

Installation Instructions SP-Series

- SP 01 - Twister
- SP 02 - Bike & Stepper
- SP 03 - Station
- SP 04 - Leg Swing
- SP 05 - Arm Rotation
- SP 06 - Leg Press
- SP 07 - Track Tracer
- SP 08 - Roman Chair & Hyperextension
- SP 09 - Double Airwalker
- SP 10 - Airwalker System
- SP 11 - Stretching Tree
- SP 12 - Balance Seat
- SP 13 - Skater
- SP 14 - One Arm Rotation
- SP 15 - Jump Tower

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Underground

Before the installation you have to decide on which underground the equipment will be installed. Possible undergrounds are (more precisely defined in DIN EN 16630:2015; table 4.3.14.3.2):

- Concrete/stone
- Bitumen
- Top soil
- lawn
- shock absorbing underground according to DIN EN 1177
- Loose material *only for equipment with longer posts (on request)*:
 - Sand
 - Gravel
 - Mulch
 - Wood chips

Concrete, stone or bitumen undergrounds are NOT licit with units that have a drop height of >100cm (see DIN EN 16630:2015). This concerns the unit SP 11-Stretching Tree.

According to DIN EN 16630:2015 (4.3.14.5)

| Unit | Drop height | Concrete/ stone/ bitumen | Top soil/ lawn | Shock absorbing underground (according to drop height) | Loose material* |
|---------------------------------------|-------------|--|-------------------|--|--|
| SP 01-Twister | <1,0m | Only when underground installation | + | + | - |
| SP 02-Bike & Stepper | <1,0m | + | + | + | - |
| SP 03-Station | <1,0m | + | + | + | - |
| SP 04-Leg Swing | <1,0m | + | + | + | - |
| SP 05-Arm Rotation | <1,0m | + | + | + | - |
| SP 06-Leg Press | <1,0m | + | + | + | - |
| SP 07-Track Tracer | <1,0m | + | + | + | - |
| SP 08-Roman Chair & Hyperextension | <1,0m | + | + | + | - |
| SP 09-Double Airwalker | <1,0m | + | + | + | - |
| SP 10-Airwalker | <1,0m | + | + | + | - |
| SP 11-Stretching Tree | <2,0m | - | - | + | - |
| SP 12-Balance Seat | <1,0m | + | + | + | - |
| SP 13-Skater | <1,0m | + | + | + | - |
| SP 14-One Arm Rotation | <1,0m | + | + | + | - |
| SP 15-Jump Tower | <1,0m | + | + | + | - (we advise against using sand) |

- * Upon request we can manufacture adjusted equipment for use with loose material, we advise against the use of sand or coarse gravel

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Under-ground installation

For underground installation the foundation is created 60mm below ground level and the anchoring will be filled up to the ground level (see mark on main column) with the filling material (see figure (a)). Then only the main column of the equipment rises out of the ground. The top ends of the screws have to be carried out in compliance with DIN EN 16630:2015.

Under-ground installation with loose material

If you use loose material like sand, gravel, mulch or wood chips, then you have to built the foundation 200mm below ground level and bevel the foundation around the mounting plate (see figure (a), (g) and (h)). After installation, the anchoring will be filled up to ground level with the filling material. Then only the main column of the equipment rises out of the ground. The top ends of the screws have to be carried out in compliance with DIN EN 16630:2015.

