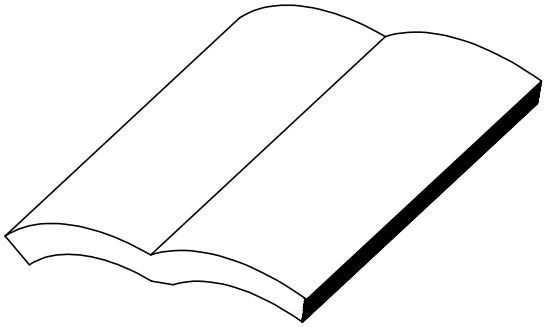
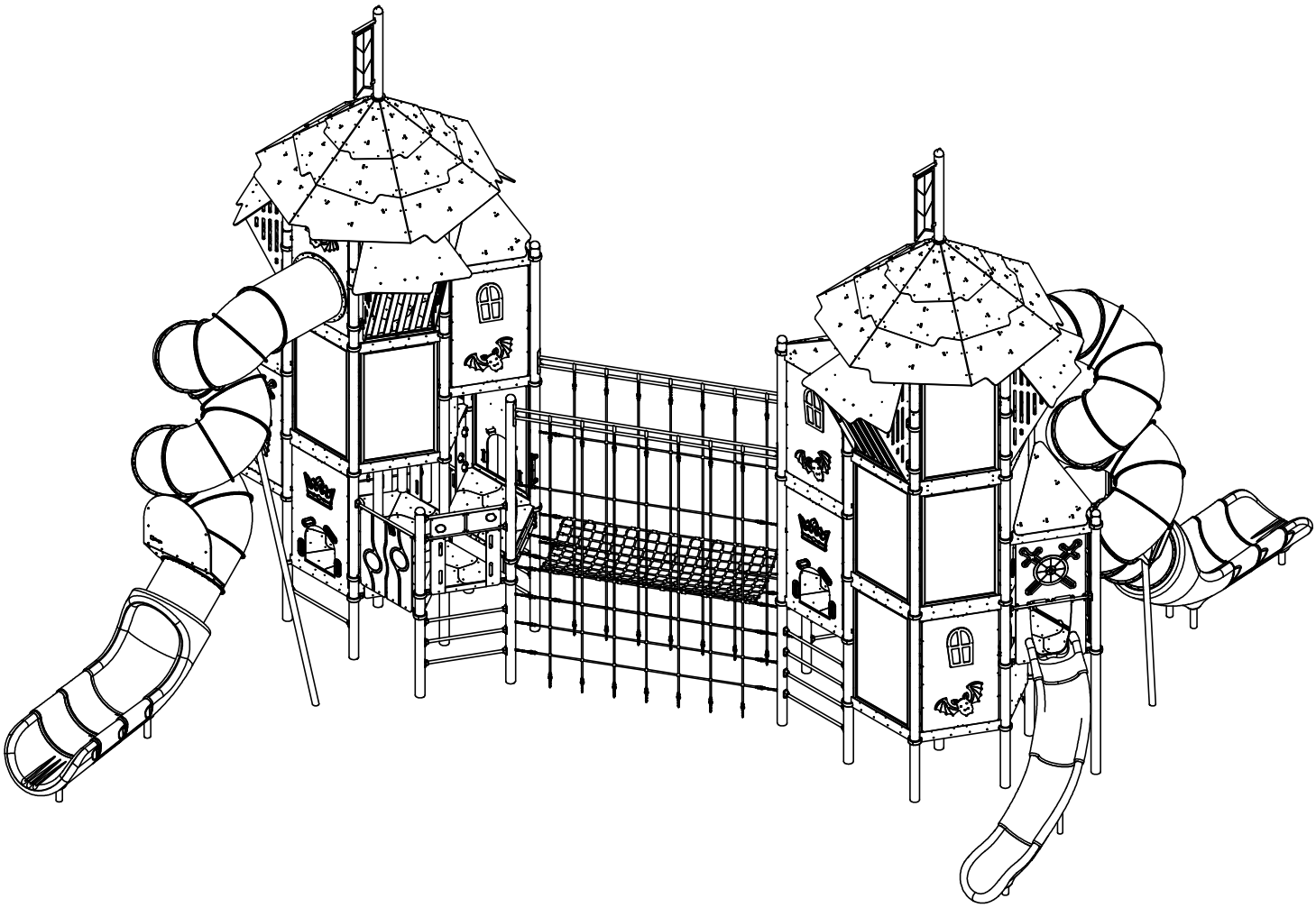
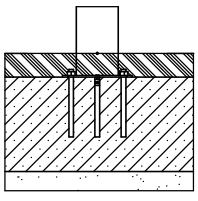
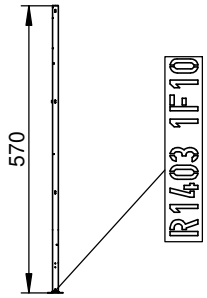
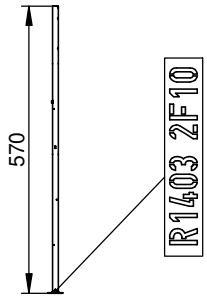
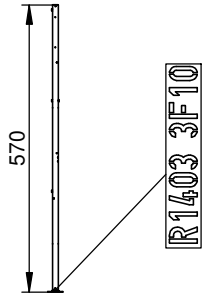
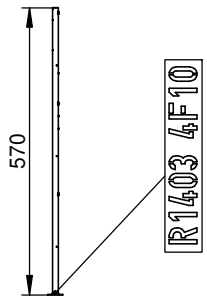
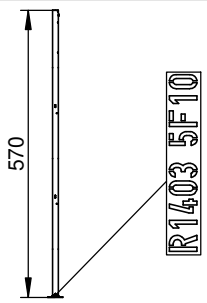
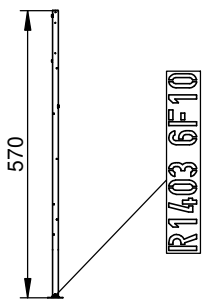


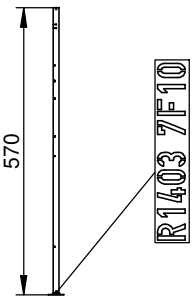
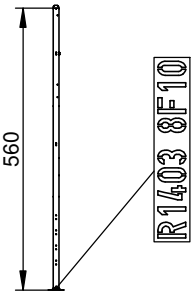
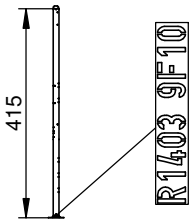
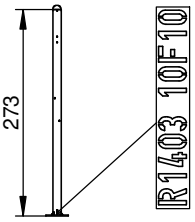
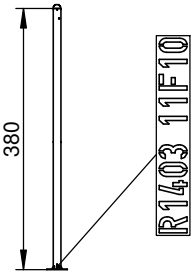
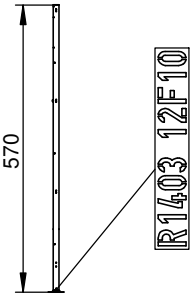
1403

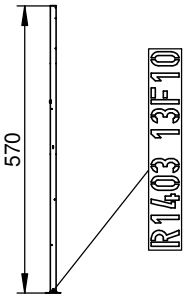
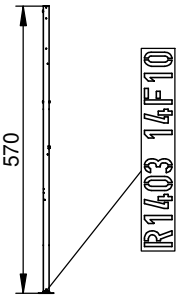
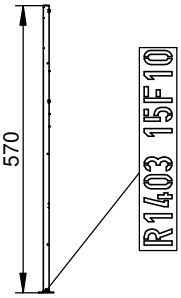
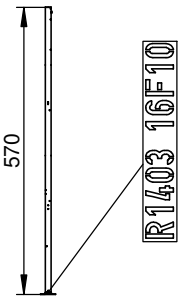
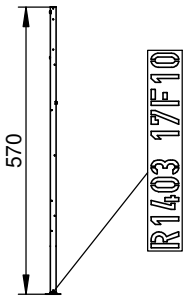
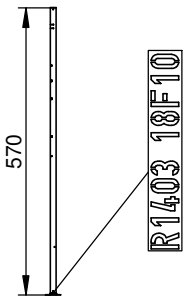


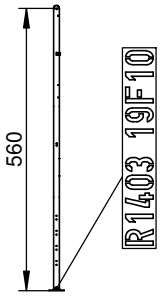
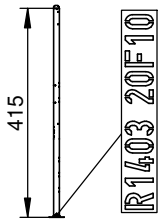
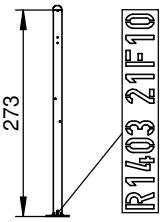
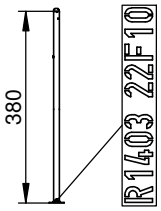
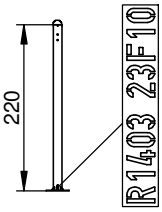
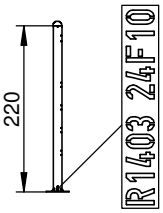


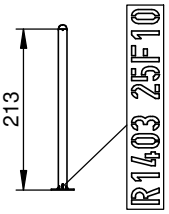
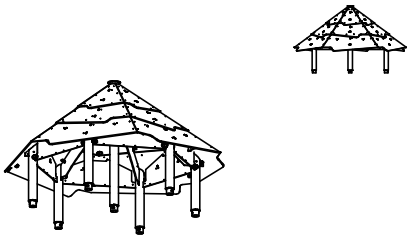
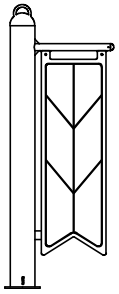
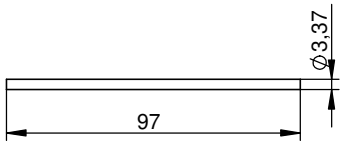
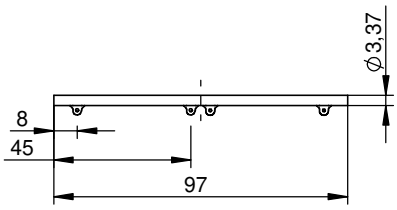
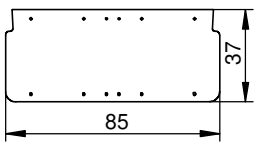
1403 F10

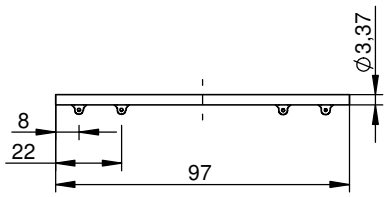
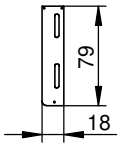
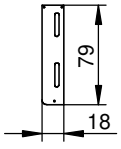
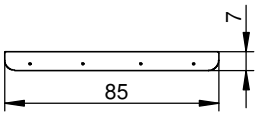
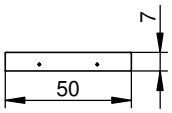
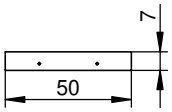
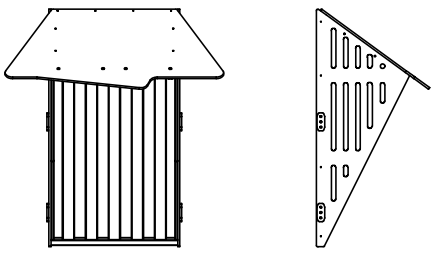
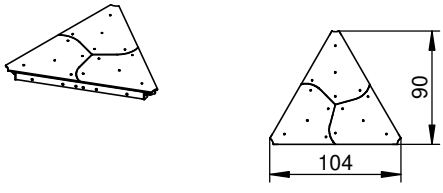
NR	ELEMENT	1403F10
E1		1
E2		1
E3		1
E4		1
E5		1
E6		1

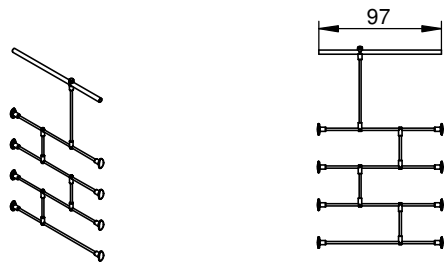
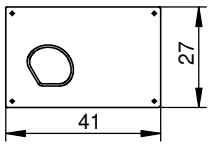
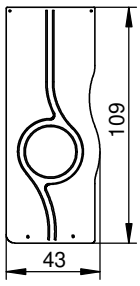
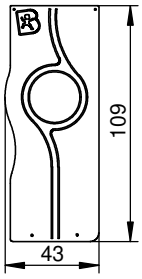
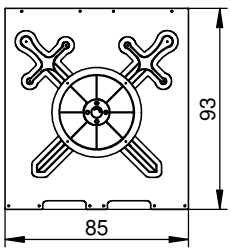
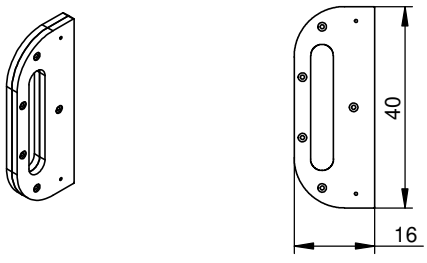
NR	ELEMENT	1403F10
E7		1
E8		1
E9		1
E10		1
E11		1
E12		1

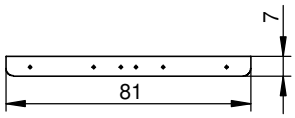
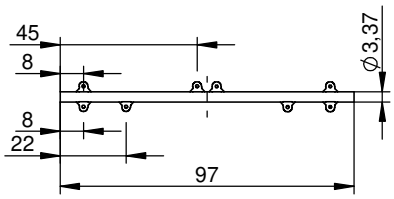
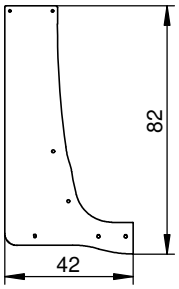
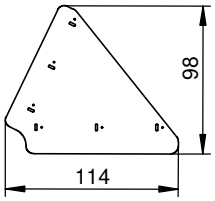
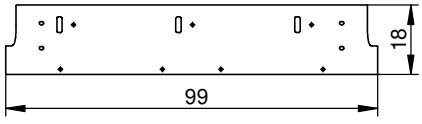
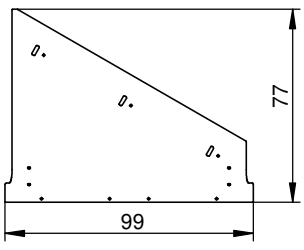
NR	ELEMENT	1403F10
E13		1
E14		1
E15		1
E16		1
E17		1
E18		1

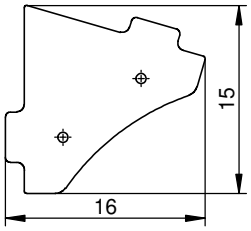
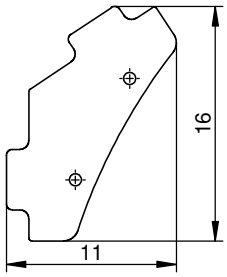
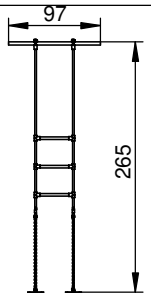
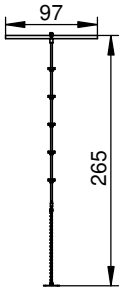
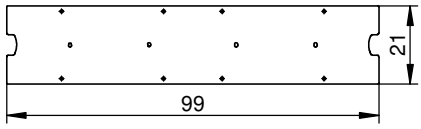
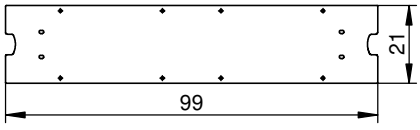
NR	ELEMENT	1403F10
E19		1
E20		1
E21		1
E22		1
E23		1
E24		1

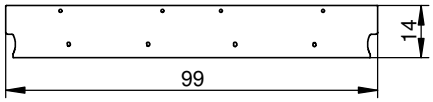
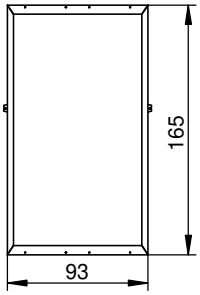
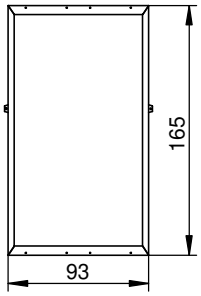
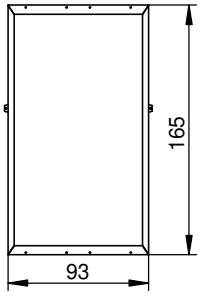
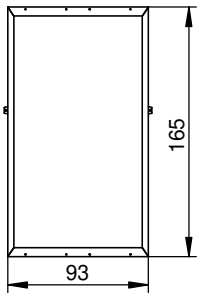
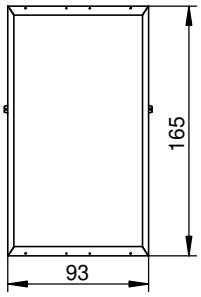
NR	ELEMENT	1403F10
E25		1
E26		2
E27		2
E28		16
E29		4
E30		6

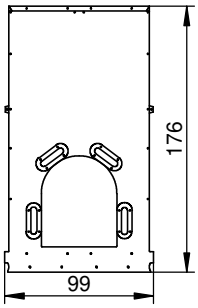
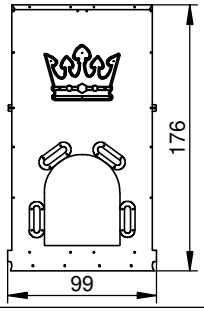
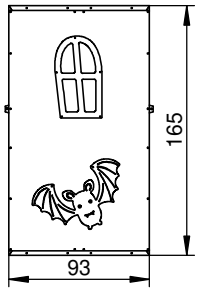
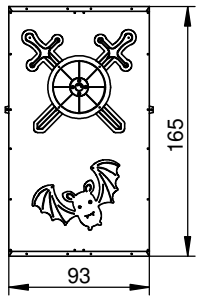
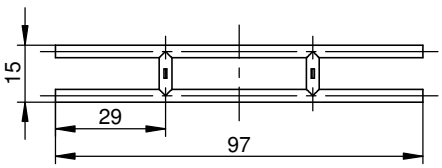
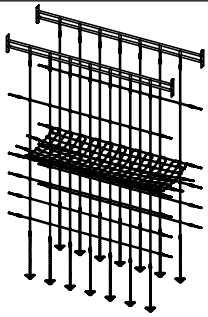
NR	ELEMENT	1403F10
E31		6
E32A		8
E32B		8
E33		2
E34A		4
E34B		4
E35		6
E36		46

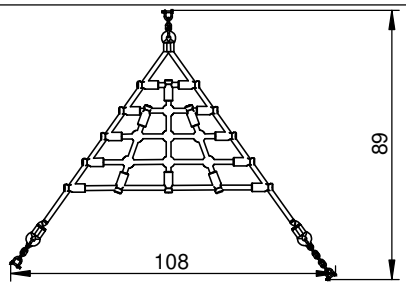
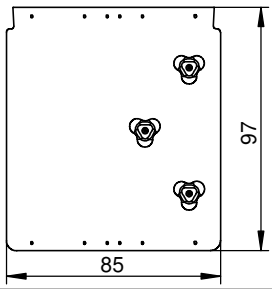
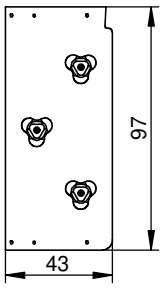
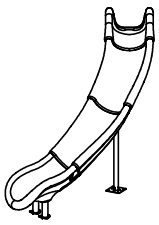
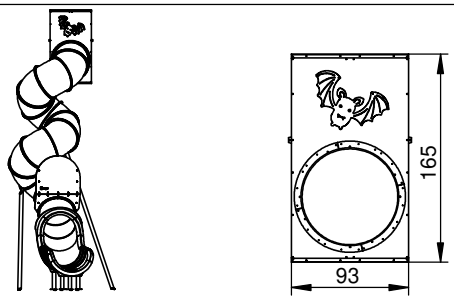
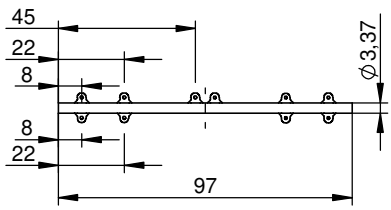
NR	ELEMENT	1403F10
E37		1
E38		4
E39		2
E40		2
E41		1
E42		4

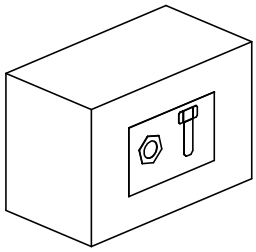
NR	ELEMENT	1403F10
E43		34
E44		2
E45		2
E46		4
E47		4
E48		4

NR	ELEMENT	1403F10
E49		12
E50		12
E51		2
E52		1
E53		8
E54		2

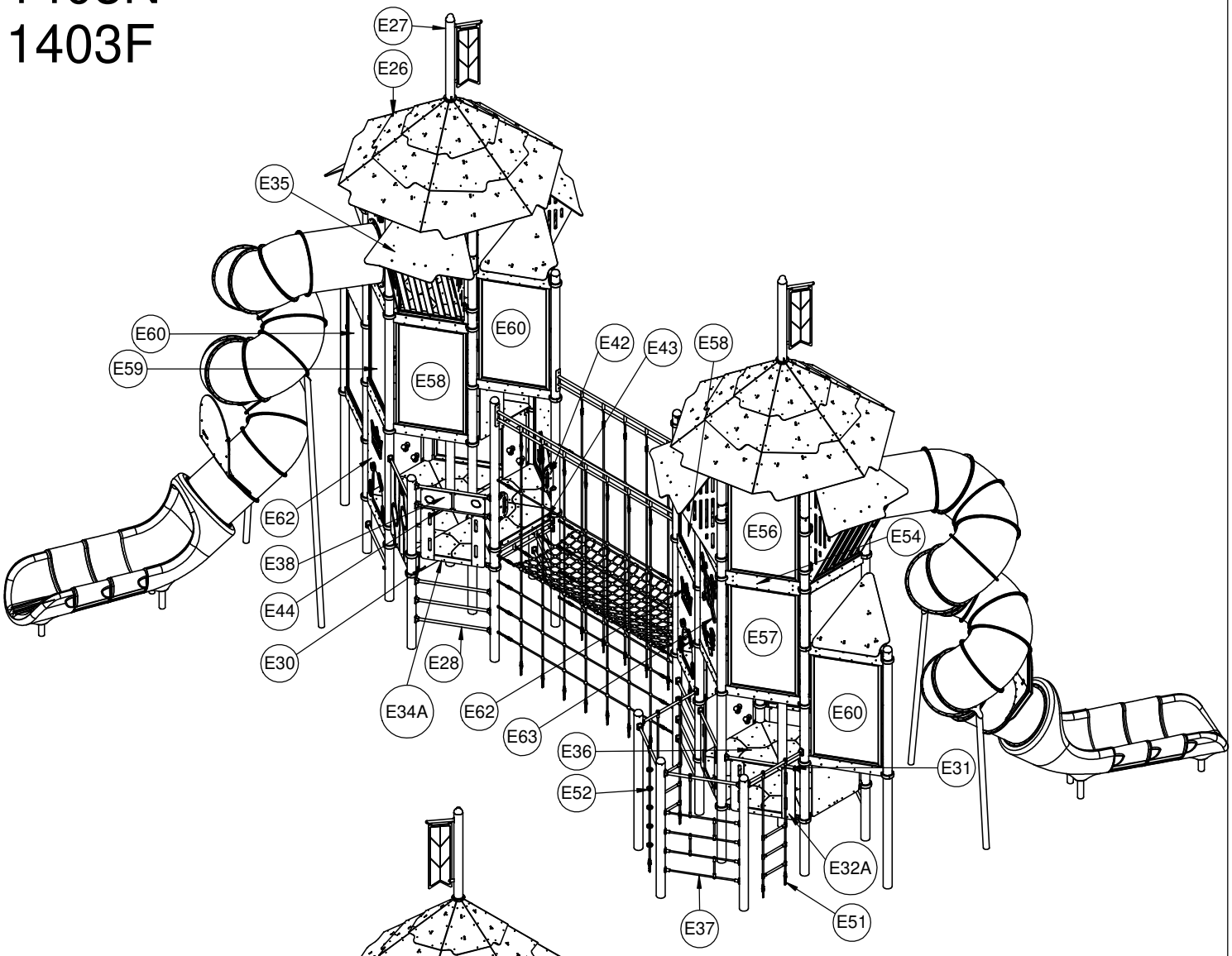
NR	ELEMENT	1403F10
E55		17
E56	 M9_1200_92	2
E57	 M10_1200_92	2
E58	 M11_1200_92	3
E59	 M12_1200_92	2
E60	 M13_1200_92	5

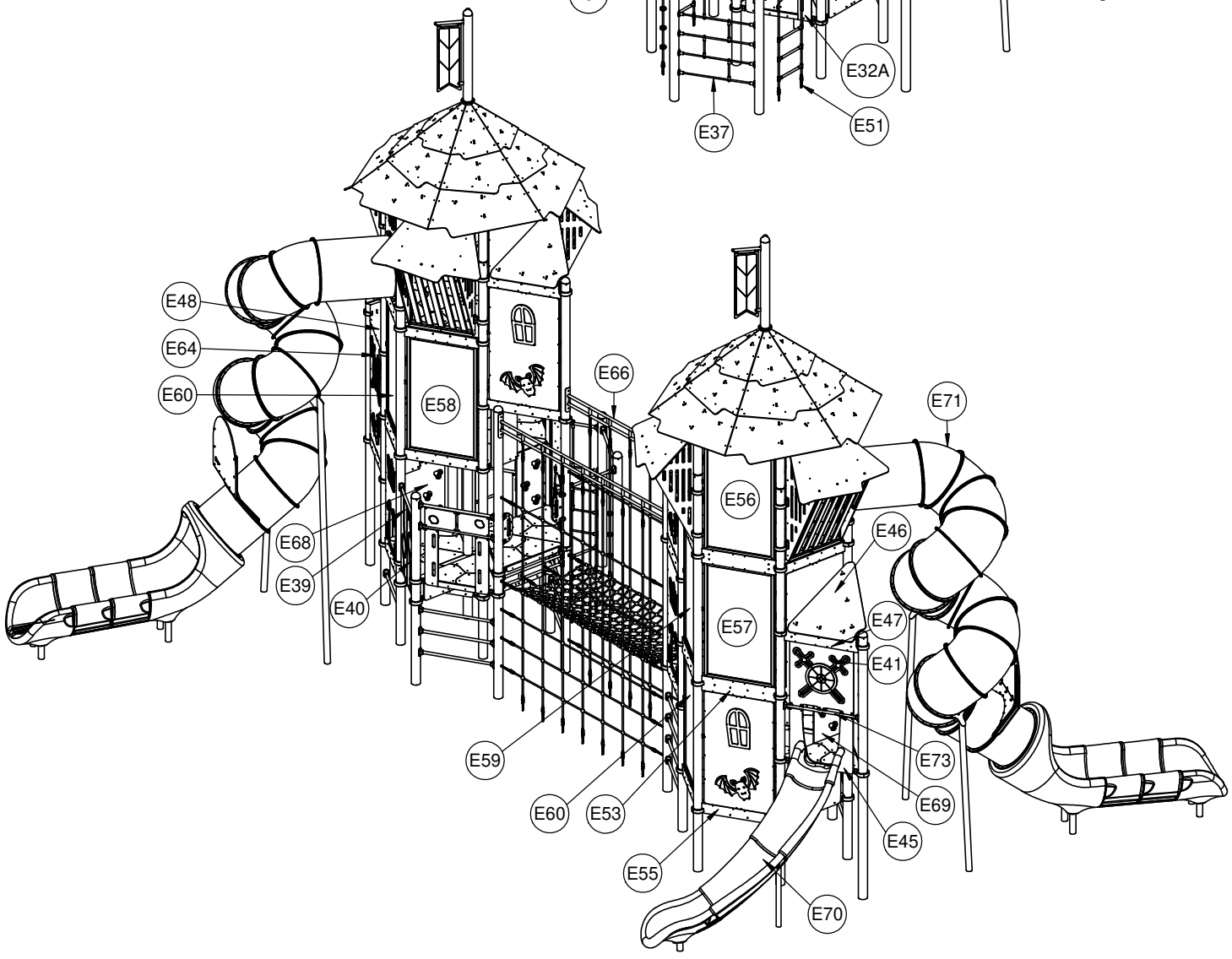
NR	ELEMENT	1403F10
E61		4
E62		4
E63		3
E64		2
E65		2
E66		1

NR	ELEMENT	1403F10
E67		6
E68		4
E69		8
E70		1
E71		2
E72		1

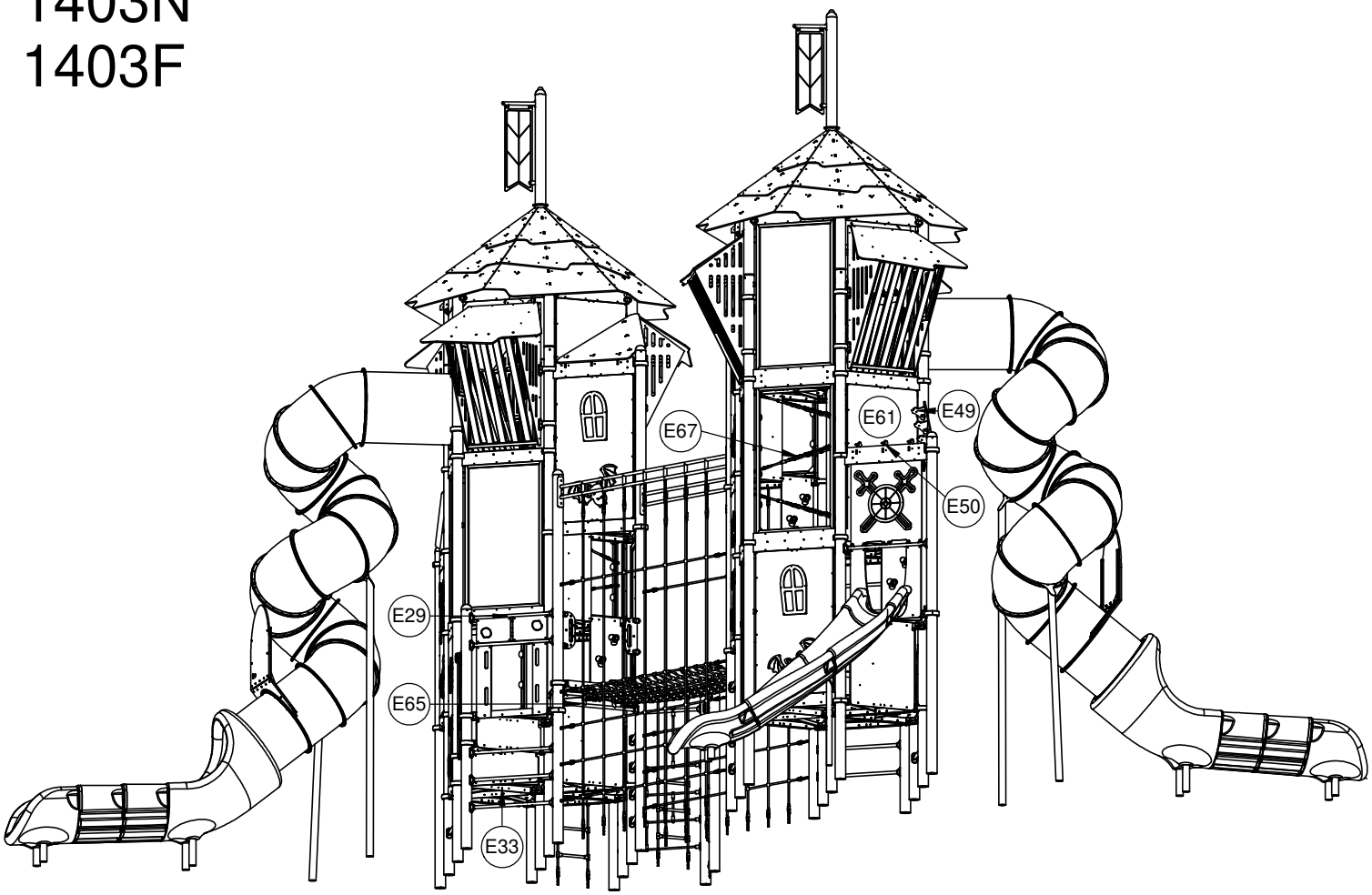
NR	ELEMENT	1403F10
E73		1

1403N
1403F

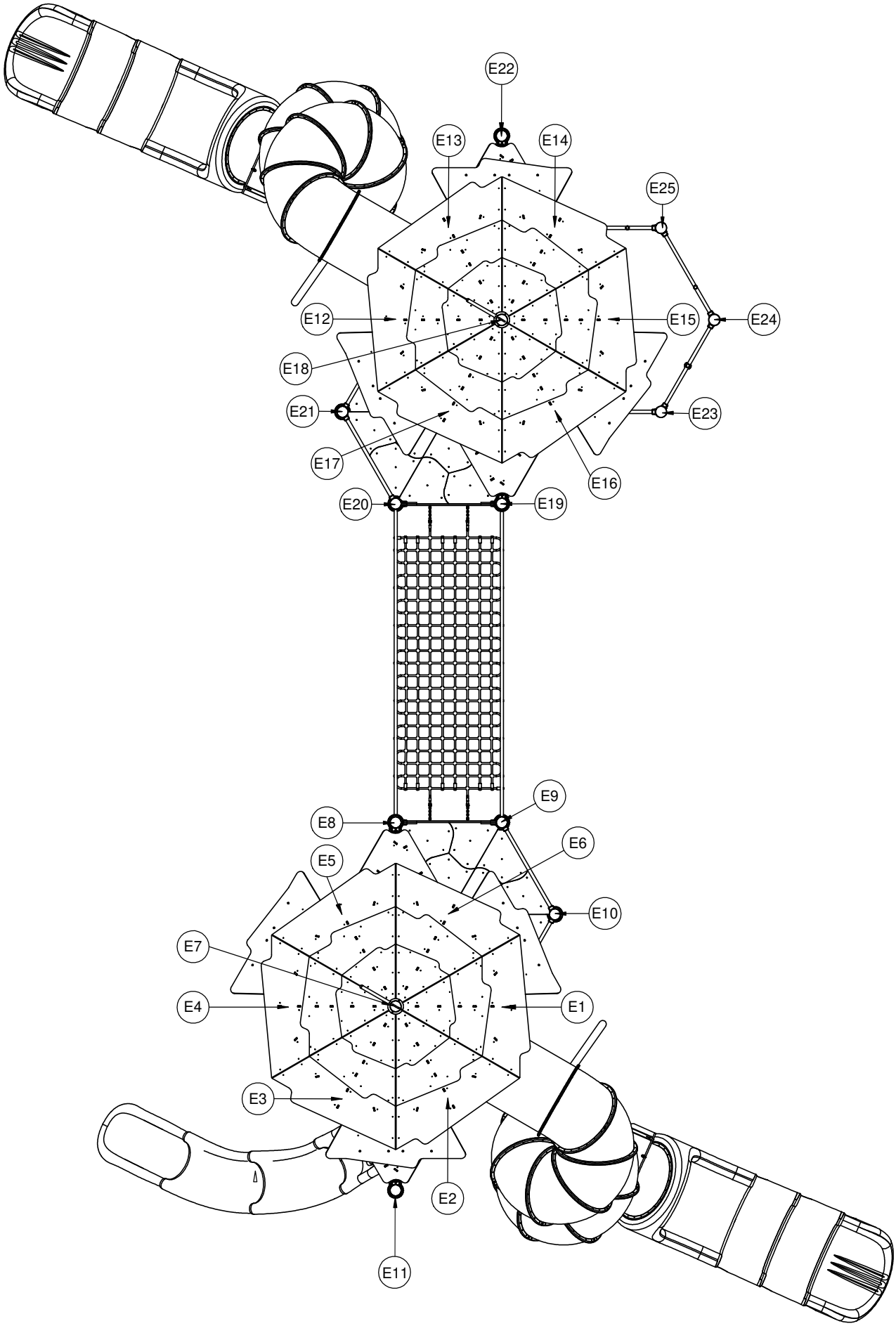

E27
E26
E35
E60
E59
E60
E58
E42
E43
E58
E62
E38
E44
E30
E28
E34A
E62
E63
E36
E52
E56
E54
E57
E60
E31
E32A
E37
E51


E48
E64
E60
E58
E66
E71
E56
E68
E39
E40
E46
E57
E47
E41
E59
E73
E60
E53
E69
E45
E55
E70

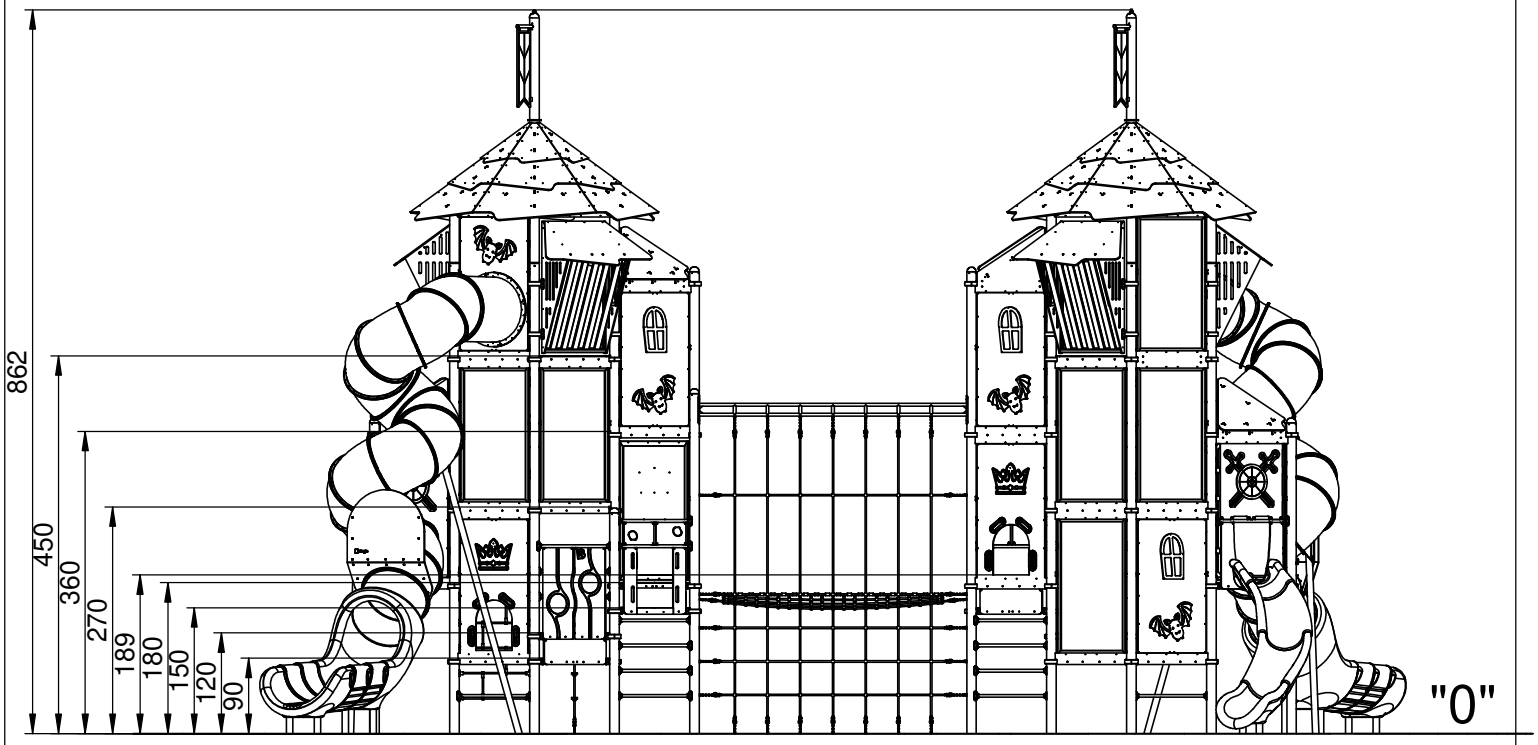
1403N
1403F

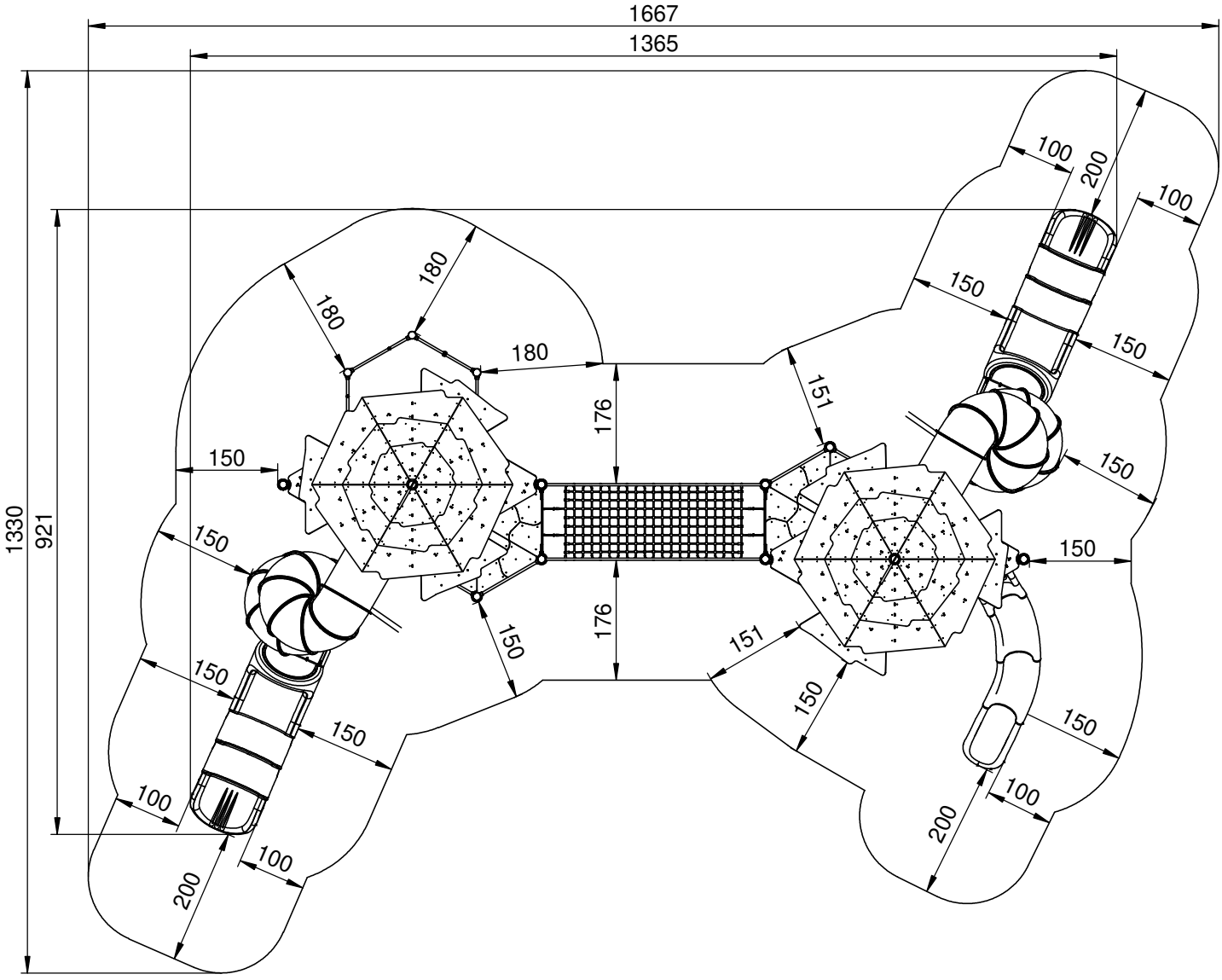


1403N
1403F

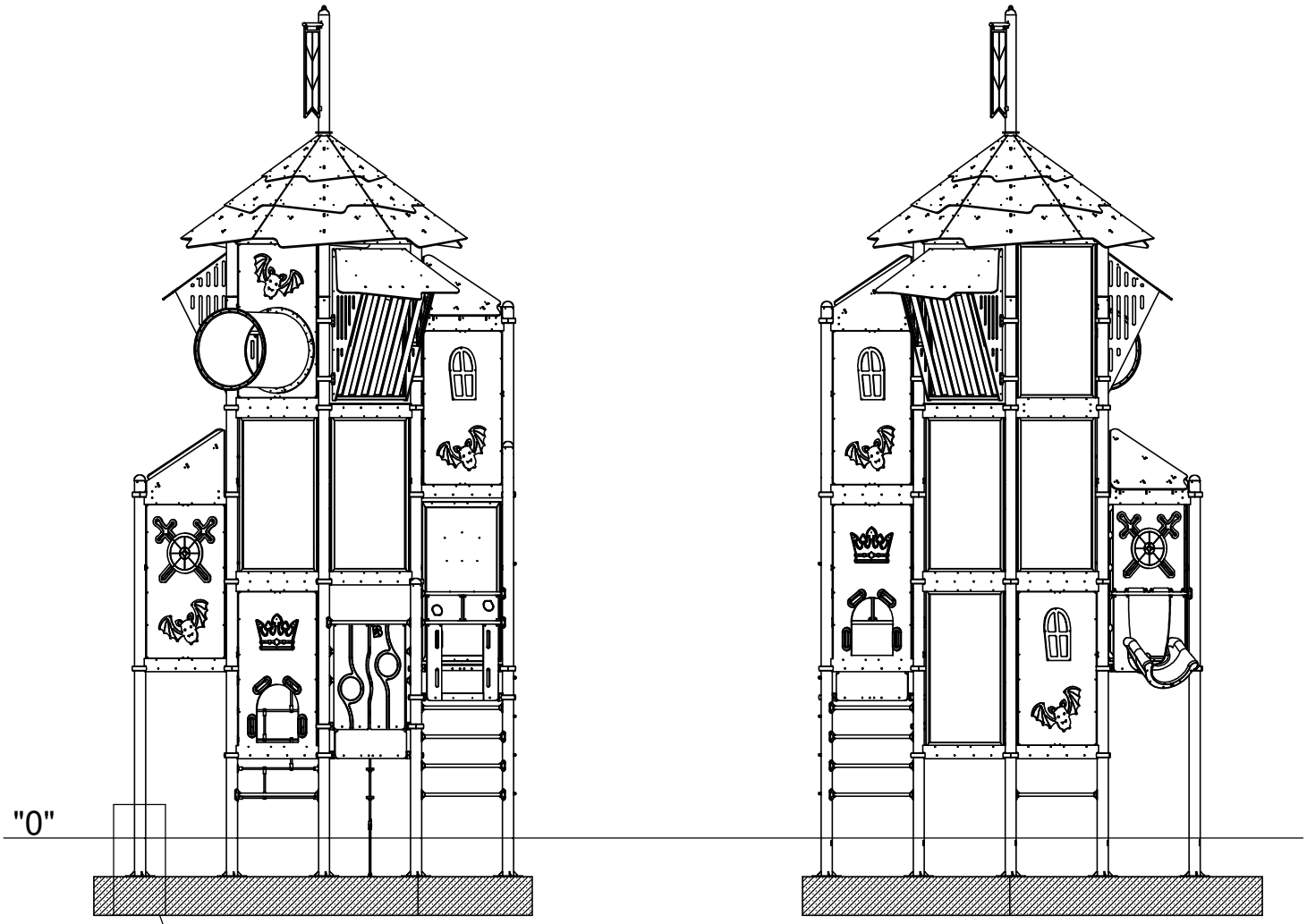

E22
E13
E14
E25
E12
E15
E24
E18
E21
E23
E17
E16
E20
E19
E9
E8
E6
E5
E10
E7
E4
E1
E3
E2
E11

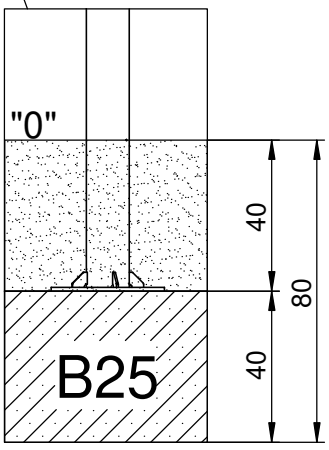
1403N
1403F

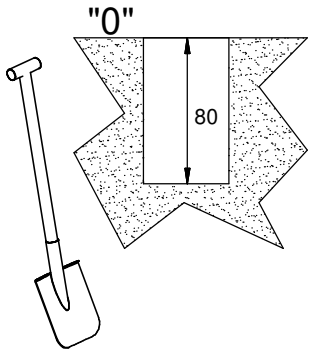

862
450
360
270
189
180
150
120
90
"0"


1667
1365
1330
921
100
200
180
176
151
150

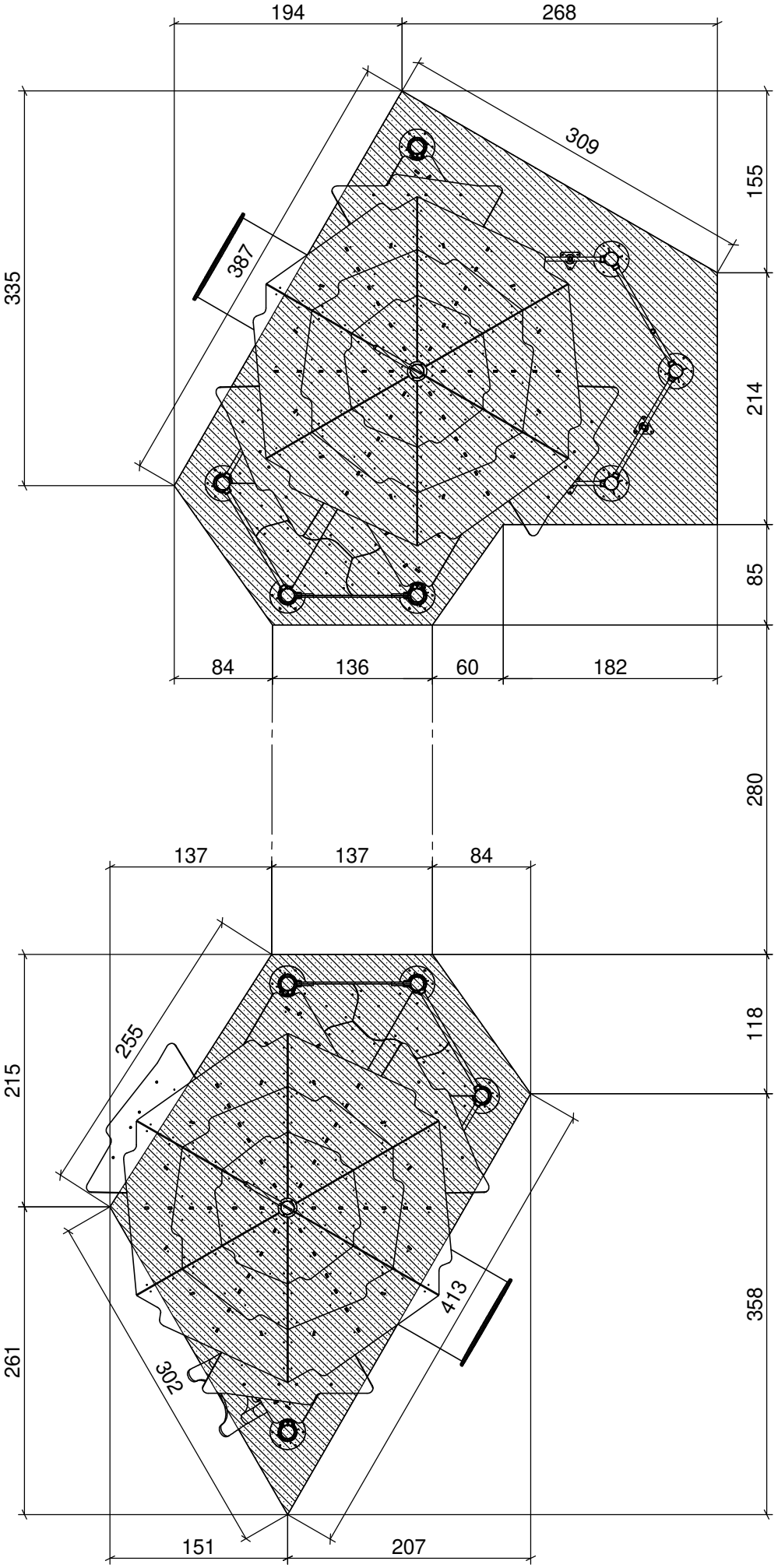
1403N







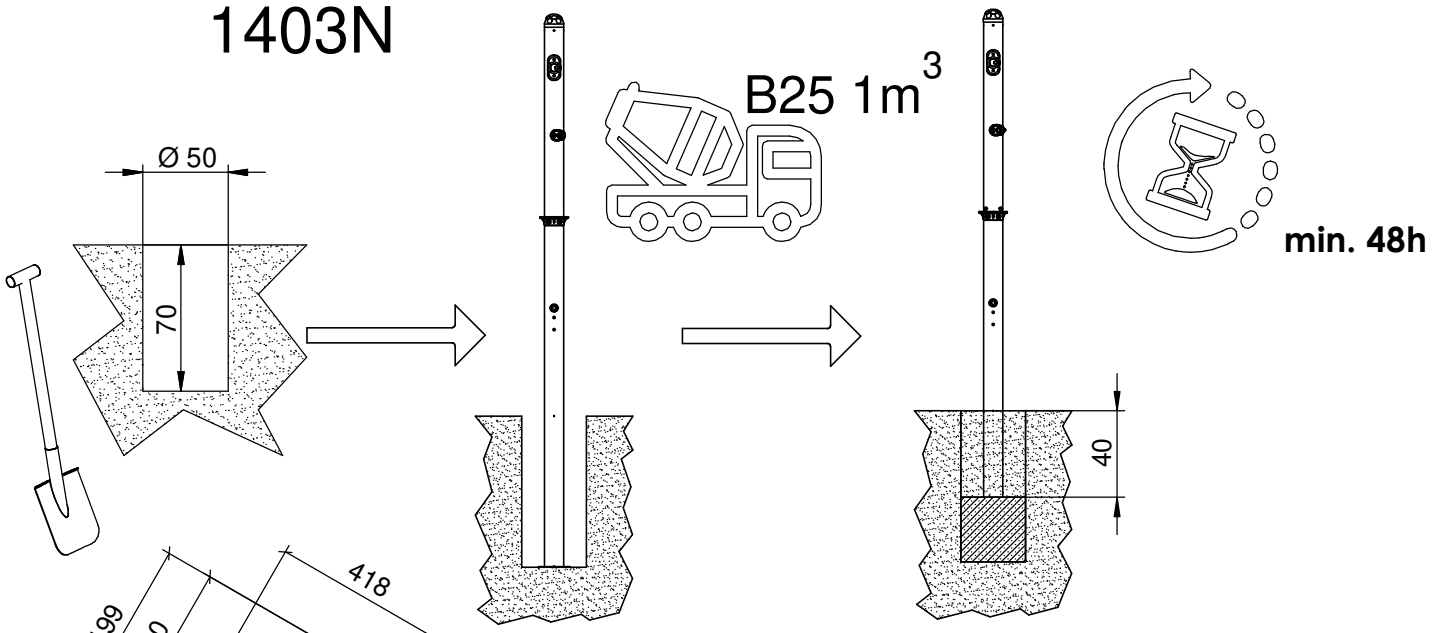
1403N

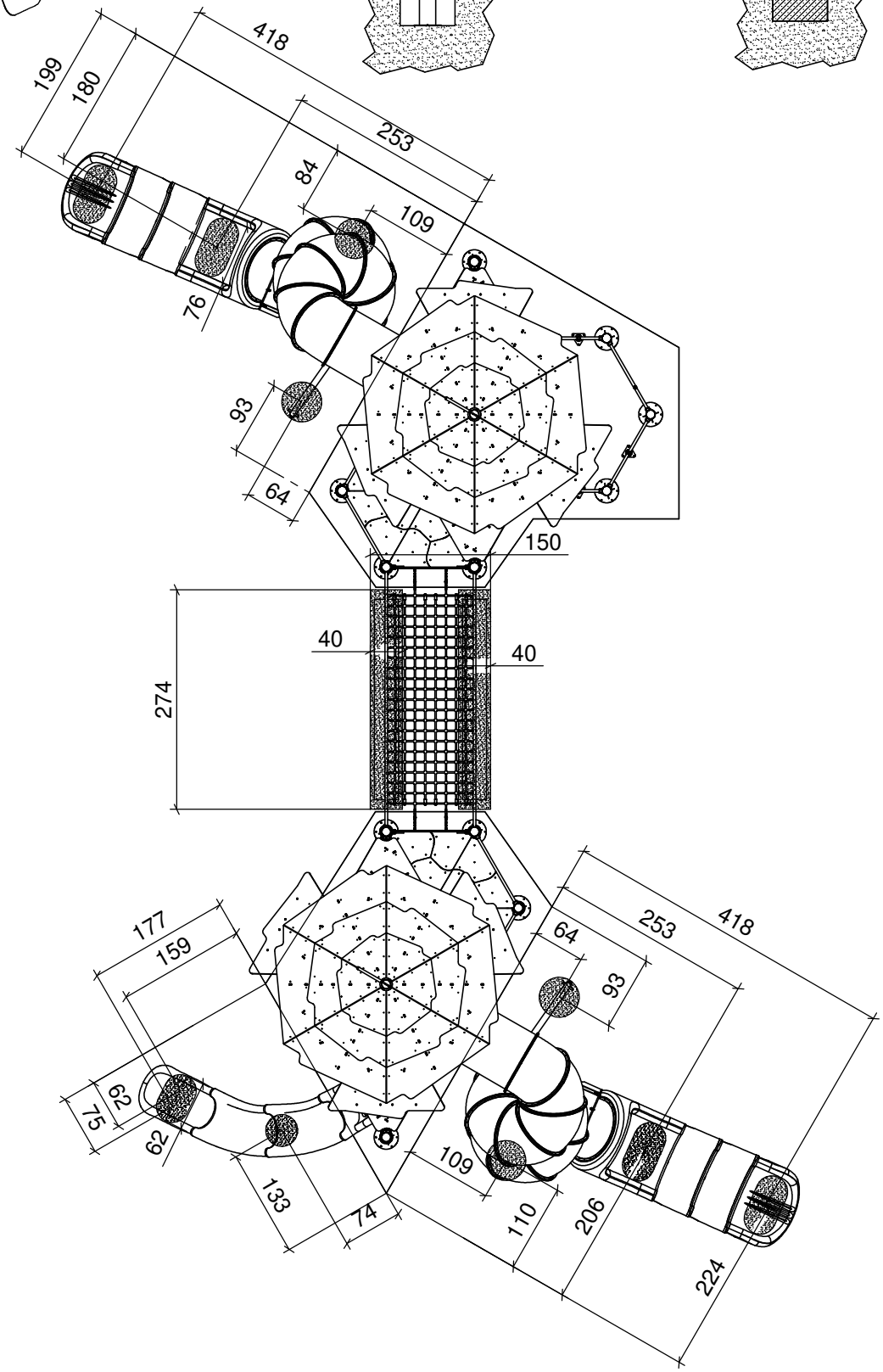


B25 9,5m^3

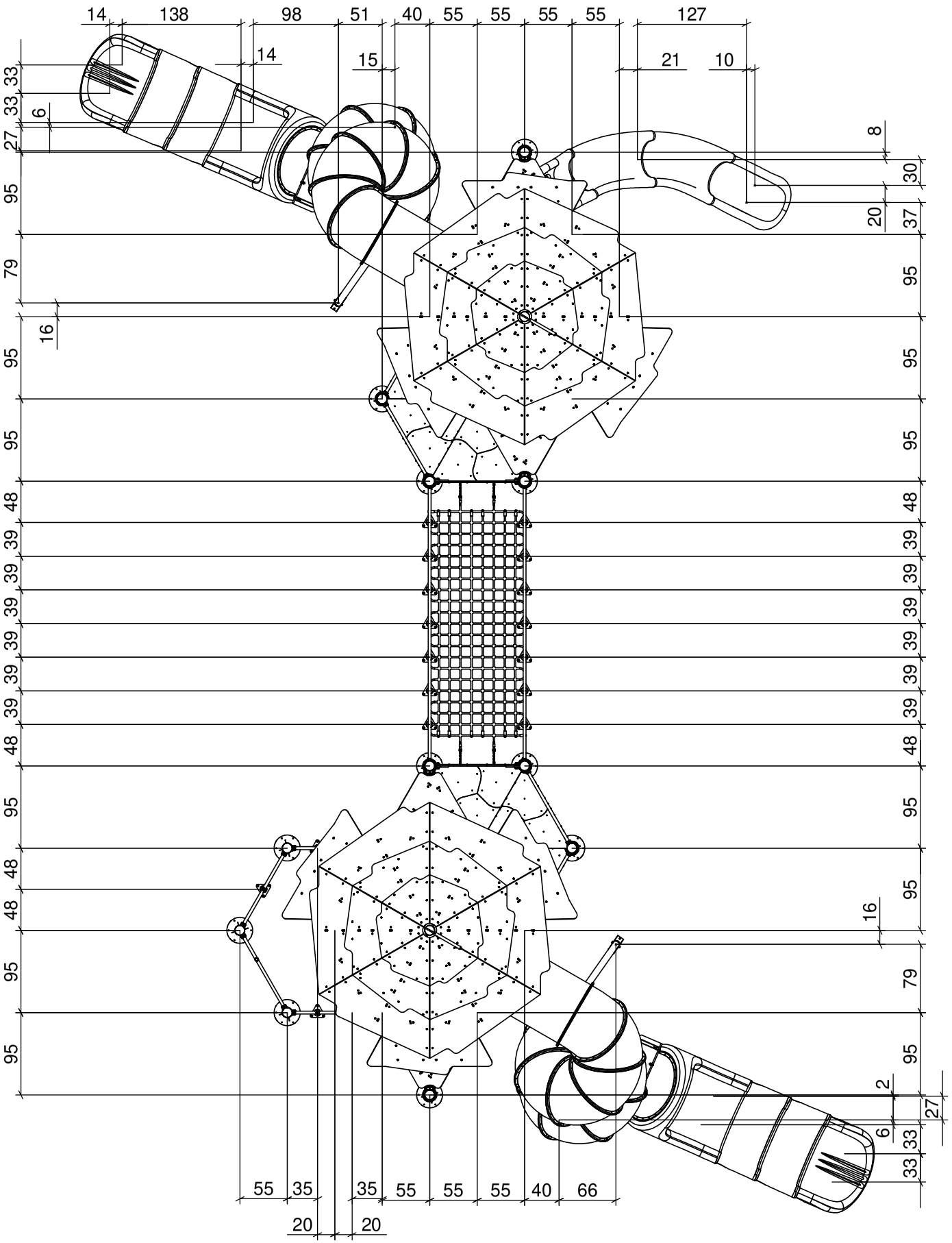
min. 48h

1403N


Ø 50
70
B25 1m3
min. 48h
40

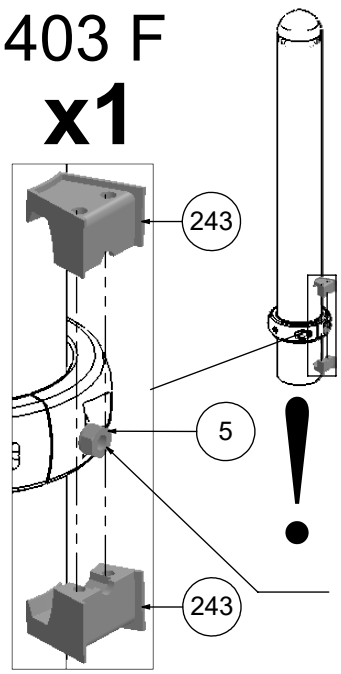

418
199
180
253
84
109
76
93
64
150
40
40
274
177
159
253
418
64
93
62
75
62
133
74
109
110
206
224

1403F

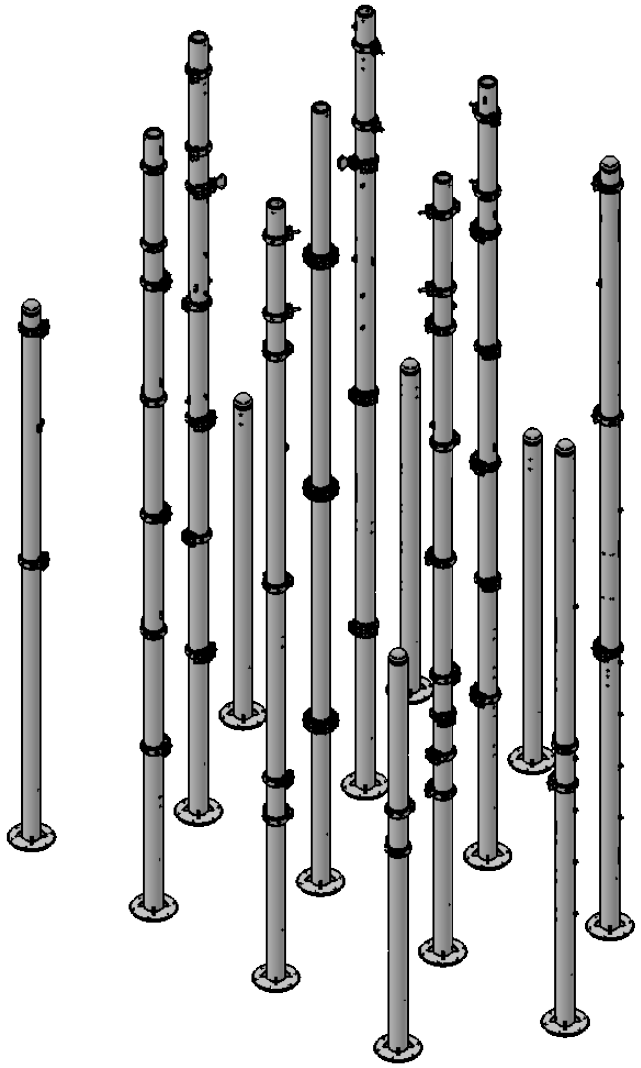

14
138
98
51
40
55
55
55
55
127
14
15
21
10
33
33
6
27
8
30
95
20
37
79
95
16
95
95
95
95
48
48
39
39
39
39
39
39
39
39
39
39
48
48
95
95
48
48
16
95
95
79
95
95
2
27
6
33
33
55
35
35
55
55
55
40
66
20
20

1403 N
1403 F

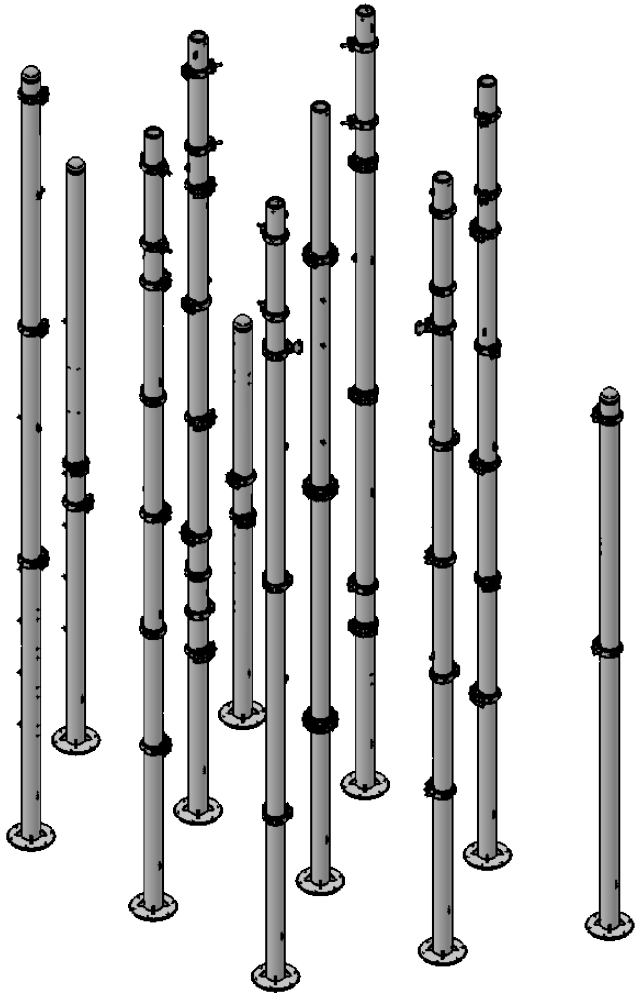
x1



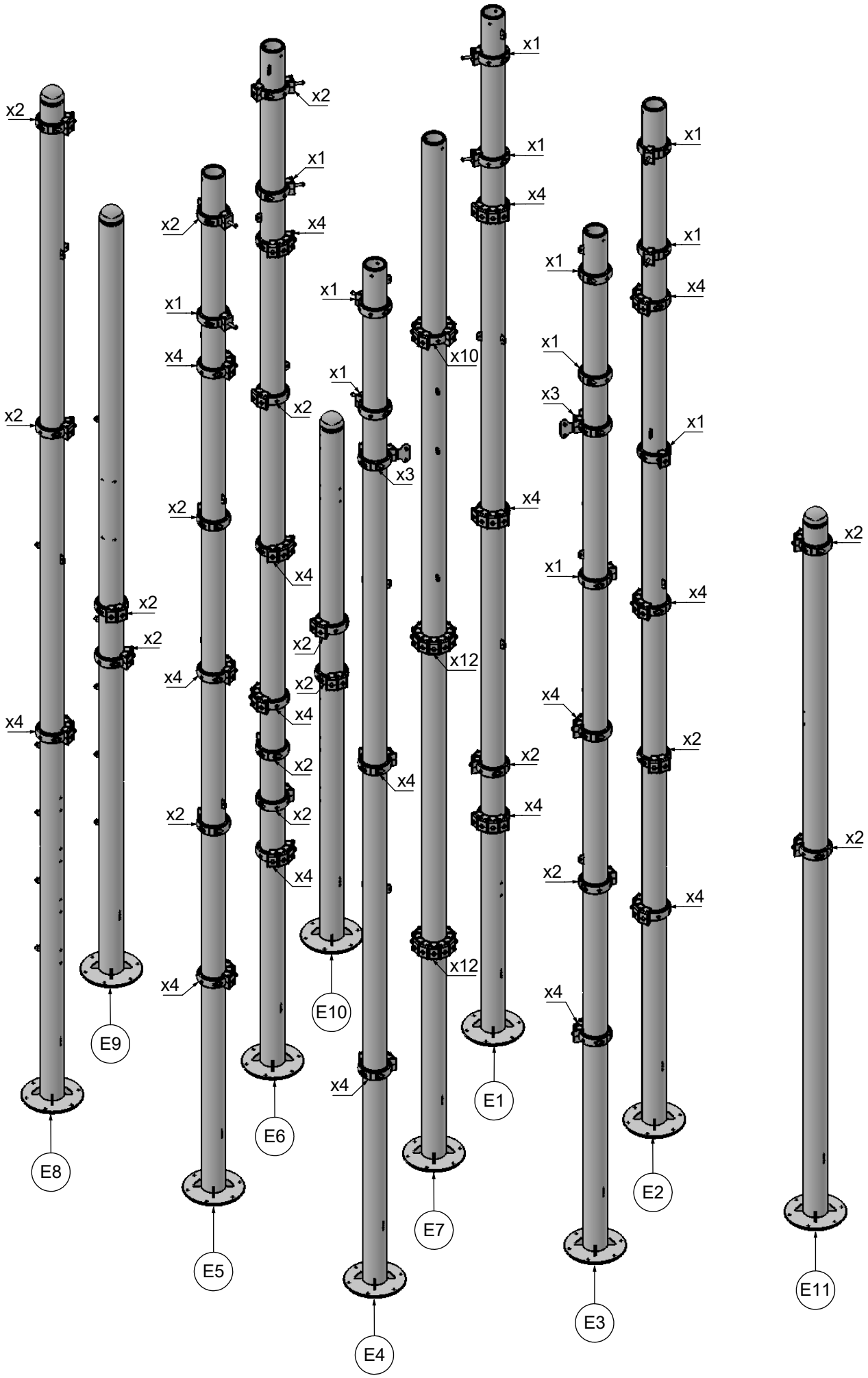
B



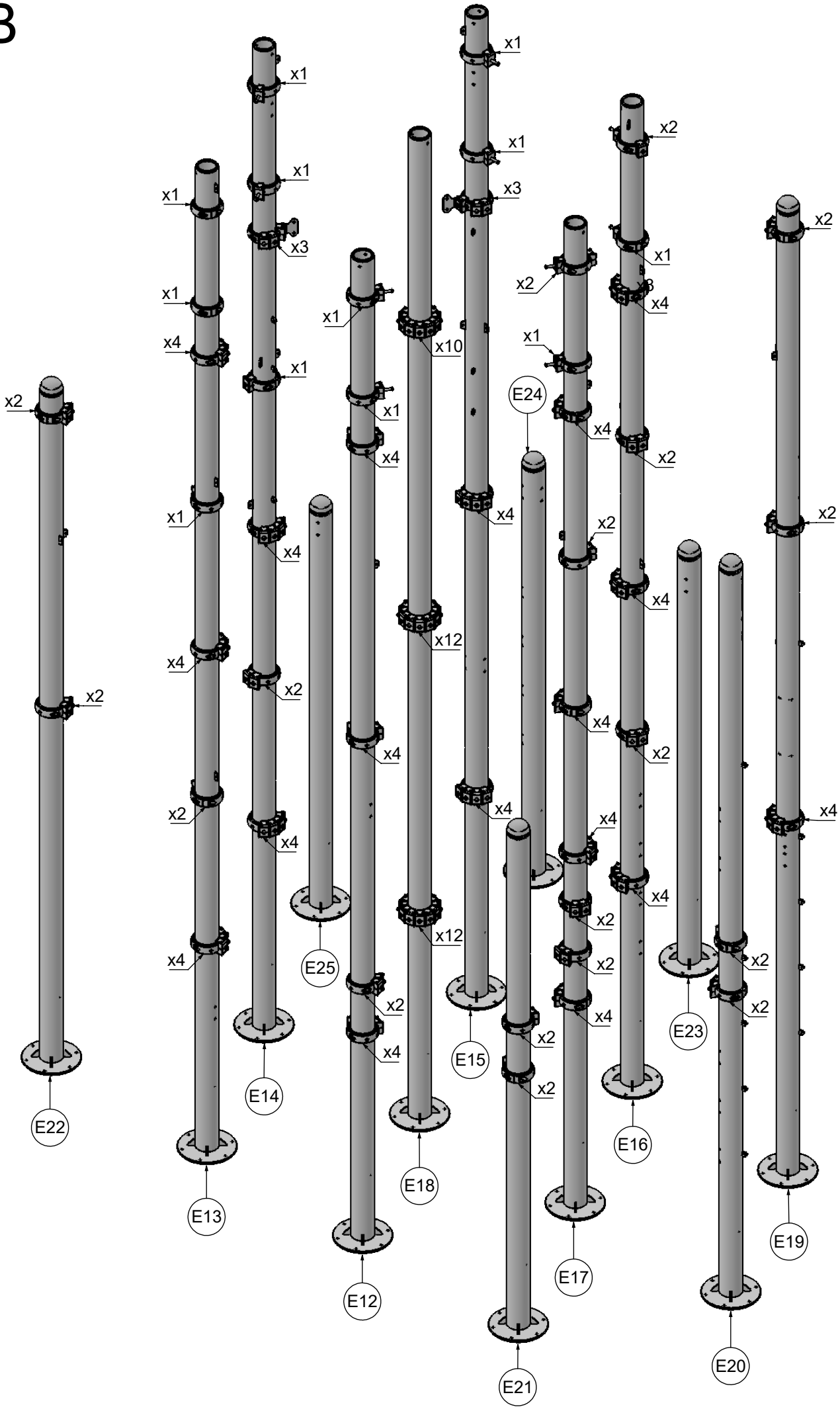
A



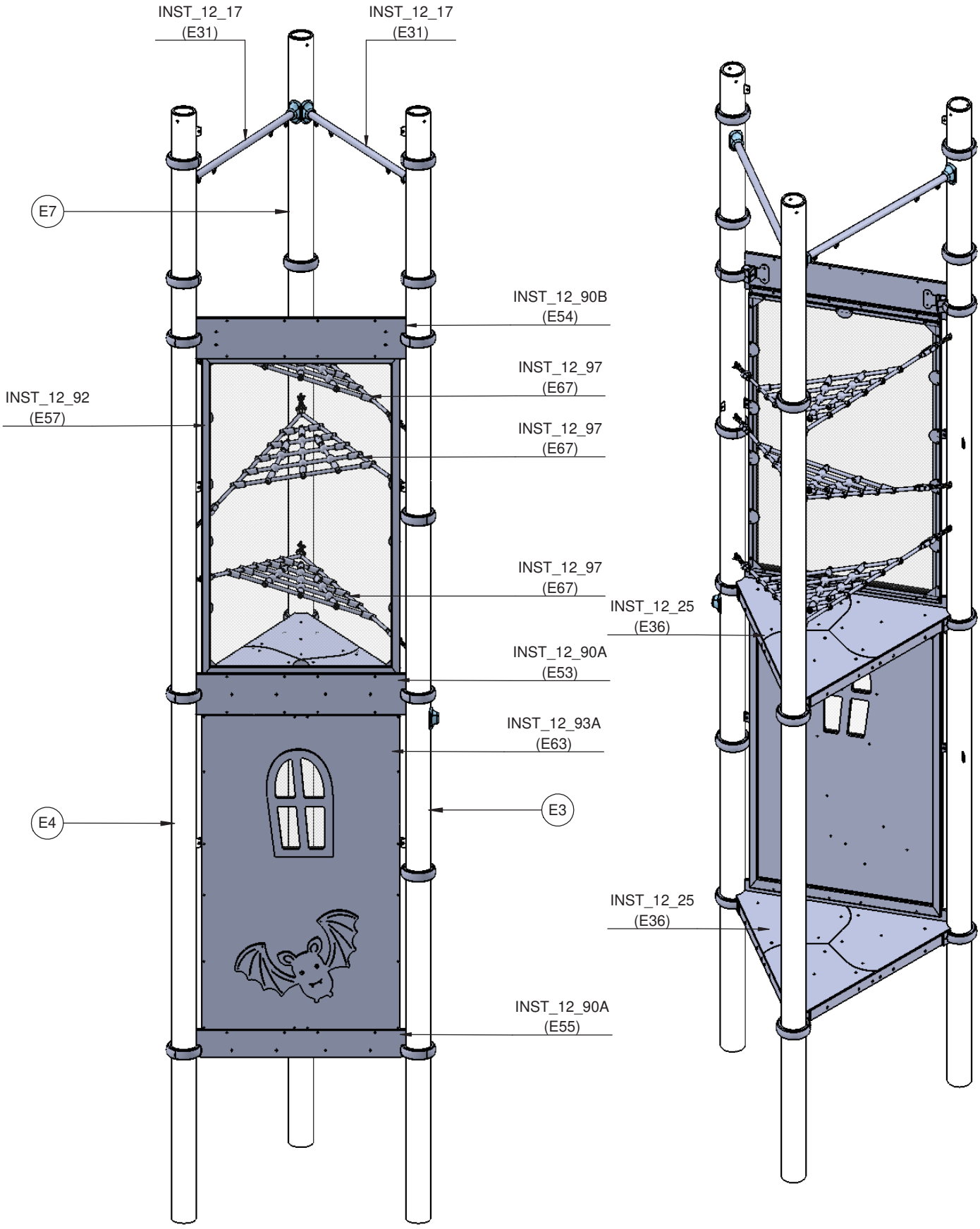
A


x2
x2
x4
E8
x2
x2
E9
x2
x1
x4
x1
x4
x2
x4
x2
x4
E6
x2
x4
E5
x1
x3
x4
x2
x4
x2
x2
x4
E10
x1
x3
x4
x4
E4
x1
x10
x12
x12
E7
x1
x1
x4
x2
x4
E1
x1
x1
x3
x1
x4
x2
x4
E3
x1
x1
x4
x1
x4
x2
x4
E2
x2
x2
E11

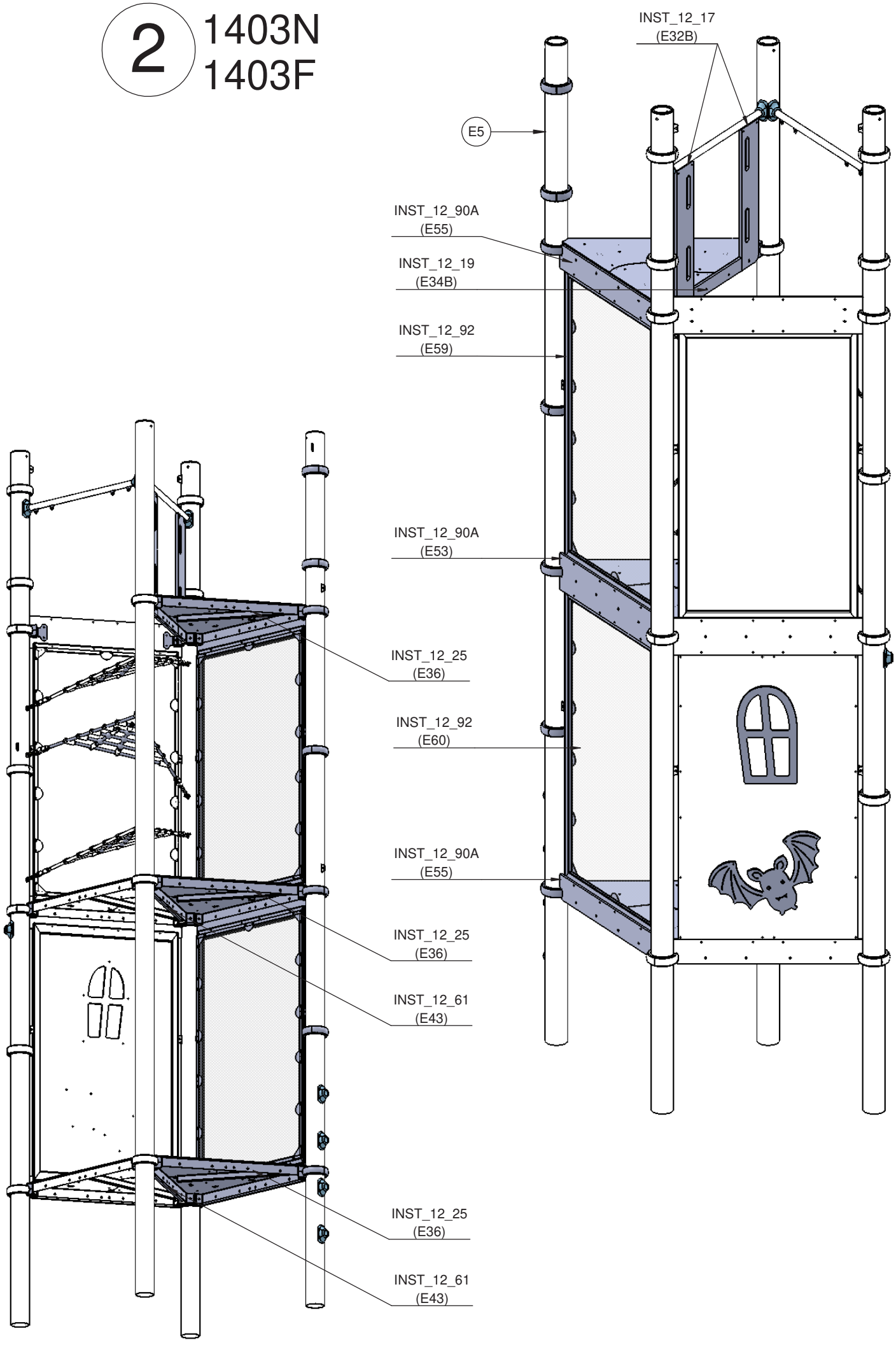
B


x2
x2
E22
x1
x1
x4
x1
x4
x2
x4
E13
x1
x1
x3
x1
x4
x2
x4
E14
x1
x1
x4
x4
x4
x4
E12
x1
x10
x12
x12
x2
E18
x1
x1
x3
x4
x4
x2
x2
x2
E15
x1
E24
x4
x2
x4
x4
x2
x2
x4
E17
x2
x1
x4
x4
x2
x4
x4
E16
x2
E25
E23
x2
x2
E20
x2
x2
x4
E19
E21

