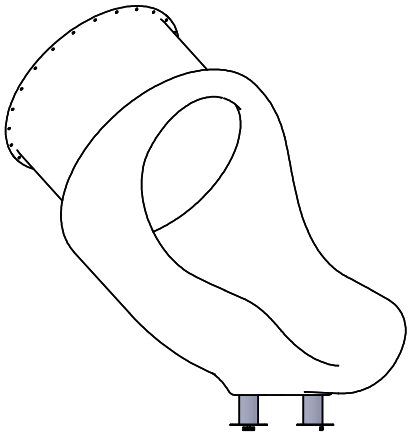


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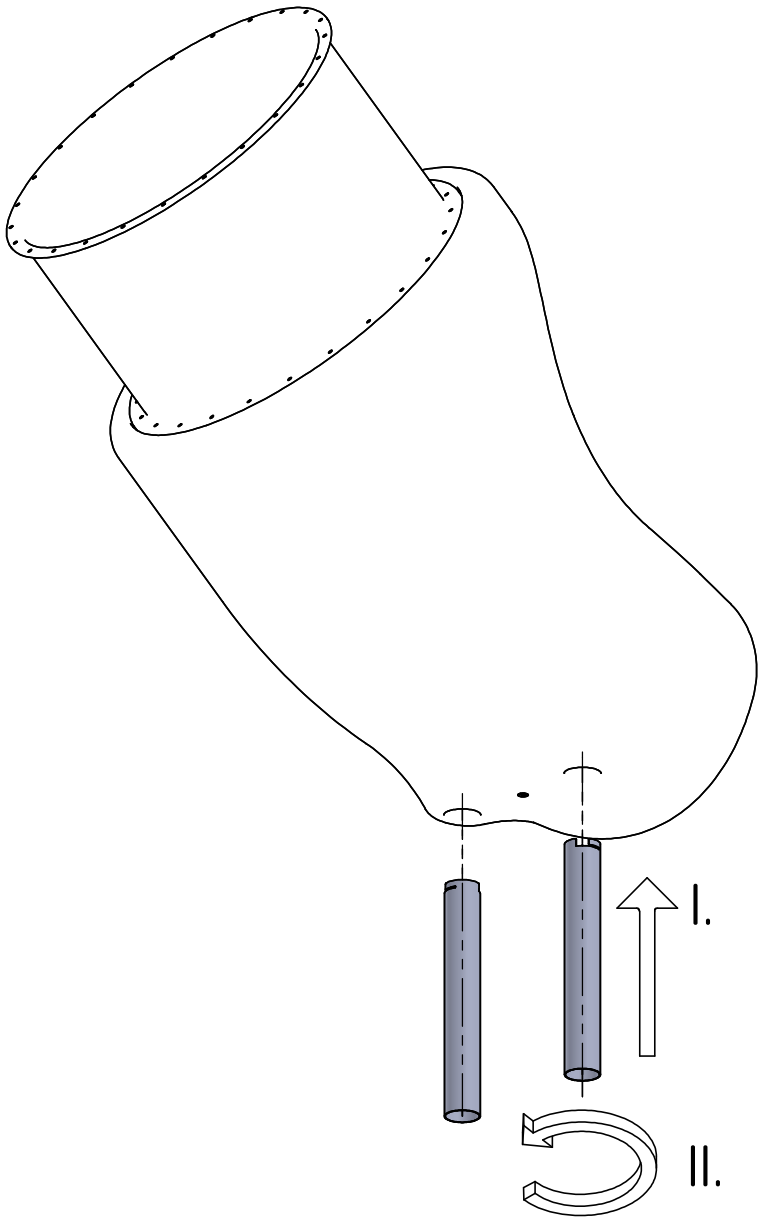
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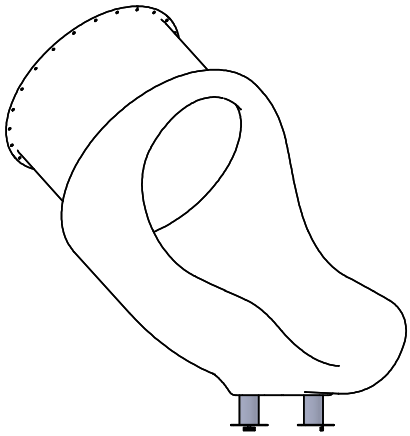
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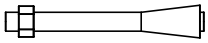


1



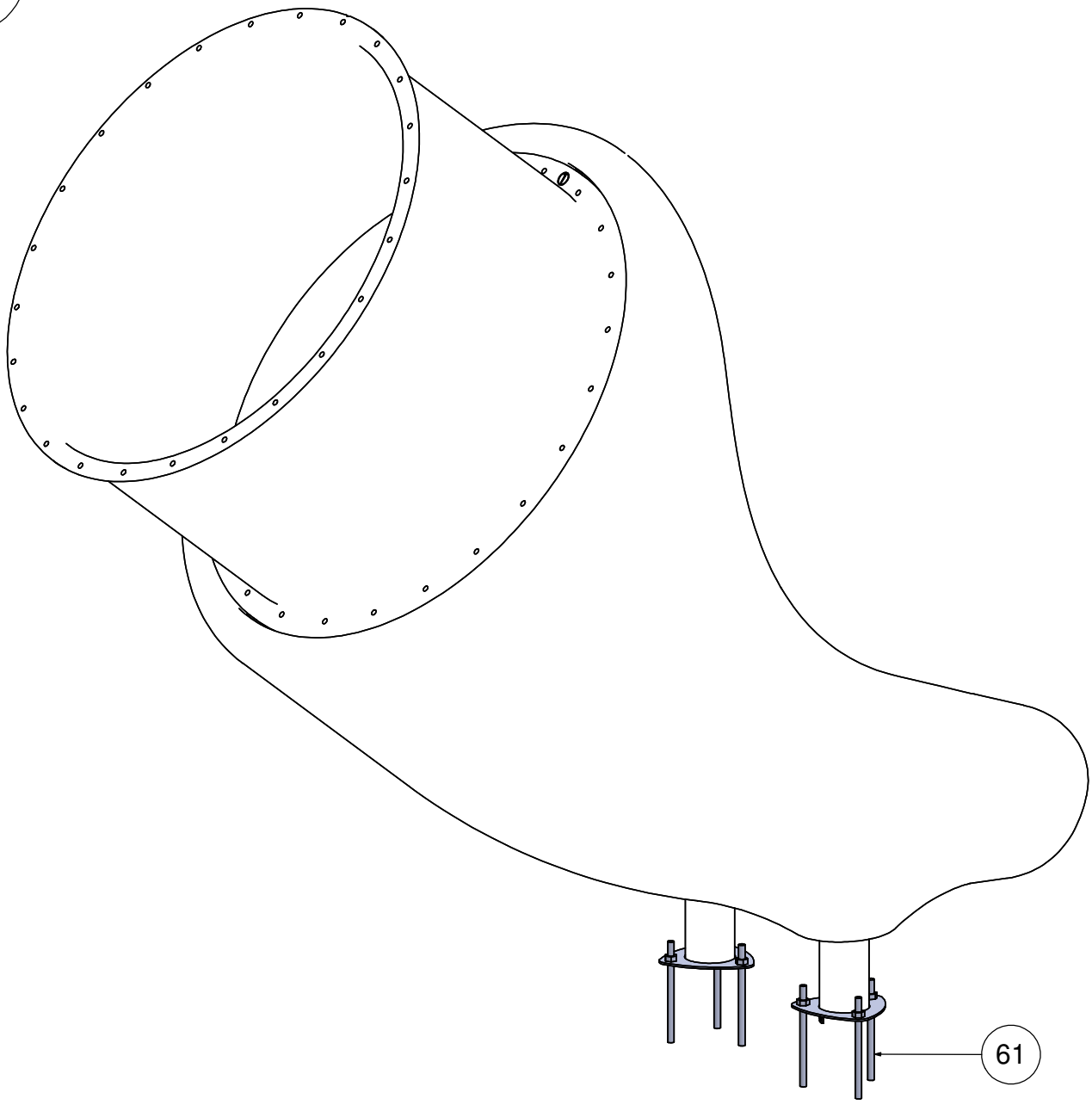
F



Nr	Σ	Element	DIN	ELEMENT
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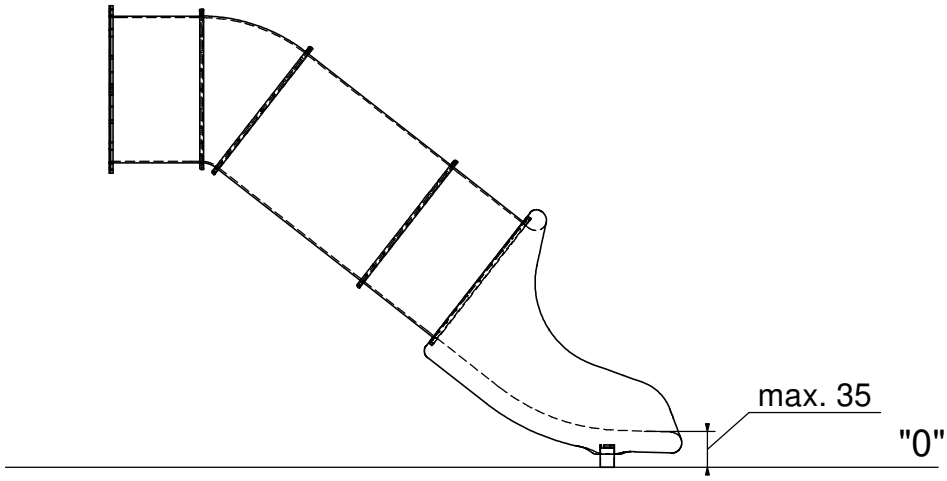
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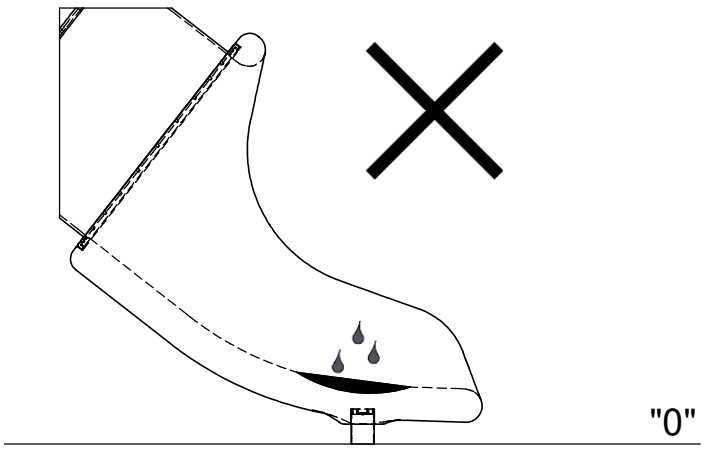