Above-ground installation

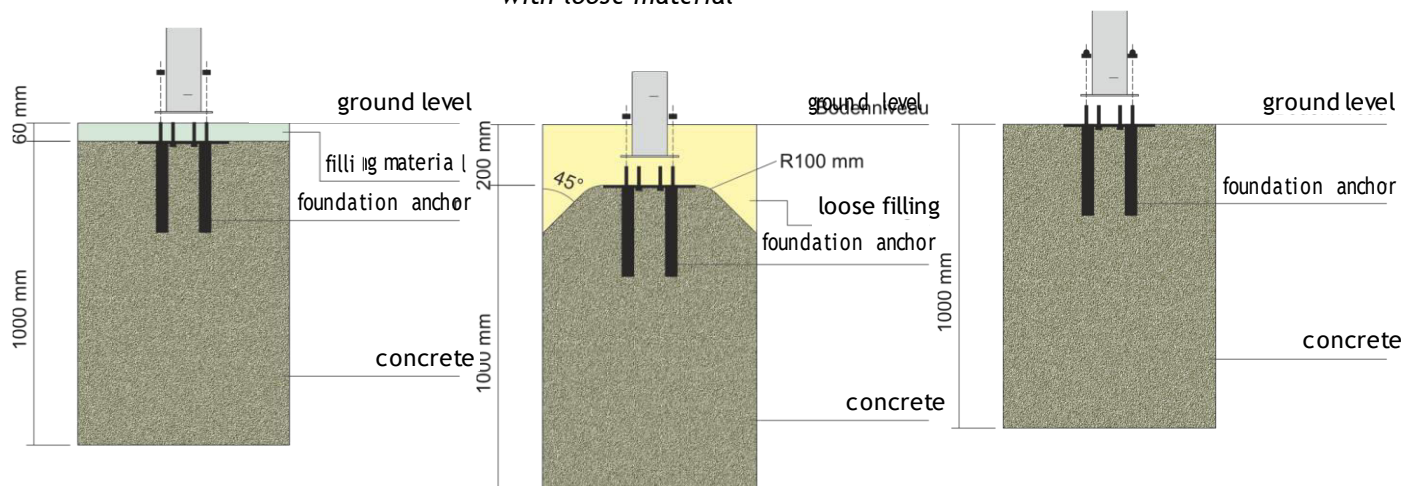
Not possible when using loose material. For above-ground installation the foundation is created at ground level. In this case the anchoring should be covered with the plastic foundation covering (see figure (a)). The top ends of the screws have to be carried out in compliance with DIN EN 16630:2015.

Figure (a)

Under-ground installation

Under-ground installation with loose material

Above-ground installation



Foundation system 1 or 2

The following overview shows you, which of the foundation system is used for which units:

Units SP 01, SP 04-05, SP 12-14:
Unit SP 02-03, SP 06, SP 08-09, SP 11, SP 15
Units SP 07, SP 10:

foundation system 1 ... continue on page 4
foundation system 2 ... continue on page 5
foundation system 3 ... continue on page 6

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Foundation system 1

- SP 01 - Twister
- Sp 04 - Leg Swing
- SP 05 - Arm Rotation
- SP 12 - Balance Seat
- SP 13 - Skater
- SP 14 - One Arm Rotation