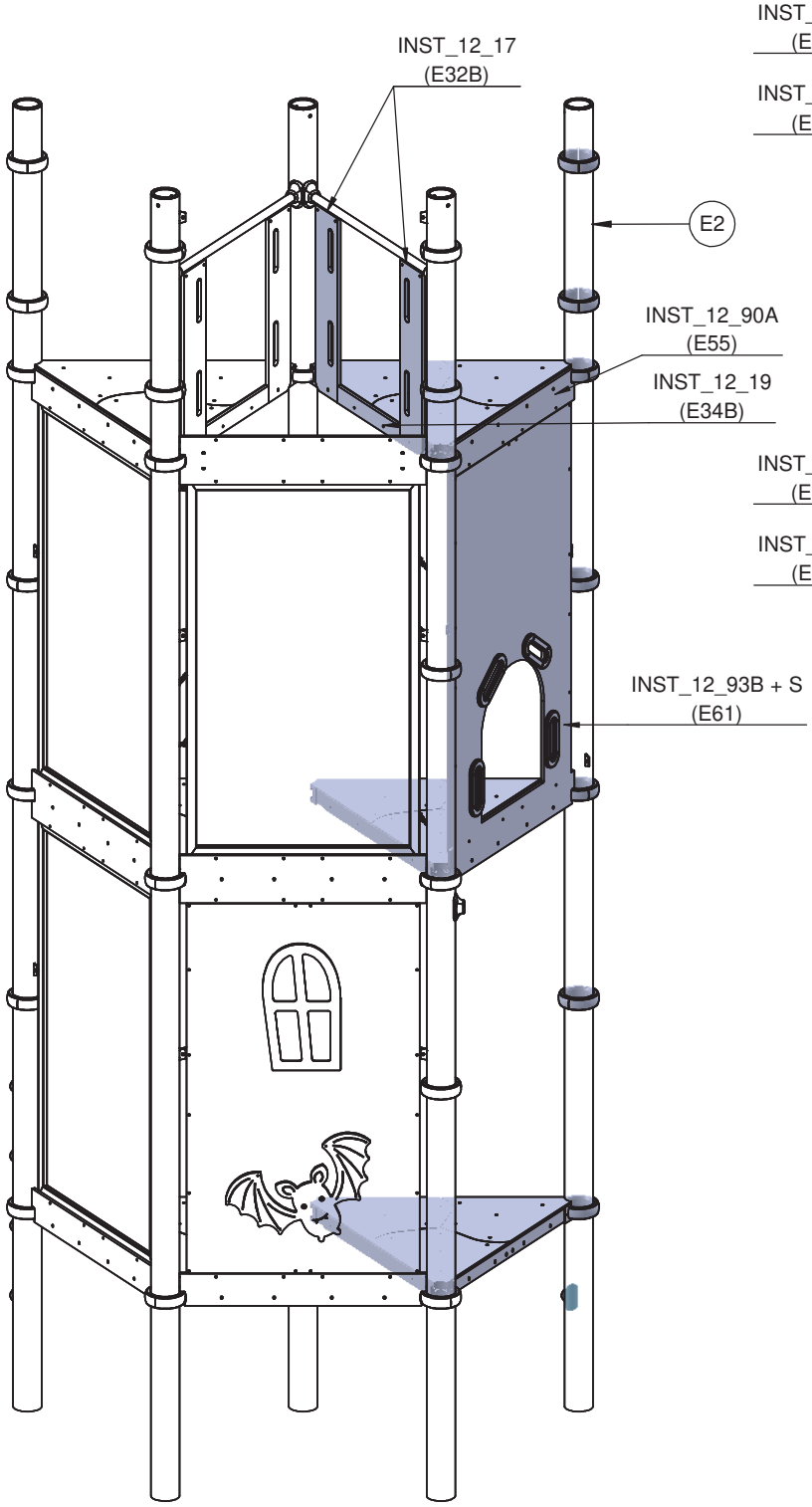
1 1403N 1403F

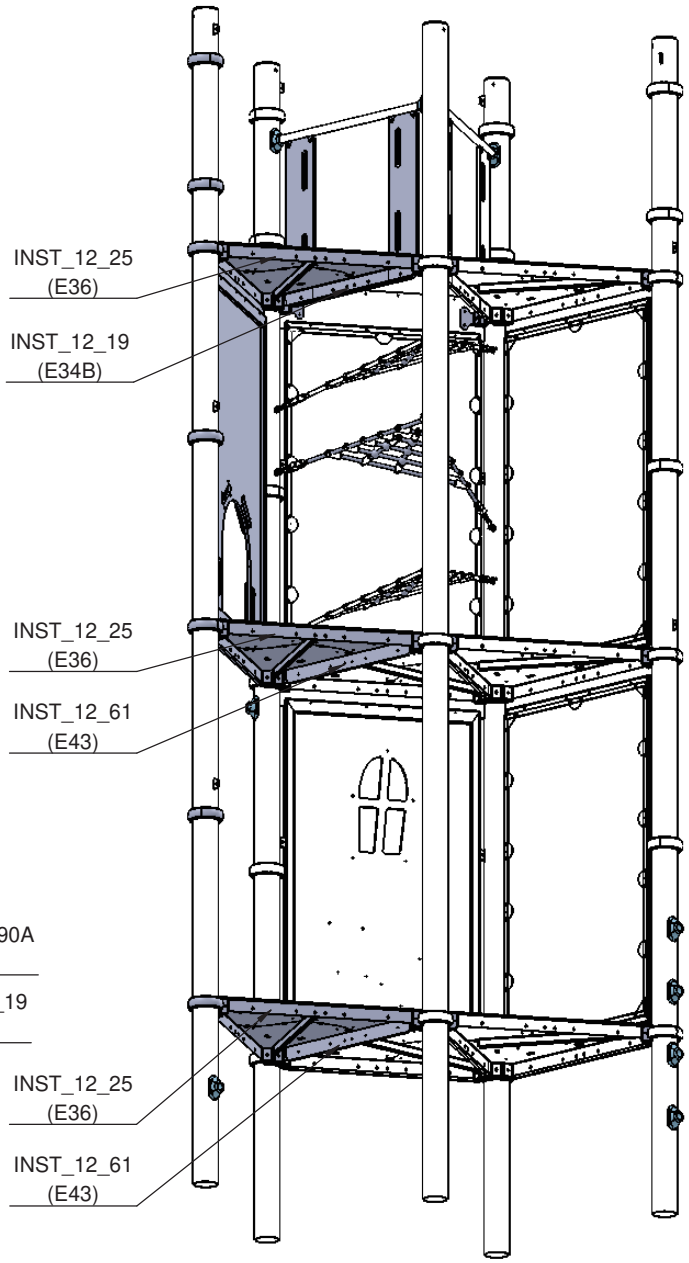


2 1403N 1403F

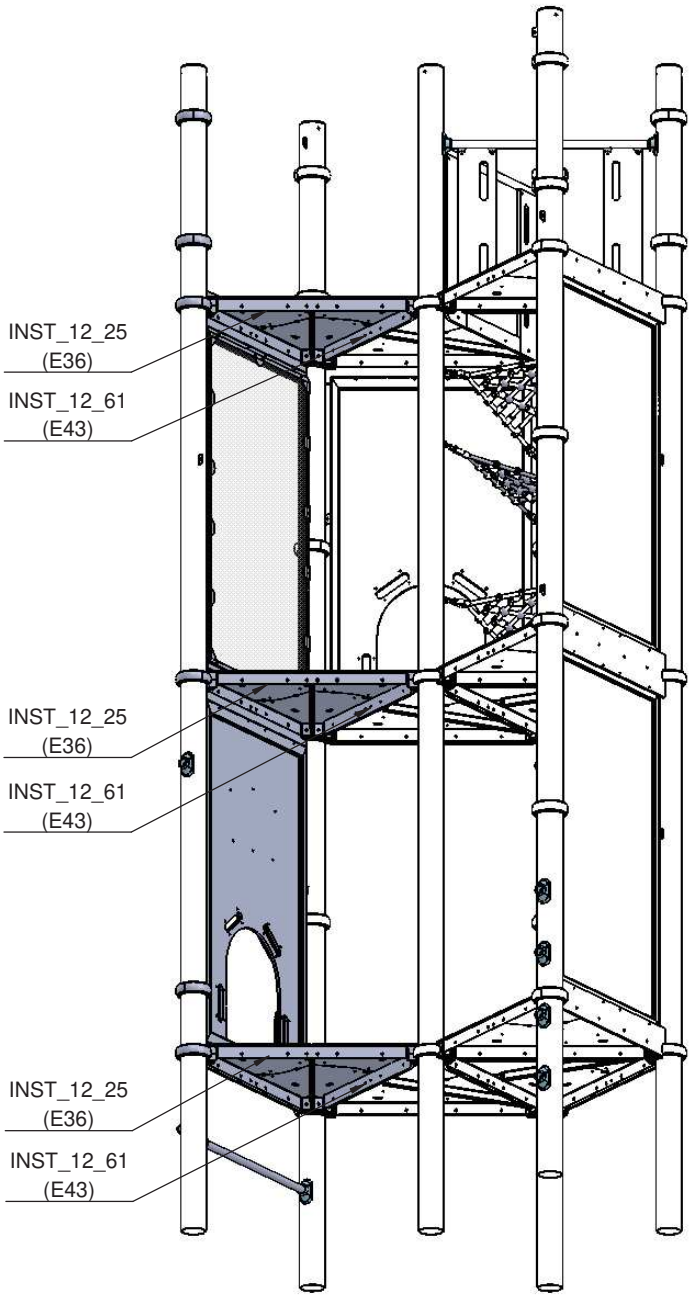


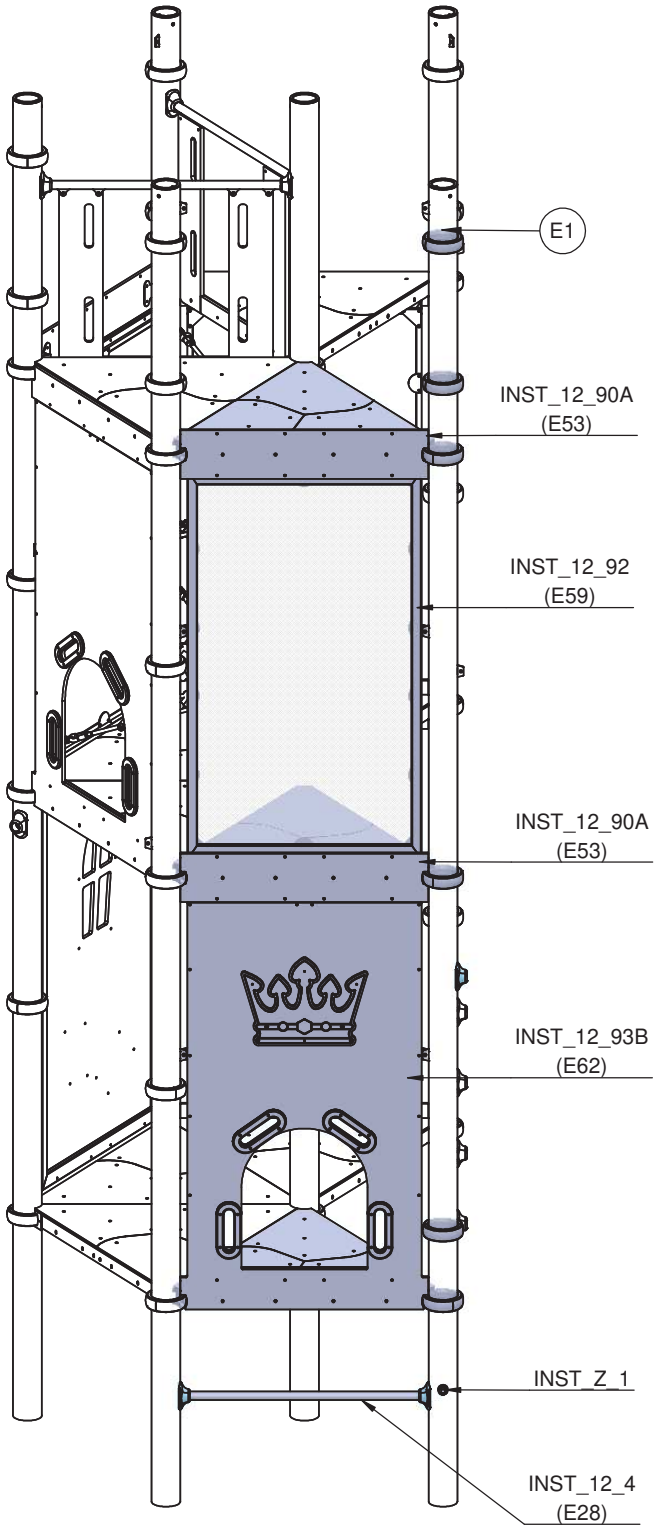
3 1403N 1403F



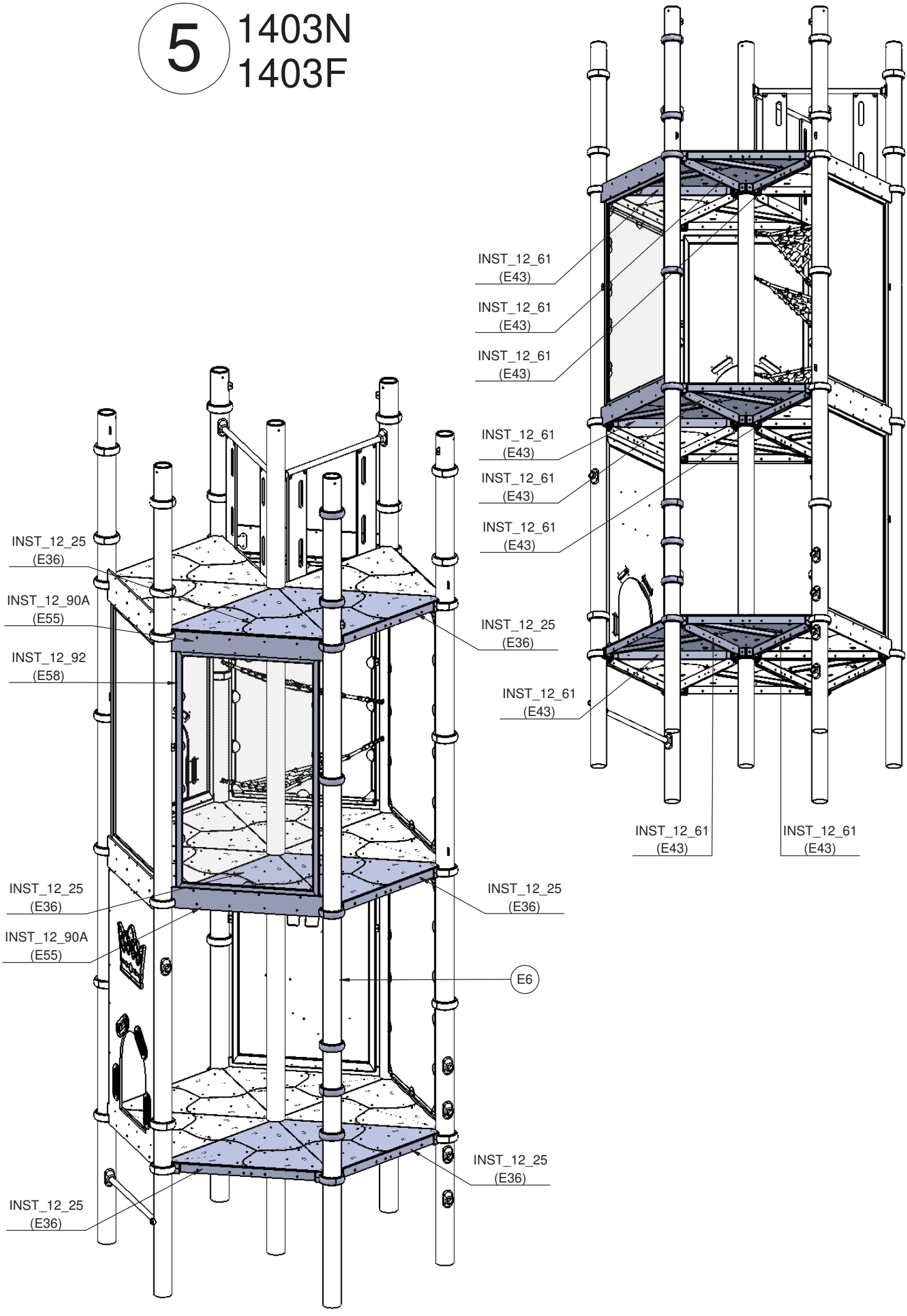


4 1403N 1403F

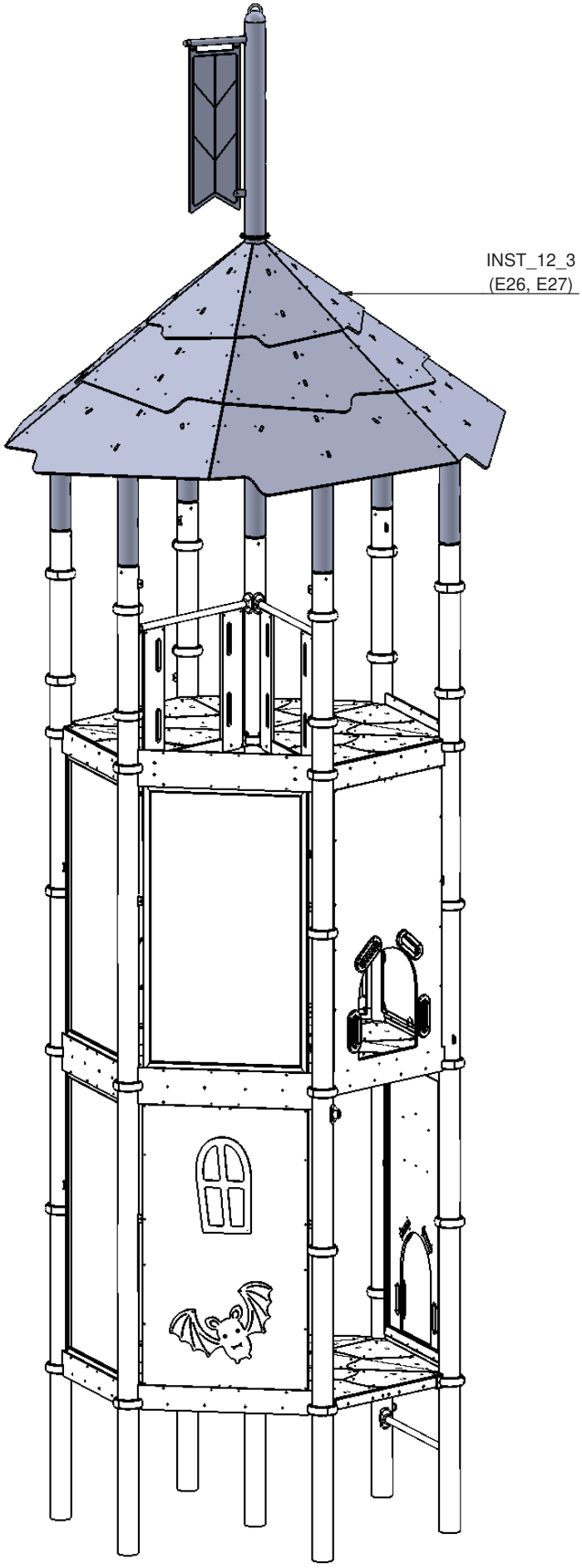




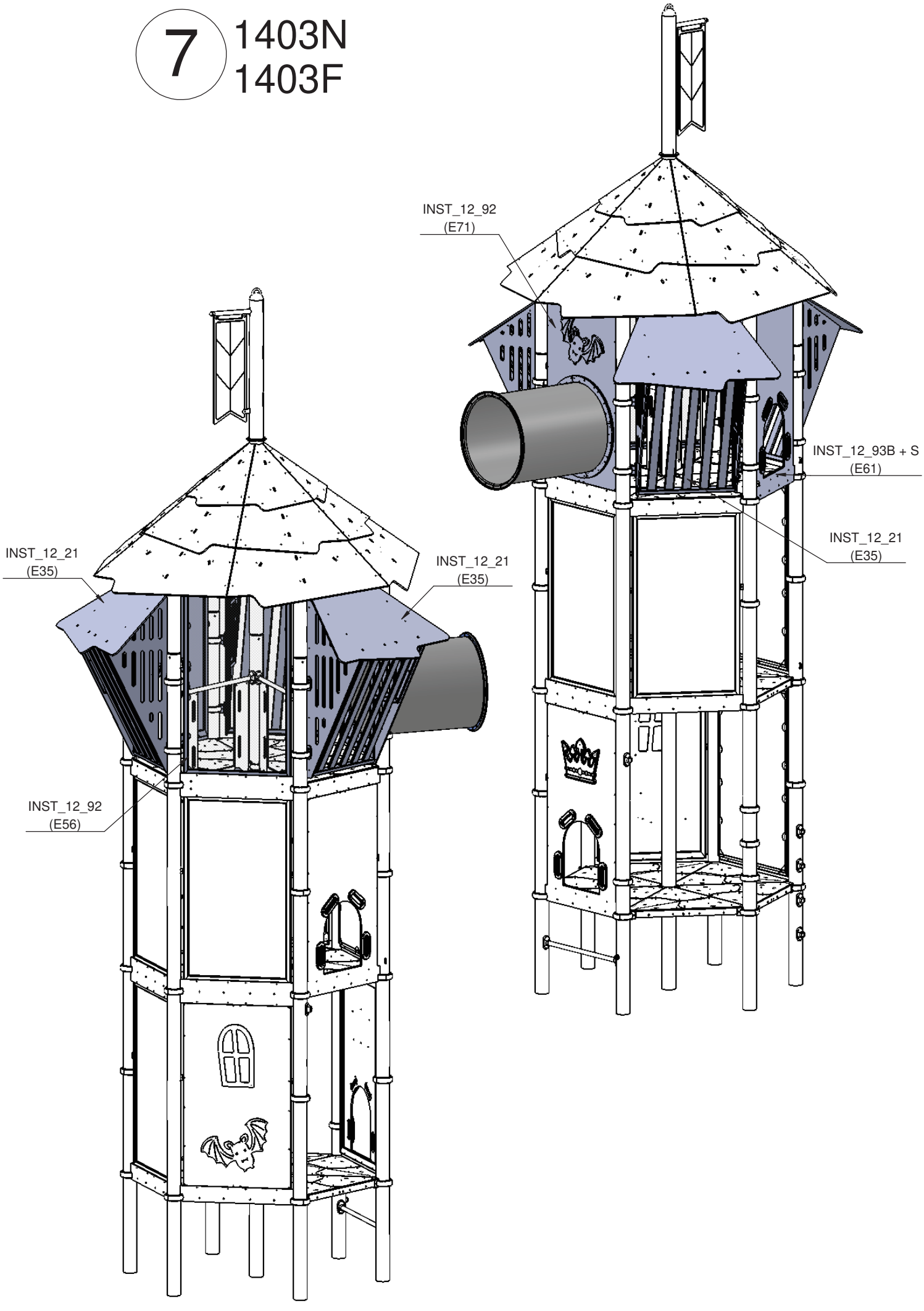
5 1403N 1403F



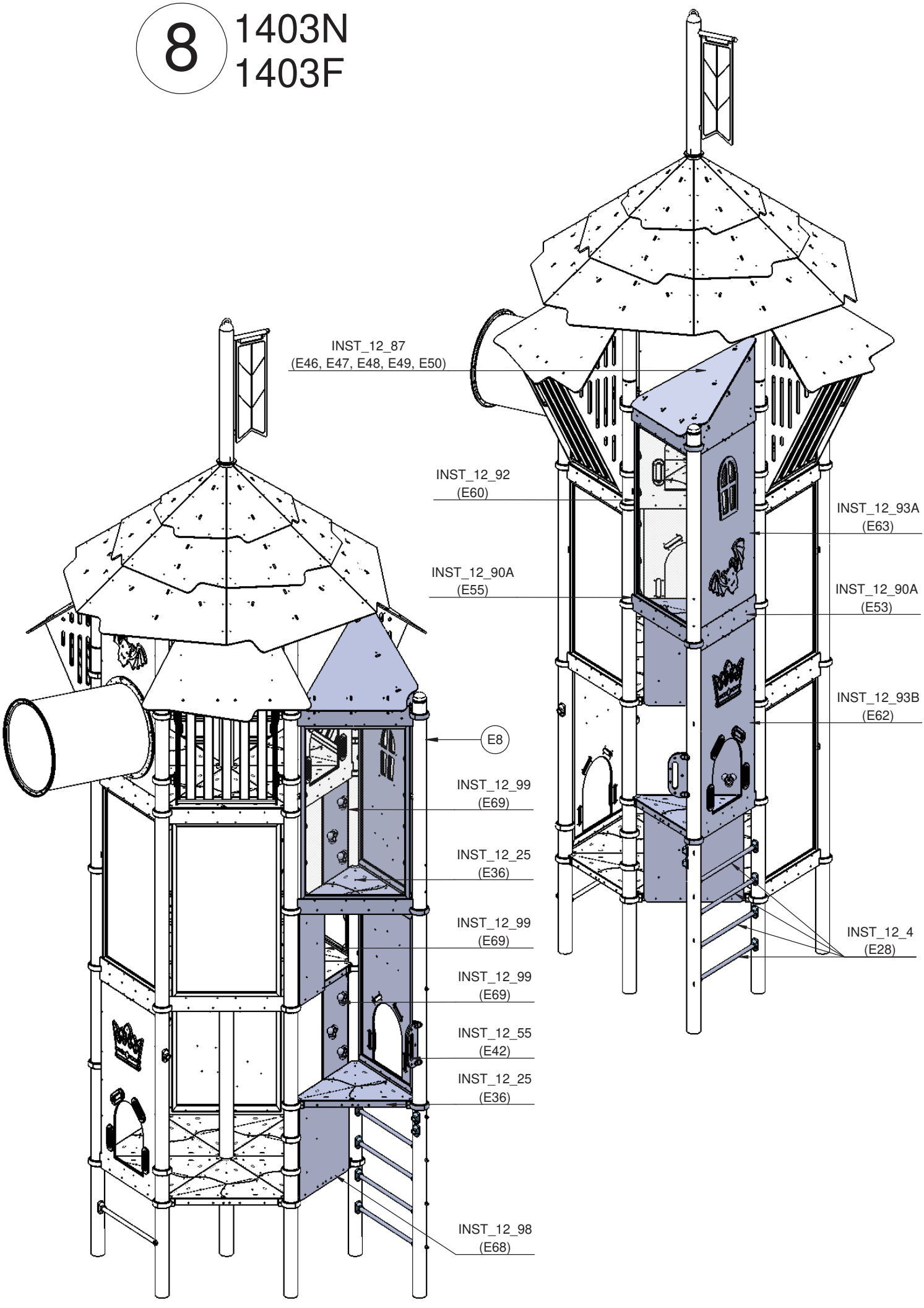
6 1403N 1403F



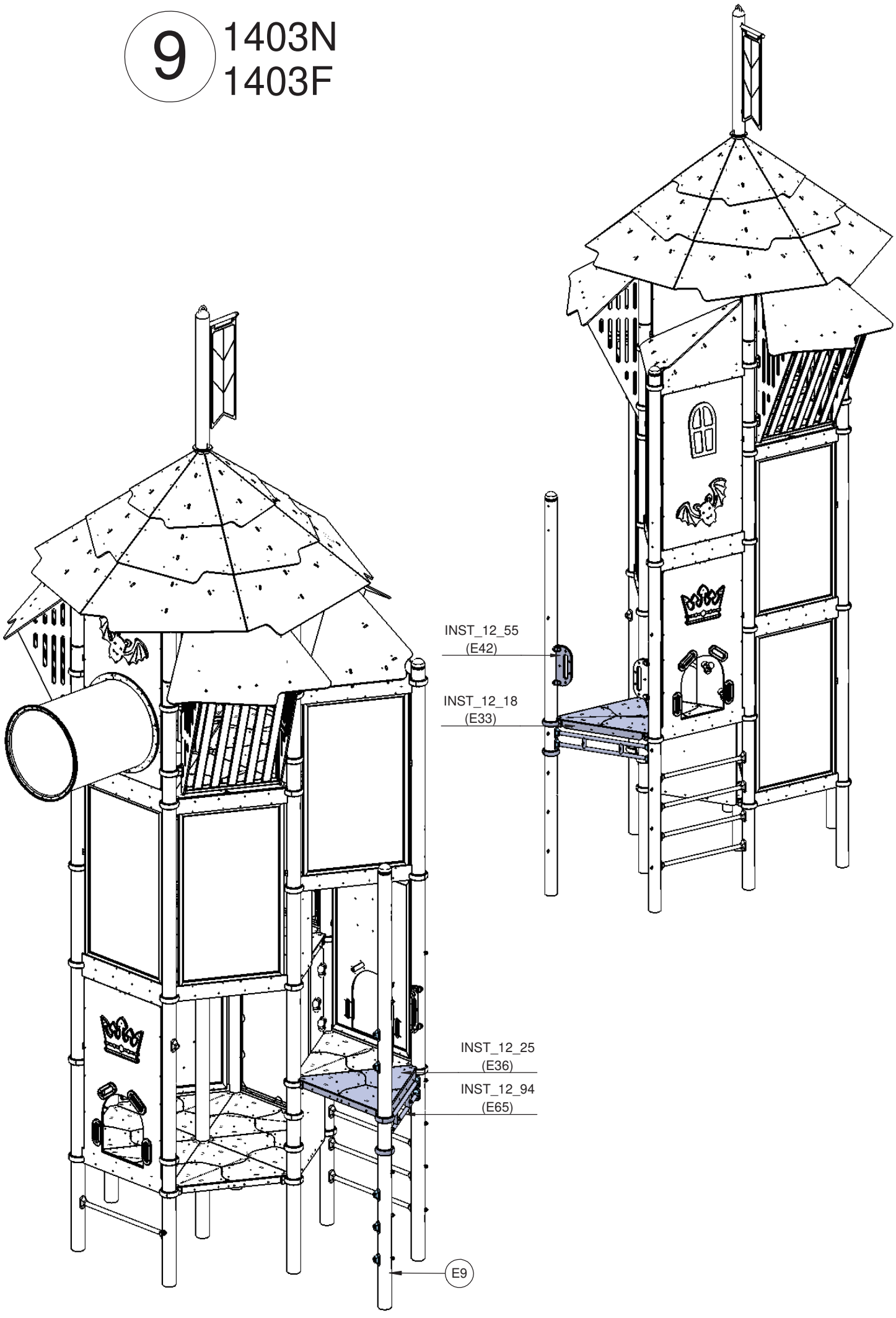
7 1403N 1403F



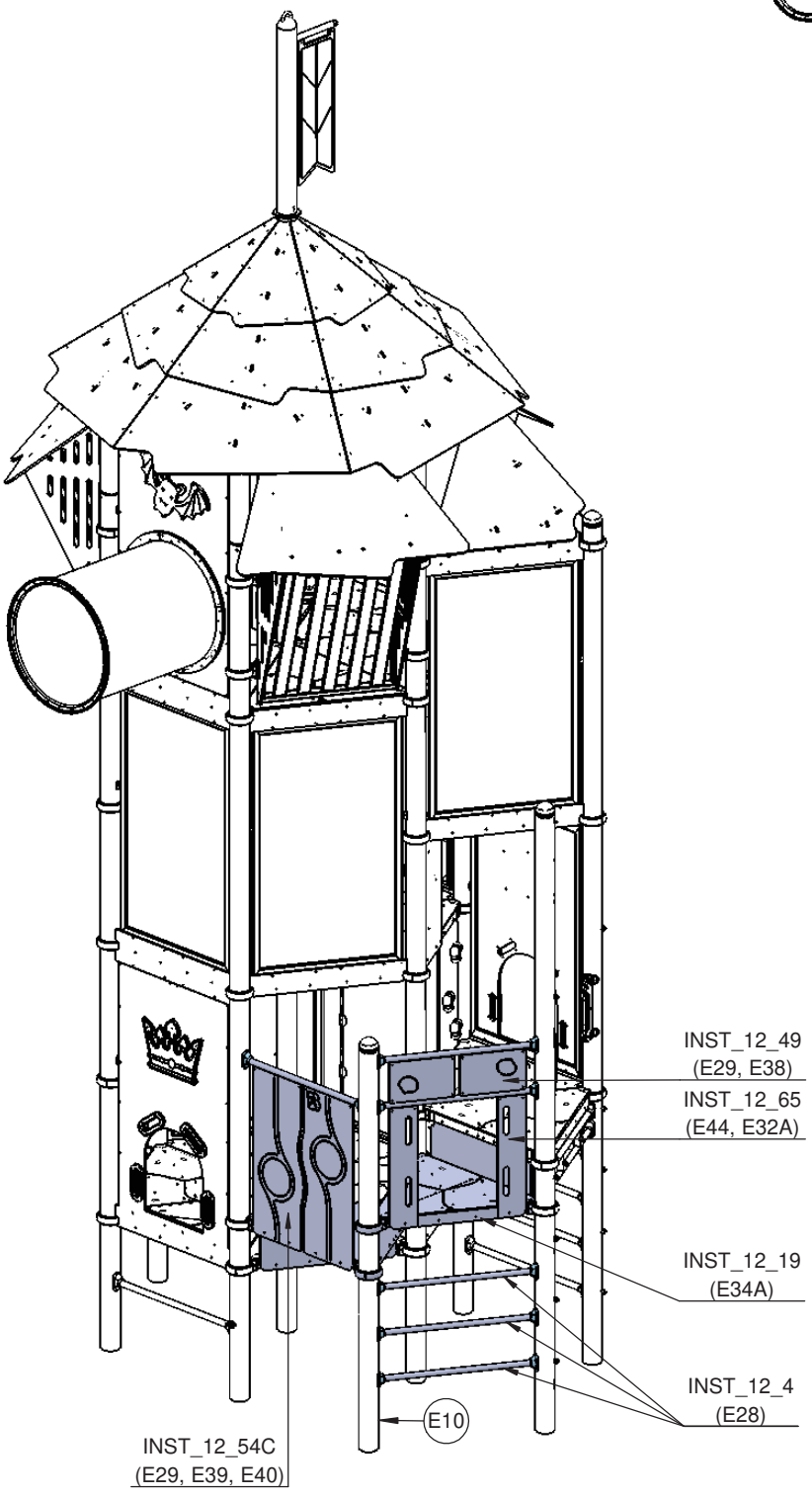
8 1403N 1403F

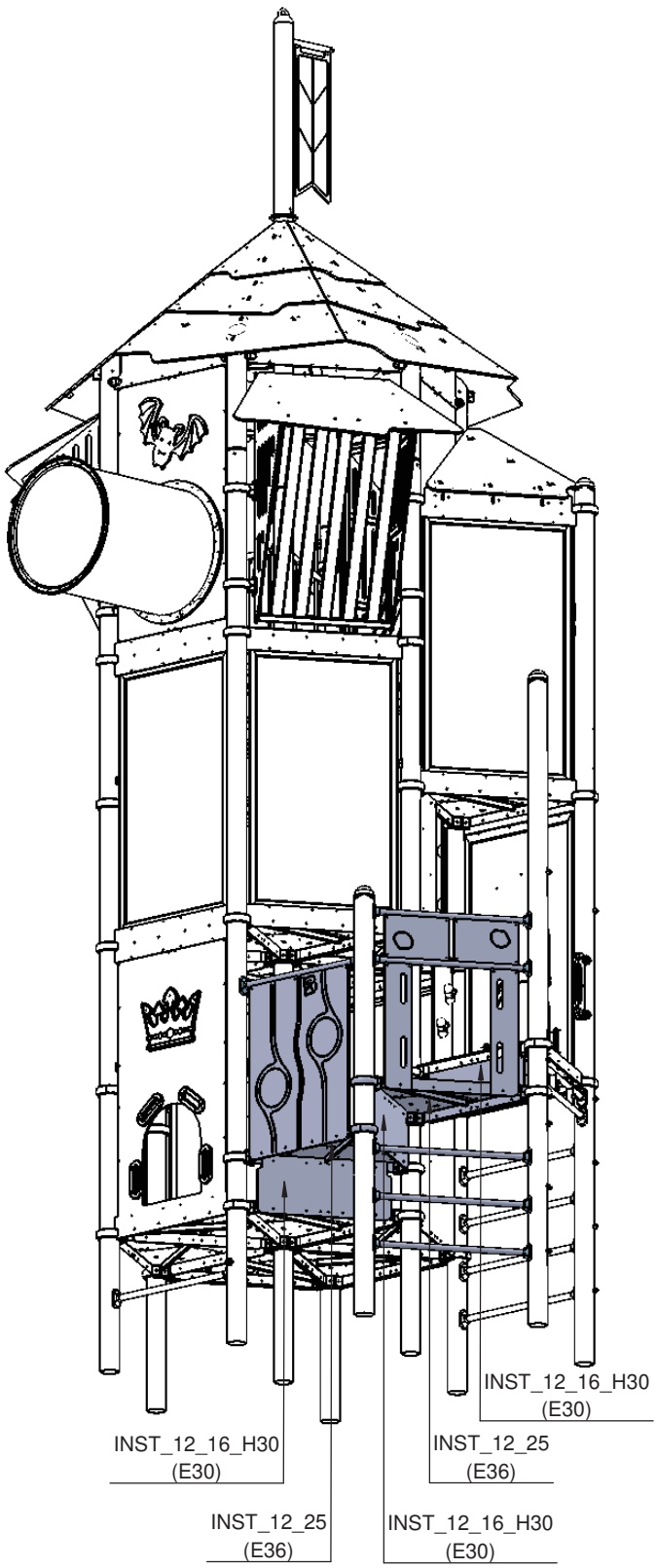


9 1403N 1403F

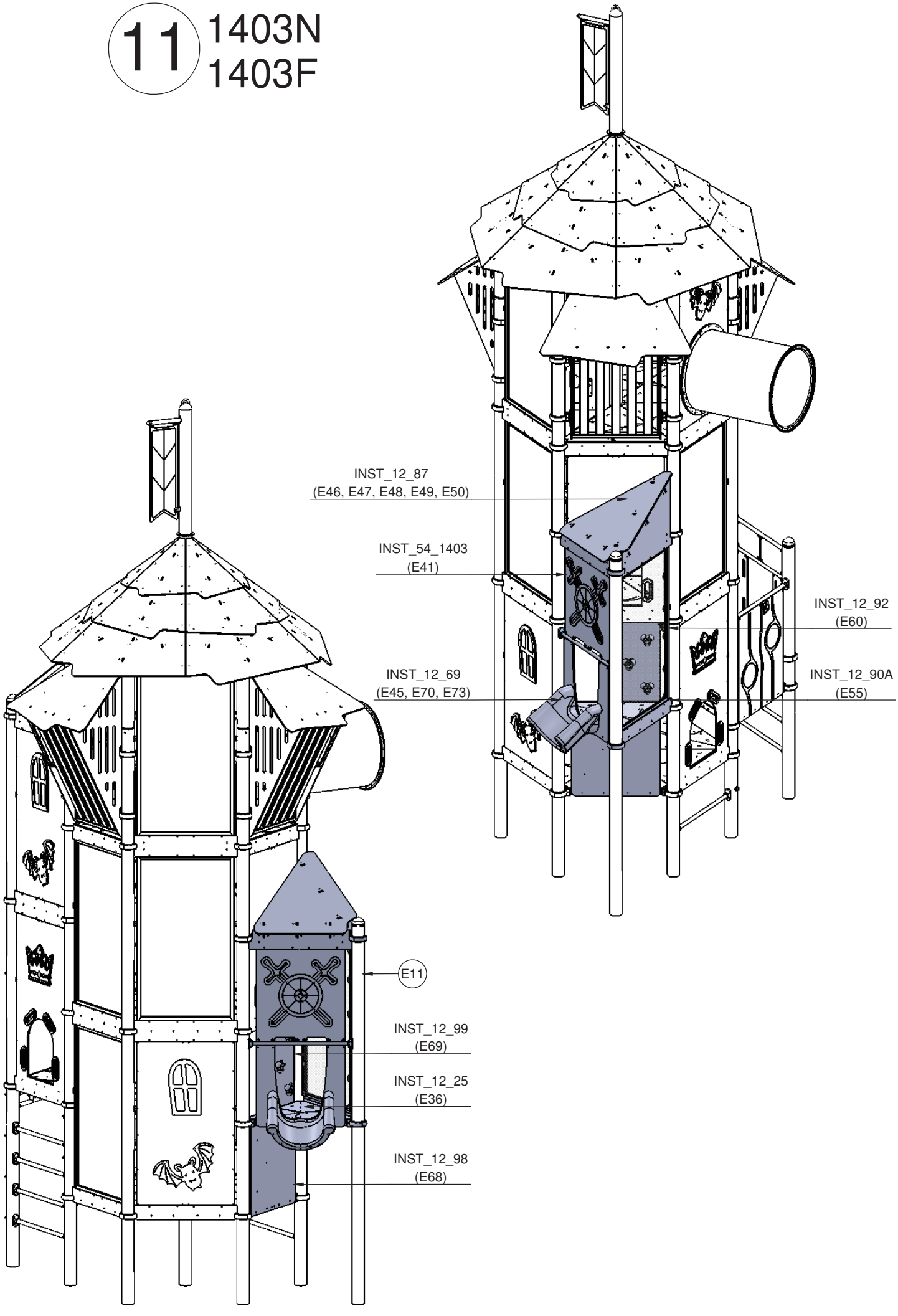


10 1403N 1403F

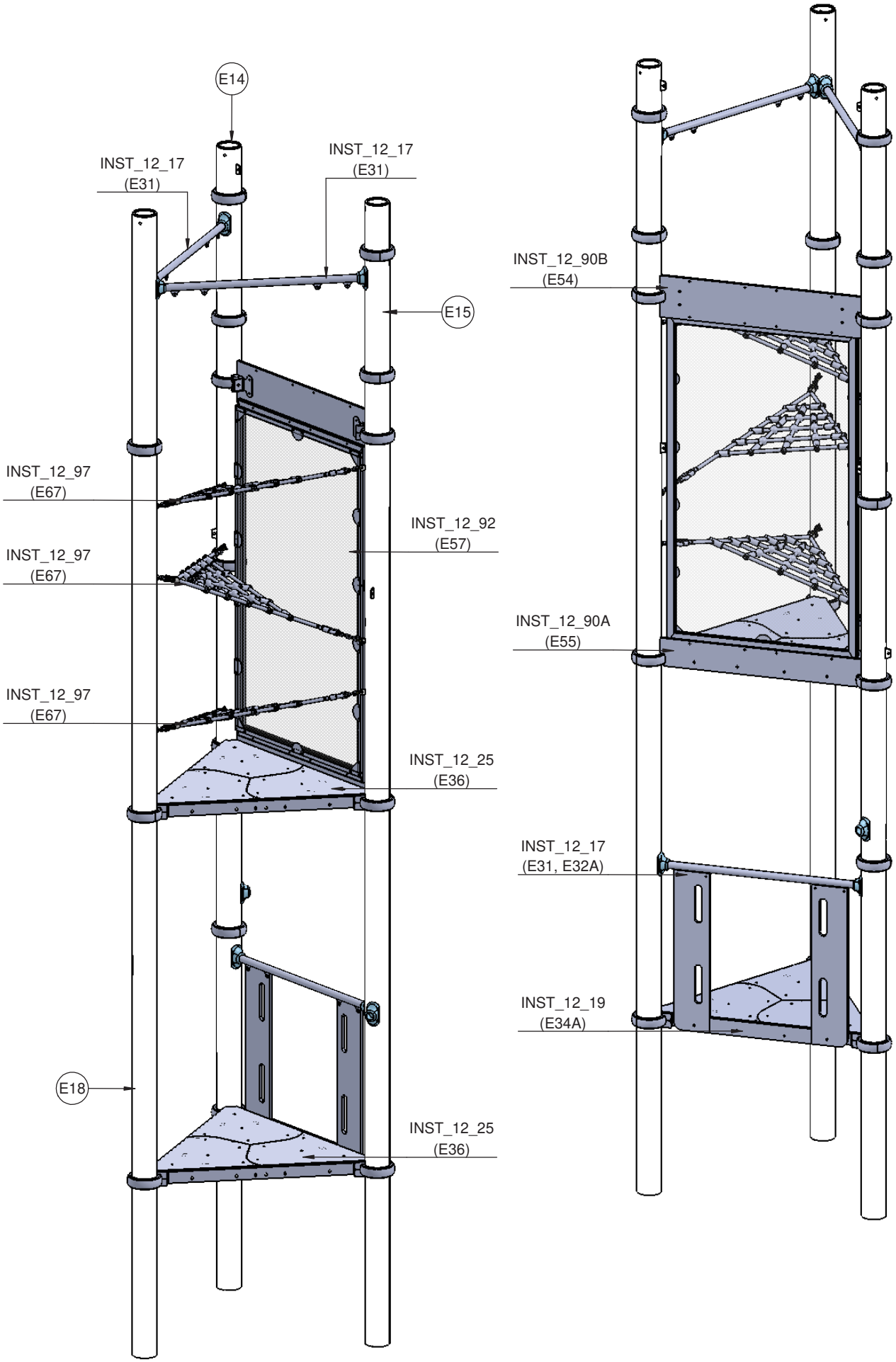




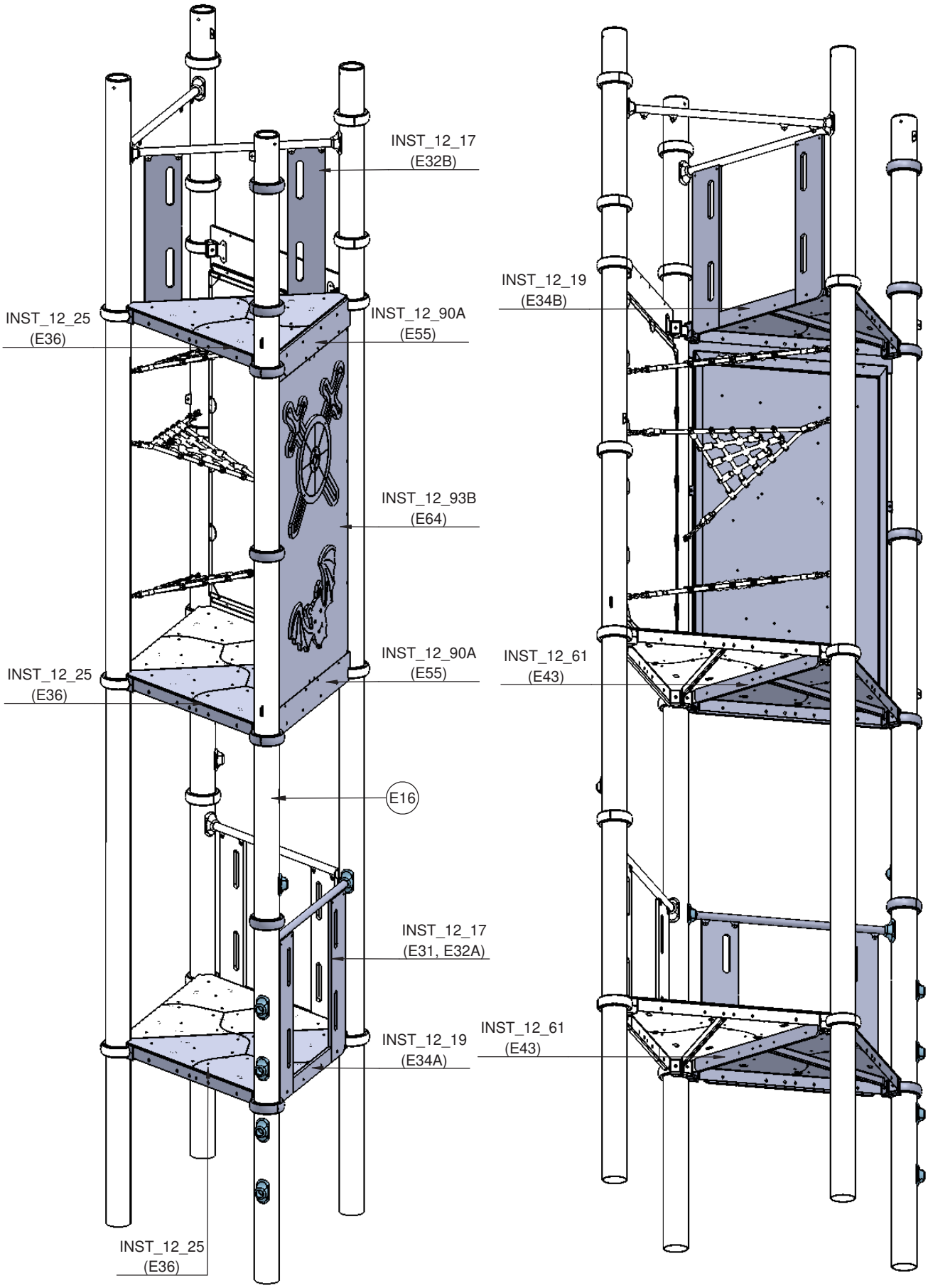
11 1403N 1403F



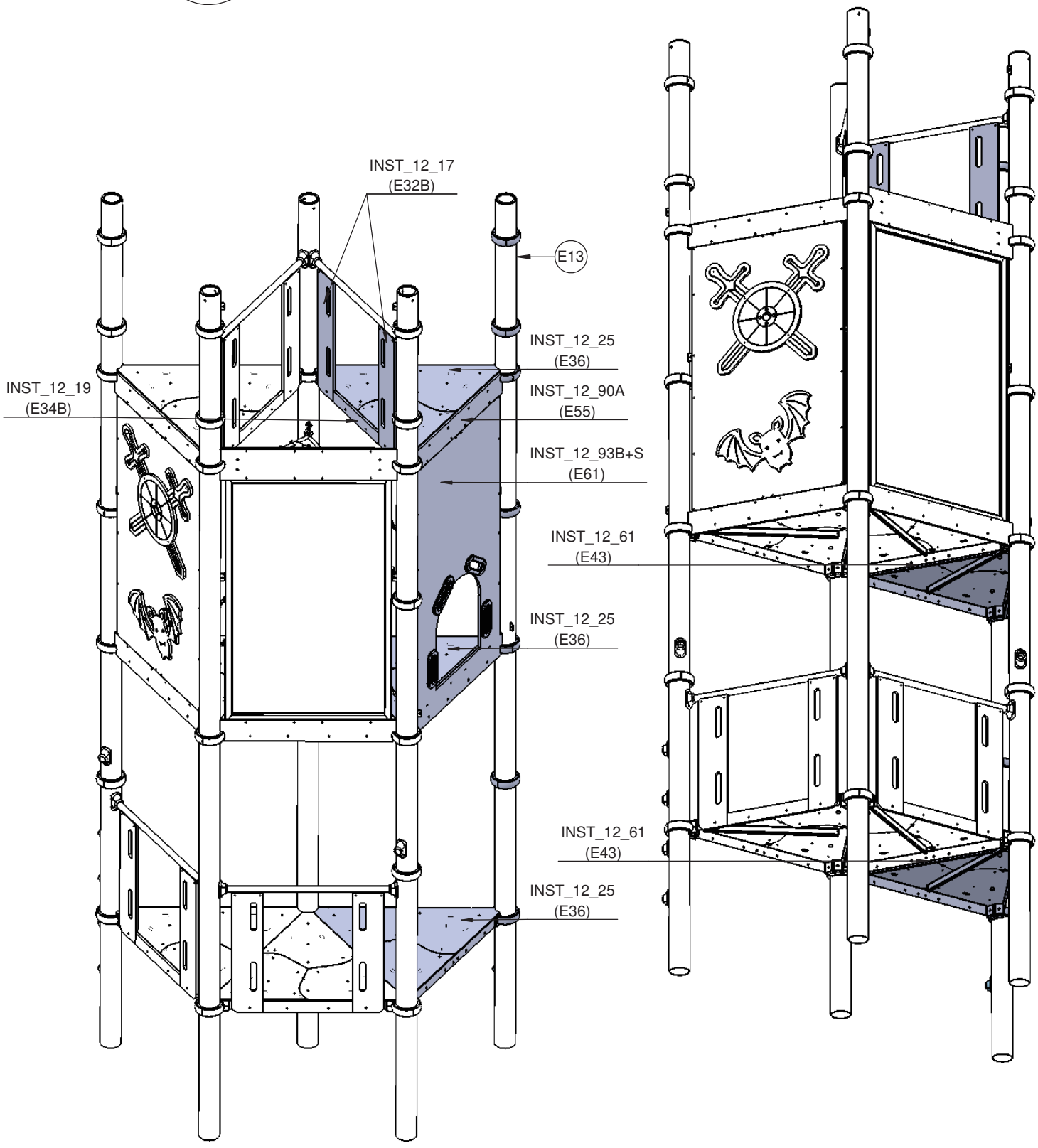
12 1403N 1403F



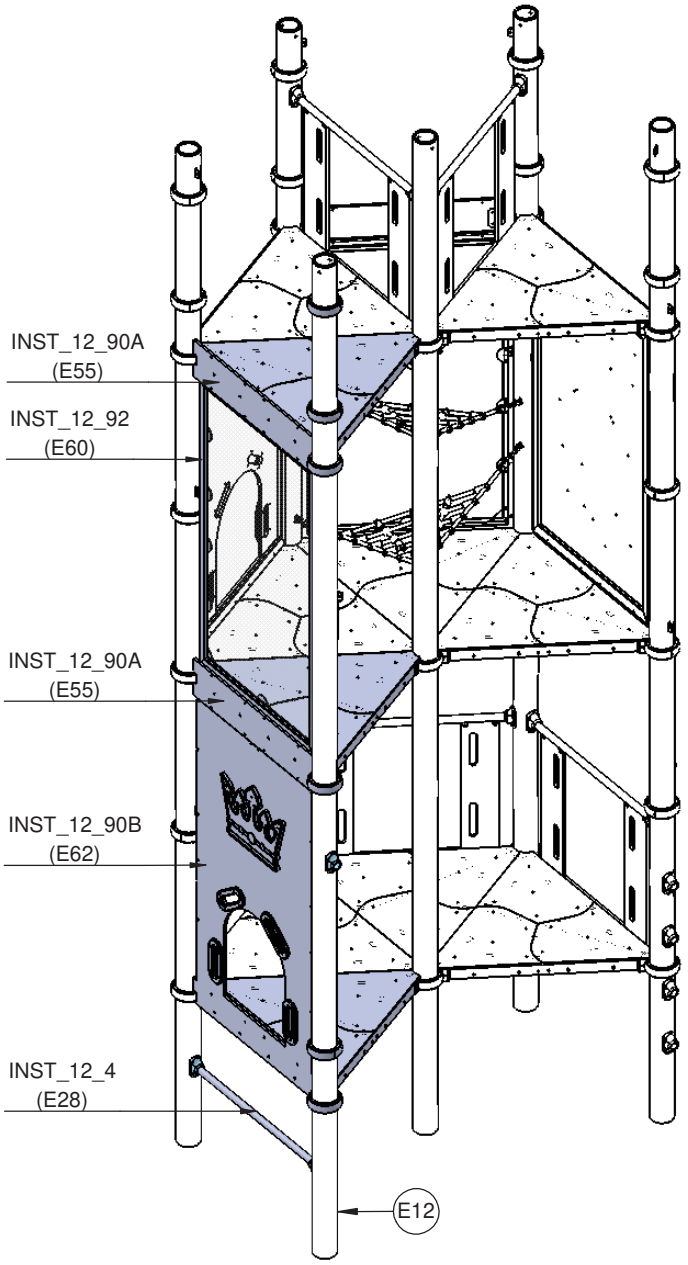
13 1403N 1403F

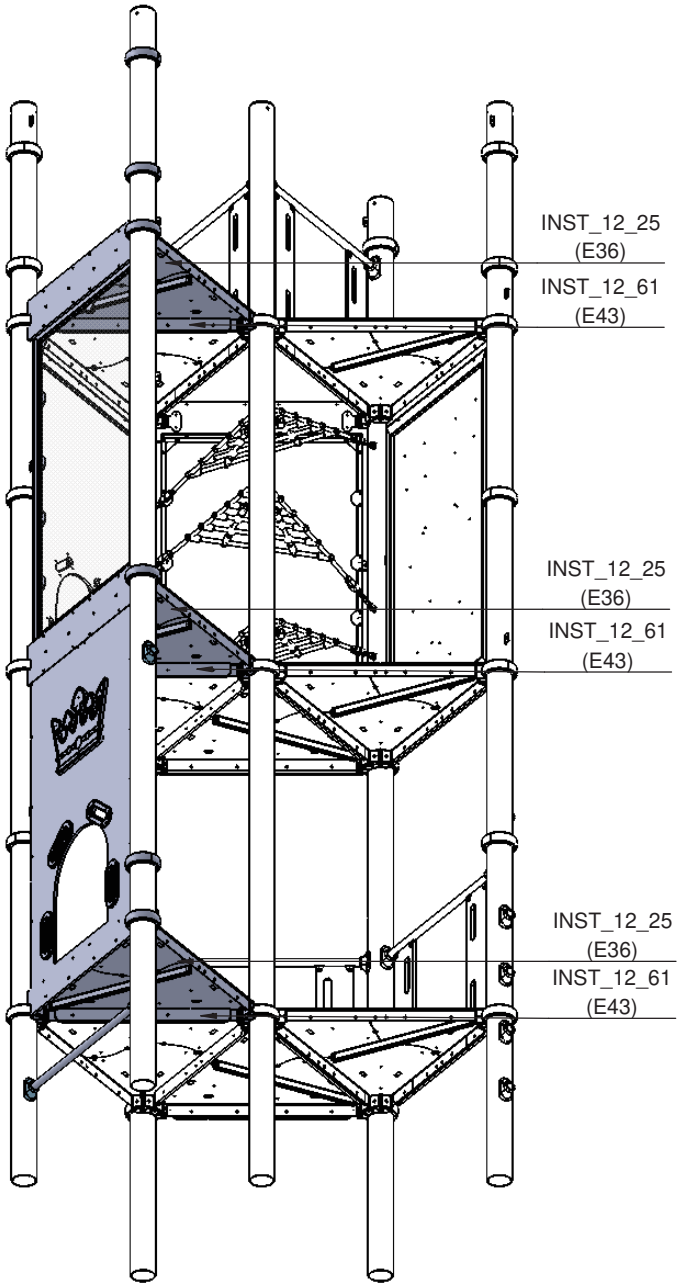


14 1403N 1403F

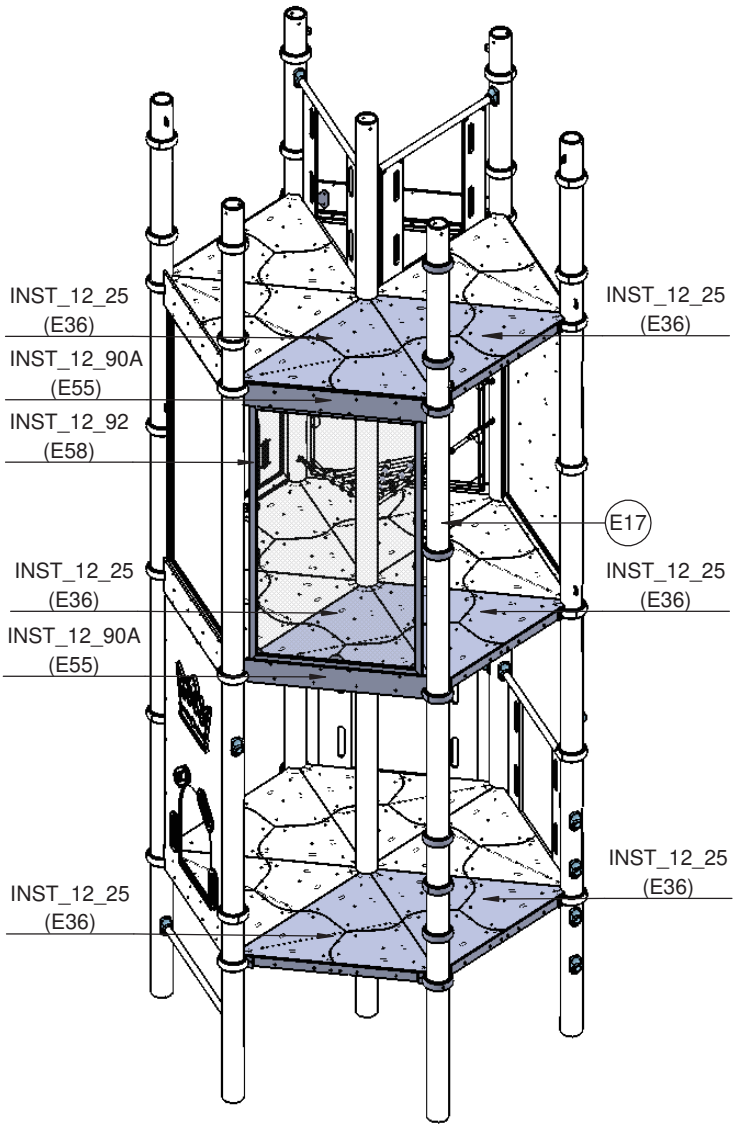


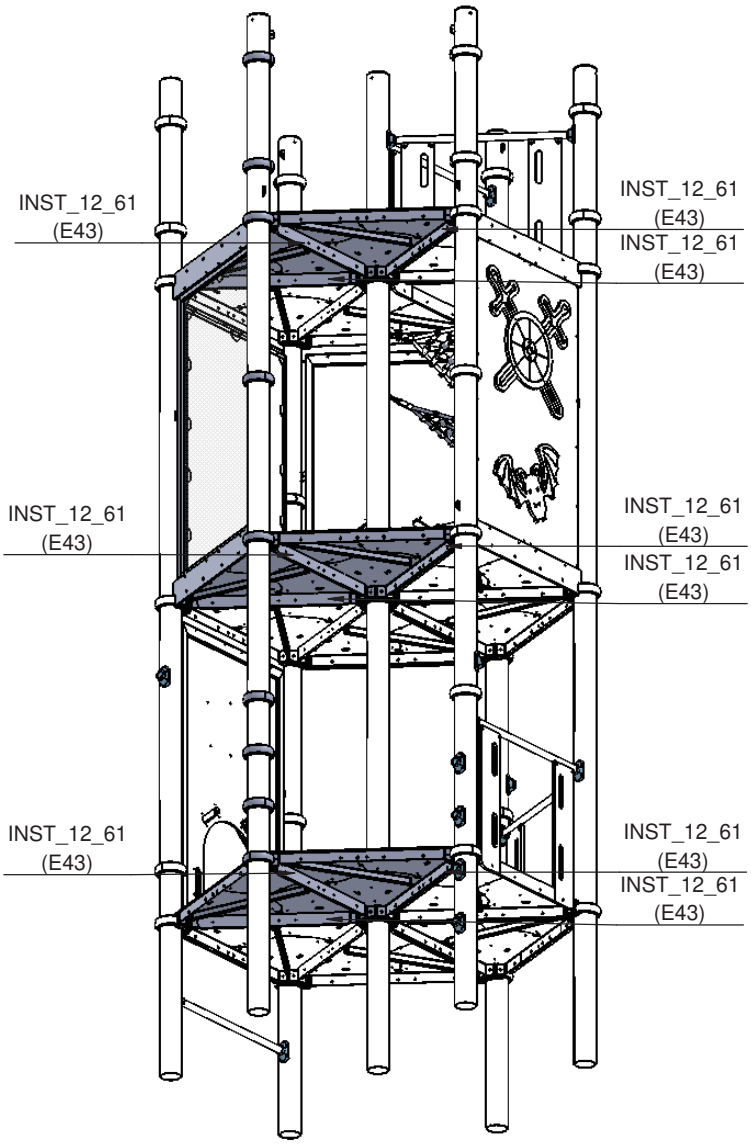
15 1403N 1403F



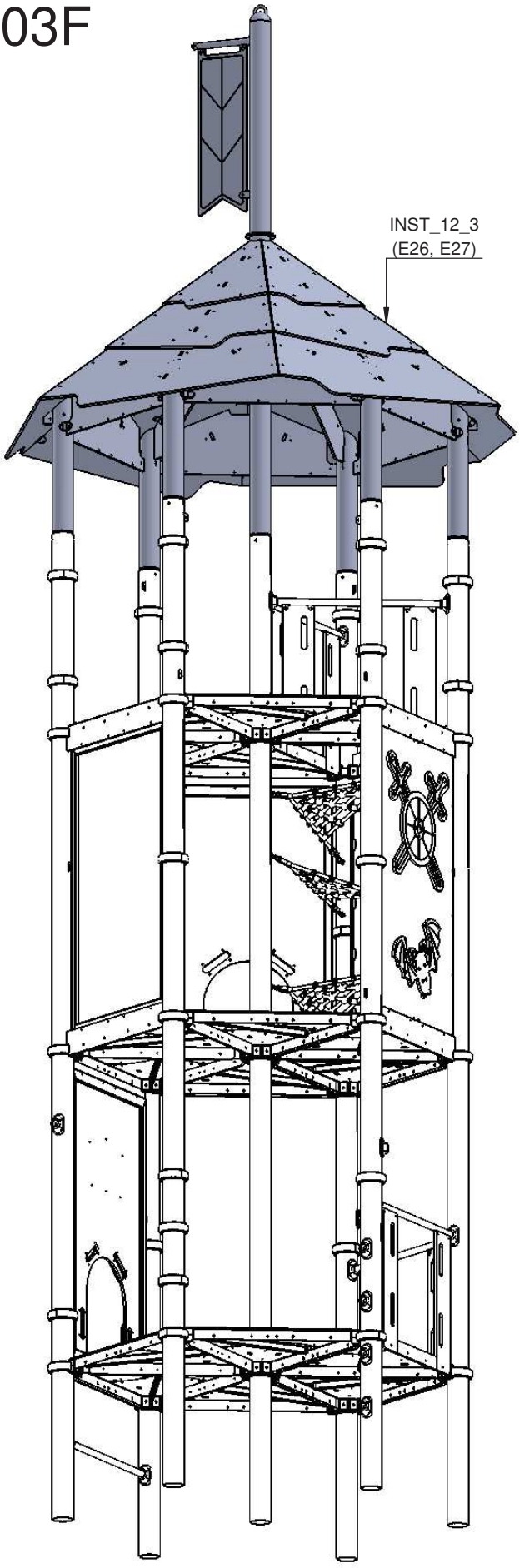


16 1403N 1403F

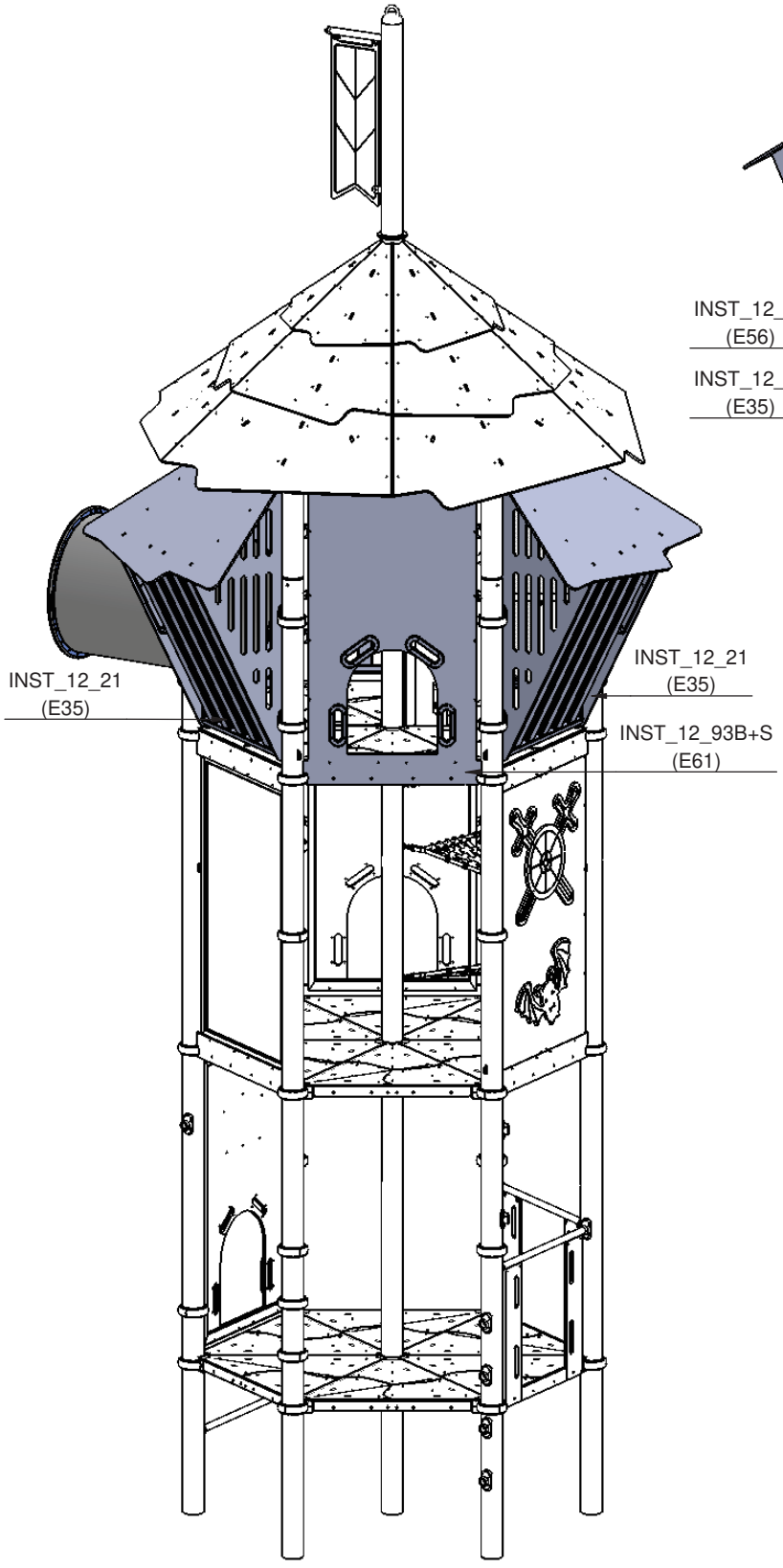


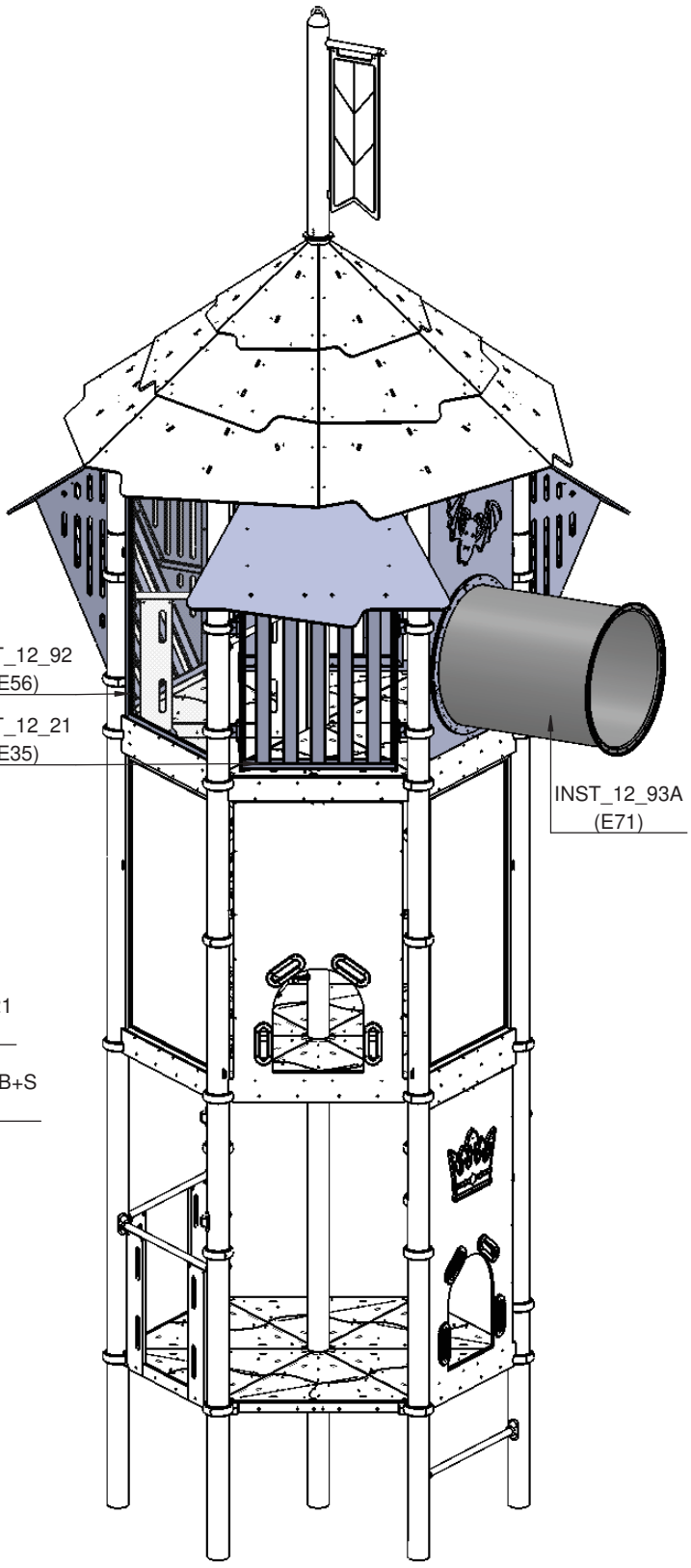


17 1403N
1403F

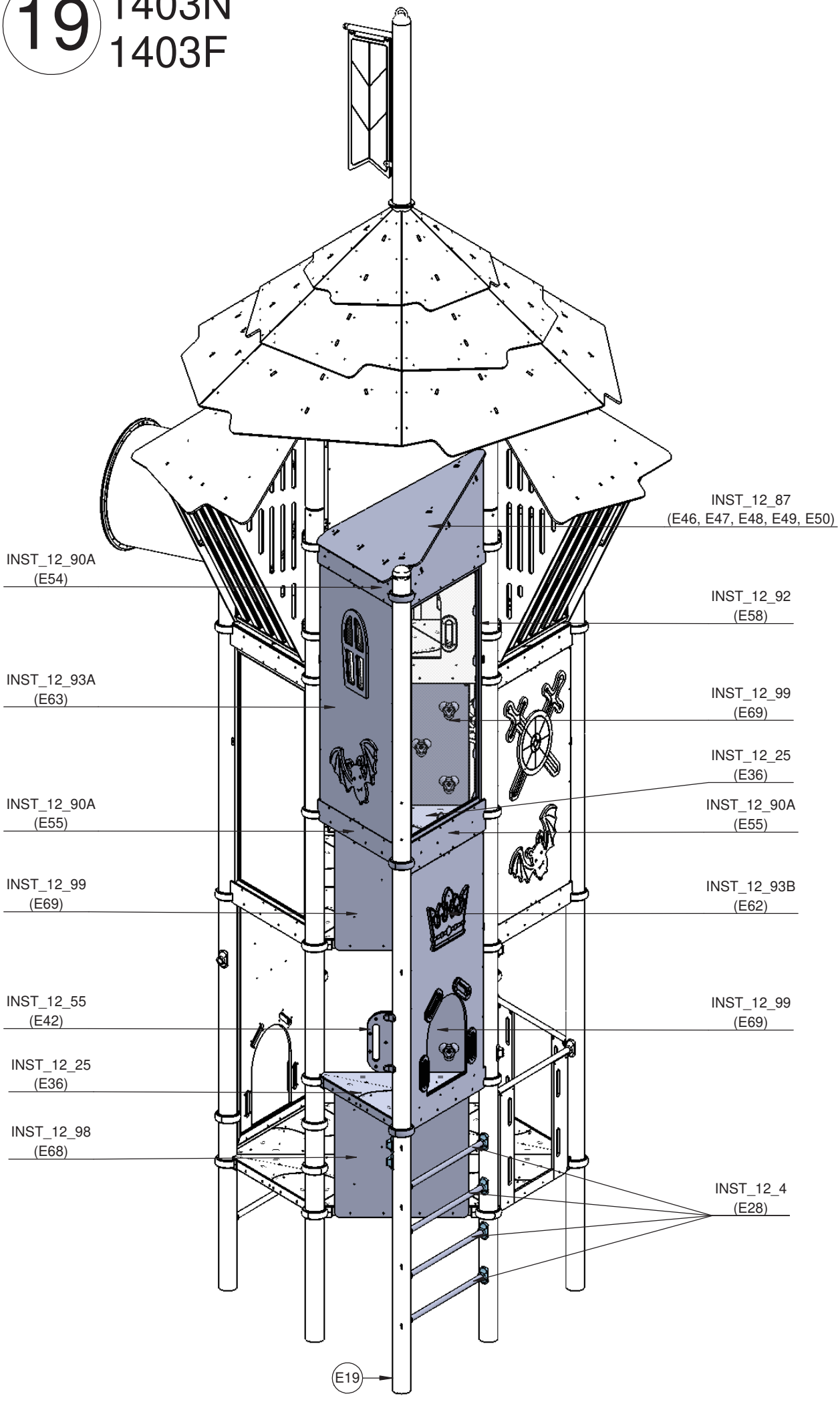


18 1403N 1403F

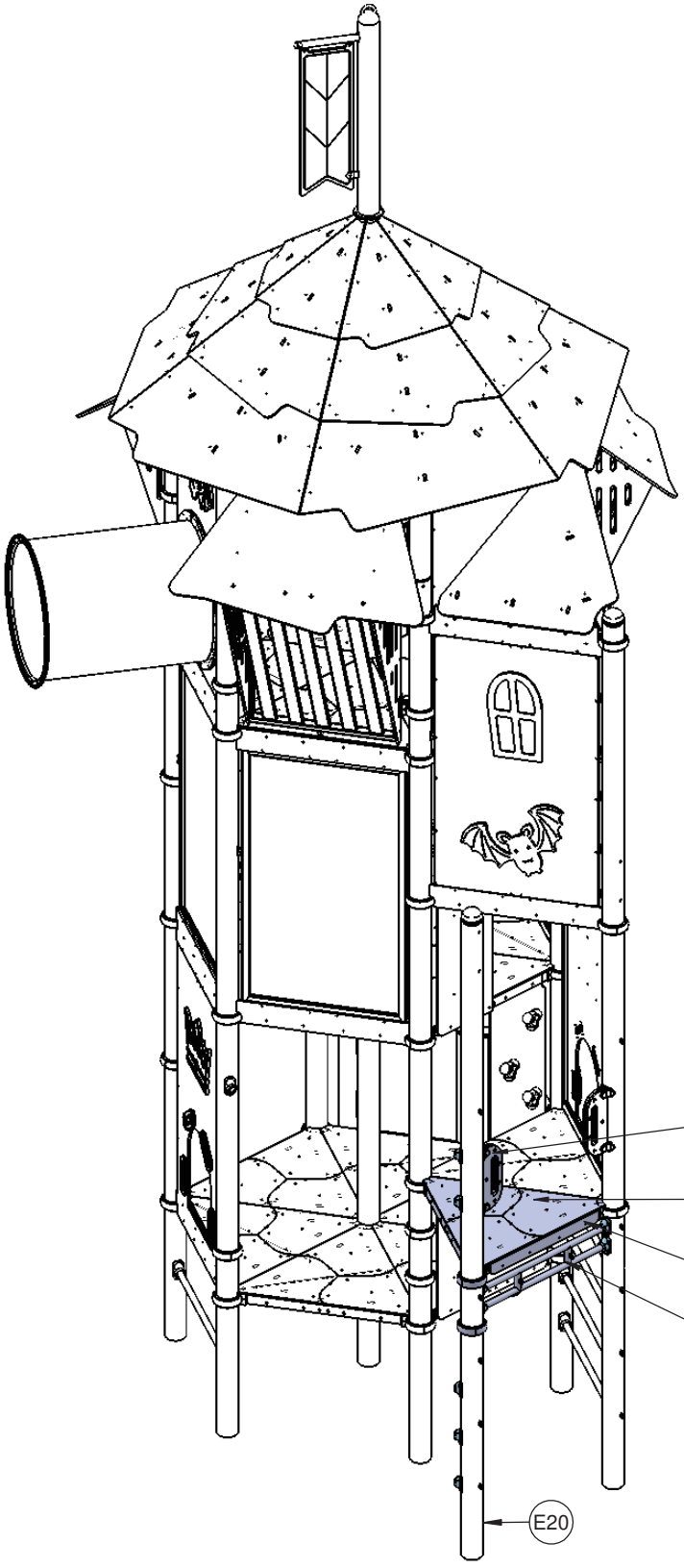


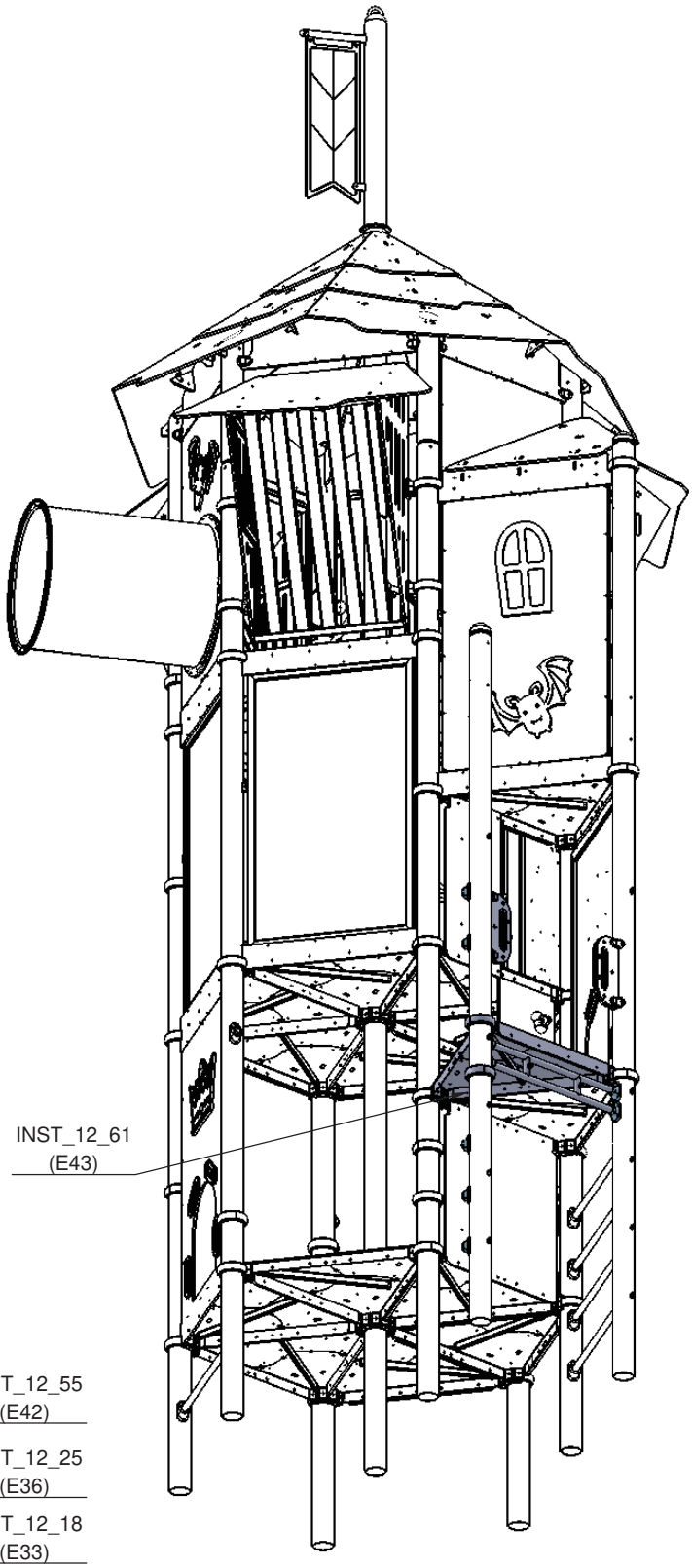


19 1403N 1403F

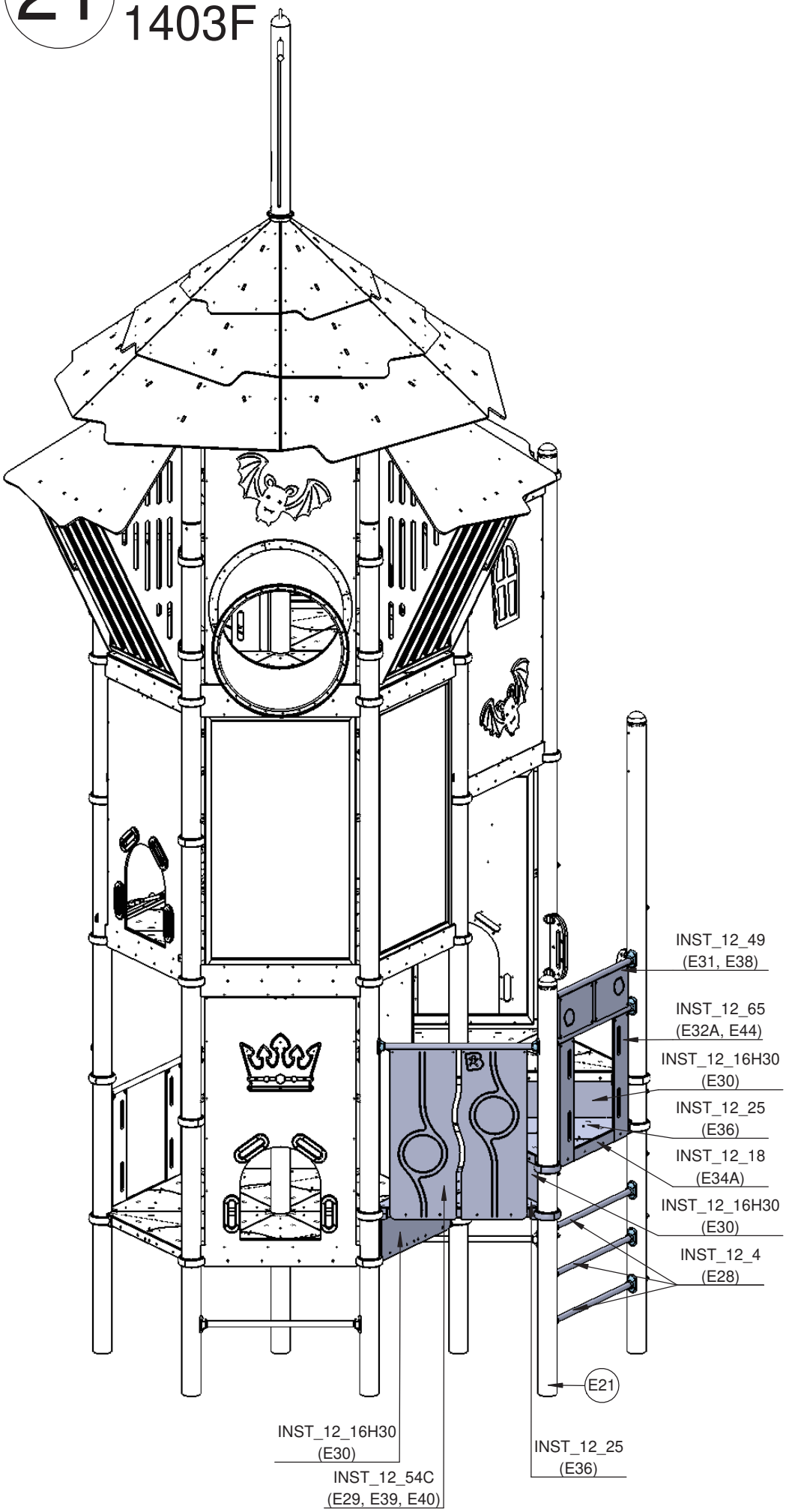


20 1403N 1403F

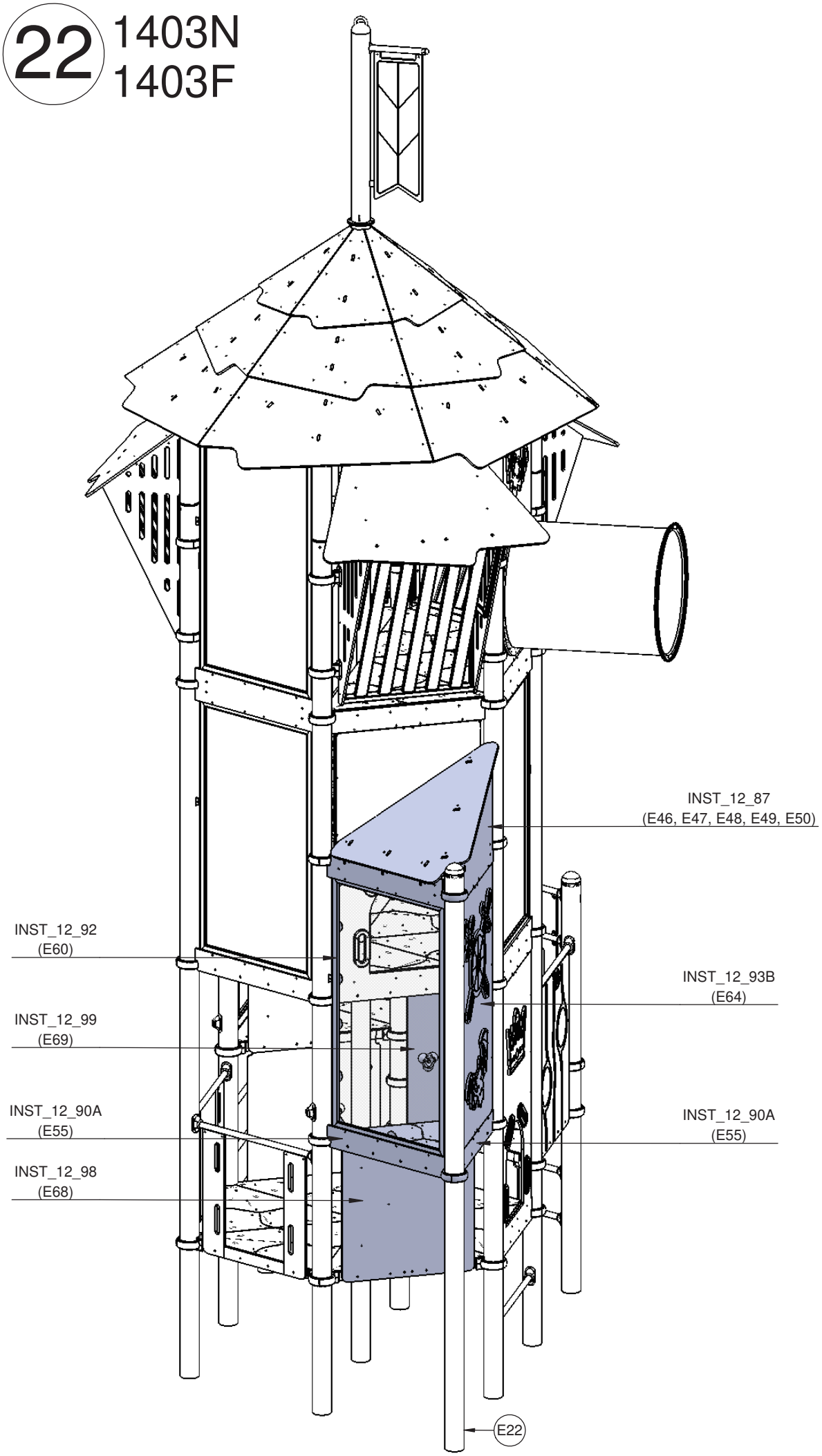




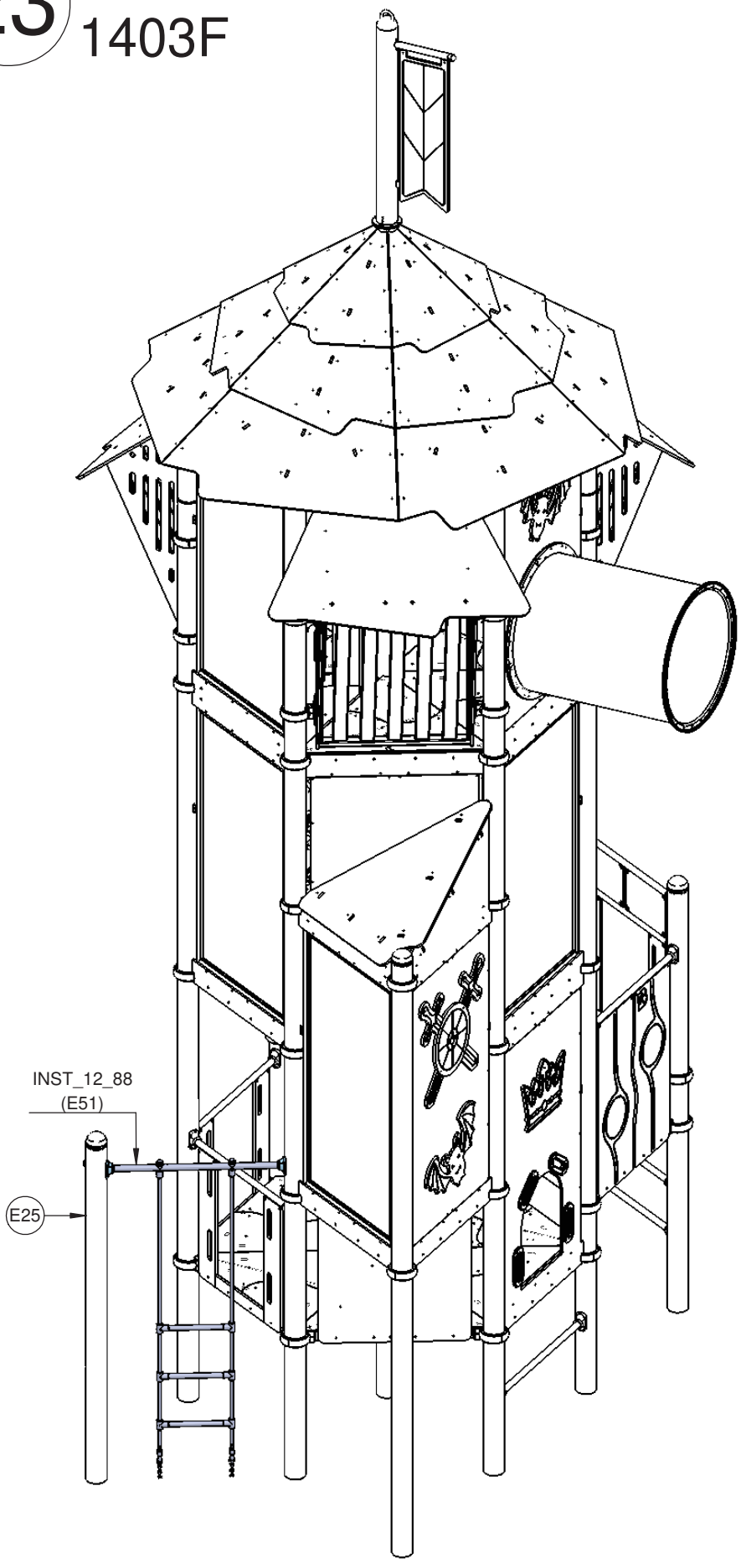
21 1403N 1403F



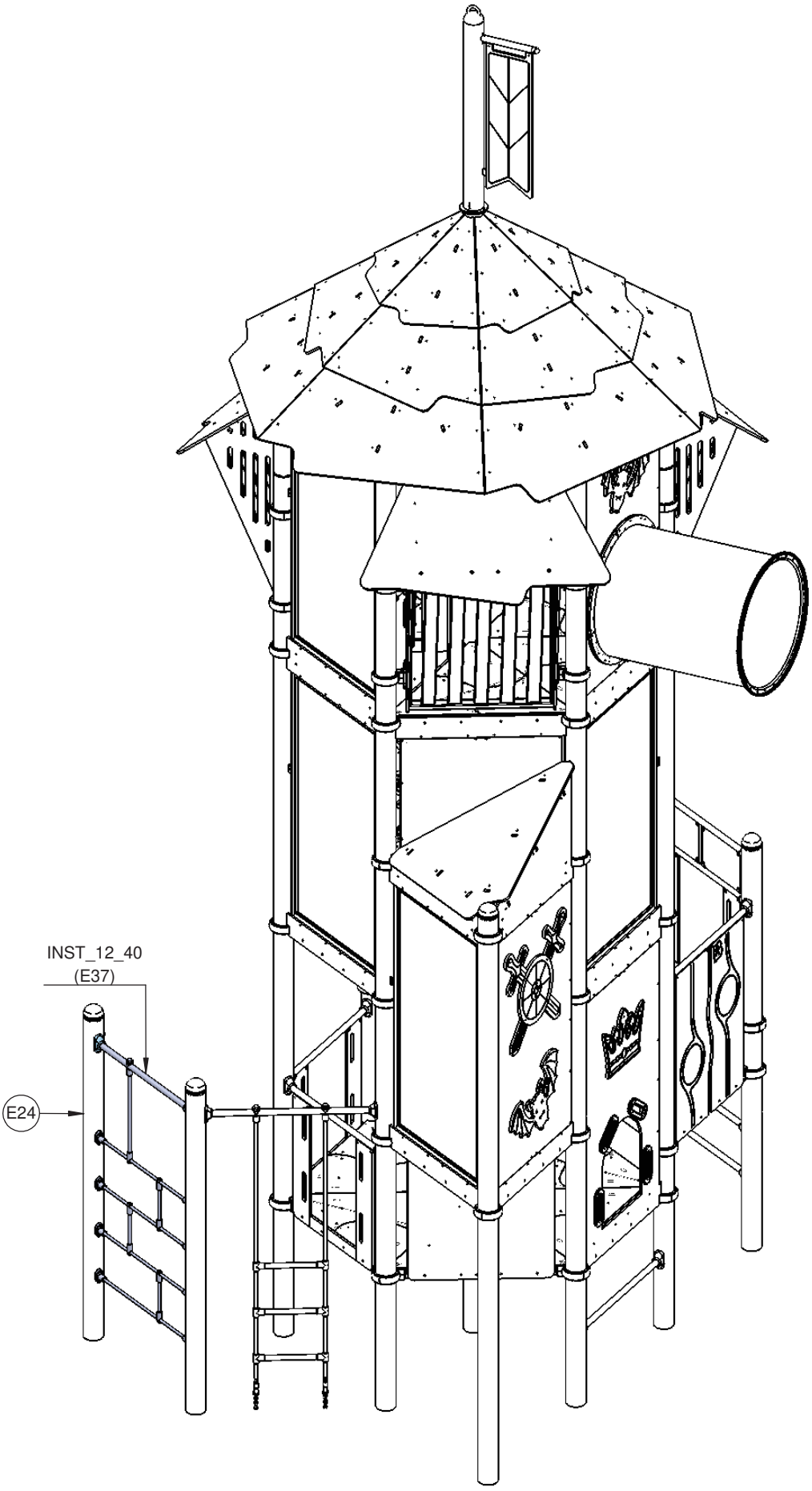
22 1403N 1403F



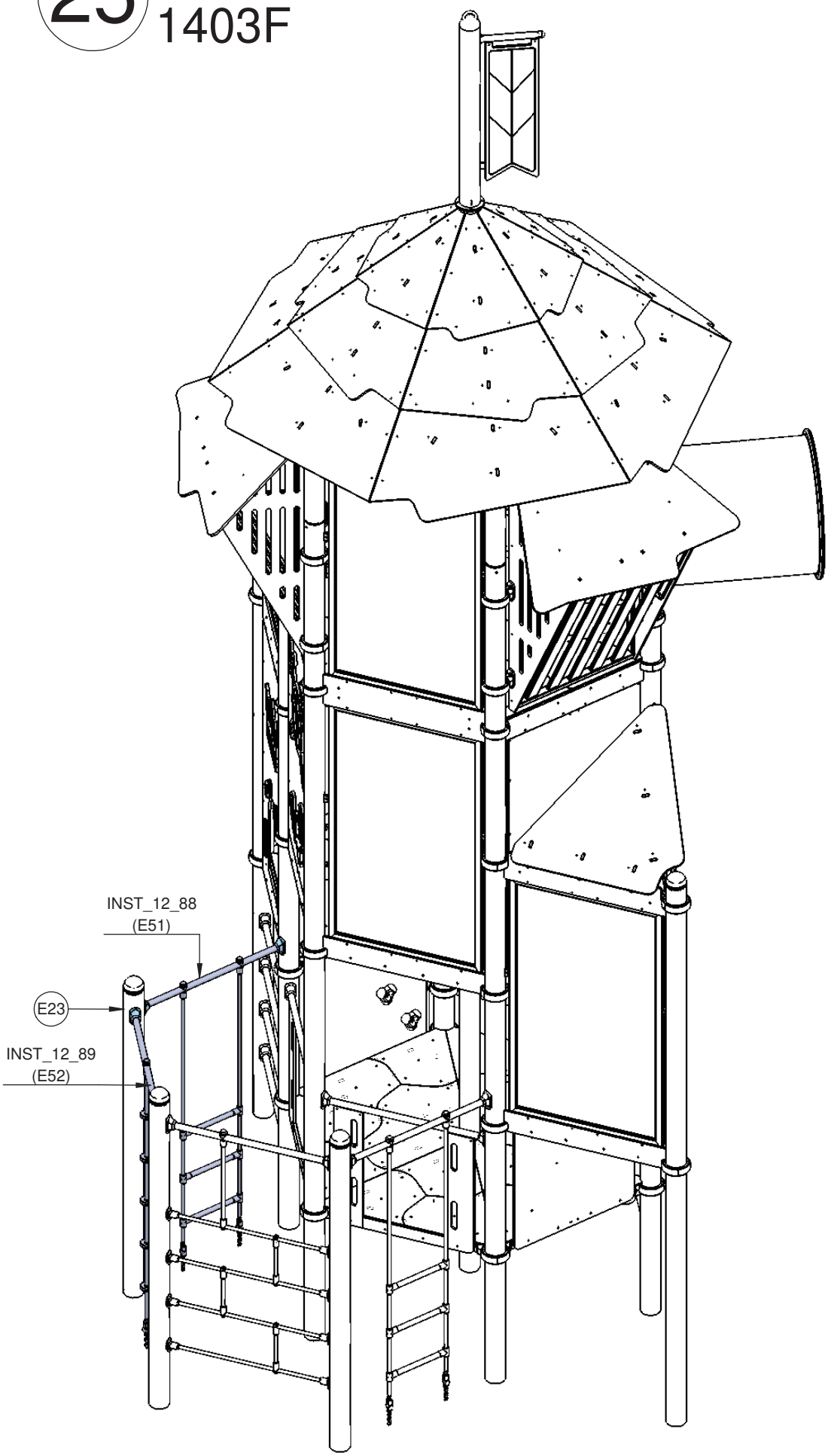
23 1403N 1403F



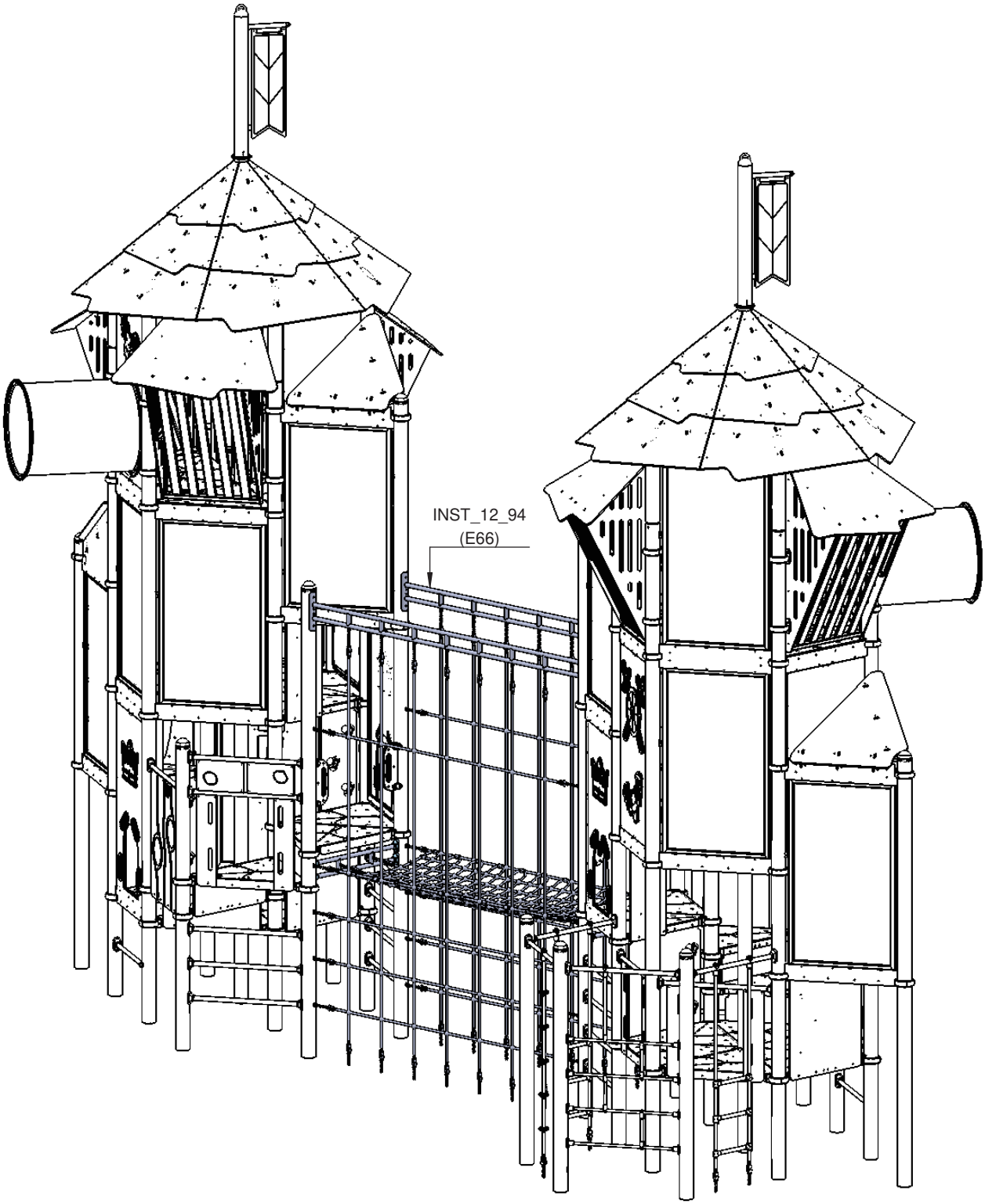
24 1403N 1403F



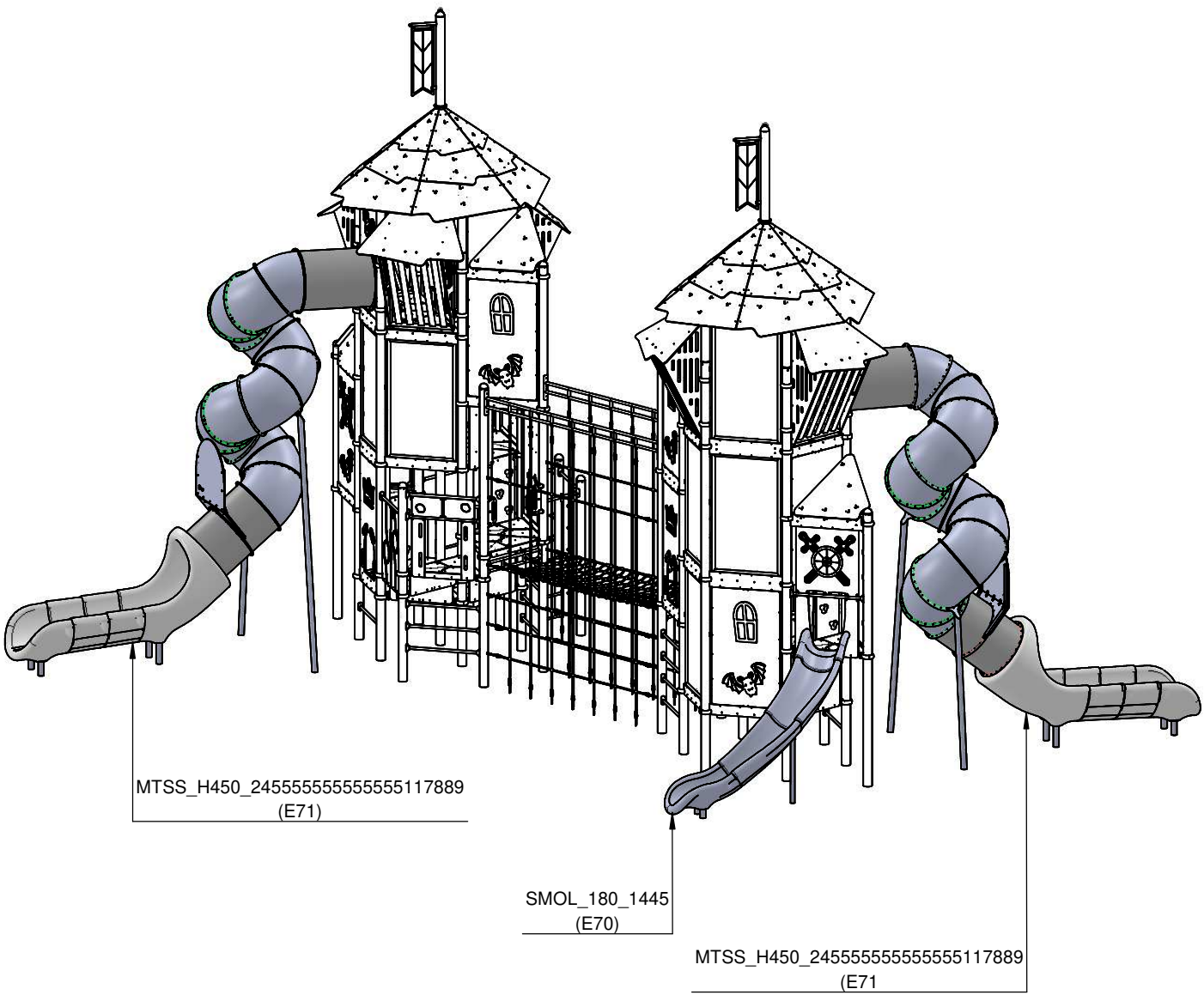
25 1403N 1403F



26 1403N 1403F

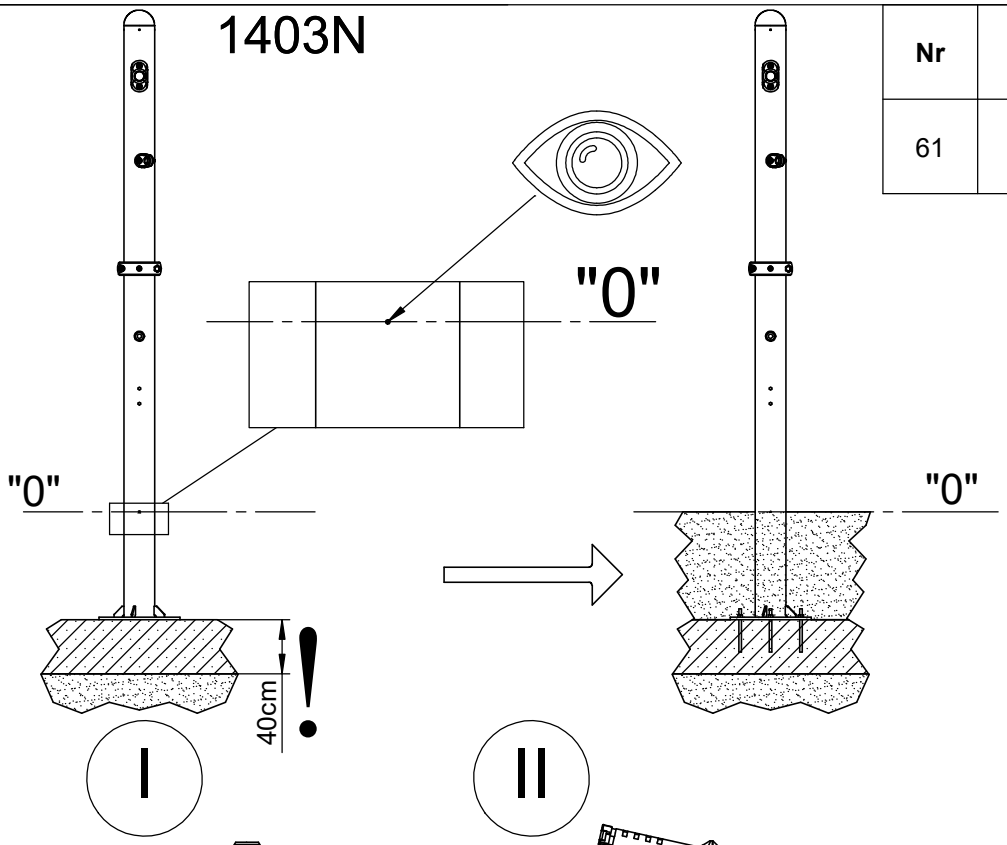


27 1403N 1403F



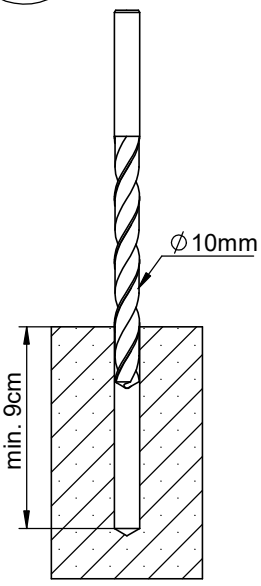
1403N

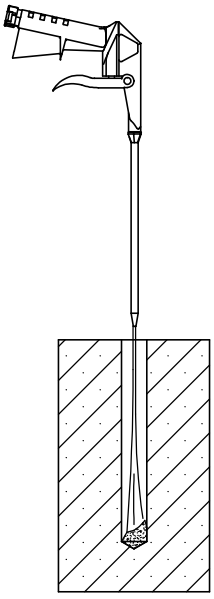
Nr	Element		
61		-	KL105

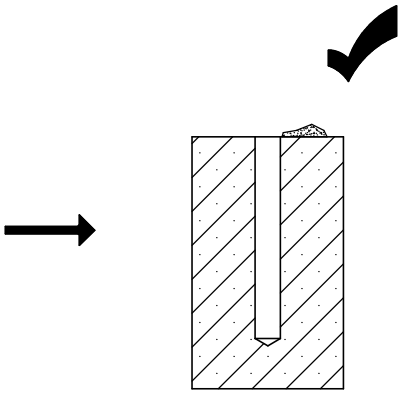


I

II





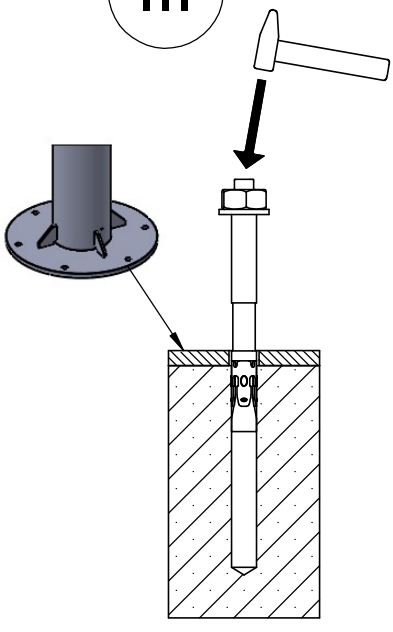


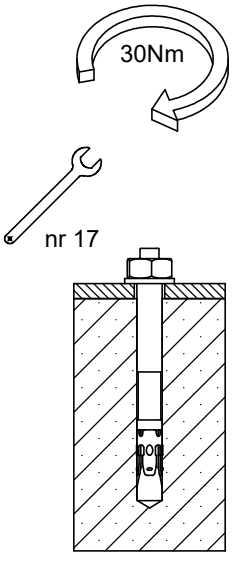
III

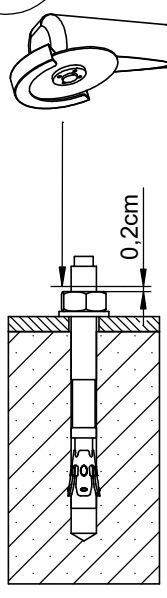
IV

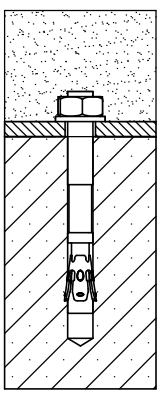
V

VI



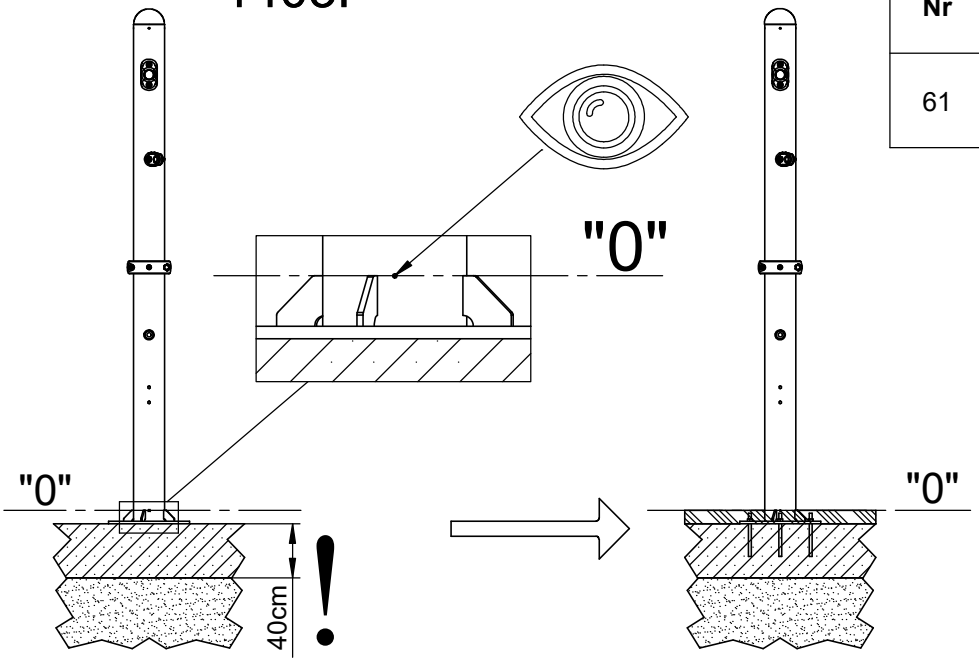


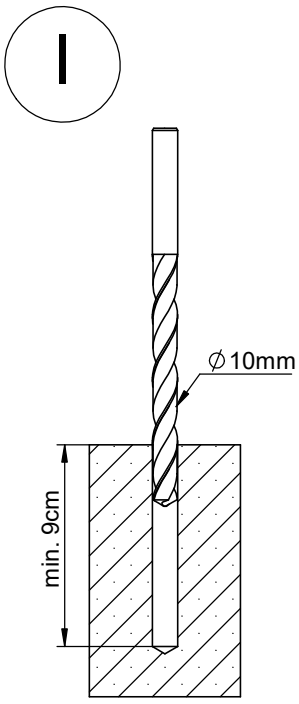


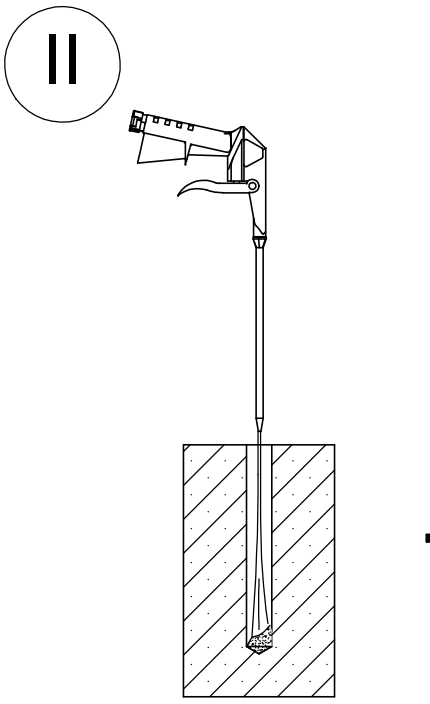


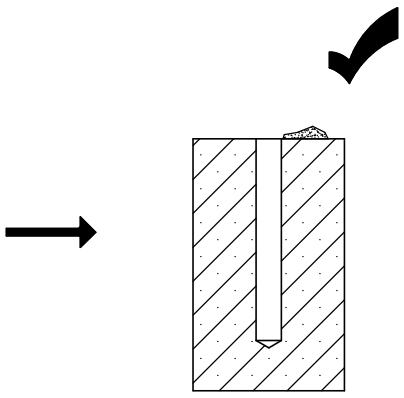
1403F

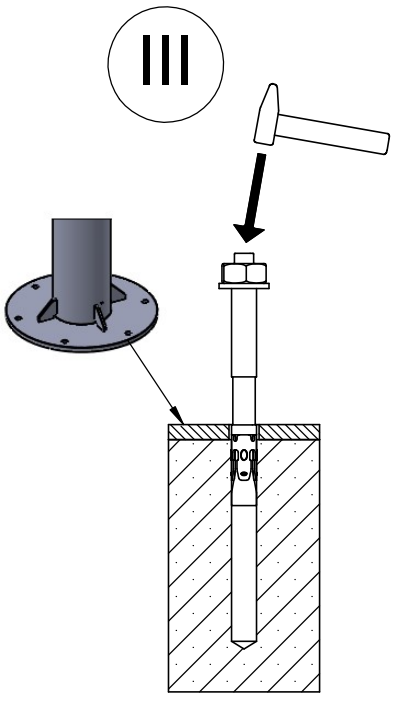