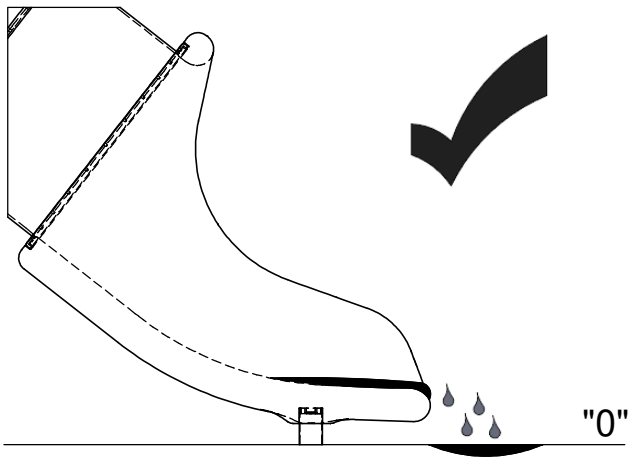
INST_MTS_1

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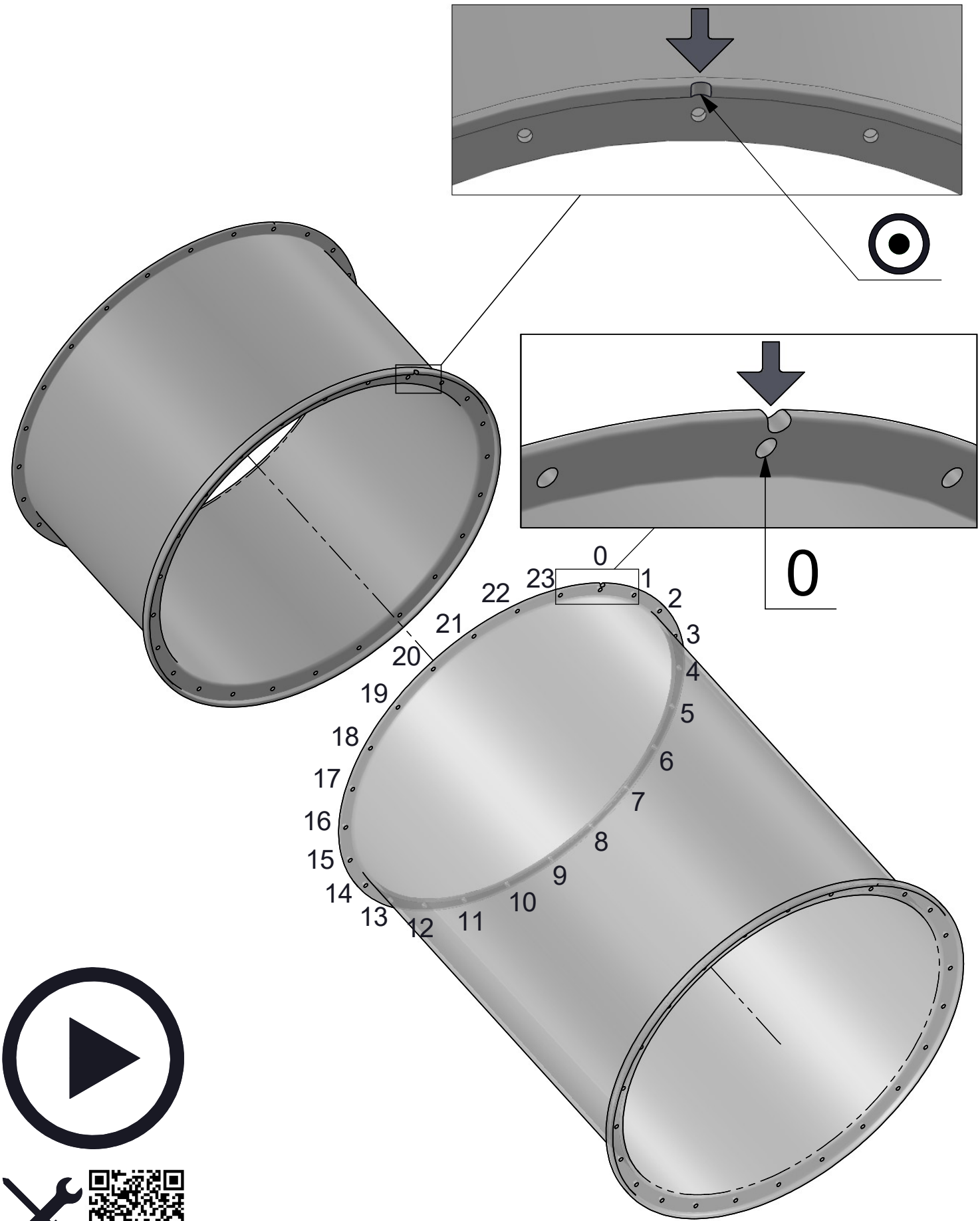
3







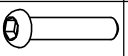
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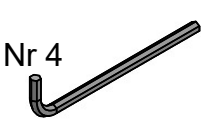


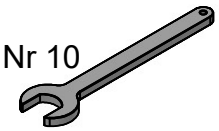
buglo.pl/mts-manual

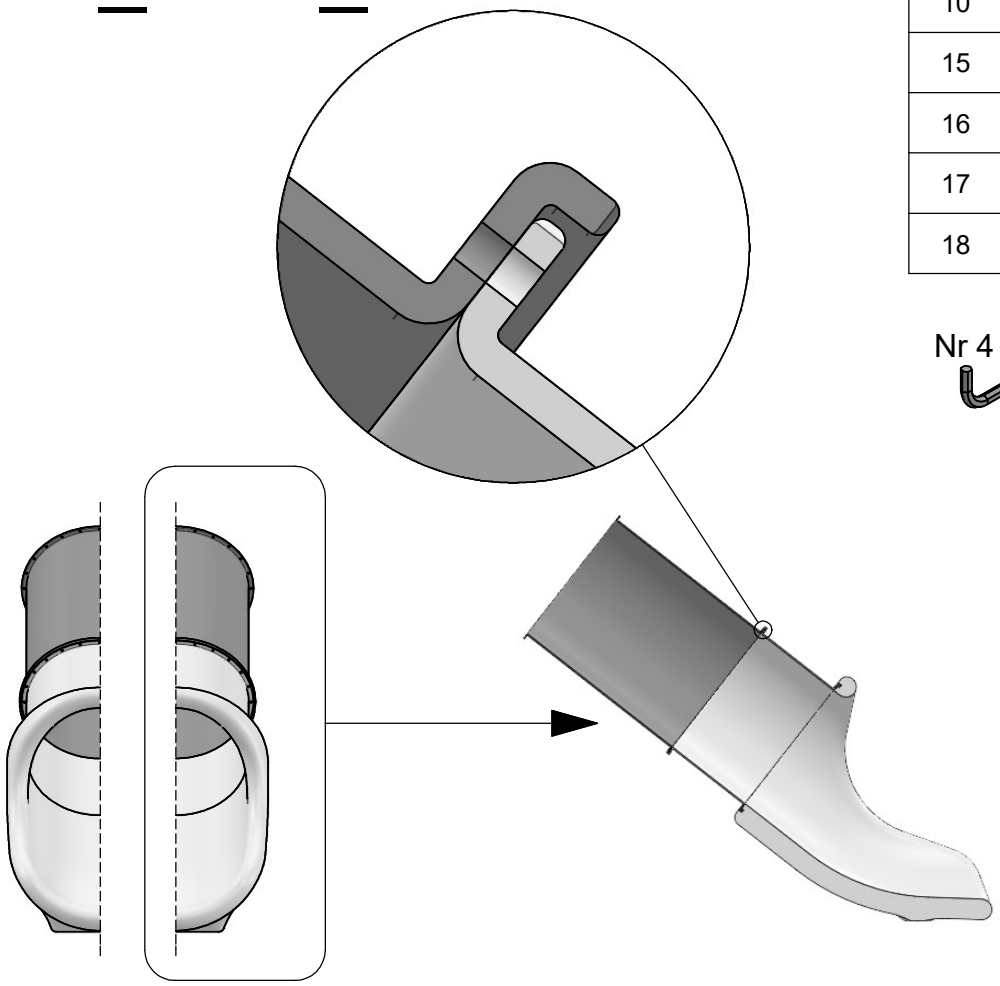
MANUAL

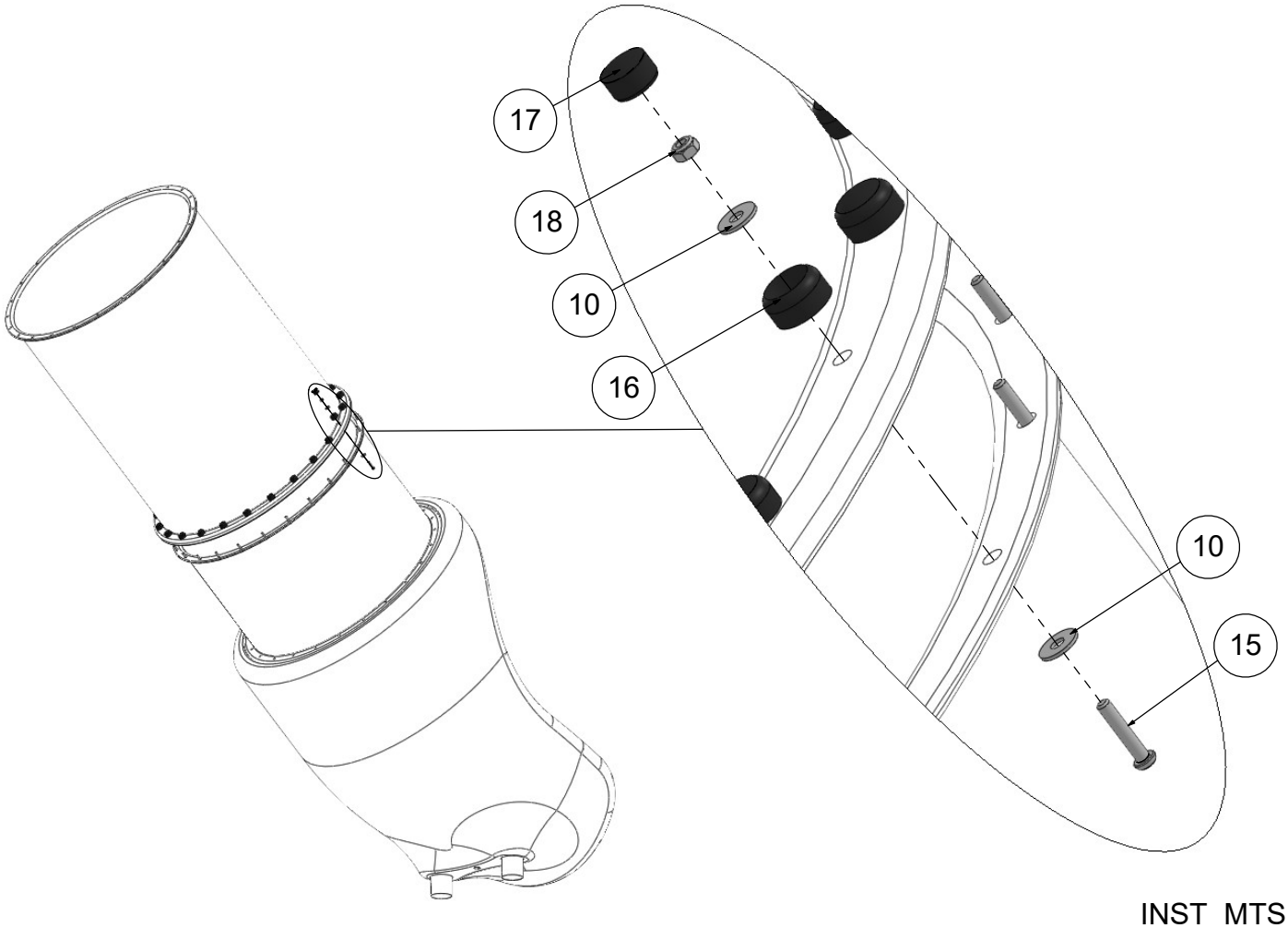
INST_MTS_3

Nr	Element	DIN	ELEMENT
10		DIN 9021	6x18
15		ISO 7380	M6x30
16		-	K1_d21_B
17		-	Z1_d21_B
18		DIN 985	M6



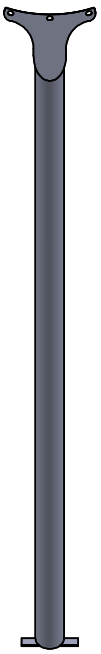




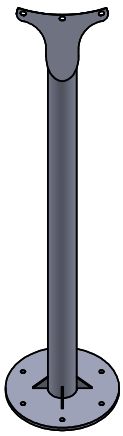


INST_MTS_4

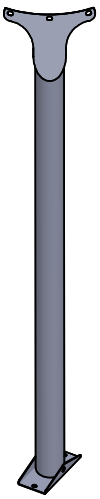
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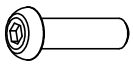
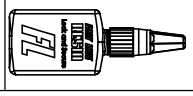