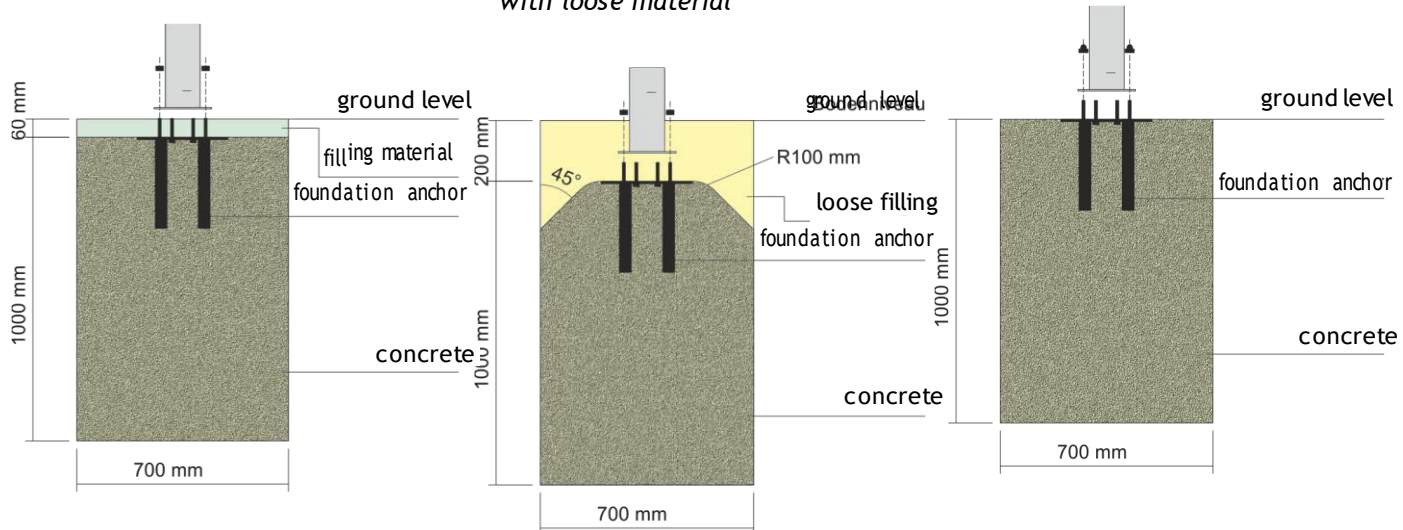
1. Assemble the foundation anchor according to figure (i) on page 11.
2. Dig a hole for the foundation as shown in figure (b), with the minimum dimensions of (l) 700mm, (w) 700mm, (h) 1000mm. *(When Under-ground installation: 1060 mm deep, When Under-ground installation with loose filling material: 1200 mm deep.)*
3. Position the foundation anchor in the hole as shown in figure (b). Align the holes according to the direction you want the fitness equipment to face to.
4. Ready-made C25 concrete should be used. Approximately 0,49m³ concrete is needed for every hole.
5. Fill the hole with concrete up to
 - in the case of underground installation: 60mm under ground level.
 - In the case of underground installation with loose filling material: 200mm under ground level, and bevel the concrete foundation according to figure (a).
 - in the case of above-ground installation up to ground level.

Figure (b)

Under-ground installation

*Under-ground installation
with loose material*

Above-ground installation



Please note

The size of the hole for the foundation is depending on the consistency of the ground. The dimensions mentioned above are applicable for normal conditions with firm ground. If the ground is extremely soft, a much bigger foundation is needed.

Use only appropriate material and follow the installation instructions closely!!!

Next: positioning the foundation anchor ... continue on page 8

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Foundation system 2

- SP 02 - Bike & Stepper
- SP 03 - Station
- SP 06 - Leg Press
- SP 08 - Roman Chair & Hyperextension
- SP 09 - Double Airwalker
- SP 11 - Stretching Tree
- SP 15-Jump Tower

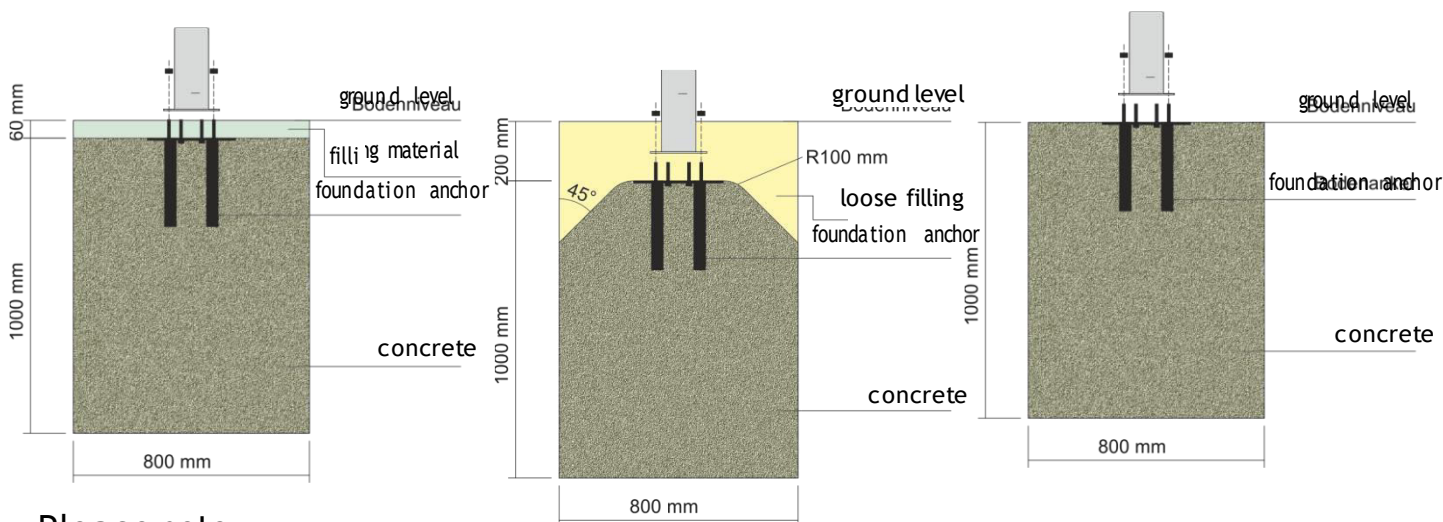
1. Assemble the foundation anchor according to figure (i) on page 11.
2. Dig a hole for the foundation as shown in figure (c), with the minimum dimensions of (l) 800mm, (w) 800mm, (h) 1000mm. *(When Under-ground installation: 1060 mm deep, When Under-ground installation with loose filling material: 1200 mm deep.)*
3. Position the foundation anchor in the hole as shown in figures (c) and (f). Align the holes according to the direction you want the fitness equipment to face to.
4. Ready-made C25 concrete should be used. Approximately 0,64m³ concrete is needed for every hole.
5. Fill the hole with concrete up to
 - in the case of underground installation: 60mm under ground level.
 - In the case of underground installation with loose filling material: 200mm under ground level, and bevel the concrete foundation according to figure (h).
 - in the case of above-ground installation up to ground level.

