

Concrete C20/25

Ground rod —

Gravel

Q 188 A

Sustainable building ground with a permitted

soil pressure of 100 KN/m² is required. If that

does not match this value, it is necessary to

make a soil replacement.

□ 0.80



- For details of screw connections, see the attached »list of screw connections«. Important: To install the pre-assembled components or individual parts, the screws must be slightly lubricated with the supplied installation paste. Do not tighten all posts, platforms, infills and single parts until they are completely aligned while lying.
- We recommend using a suitable crane or telehandler during horizontal assembly. 1. Place posts 1 and 2 horizontally onto the ground or onto e.g. wooden planks (dot markings on the circular base plates of the posts). Assembly can be simplified, if the posts are positioned at an angle of 10°, for example by means of a suitable trestle or pallet stack. Figure 1 Screw the pre-assembled dalben tower top / corrugated flag (HPL covering open on one side for mounting purposes) with posts 1 and 2. It is essential to observe the eccentrical position of the
- post flanges (screw case SFDT 4000014). **Figure 2, see also detail A.** Screw platforms no.1 (h=5000mm), no.3 (h=3000mm) and no.5 (h=1000mm) with posts 1 and 2 (screw case SFDT 4000011). Align the platforms centrally to the posts, if necessary by means of e.g. a screw clamp. The platform screw connection/post screw connection must be secured with the
- threadlocker (e.g. Loctite SFWZ 0000017) supplied. Figure 3, see also detail B Place the post 4 from above on the dalben tower top and the platform floors and screw them together (screw case SFDT 4000011/ SFDT 4000014). Figure 4 Screw platforms no. 2 (h=4000mm) and no.4 (h=2000mm) to the posts 2 and 4 (screwing case SFDT
- 4000011). Figure 5 Place the post 3 from above on the dalben tower head and the platform floors and screw them together (screw case SFDT 4000011/ SFDT 4000014). Figure 6

Screw standard infills type 1, 2,3, 4 and 5 to the posts according to the drawing (screw case SFDT 4000008). Figures 7-10, see also spatial views.

Installation of roof plate and cover plate

dalben tower is completely assembled except for the wide slide, ladder access and the tunnel spiral slide. Figure 11 and Figure 12 Setting the tower upright Erect the dalben tower with a suitable crane (note the weight). Use traverse crane hook and round slings/lifting belts. Attachment points below the infill barrier attachment of the two upper posts 3 and

Weight of the dalben tower: approx. 3336 kg Weight of the tunnel spiral slide: approx. 980 kg

Heaviest single part (tower platform no. 5): approx. 400 kg

Fixing of the tower Provide drill holes for the compound anchors according to the enclosed manufacturer's specifications. Use the circular base plates as a drilling template (screw case SFDT 4000005; two screw connections per base!), see Type A Foundation tower After the composite anchors have hardened, screw the posts to the foundations. Screw the cables of the two ground rods to the respective post (screw case SFDT 4000026). The screw connection must be

carefully masked with the corrosion protection tape supplied. Cover the dalben tower foundations with 430 mm of soil material which has an adequate level of impact attenuation corresponding to the fall height. Fixing and installation of the ladder access

After the composite anchors have hardened, screw ladder 5 (play level to platform 5) to the foundation/platform (screw cases SFDT 4000025, SFDT 4000020). Cover the ladder foundation with 0.43 m of soil material which has an adequate level of impact attenuation corresponding to the fall Screw the remaining ladder segments to the platform floors (screwing cases SFDT 4000020). Use flat steel 82x40x4 to close the unused boreholes (screw case SFDT 4000049), see also **Detail C / Detail F**. Screw the quardrail of the ladder access on platform no.1 together with the infill barrier (screw case