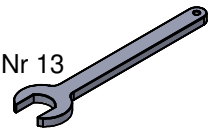
F*



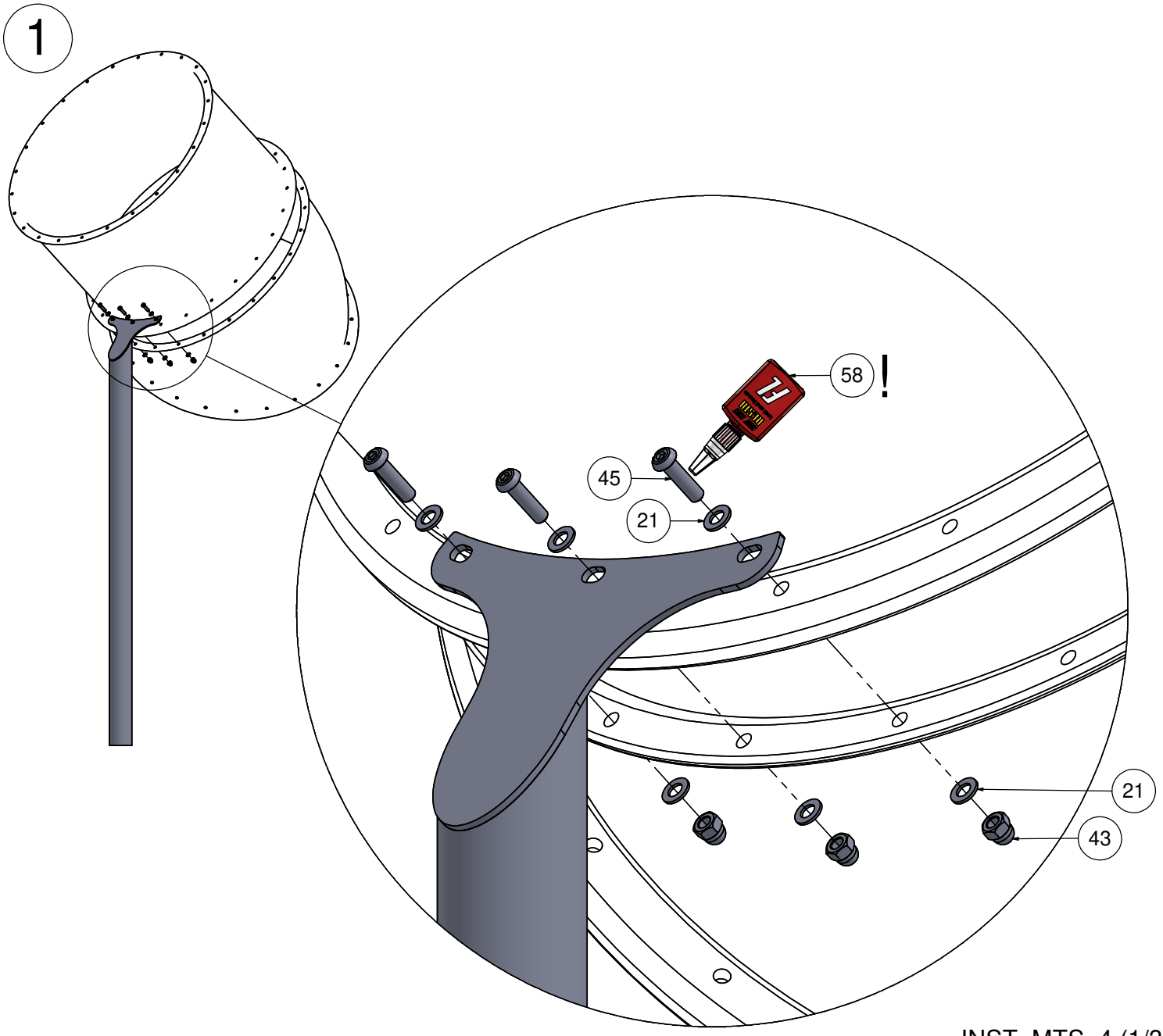
F**



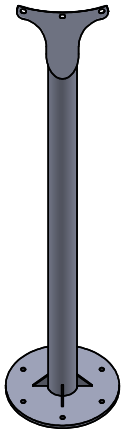
Nr	Σ	Element		
21	6		DIN 125	8x16
43	3		DIN 1587	M8
45	3		ISO 7380	M8x30
58	1		-	LOCTITE

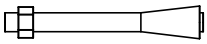


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F*

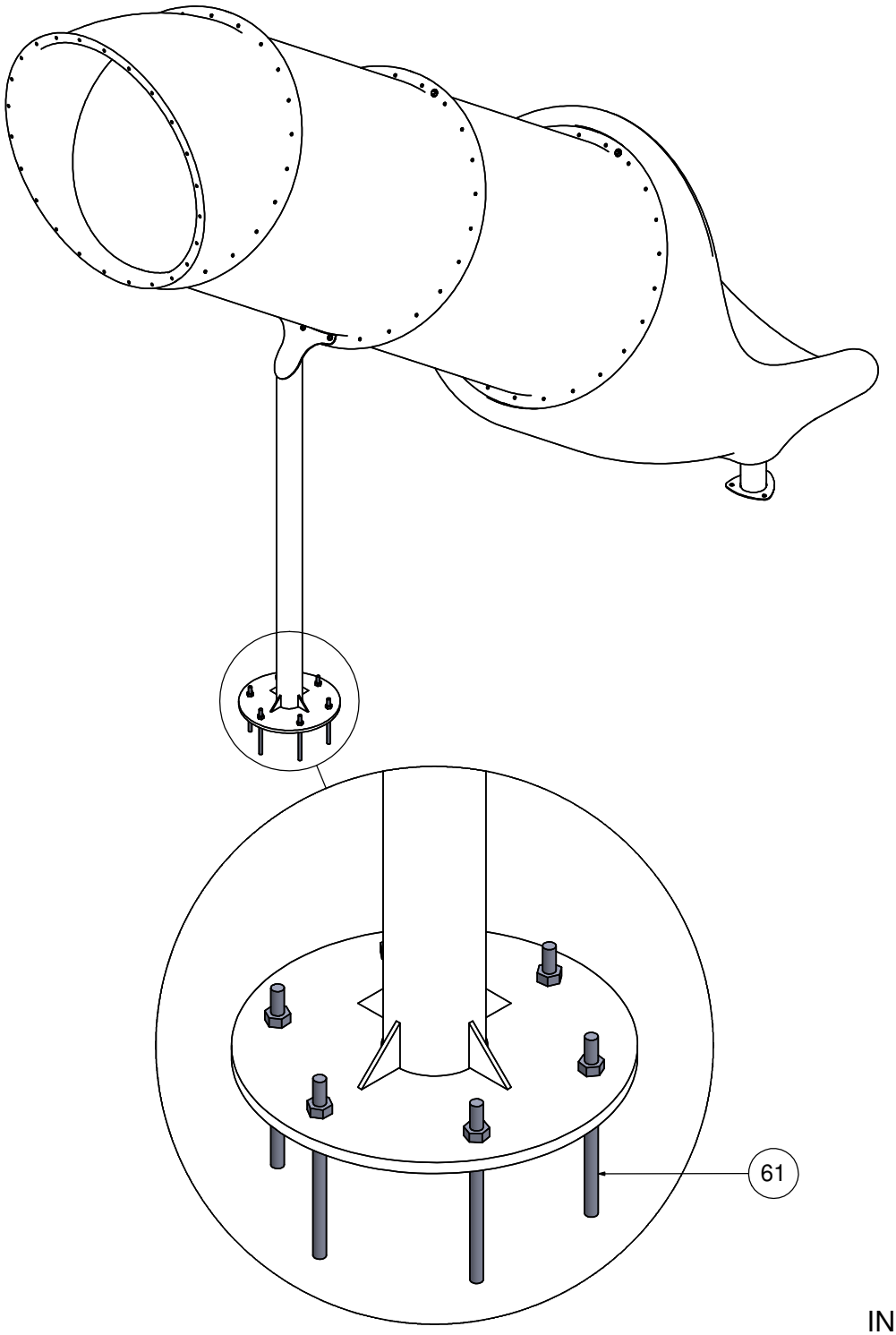


Nr	Σ	Element	DIN	ELEMENT
61	6		-	KL105

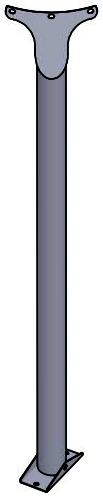
Nr 17

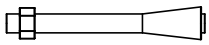
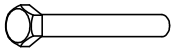
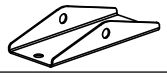


2F*

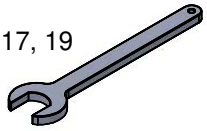


F**

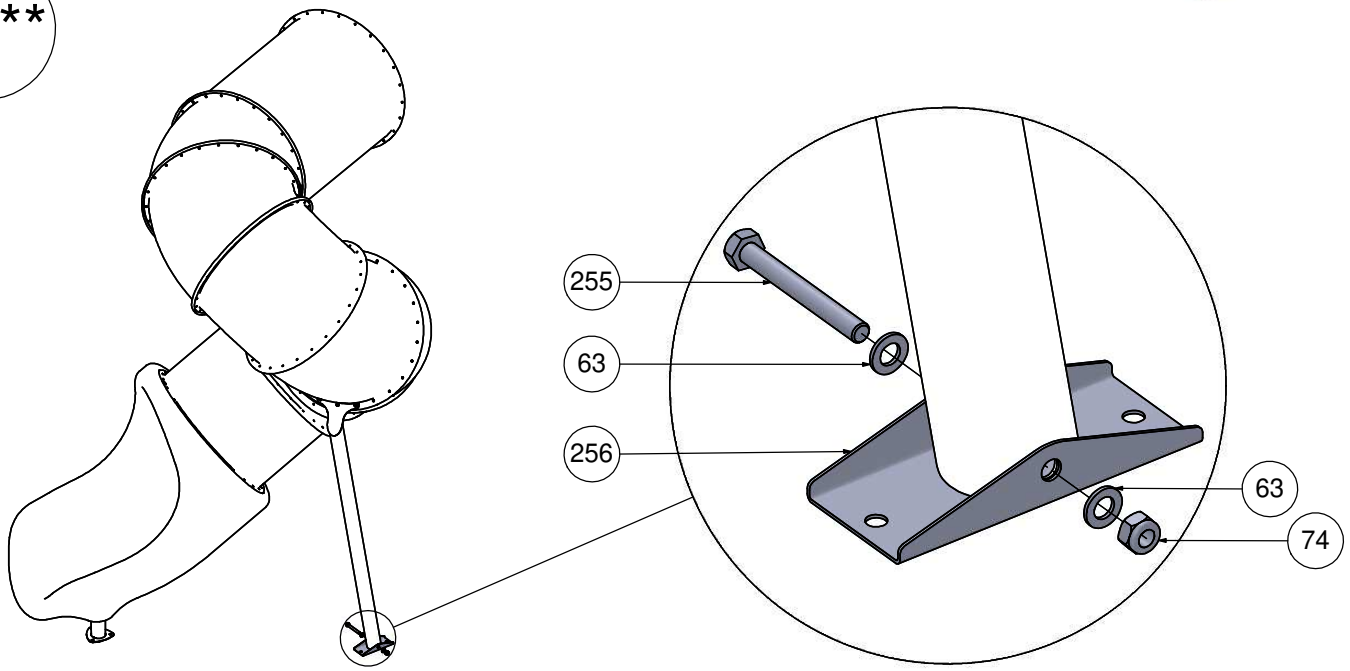


Nr	Σ	Element		
61	2		-	KL105
63	2		DIN 125	12x24
74	1		DIN 985	M12
255	1		DIN 931	M12x100
256	1		-	MTS_5_g2_G_v1