Figure (c)

Under-ground installation

*Under-ground installation
with loose material*

Above-ground installation



Please note

The size of the hole for the foundation is depending on the consistency of the ground. The dimensions mentioned above are applicable for normal conditions with firm ground. If the ground is extremely soft, a much bigger foundation is needed.

Use only appropriate material and follow the installation instructions closely!!!

Next: positioning the foundation anchor ... continue on page 8

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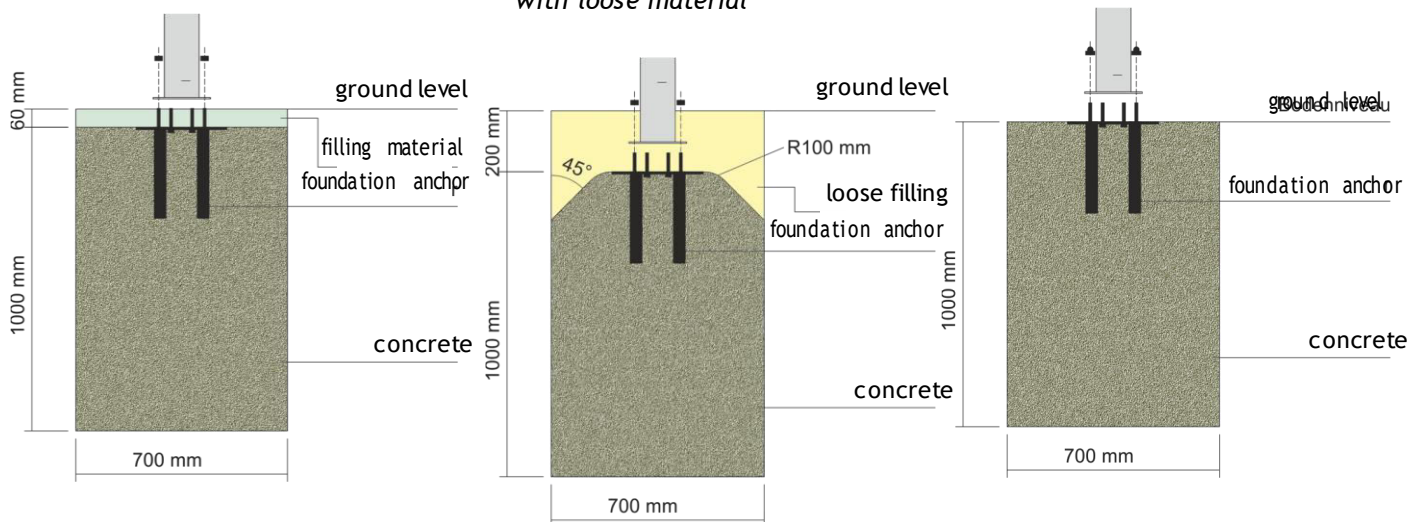
Foundation system 3

- SP 07-Track Tracer
- SP 10-Airwalker

For these units, a twin anchoring system is used.