Nr	Element		
61		-	KL105

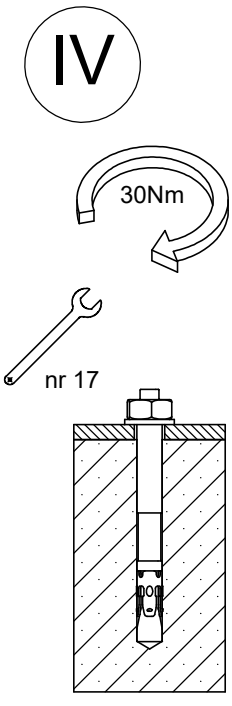


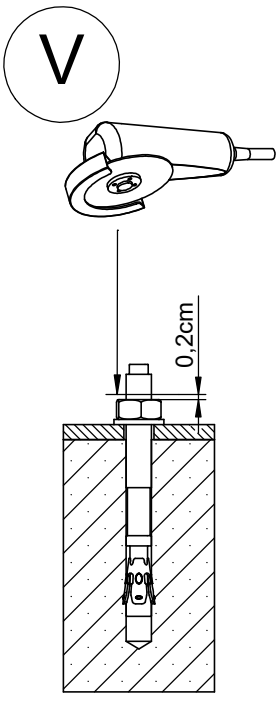


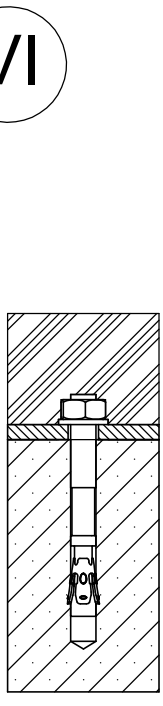




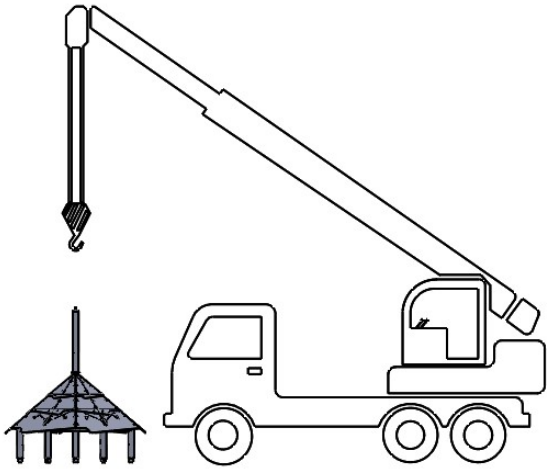








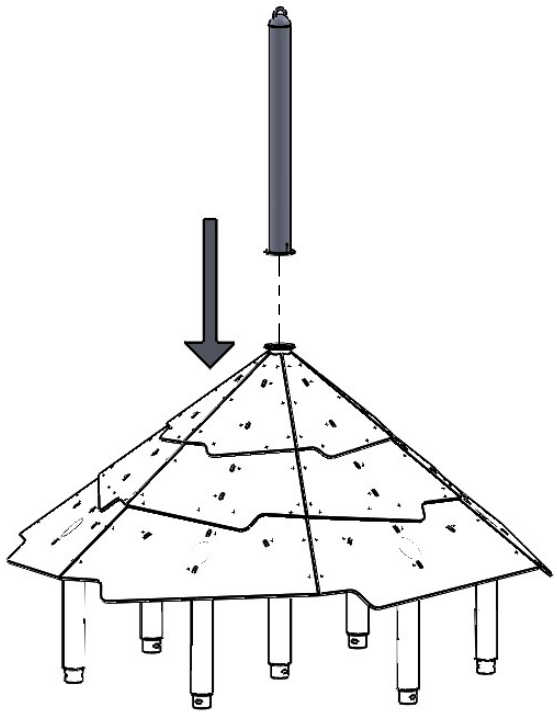
INST_12_3



300 KG

Nr	Σ	Element		
4	22		DIN 125	10x20
5	7		DIN 985	M10
44	4		ISO 7380	M10x25
57	4		DIN 1587	M10
58	1		-	LOCTITE
77	14	R4	-	K3_d30_A89_G
78	14		-	Z3_d30_G
176	7		DIN 931	M10x140

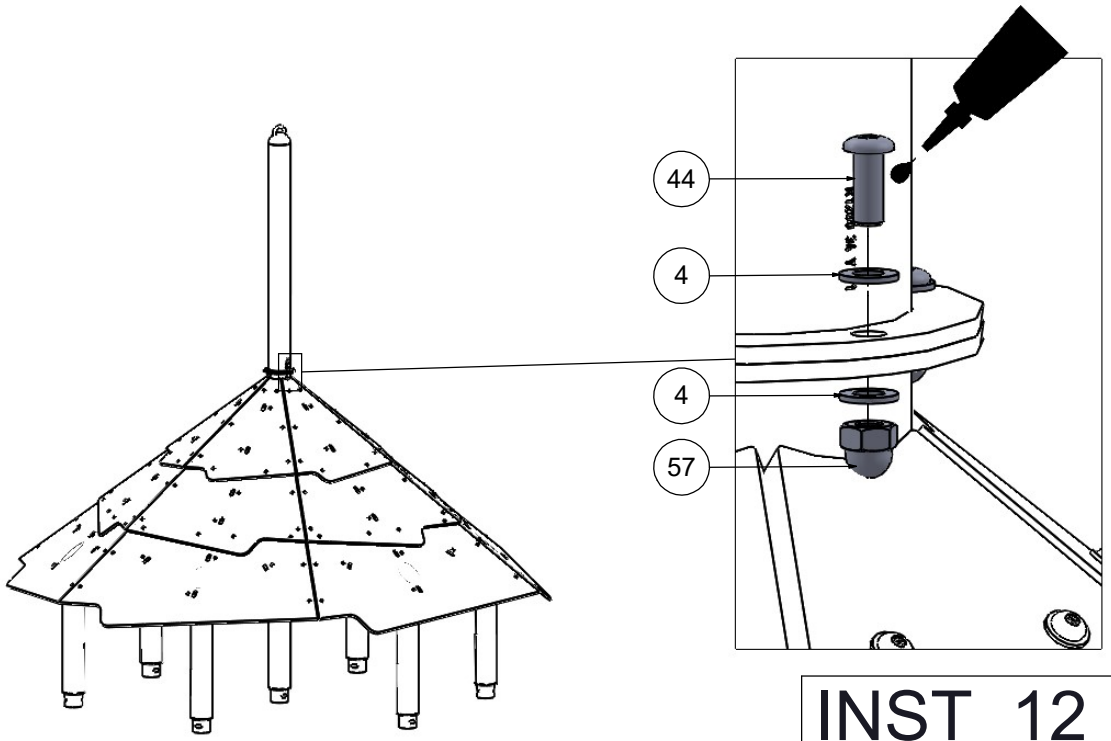
1





Nr. 17

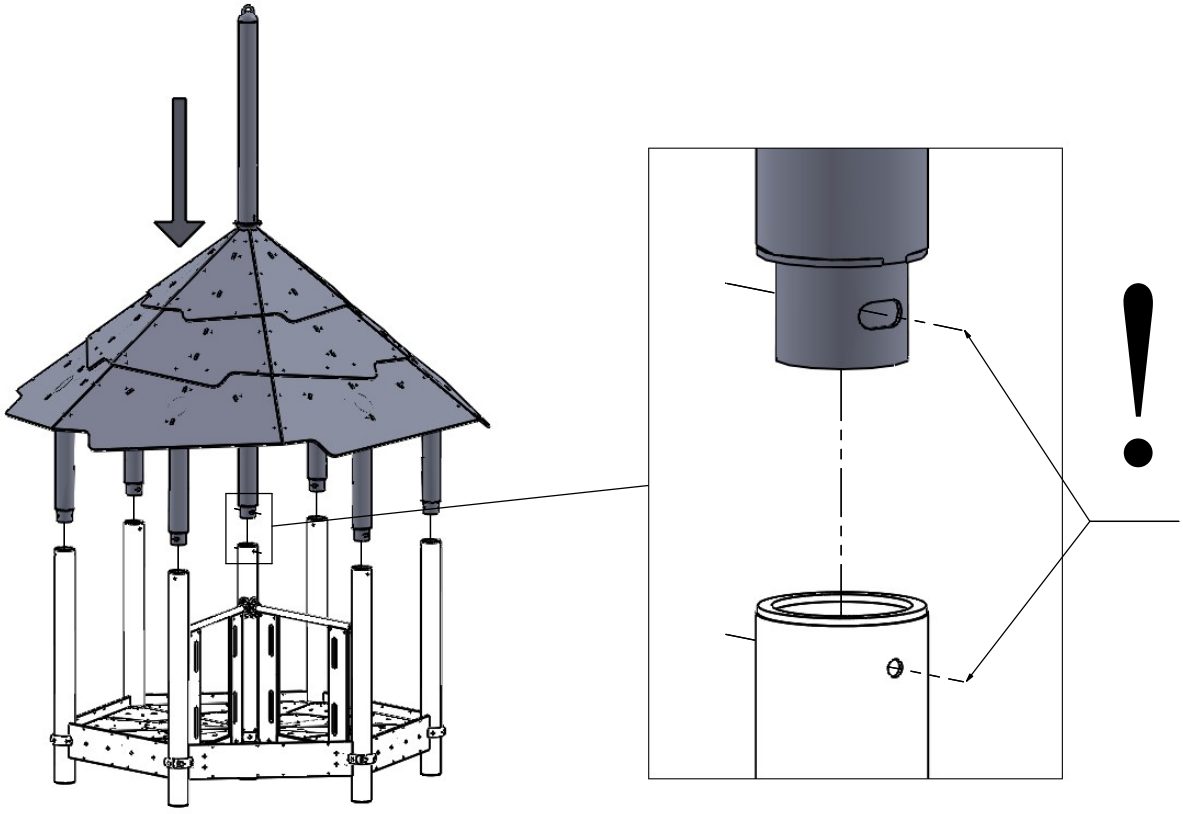
2



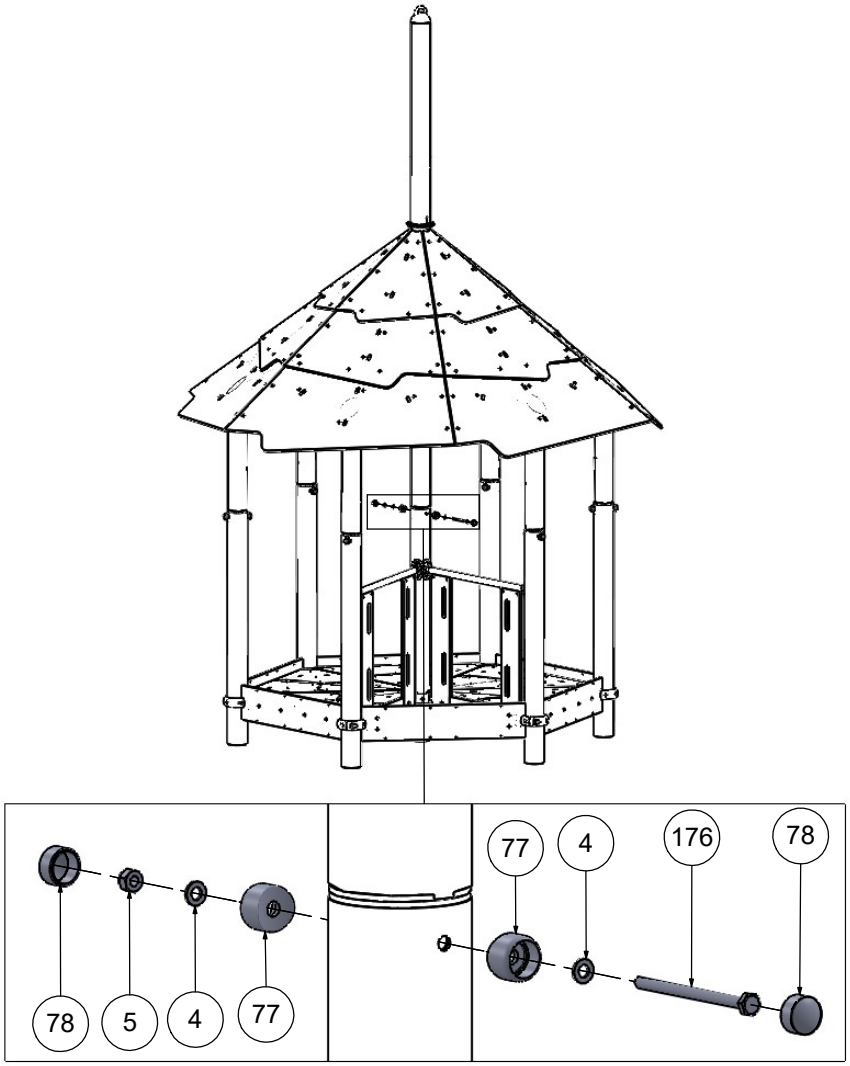
INST_12_3 1/2

INST_12_3

3



4



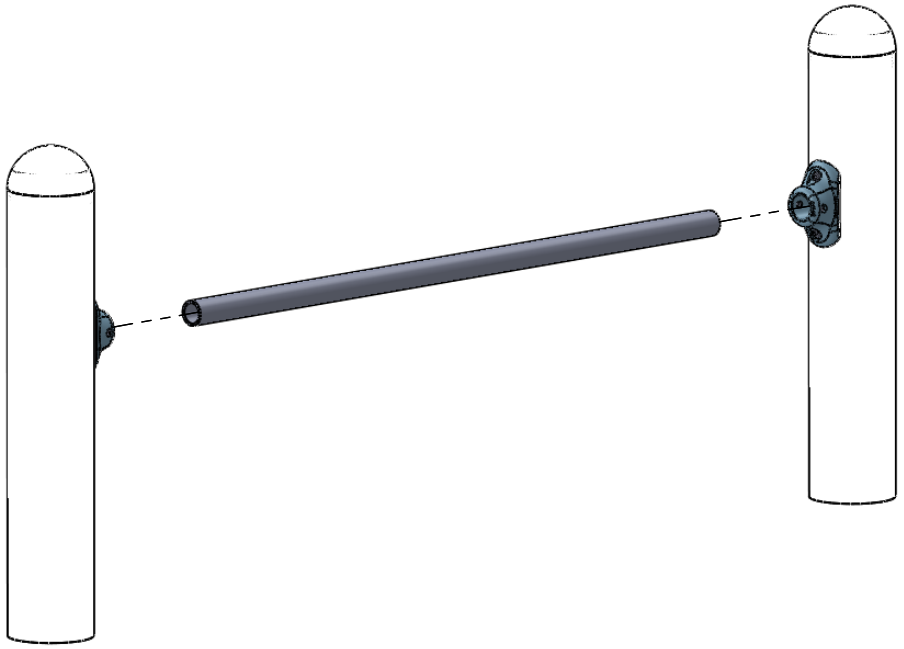
INST_12_4

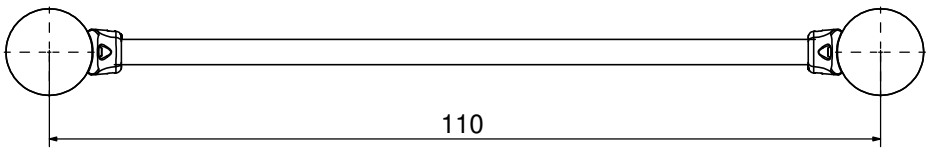
Nr	Σ	Element		
58	1		-	LOCTITE



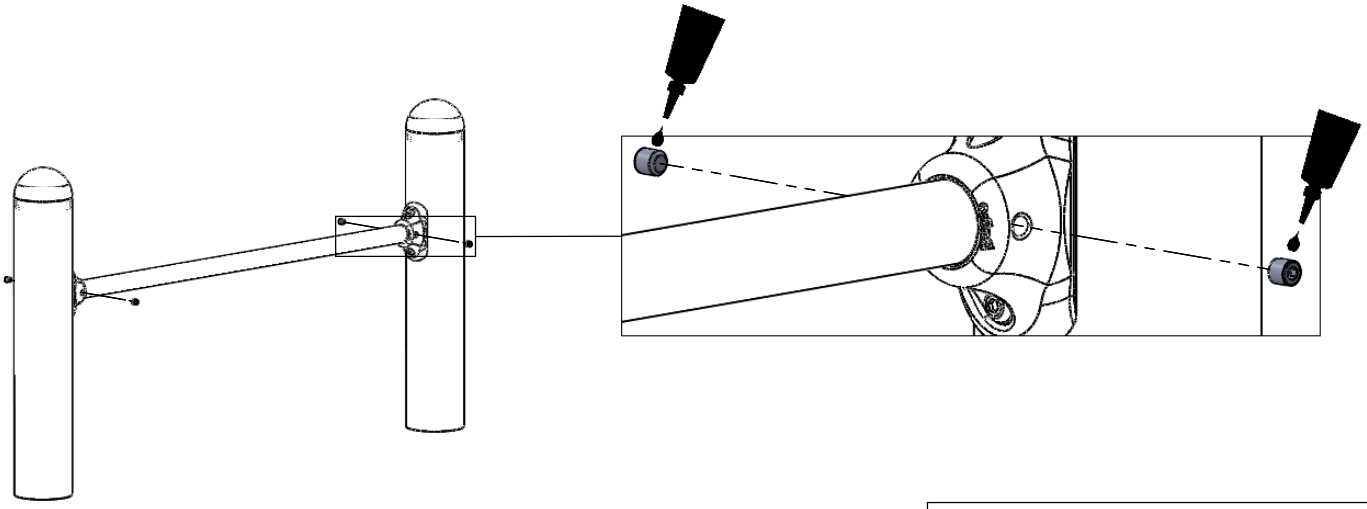
Nr. 5

1





2



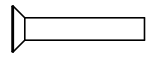
INST_12_16_H30



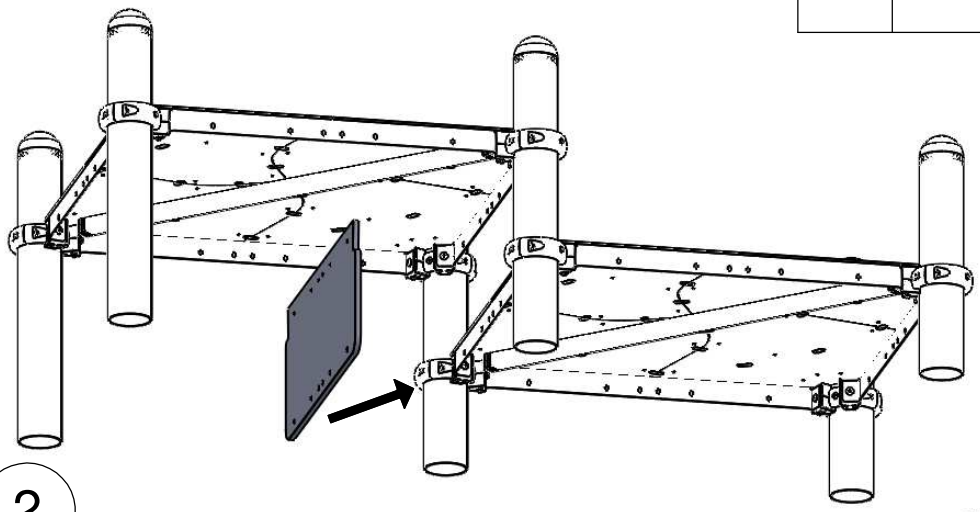
Nr. 4



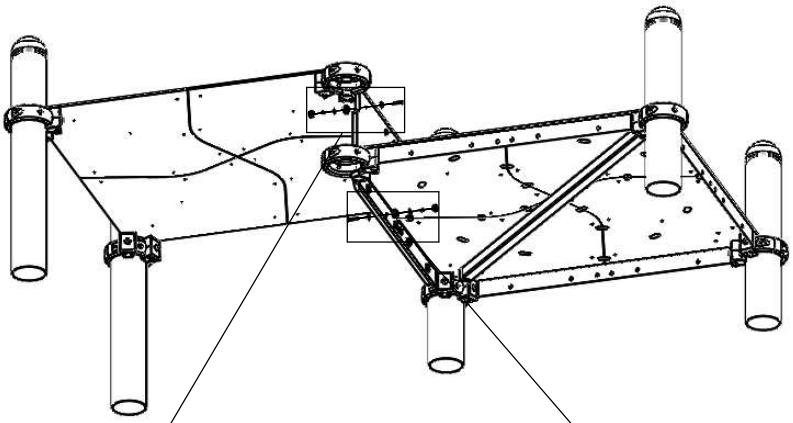
Nr. T30

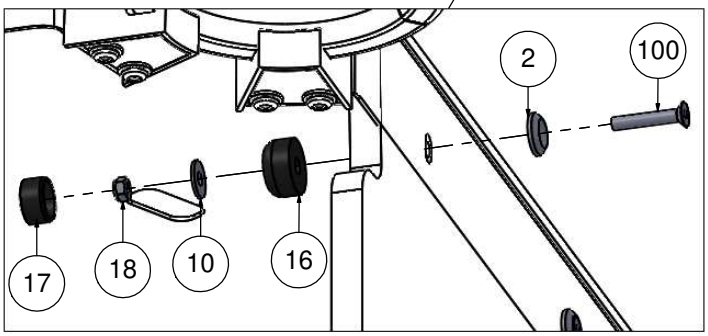
Nr	Σ	Element		
2	12		-	W6x60
10	12		DIN 9021	6x18
16	12		-	K1_d21_B
17	12		-	Z1_d21_B
18	12		DIN 985	M6 (OC)
100	12		DIN 7991	M6x35

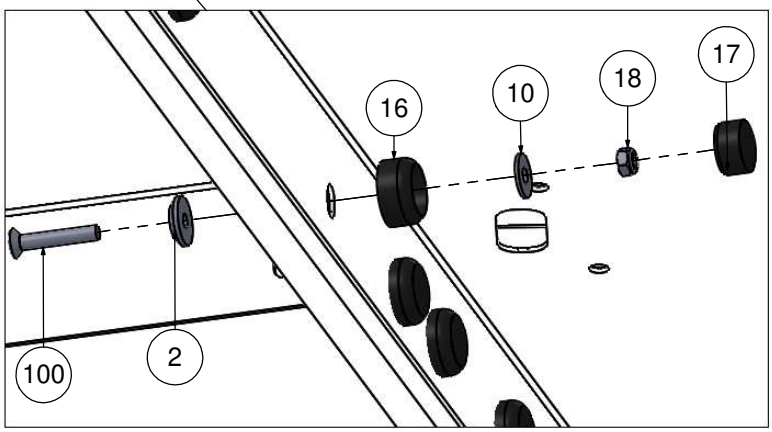
1



2

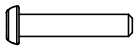






INST_12_17

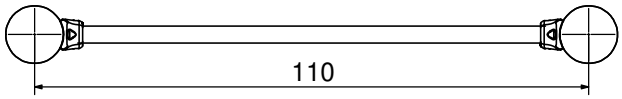


Nr	Σ	Element		
10	6		DIN 9021	6x18
15	6		ISO 7380	M6x30
16	6		-	K1_d21_B
17	6		-	Z1_d21_B
18	6		DIN 985	M6 (OC)
22	6		DIN 125	6x12
58	1		-	LOCTITE

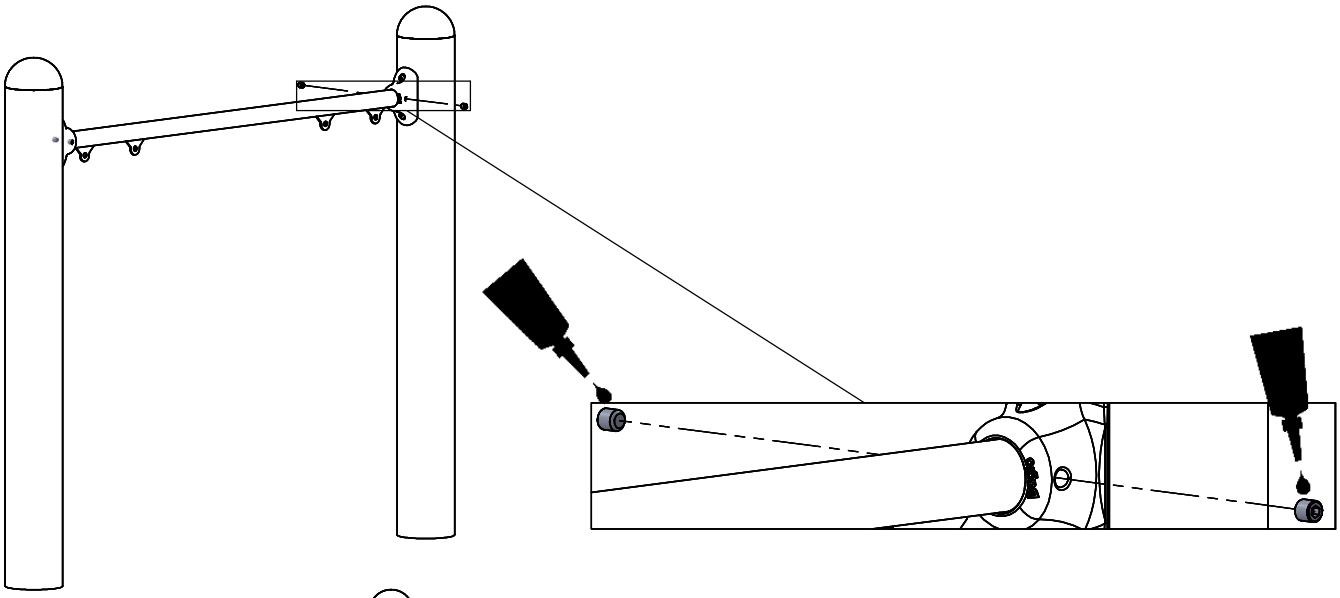
1

Nr. 4, 5 Nr. T30

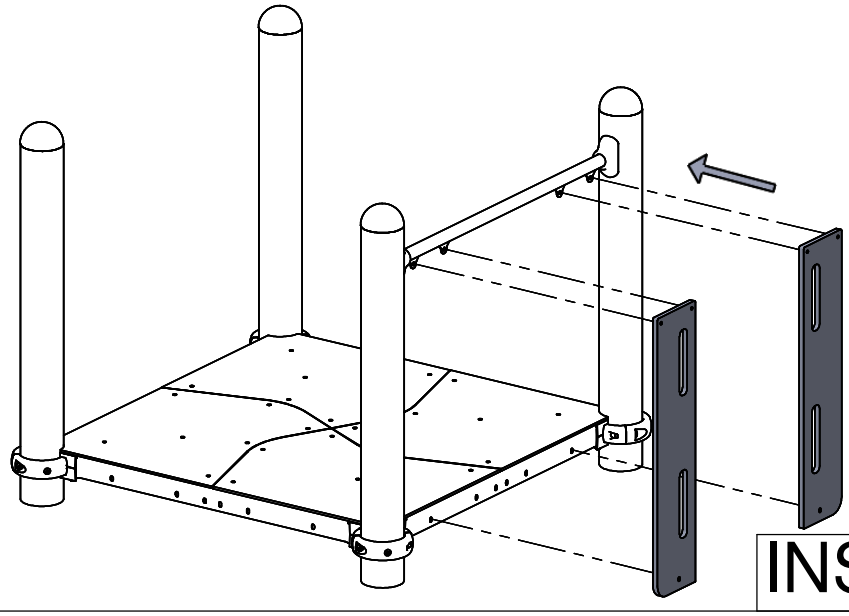




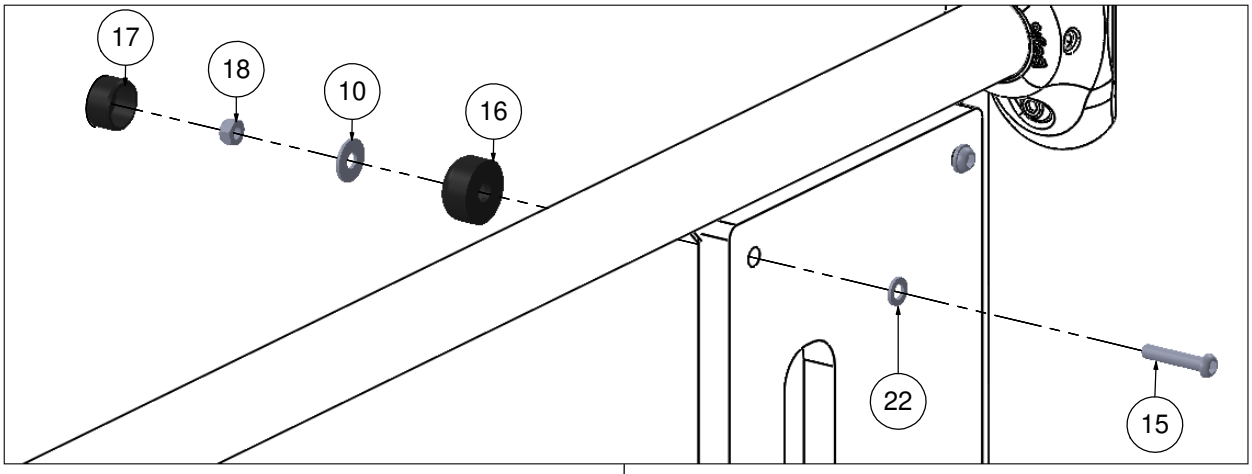
2

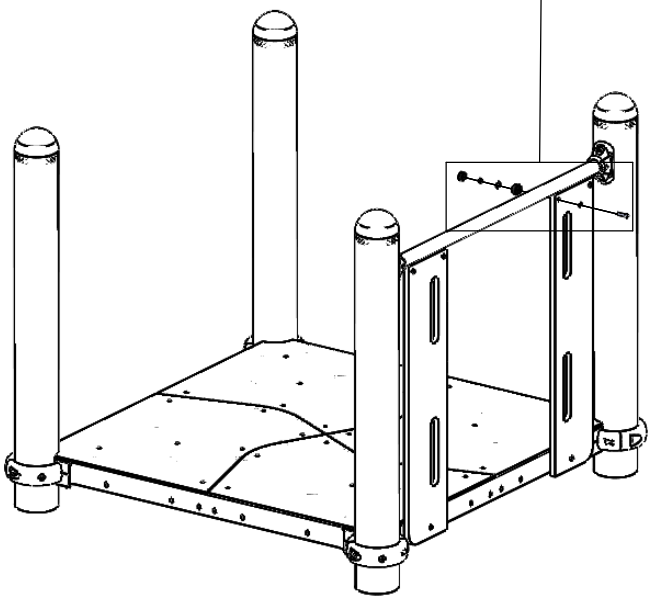


3

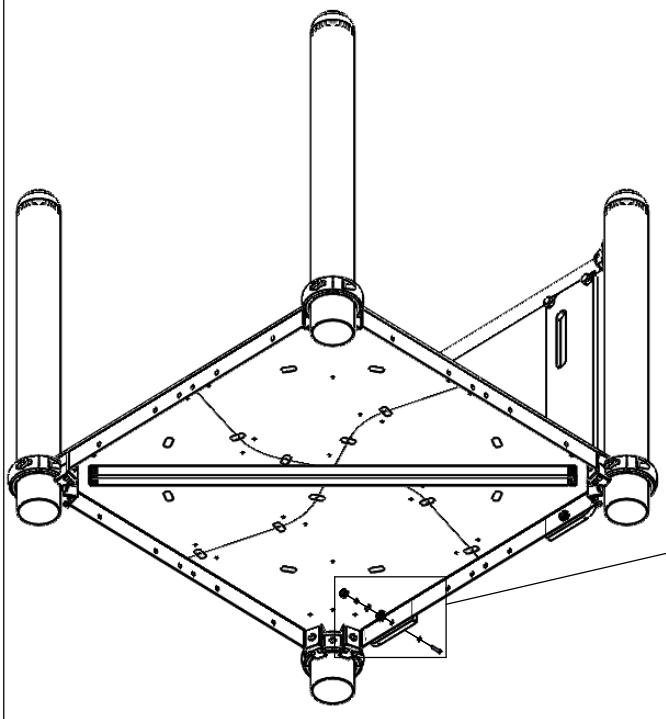


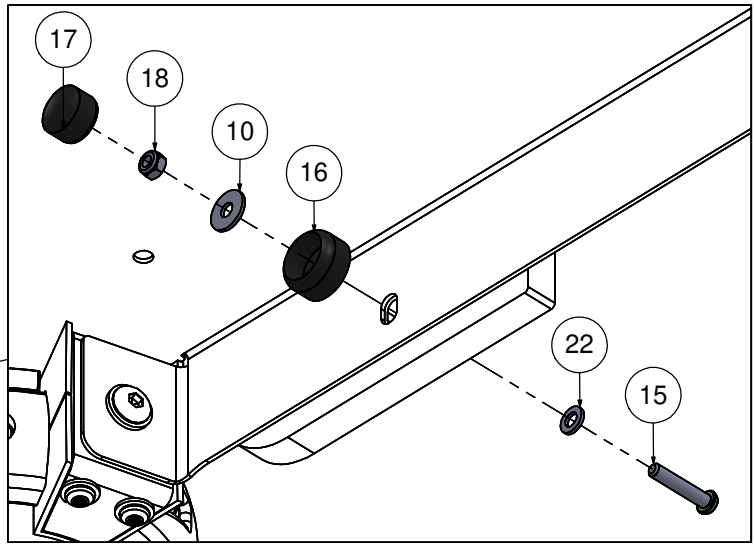
4





5





INST_12_18

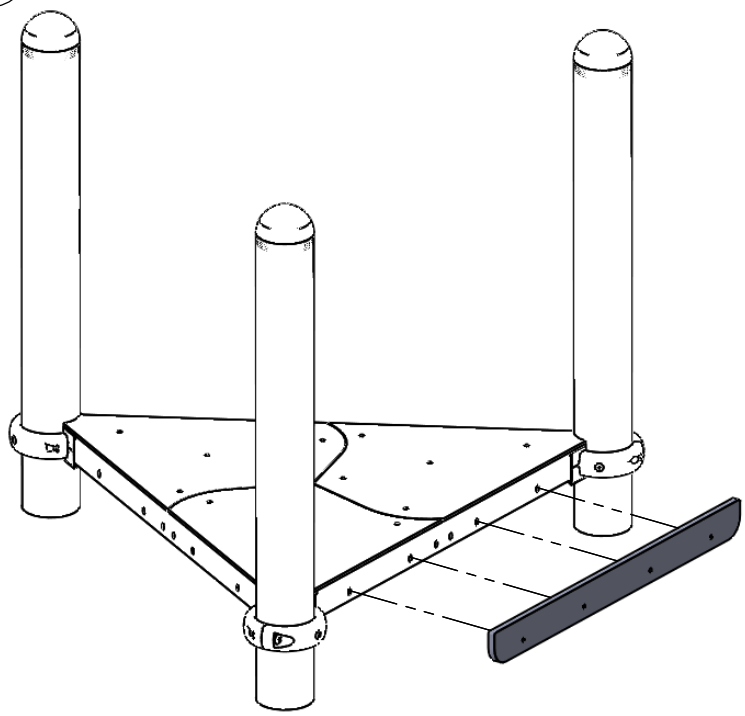




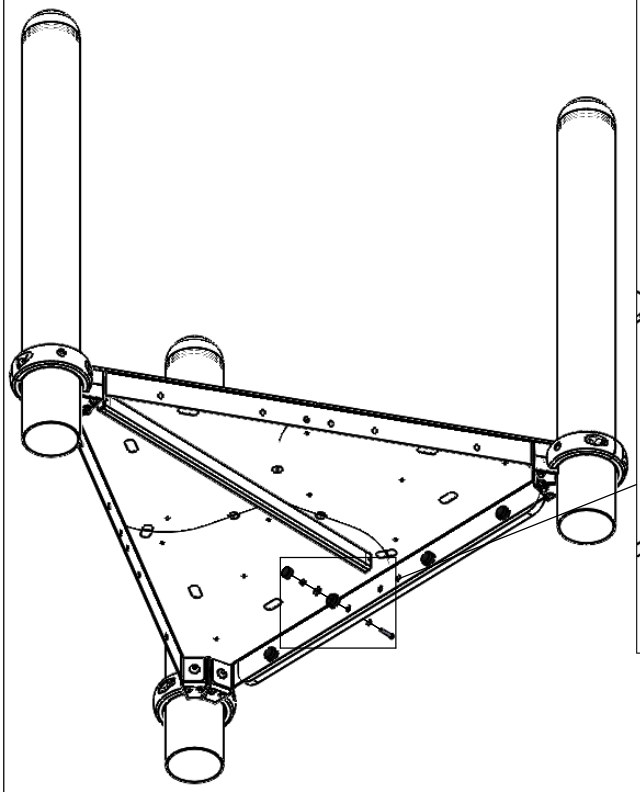
Nr. 4 Nr. T30

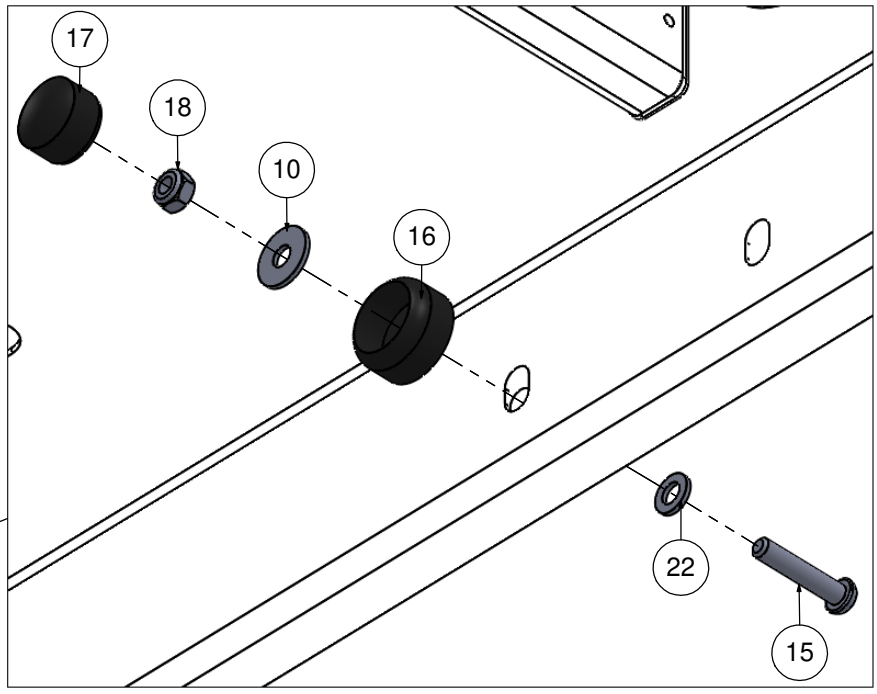
Nr	Σ	Element		
10	4		DIN 9021	6x18
15	4		ISO 7380	M6x30
16	4		-	K1_d21_B
17	4		-	Z1_d21_B
18	4		DIN 985	M6 (OC)
22	4		DIN 125	6x12
58	1		-	LOCTITE

1

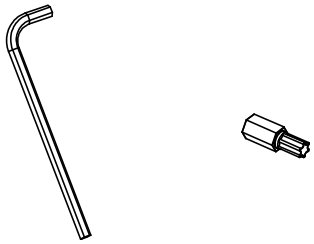


2





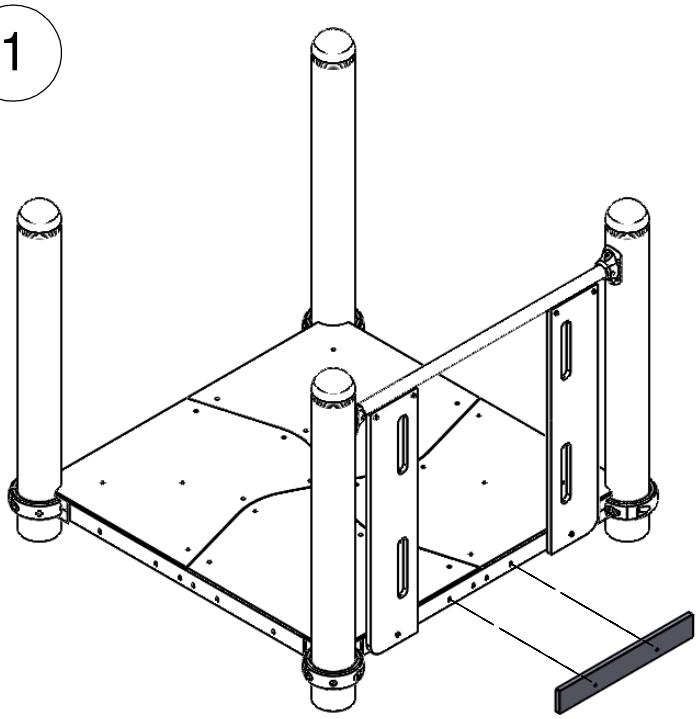
INST_12_19



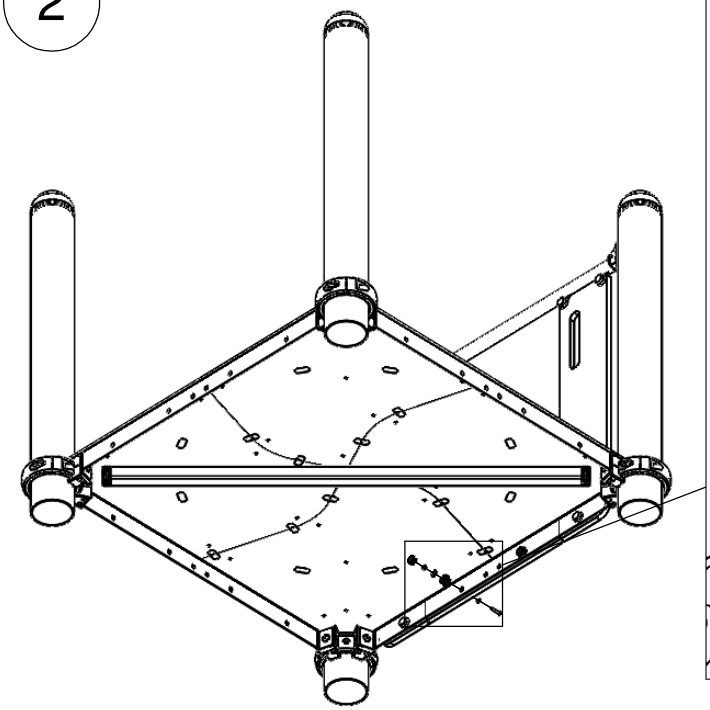
Nr. 4 Nr. T30

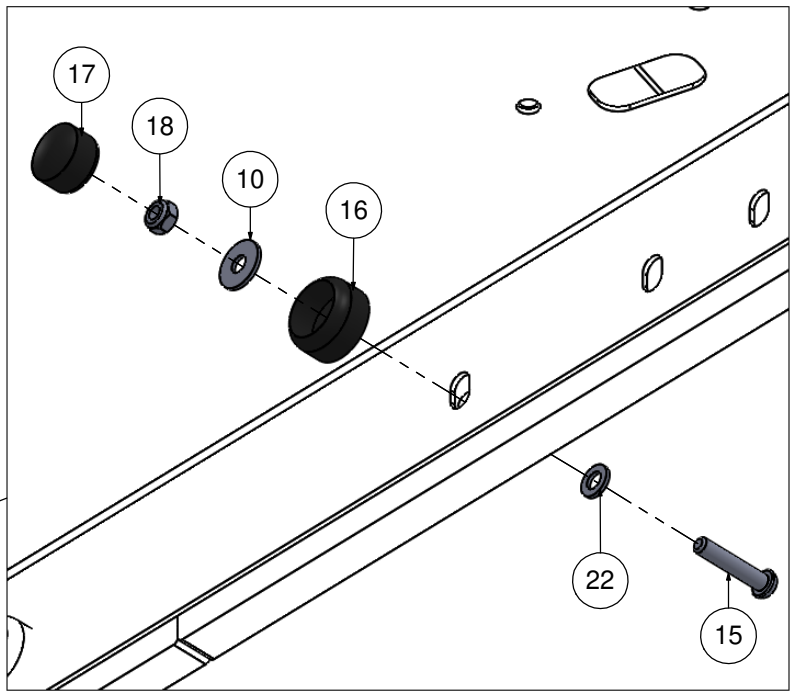
Nr	Σ	Element		
10	2		DIN 9021	6x18
15	2		ISO 7380	M6x30
16	2		-	K1_d21_B
17	2		-	Z1_d21_B
18	2		DIN 985	M6 (OC)
22	2		DIN 125	6x12
58	1		-	LOCTITE