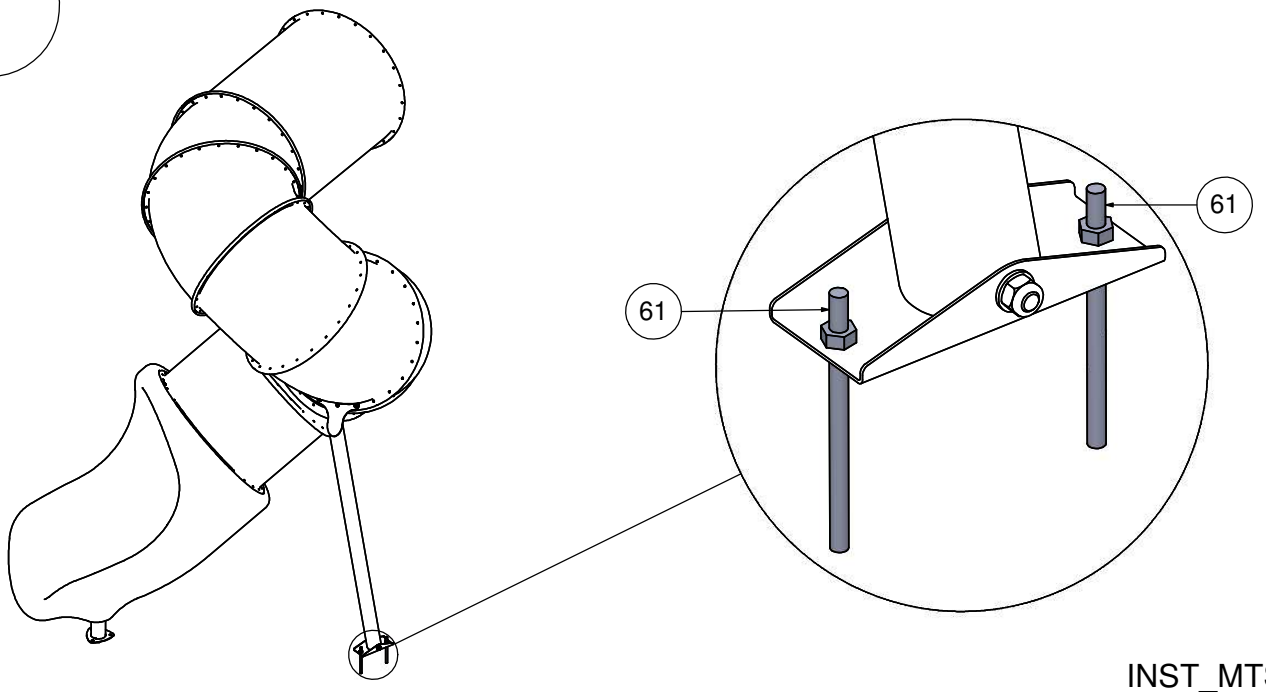
Nr 17, 19



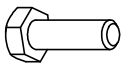
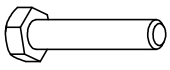
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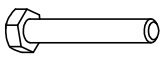
3F**

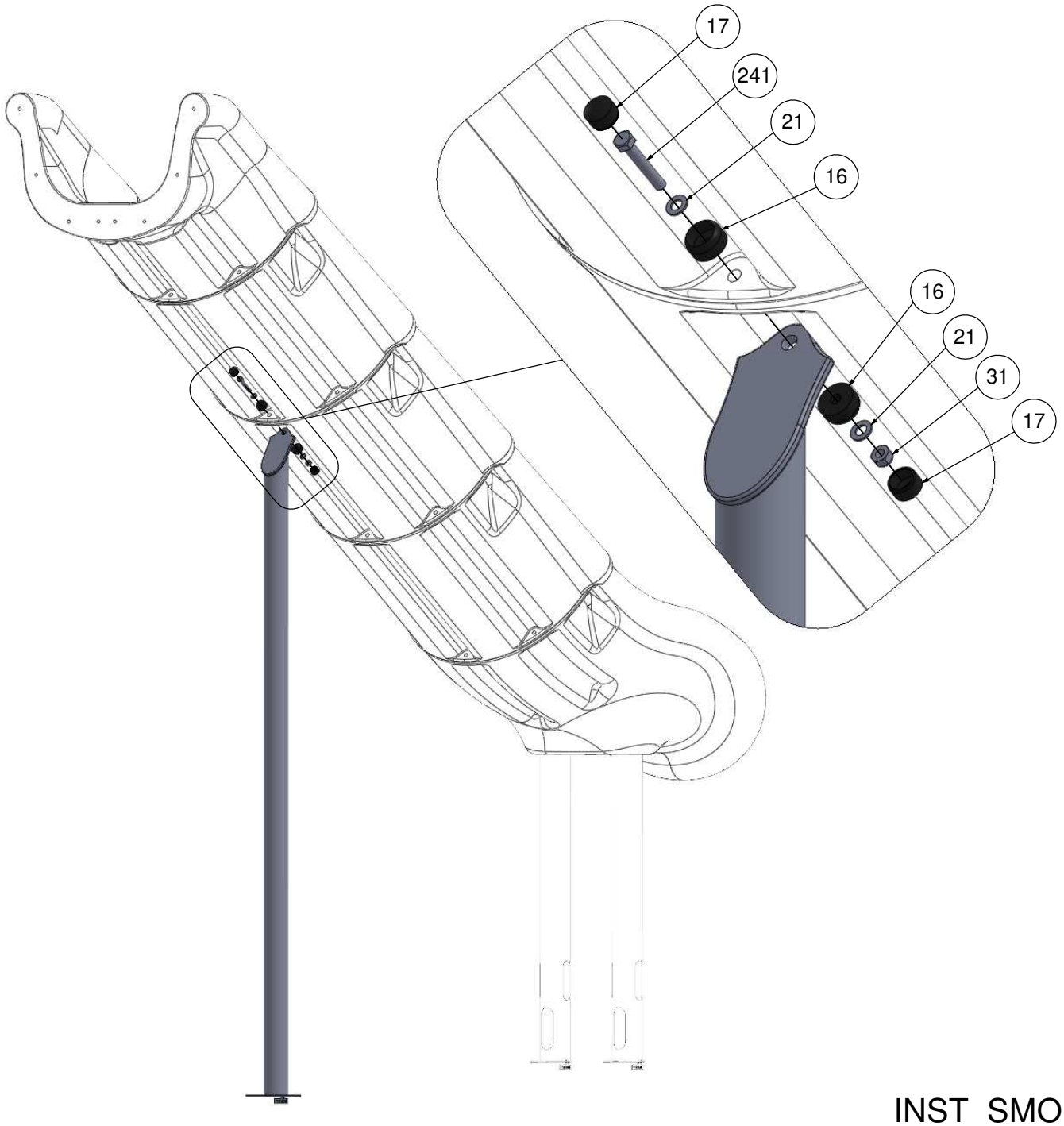


INST_SM0_1

Nr	Element	DIN	ELEMENT
16		-	K1_d21_B
17		-	Z1_d21_B
21		DIN 125	8x16
31		DIN 985	M8 (OC)
240		DIN 933	M8x25 (OC)
210		DIN 933	M8x40 (OC)
58		-	LOCTITE

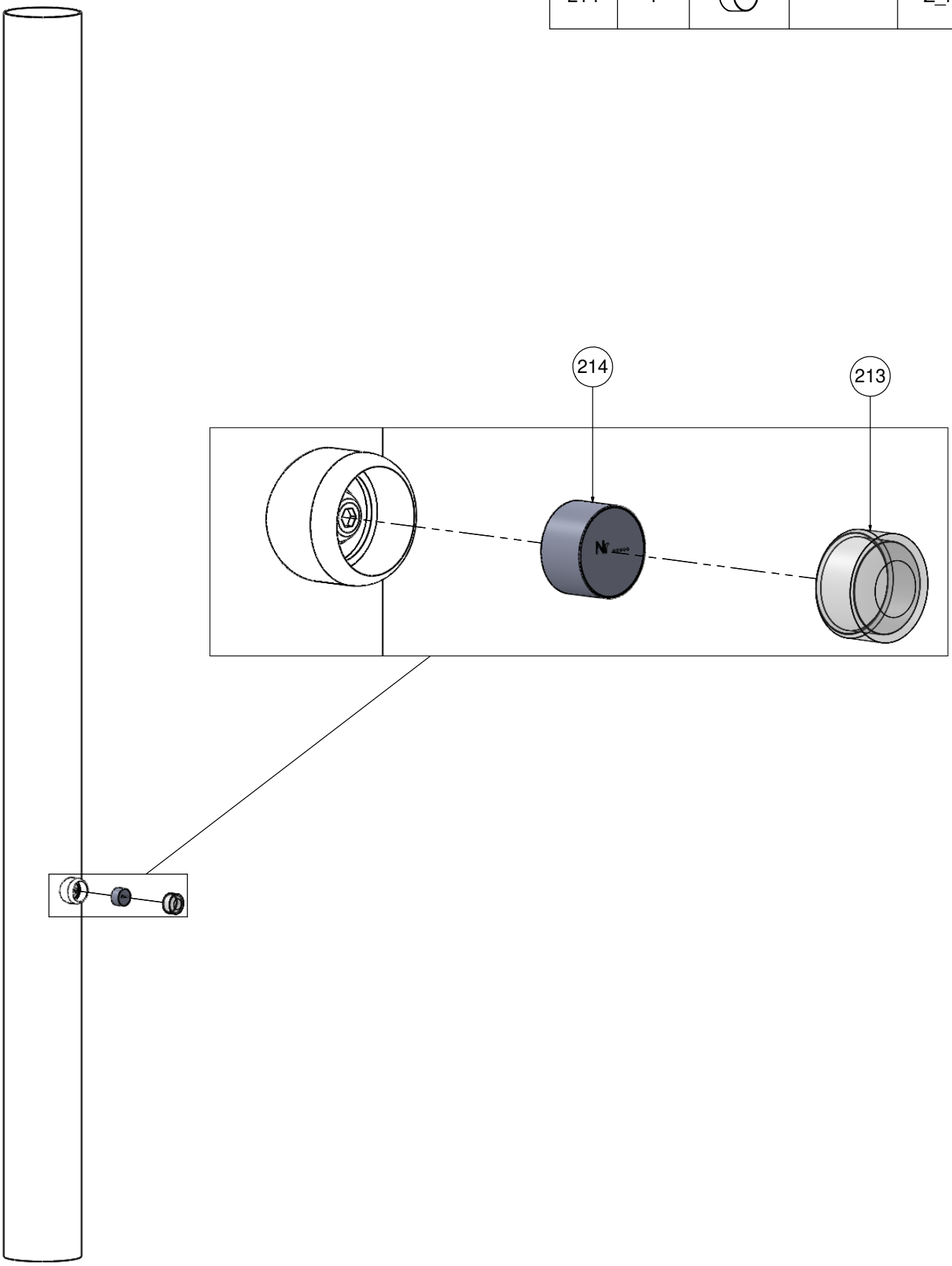
INST_SMO_2

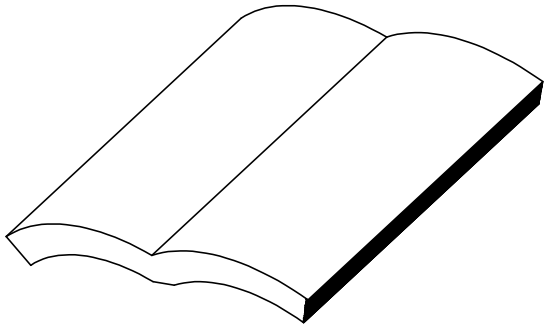
Nr	Element	DIN	ELEMENT
16		-	K1_d21_B
17		-	Z1_d21_B
21		DIN 125	8x16
31		DIN 985	M8 (OC)
241		DIN 933	M8x50 (OC)