1. Assemble the foundation anchors according to figure (i) on page 11.
2. Dig a hole for the foundation with the following minimum dimensions (as shown in figure (e)):
 - For SP 07: (l) 2500mm, (w) 700mm, (h) 1000mm or (l) 2x700mm, (w) 700mm, (h) 1000mm
 - For SP 10: (l) 1700mm, (w) 700mm, (h) 1000mm
 - (When Under-ground installation: 1060 mm deep, When Under-ground installation with loose filling material: 1200 mm deep.)
3. Position the foundation anchor in the hole as shown in figures (d) and (f). Align the holes according to the direction you want the fitness equipment to face to.
4. Ready-made C25 concrete should be used. Approximately 1,75m³ or 2x0,49m³ (SP 07) and 1,19m³ (SP 10) concrete is needed for every hole.
5. Fill the hole with concrete up to
 - in the case of underground installation: 60mm under ground level.
 - In the case of underground installation with loose filling material: 200mm under ground level, and bevel the concrete foundation according to figure (h).
 - in the case of above-ground installation up to ground level.

Figure (d) foundations seen from narrow side
Under-ground installation



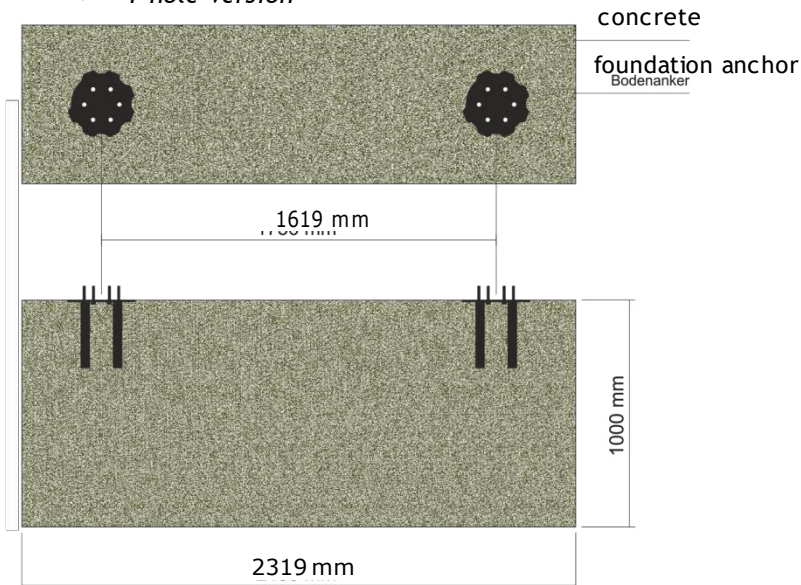
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Figure (e) foundations seen from the long side

Distance of the foundation anchors for SP 07 Track Tracer.