Installation of tunnel spiral slide

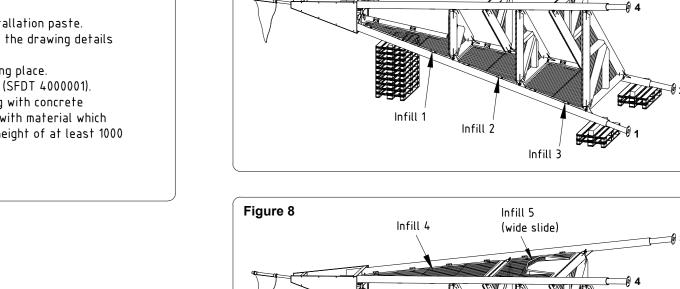
- The installation height specified for the slide (distance between play level and upper edge of platform no.1, height 5000 mm), must be observed.
- The starting section of the tunnel slide must be installed horizontally. The slide run-out section must have an inclination of 3° in the direction of the slide so
- that rainwater can run off (see Type C Run-out section). Before assembly, slightly lubricate the screws with the enclosed installation paste. Screw
- (notches) on flange bars to coincidence (SFAS1070014). The tube surfaces must not be displaced against each other. By using the clearance in the holes of the flange bars, the tunnel sections can be adjusted dimensionally accurate.
- Carry out foundation excavation for central pylon and run-out section according to the drawing details (see Type B Central pylon and Type C Run-out section). Use e.g. lifting gear to carry the tunnel slide to the intended mounting place.
- 4000047) and align the tunnel spiral slide. Make the foundations for the central pylon and run-out section according to the drawing with concrete C20/25. Screw the run-out (SFAS 1070011) and cover the foundations with material which has an adequate level of impact attenuation corresponding to a fall height
- of at least 1000 mm (acc. to EN 1176-3). 6. Screw connections see details on list of screw cases as annexed.

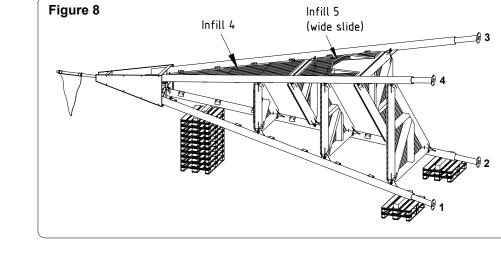
Installation of wide slide The installation height specified for the slide (distance between play level and upper edge of platform no.4, height 2000 mm), must be observed.

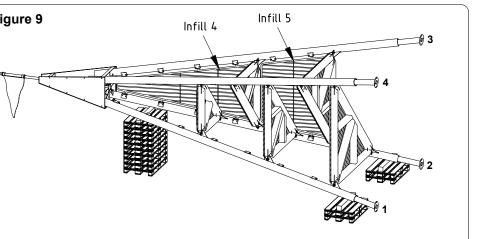
- The specified inclination of the slide (36°) must be observed. This does not apply to the
- The slide run-out section must have an inclination of 5° in the direction of the slide so that rainwater can run off (see Type E Run-out section).
- The slide run-out section fall zone must have an adequate level of impact attenuation corresponding to a fall height of at least 1000 mm (acc. to EN 1176-3).
- Before attaching, slightly lubricate the screws with the enclosed installation paste.
- Carry out foundation excavation for the run-out section according to the drawing details (see Type E Run-out section). Use e.g. lifting gear to carry the slide bedway to the intended mounting place.
- Screw the starting section to the platform no. 4 of the dalben tower (SFDT 4000001). Make the foundation for the run-out section according to the drawing with concrete C20/25. Screw the run-out (SFXS 1070006) and cover the foundation with material which has an adequate level of impact attenuation corresponding to a fall height of at least 1000 mm (acc. to EN 1176-3).