1

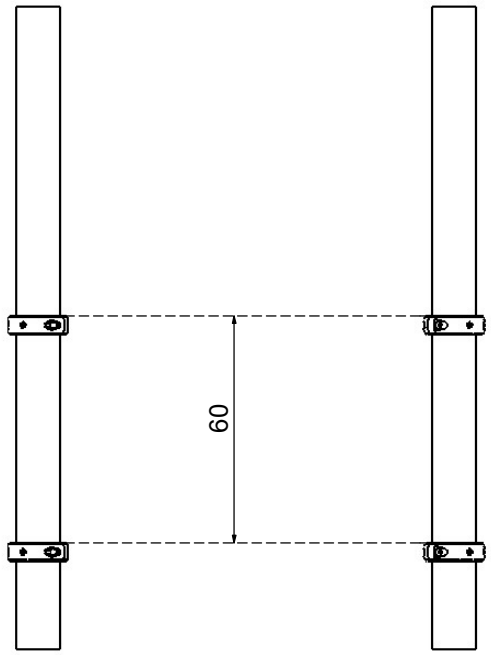


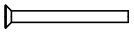
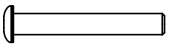
2





INST_12_21



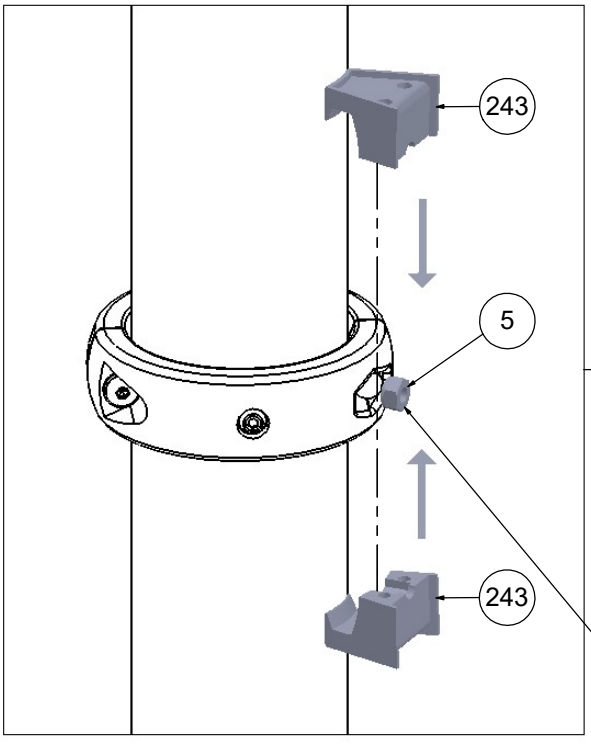
Nr	Σ	Element		
4	4		DIN 125	10x20
5	4		DIN 985	M10
21	8		DIN 125	8x16
58	1		-	LOCTITE
147	8		-	M6x10
242	4		-	1200_1_A2_g3_G_v3
243	8		-	UCHW_114,3
245	8		DIN 7991	M6x65
275	4		ISO 7380	M10x70

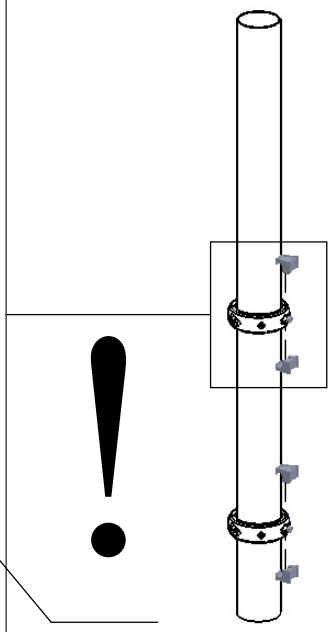

Nr. 17


Nr. 4, 6


Nr. T30

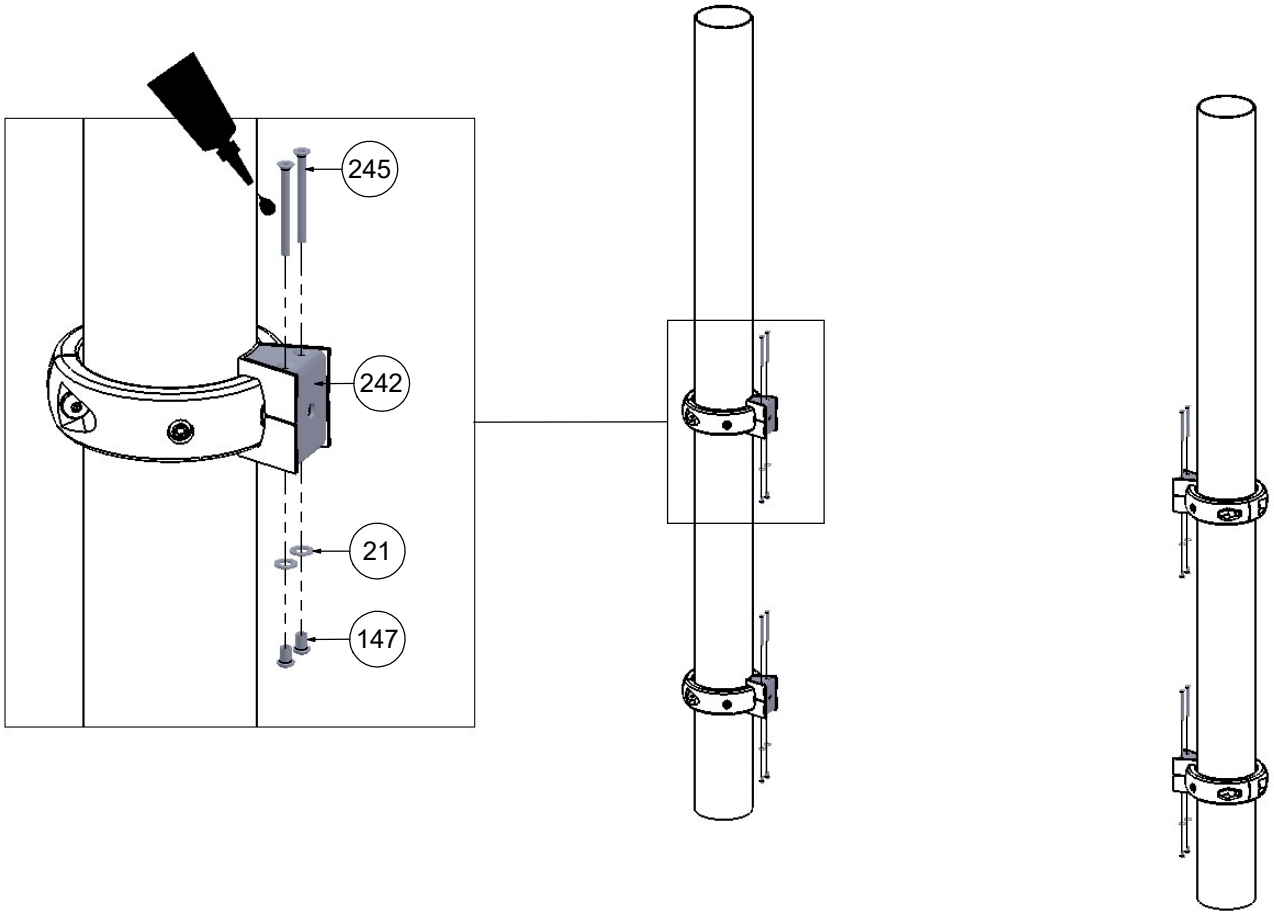
1



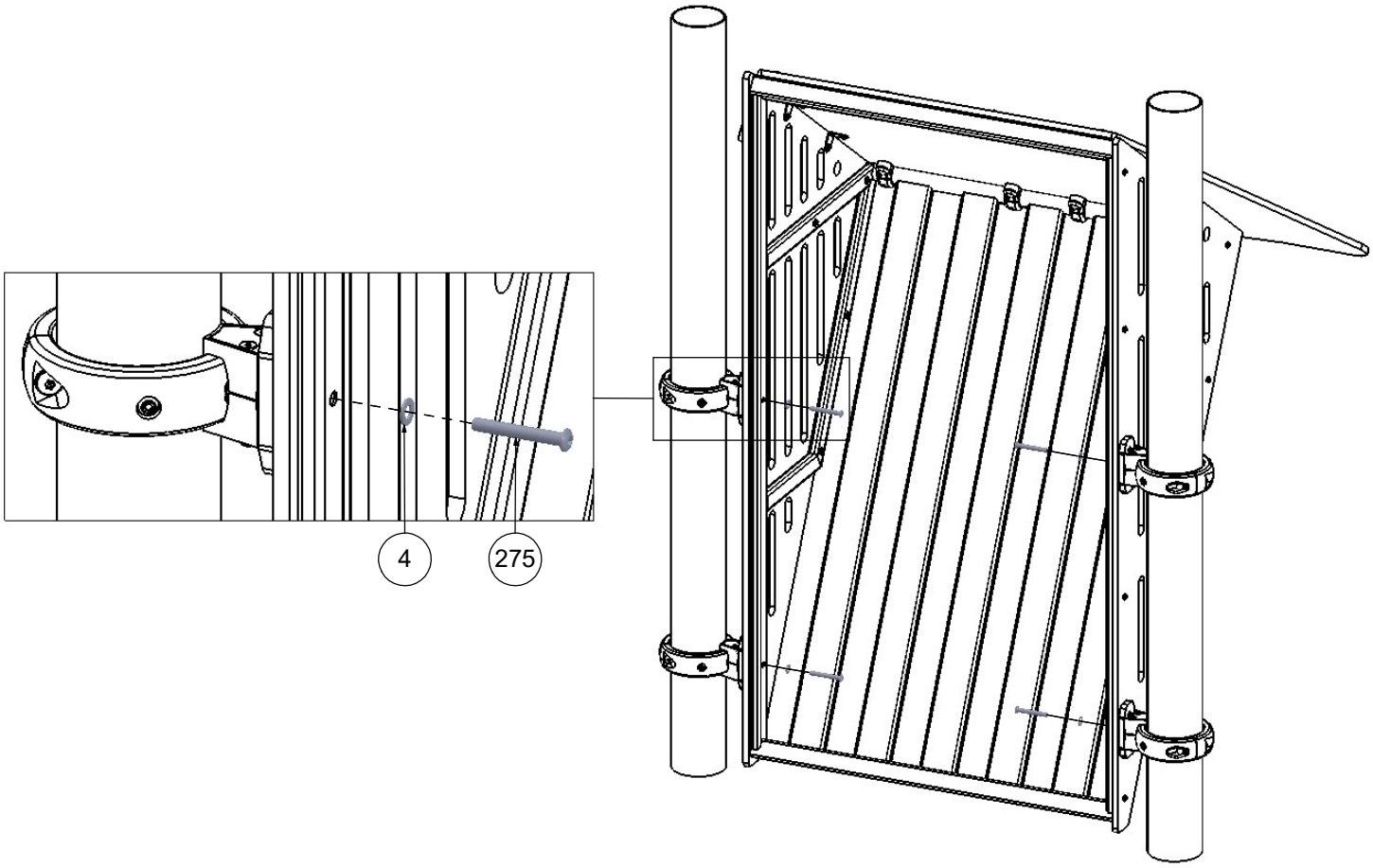




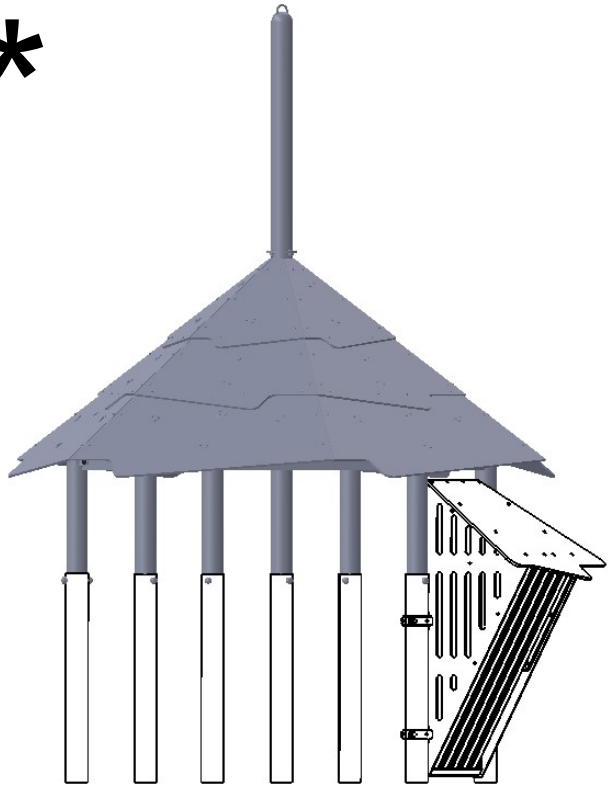
2



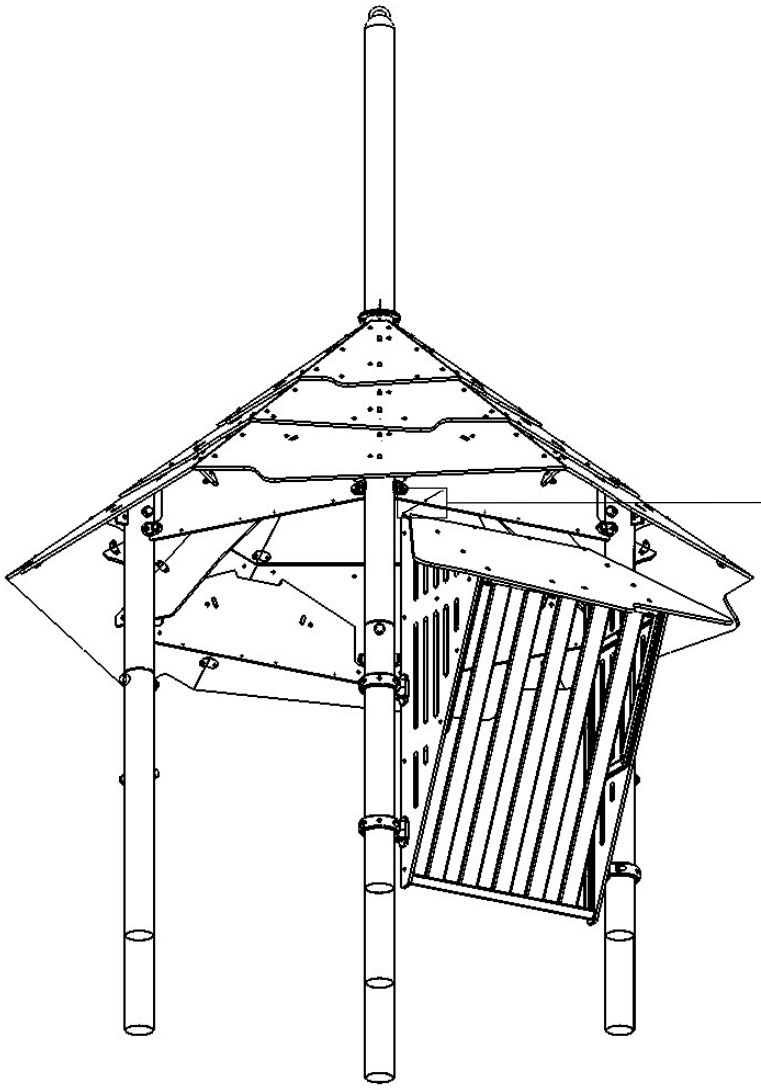
3

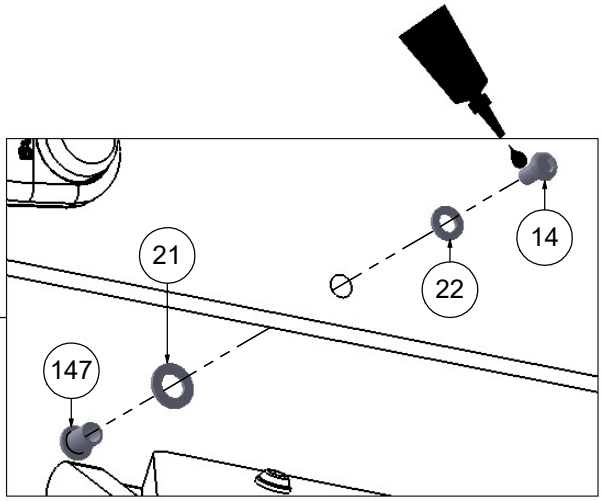


*



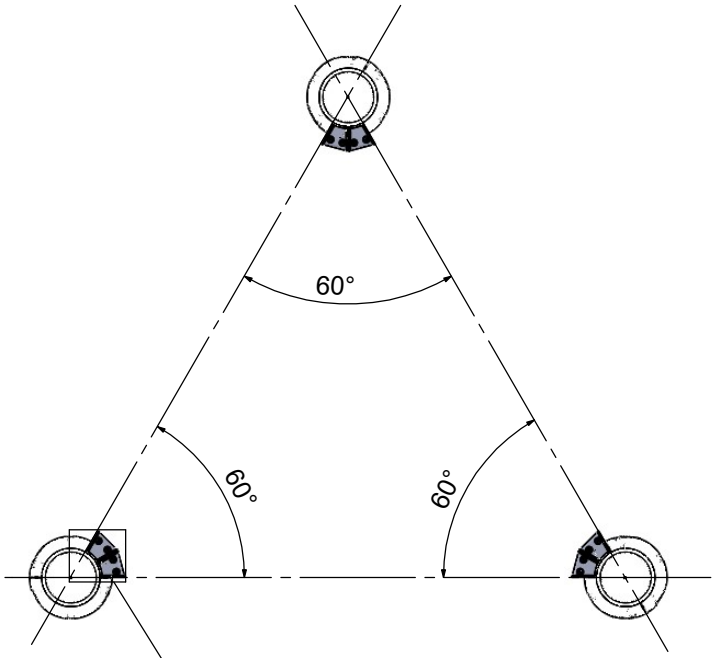
Nr	Σ	Element		
14	4		ISO 7380	M6x12
21	4		DIN 125	8x16
22	4		DIN 125	6x12
58	1		-	LOCTITE
147	4		-	M6x10

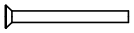


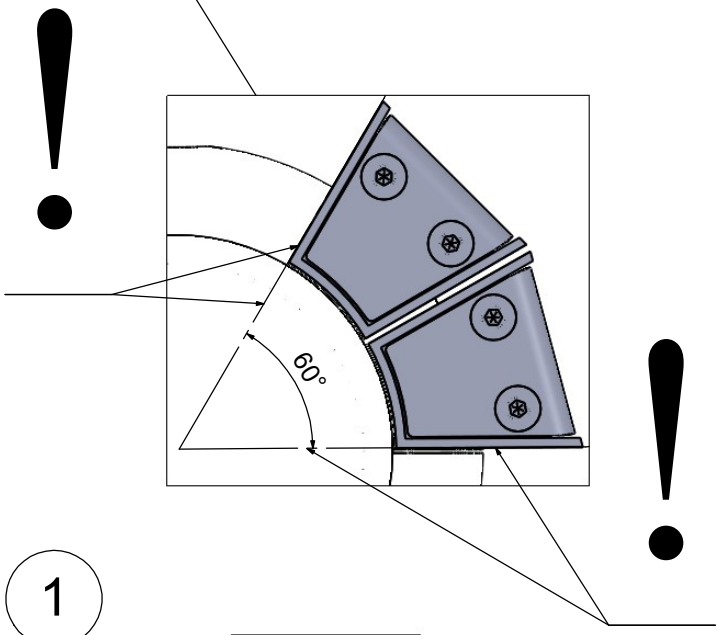


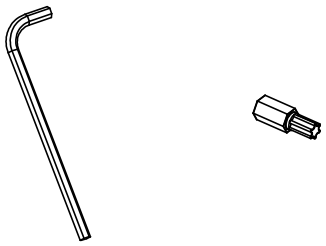
INST_12_21 3/3

INST_12_25



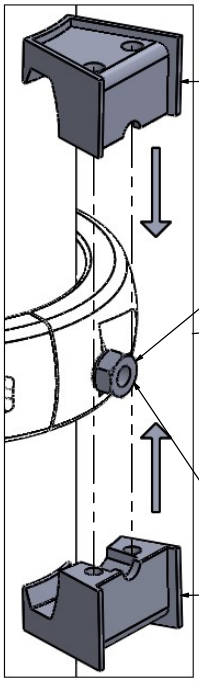
Nr	Σ	Element		
5	6		DIN 985	M10
21	12		DIN 125	8x16
44	6		ISO 7380	M10x25
58	1		-	LOCTITE
147	12		-	M6x10
242	6		-	1200_1_A2_g3_G_v3
243	12		-	UCHW_114,3
245	12		DIN 7991	M6x65
249	6		NYLON DIN 125	10x20

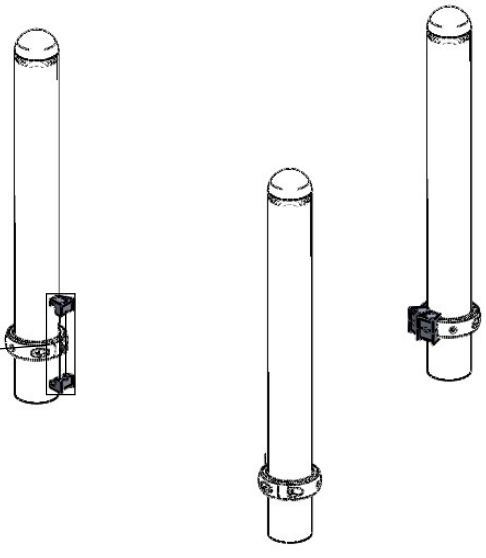




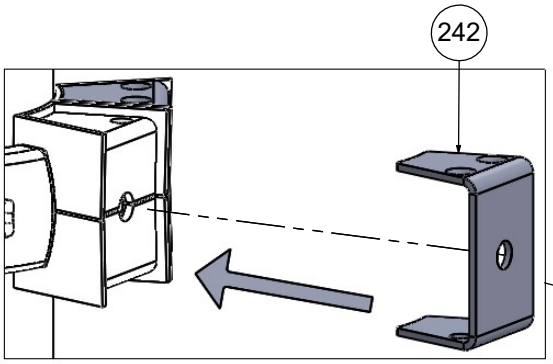
Nr. 4, 6 Nr. T30

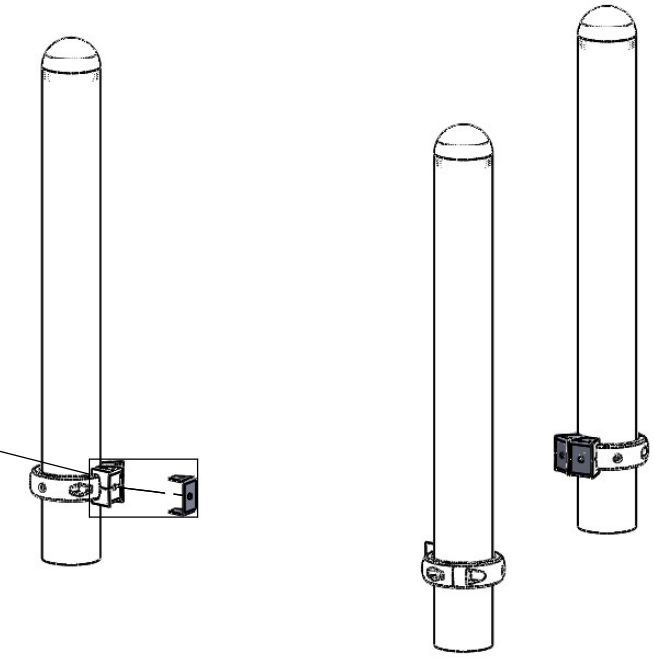
1



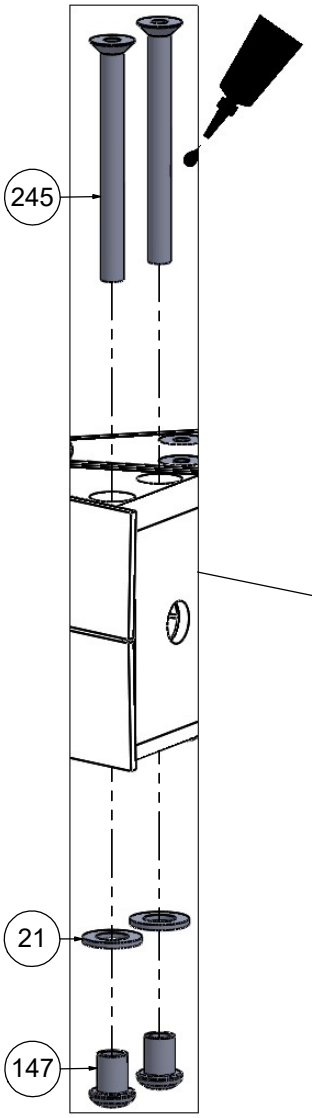


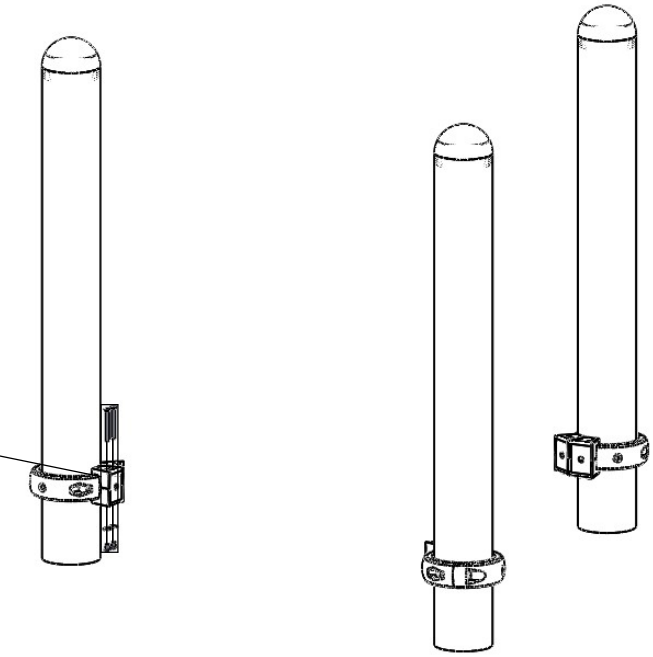
2



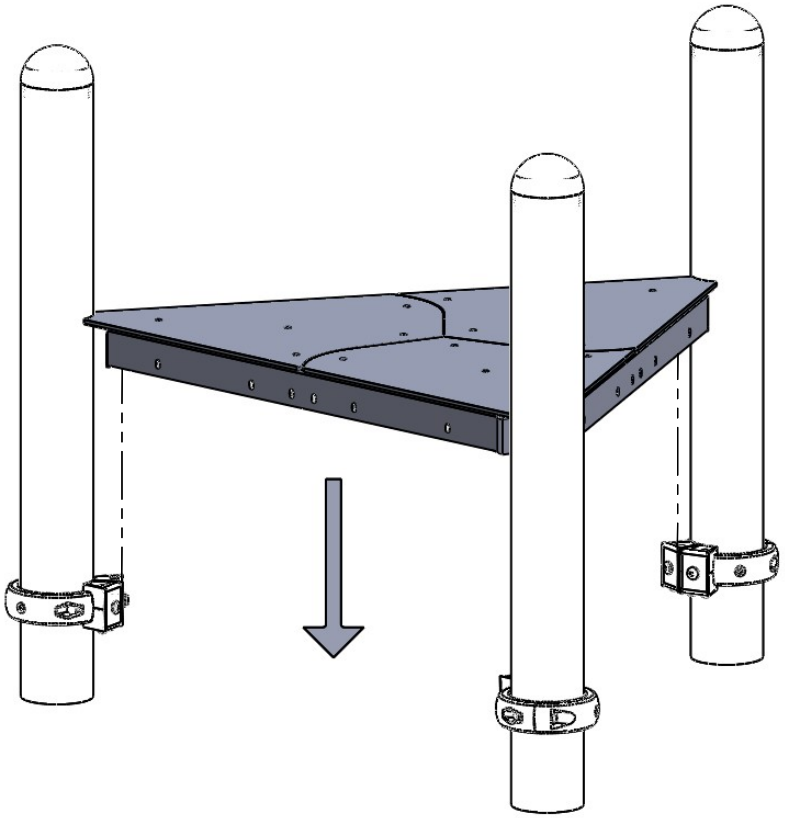


3

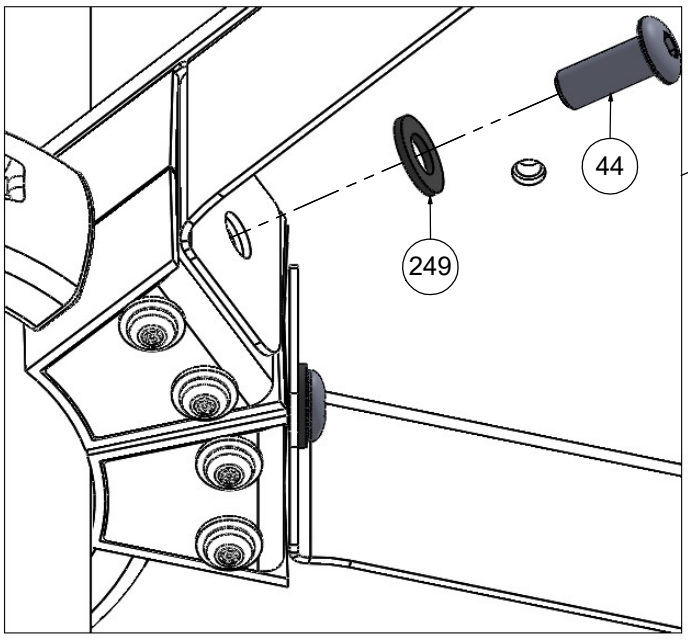


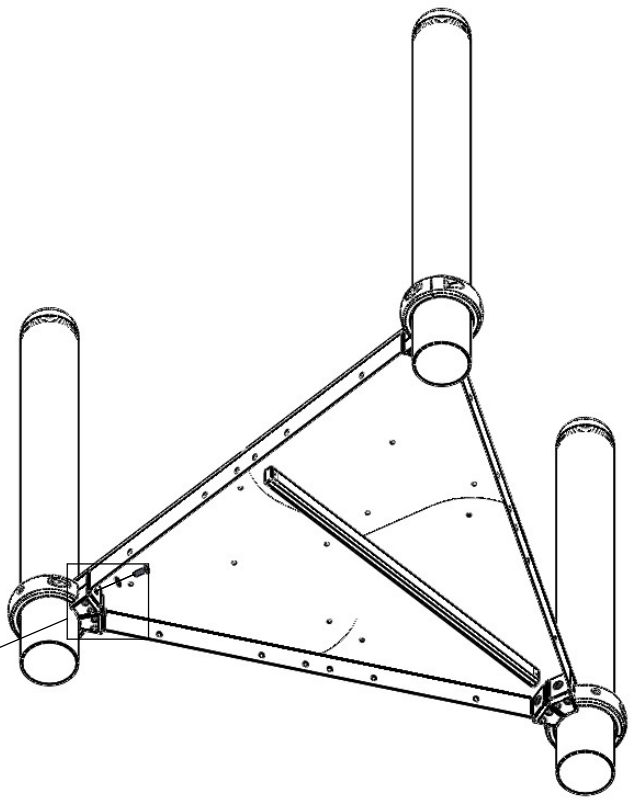


4



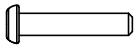
5





INST_12_25 3/3

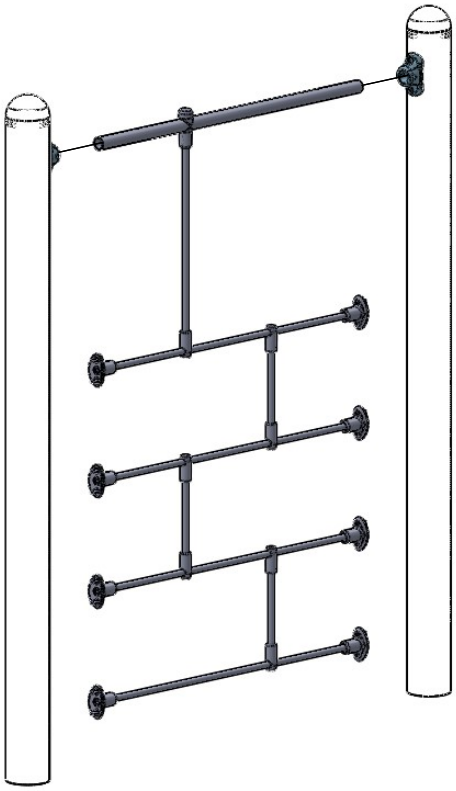
INST_12_40

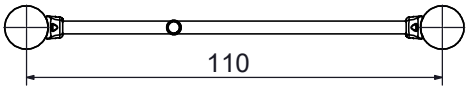
Nr	Σ	Element		
15	16		ISO 7380	M6x30
22	16		DIN 125	6x12
58	1		-	LOCTITE



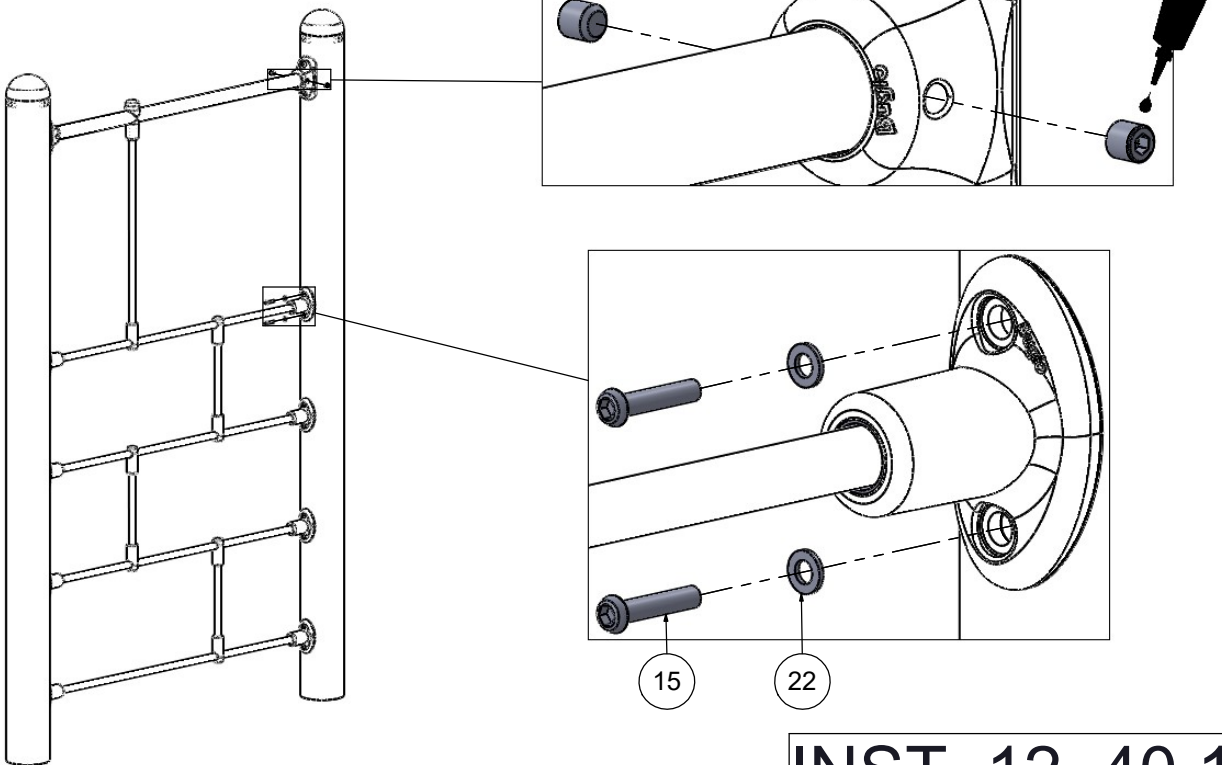
Nr. 4, 5

1

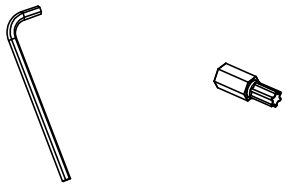




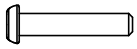
2



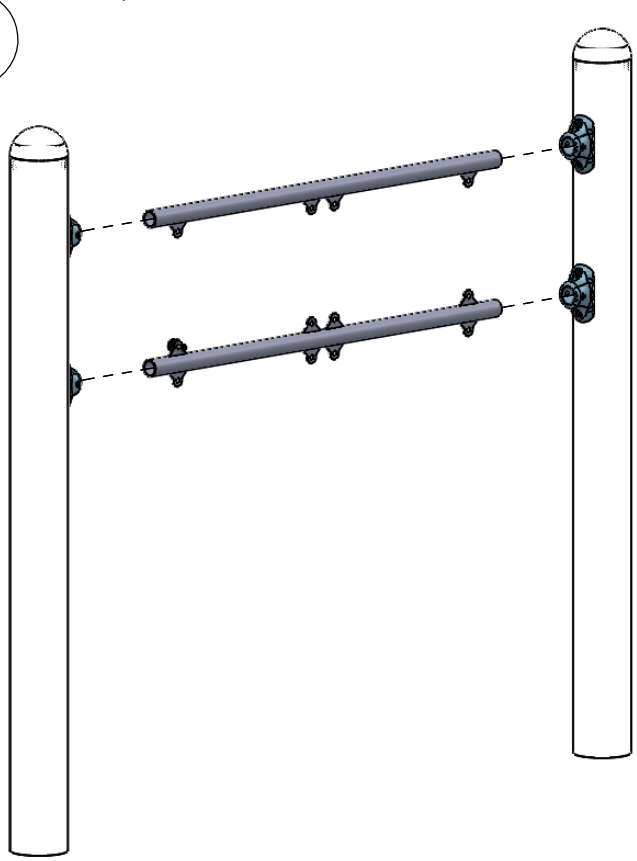
INST_12_49

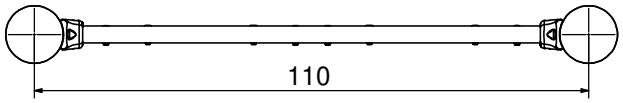


Nr. 4, 5 Nr. T30

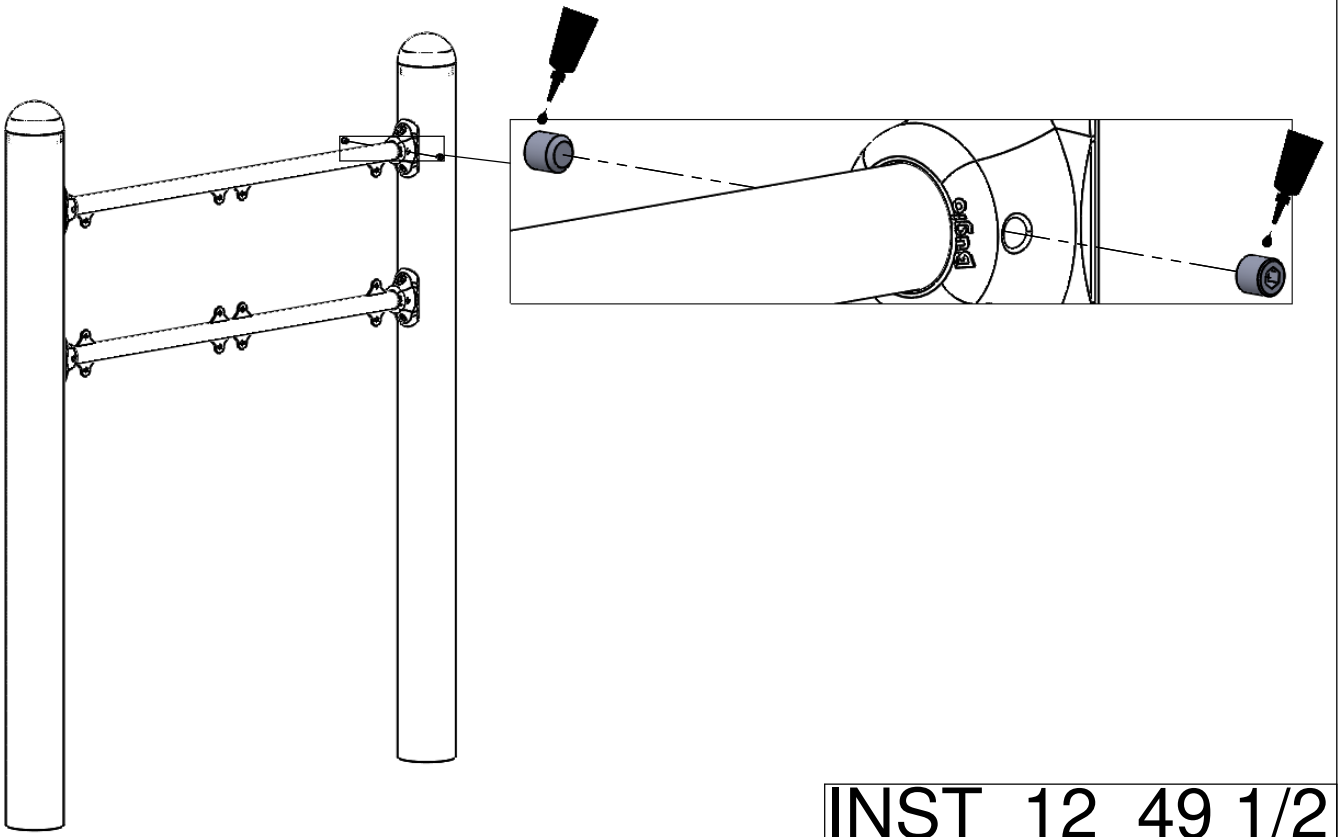
Nr	Σ	Element		
10	8		DIN 9021	6x18
15	8		ISO 7380	M6x30
16	8		-	K1_d21_B
17	8		-	Z1_d21_B
18	8		DIN 985	M6 (OC)
22	8		DIN 125	6x12
58	1		-	LOCTITE

1

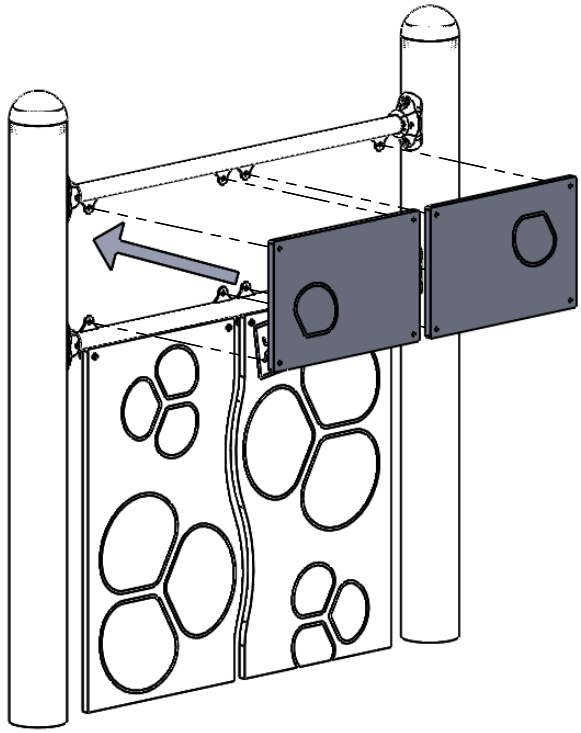




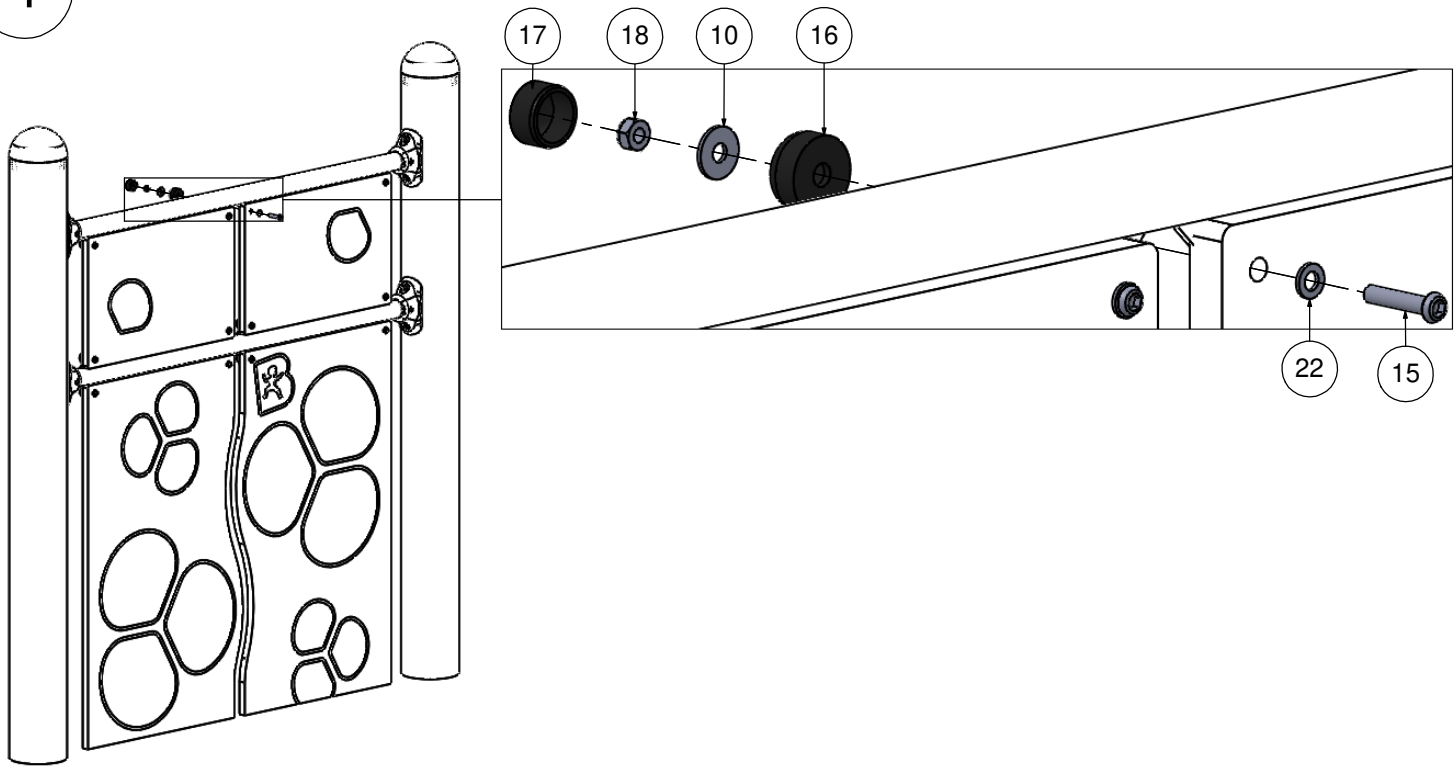
2



3



4



INST_12_54_1403



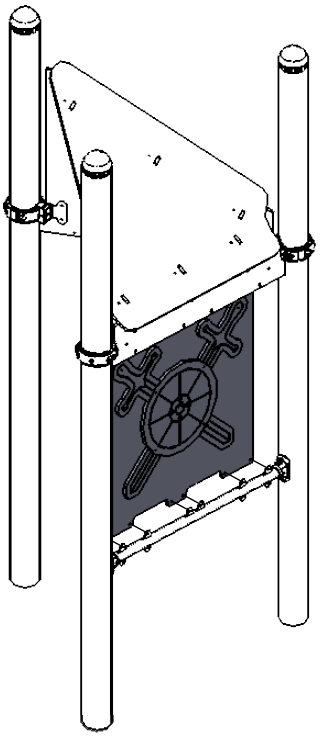
Nr. 4



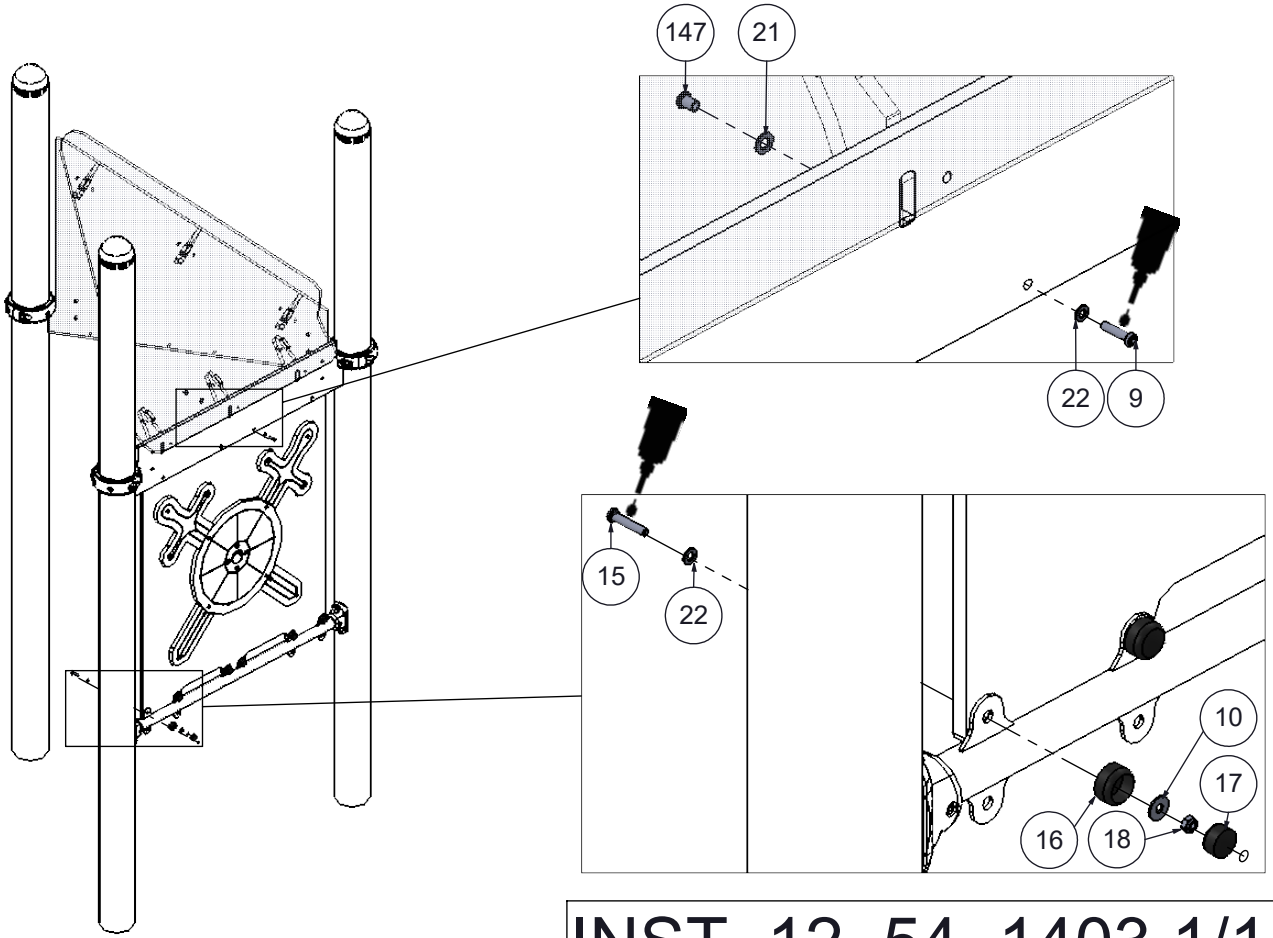
Nr. T30

Nr	Σ	Element		
9	4		ISO 7380	M6x25
10	6		DIN 9021	6x18
15	6		ISO 7380	M6x30
16	6		-	K1_d21_B
17	6		-	Z1_d21_B
18	6		DIN 985	M6 (OC)
21	4		DIN 125	8x16
22	10		DIN 125	6x12
58	1		-	LOCTITE
147	4		-	M6x10

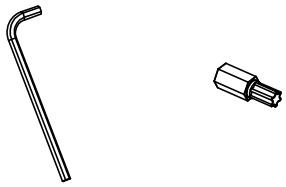
1



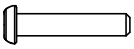
2



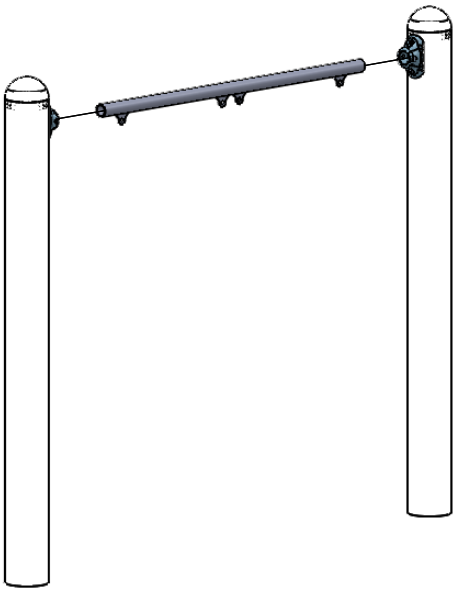
INST_12_54C

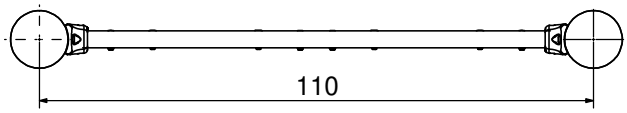


Nr. 4, 5 Nr. T30

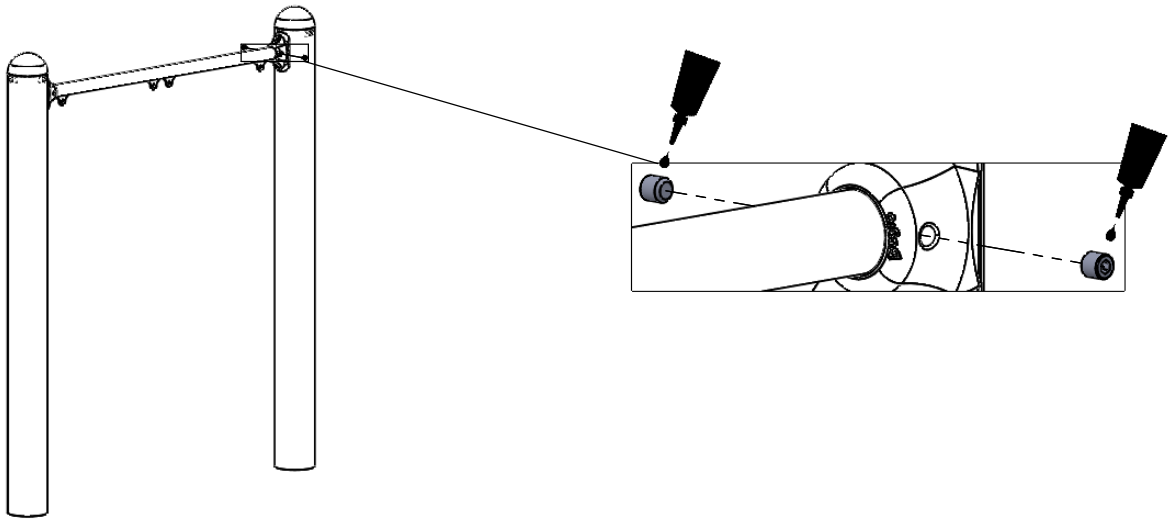
Nr	Σ	Element		
10	8		DIN 9021	6x18
15	8		ISO 7380	M6x30
16	8		-	K1_d21_B
17	8		-	Z1_d21_B
18	8		DIN 985	M6 (OC)
22	8		DIN 125	6x12
58	1		-	LOCTITE

1

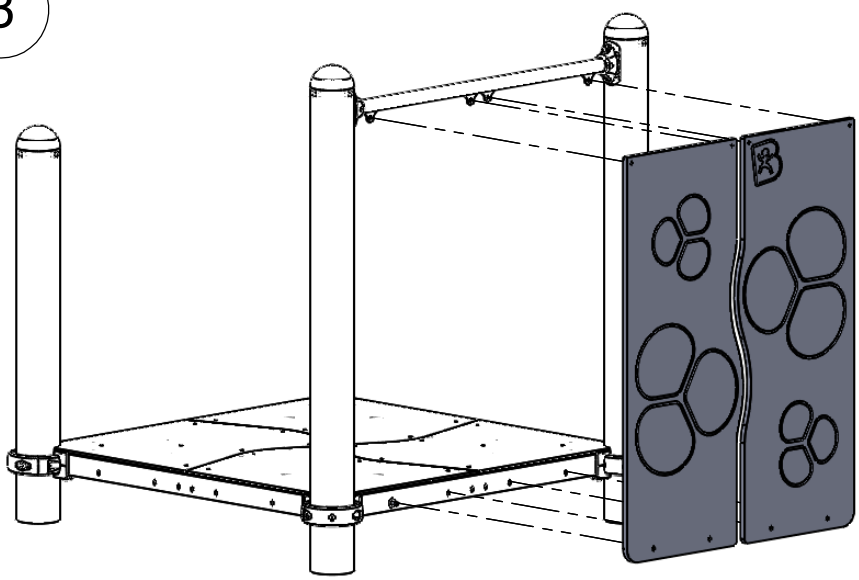




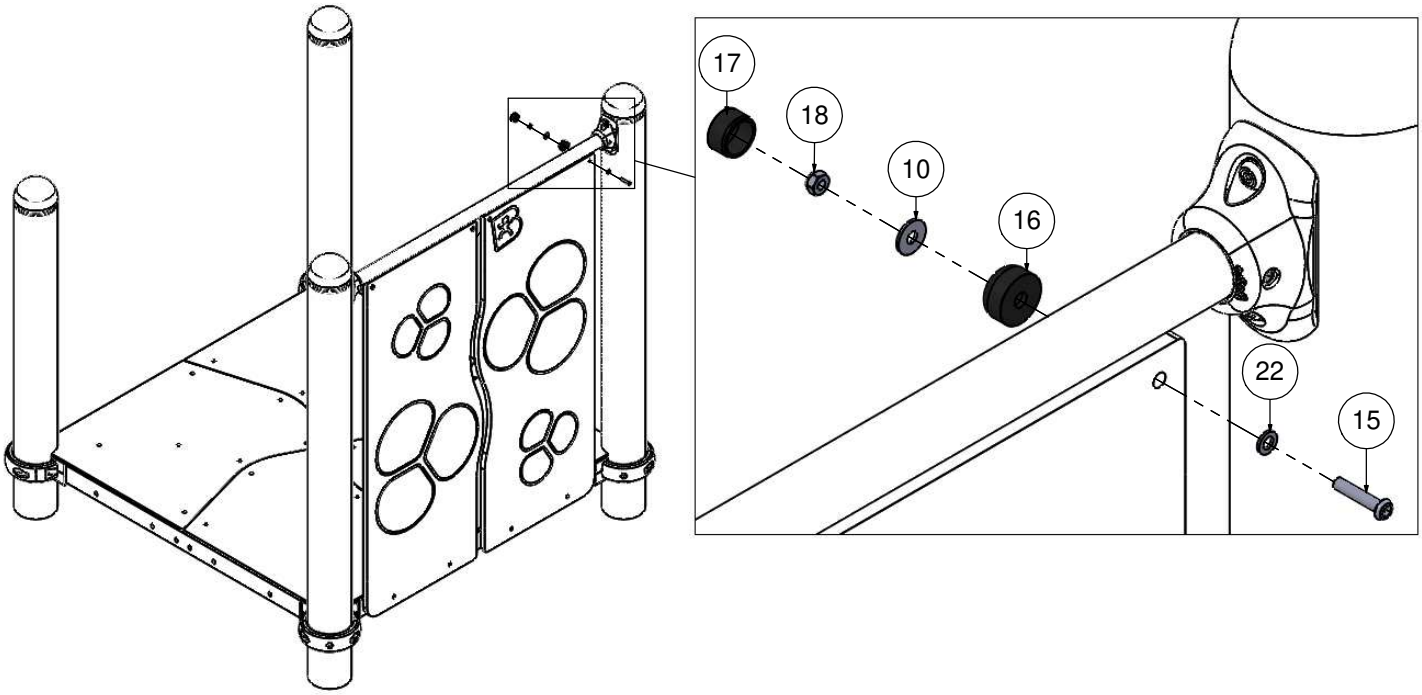
2



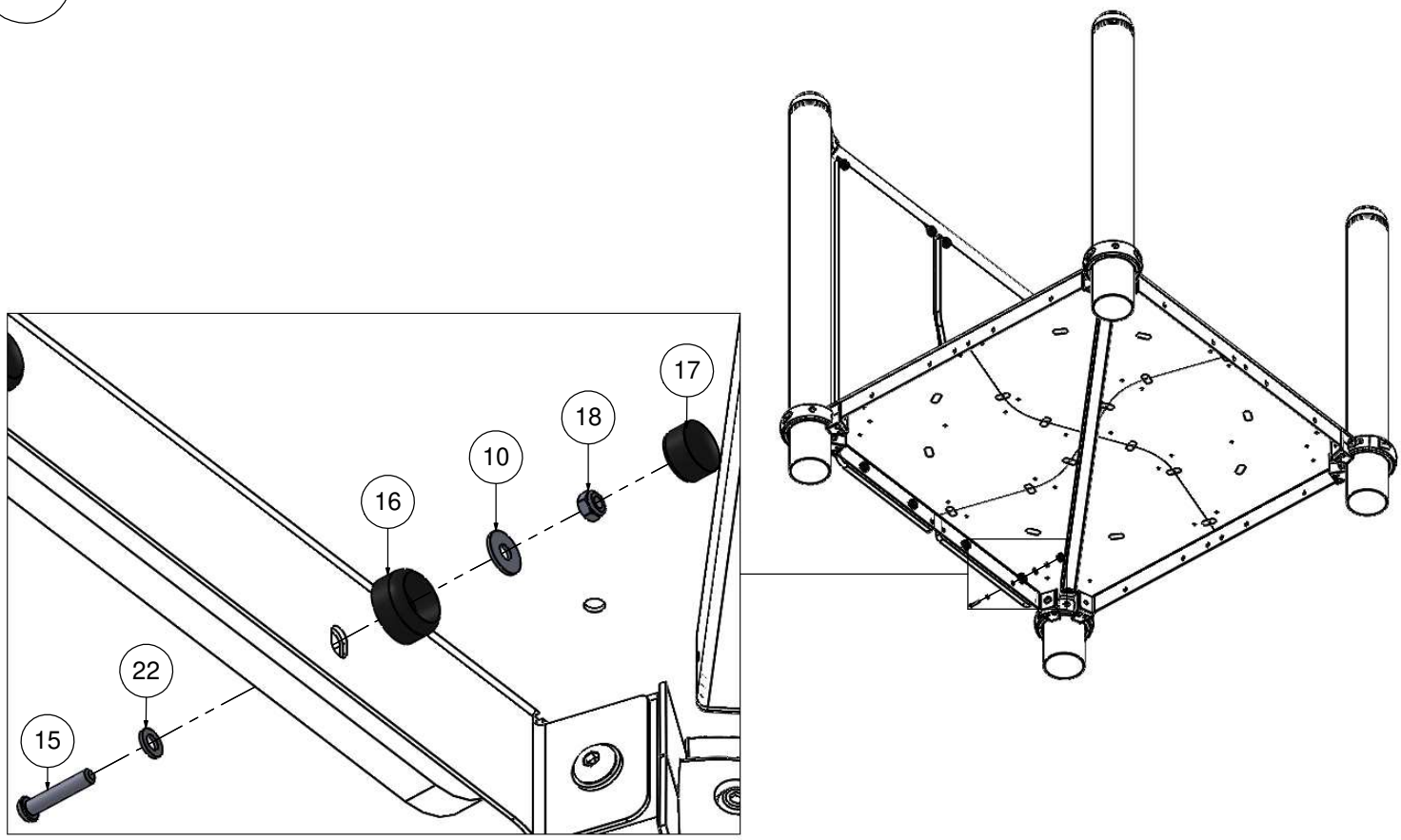
3



4

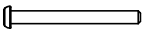


5

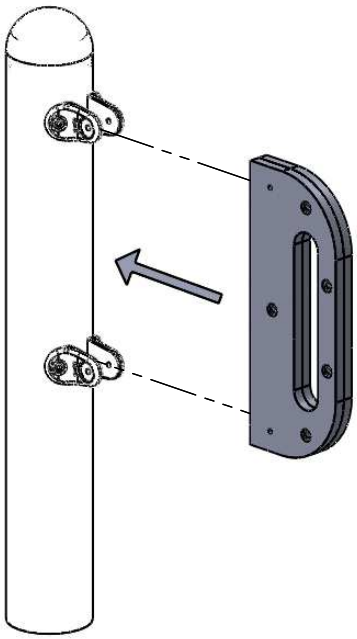


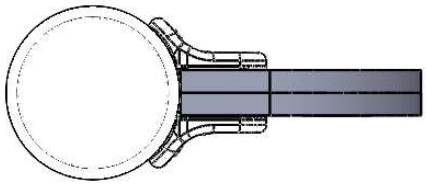
INST_12_54C 2/2

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

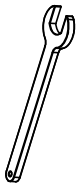
1





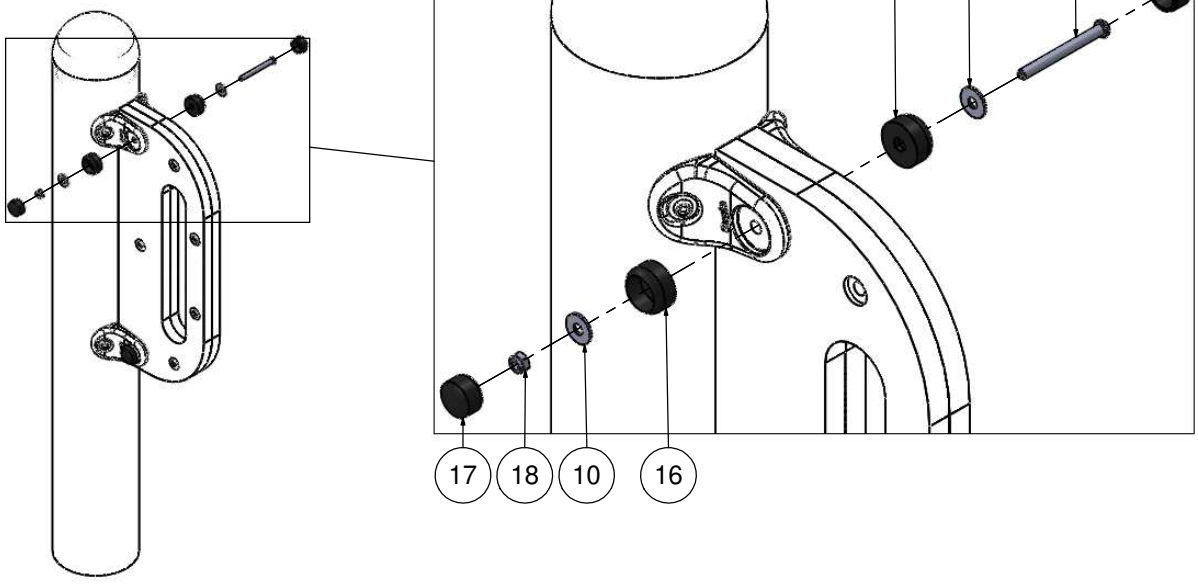


Nr. 4

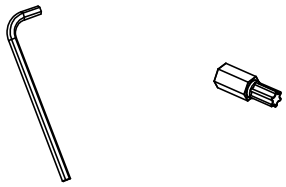


Nr. 10

2



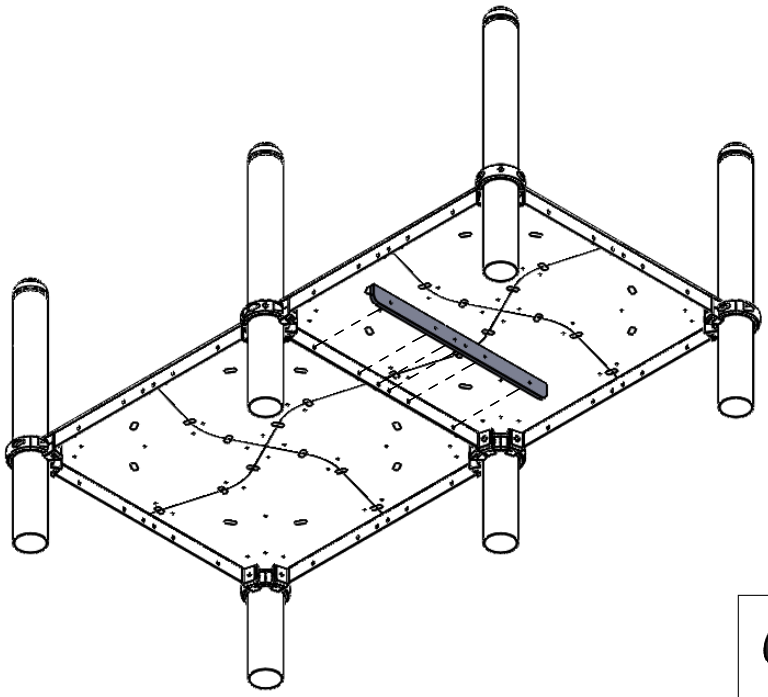
INST_12_61



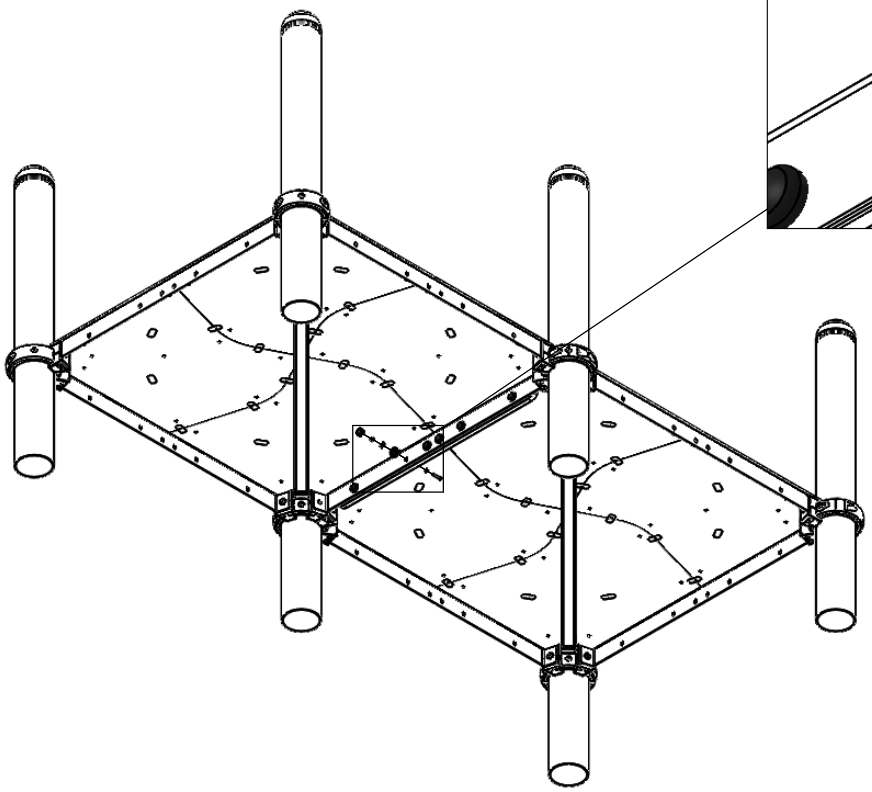
Nr. 4 Nr. T30

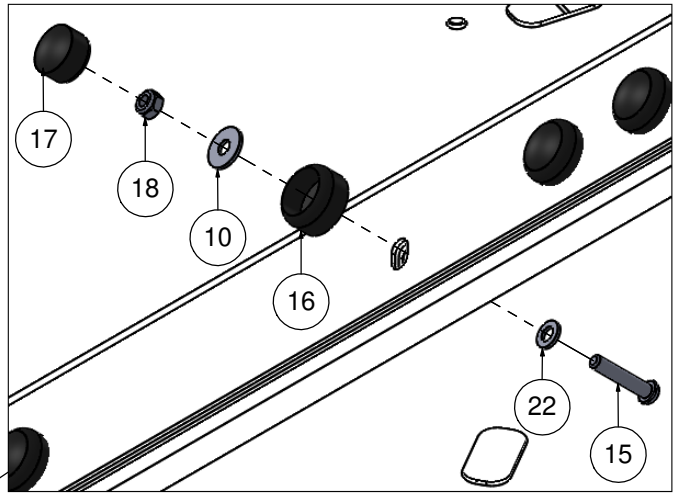
Nr	Σ	Element		
10	6		DIN 9021	6x18
15	6		ISO 7380	M6x30
16	6	⌀2,1	-	K1_d21_B
17	6	⌀2,1	-	Z1_d21_B
18	6		DIN 985	M6 (OC)
22	6		DIN 125	6x12
58	1		-	LOCTITE

1



2



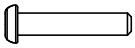


INST_12_65

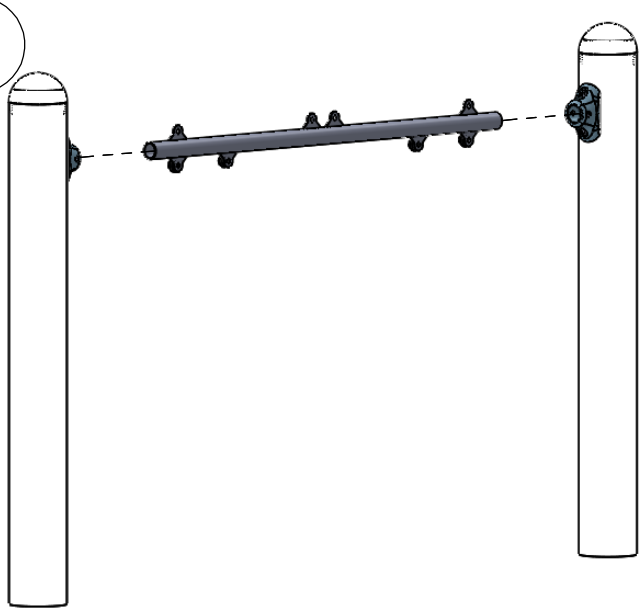


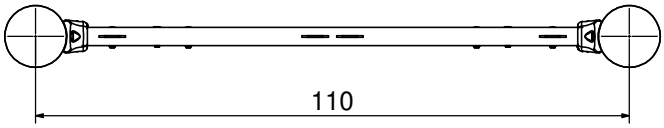


Nr. 4, 5 Nr. T30

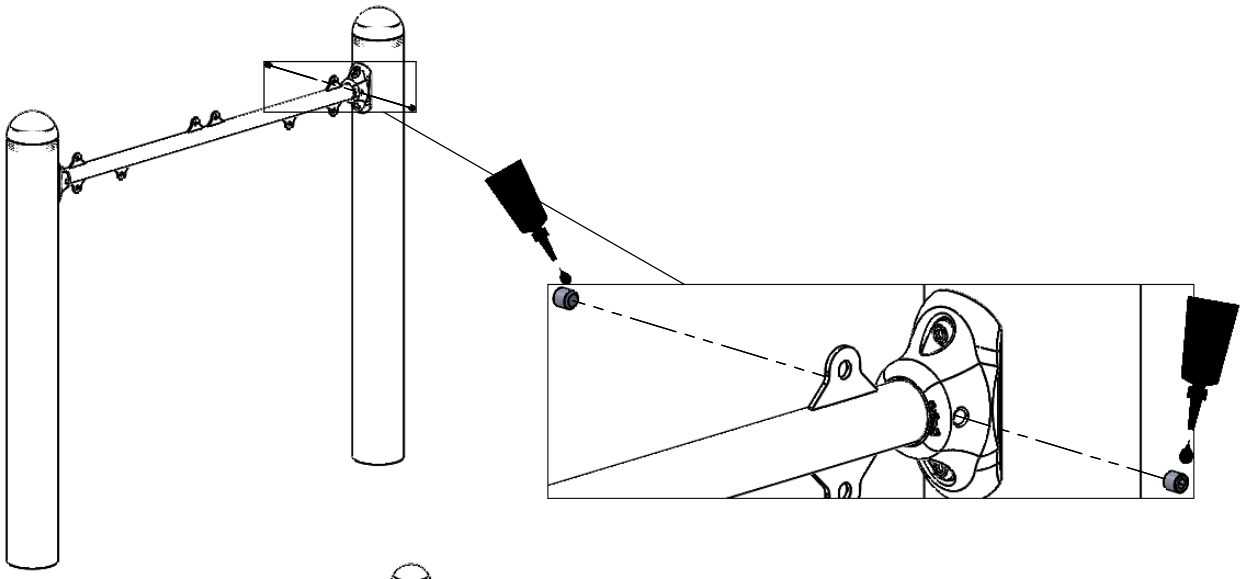
Nr	Σ	Element		
10	6		DIN 9021	6x18
15	6		ISO 7380	M6x30
16	6		-	K1_d21_B
17	6		-	Z1_d21_B
18	6		DIN 985	M6 (OC)
22	6		DIN 125	6x12
58	1		-	LOCTITE