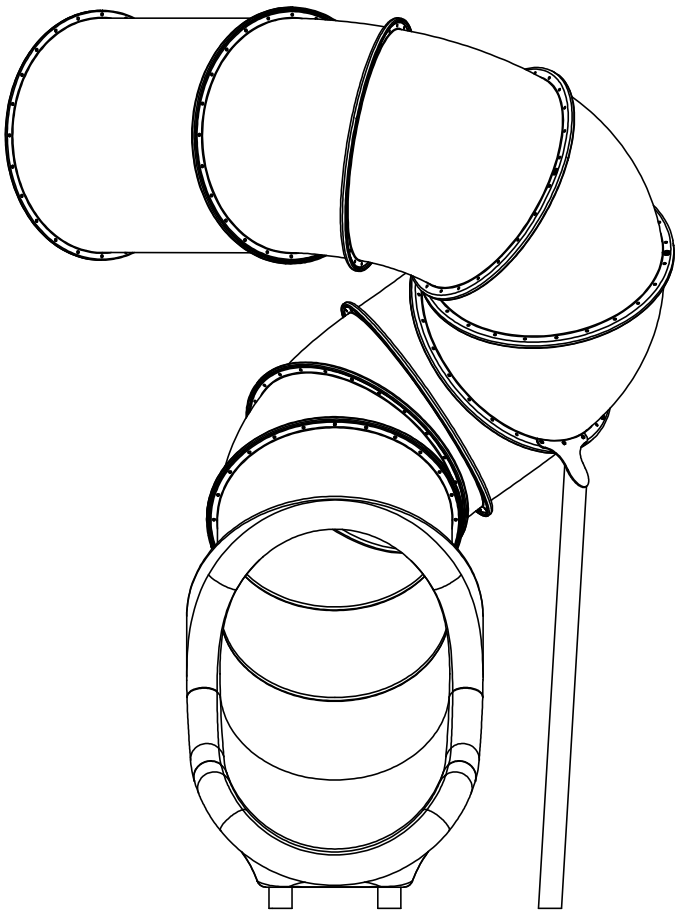
INST_Z_1

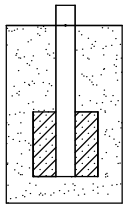
Nr	Σ	Element		
213	1		-	Z_NA_1
214	1		-	Z_NA_2





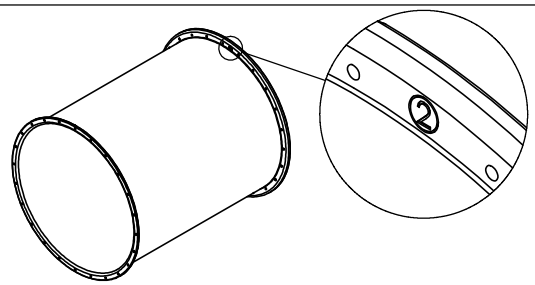
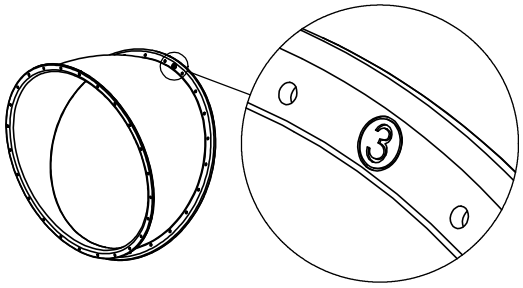
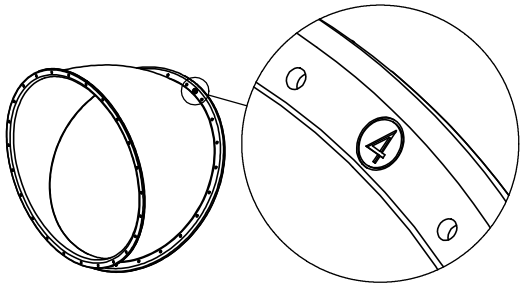
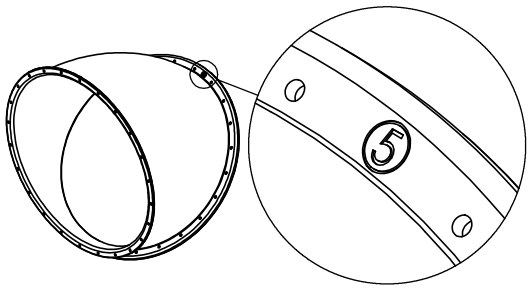
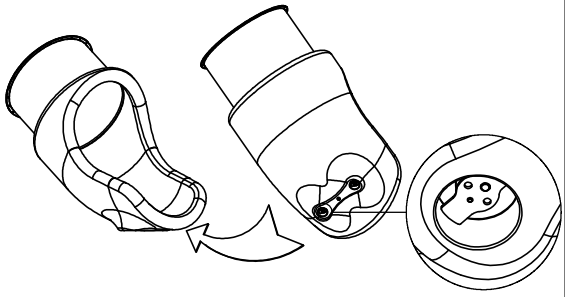
MTSS_H210_2455553316(LZ)



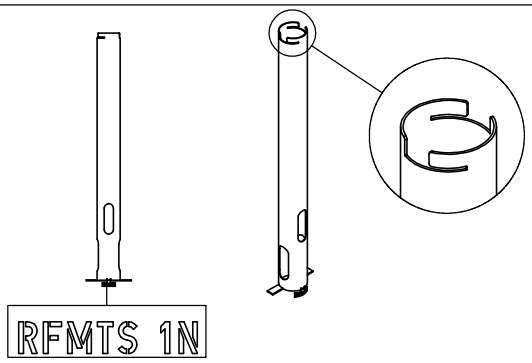
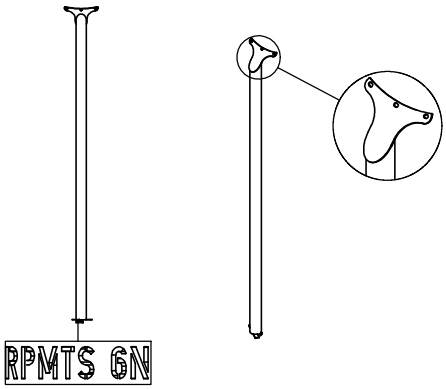
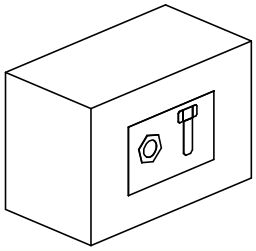


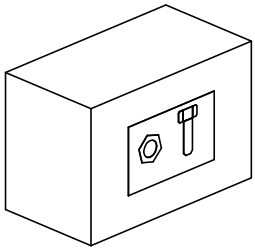
MTSS_H210_2455553316N

MTSS_H210_2455553316N(LZ)

NR	ELEMENT	
1		
2		1
3		2
4		1
5		4
6		1

MTSS_H210_2455553316N (LZ)

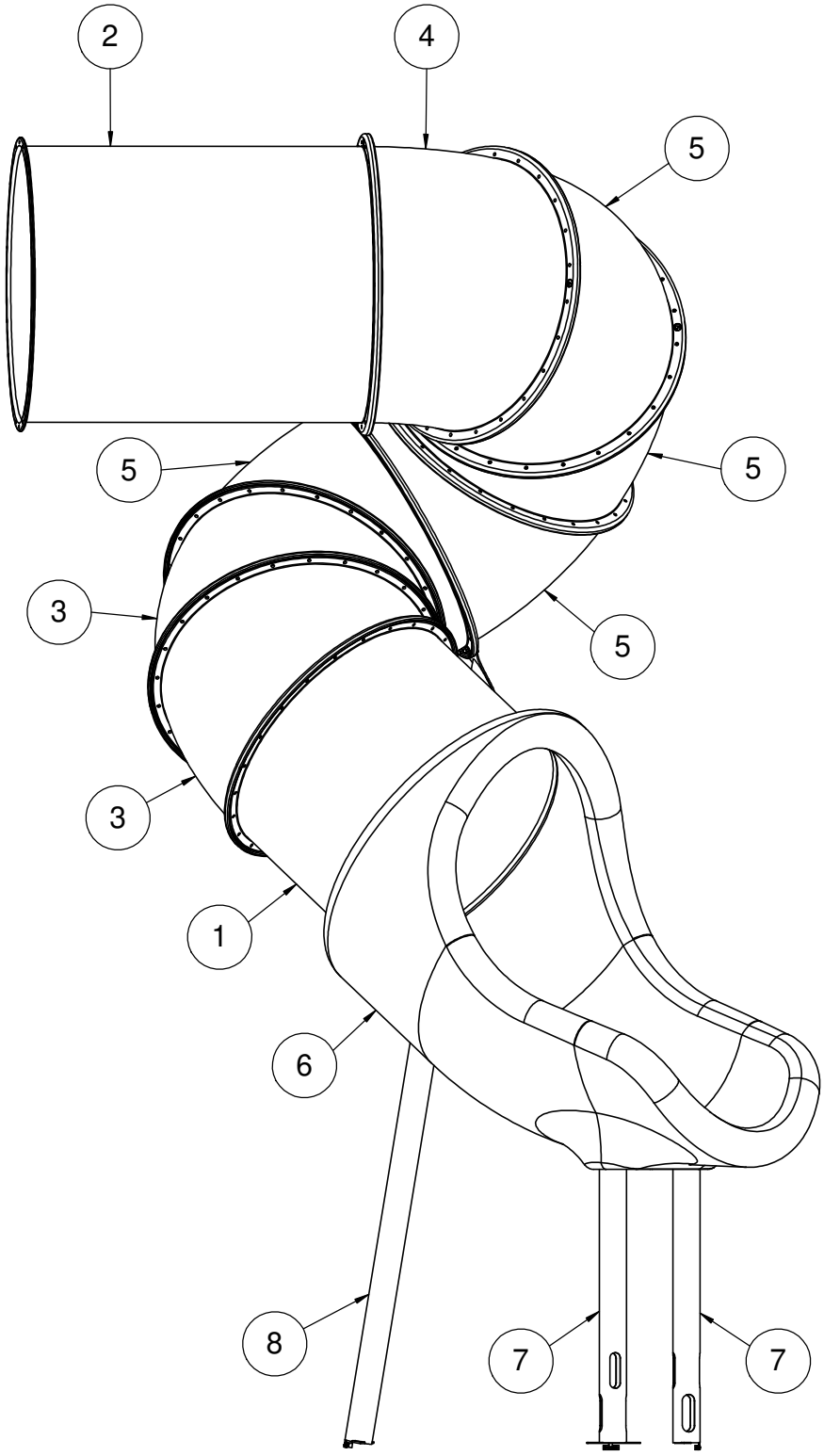
NR	ELEMENT	
7		2
8		1
9		1



MTSS_H210_2455553316N

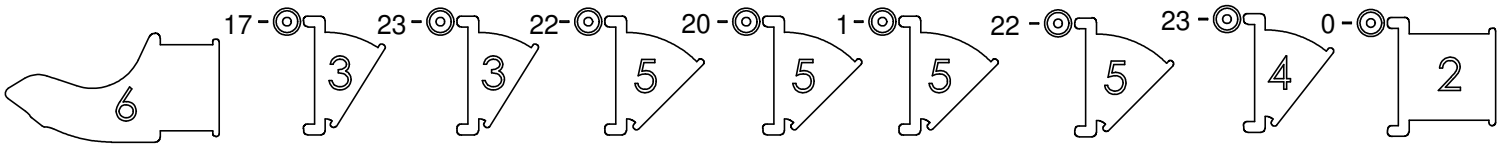
Nr	Element			Σ
10		DIN 9021	6x18	384
15		ISO 7380	M6x30	192
16		-	K1_d21_B	192
17		-	Z1_d21_B	192
18		DIN 985	M6	192
21		DIN 125	8x16	6
43		DIN 1587	M8	3
45		ISO 7380	M8x30	3
58		-	LOCTITE	1

MTSS_H210_2455553316 (LZ)