Detail A

Tower top



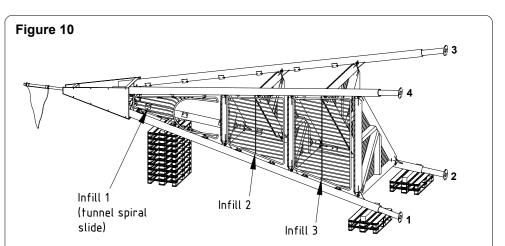


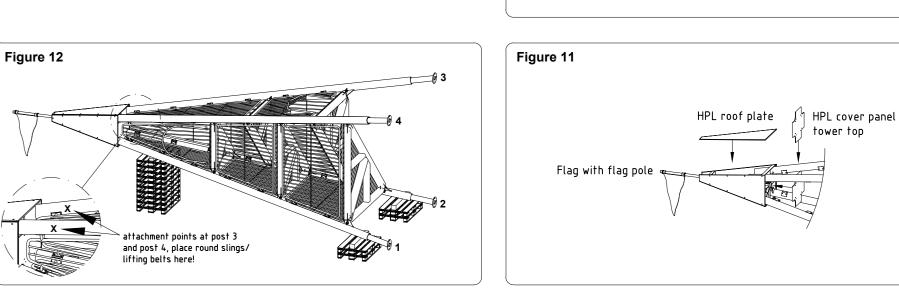


Circular base plate with dot marking

Trestle or pallet stack (job site)

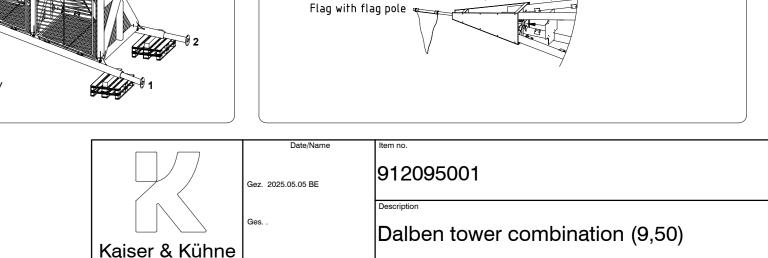
tower top

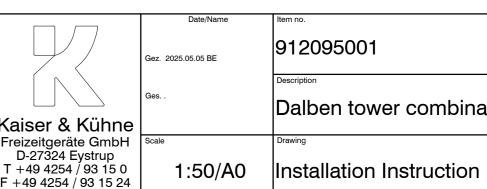




Detail B

Adjust platform centered to the post





1297246



Item: 912095001 Order:

Dalben tower (9,50)

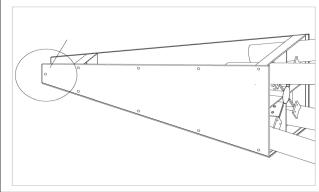
Location: Building Project:

16 x SFDT4000014 Dalben tower top at Dalben tower post



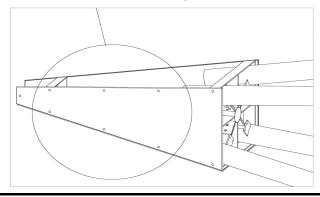
per set	total	item no.	o. material short text	
1 x	16 x	3430041	Hexagon cap nut M16 DIN986 A2	
1 x	16 x	3430060	Washer Ø 17 DIN125 A2	
1 x	16 x	3400729	Screw M16x 45 DIN933 A2	

1 x SFDT4000003 HPL panels on Dalben tower top (blind screw)



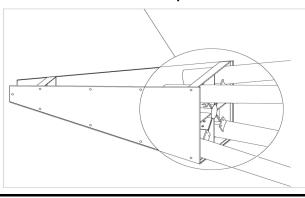
per set	total	item no.	material short text	
1 x	1 x	3430011	hexagon cap nut M10 DIN986 A2	
1 x	1 x	3430014	washer Ø 10,5 DIN125 form B A2	
1 x	1 x	3400195	Dome head security screw-M10x30-Resistorx T45 A	

6 x SFDT4000004 HPL panels on Dalben tower top



per set	total	item no.	material short text
1 x	6 x	3430014	washer Ø 10,5 DIN125 form B A2
1 x	6 x	3400195	Dome head security screw-M10x30-Resistorx T45 A