1

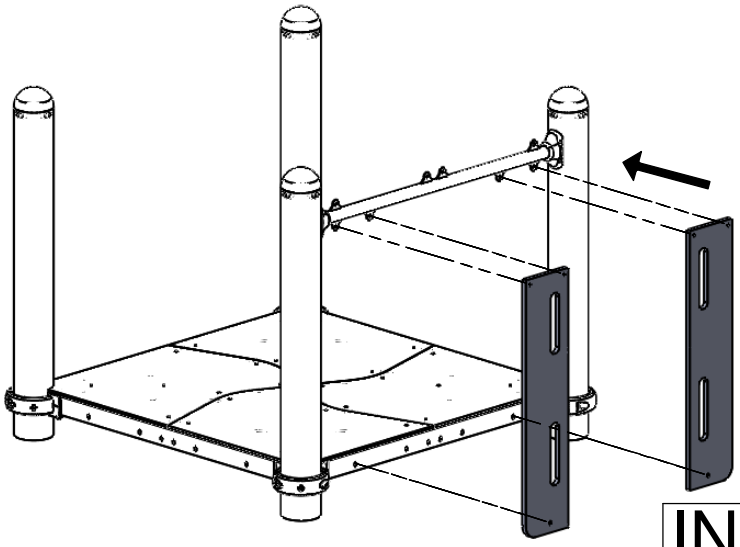




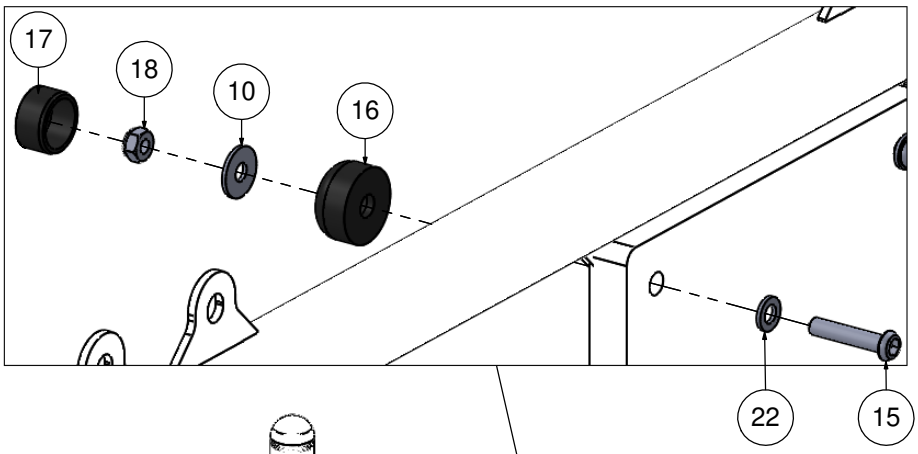
2

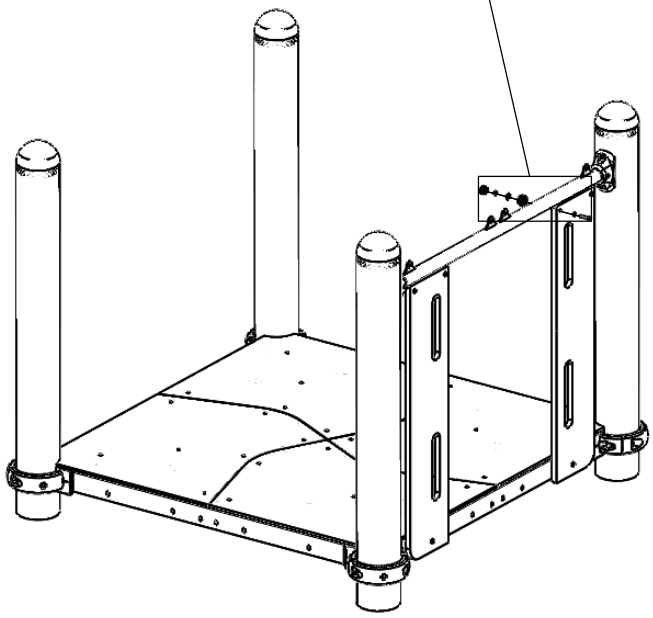


3

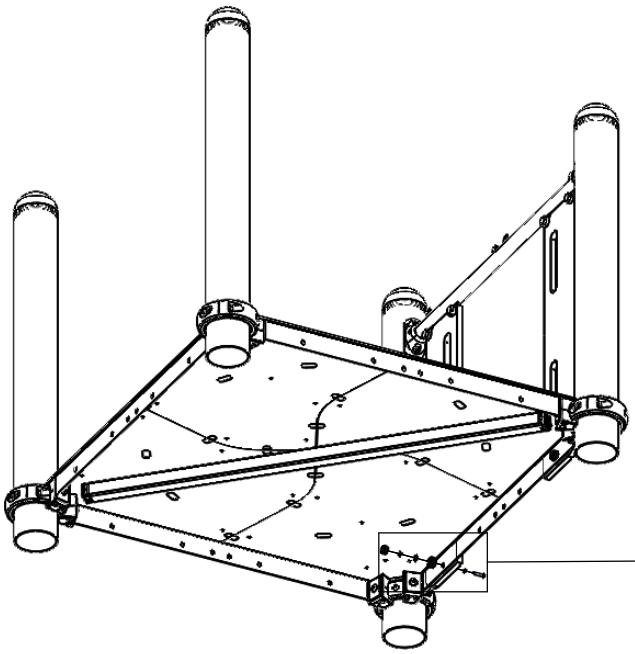


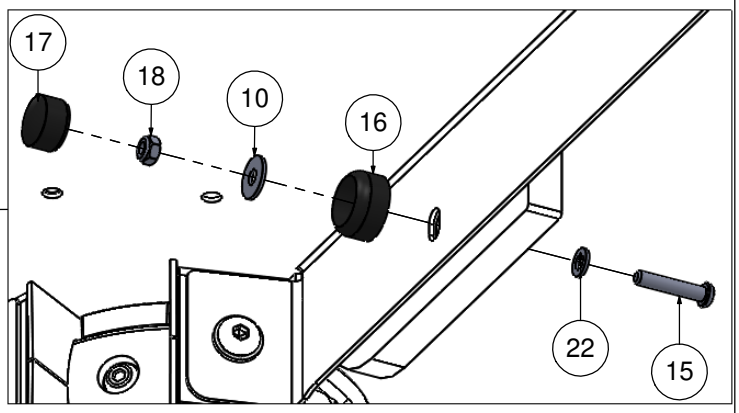
4





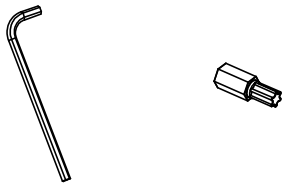
5





INST_12_65 2/2

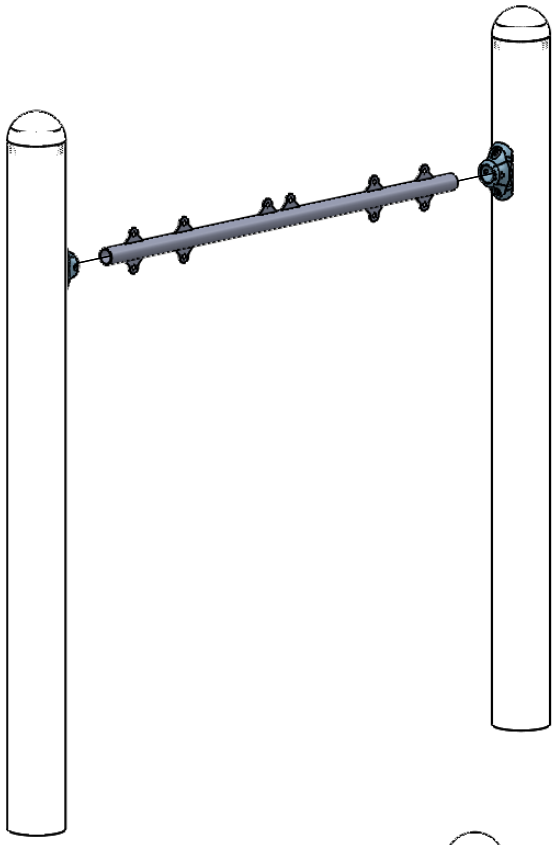
INST_12_69

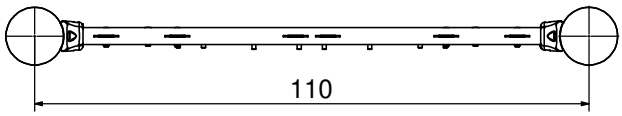


Nr. 4, 5 Nr. T30

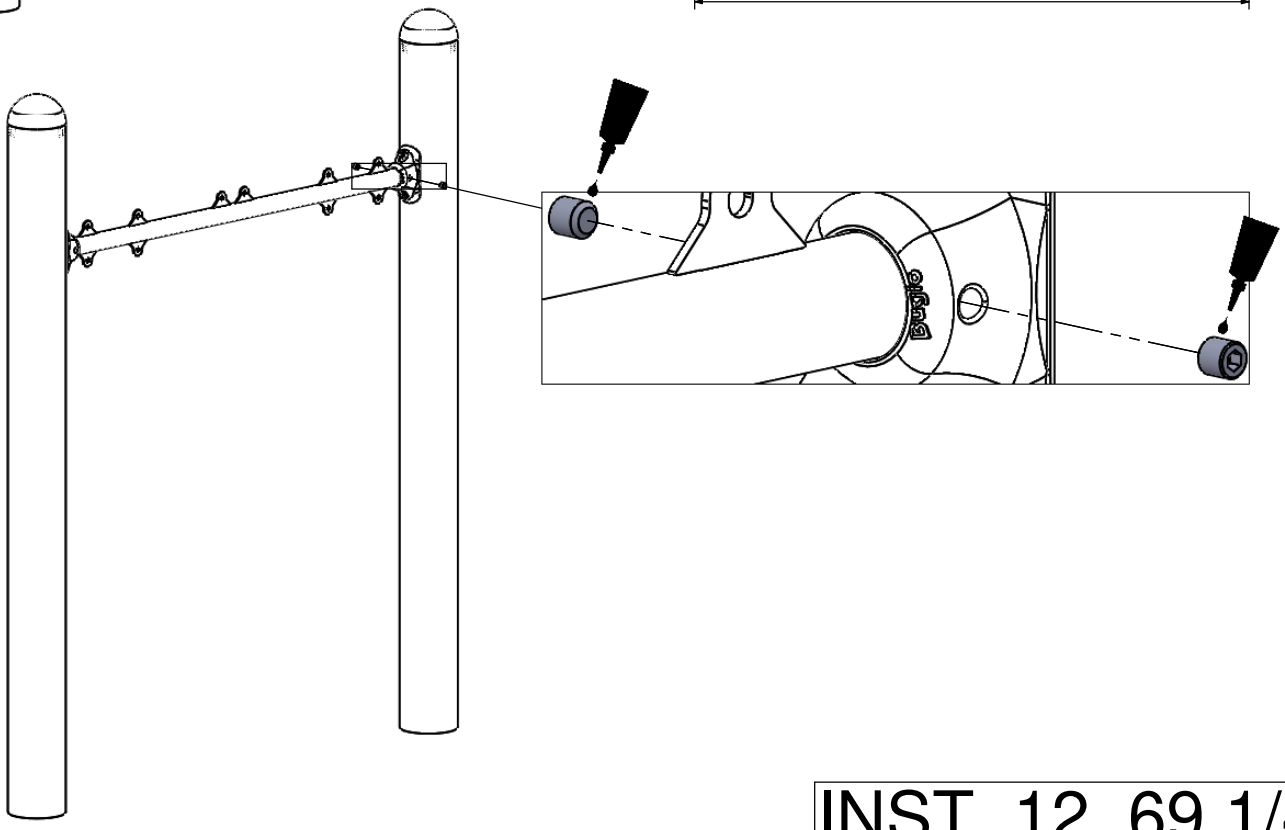
Nr	Σ	Element		
10	6		DIN 9021	6x18
15	6		ISO 7380	M6x30
16	6	ϕ2,1	-	K1_d21_B
17	6	ϕ2,1	-	Z1_d21_B
18	6		DIN 985	M6 (OC)
21	4		DIN 125	8x16
22	6		DIN 125	6x12
28	4		ISO 7380	M8x25
45	4		ISO 7380	M8x30
58	1		-	LOCTITE
218	4		NYLON DIN 125	8x16

1

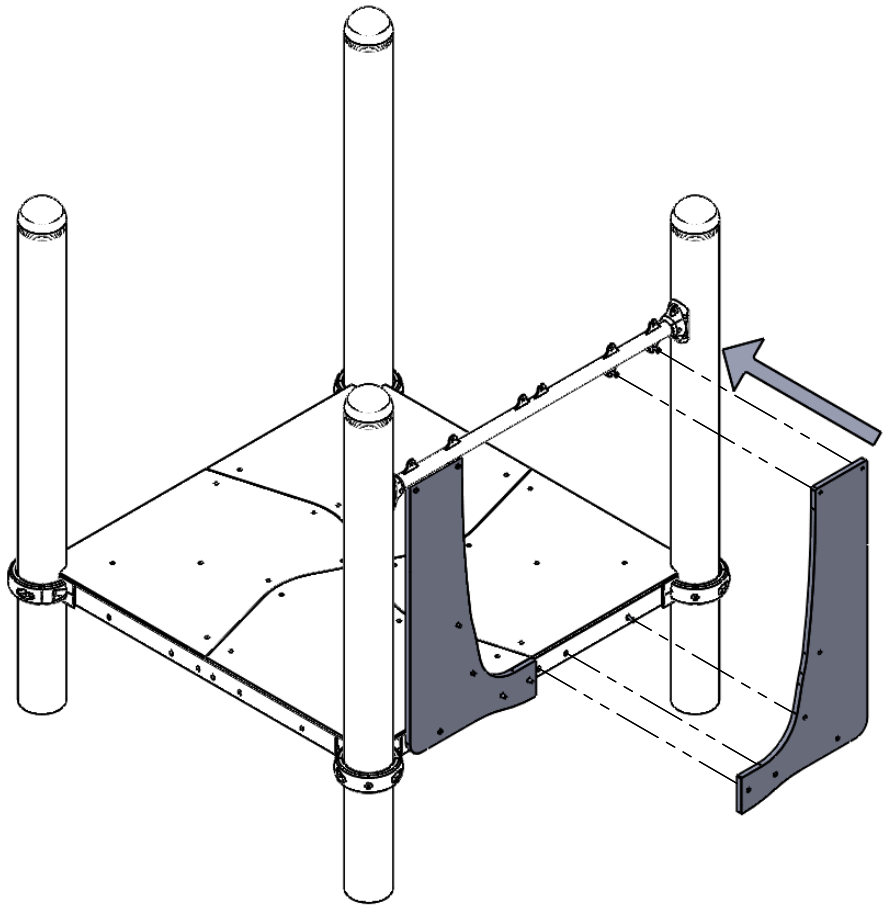




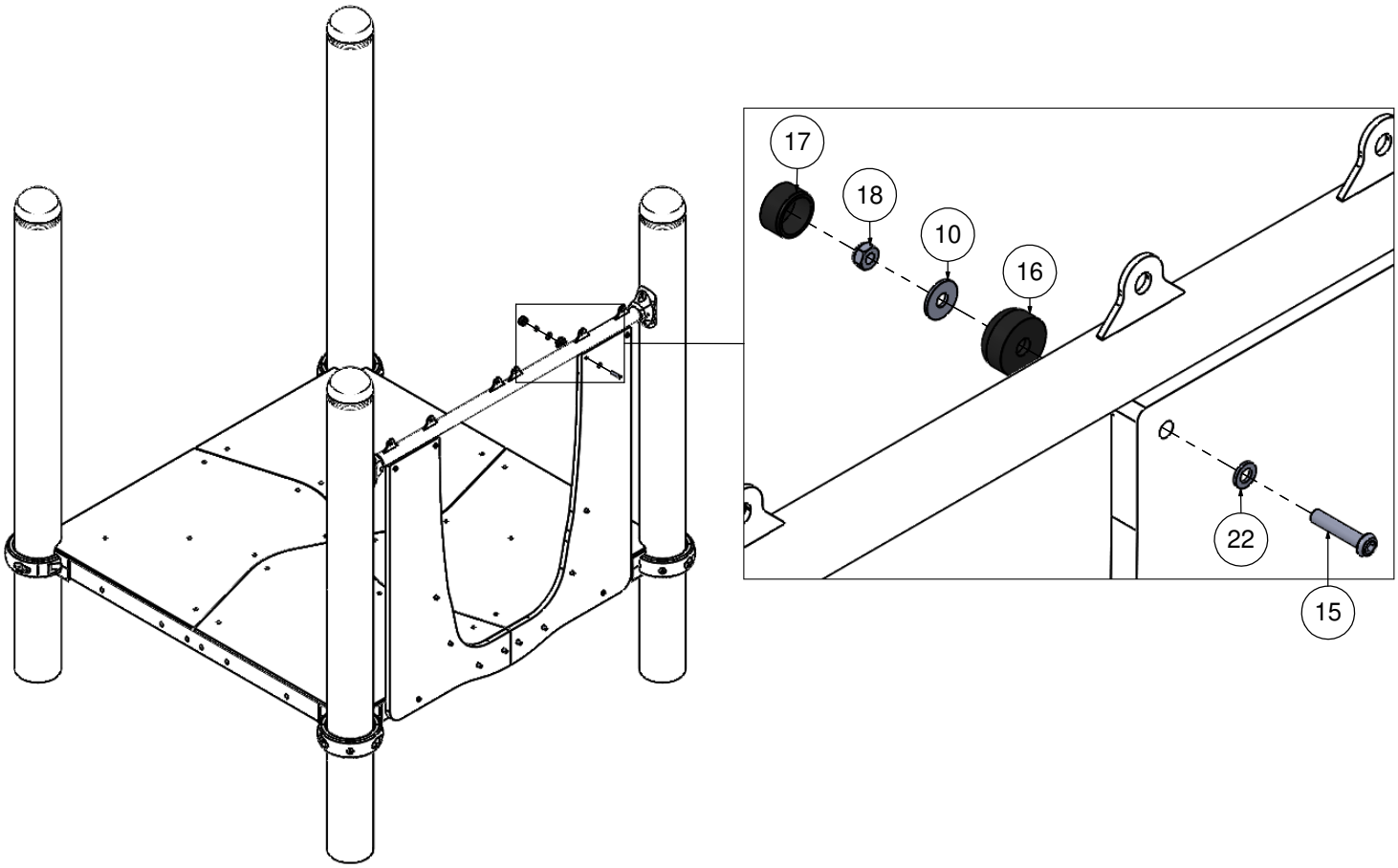
2



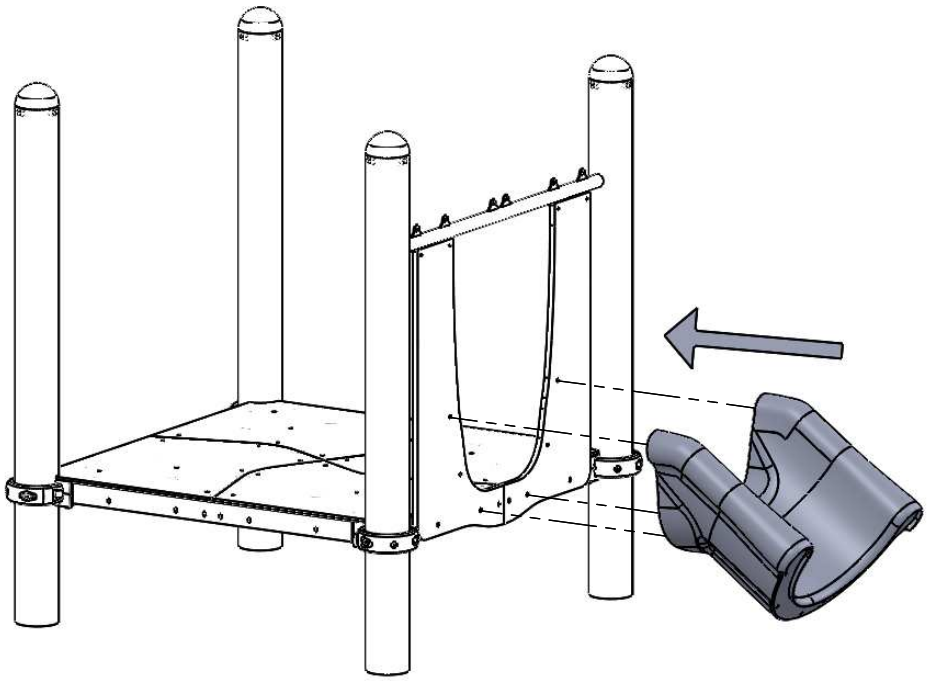
3



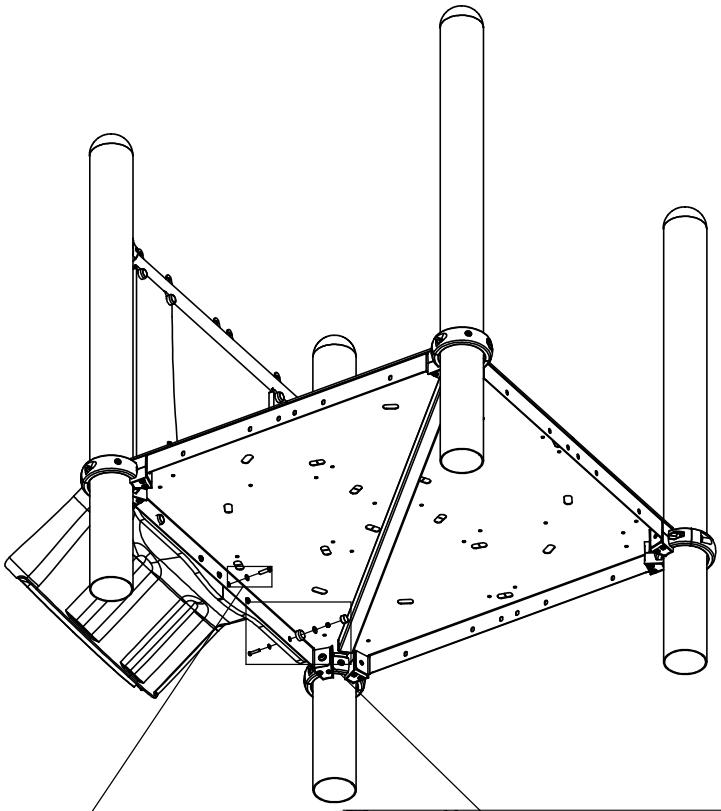
4

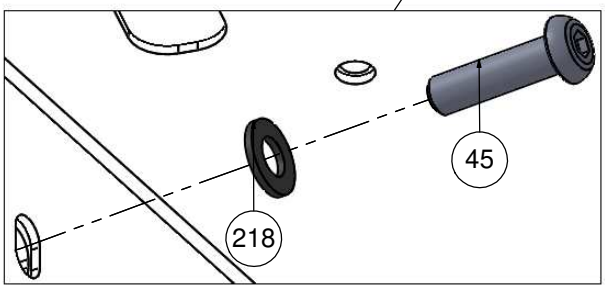


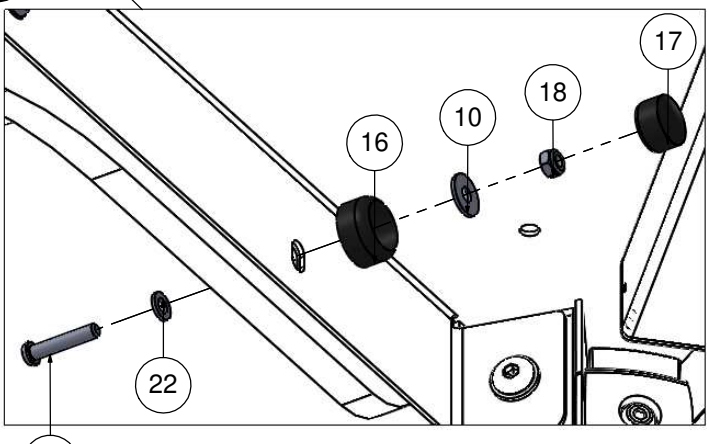
5



6

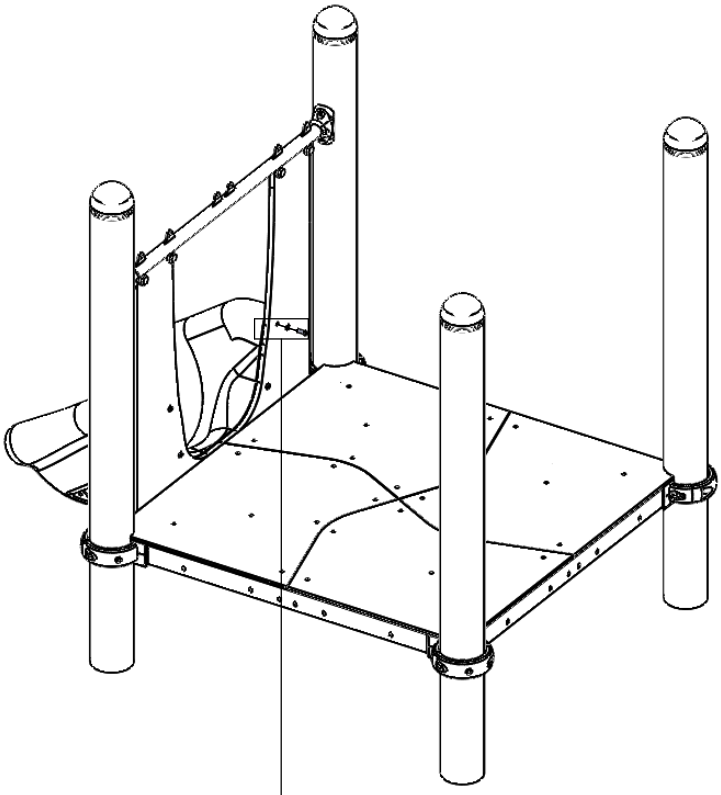


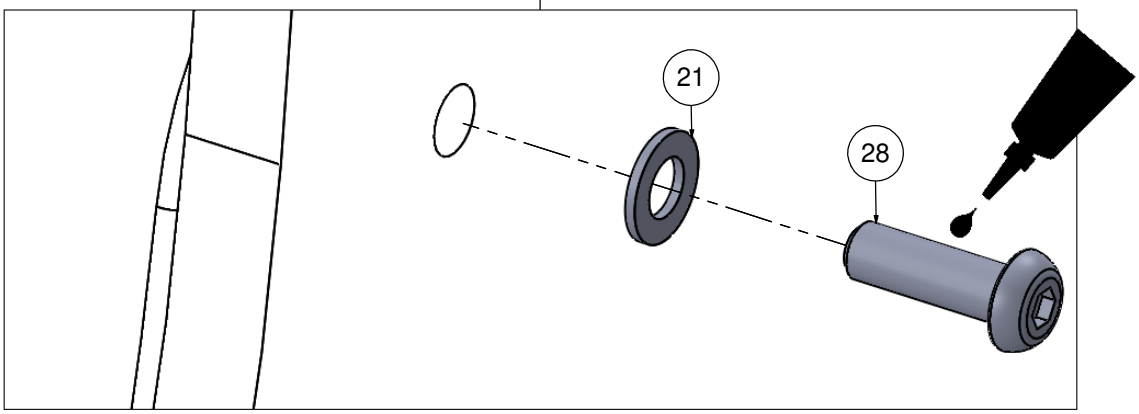




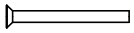
INST_12_69 3/4

7

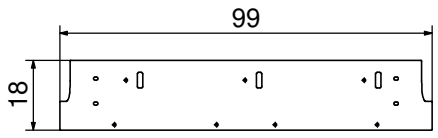


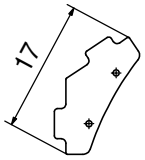


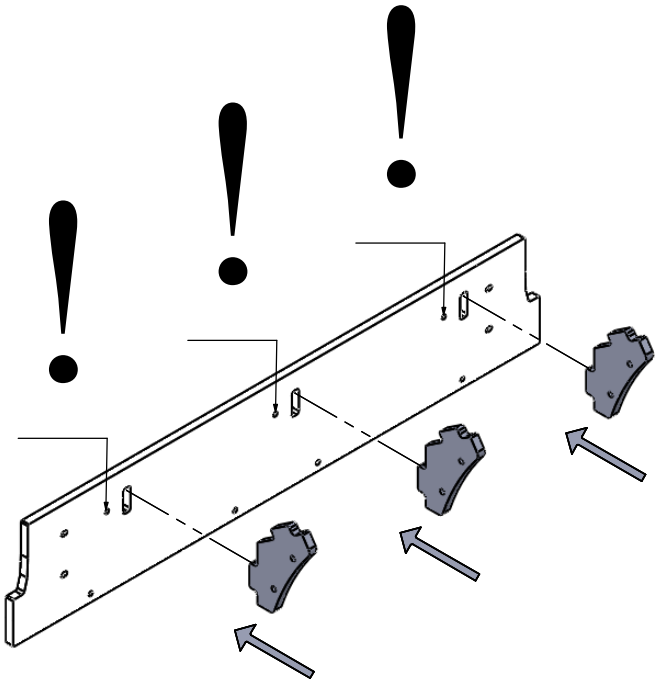
INST_12_87

Nr	Σ	Element	DIN	ELEMENT
5	4		DIN 985	M10
14	24		ISO 7380	M6x12
21	40		DIN 125	8x16
22	32		DIN 125	6x12
24	8		ISO 7380	M6x16
29	12		-	K_5_A2_g2_G_v2
44	4		ISO 7380	M10x25
58	1		-	LOCTITE
147	40		-	M6x10
242	4		-	1200_1_A2_g3_G_v3
243	8		-	UCHW_114,3
245	8		DIN 7991	M6x65
249	4		NYLON DIN 125	10x20
271	4		-	1200_25_A2_g3_G_v1

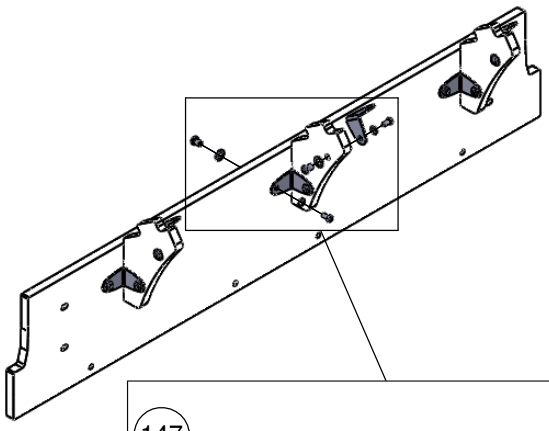
1

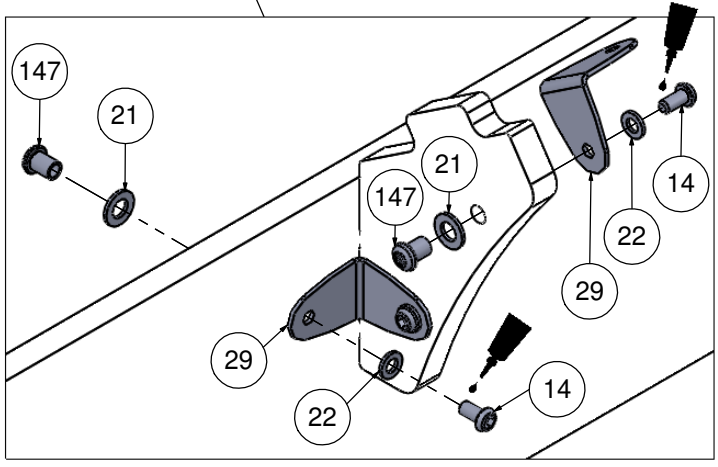






2



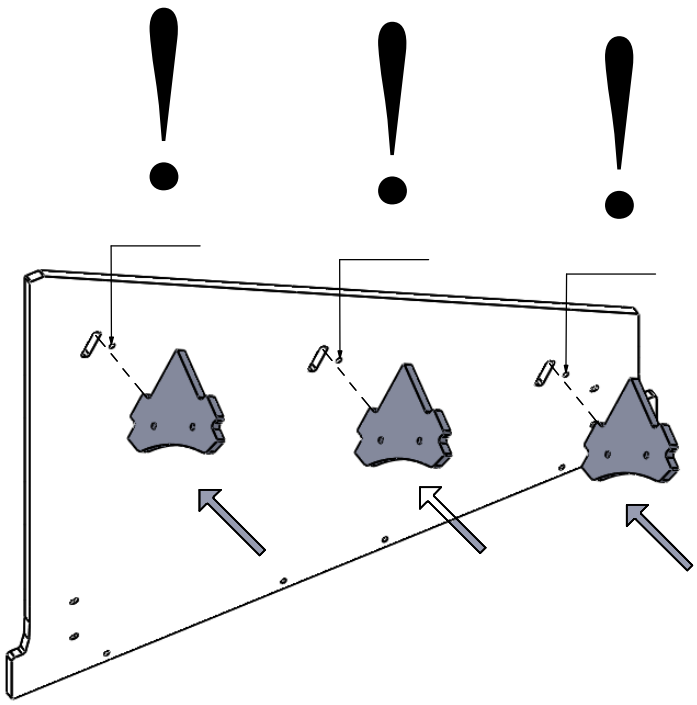


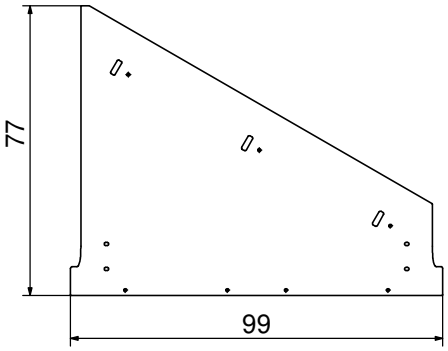


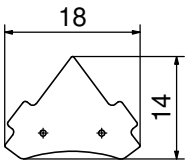


Nr. T30 Nr. 4, 6

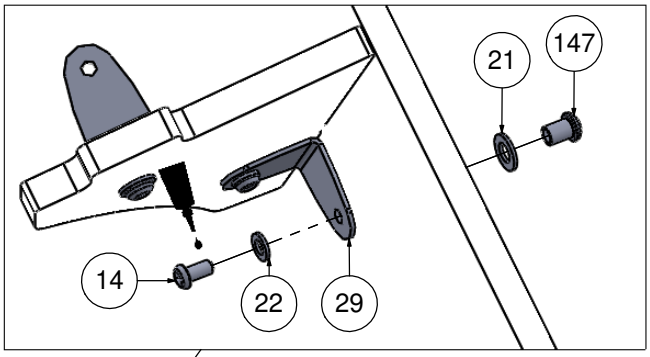
3

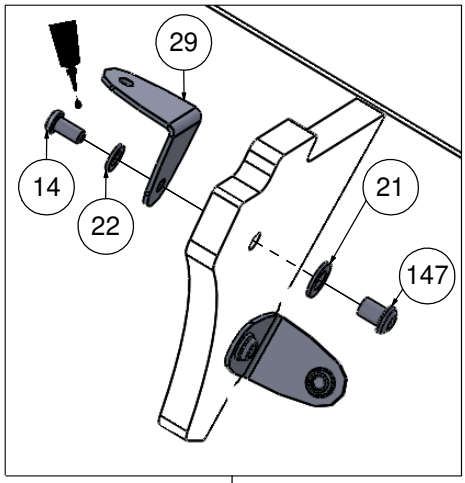


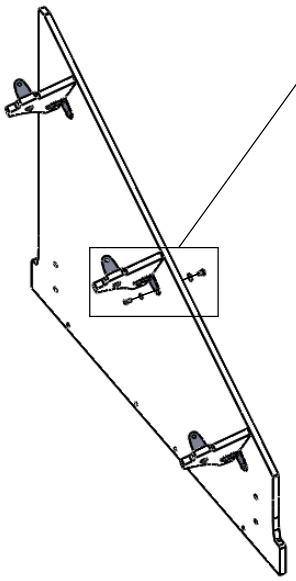


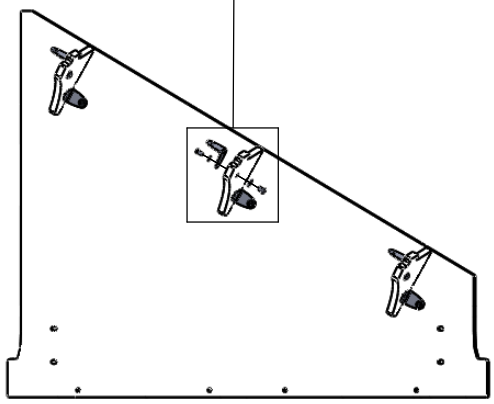


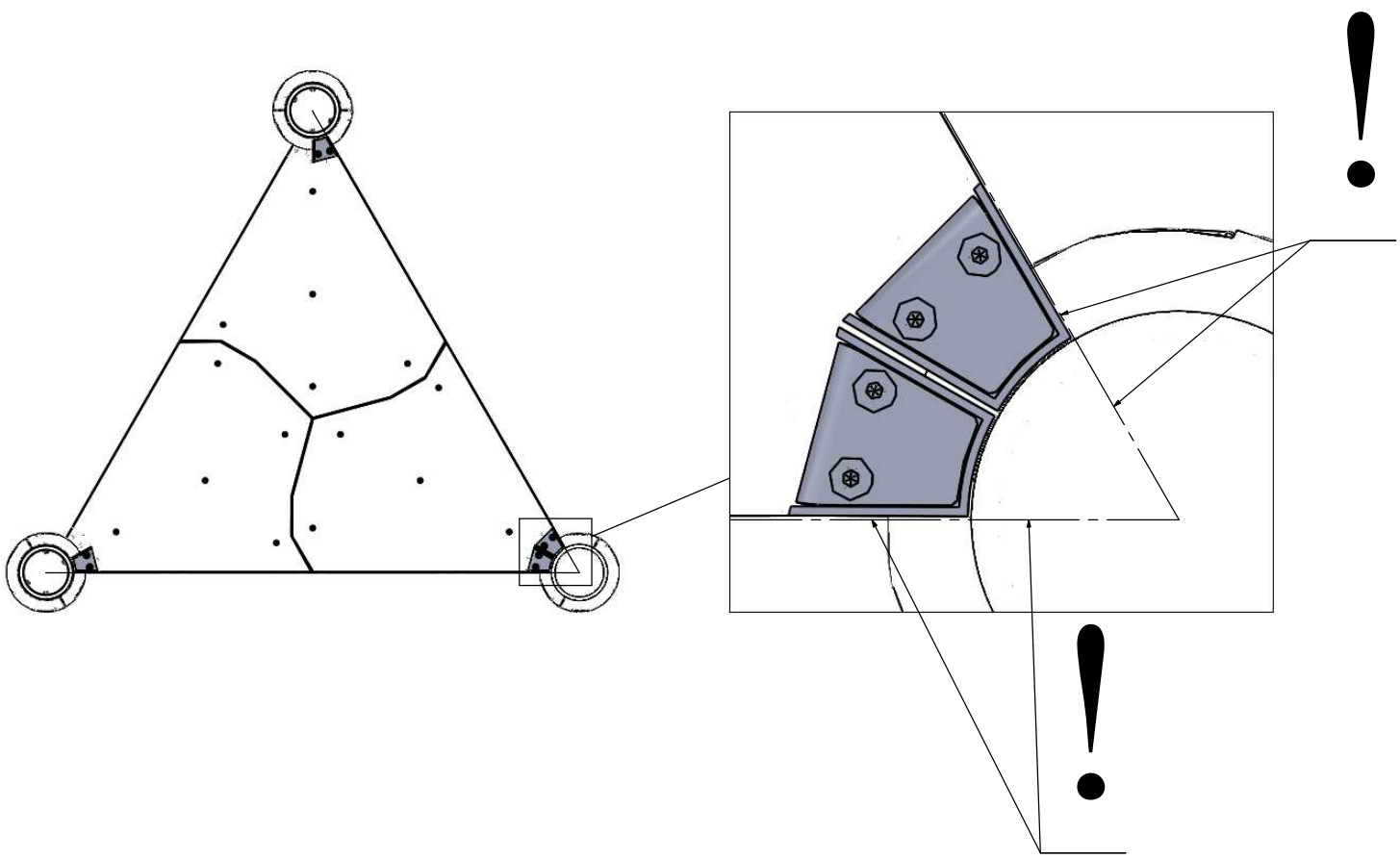
4



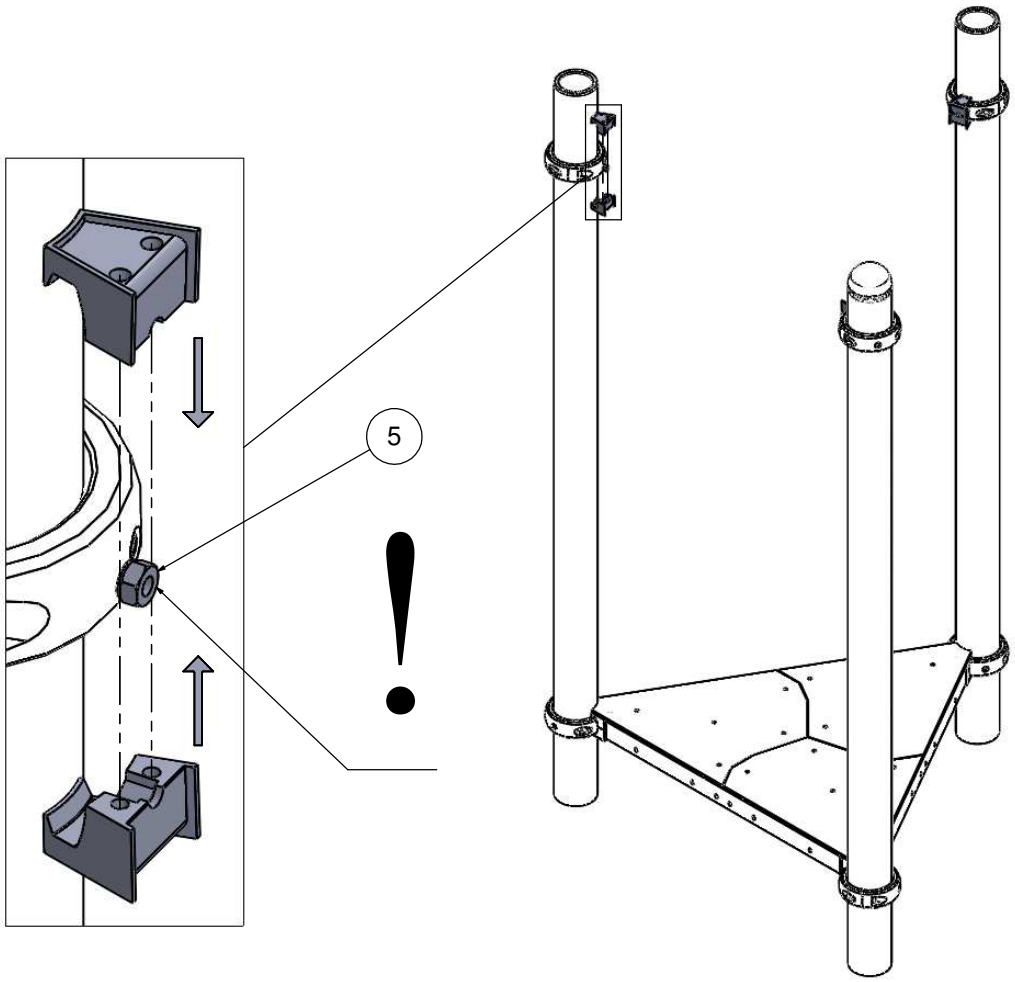




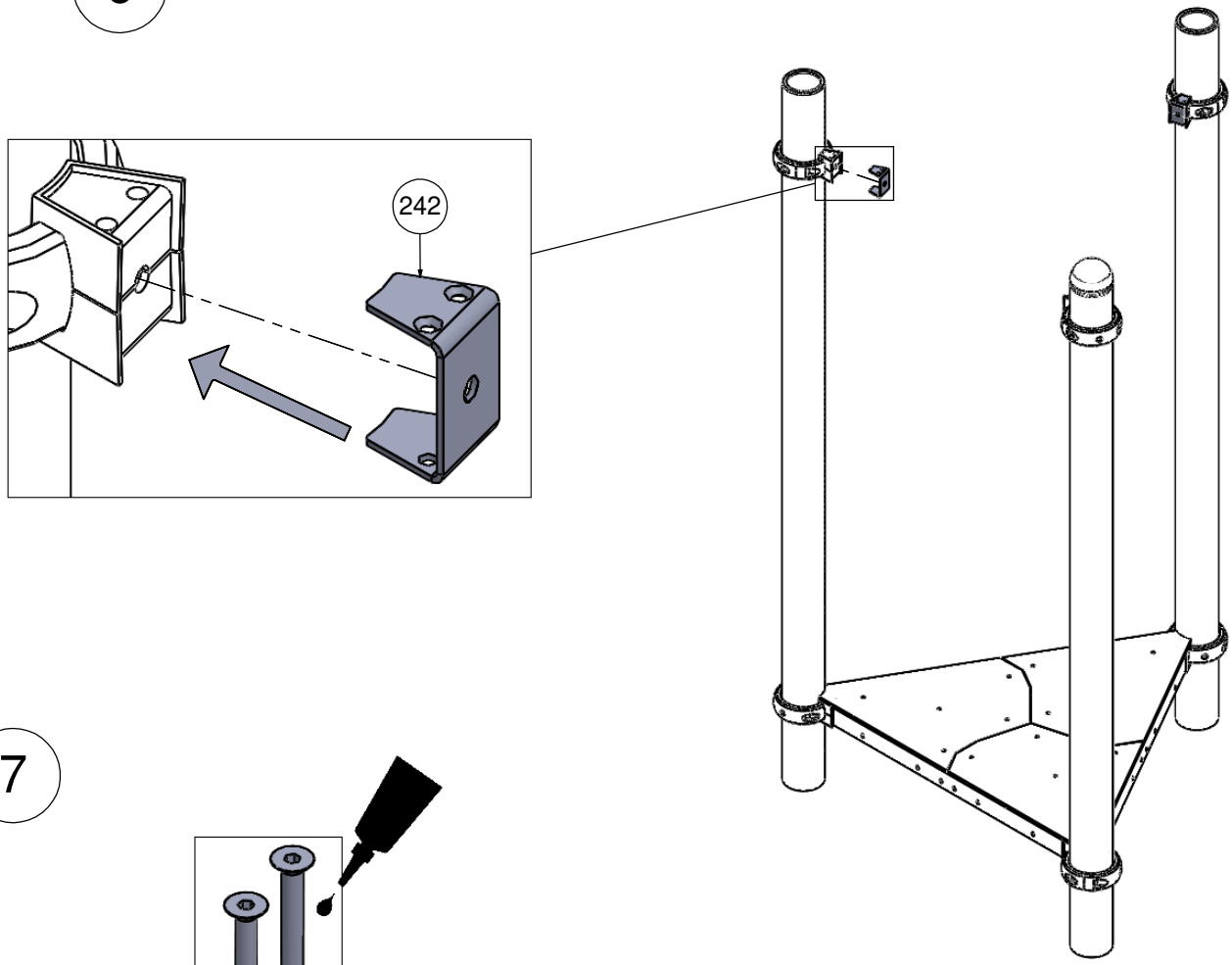




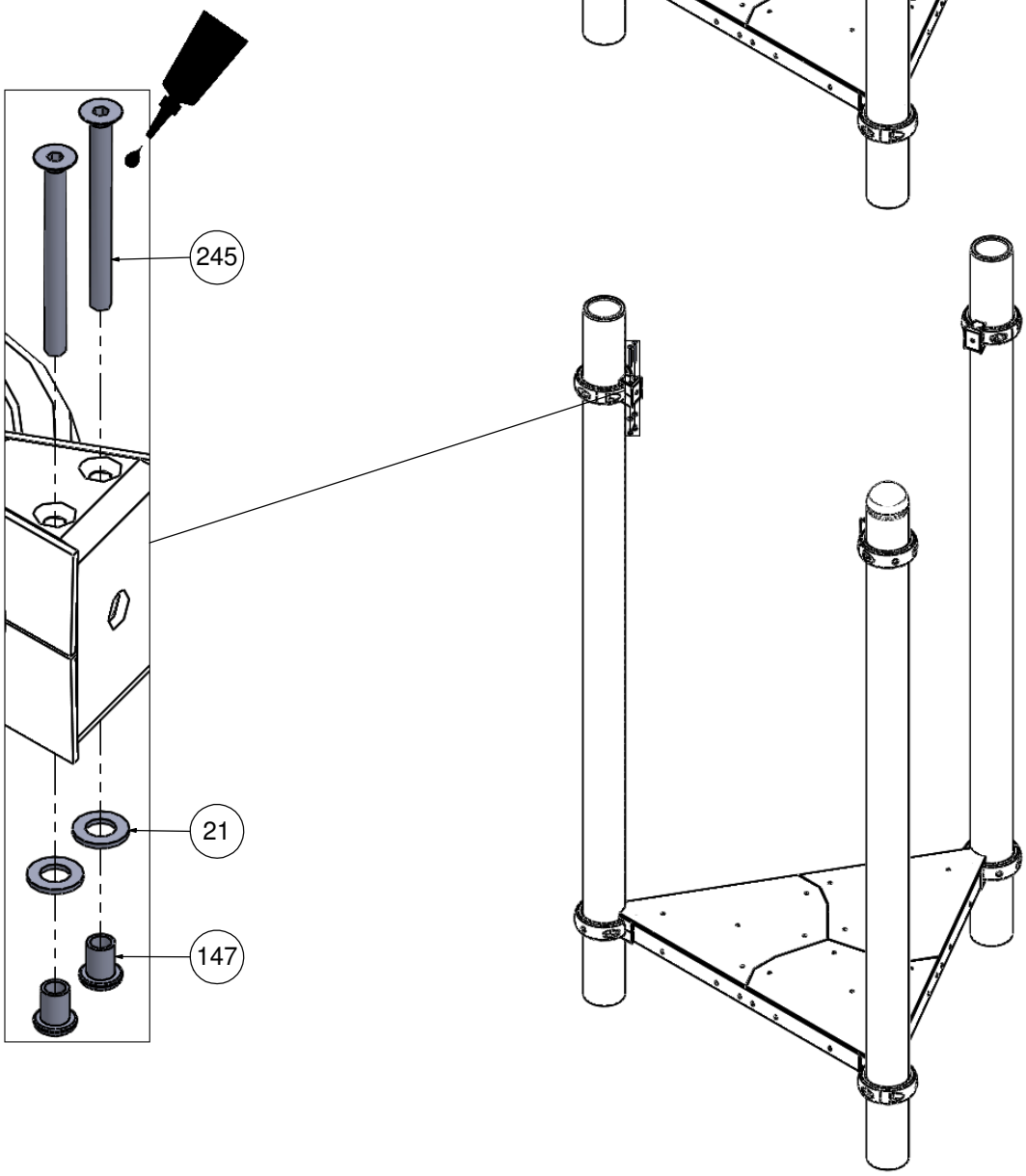
5



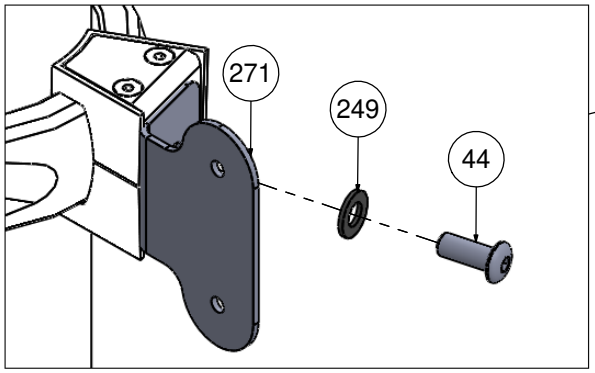
6

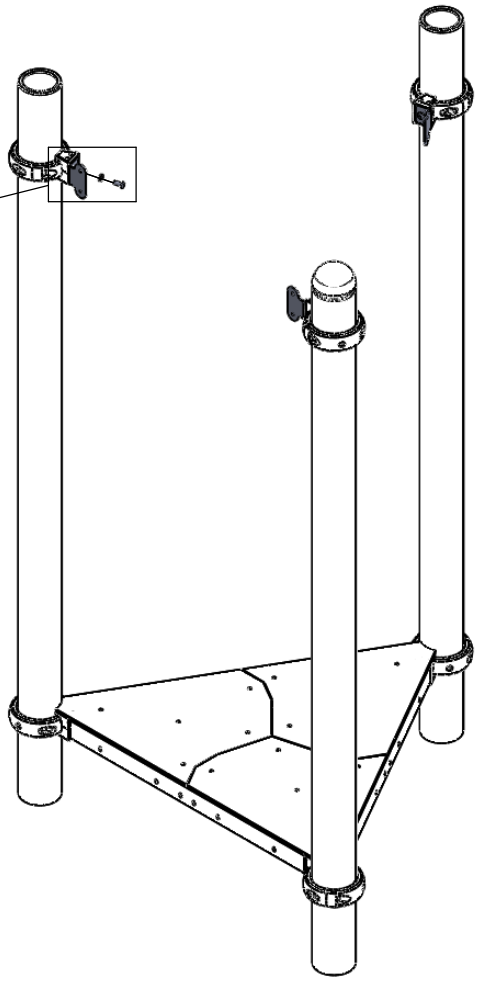


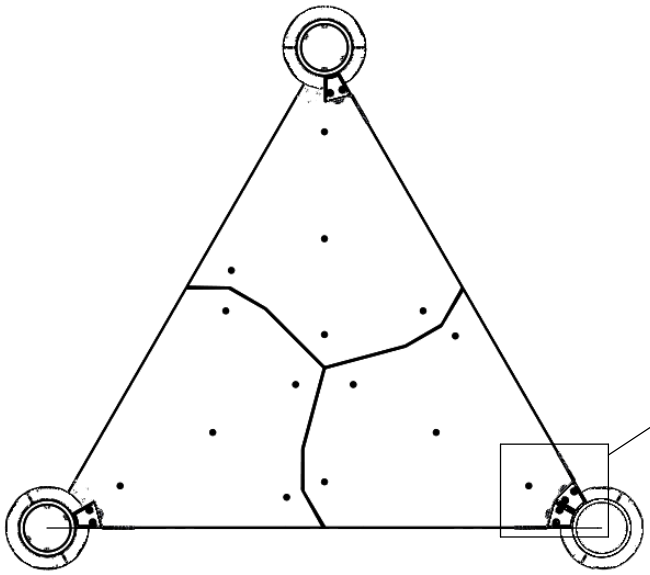
7

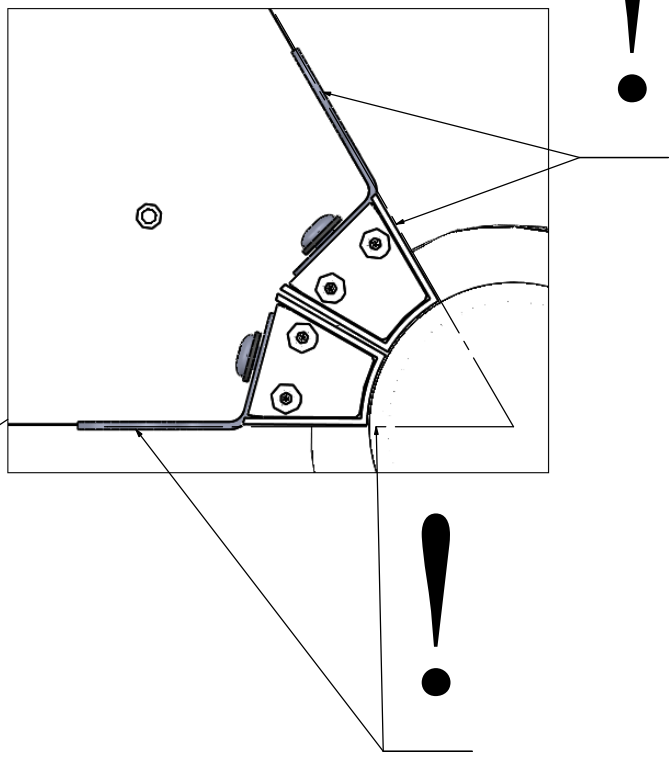


8

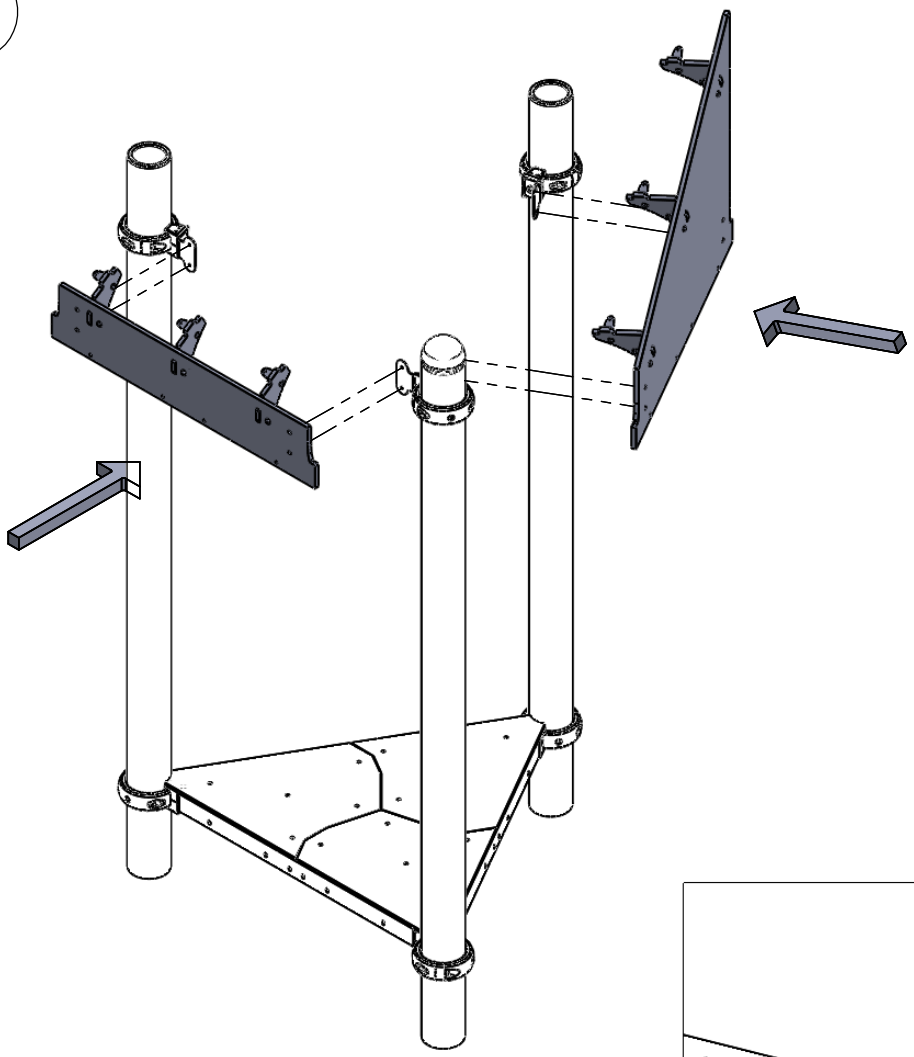


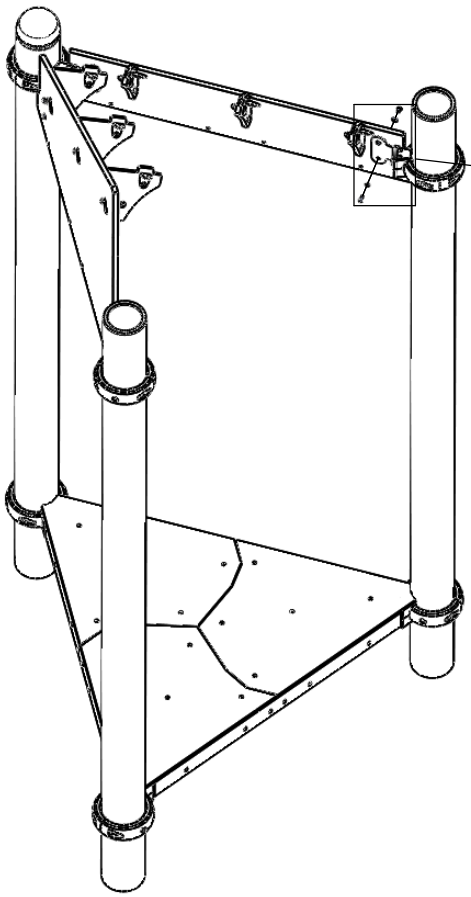


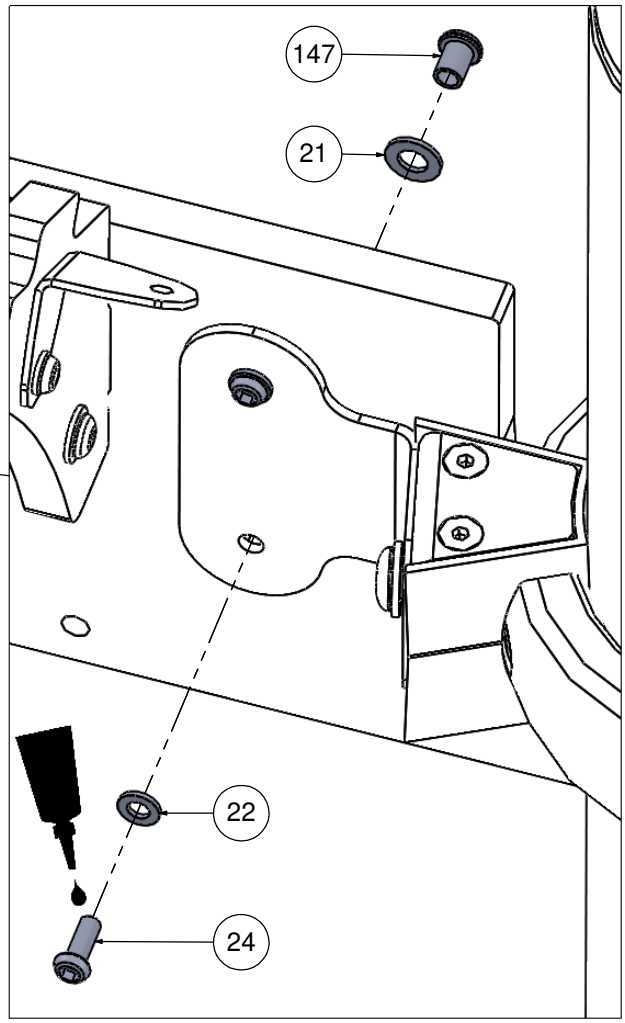




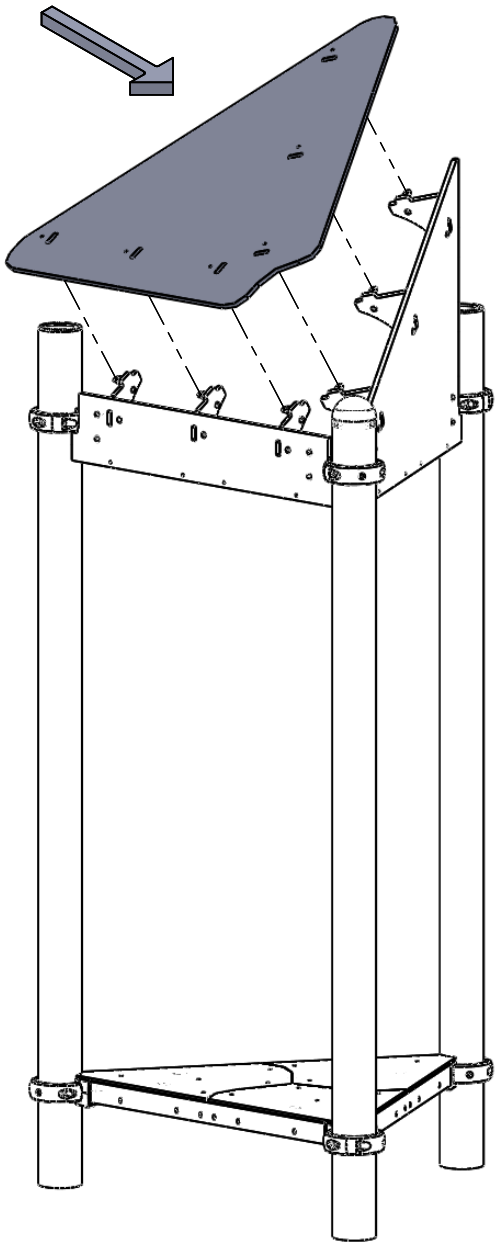
9

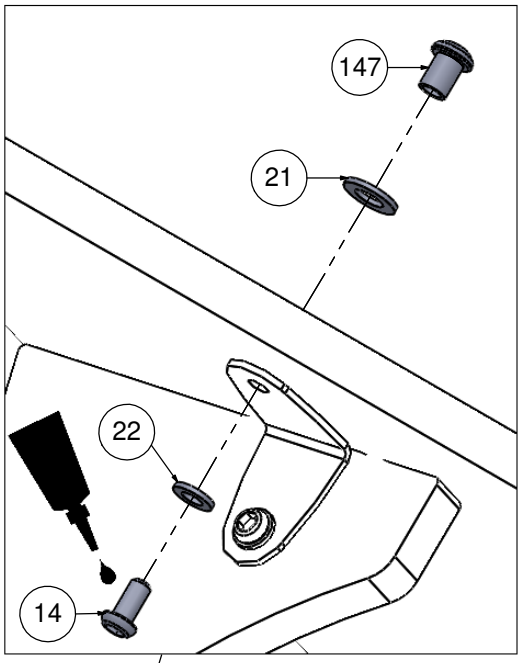


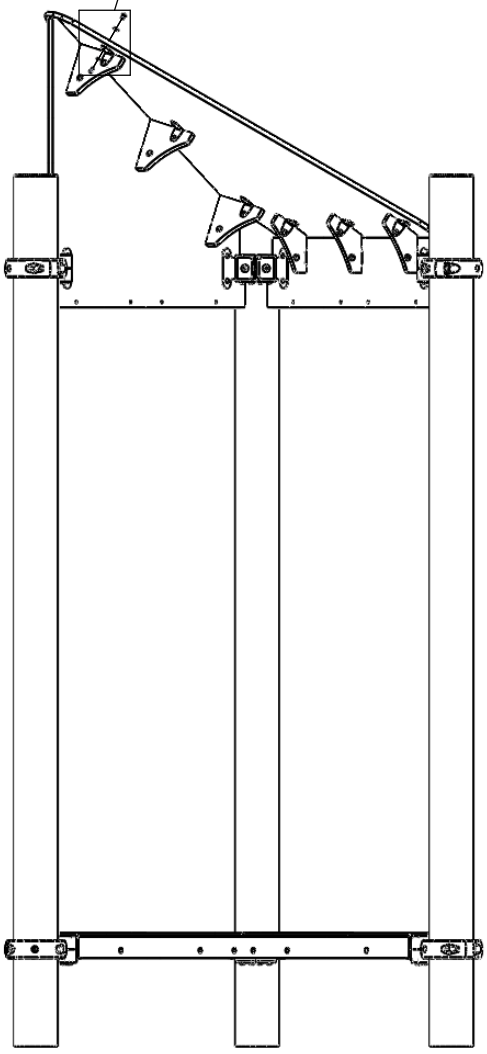




10





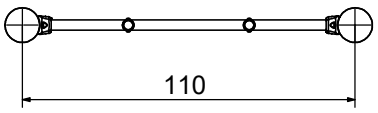


INST_12_88

Nr	Σ	Element		
58	1		-	LOCTITE



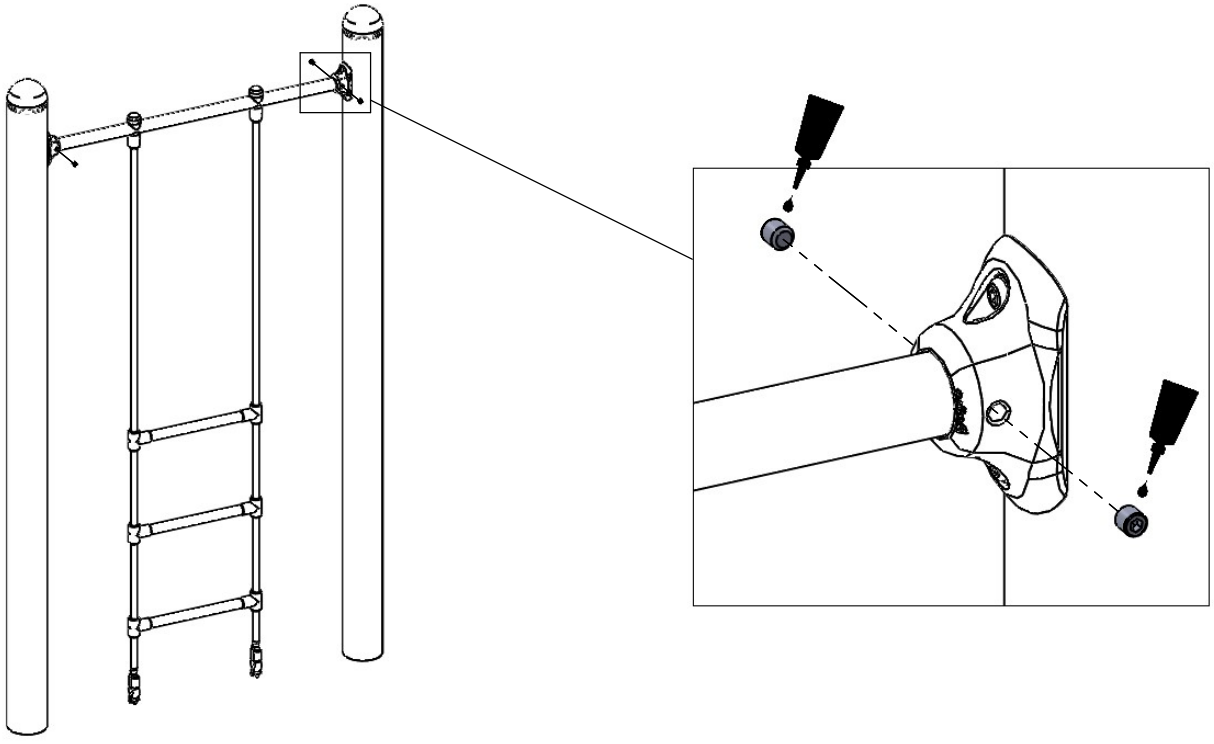
Nr. 5



1

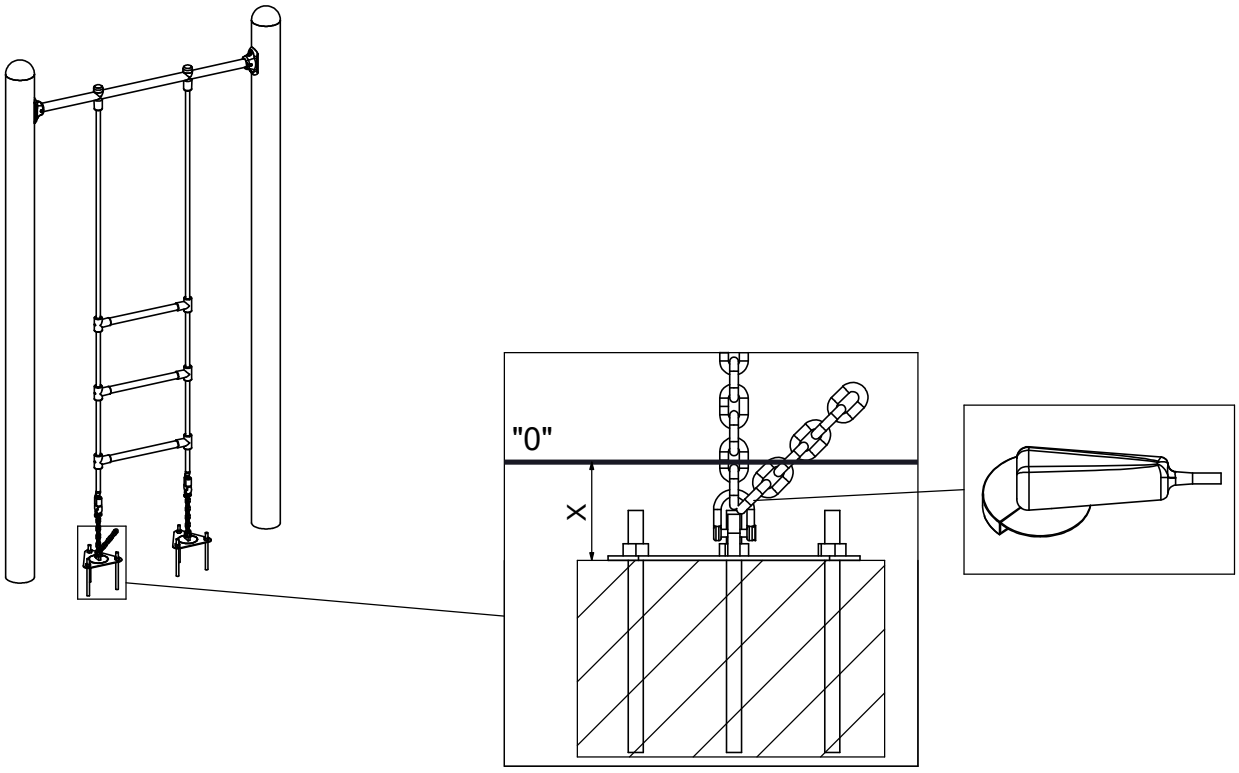


2



3

Nr	Σ	Element		
61	6		-	KL105

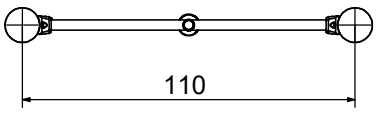


INST_12_89

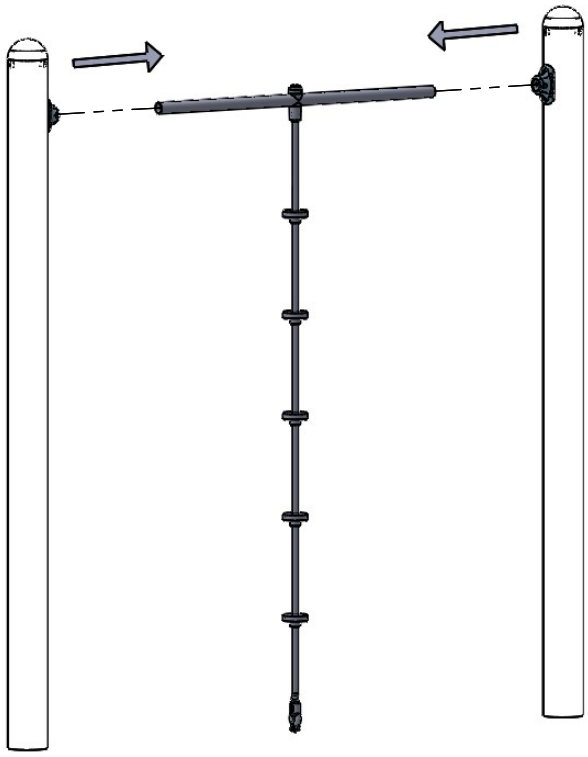
Nr	Σ	Element		
58	1		-	LOCTITE



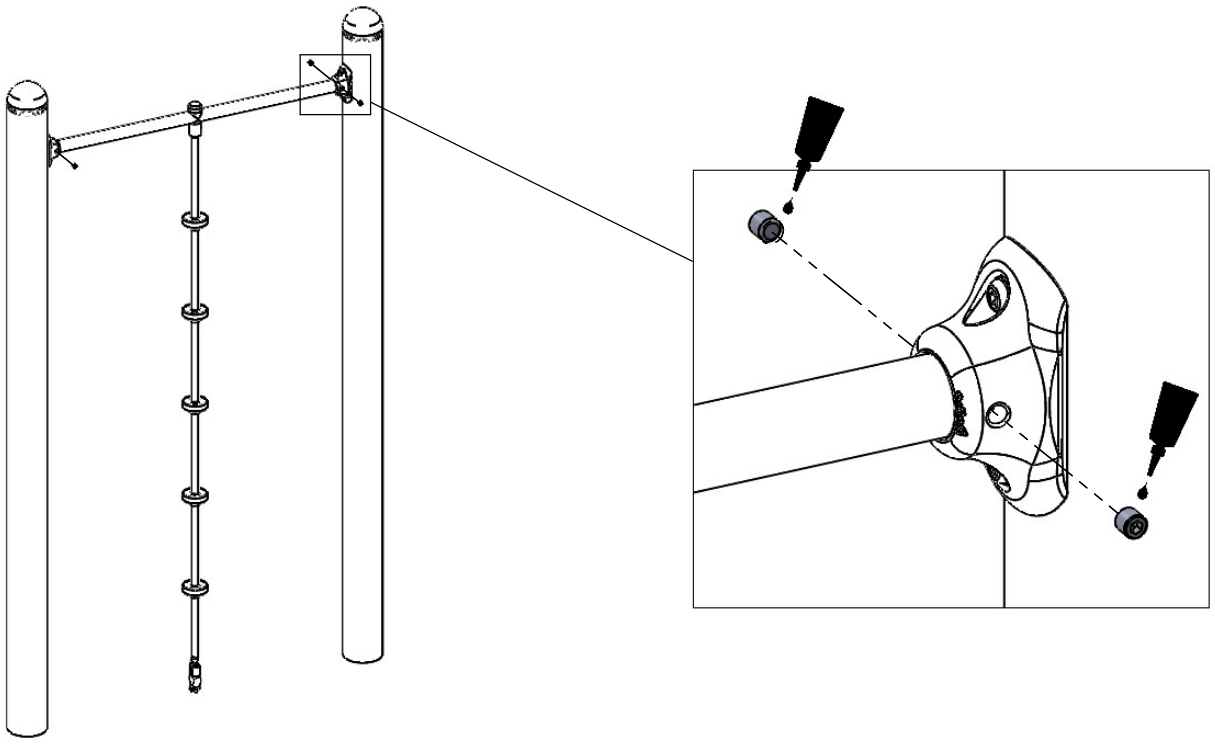
Nr. 5



1

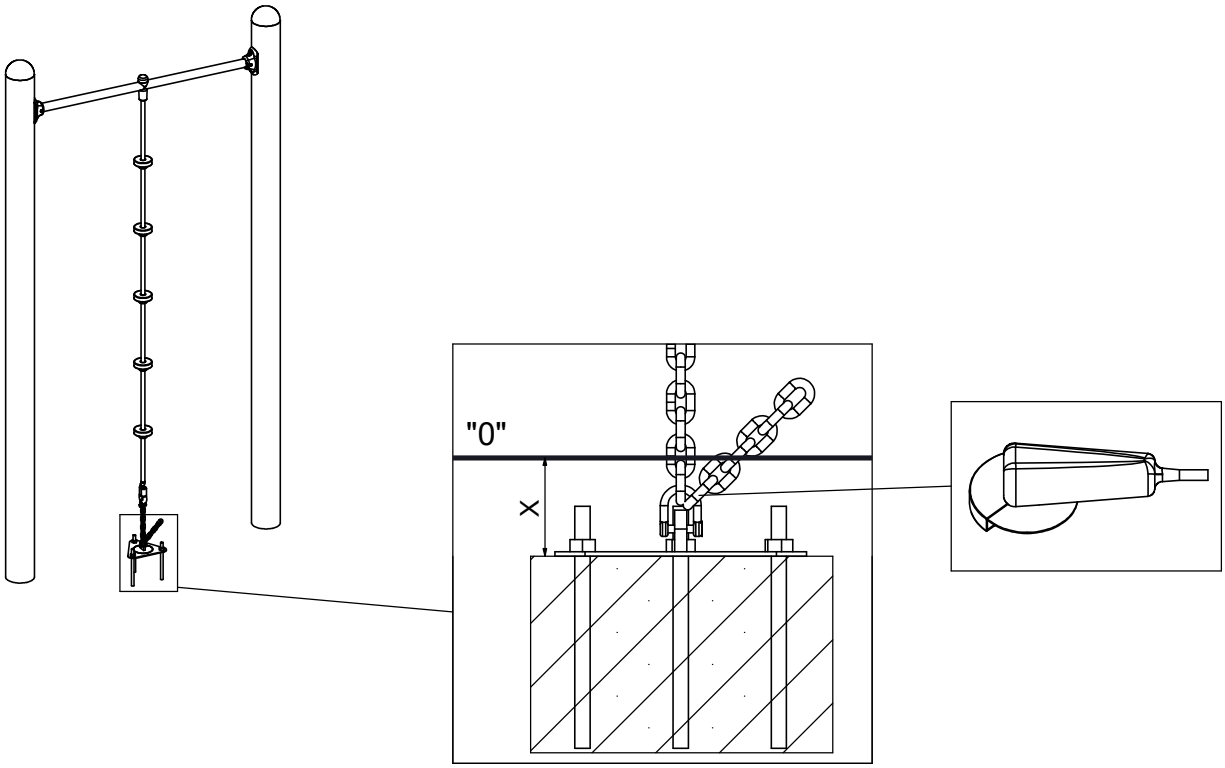


2

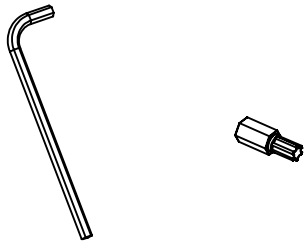


3

Nr	Σ	Element		
61	3		-	KL105



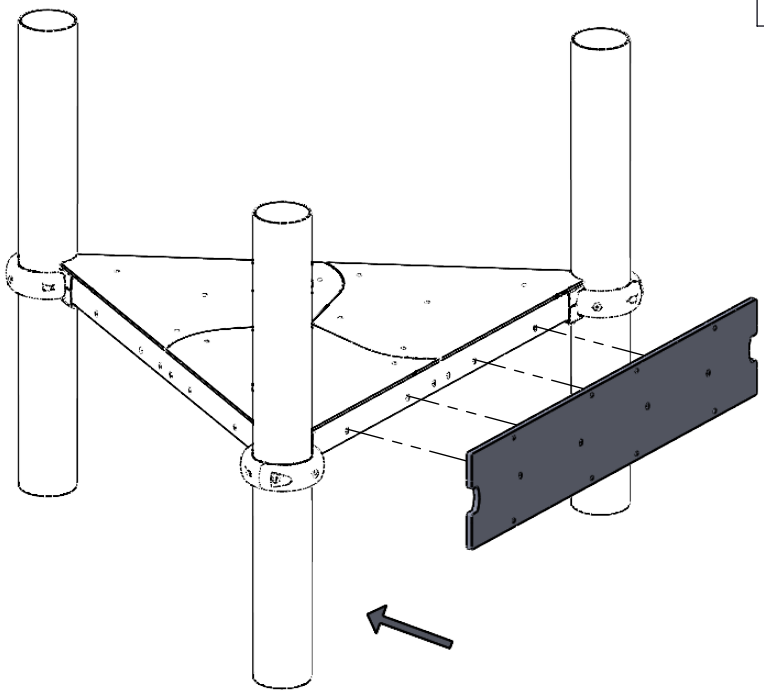
INST_12_90A

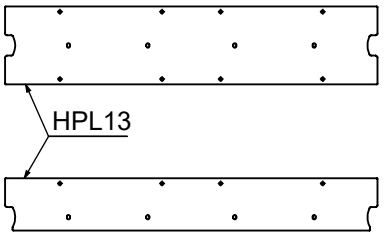


Nr. 4 Nr. T30

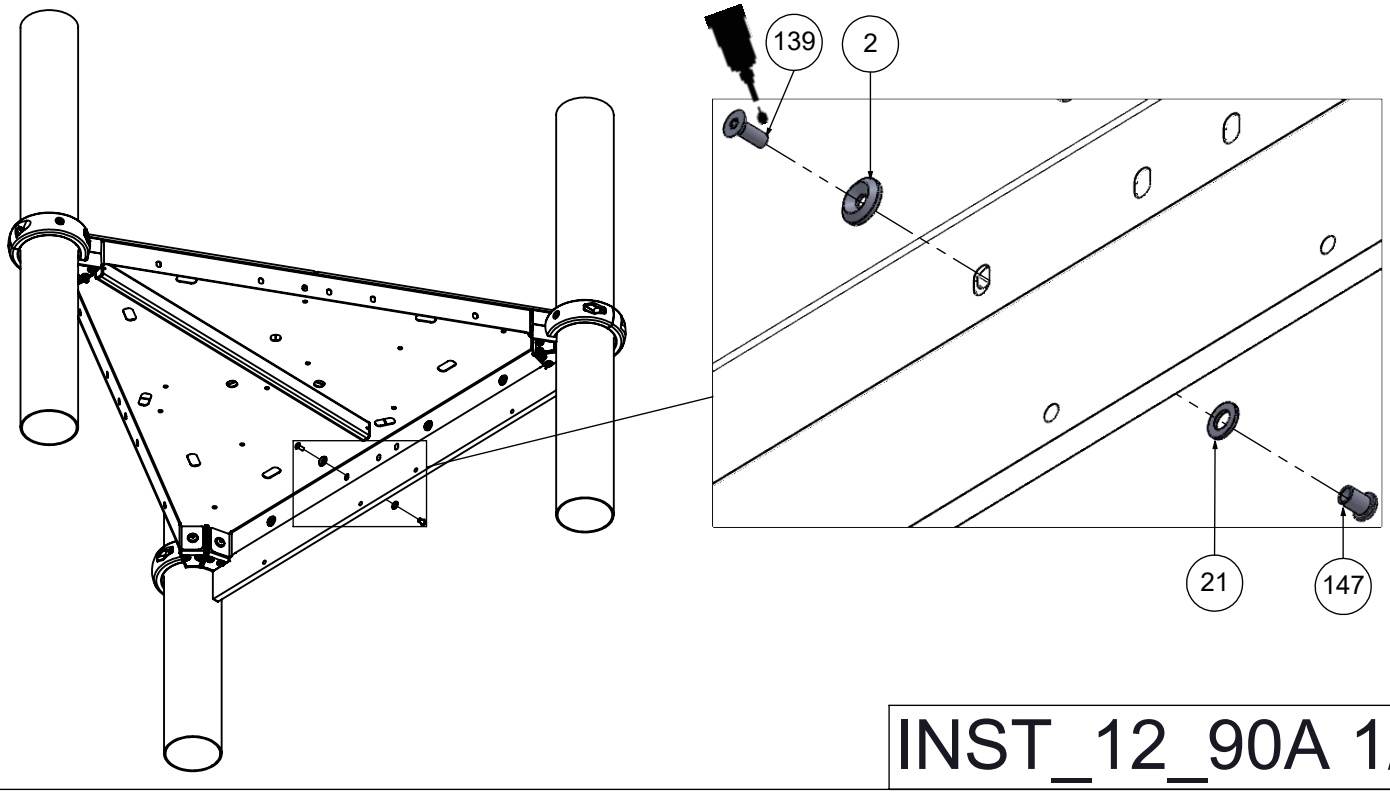
Nr	Σ	Element		
2	4		-	W6x60
21	4		DIN 125	8x16
58	1		-	LOCTITE
139	4		DIN 7991	M6x16
147	4		-	M6x10

1



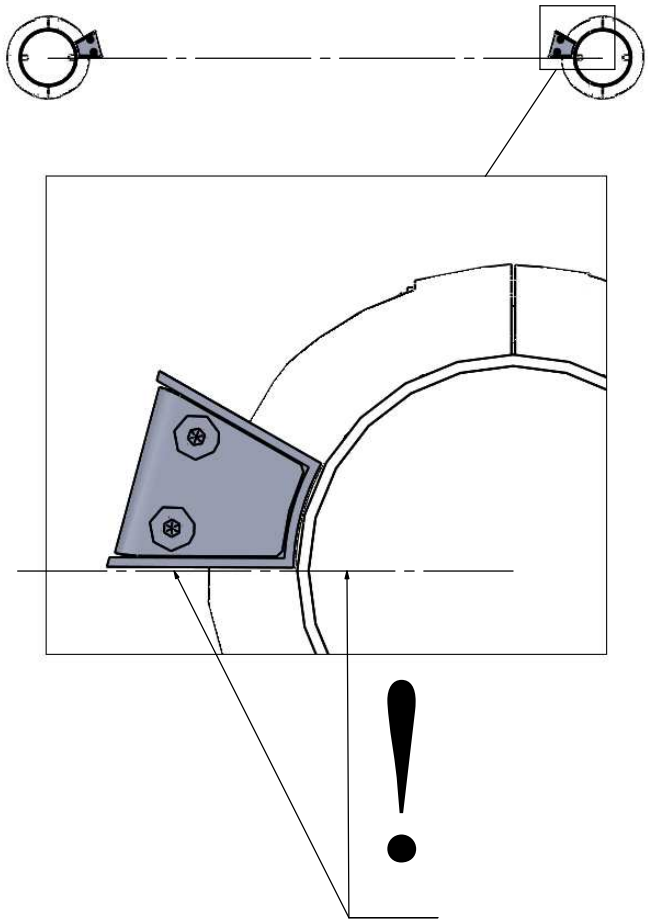


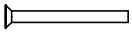
2



INST_12_90A 1/1

INST_12_90B

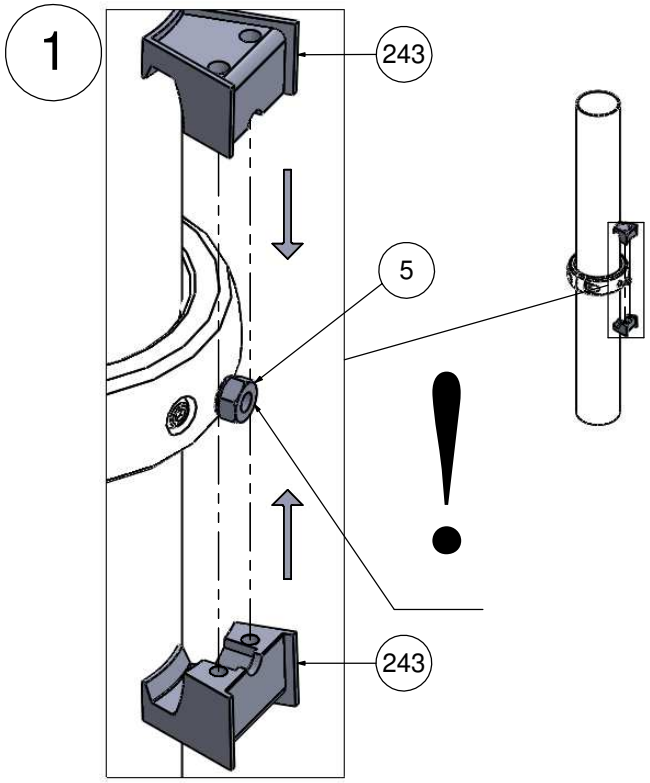


Nr	Σ	Element	DIN	ELEMENT
5	2		DIN 985	M10
21	8		DIN 125	8x16
22	4		DIN 125	6x12
24	4		ISO 7380	M6x16
44	2		ISO 7380	M10x25
58	1		-	LOCTITE
147	8		-	M6x10
242	2		-	1200_1_A2_g3_G_v3
243	4		-	UCHW_114,3
245	4		DIN 7991	M6x65
249	2		NYLON DIN 125	10x20
271	2		-	1200_25_A2_g3_G_v1