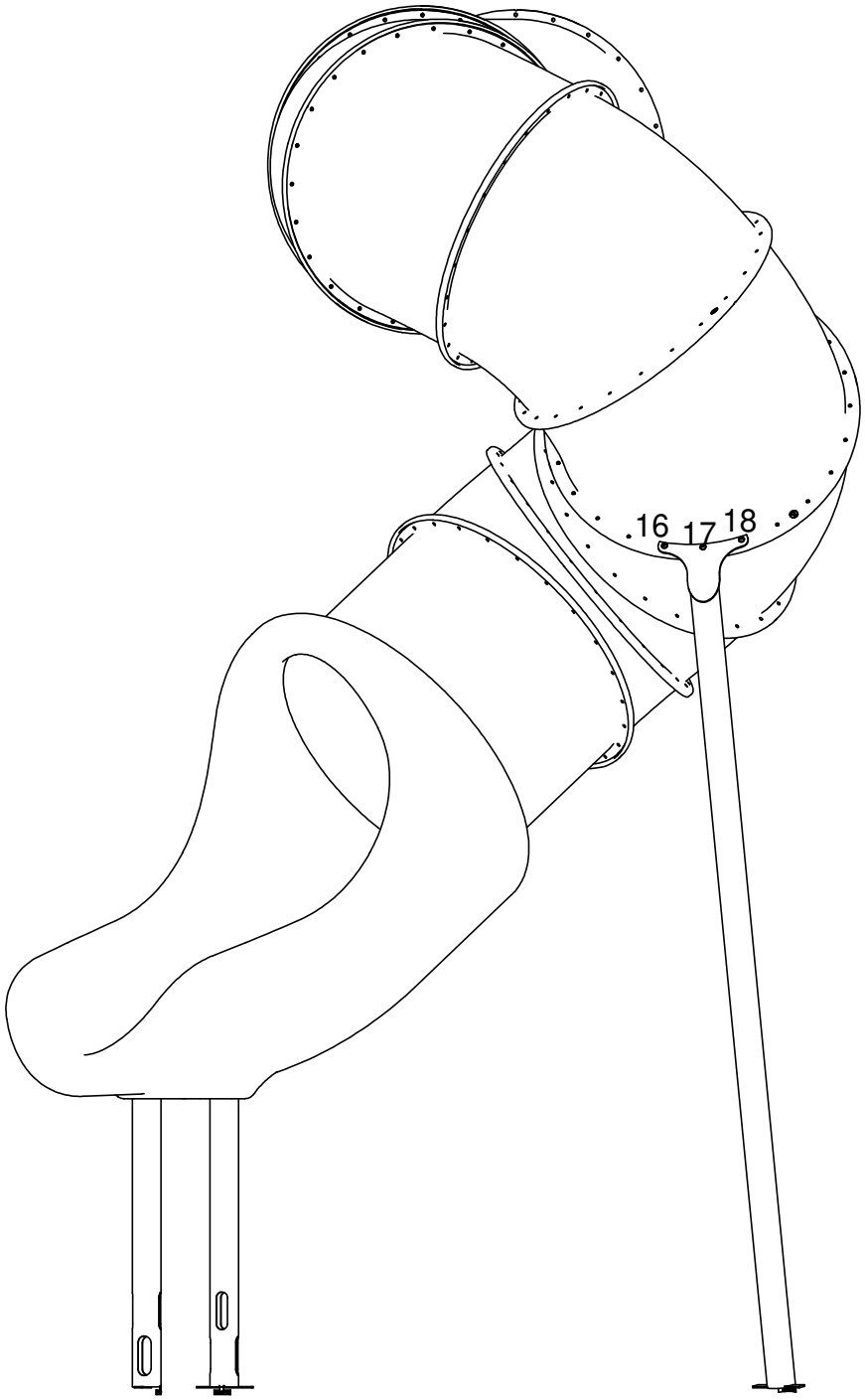


1 MTSS_H210_2455553316 (LZ)

INST_MTS_1
INST_MTS_2
INST_MTS_3
INST_MTS_4







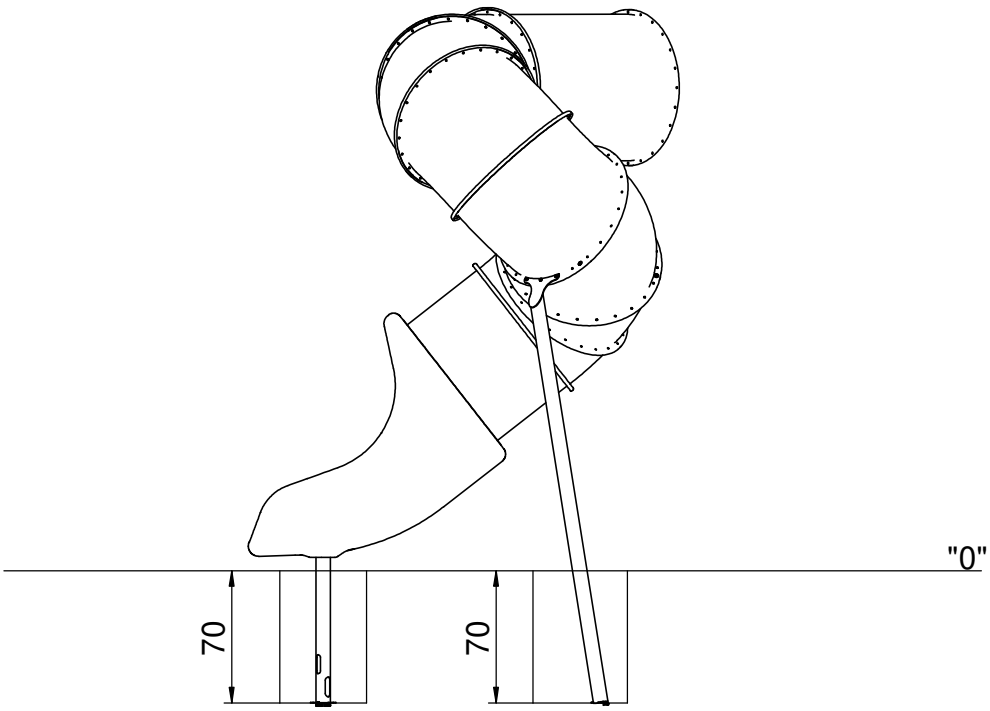
buglo.pl/mts-manual

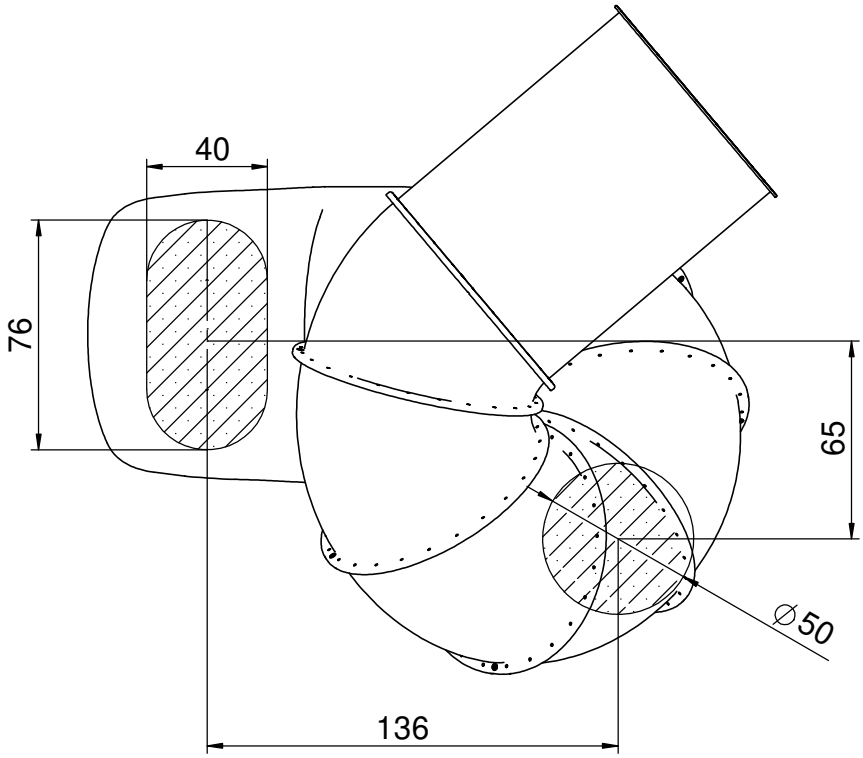
MANUAL

2

MTSS_H210_2455553316 (LZ)



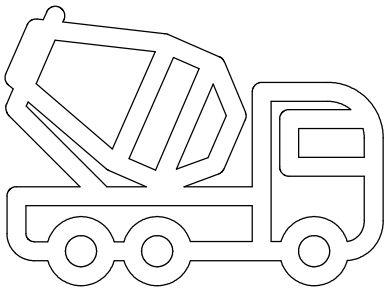




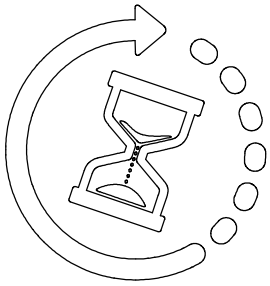
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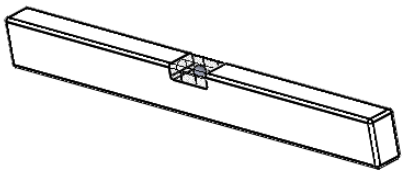
MTSS_H210_2455553316 (LZ)