2 x SFDT4000006 HPL panels on Dalben tower top (blind screw)



per set	total	item no.	material short text
1 x	2 x	3430011	hexagon cap nut M10 DIN986 A2
1 x	2 x	3430014	washer Ø 10,5 DIN125 form B A2
1 x	2 x	3400195	Dome head security screw-M10x30-Resistorx T45 A



912095001 1297246 Item: Order:

Dalben tower (9,50)

Location: **Building Project:**

Dalben tower platform at Dalben tower post Necessarily use threadlocker (Loctite) !!! 30 x SFDT4000011



per set	total	item no. material short text	
1 x	30 x	3430130	Hexagon domed cap nut M20 DIN 1587 A2
2 x	60 x	3430131	Washer Ø 21 DIN125 A2
1 x	30 x	3400617	Hexagon head screw M20 x 50 DIN933 A2

1 x SFDT4000009 Note: Centre Dalben tower platform!



per set	total	item no.	material short text
0 x	0 x	000103	Installation instruction

1 x SFWZ0000017 High-strength threadlocker



per set	total	item no.	material short text
1 x	1 x	5200152	Loctite high-strength threadlocker

104 x SFDT4000008 Lateral infill at Dalben tower post



per set	total	item no.	material short text
1 x	104 x	3430014	washer Ø 10,5 DIN125 form B A2
1 x	104 x	3400464	Dome head security screw-M10x20-Resistorx T45 A



Item: **912095001** Order: 1297246

Dalben tower (9,50)

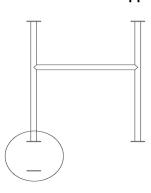
Location: Building Project:

30 x SFDT4000020

Ladder climb up on wooden Dalben tower platform								
	per set	total	item no.	material short text				
	1 x	30 x	3430011	hexagon cap nut M10 DIN986 A2				
The state of the s	1 x	30 x	3430014	washer Ø 10,5 DIN125 form B A2				
	1 x	30 x	3400424	Mushroom head screw M10x220 DIN603 A2				

2 x SFDT4000049

attachment of ladder access to tower platform with opposing single flat steel (78 mm hole to hole)



per set	total	item no.	material short text		
1 x	2 x	2003632	flat steel bar, ladder access to platform		

4 x SFDT4000022

Lateral infill with ladder climb up at Dalben tower post



per set	total	item no.	material short text
1 x	4 x	3430014	washer Ø 10,5 DIN125 form B A2
1 x	4 x	3400688	Dome head security screw-M10x25-Resistorx T45 A

8 x SFDT4000005

Dalben tower post on concrete foundation on site by means of anchor rod M16



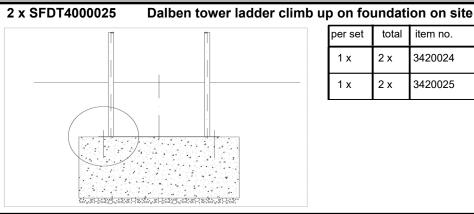
per set	total	item no.	material short text
1 x	8 x	3420024	Two-component resin capsule RSB16
1 x	8 x	3420025	Threaded rod RG M16 x 190 A4 Fischer

1297246

912095001 Item:

Dalben tower (9,50)

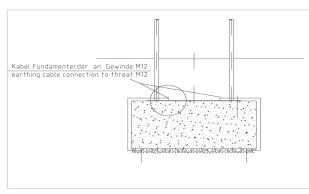
Location: **Building Project:**



per set	total	item no.	material short text
1 x	2 x	3420024	Two-component resin capsule RSB16
1 x	2 x	3420025	Threaded rod RG M16 x 190 A4 Fischer

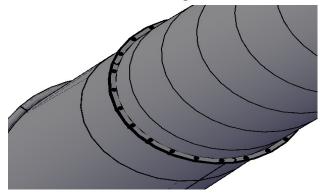
Order:

2 x SFDT4000026 Ground wire for foundation earth electrode fixed to Dalben tower ladder climb up



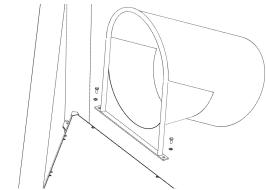
per set	total	item no.	material short text
1 x	2 x	3430025	washer Ø 13 DIN125 A2
1 x	2 x	3430051	Hexagon cap nut M12 DIN 986 A2

48 x SFAS1070014 Flange connection of tunnel slide sections



	per set	total	item no.	material short text
	1 x	48 x	3430011	hexagon cap nut M10 DIN986 A2
	1 x	48 x	3430014	washer Ø 10,5 DIN125 form B A2
	1 x	48 x	3400162	Cheese head screw M10 x 30 DIN912 A2

Flange of tunnel slide at Dalben tower platform 2 x SFDT4000047



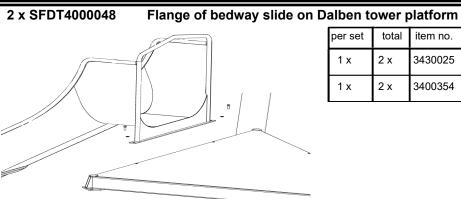
per set	total	item no.	material short text
1 x	2 x	3400634	Hexagon head cap screw M16 x 40 DIN 933 A2
1 x	2 x	3430060	Washer Ø 17 DIN125 A2



Item: **912095001** Order: 1297246

Dalben tower (9,50)

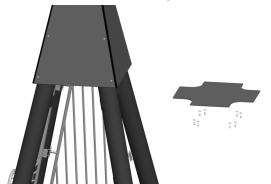
Location: Building Project:



	•		
per set	total	item no.	material short text
1 x	2 x	3430025	washer Ø 13 DIN125 A2
1 x	2 x	3400354	Hexagon head cap screw M12 x 35 DIN 933 A2

8 x SFDT4000015

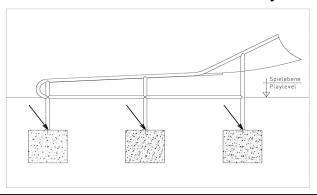
Cover panel for bottom side of Dalben tower top



per set	total	item no.	material short text
1 x	8 x	3430014	washer Ø 10,5 DIN125 form B A2
1 x	8 x	3400195	Dome head security screw-M10x30-Resistorx T45 A

6 x SFXS1070011

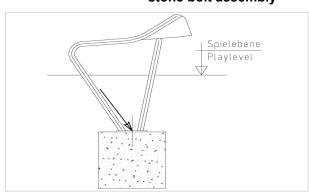
(Short) Tunnel slide run-out section stone bolt assembly



per set	total	item no.	material short text
1 x	6 x	1070365	Set of stone bolts for slide run-out section M12x160

2 x SFXS1070006

Slide run-out section (up to 2,00 m) on foundation stone bolt assembly



per set	total	item no.	material short text
1 x	2 x	1070365	Set of stone bolts for slide run-out section M12x160



912095001 1297246 Item: Order:

Dalben tower (9,50)

Building Project: Location:



per set	total	item no.	material short text
1 x	6 x	5300039	lubricating metal box 30g
1 x	6 x	5200026	brush for lubricating metal

5 x SFWZ0000002 **Security TORX wrench TR45**



per set	total	item no.	material short text
1 x	5 x	3490033	Allen key security TORX TR45

1 x SFWZ0000015 Blow-out pump for drill holes



1	per set	total	item no.	material short text
	1 x	1 x	3490056	Blow-out for drilled holes

2 x SFWZ0000016 Cleaning brush for anchor drill holes



per set	total	item no.	material short text
1 x	2 x	3490045	Nozzle cleaning brush Ø 20 mm, Nylon