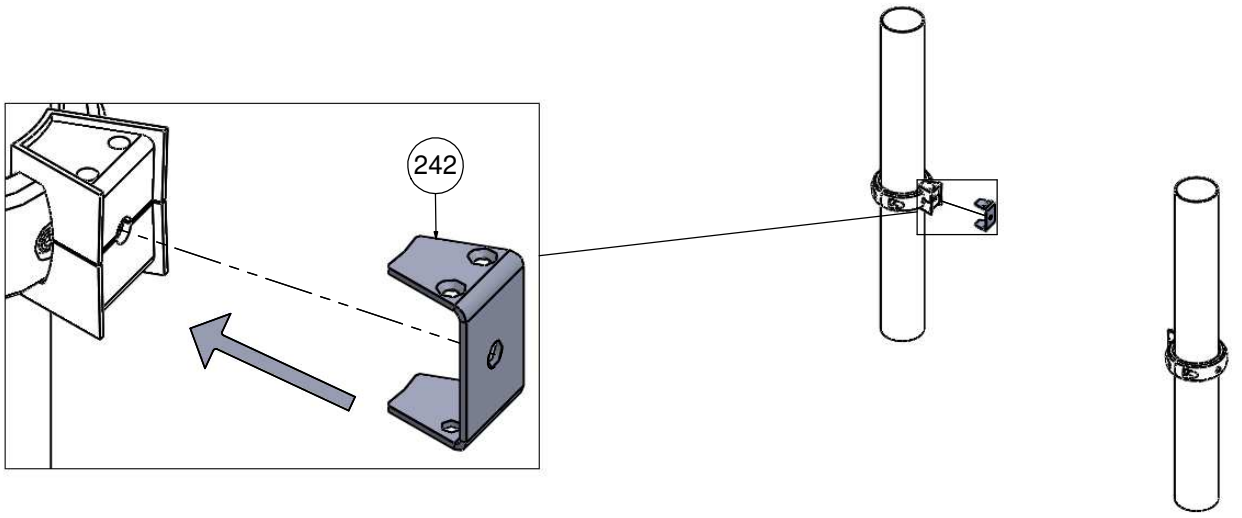


Nr. 4, 6 Nr. T30

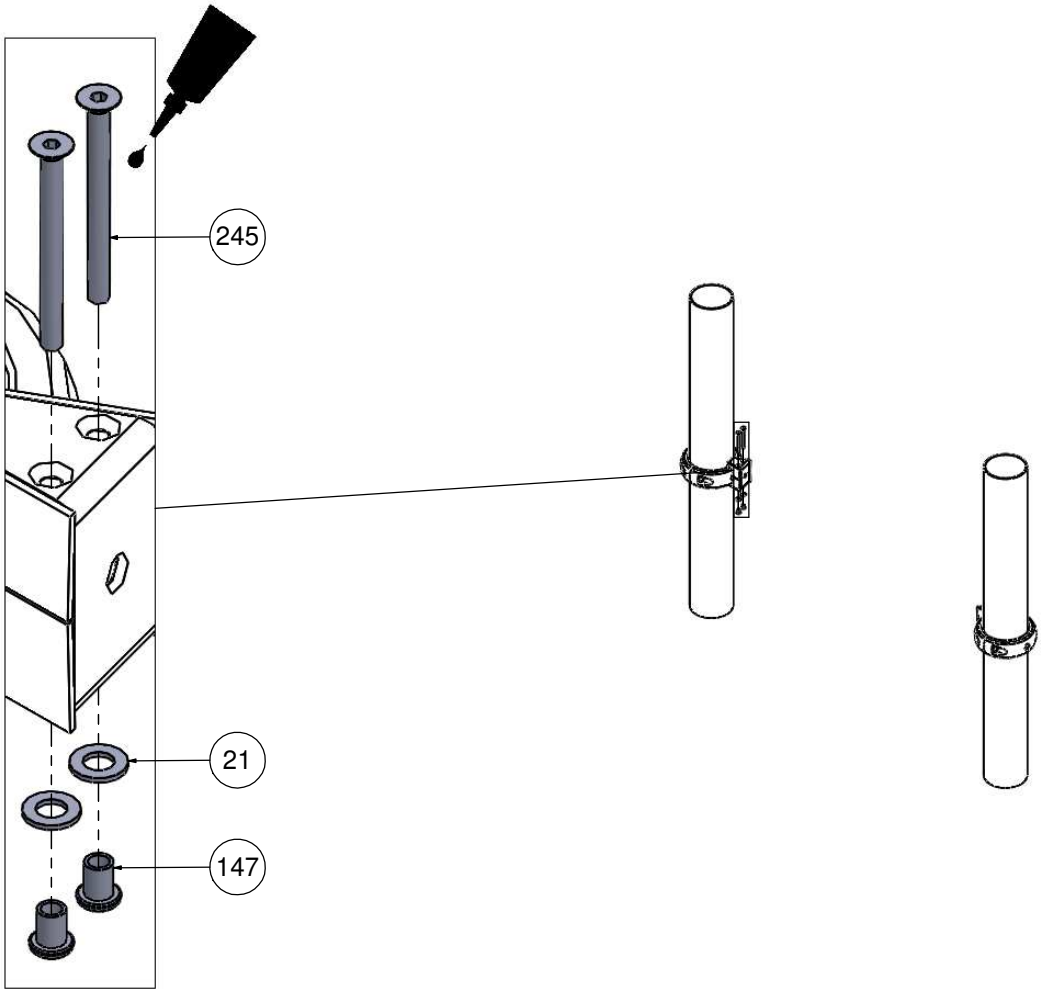




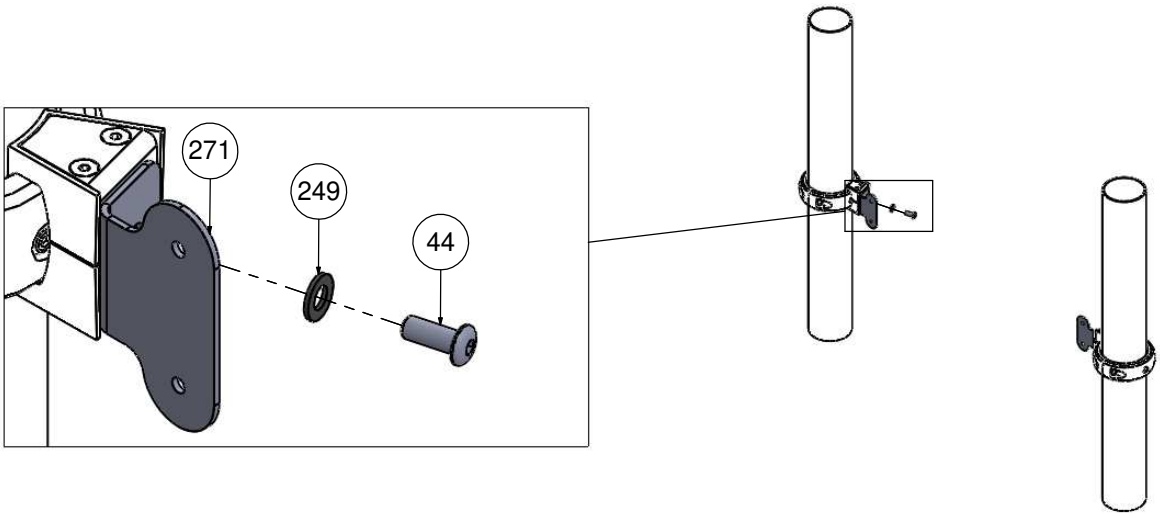
2

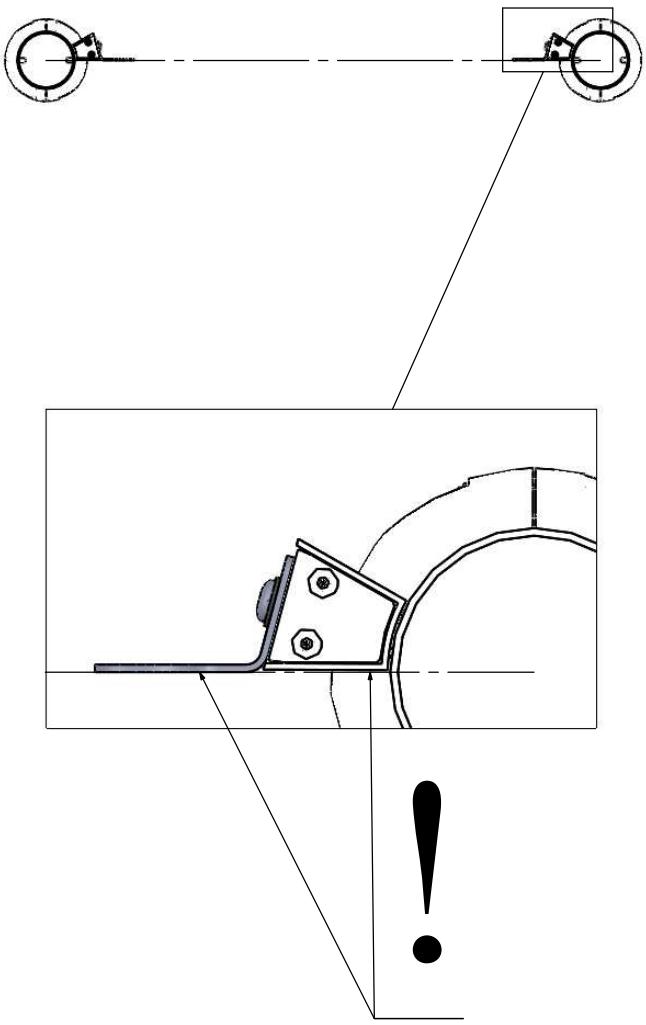


3

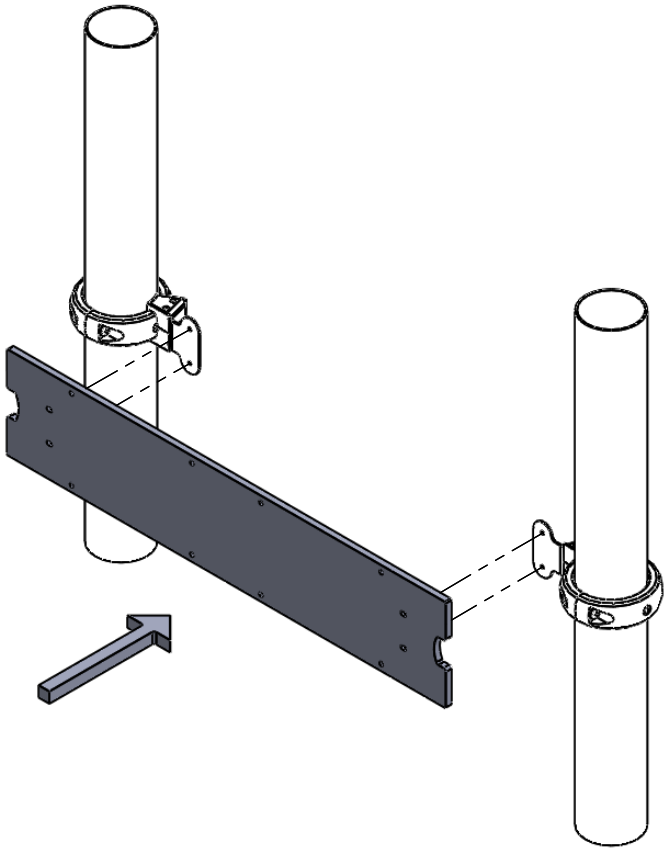


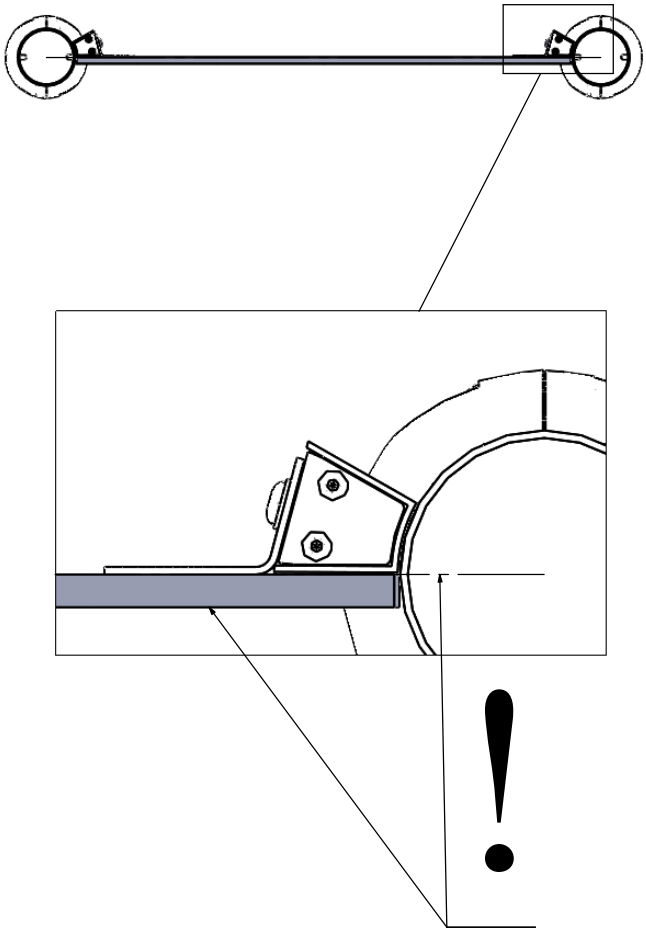
4



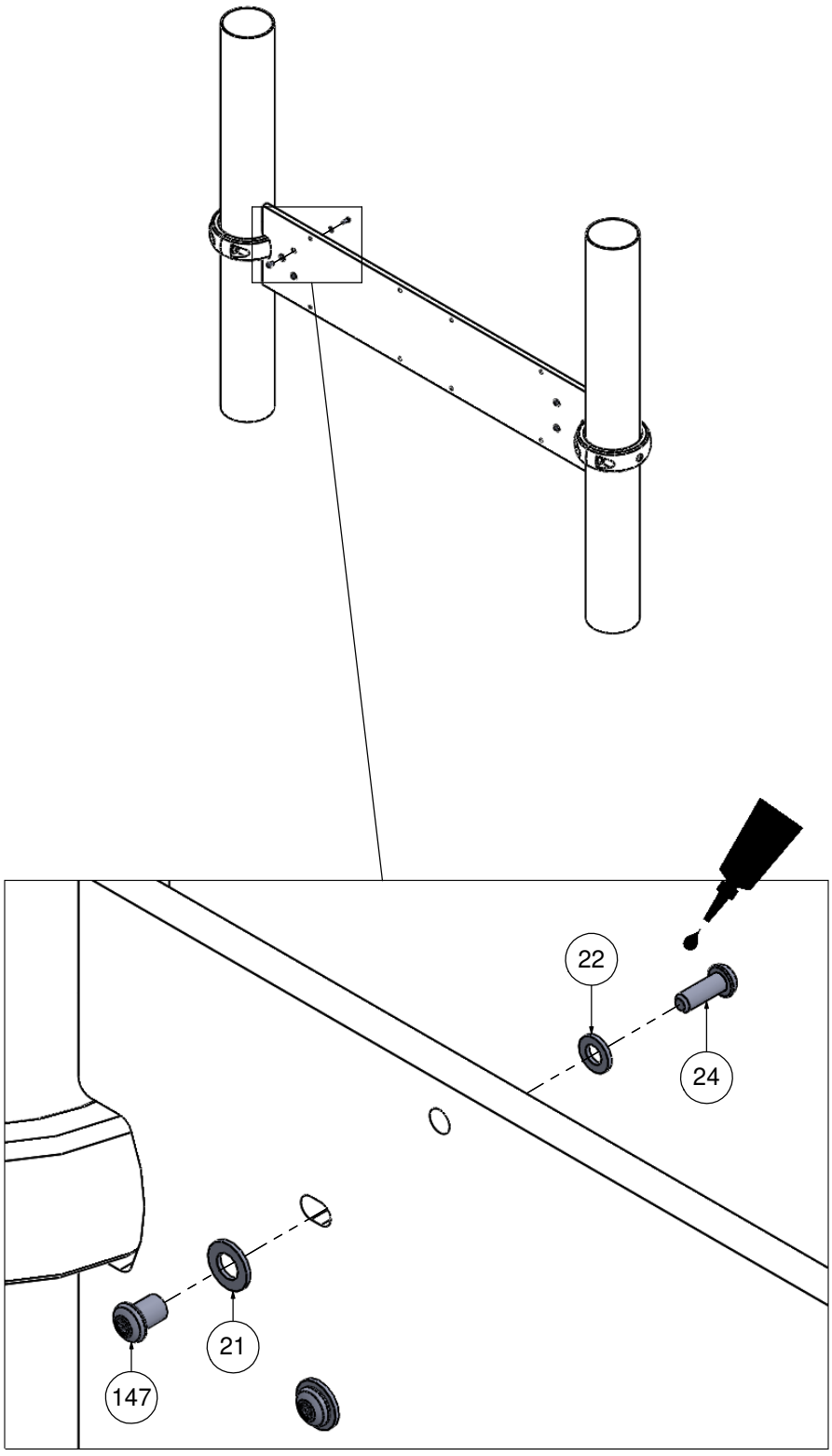


5





6



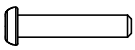
INST_12_92



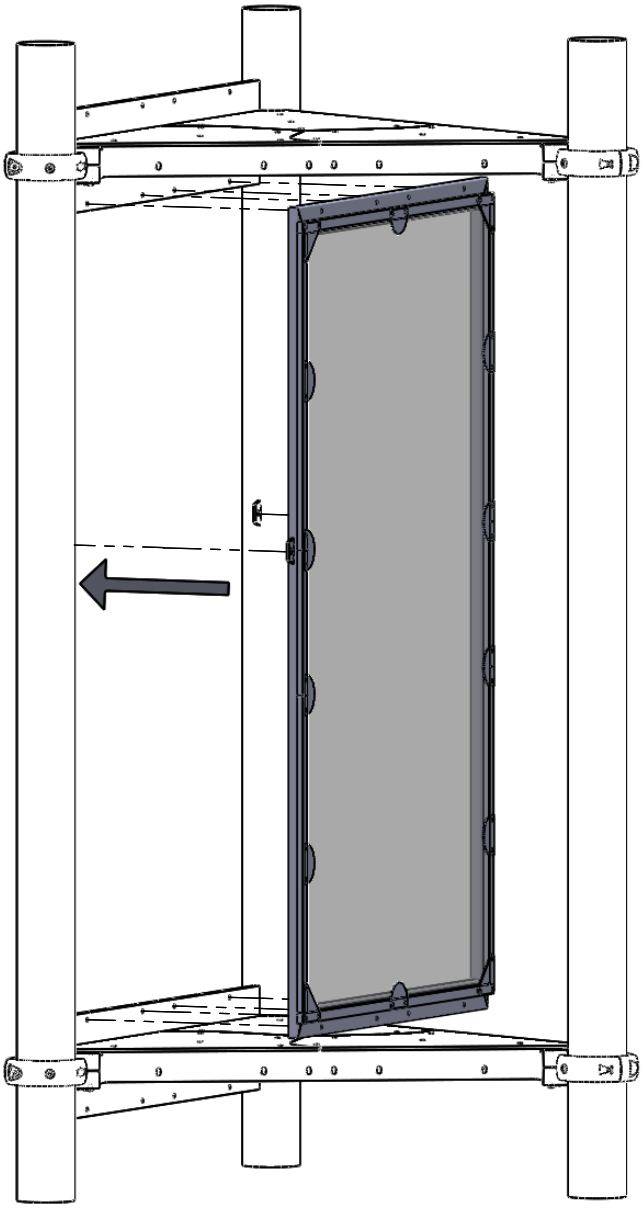
Nr. 4

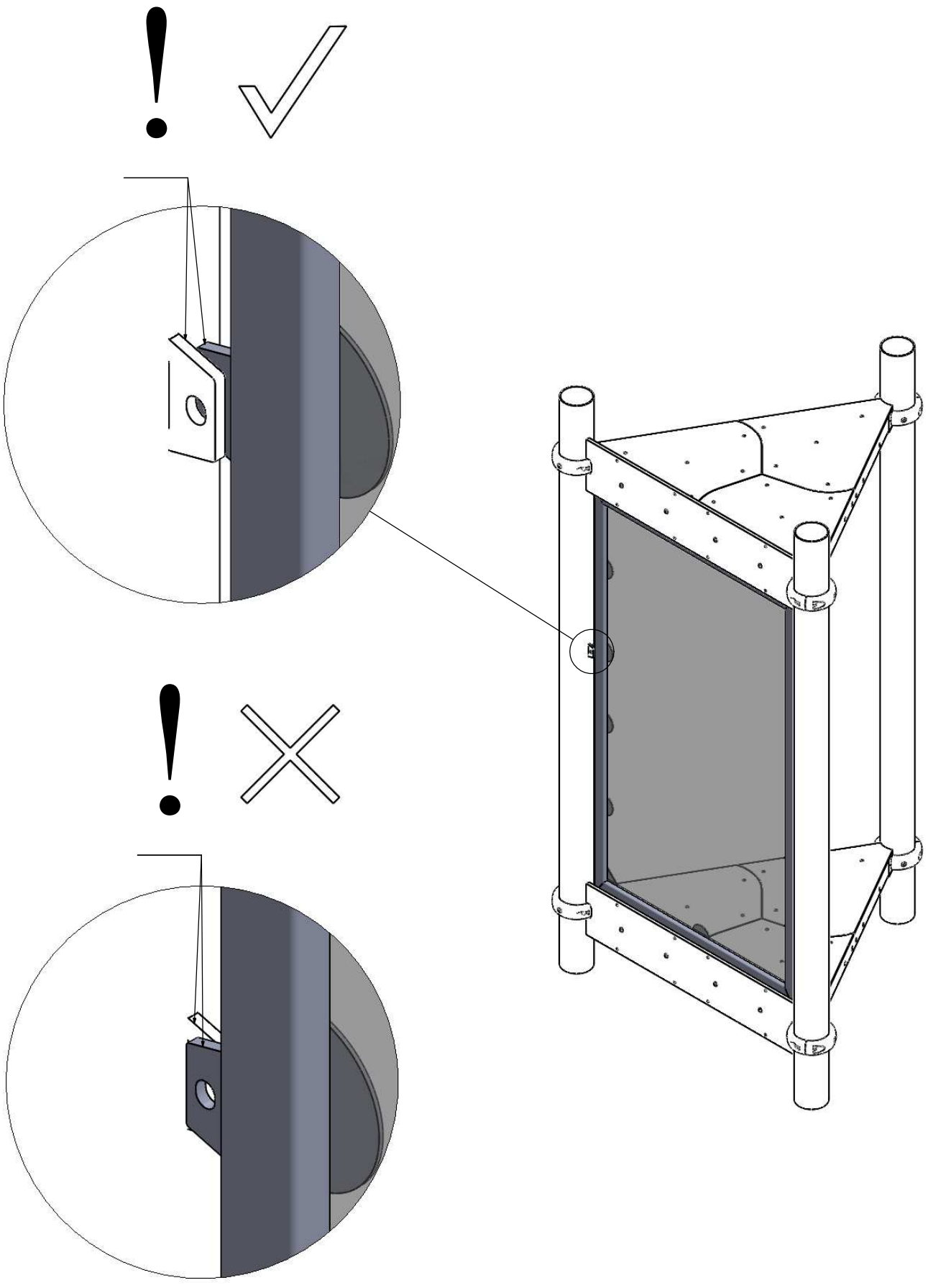


Nr. T30

Nr	Σ	Element		
2	2		-	W6x60
10	8		DIN 9021	6x18
15	8		ISO 7380	M6x30
21	10		DIN 125	8x16
58	1		-	LOCTITE
146	2		DIN 7991	M6x12
147	10		-	M6x10

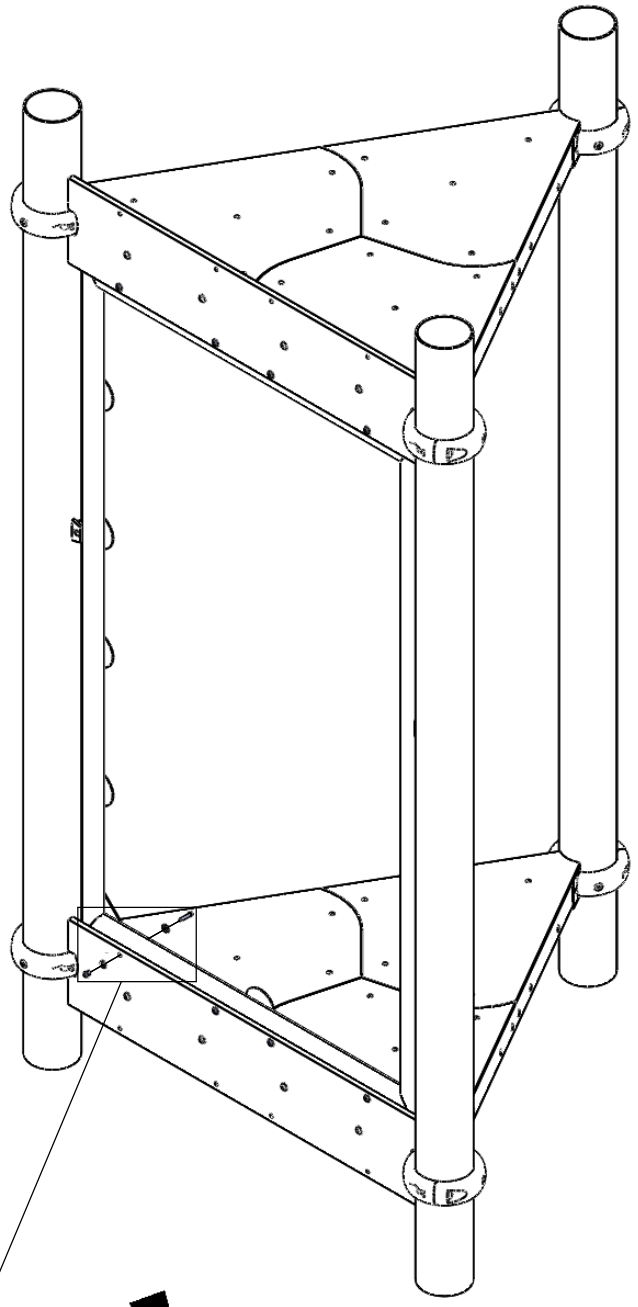
1

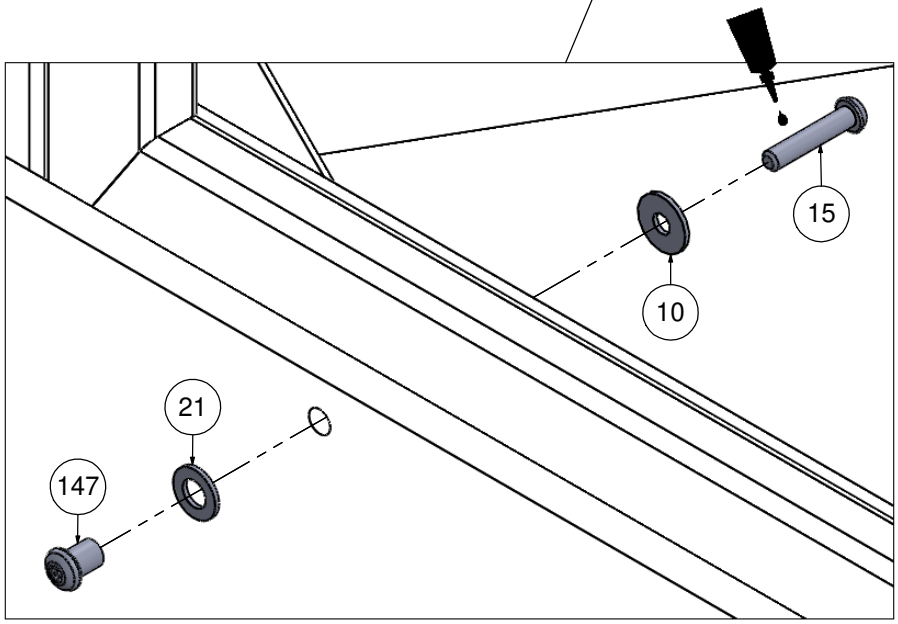




INST_12_92

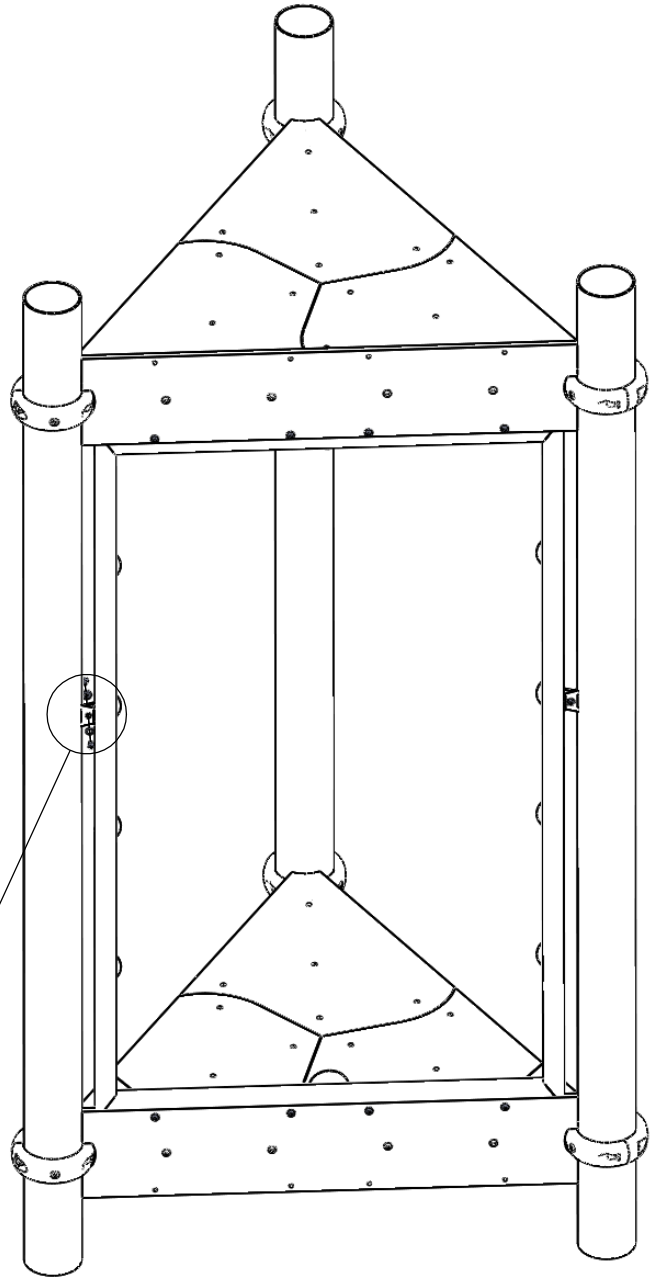
2

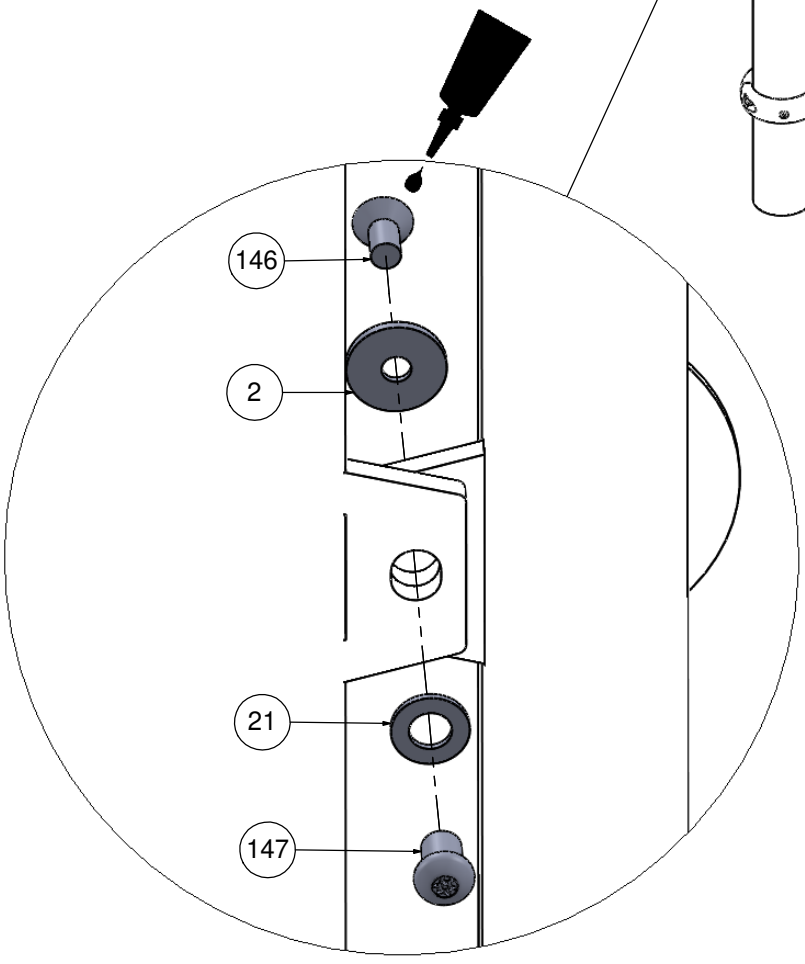




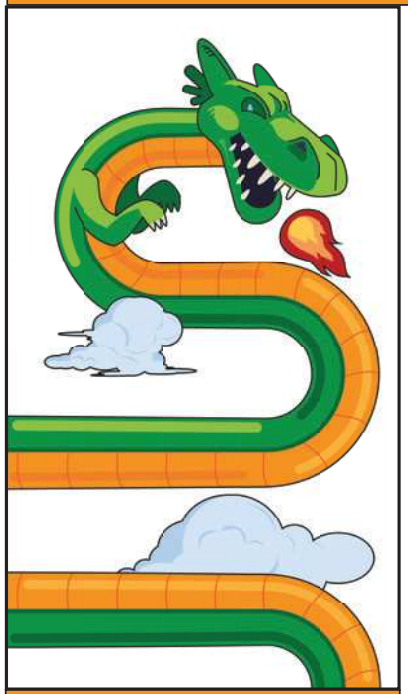
INST_12_92

3

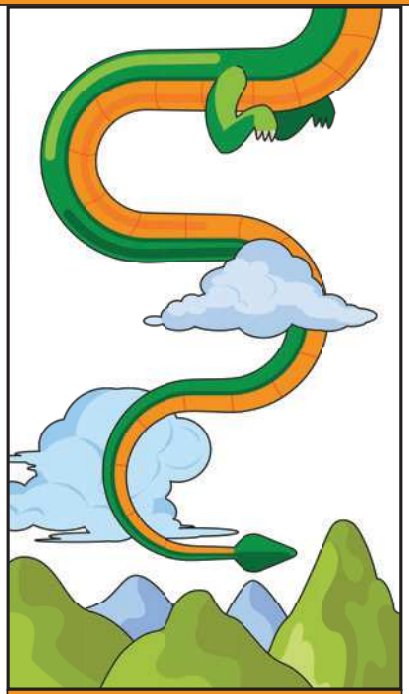




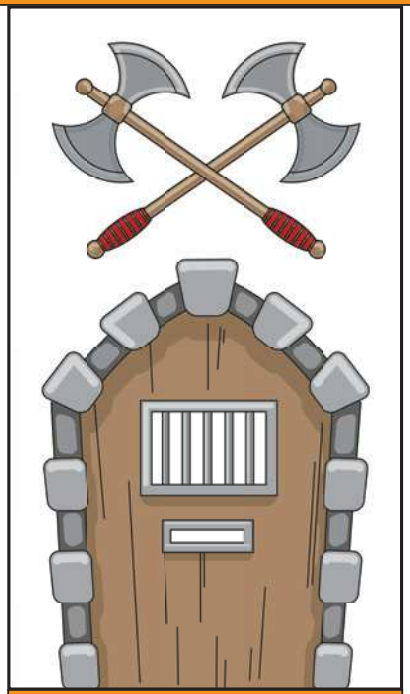
1403



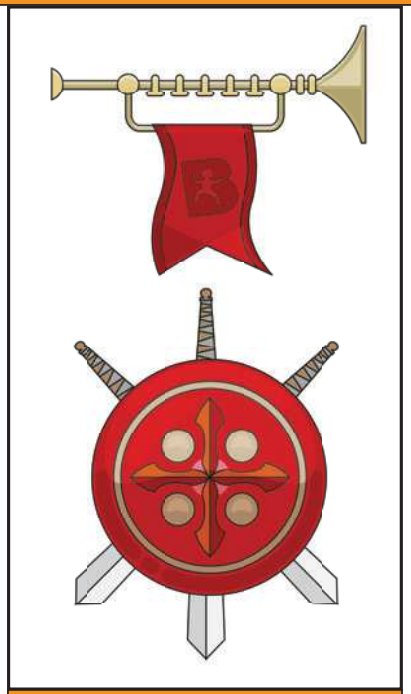
M9_1200_92



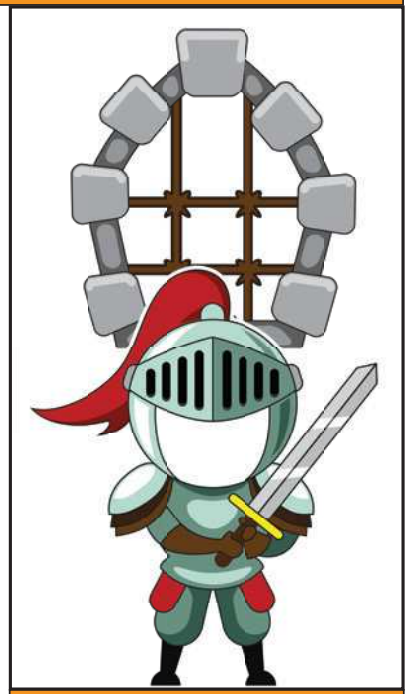
M10_1200_92



M11_1200_92



M12_1200_92



M13_1200_92

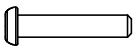
INST_12_93A



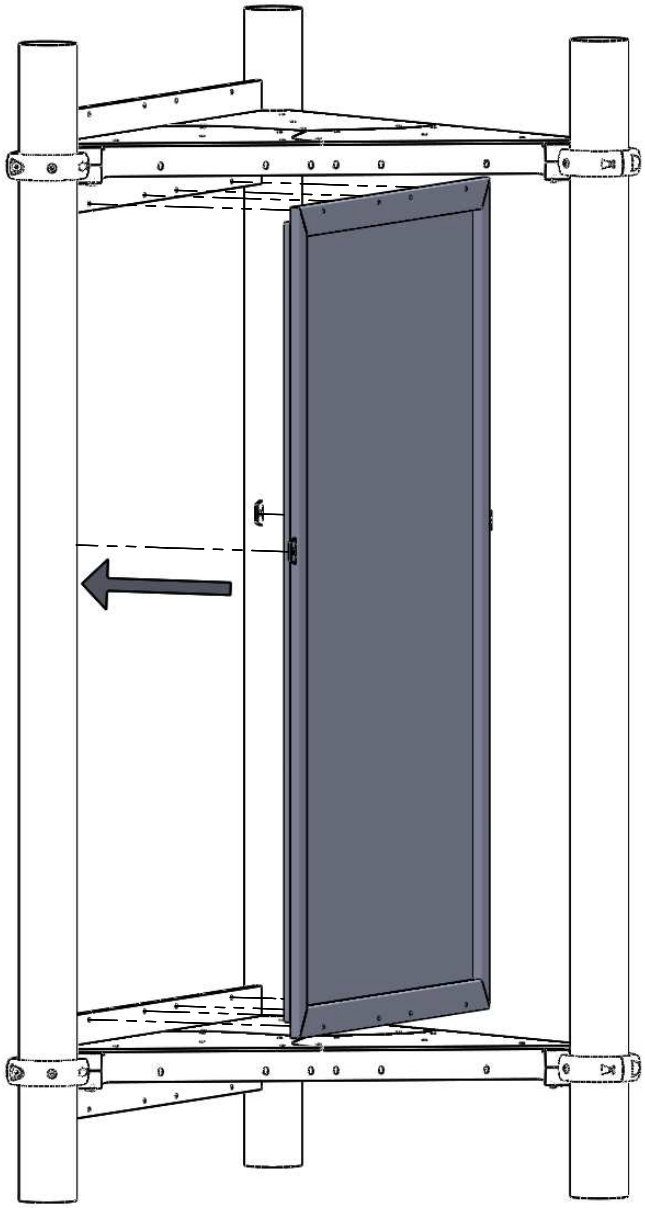
Nr. 4

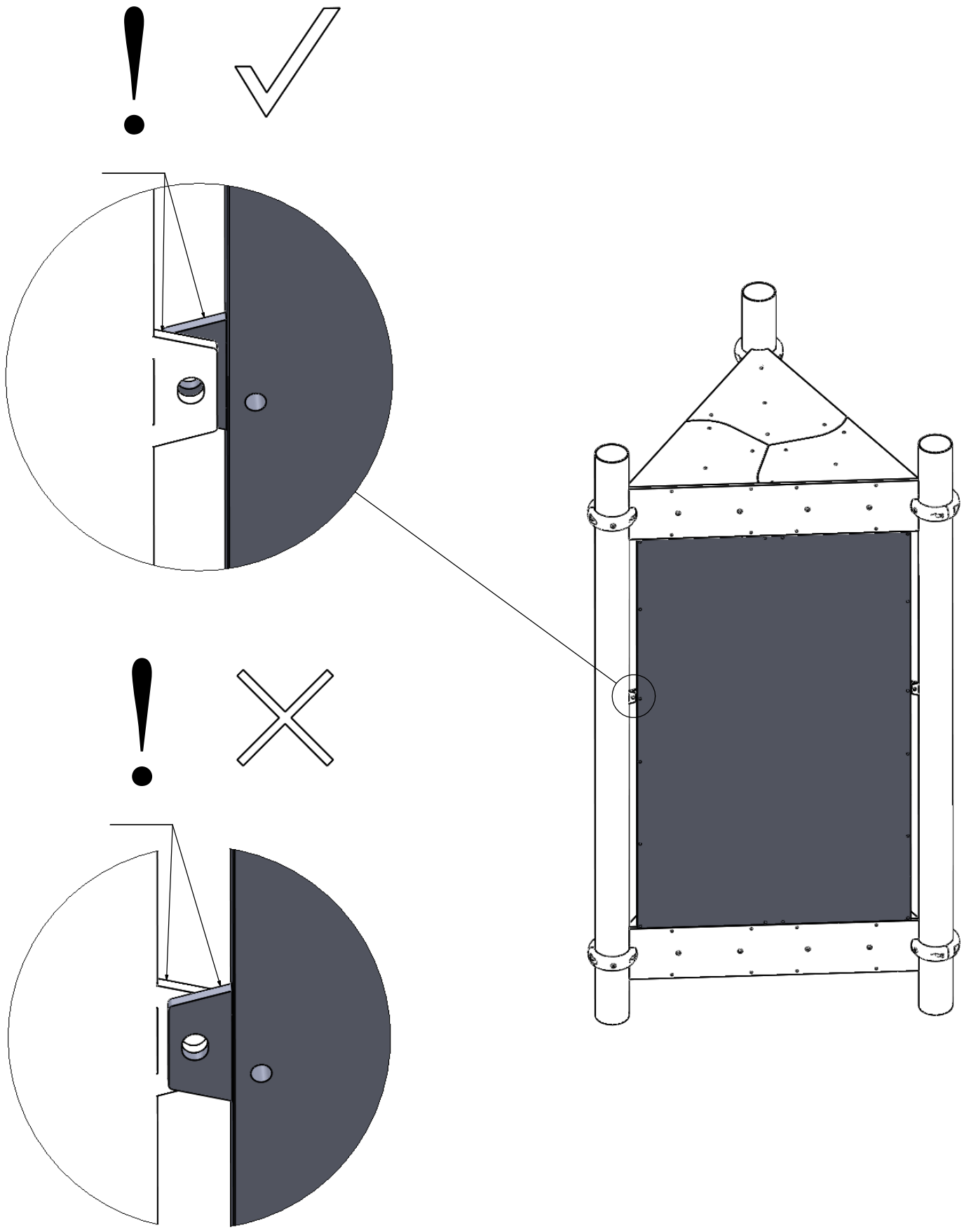


Nr. T30

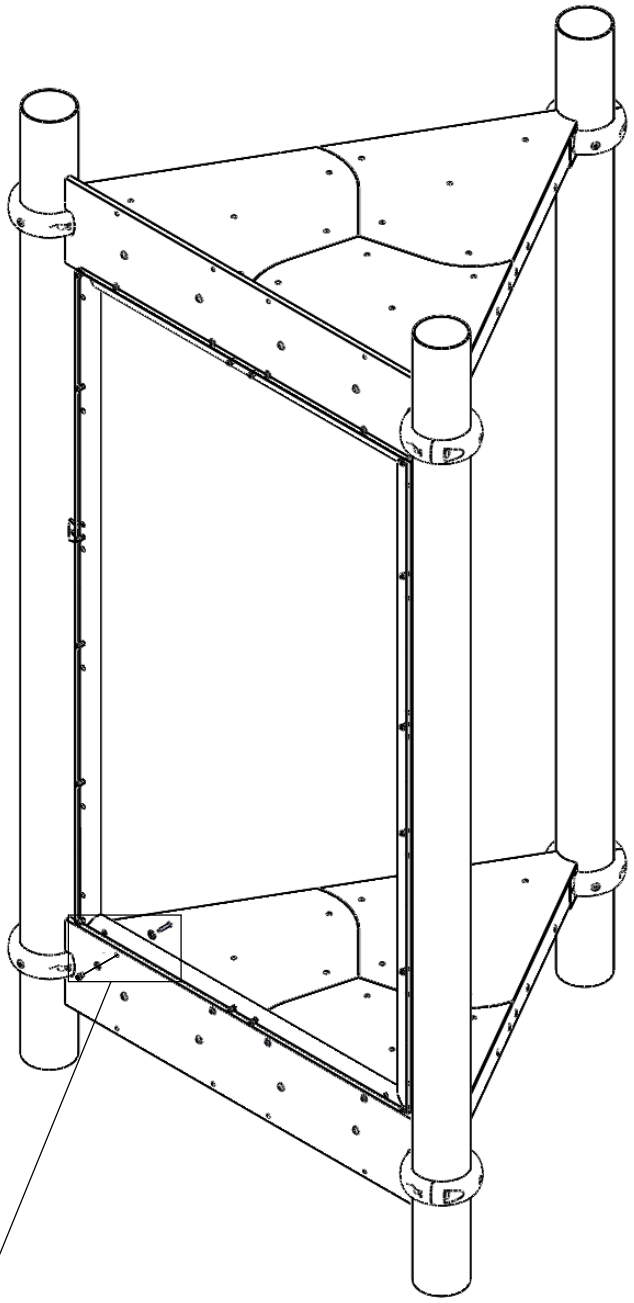
Nr	Σ	Element		
2	2		-	W6x60
10	8		DIN 9021	6x18
15	8		ISO 7380	M6x30
21	10		DIN 125	8x16
58	1		-	LOCTITE
146	2		DIN 7991	M6x12
147	10		-	M6x10

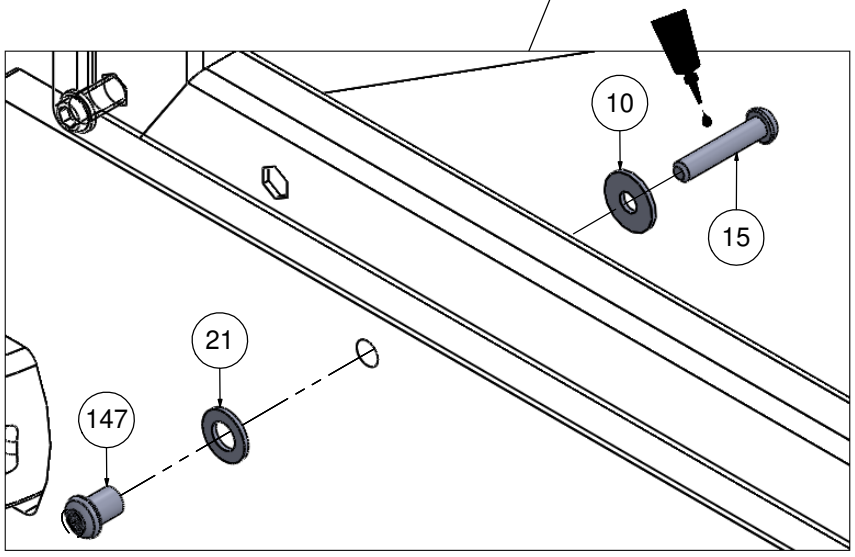
1



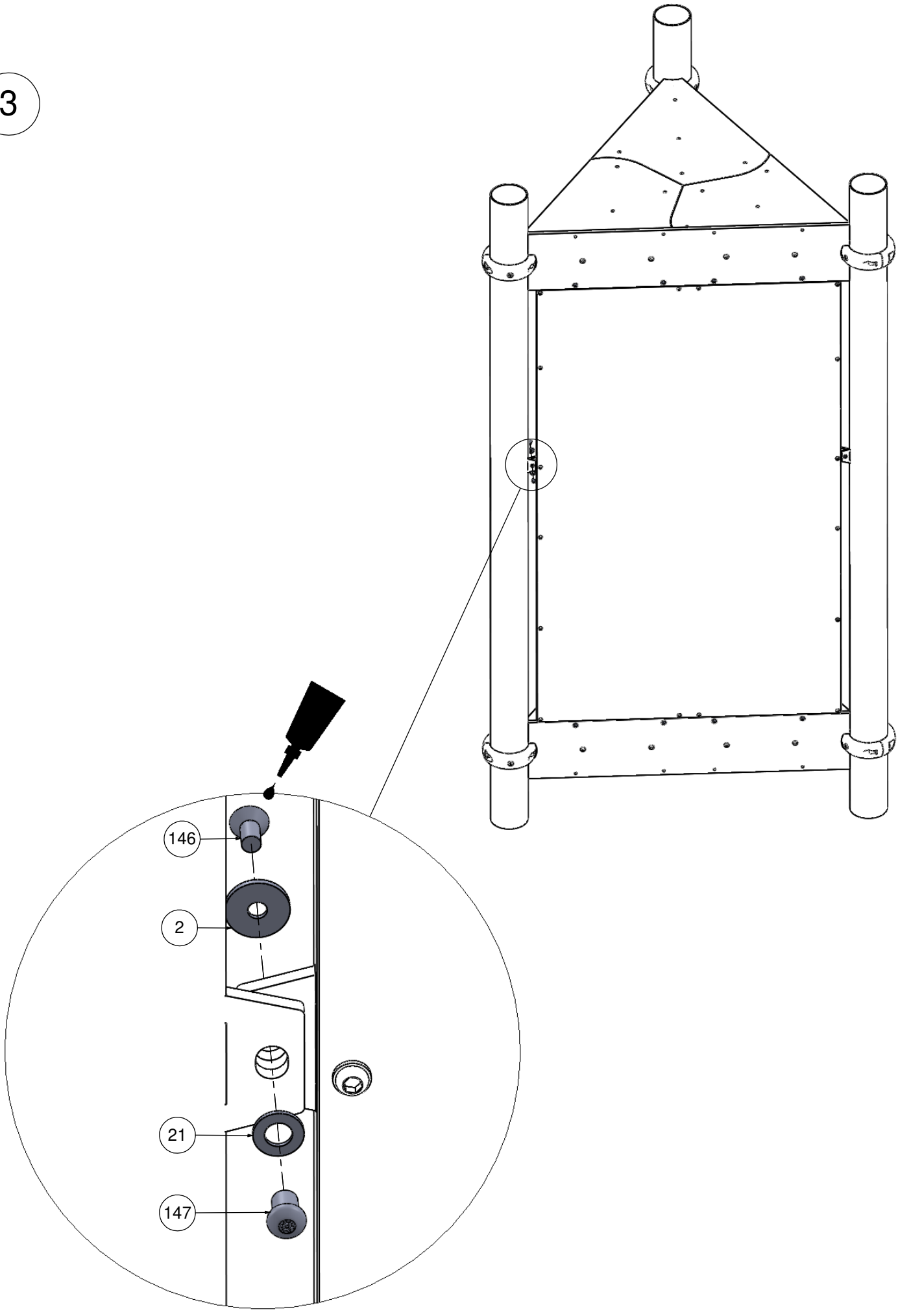


2





3



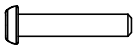
INST_12_93B+S



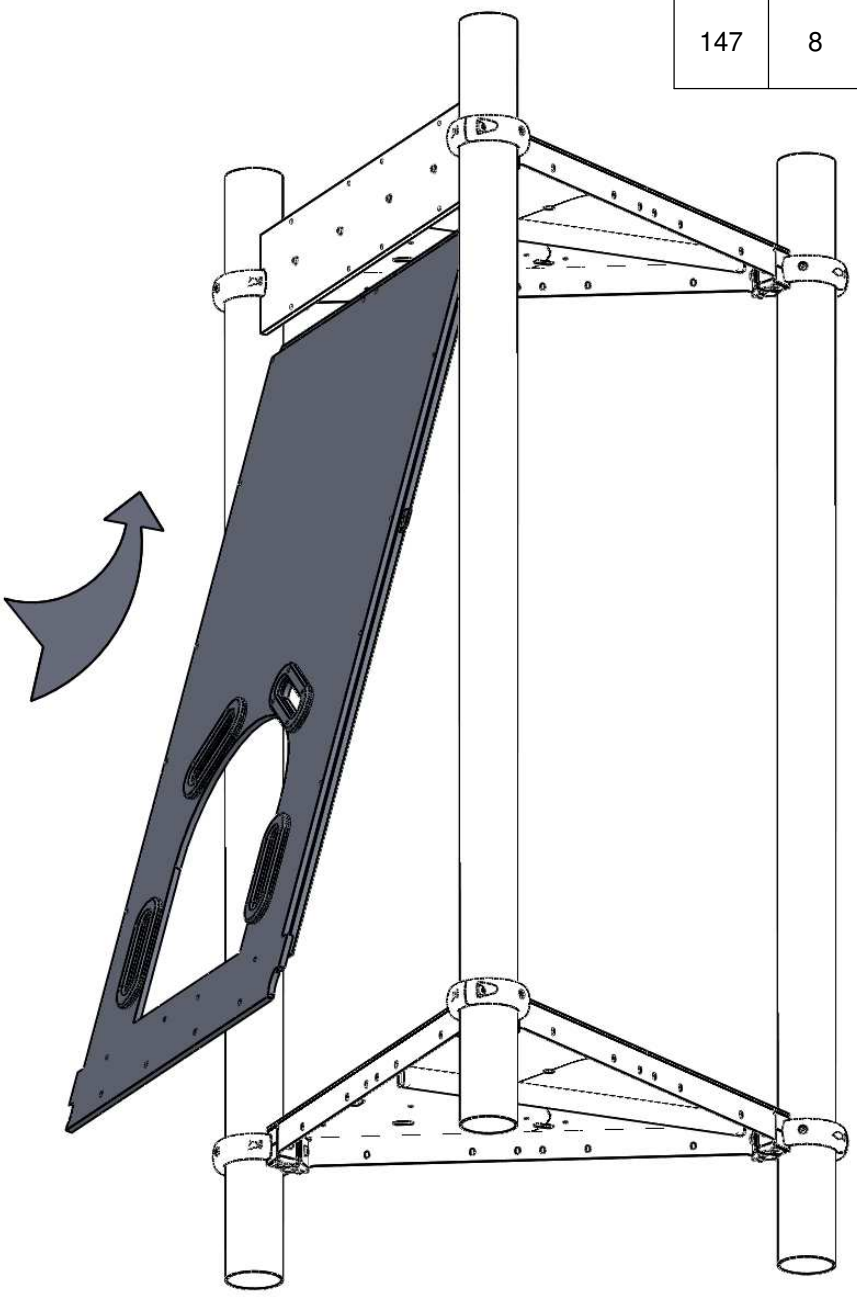
Nr. 4

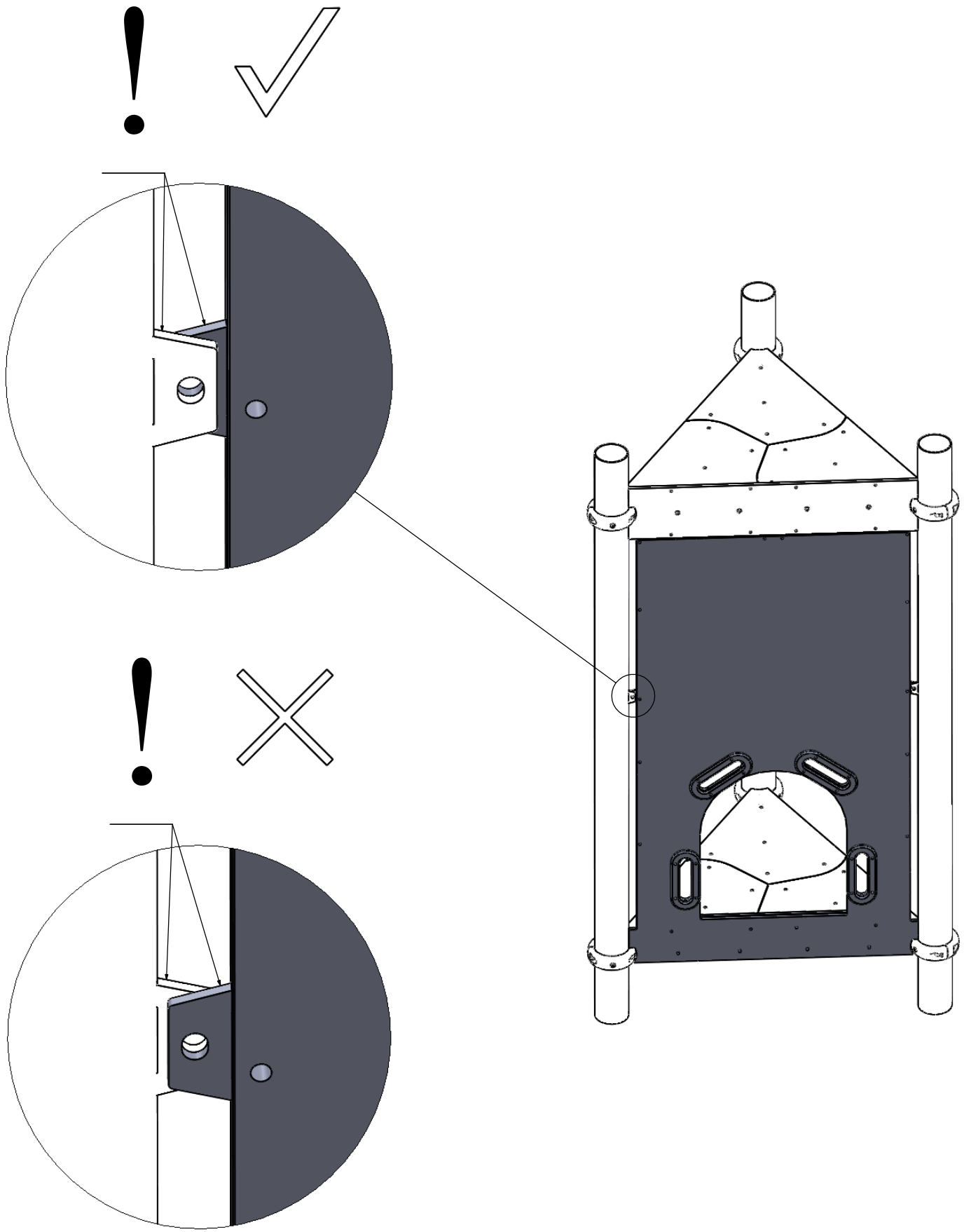


Nr. T30

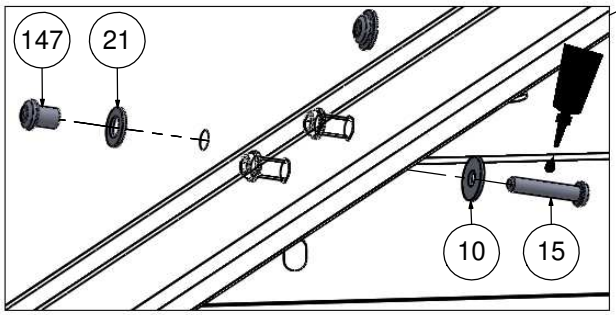
Nr	Σ	Element	DIN	ELEMENT
2	4		-	W6x60
10	4		DIN 9021	6x18
15	4		ISO 7380	M6x30
21	8		DIN 125	8x16
58	1		-	LOCTITE
139	2		DIN 7991	M6x16
146	2		DIN 7991	M6x12
147	8		-	M6x10

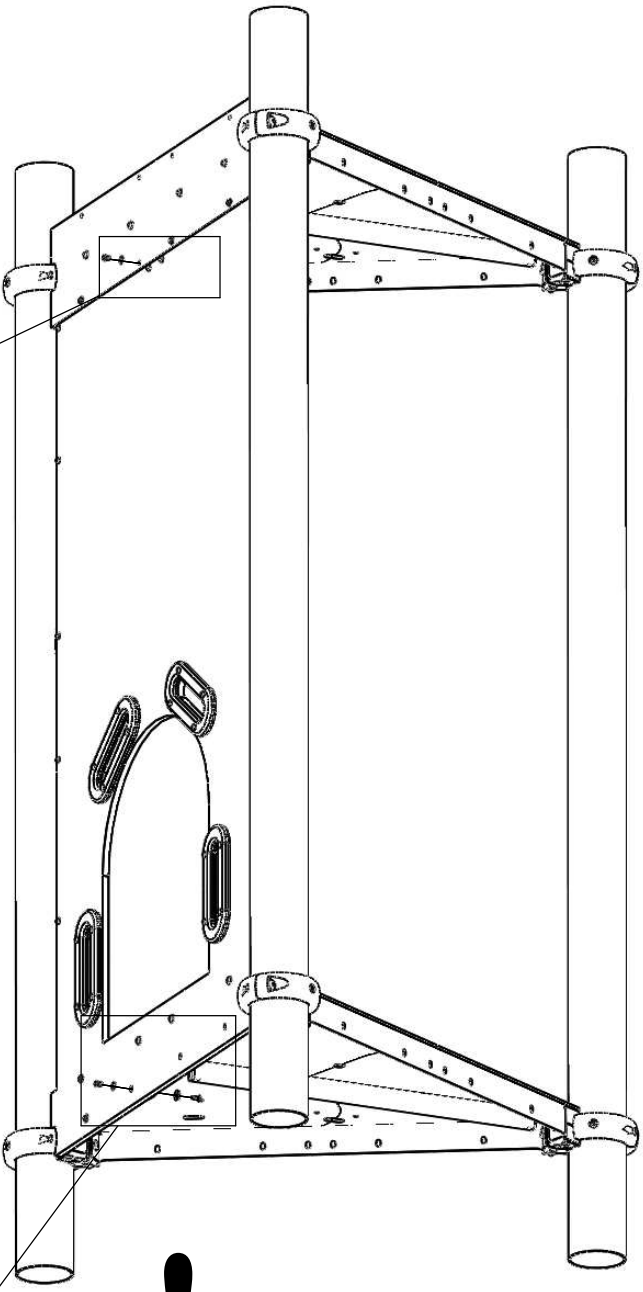
1

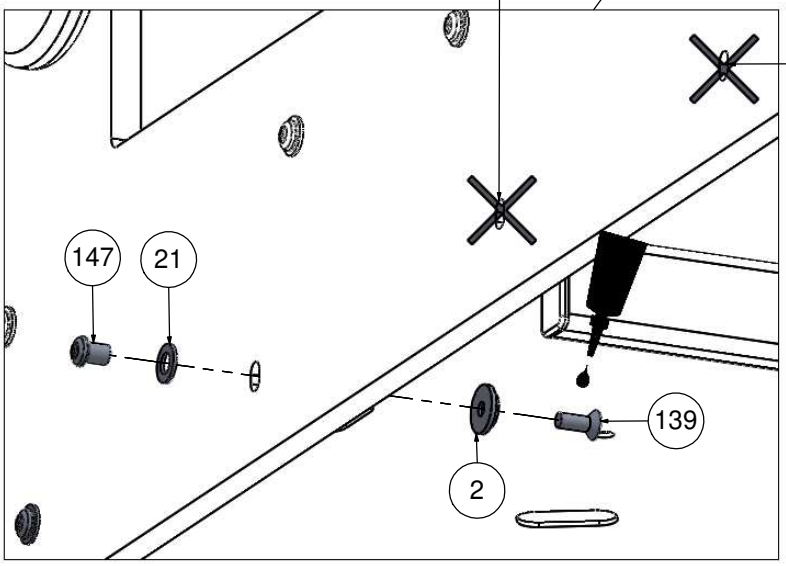




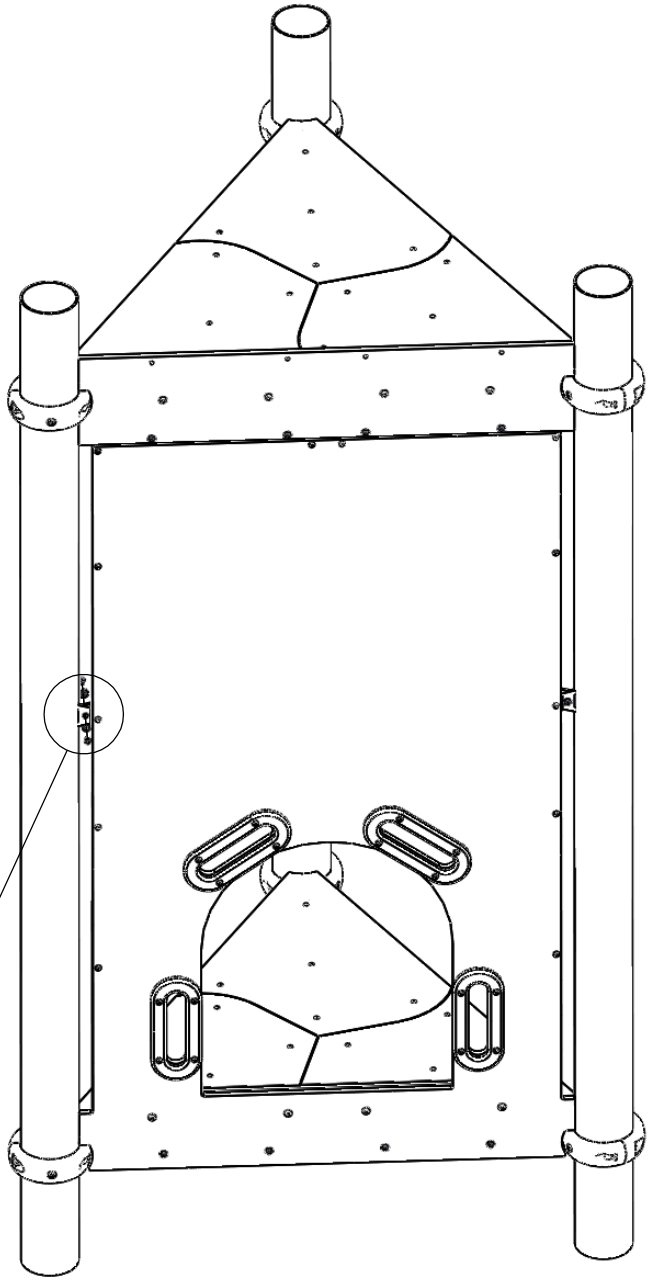
2

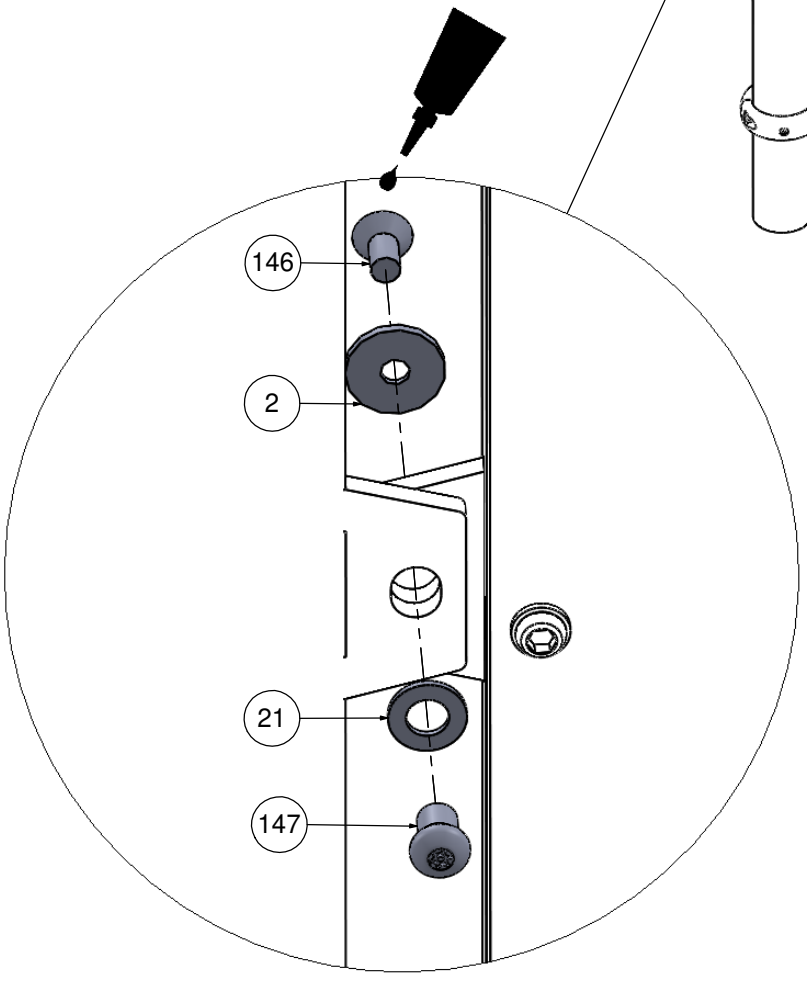






3





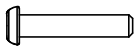
INST_12_93B



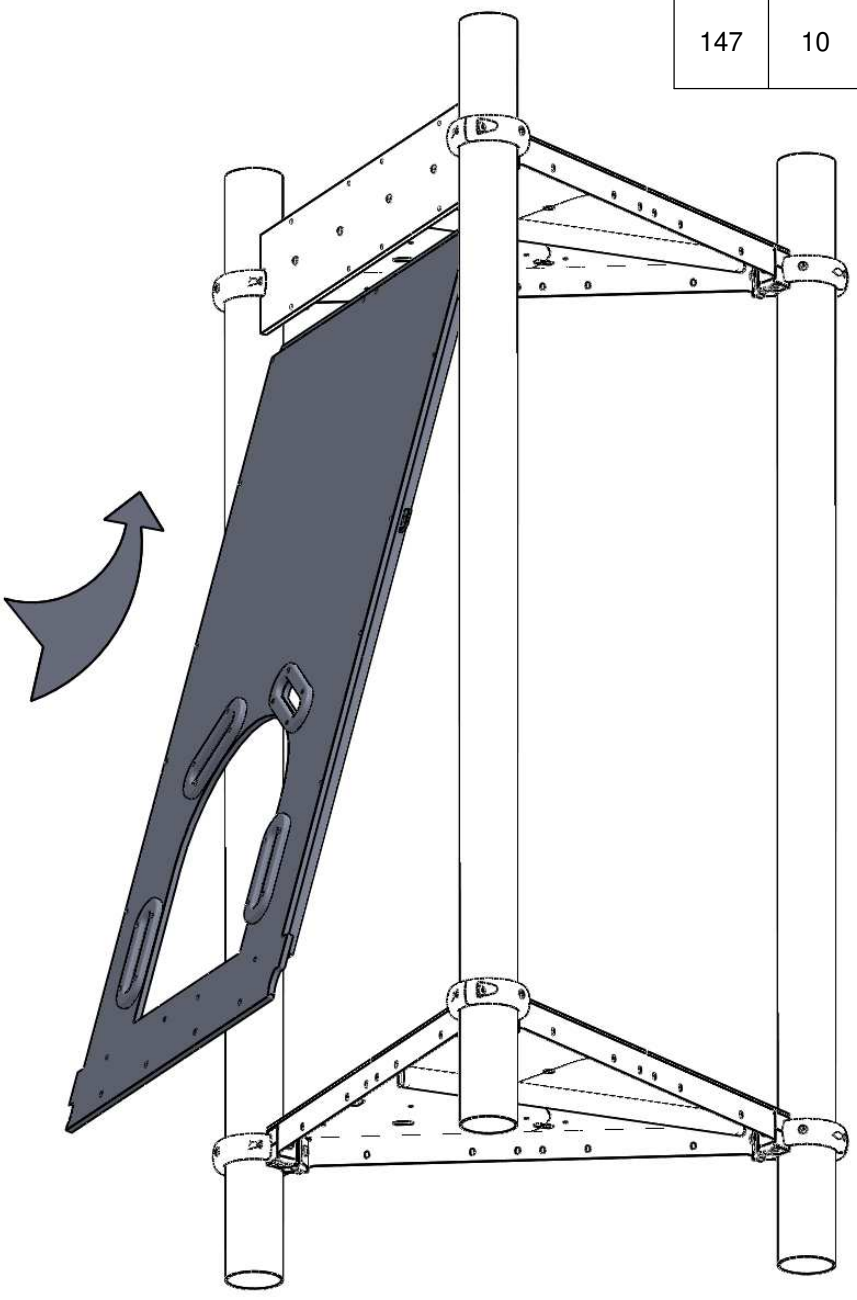
Nr. 4

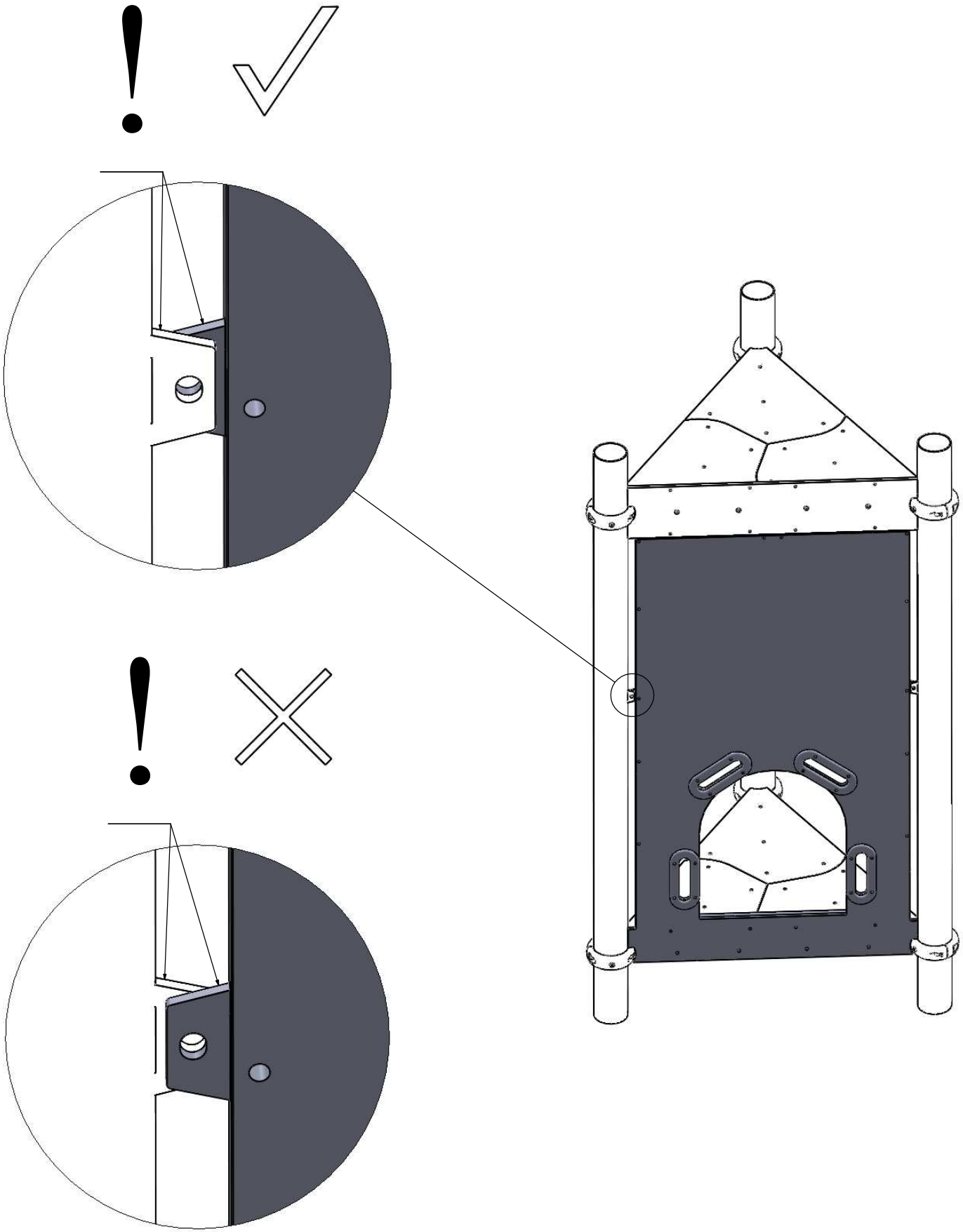


Nr. T30

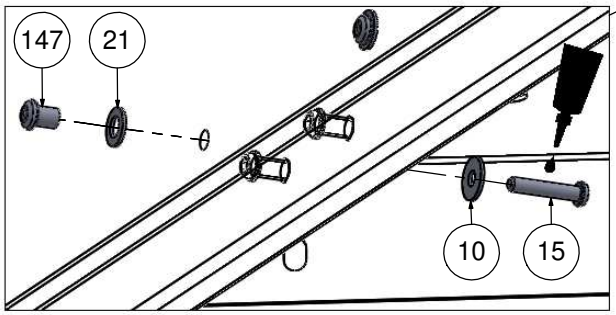
Nr	Σ	Element	DIN	ELEMENT
2	6		-	W6x60
10	4		DIN 9021	6x18
15	4		ISO 7380	M6x30
21	10		DIN 125	8x16
58	1		-	LOCTITE
139	4		DIN 7991	M6x16
146	2		DIN 7991	M6x12
147	10		-	M6x10