B15 0,15m^3

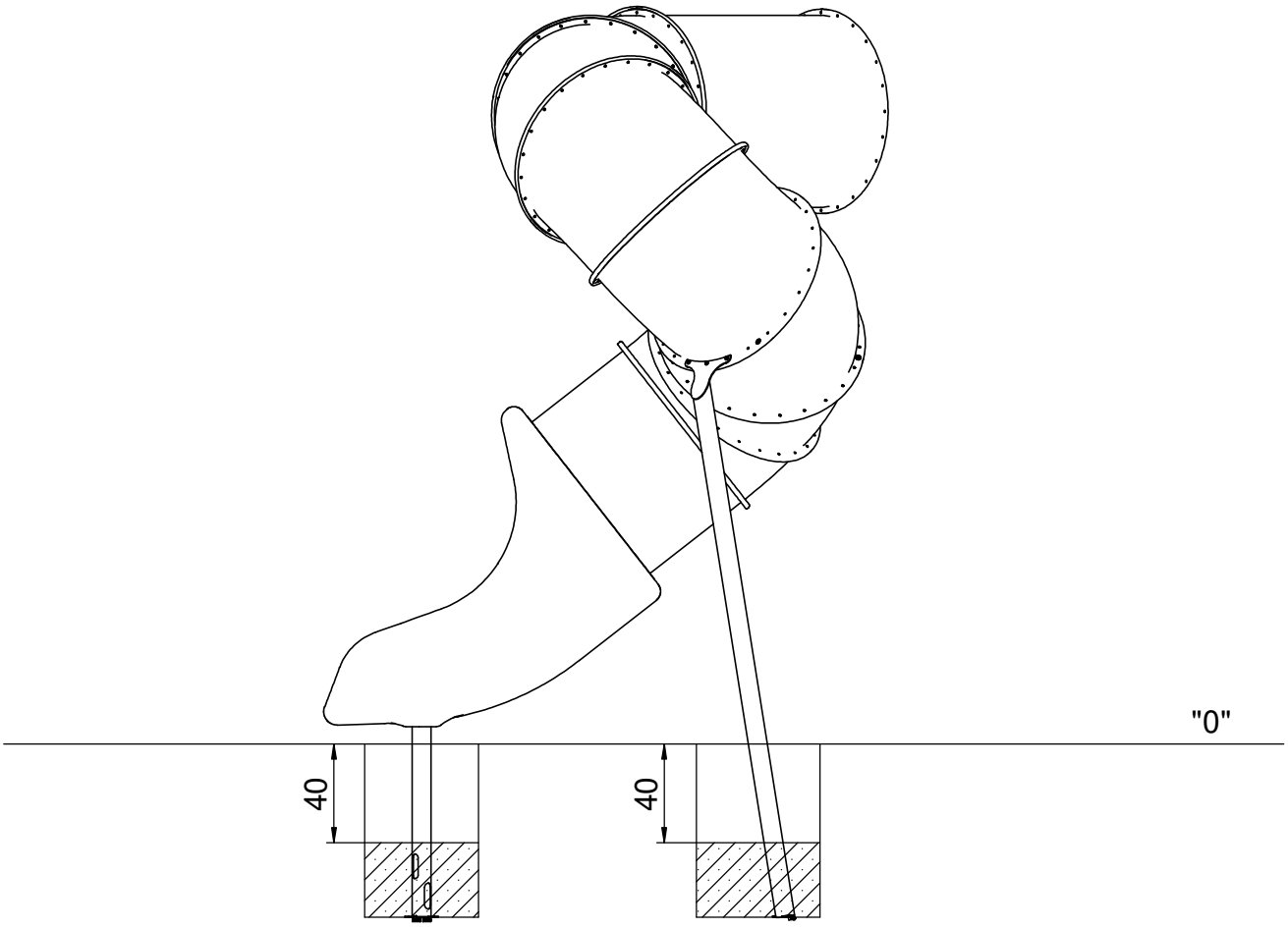


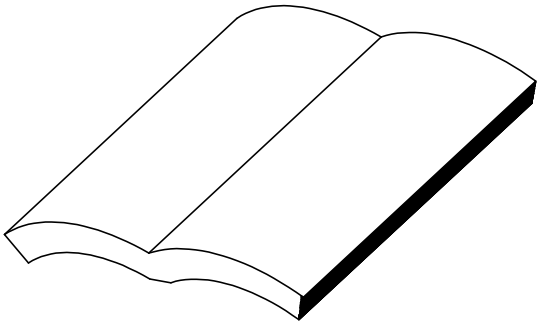
min. 48H



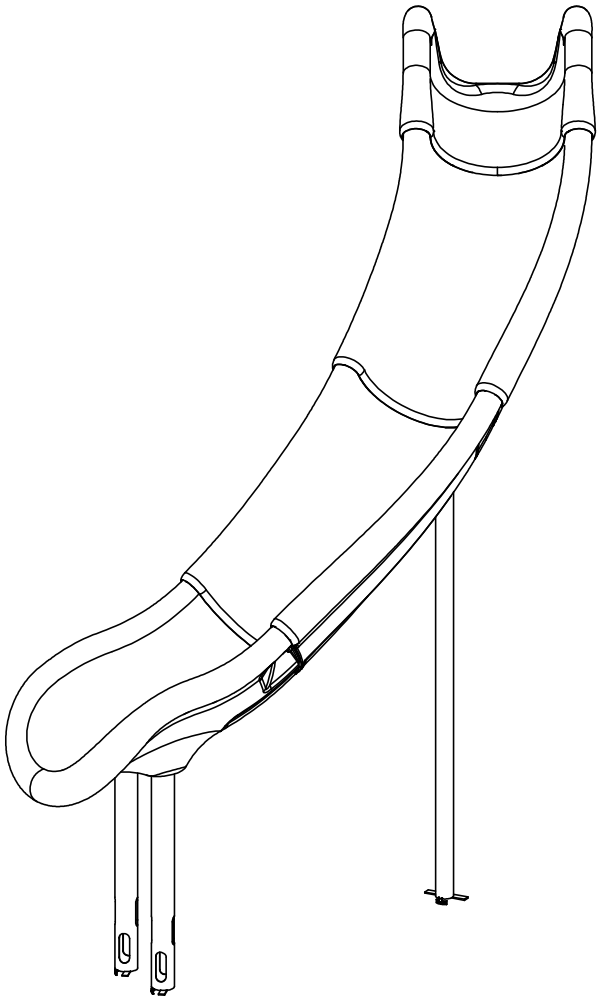


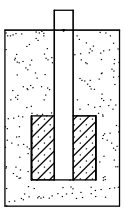
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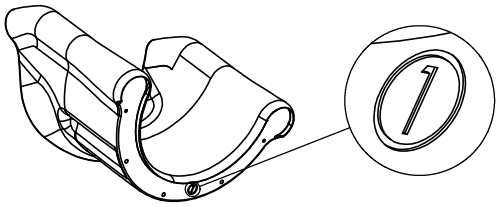
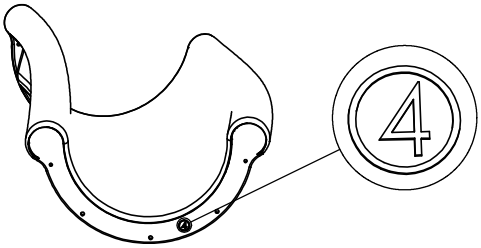
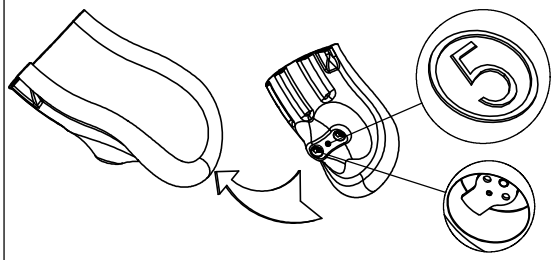
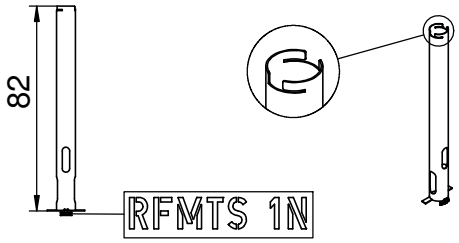
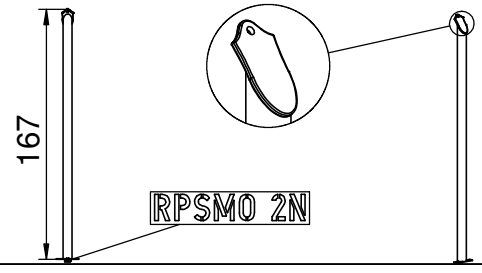


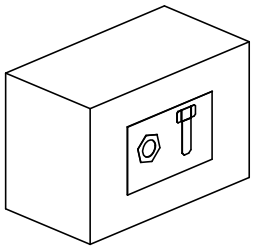
SMOL_180_1445



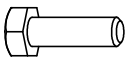
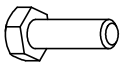
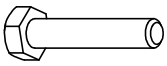


SMOL_180_1445N

NR	ELEMENT	SMOL_180_1445N
1		1
2		
3		
4		2
5		1
6		2
7		1

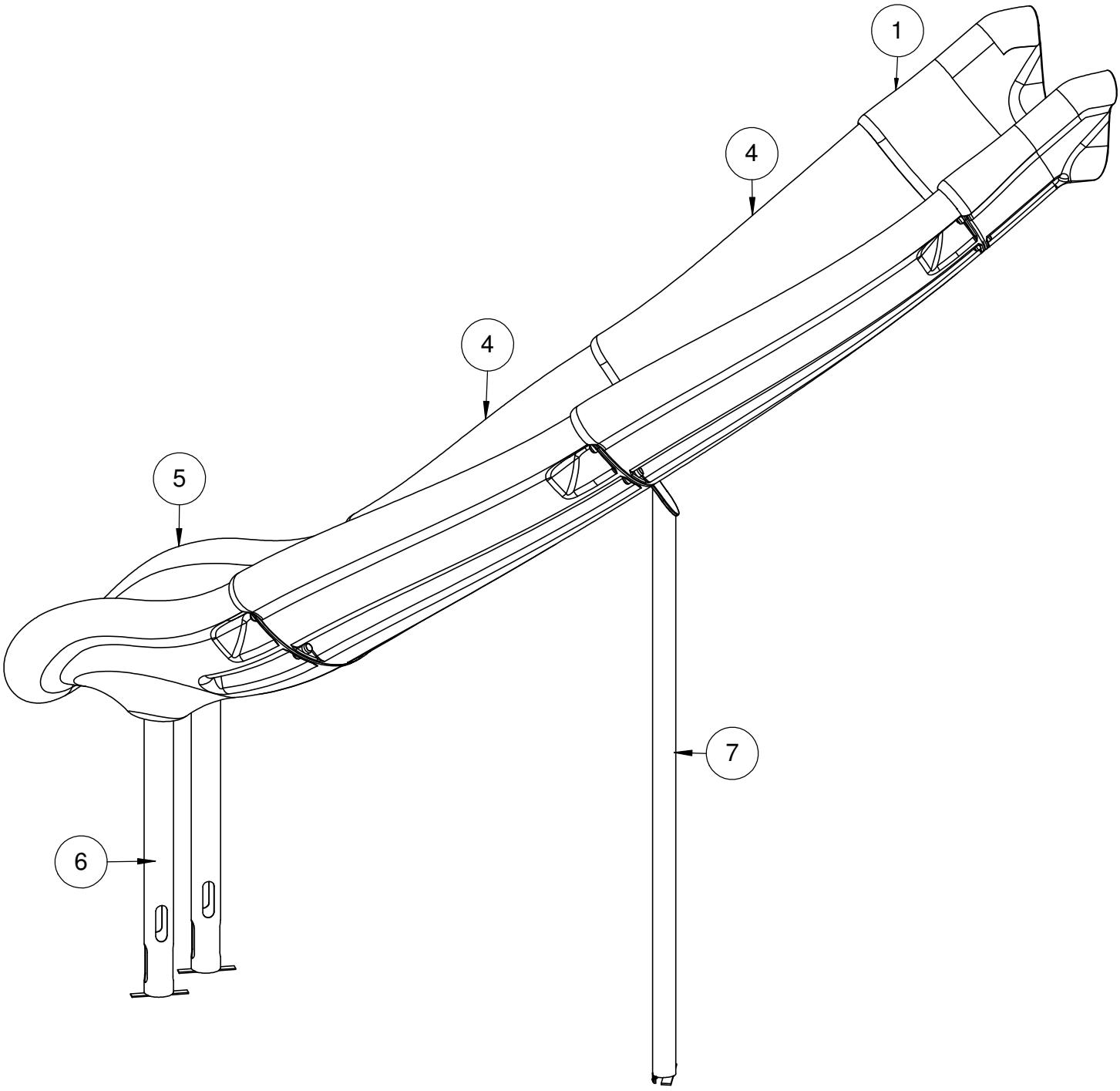


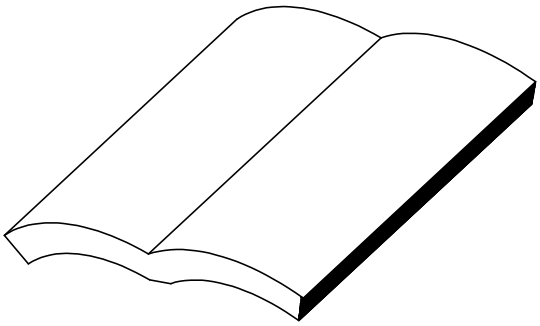
SMOL_180_1445N

Nr	Element			Σ
16		-	K1_d21_B	26
17		-	Z1_d21_B	26
21		DIN 125	8x16	26
31		DIN 985	M8 (OC)	10
58		-	LOCTITE	1
210		DIN 933	M8x40 (OC)	9
240		DIN 933	M8x25 (OC)	6
241		DIN 933	M8x50 (OC)	1

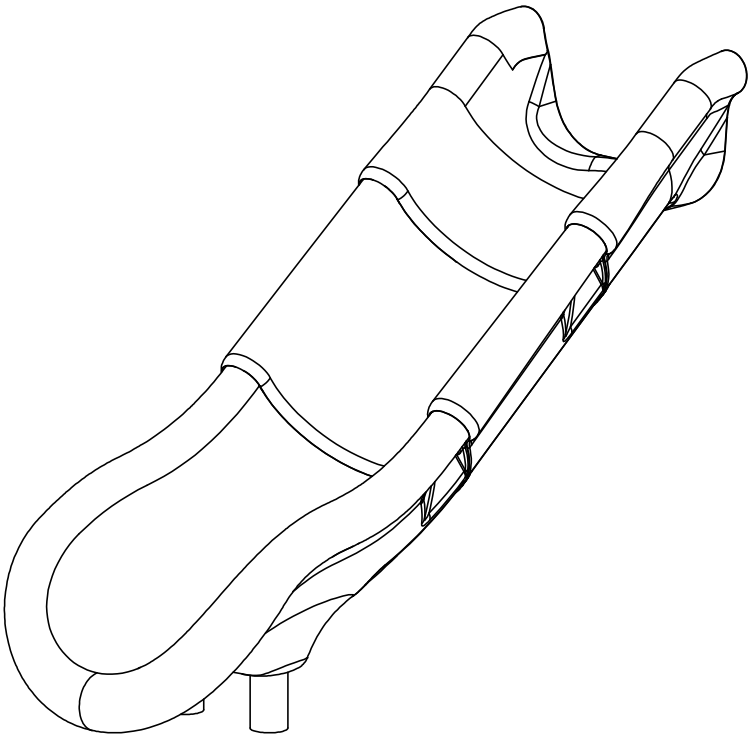
1 SMOL_180_1445N

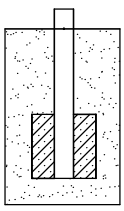
INST_SMO_1
INST_SMO_2



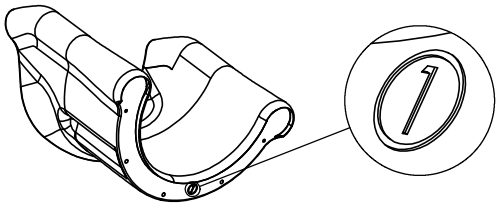
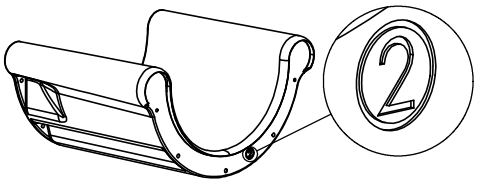
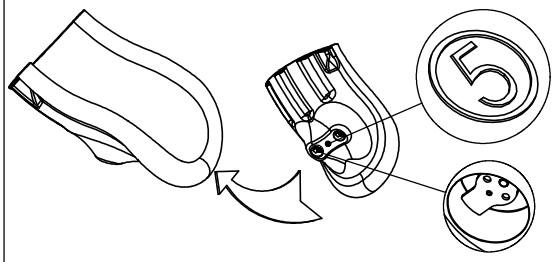
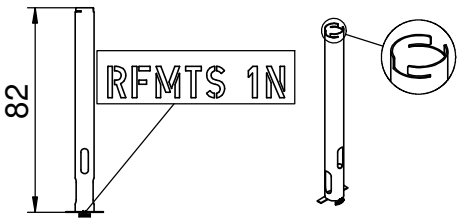


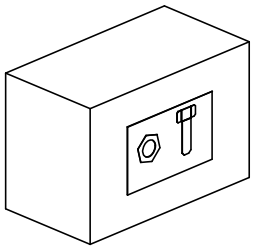
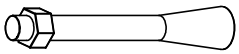
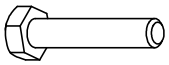
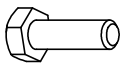
SMOP_90





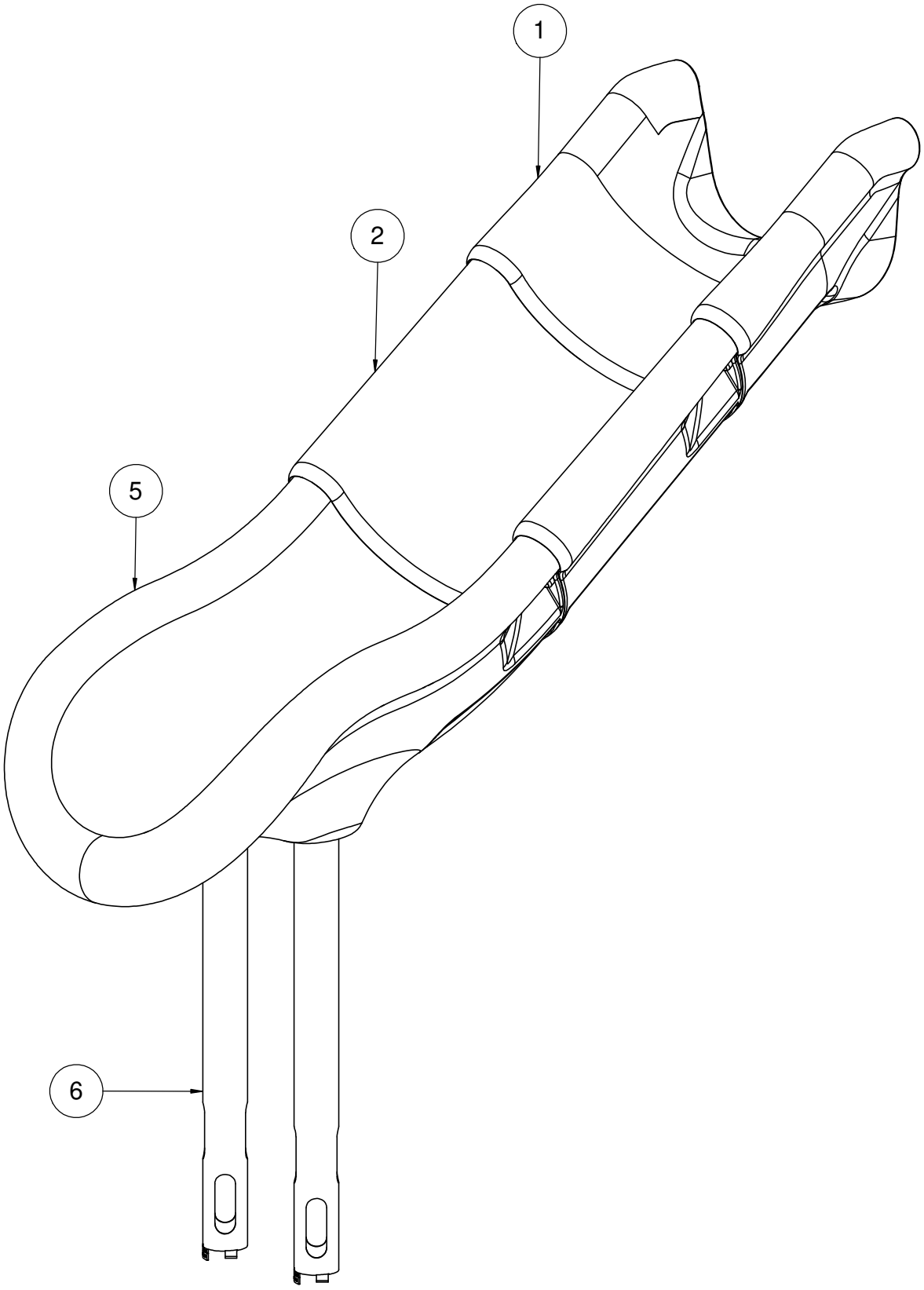
SMOP_90N

NR	ELEMENT	SMOP_90N
1		1
2		1
3		
4		
5		1
6		2
7		

				SMOP_90N	SMOP_90F
Nr	**Element**	**DIN**	**ELEMENT**	**Σ**	**Σ**
16		-	K1_d21_B	16	16
17		-	Z1_d21_B	16	16
21		DIN 125	8x16	16	16
31		DIN 985	M8 (OC)	6	6
58		-	LOCTITE	1	1
61		-	KL105 (OC)		6
210		DIN 933	M8x40 (OC)	6	6
240		DIN 933	M8x25 (OC)	4	4

1 SMOP_90N

INST_SMO_1



Conservation and control of the Product
According to the PN EN 1176-1 : 2017-12-Norm

The conservation and exploitation:
It is required to consult with the Manufacturer about all maintaining works of the Products' parts which are under guarantee.

The anticorrosive surface:
Damaged paint coat should be first cleaned out of dust, fat and corrosion centres. After that, the cleaned surface should covered with an anticorrosive primer for steel surfaces. When the layer is dry, paint twice with spray paint.

The colour combination used by BUGLO according to the RAL palette:
Grey – RAL 7035, Yellow – RAL 1003, Blue – RAL 5015, Red – RAL 3000, Green – RAL 6018, Black – RAL 9005, Purple – RAL 4008, Anthracite – RAL 7016, Silver – RAL 9006, Beige – RAL 1019, Orange – RAL 2009, Brown - RAL 8017

Wood:
Elements made of glued laminated timber require a regular renovation. Depending on climate conditions, level of exploitation and mechanical damages, it is advised to renew the impregnation layer after a period of 2 – 5 years. Before finishing, timber elements need to be mattified, then following products need to be applied:
1) Impregnating Foundation – GORI 356
2) Surface paint – NORDICA EKO 3330 – 12TM1806
Products are available via distribution network of Teknos Company (www.teknos.com). Usage according to the producer's instructions.

IROKO wood: preserve with Owatrol D1.

Stainless steel:
It is recommended to clean stainless steel elements once a year, to remove sediments and contaminats, which accumulation can cause steel discolouring. Wash with cotton cloths and gentle detergent dissolved in water, eg. dishwashing liquid. After cleaning rinse with water and wipe dry.

Caution!
Cleaners used to clean stainless steel **must not** contain: chlorine, salt, acids or bleaches.
Even small amount of this substances can cause permanent damage of chromium oxide surface.

Recommendations for the product control according to the EN 1176-7: 2020-Norm Playground equipment and the surfaces part 7: Guidelines for the assembly, control, conservation and exploitation/running.

1) Post-installation inspecion – recommended before the playgrodun opens for public use to assess the access to the product and its surroundings taking into consideration overall security level.

2) The periodic control – if the product is used very intensively or is exposed to vandalism, the control should be carried out once a week or more frequently.

The periodic control includes:
- potential damage of any elements,
- tightening of the connectors,
- outer coat of the set,
- condition of the shock-absorbing surface,
- bearing lubrication,
- completeness of the products,
- checking if there are no cracks, sharp edges or other damages,
- the cleanness around the Product (broken glass determines a big danger) and smoothing the safety surface,
- the presence of obstacles in the safe space or fall space and their removal if present,
- general safety status of the playground.

3) The functional control – should be carried out once every three months.

It includes the range of the periodic inspection enlarged by examining the product's functions.
- during the functional control the fixed elements of the product should be checked (completeness of caps and masking elements),
- checking the stability of the posts,
- checking the loose-fill safety surface (eg. sand, gravel, bark, woodchips) and evening it out. If the level is under 10cm below the marked surface level, it must be filled in,
- tighten all screws,
- checking the tensions of the zip line rope, nets and rope pyramids,
- checking of the condition of welds,
- replacing of worn or damaged elements.

4) The functional control and the main control – mandatory once a year.

The main control covers:
- checking the construction's stability,
- checking and reconstructing the anti-corrosion coating that was damaged,
- checking the foundation's condition,
- checking the loose-fill safety surface (eg. sand, gravel, bark, woodchips) and evening it out. If the level is under 10cm below the marked surface level, it must be filled in,
- checking the condition of wooden elements, if included.

The equipment should have a regular check-up control by competent people (with certified level of competence). Every time the check-up control takes place, the playground administrator should record it on inspetion sheets. Any modificatons of the equipment or design that may affect the basic safety of the equipment should be carried out after consultation with the manufacturer or a competent person.
All personnel involved in playground safety management must be competent.
Full range of requirements according to EN 1176-7:2020.

A sample of playground inspection sheet is included in attachment A1.

Control sheet of the playground

Administrator of the playground

Controlled equipment (product number, manufacturer number)

Check-up plan

	Check-up run once a week or more often, depends on how intensively the product is used (periodically)	YES	NO
1	General condition of the safety on the playground.		
2	Tightening of the connectors, bearings lubrication, checking of the shock-absorbing surface.		
3	Is the set complete?		
4	Are there any cracks, sharp edges or other damages in the device?		
5	Is the area surrounding the device clean (no glass, safe surface horizontal/even)?		
6	Are there any obstacles in the clear space or fall space?		

	Check-up run once in a three months (functional)	YES	NO
1	Are the non-separable elements complete (covers and masking elements are complete)?		
2	Are the posts stable?		
3	Is the loose safe surface horizontal/even?		
4	Is the level of the safety surface up to the marked level or is max. 10cm below this level?		
5	Is the condition of the connectors adequate?		
6	Is the condition of the welds adequate?		
7	Are the ropes and nets tensioned correclly?		
8	Replacing of worn or damaged elements.		

	Check-up run once a year (functional an main)	YES	NO
1	Is the construction stable?		
2	Are there any damages to the anticorrosional coat?		
3	Is the powdery safe surface horizontal/even?		
4	Is the condition of the foundation adequate?		
5	Is the condition of wooden elements adequate?		
6	Is the level of the safety surface up to the marked level or is max. 10cm below this level?		

Fault/Repair

1	
2	
3	
4	
5	

Parts exchange

	Name of the part	Qty	Reason
1			
2			
3			

	Date	Inspector’s name
1		
2		
3		
4		