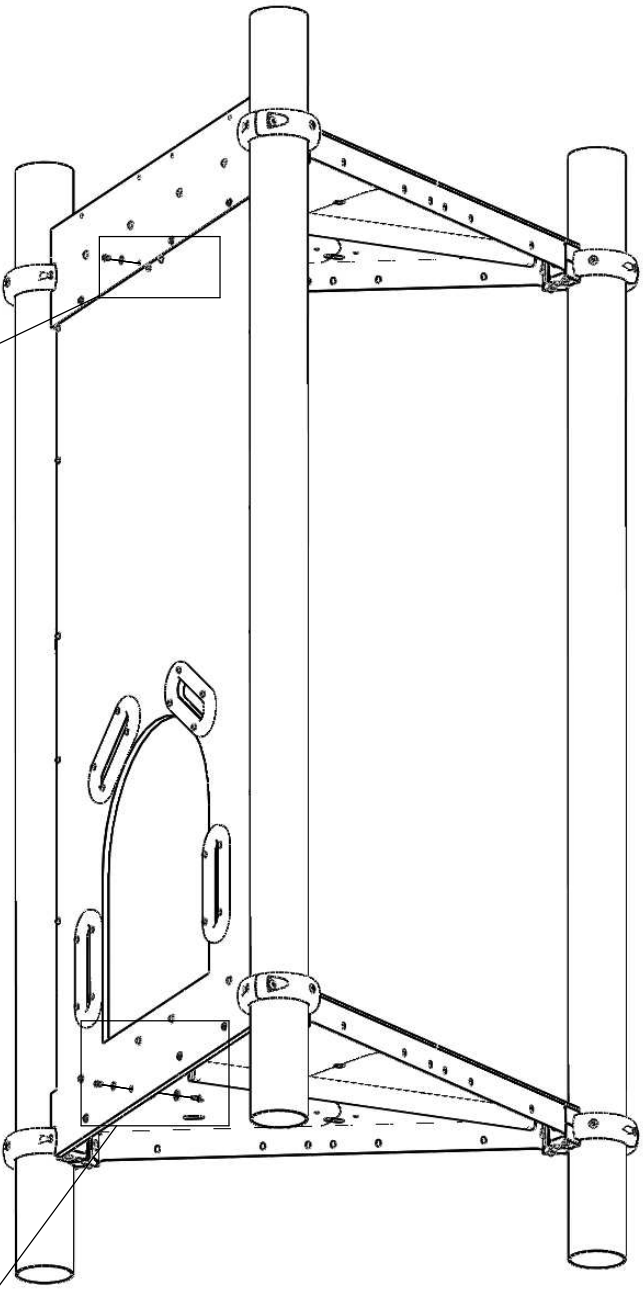
1

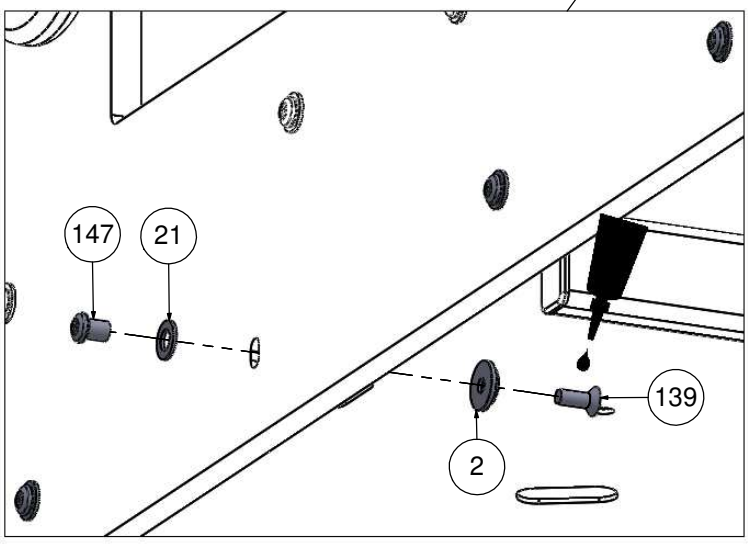




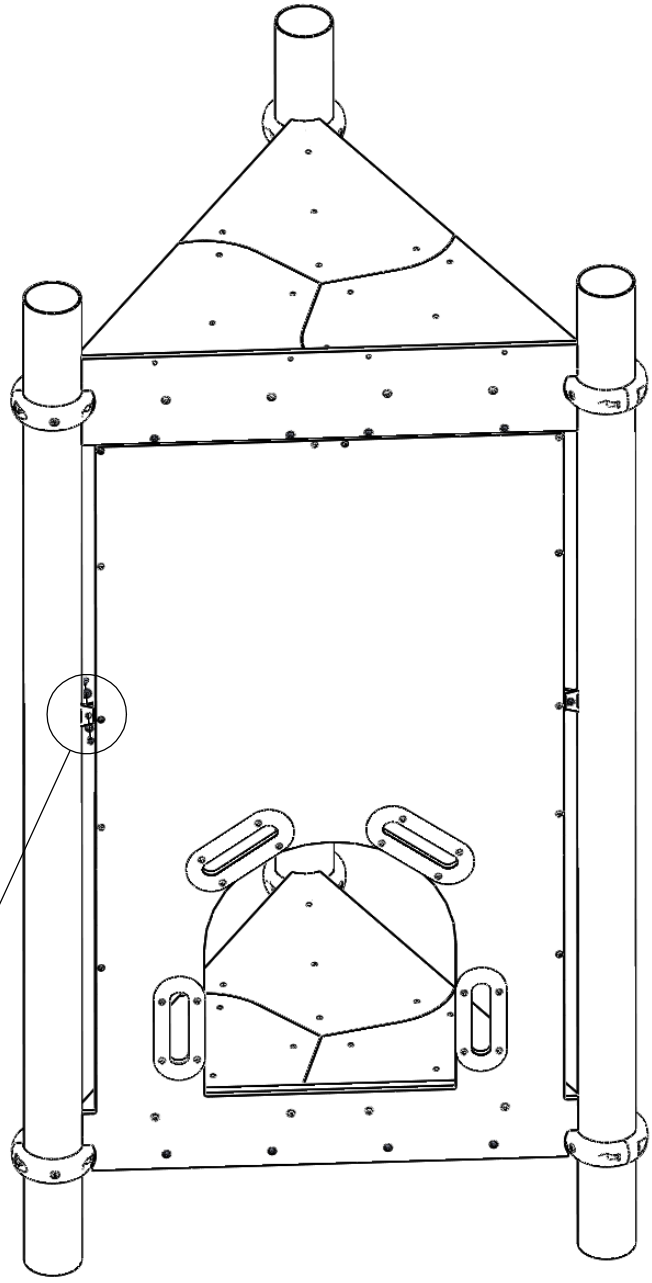
2

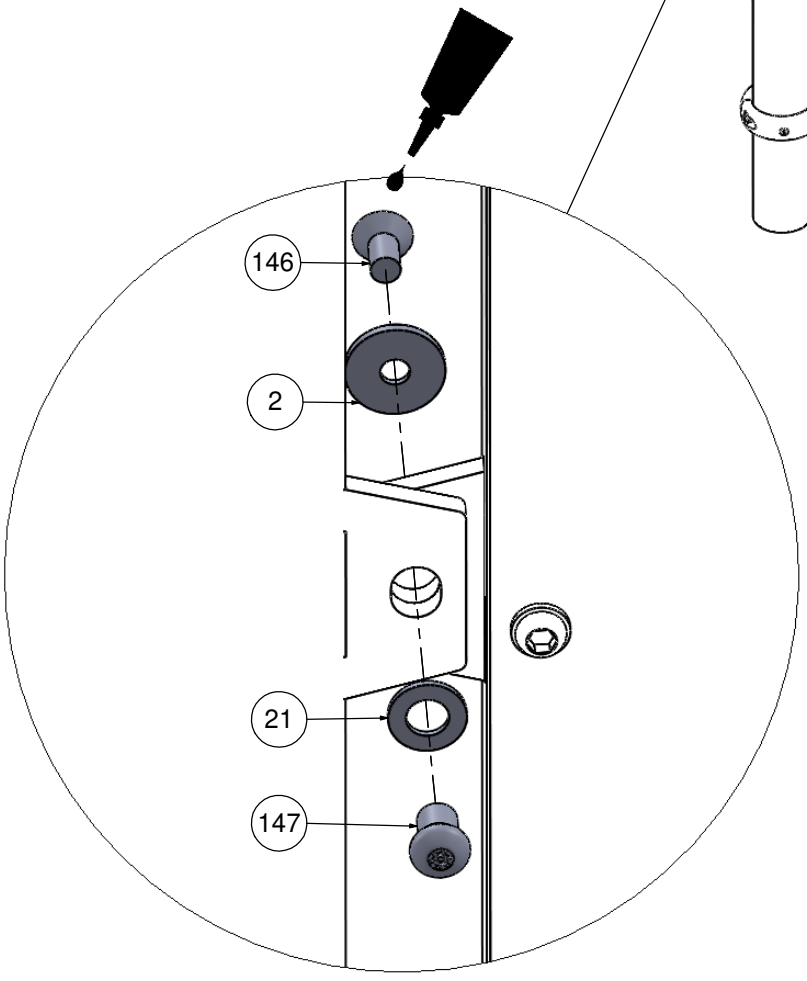




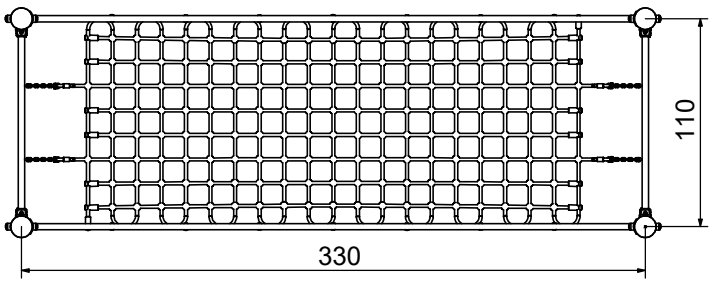


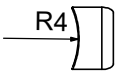
3





INST_12_94



Nr	Σ	Element		
4	16		DIN 125	10x20
5	8		DIN 985	M10
58	1		-	LOCTITE
77	16		-	K3_d30_A89_G
78	16		-	Z3_d30_G
276	8		DIN 931	M10x145

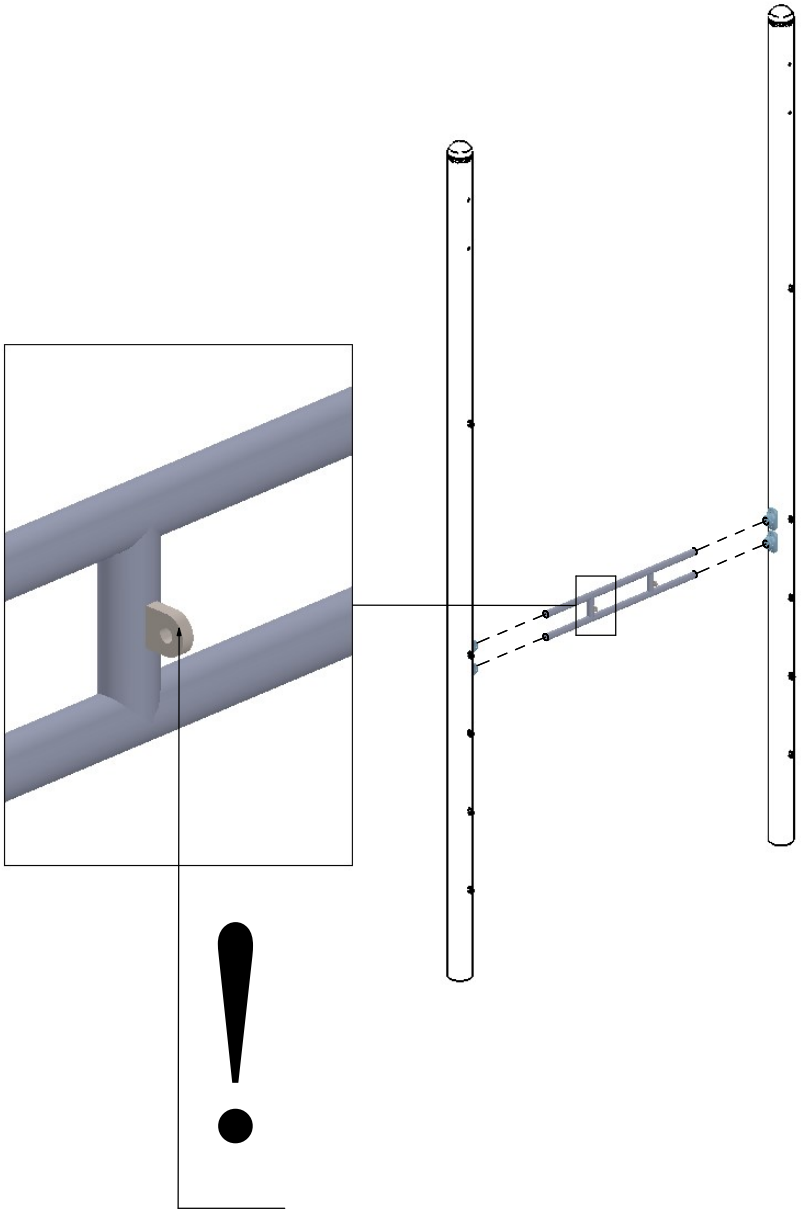


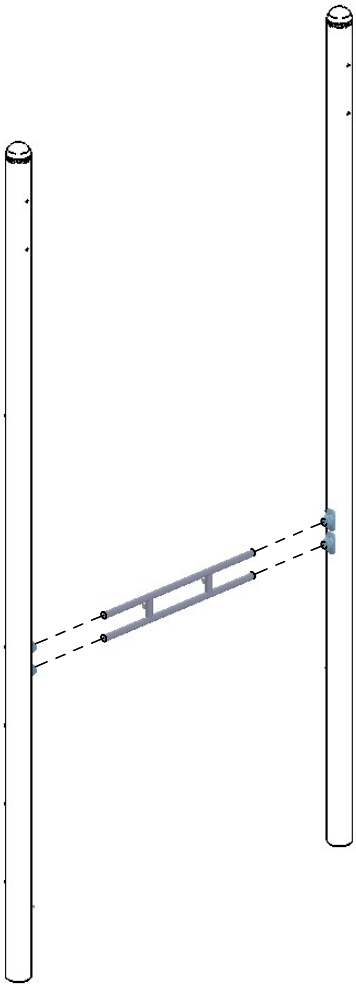
Nr. 5



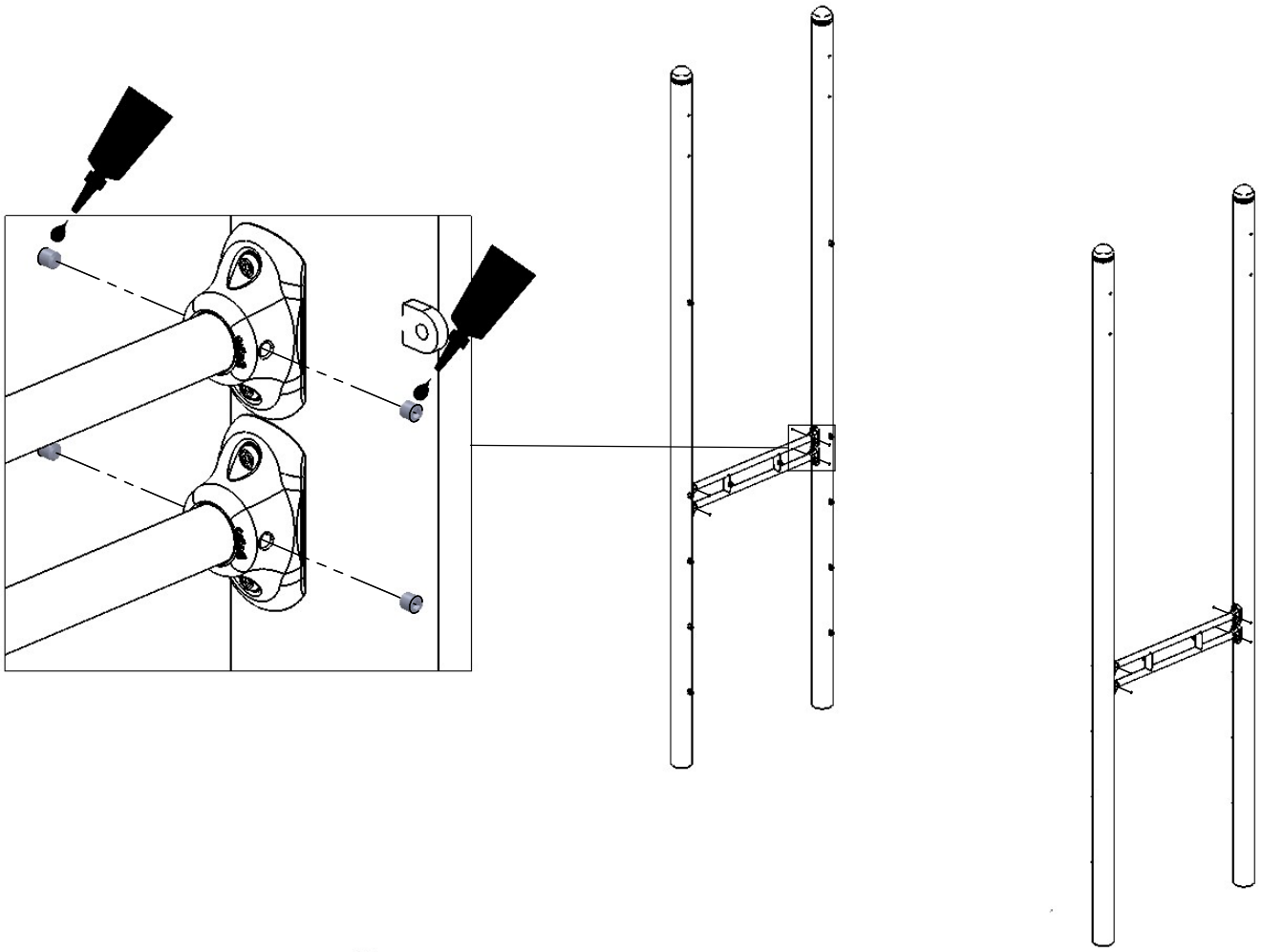
Nr. 17

1

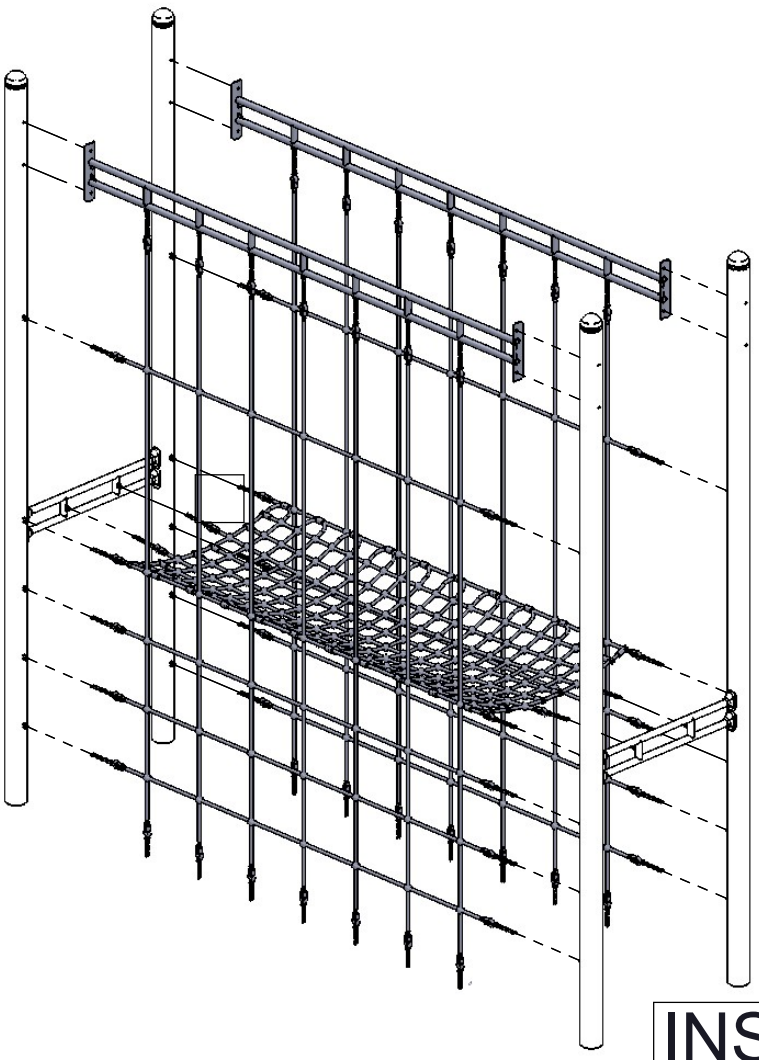




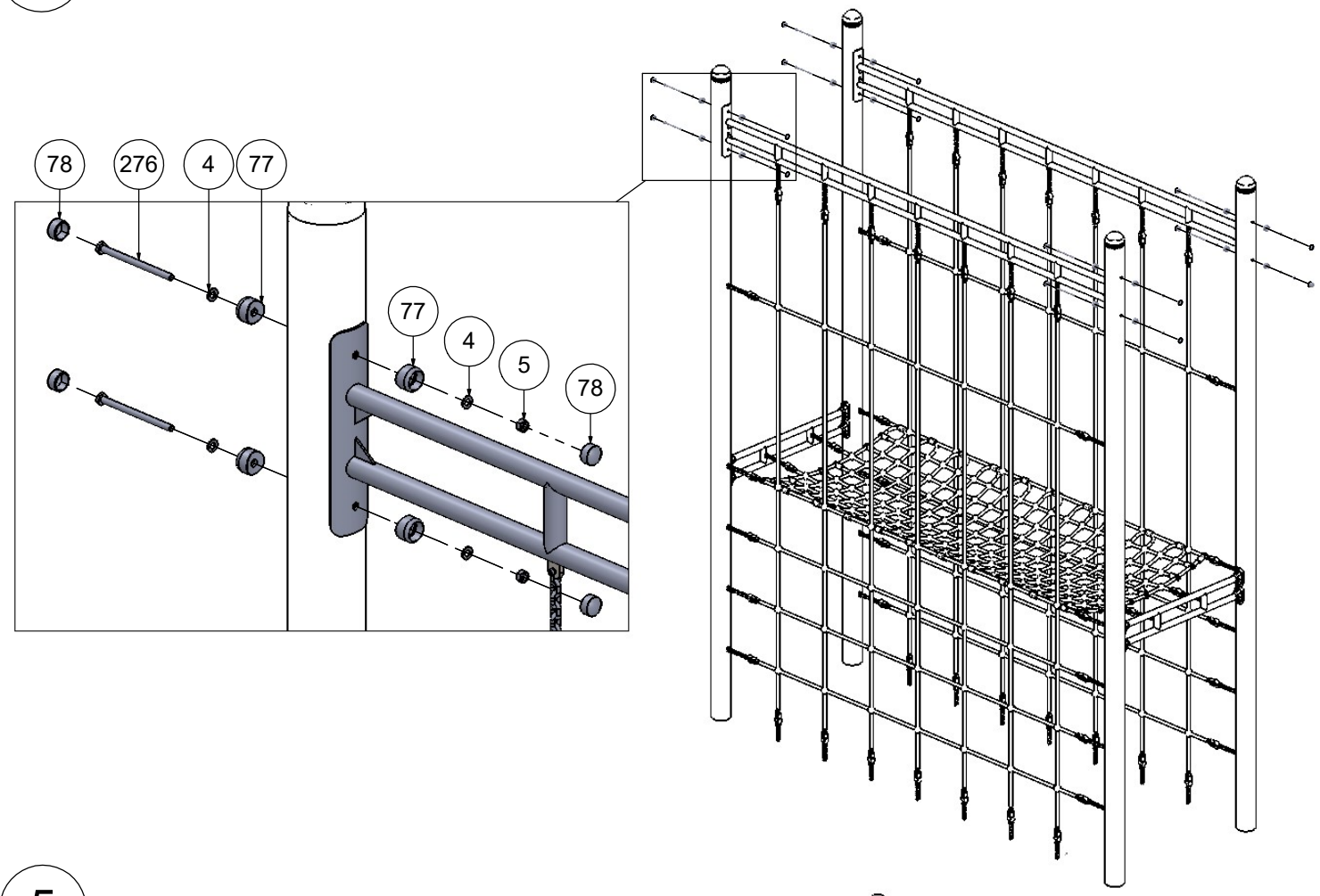
2



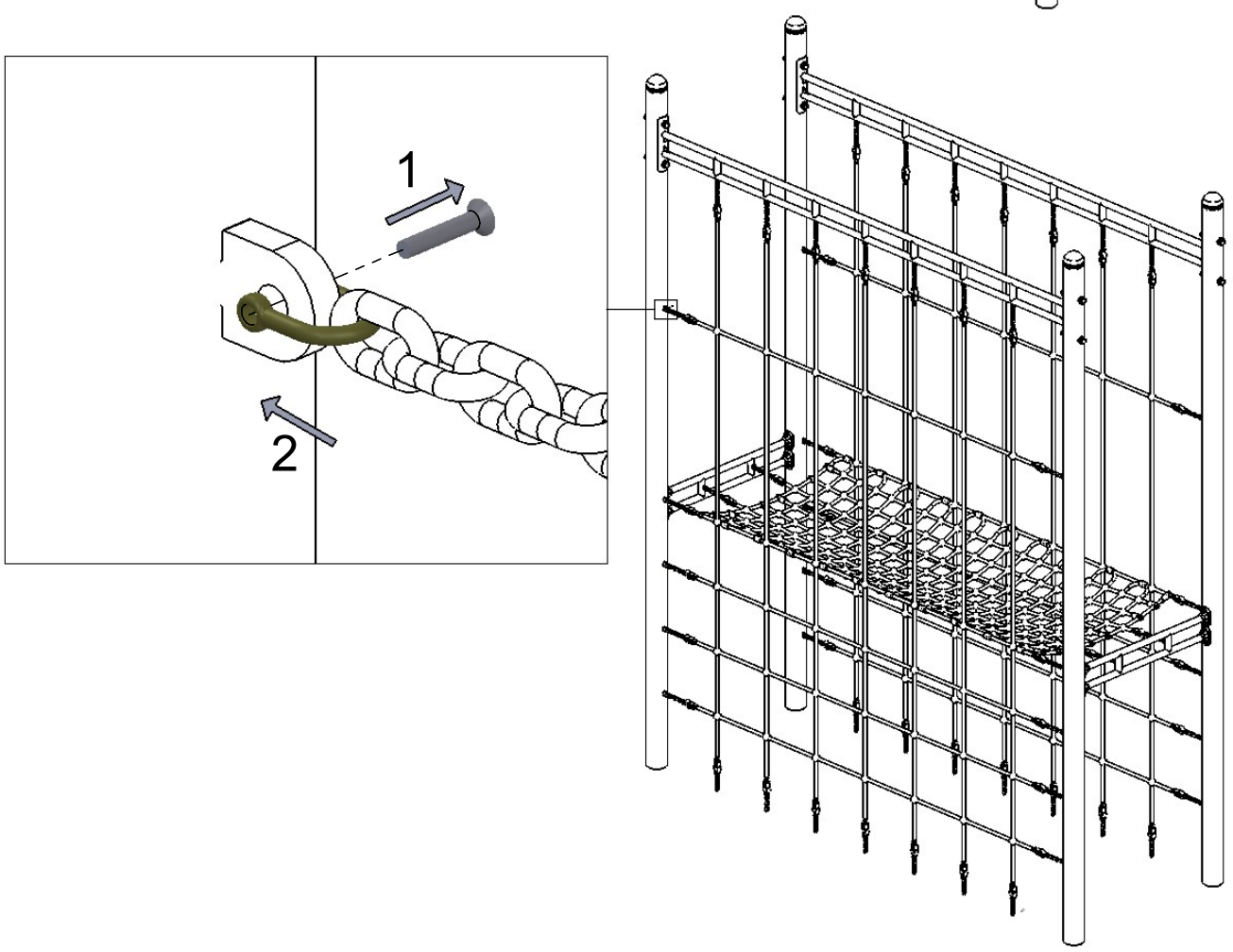
3



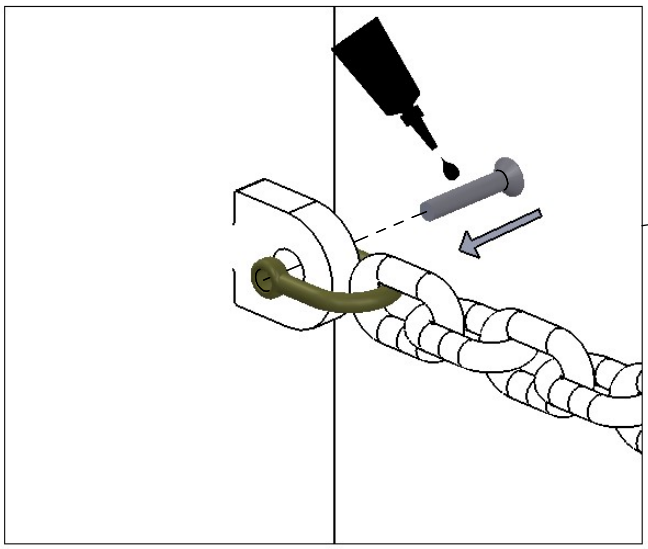
4

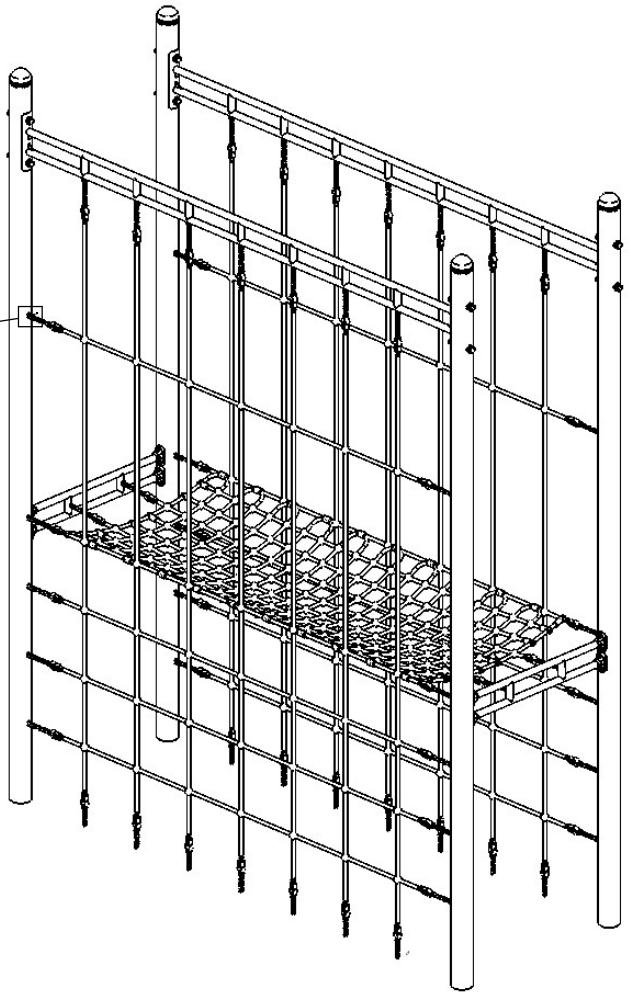


5



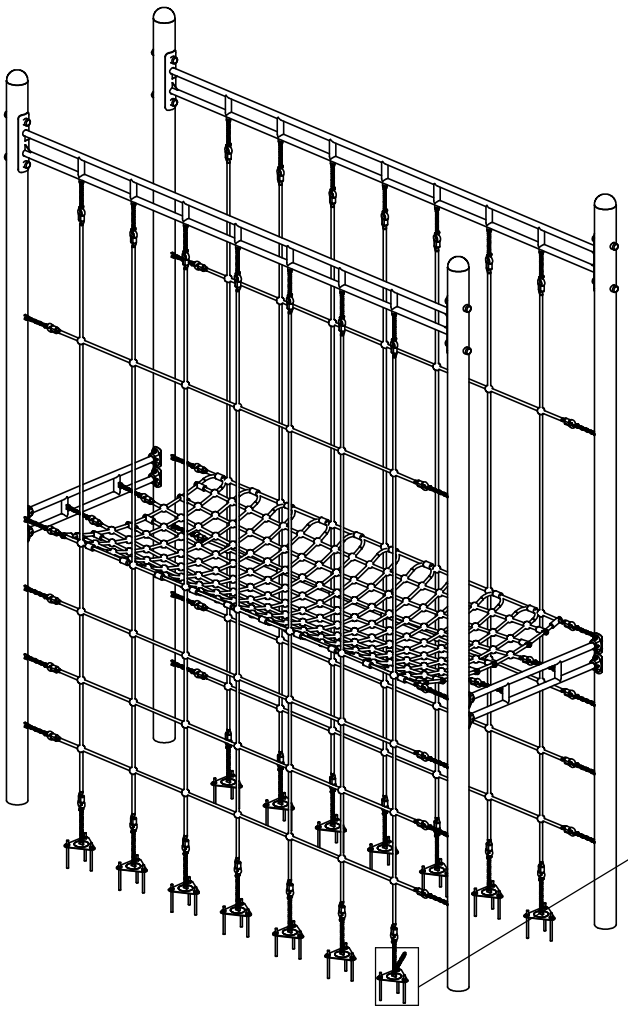
6

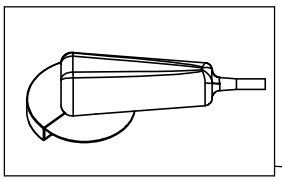


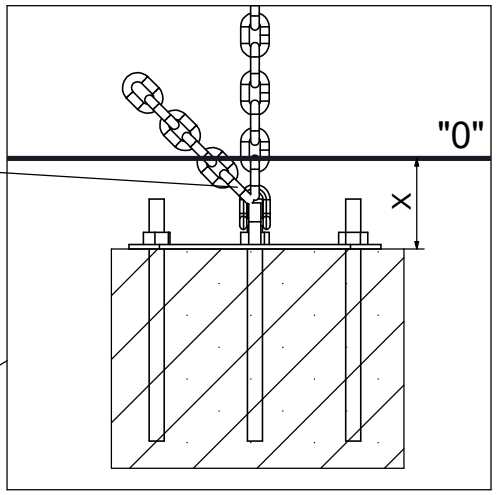


7

Nr	Σ	Element		
61	42		-	KL105







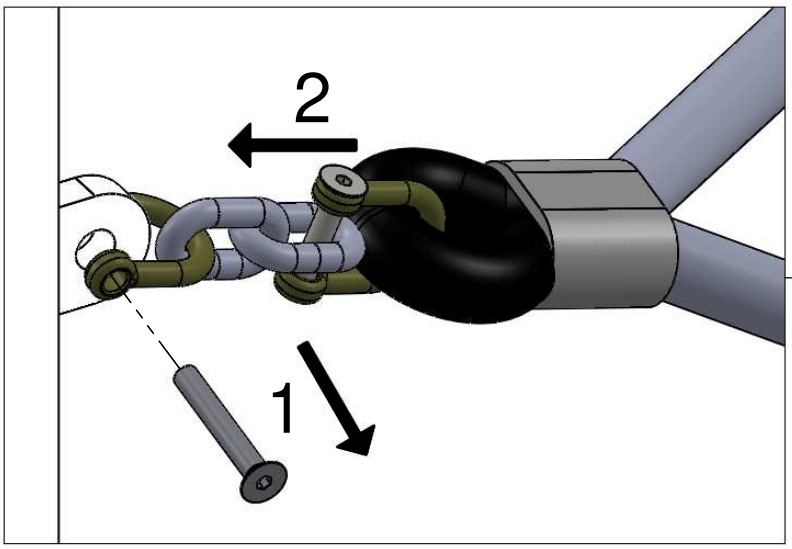
INST_12_97

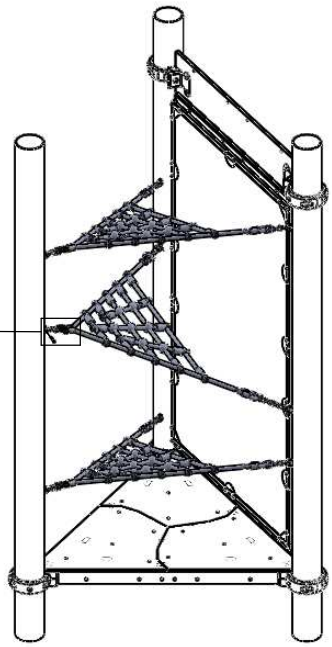
Nr	Σ	Element		
58	1		-	LOCTITE



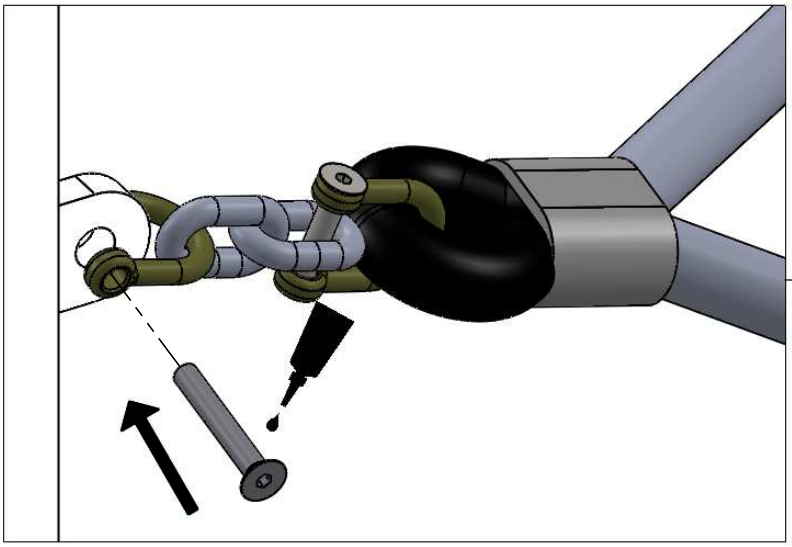
Nr. 4

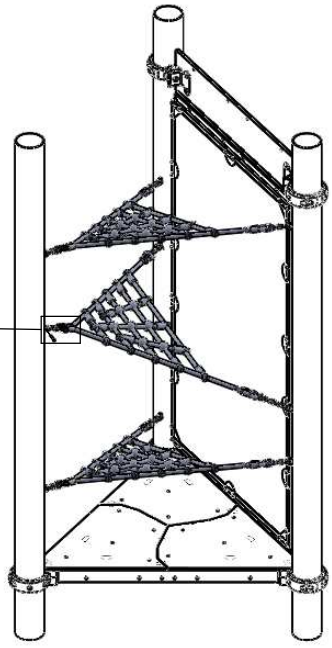
1



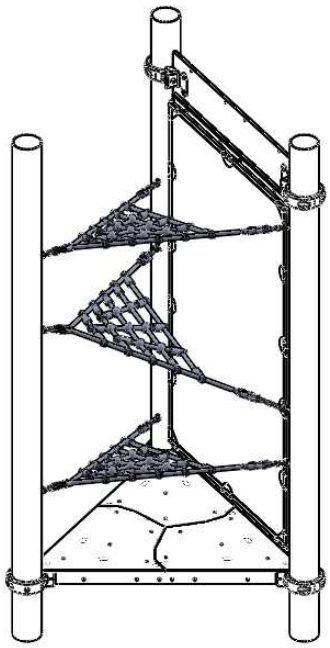


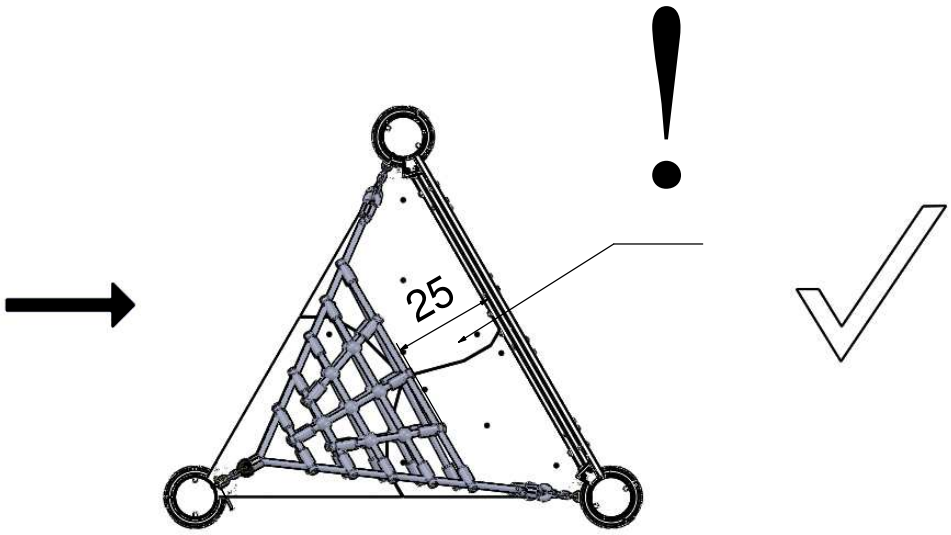
2

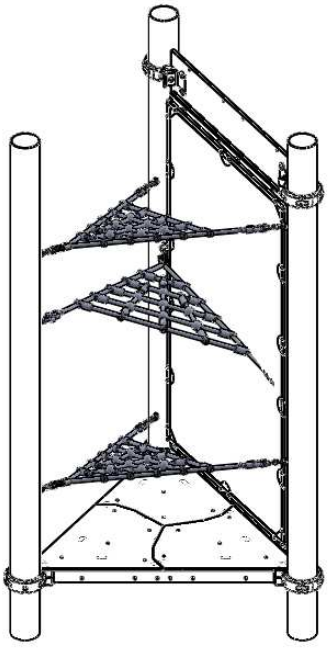


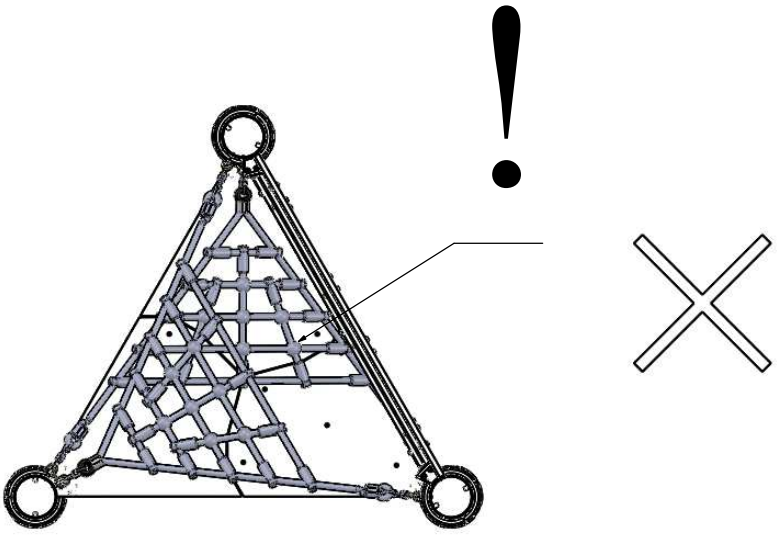


3

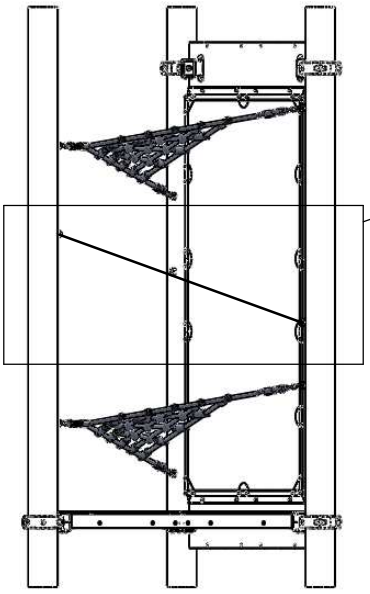


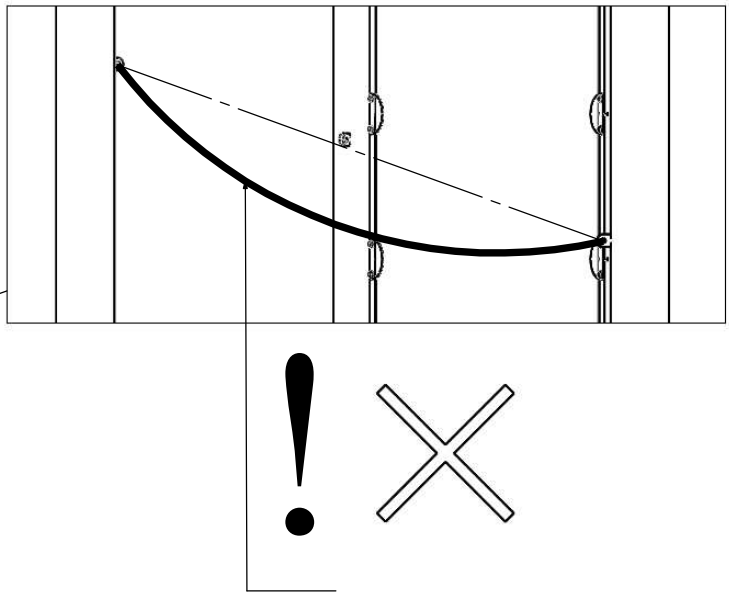


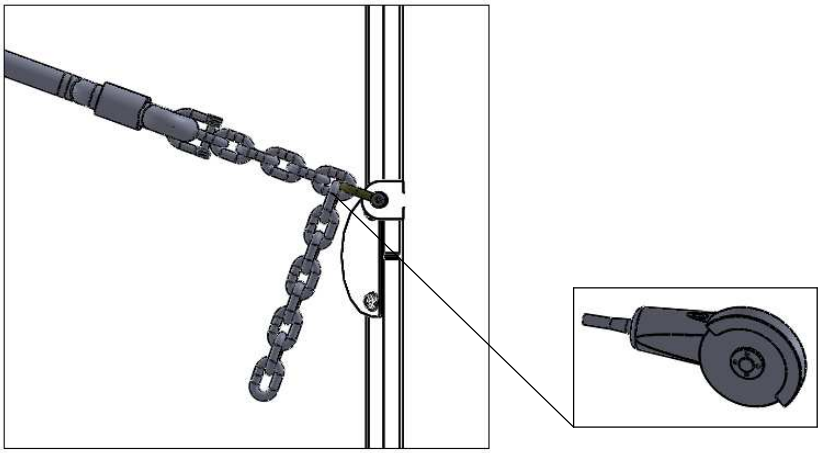


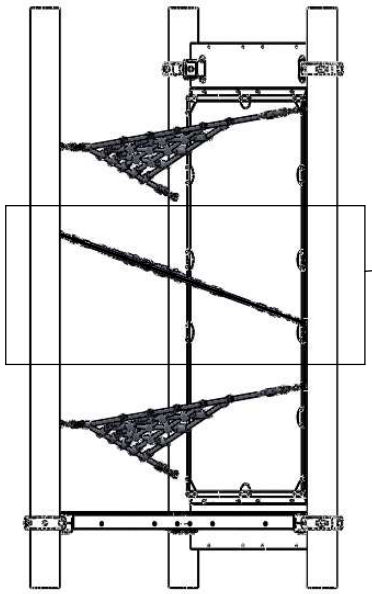


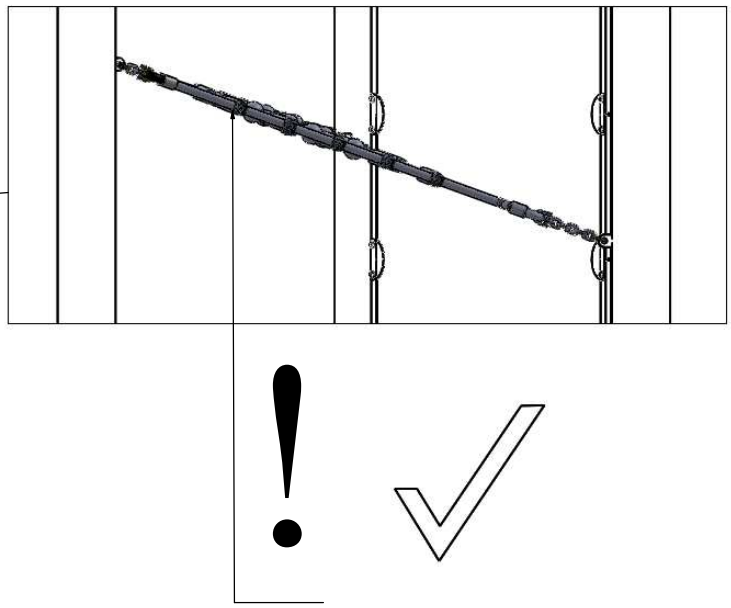
4











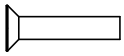
INST_12_97 3/3

INST_12_98

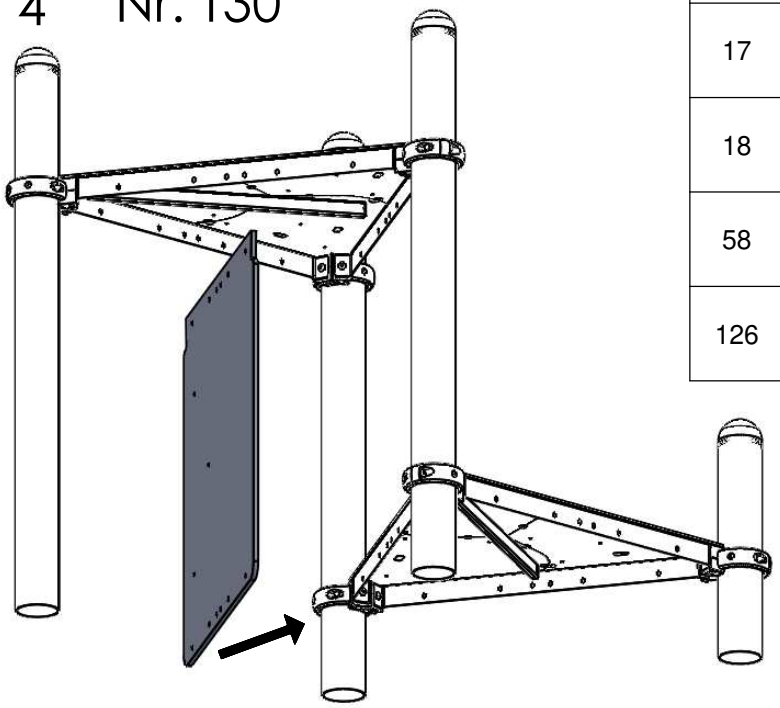




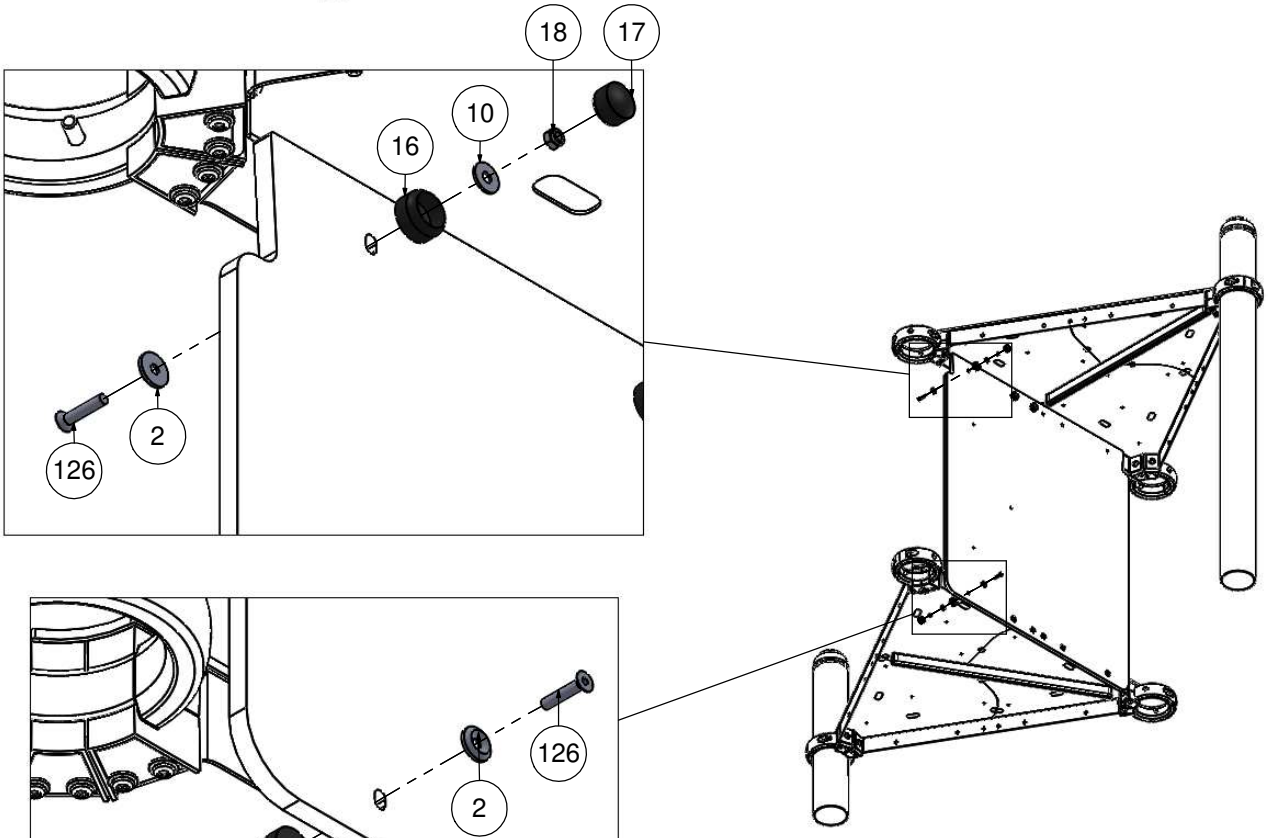
Nr. 4 Nr. T30

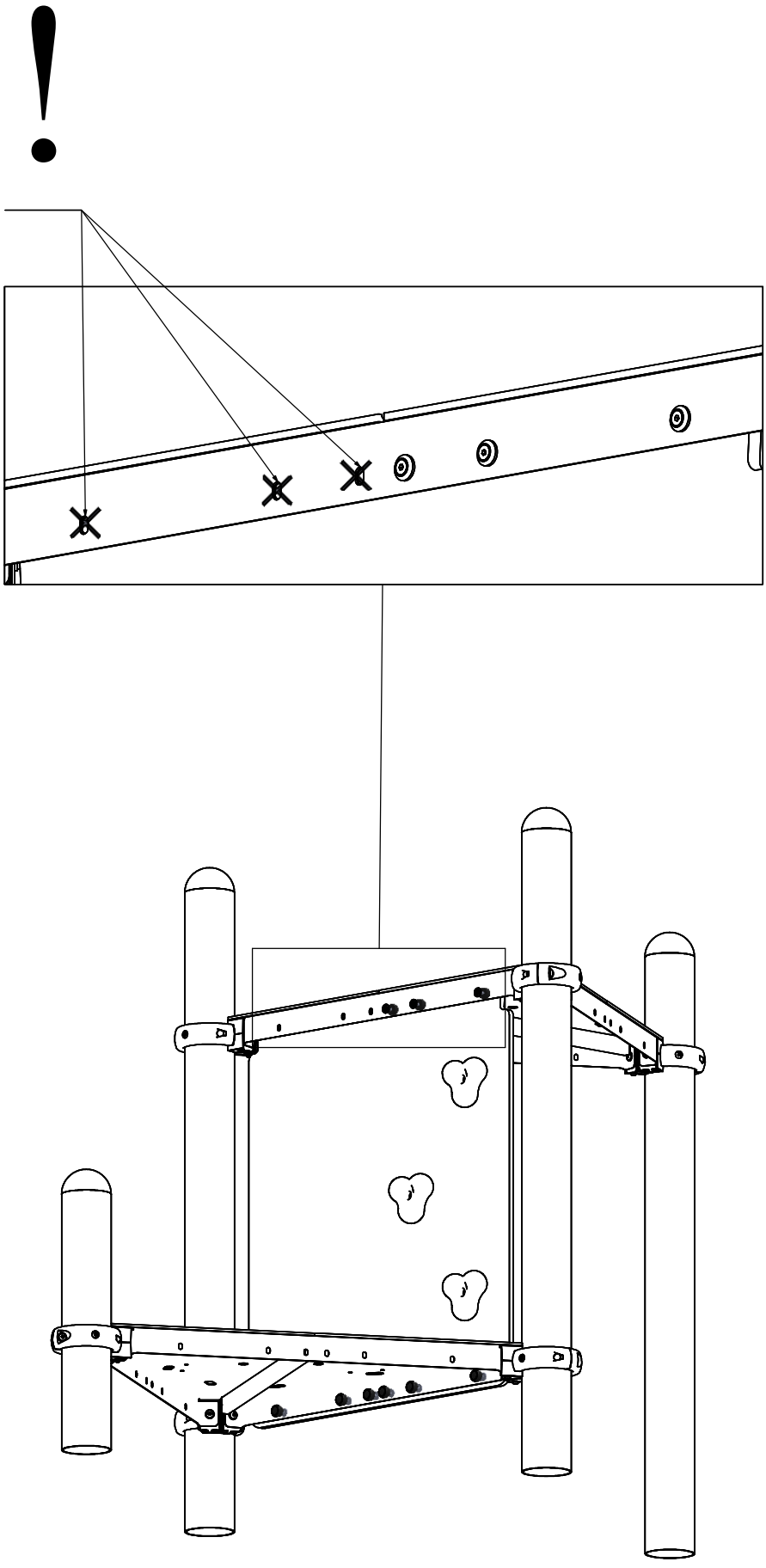
Nr	Σ	Element		
2	9		-	W6x60
10	9		DIN 9021	6x18
16	9		-	K1_d21_B
17	9		-	Z1_d21_B
18	9		DIN 985	M6 (OC)
58	1		-	LOCTITE
126	9		DIN 7991	M6x30

1



2





INST_12_99



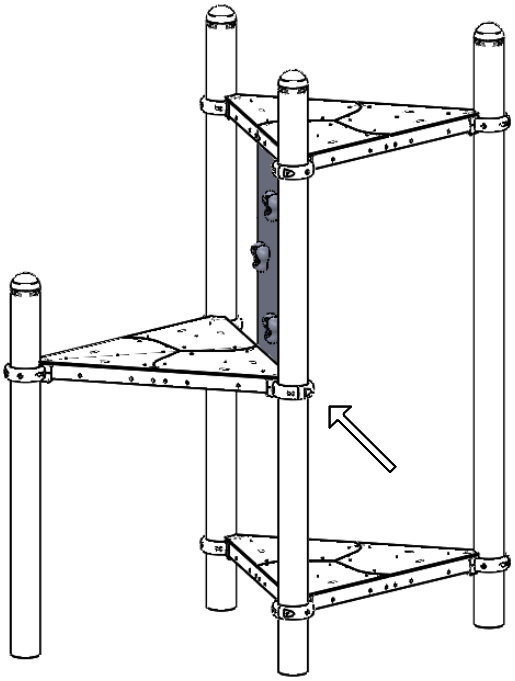
Nr. 4



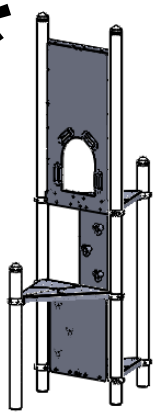
Nr. T30

Nr	Σ	Element		
2	6		-	W6x60
10	6		DIN 9021	6x18
16	6	⌀2,1	-	K1_d21_B
17	6	⌀2,1	-	Z1_d21_B
18	6		DIN 985	M6 (OC)
58	1		-	LOCTITE
126	6		DIN 7991	M6x30

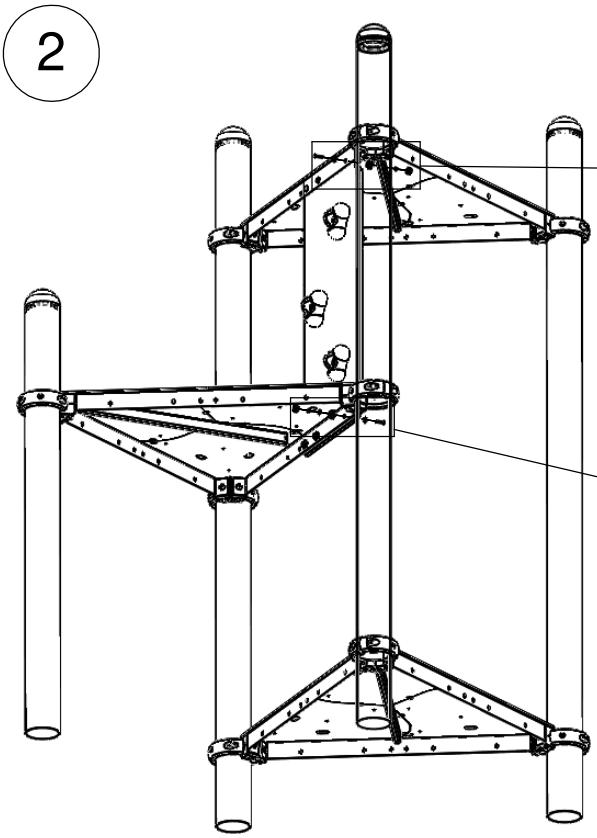
1

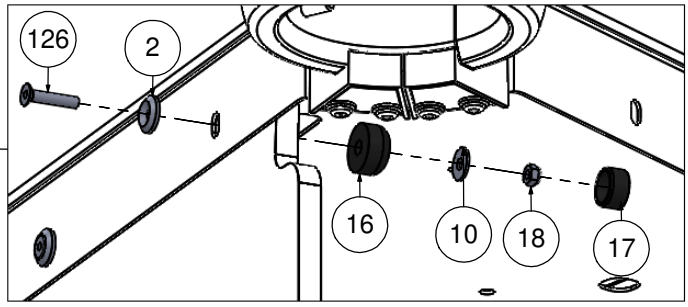


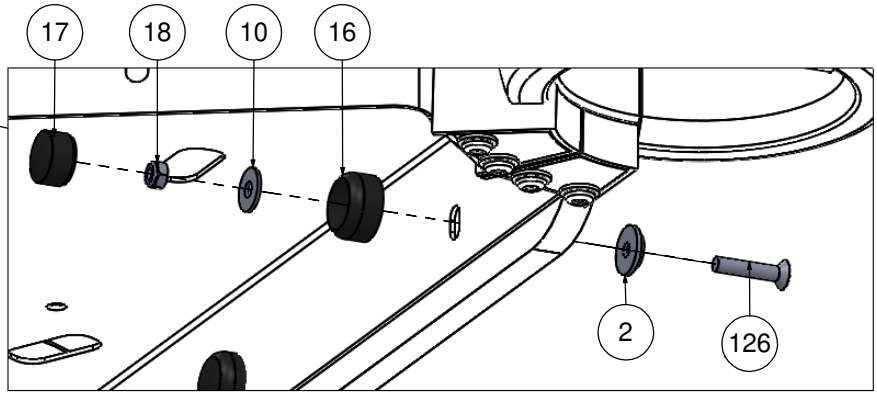
*



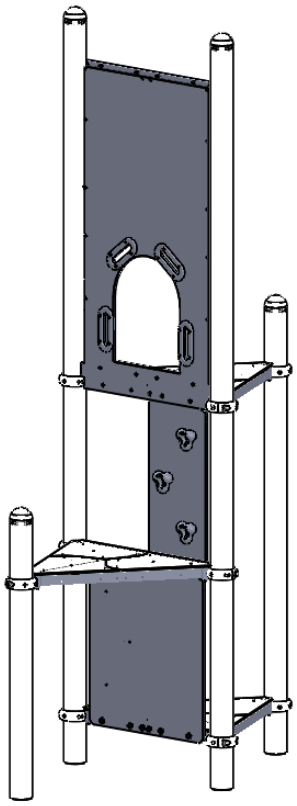
2

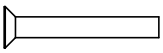


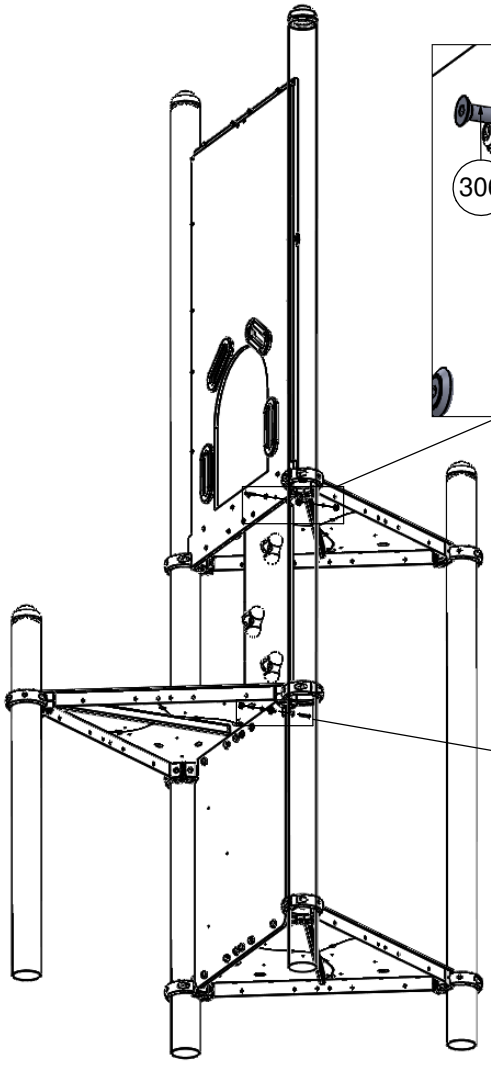


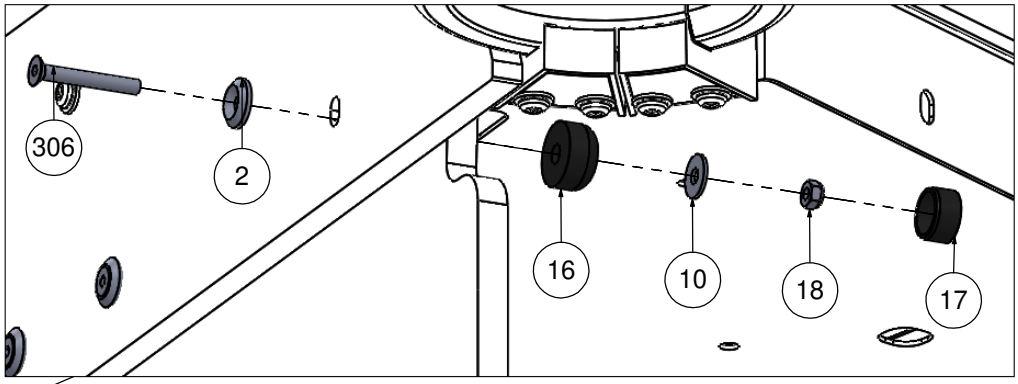


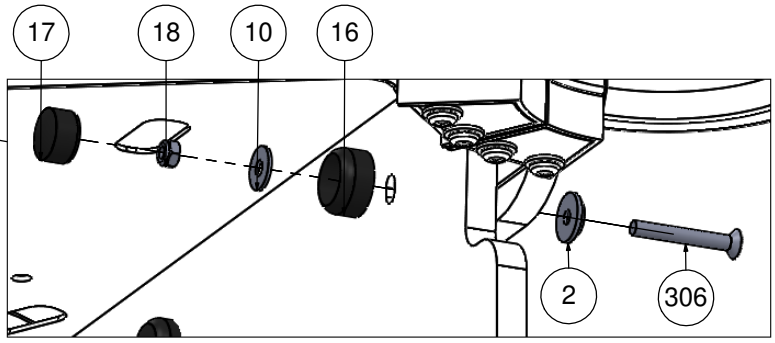
*



Nr	Σ	Element		
2	6		-	W6x60
10	6		DIN 9021	6x18
16	6		-	K1_d21_B
17	6		-	Z1_d21_B
18	6		DIN 985	M6 (OC)
58	1		-	LOCTITE
306	6		DIN 7991	M6x45

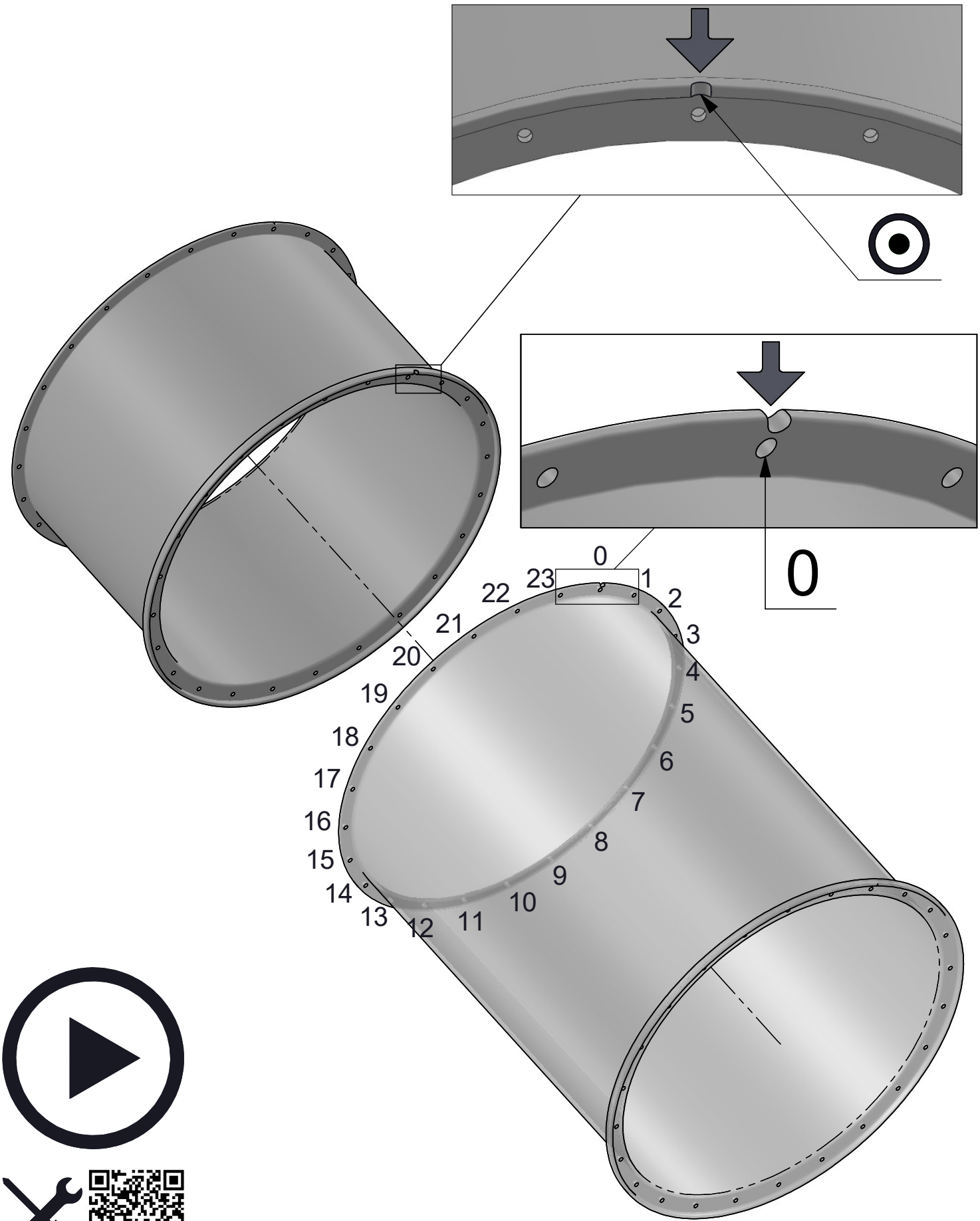






INST_12_99 2/2

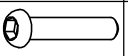
INST_MTS_2

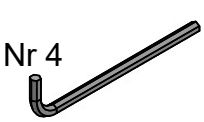


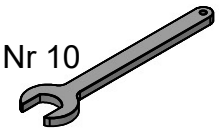
buglo.pl/mts-manual

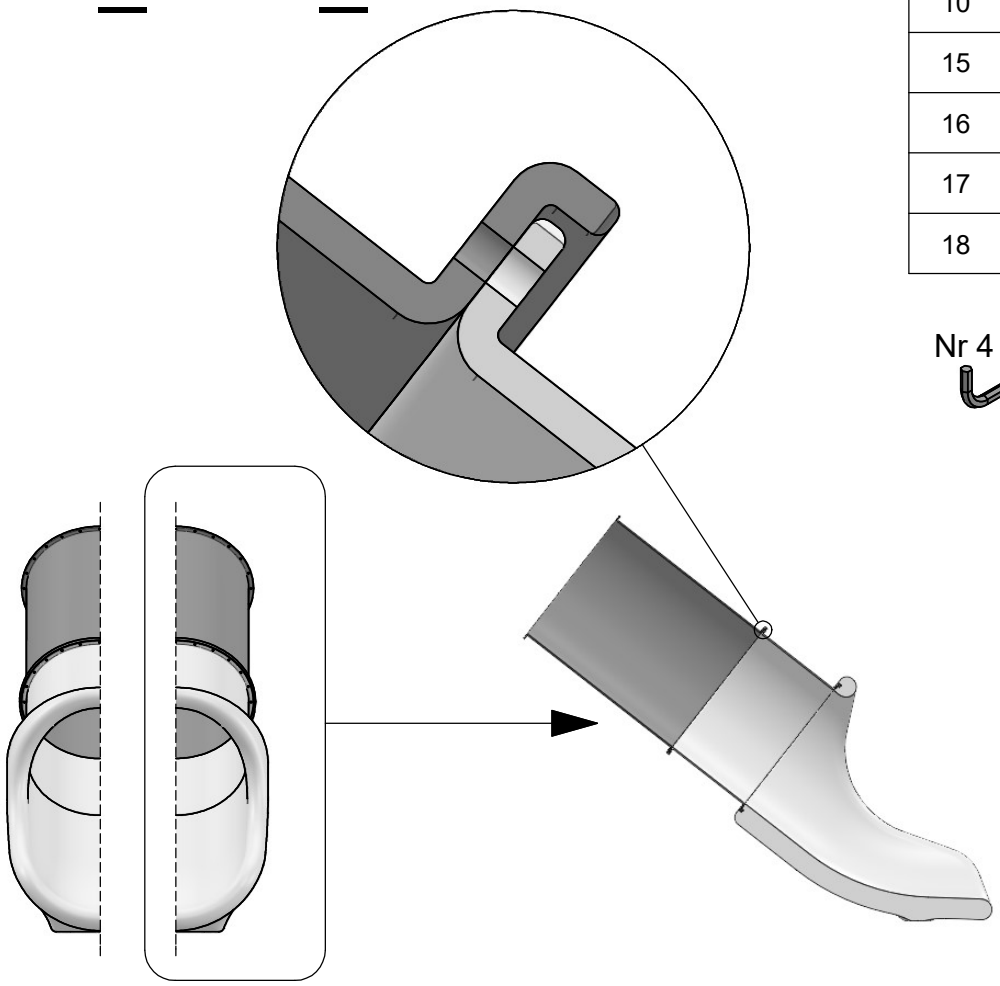
MANUAL

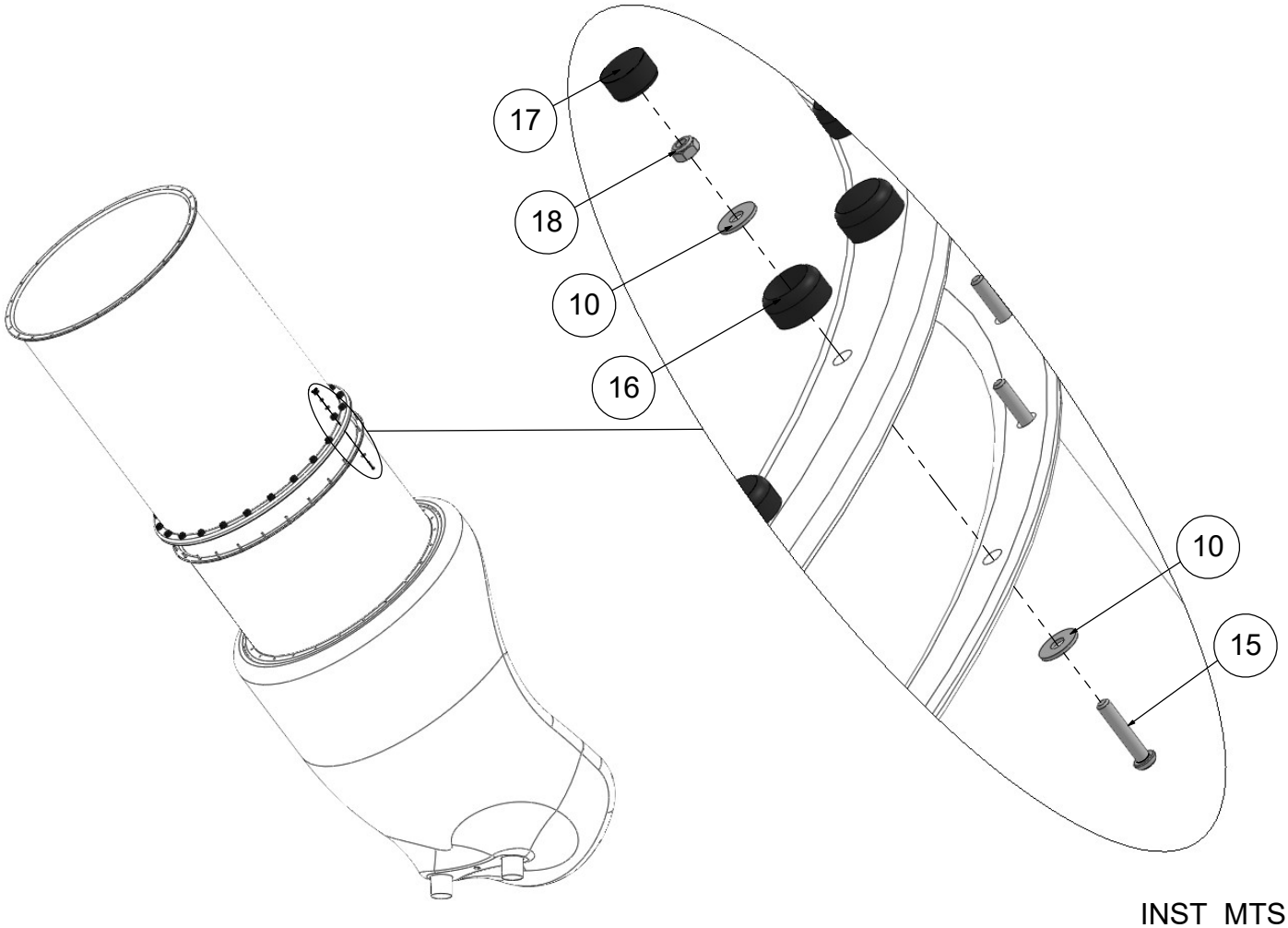
INST_MTS_3

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



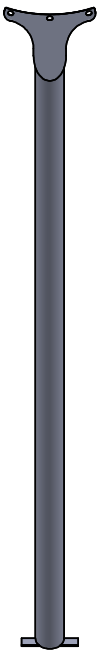




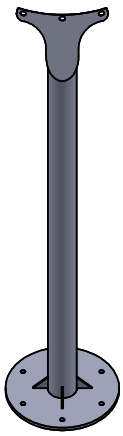


INST_MTS_4

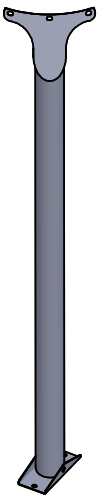
N

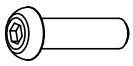
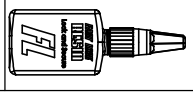


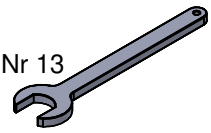
F*



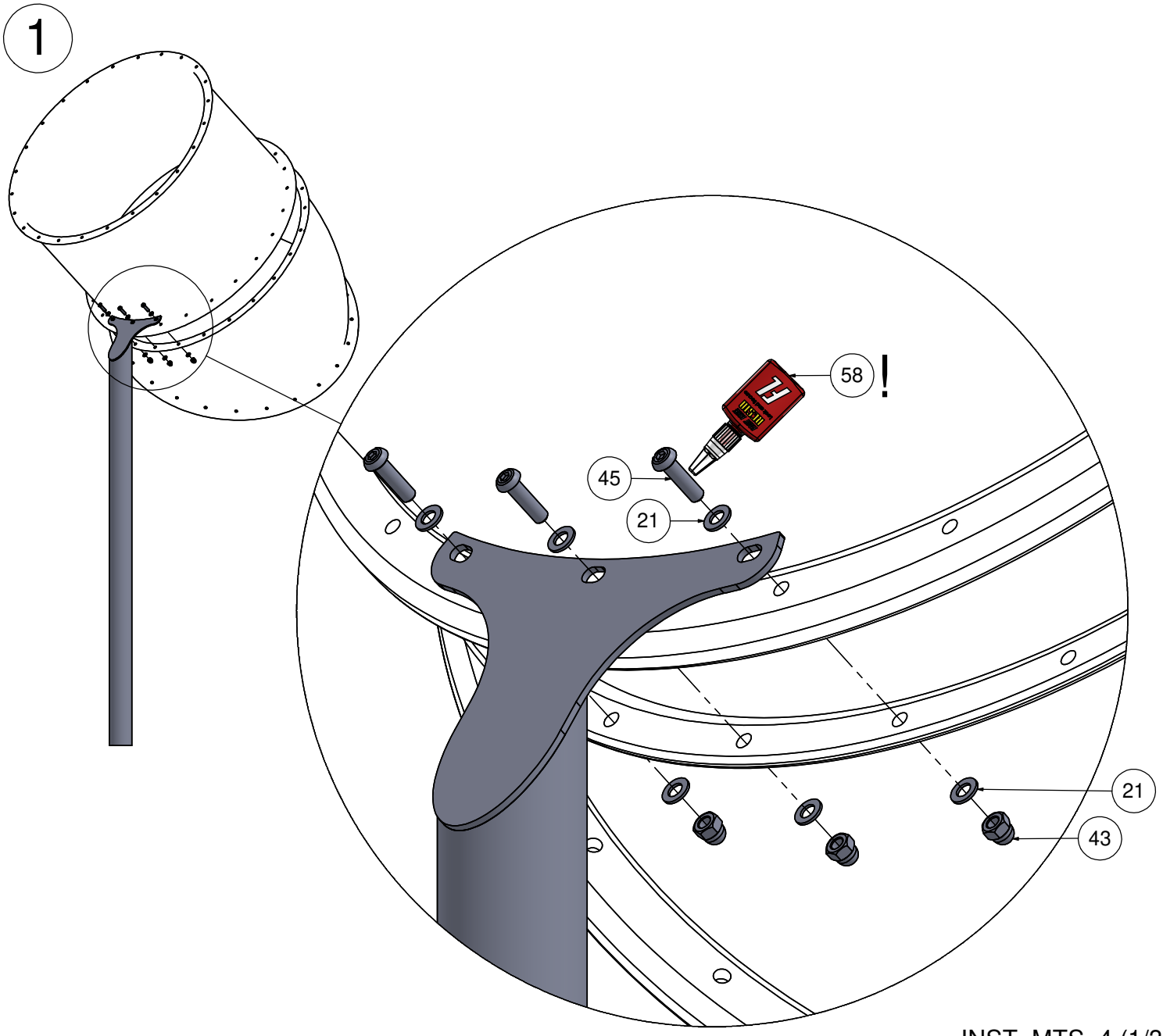
F**



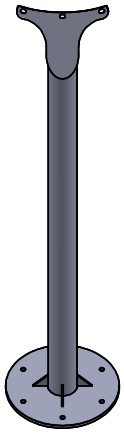
Nr	Σ	Element		
21	6		DIN 125	8x16
43	3		DIN 1587	M8
45	3		ISO 7380	M8x30
58	1		-	LOCTITE

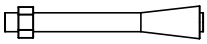


1



F*

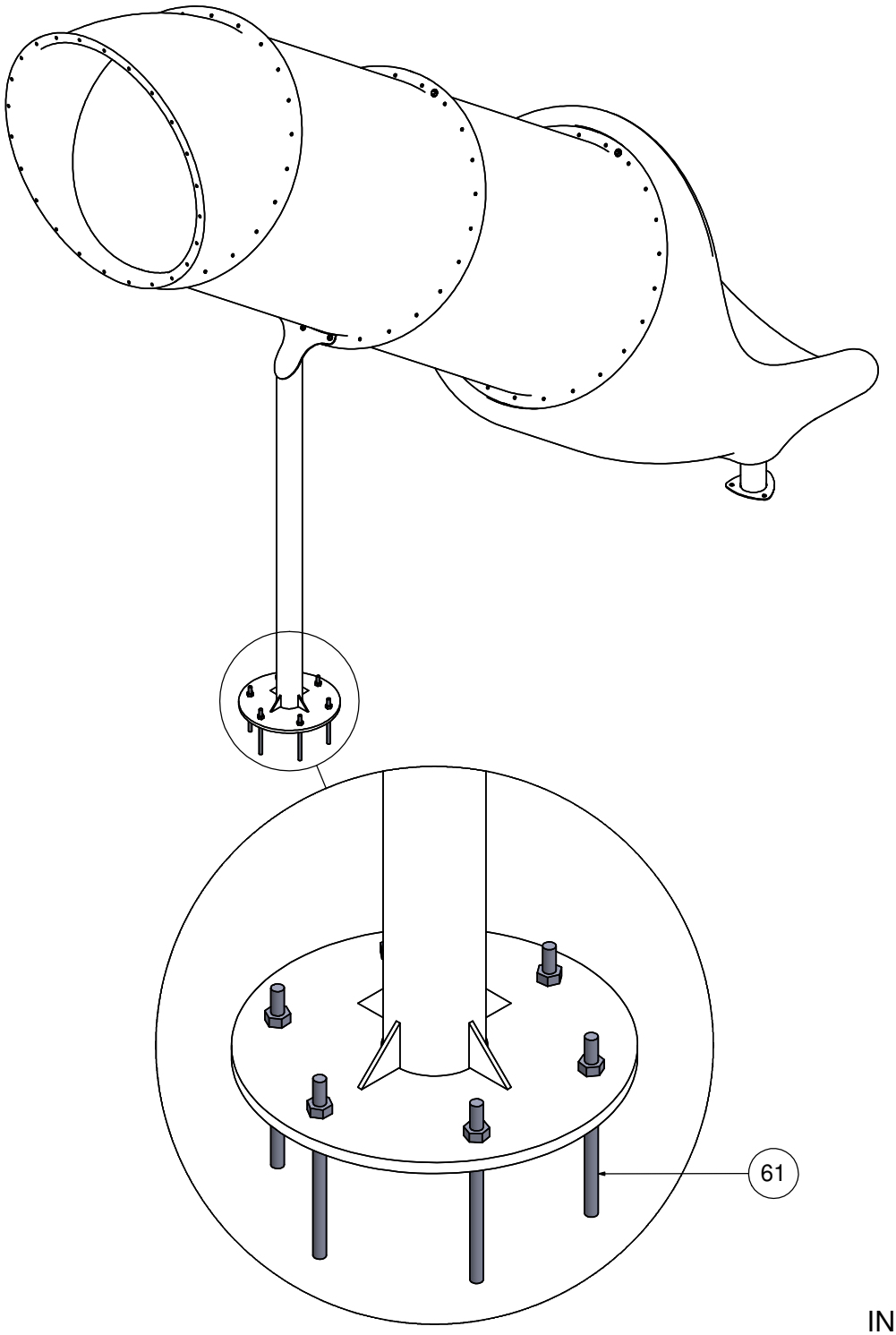


Nr	Σ	Element	DIN	ELEMENT
61	6		-	KL105

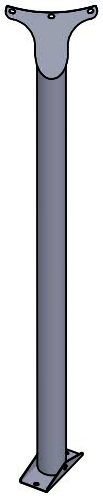
Nr 17

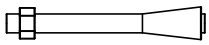
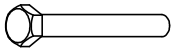
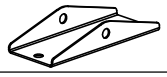


2F*

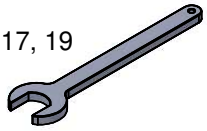


F**

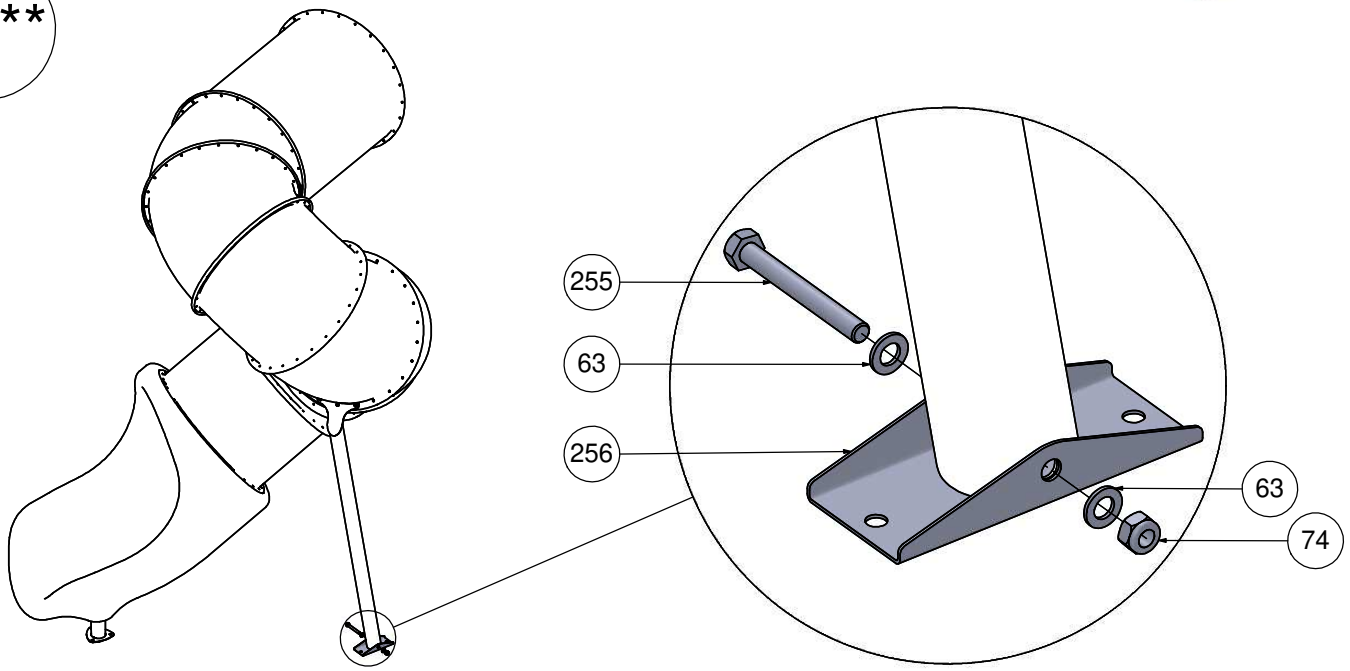


Nr	Σ	Element		
61	2		-	KL105
63	2		DIN 125	12x24
74	1		DIN 985	M12
255	1		DIN 931	M12x100
256	1		-	MTS_5_g2_G_v1

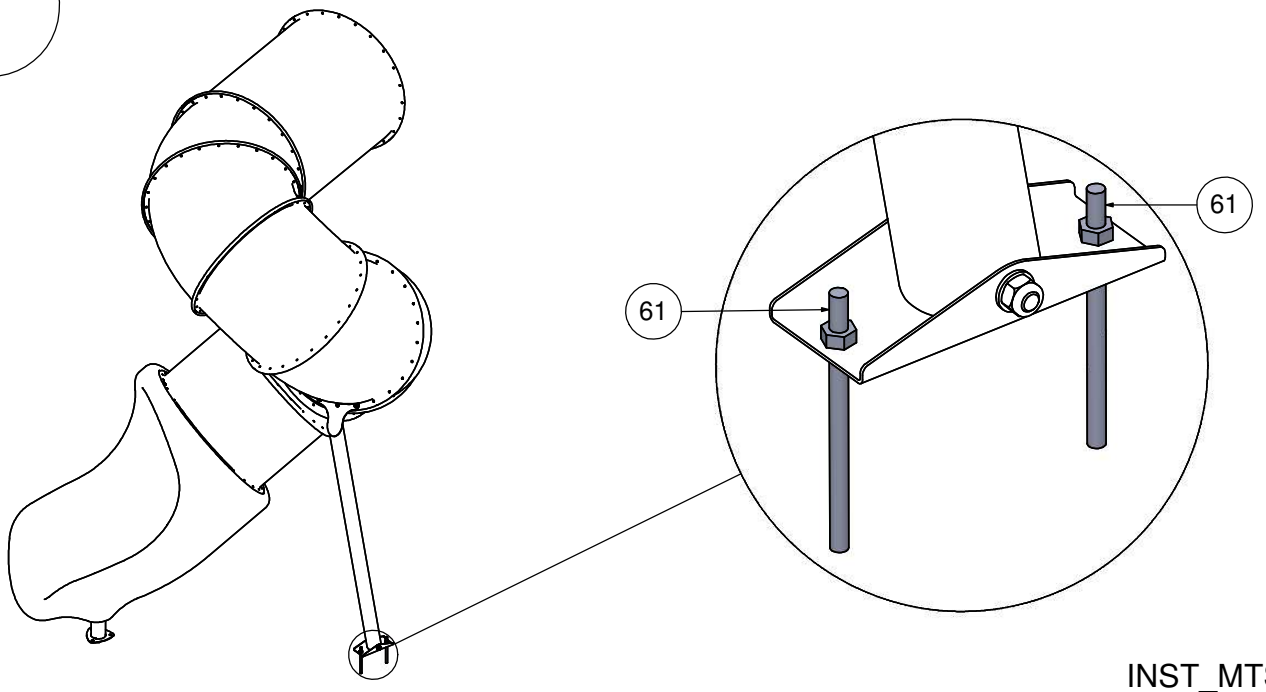
Nr 17, 19



2F**



3F**



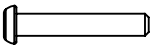
INST_MTS_5



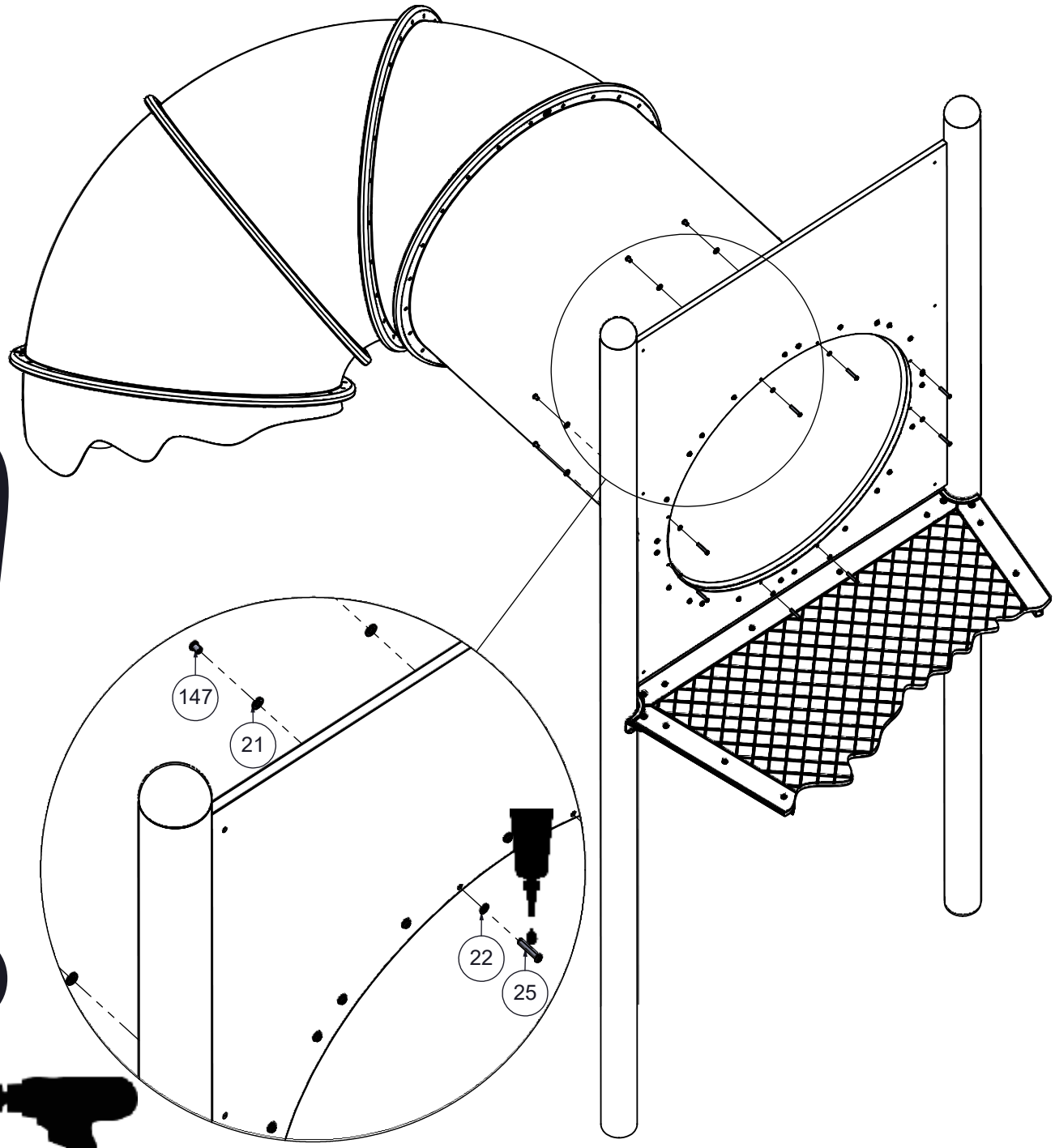
Nr 4, 5

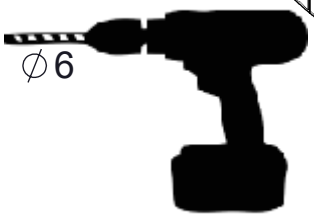


Nr T30

Nr	Σ	Element	DIN	ELEMENT
17	24		-	Z1_d21_B
21	8		DIN 125	8x16
22	8		DIN 125	6x12
25	8		ISO 7380	M6x35
147	8		-	M6x10

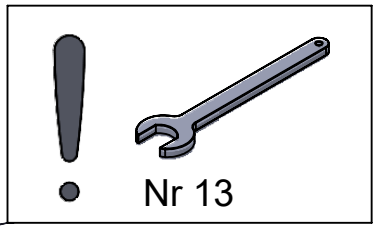
1

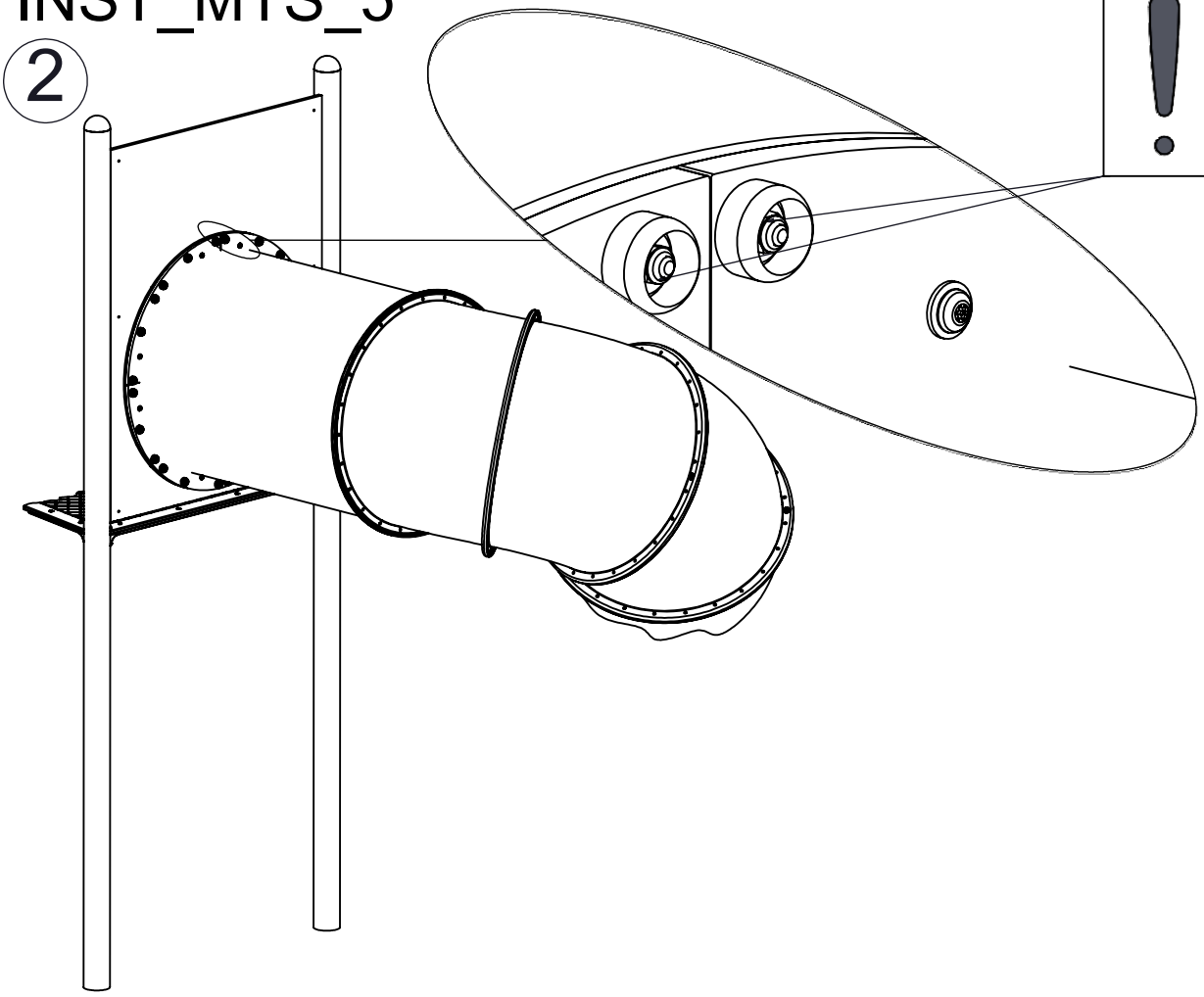




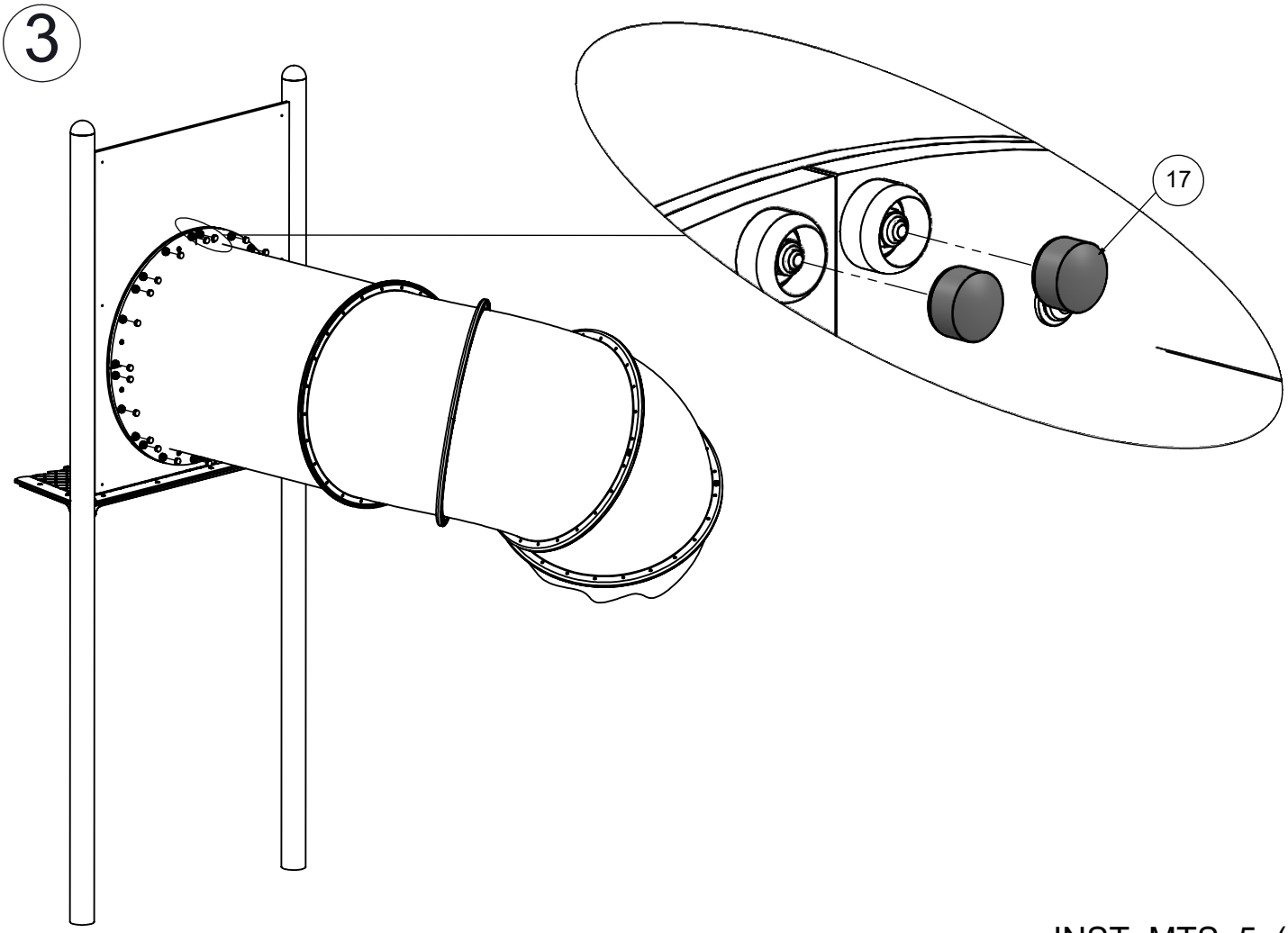
INST_MTS_5

2

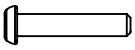


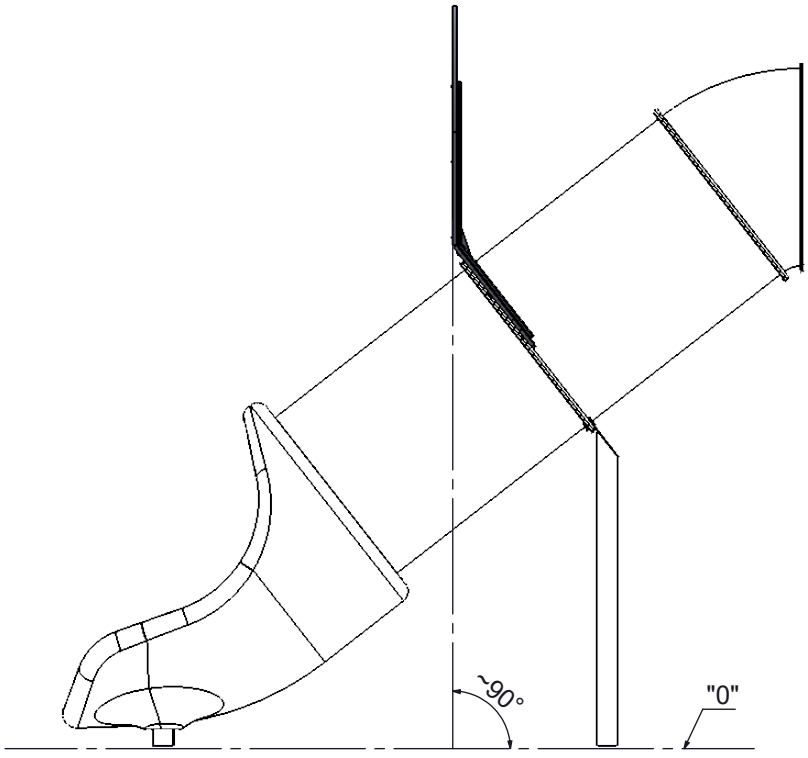


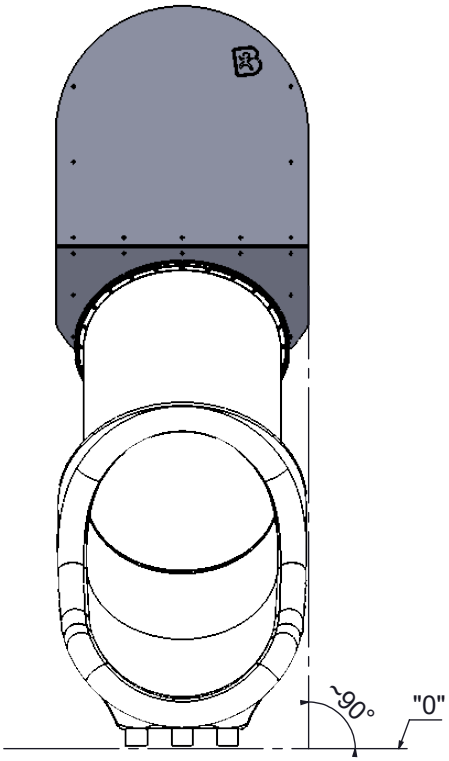
3



INST_MTS_6

Nr	Σ	Element		
10	13		DIN 9021	6x18
15	13		ISO 7380	M6x30
21	13		DIN 125	8x16
147	13		-	M6x10

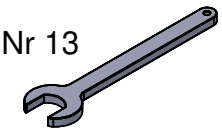


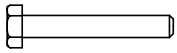
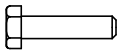


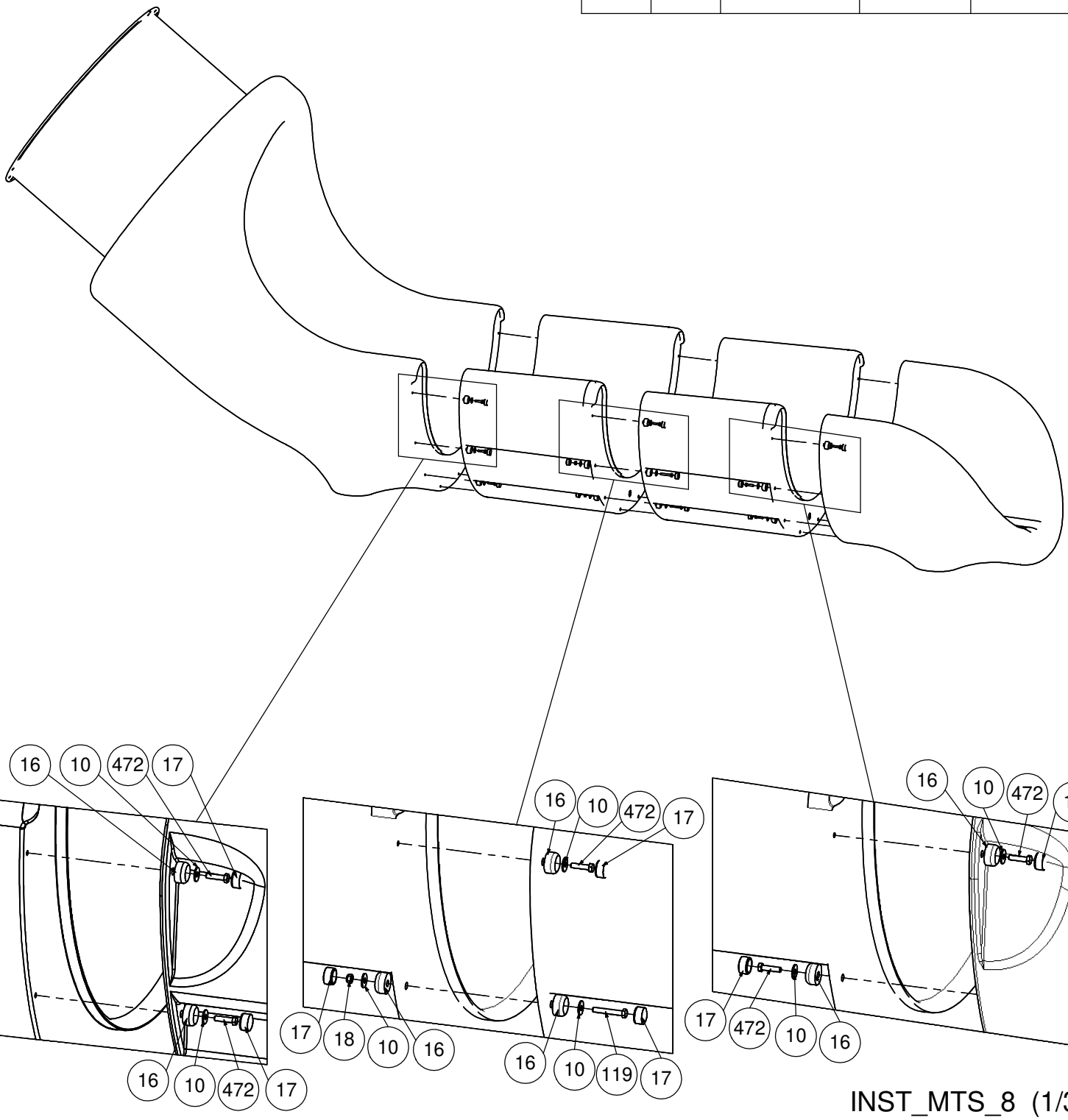
INST_MTS_8

1

Nr 13

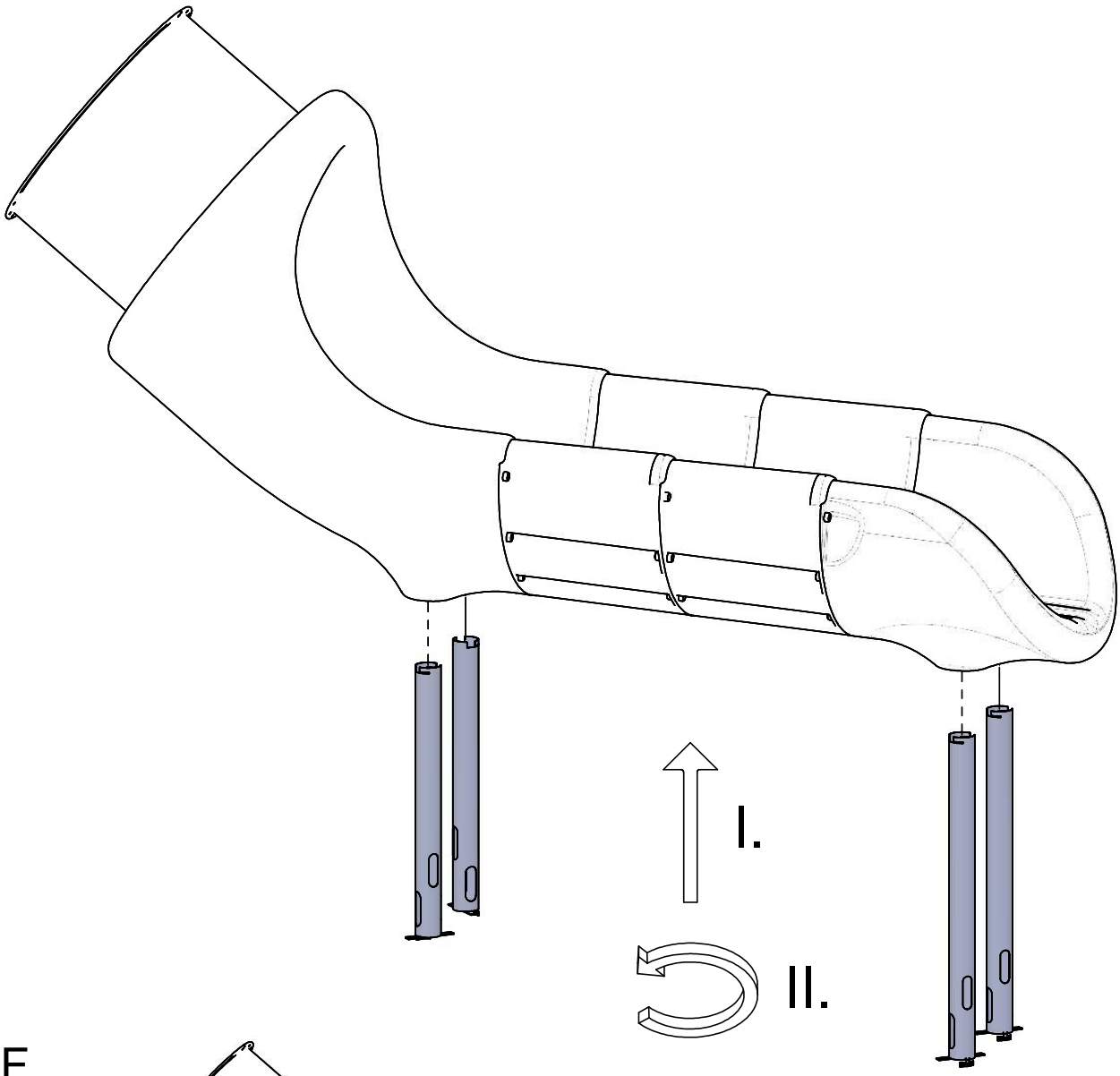


Nr	Σ	Element		
10	30		DIN 9021	6x18
16	30		-	K1_d21_B
17	30		-	Z1_d21_B
18	6		DIN 985	M6 (OC)
119	6		DIN 933	M6x40 (OC)
472	18		DIN 933	M6x25 (OC)

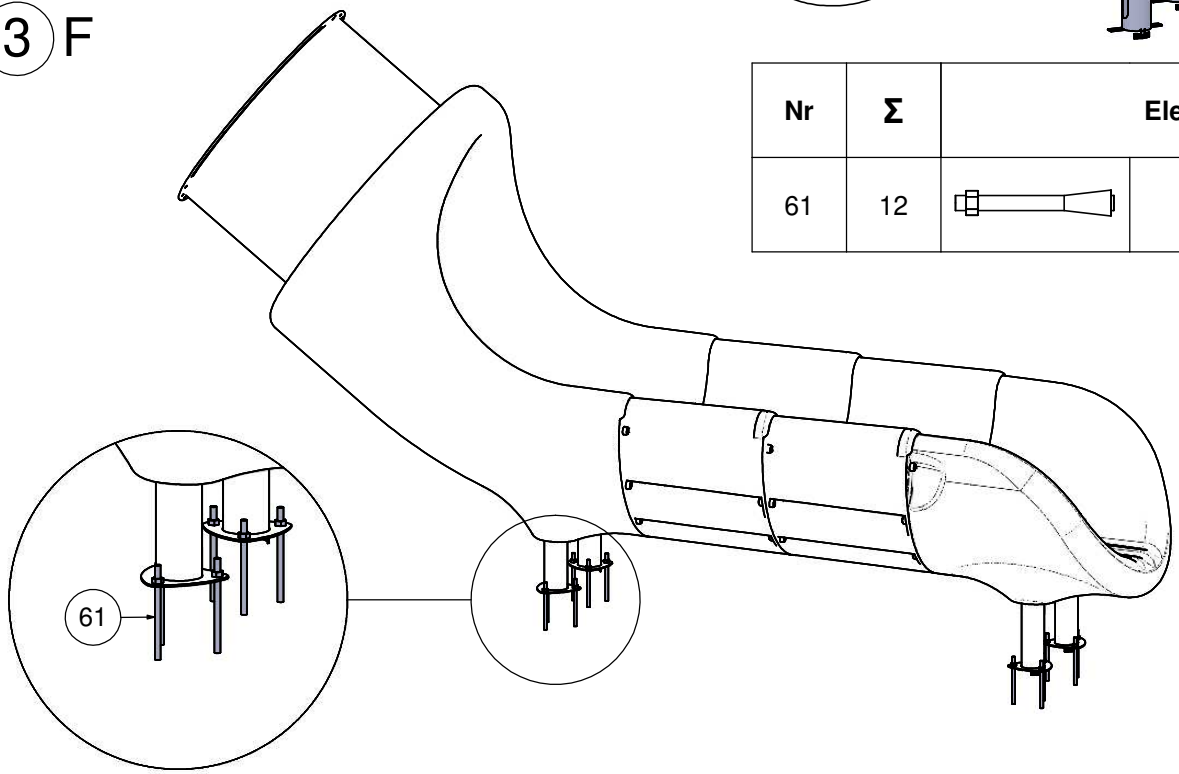


INST_MTS_8

2



3 F



Nr	Σ	Element		
61	12		-	KL105 (OC)

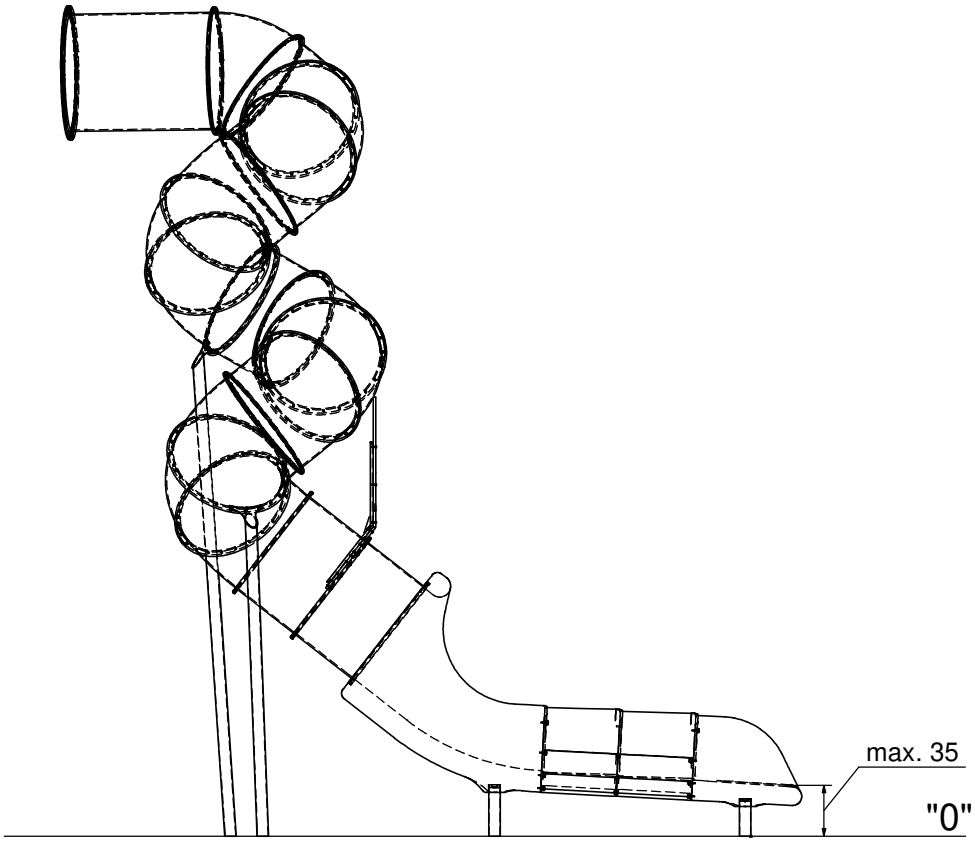
Nr 17

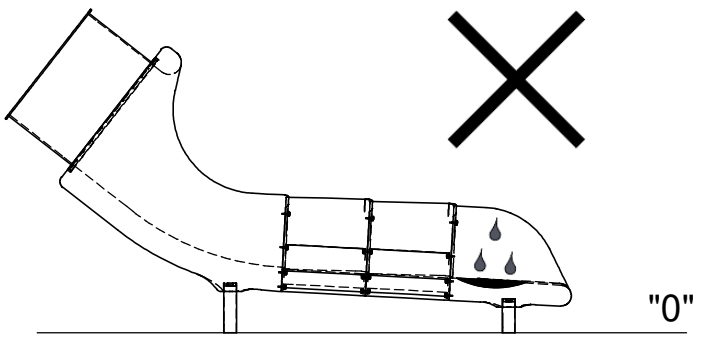


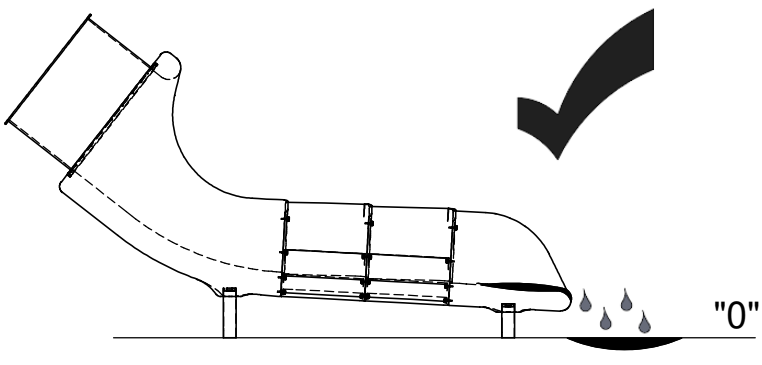
INST_MTS_8

[cm]

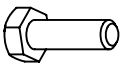
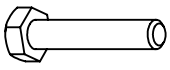
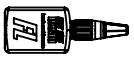
3



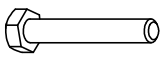


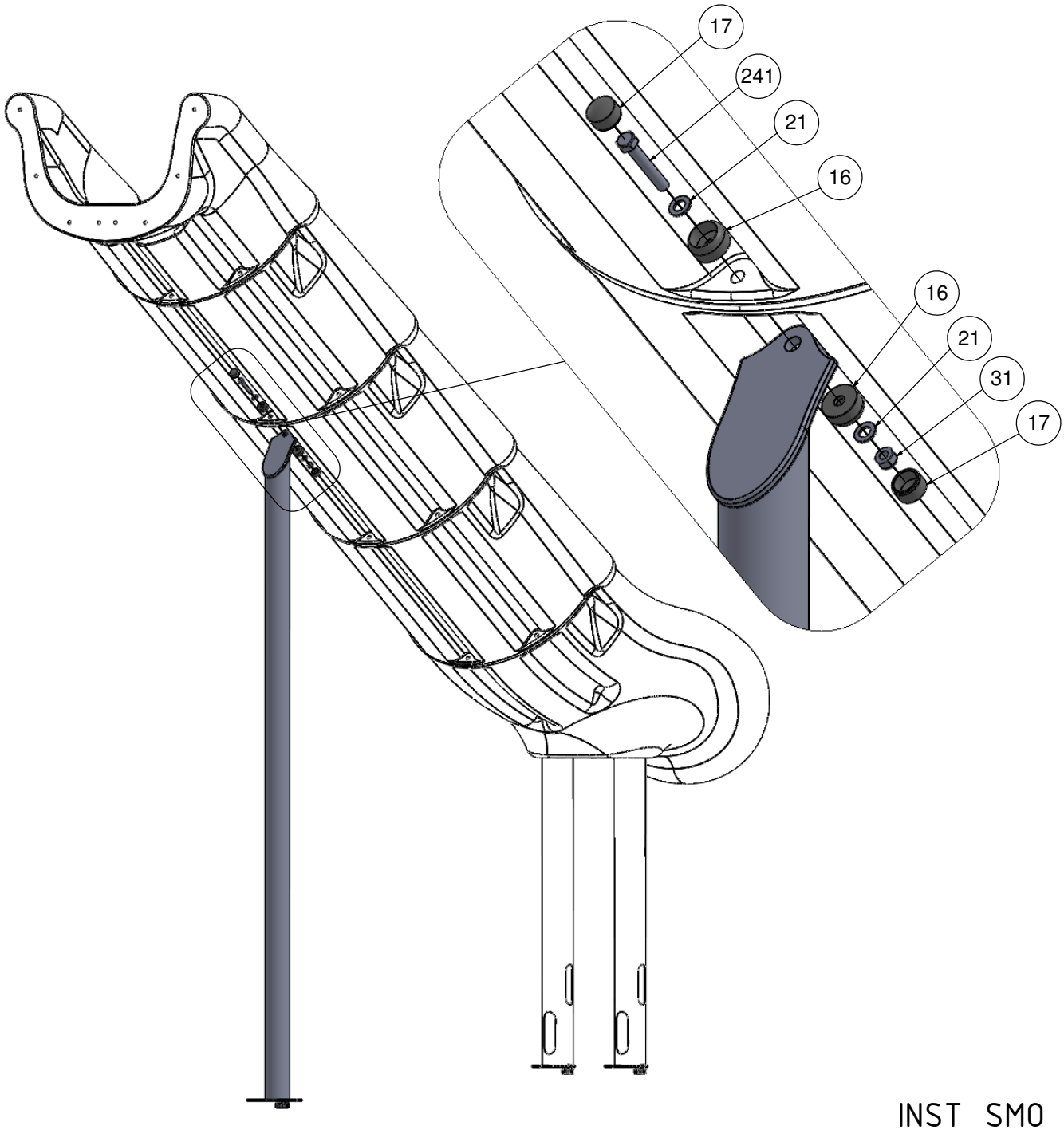


INST_SMO_1

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

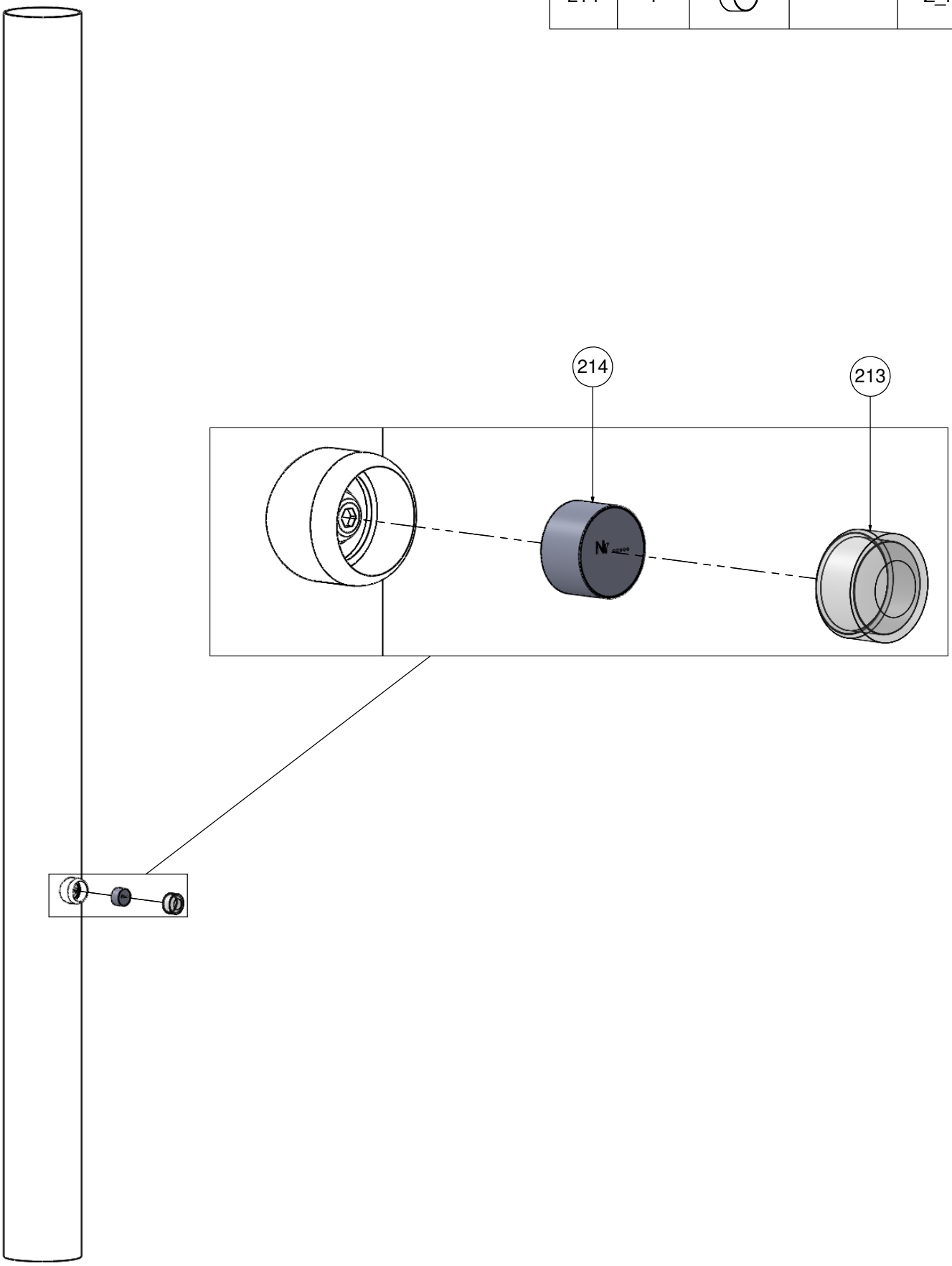
INST_SMO_2

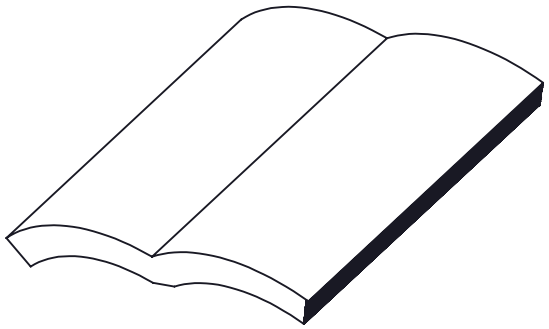
Nr	Element	DIN	ELEMENT
16		-	K1_d21_B
17		-	Z1_d21_B
21		DIN 125	8x16
31		DIN 985	M8
241		DIN 933	M8x50



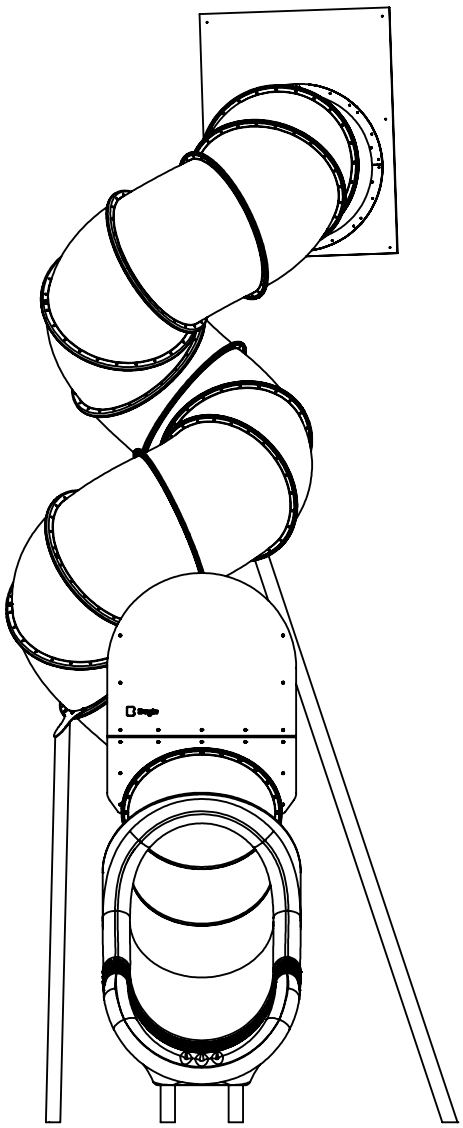
INST_Z_1

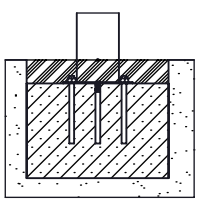
Nr	Σ	Element		
213	1		-	Z_NA_1
214	1		-	Z_NA_2



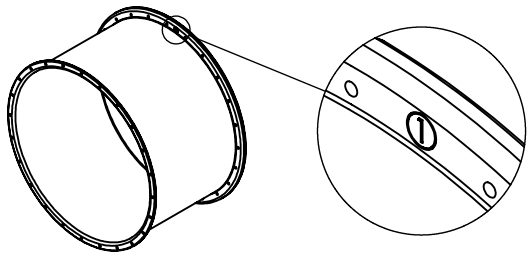
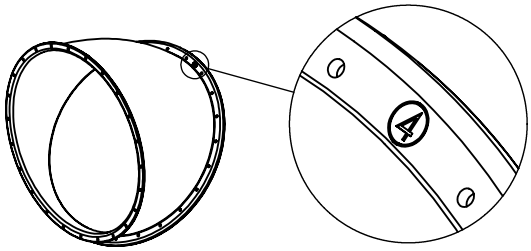
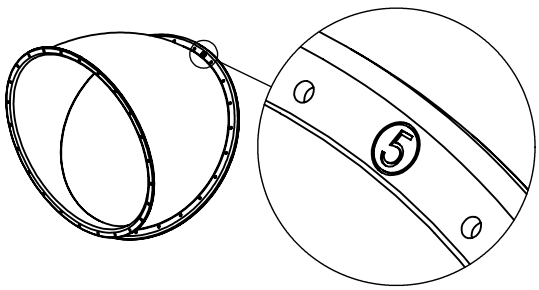


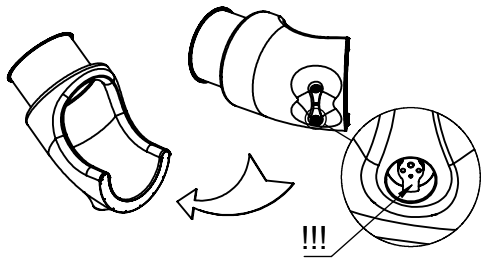
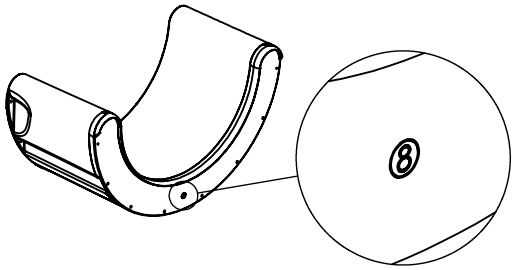
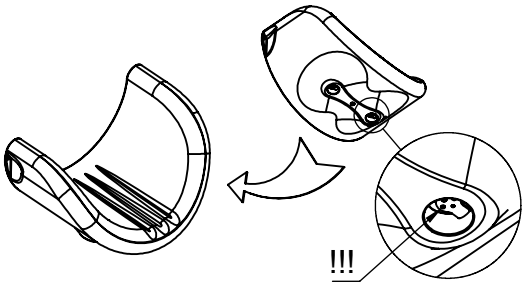
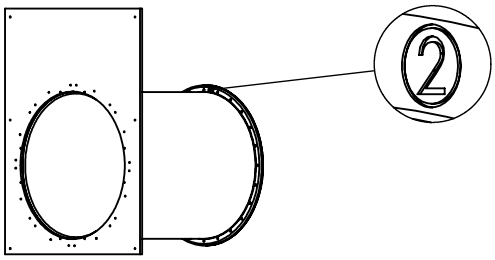
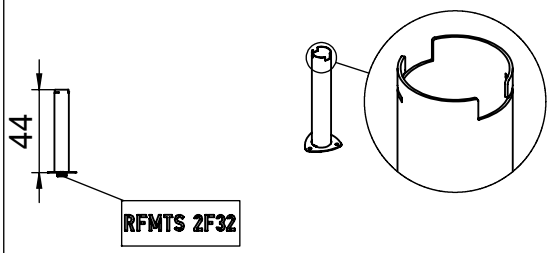
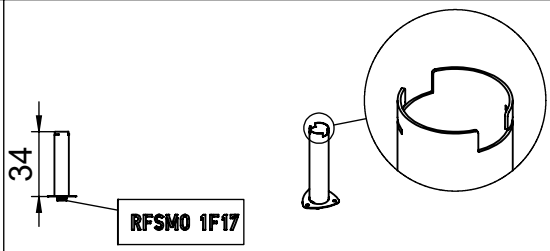
MTSS_H450_2455555555555555117889

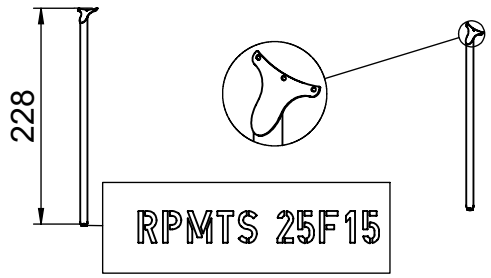
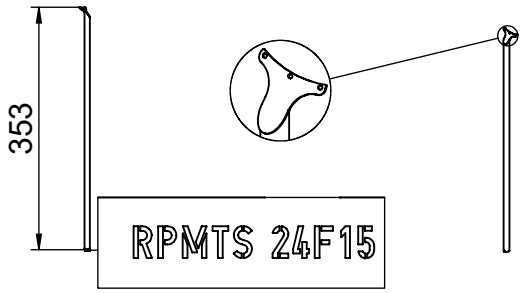
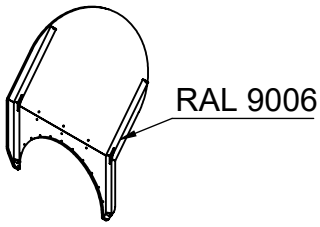


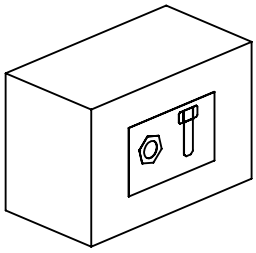


MTSS_H450_2455555555555555117889 F10

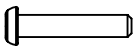
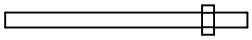
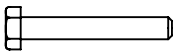
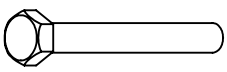
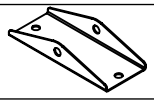
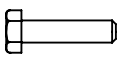
NR	ELEMENT	MTSS_H450_245555555555555117889 F10
1		1
2		
3		
4		1
5		13
6		

NR	ELEMENT	MTSS_H450_245555555555555117889 F10
7		1
8		2
9		1
10		1
11		2
12		2

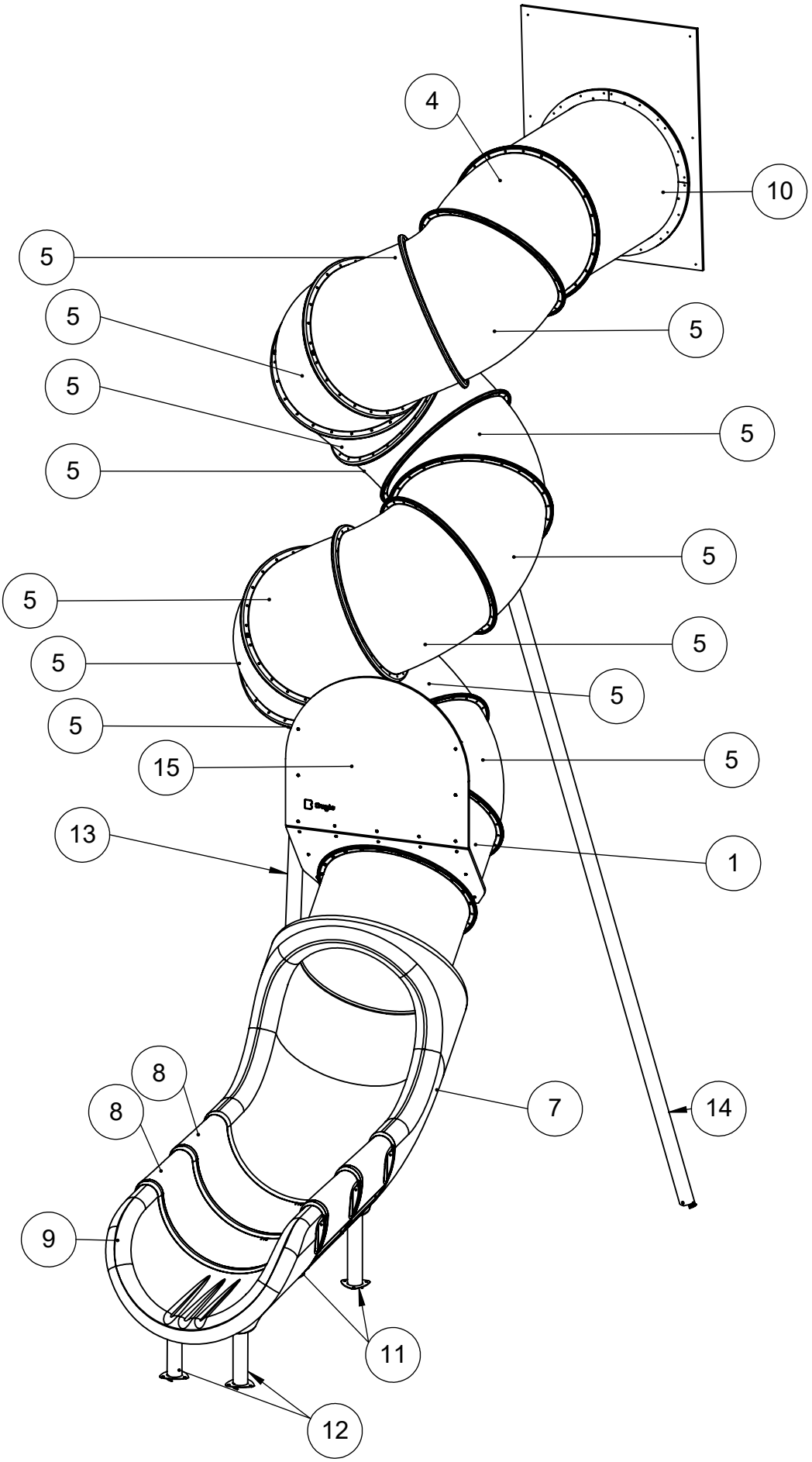
NR	ELEMENT	MTSS_H450_24555555555555117889 F10
13		1
14		1
15		1



MTSS_H450_245555555555555117889 F10

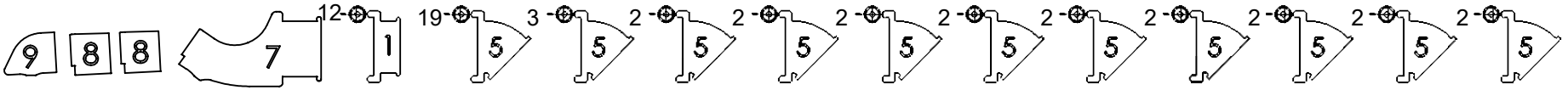
Nr	Element	DIN	ELEMENT	Σ
10		DIN 9021	6x18	811
15		ISO 7380	M6x30	397
16		-	K1_d21_B	414
17		-	Z1_d21_B	414
18		DIN 985	M6 (OC)	390
21		DIN 125	8x16	25
43		DIN 1587	M8	6
45		ISO 7380	M8x30	6
58		-	LOCTITE	1
61		-	KL105 (OC)	16
63		DIN 125	12x24	4
74		DIN 985	M12 (OC)	2
119		DIN 933	M6x40 (OC)	6
147		-	M6x10	13
255		DIN 931	M12x100	2
256		-	MTS_5_g2_G_v1	2
472		DIN 933	M6x25 (OC)	18

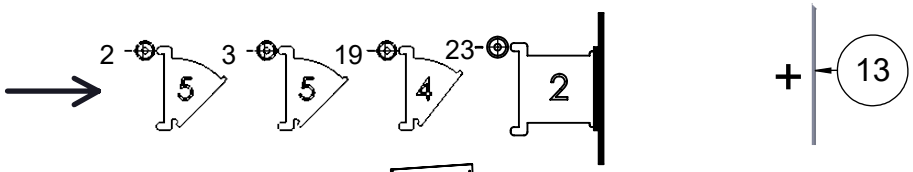
MTSS_H450_245555555555555117889 F10

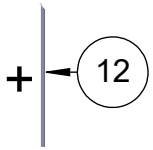


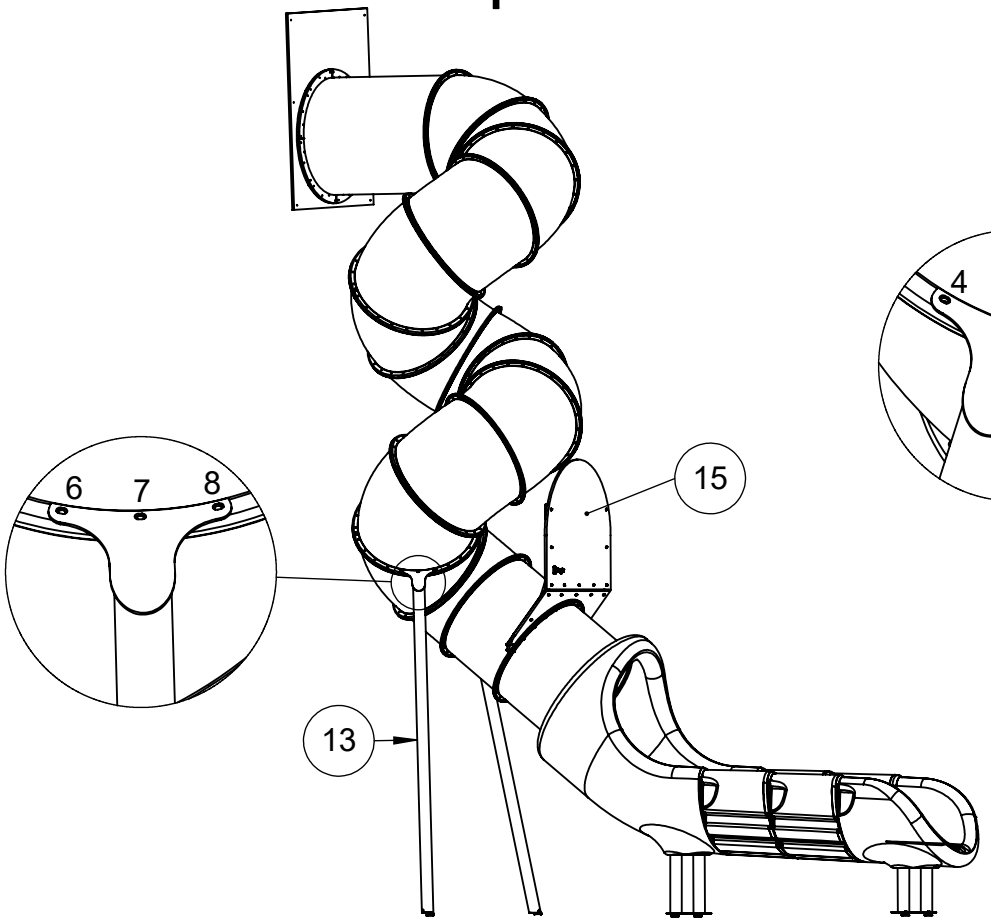
1 MTSS_H450_24555555555555117889 F10

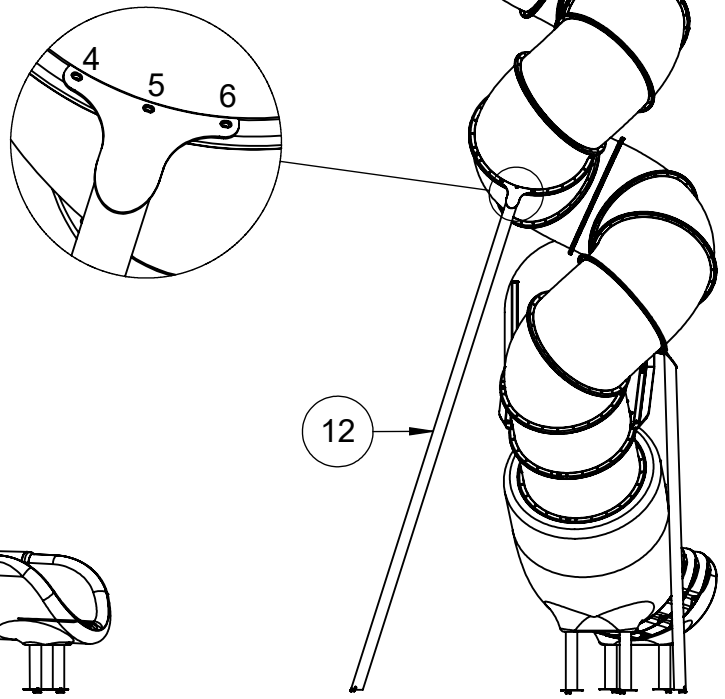
INST_MTS_2
INST_MTS_3
INST_MTS_4
INST_MTS_5
INST_MTS_6
INST_MTS_8





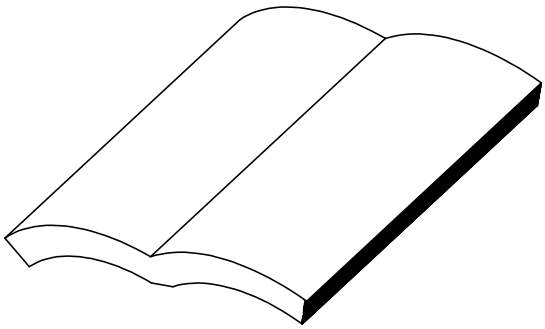




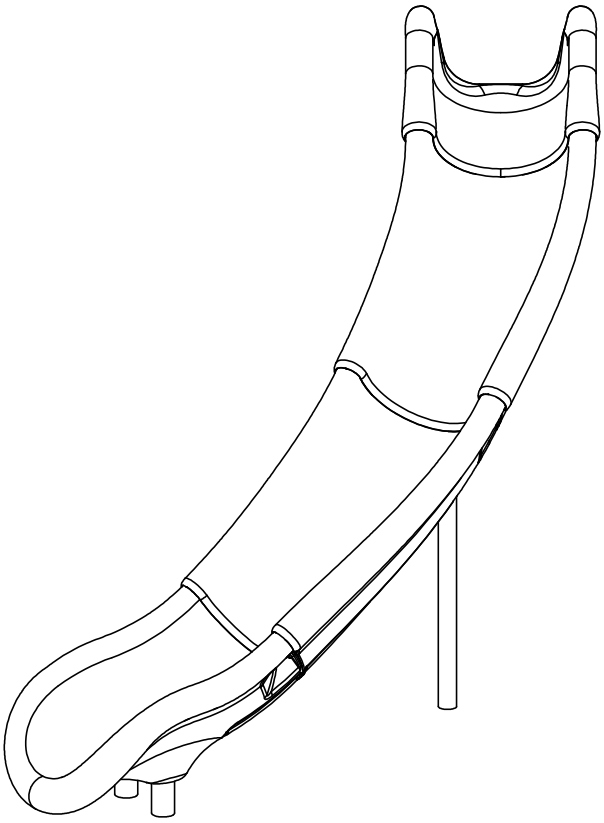


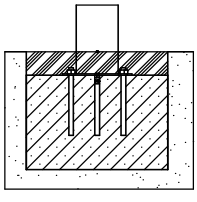
buglo.pl/mts-manual

MANUAL

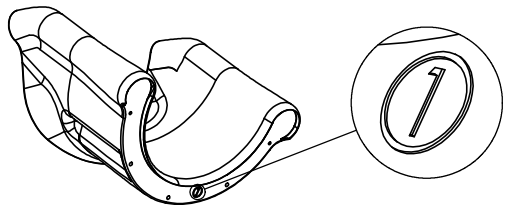
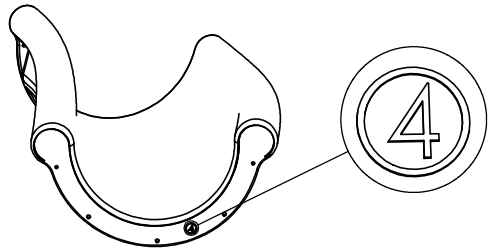
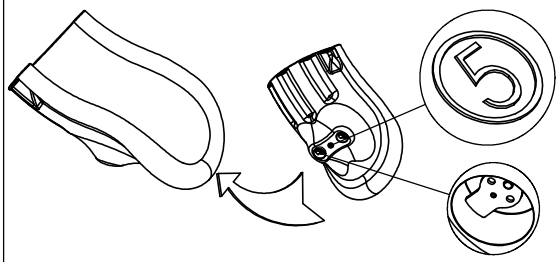
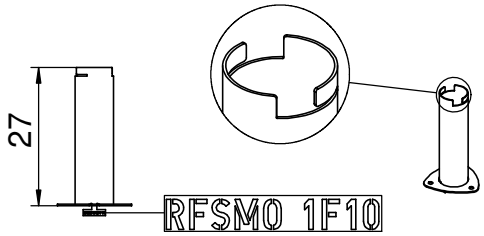
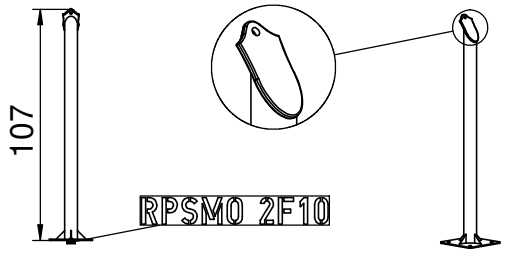


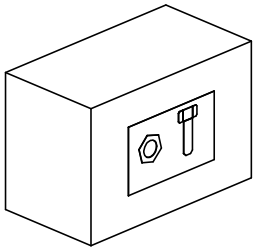
SMOL_180_1445F10



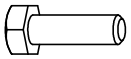
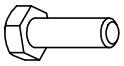
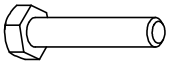


SMOL_180_1445F10

NR	ELEMENT	SMOL_180_1445F10
1		1
2		
3		
4		2
5		1
6		2
7		1

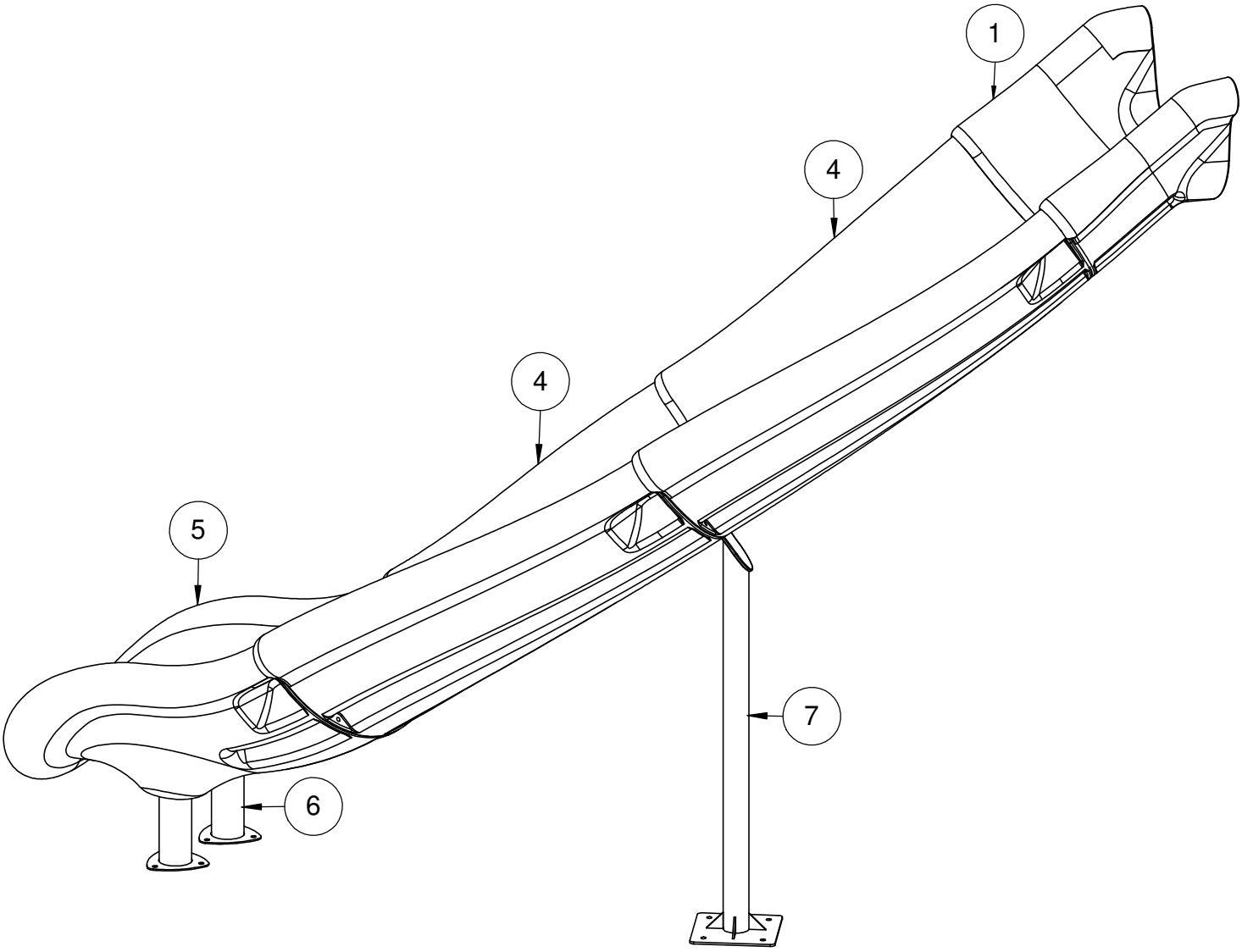


SMOL_180_1445F10

Nr	Element			Σ
16		-	K1_d21_B	26
17		-	Z1_d21_B	26
21		DIN 125	8x16	26
31		DIN 985	M8	10
58		-	LOCTITE	1
61		-	KL105	10
210		DIN 933	M8x40	9
240		DIN 933	M8x25	6
241		DIN 933	M8x50	1

1 SMOL_180_1445F10

INST_SMO_1
INST_SMO_2



Konserwacja i kontrola urządzenia
Zgodnie z normą PN EN 1176-1:2017-12

Eksploatacja i konserwacja:
Wszelkie czynności konserwacyjne nie opisane w poniższej instrukcji elementów objętych gwarancją należy konsultować z producentem urządzeń.

Powłoki antykorozyjne:
Uszkodzone powłoki malarskie konstrukcji stalowych należy oczyścić z kurzu, pyłu, tłuszczu oraz wszelkich ognisk korozyjnych. W kolejnym etapie pokryć antykorozyjną farbą podkładową do podłoży stalowych. Po wyschnięciu, dwukrotnie pomalować farbą w sprayu.
Zestawienie kolorów BUGLO wg palety RAL:
Szary – RAL 7035, Żółty – RAL 1003, Niebieski – RAL 5015, Czerwony – RAL 3000, Zielony – RAL 6018, Czarny – RAL 9005, Fioletowy – RAL 4008, Grafitowy – RAL 7016, Srebrny – RAL 9006, Beżowy – RAL 1019, Pomarańczowy – RAL 2009, Brązowy – RAL 8017

Drewno:
Elementy wykonane z drewna klejonego wymagają okresowego odnawiania. W zależności od czynników klimatycznych, stopnia eksplantacji i uszkodzeń mechanicznych zaleca się ponowną impregnację po okresie od 2 do 5 lat.
Przed impregnacją elementy drewniane należy zmatowić, a następnie zastosować kolejno:
1) Podkład impregnujący – GORI 356
2) Farba nawierzchniowa – NORDICA EKO 3330 – 12TM1806
Produkty dostępne w sieci dystrybucji Firmy Teknos (www.teknos.com). Sposób użycia wg zaleceń producenta.

Drewno IROKO: konserwować środkiem Owatrol D1.

Stal nierdzewna:
Zaleca się raz w roku czyszczenie elementów ze stali nierdzewnej w celu usunięcia osadów i zanieczyszczeń, których nagromadzenie może spowodować powstanie odbarwień na powierzchni stali.
Myć używając bawełnianej ścierki i rozcieńczonych w wodzie łagodnych detergentów, np. płynu do mycia naczyń.
Po myciu elementy należy spłukać czystą wodą i wytrzeć do sucha.
Uwaga!
Do czyszczenia wyrobów ze stali nierdzewnej nie wolno używać środków, które zawierają takie składniki jak: chlor, sól, kwasy oraz wybielacze. Nawet niewielka zawartość tych składników może spowodować trwałe uszkodzenie powłoki tlenków chromu.

Zalecenia dotyczące kontroli urządzenia zgodnie z normą PN EN 1176-7: 2020-09 Wyposażenie placów zabaw i nawierzchnie część 7: Wytyczne instalowania, kontroli, konserwacji i eksploatacji:

1) Kontrola po instalacji - zalecana przed otwarciem placu zabaw do użytku publicznego, mająca na celu ocenę dostępu do sprzętu i jego otoczenia pod kątem ogólnego poziomu bezpieczeństwa.

2) Kontrola okresowa - zalecana przynajmniej raz w tygodniu lub częściej jeżeli urządzenie jest intensywnie użytkowane lub jest szczególnie narażone na wandalizm.
W ramach kontroli okresowej należy sprawdzić:
- Potencjalne uszkodzenia części urządzenia.
- Dokręcenie mocowań.
- Wykończenie powierzchni zestawu.
- Stan nawierzchni amortyzującej.
- Smarowanie łożysk.
- Kompletność elementów zestawu.
- Występowanie pęknięć, ostrych krawędzi i innych uszkodzeń.
- Czystość wokół urządzenia (szczególne zagrożenie stanowi rozbite szkło) oraz wyrównanie nawierzchni bezpiecznej.
- Występowanie przeszkód w przestrzeni wolnej lub przestrzeni upadku i usunięcie ich w przypadku wystąpienia.
- Ogólny stan bezpieczeństwa placu zabaw.

3) Kontrola funkcjonalna - zalecana raz na trzy miesiące.
Obejmuje zakres kontroli okresowej powiększoną o sprawdzenie funkcjonalności urządzenia.
- W ramach kontroli funkcjonalnej należy dokonać oględzin elementów nierozbieralnych (kompletność zaślepek i maskownic).
- Sprawdzić stabilność słupów.
- Sprawdzić, wyrównać sypką nawierzchnię bezpieczną, a w przypadku gdy jej poziom sięga więcej niż 10cm poniżej oznaczonego poziomu powierzchni zabawy – uzupełnić.
- Sprawdzić stan mocowań i dokręcić śruby.
- Sprawdzić stan napięcia elementów linowych oraz siatek i piramid linowych.
- Sprawdzić stan spawów.
- Wymiana zużytych lub uszkodzonych elementów.

4) Kontrola funkcjonalna i główna - obowiązkowa raz w roku.
Kontrola główna obejmuje:
- Sprawdzenie stateczności konstrukcji.
- Sprawdzenie i rekonstrukcja uszkodzonych powłok antykorozyjnych.
- Sprawdzenie stanu fundamentu.
- Sprawdzenie i wyrównanie sypkiej nawierzchni bezpiecznej. W przypadku, gdy jej poziom sięga więcej niż 10cm poniżej oznaczonego poziomu powierzchni zabawy – uzupełnić.
- Sprawdzenie stanu elementów drewnianych, jeżeli występują.

Urządzenia powinny być kontrolowane przez kompetentne do tego osoby (z potwierdzonym poziomem kompetencji).
Kontrole produktów powinny odbywać się okresowo. Każdorazowo administrator placu zabaw powinien prowadzić zapisy z kontroli w postaci kart kontroli.
Modyfikacje części wyposażenia lub konstrukcji, które mogą mieć wpływ na podstawowe bezpieczeństwo sprzętu, powinny być przeprowadzane tylko po konsultacji z producentem lub kompetentną osobą.
Cały personel zaangażowany w zarządzanie bezpieczeństwem placu zabaw musi posiadać odpowiednie kompetencje.
Pełen zakres wymagań wg normy **PN EN 1176-7: 2020-09.**

Przykładową kartę kontroli placu zabaw zawarto w załacznikau A. 1.

Załącznik A1

Karta kontroli placu zabaw

Administarcja placu zabaw

Kontrolowane produkty (nr produkty, producent)

Harmonogram kontroli			
	Kontrola wykonywana raz w tygodniu lub częściej jeżeli urządzenie jest intensywanie użytkowane (okresowa)	**TAK**	**NIE**
1	Ogólny stan bezpieczeństwa na placu zabaw.		
2	Dokręcenie mocowań, nasmarowanie łożysk, sprawdzenie stanu nawierzchni amortyzującej.		
3	Czy zestaw jest kompletny?		
4	Czy wystepują pęknięcia, ostre krawędzie lub inne uszkodzenia?		
5	Czy teren wokół urzędzenia jest czysty (brak szkła, równa nawierzchnia bezpieczna)?		
6	Czy występują przeszkody w przestrzeni wolnej lub przestrzeni upadku?		

	Kontrola wykonywana raz na trzy miesiące (funkcjonalna)	**TAK**	**NIE**
1	Czy elementy nierozbieralne są kompletne (zaślepki i maskownice są kompletne)?		
2	Czy słupy są stabilne?		
3	Czy nawierzchnia bezpieczna sypka jest równa?		
4	Czy poziom nawierzchni bezpiecznej sięga do oznaczonego poziomu lub jest max. 10cm poniżej tego poziomu?		
5	Czy stan mocowań jest odpowieni?		
6	Czy stań spawów jest odpowiedni?		
7	Czy napięcie lin i siatek jest odpowiednie?		
8	Wymiana zużytych lub uszkodzonych elementów.		

	Kontrola wykonywana raz w roku (funkcjonalna i główna)	**TAK**	**NIE**
1	Czy konstrukcja jest stateczna?		
2	Czy występują uszkodzenia powłok antykorozyjnych?		
3	Czy nawierzchnia bezpieczna sypka jest równa?		
4	Czy stan fundamentów jest odpowiedni?		
5	Czy stan elementów drewnianych jest odpowiedni?		
6	Czy poziom nawierzchni bezpiecznej sięga do oznaczonego poziomu lub jest max. 10cm poniżej tego poziomu?		

Usterki / naprawa	
1	
2	
3	
4	
5	

Wymiana części			
	Nazwa części	**Ilość**	**Powód**
1			
2			
3			

	Data kontroli	**Osoba wykonująca kontrolę**
1		
2		
3		
4		