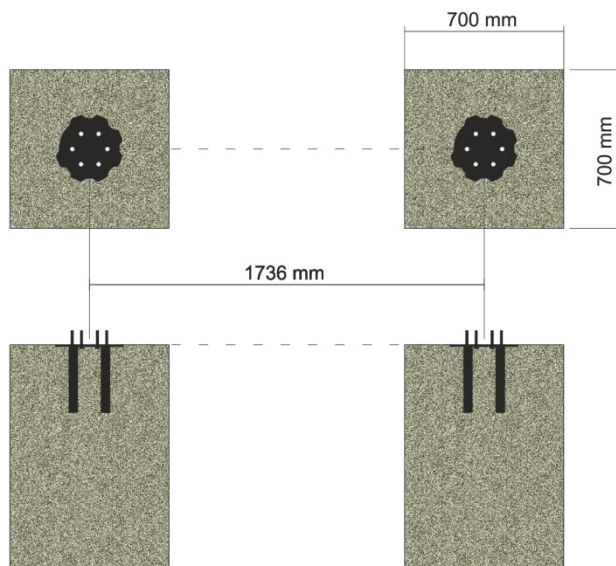
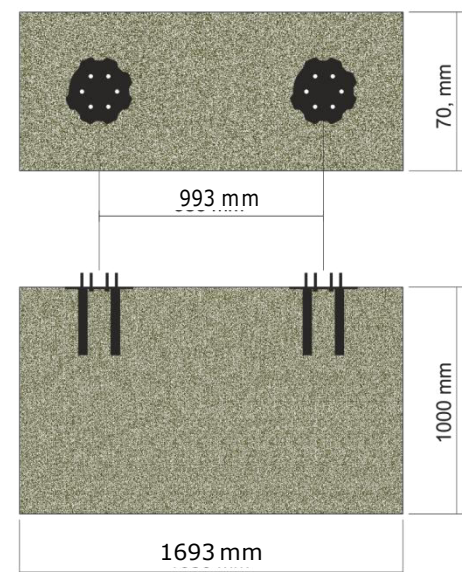
A positioning device for the distance is included in the delivery.

- 1-hole-version



Distance of the foundation anchors for SP 10 Airwalker.

A positioning device for the distance is included in the delivery.



For each **Extension SP 10.01**, you should use the positioning device for the distance between the posts.

With each extension, the foundation lengthens by 993mm:

With one extension SE 10.01: 2686 mm

With two extensions SE 10.01: 3679 mm

Please note

The size of the hole for the foundation is depending on the consistency of the ground. The dimensions mentioned above are applicable for normal conditions with firm ground. If the ground is extremely soft, a much bigger foundation is needed.

Use only appropriate material and follow the installation instructions closely!!!

Next: positioning the foundation anchor ... continue on page 8

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Positioning of the foundation anchor

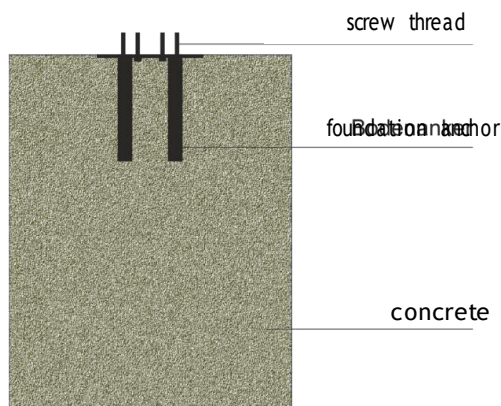
The foundation anchor and distance piece included in the delivery should be positioned in the concrete as shown in figure (f). Align the holes according to the direction you want the fitness equipment to face to. The equipment fixing bolts have to be above the concrete. Avoid concrete remaining on the mounting plates or the equipment fixing bolts. The parts of the foundation anchor rising out of the concrete must stay free from any soiling.

In order to ensure an exact upright position of the main columns after the installation, the mounting plates of the foundation anchor have to be adjusted absolutely horizontally by using a level while concrete casting.

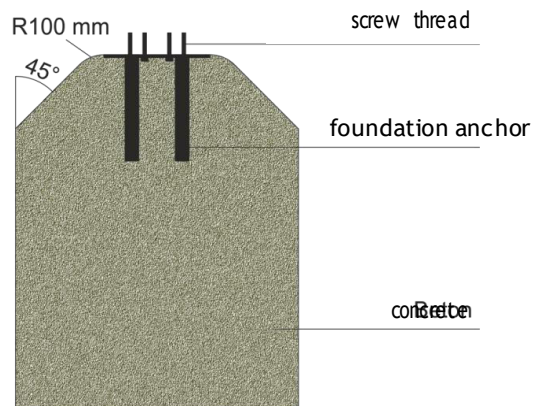
A positioning device for the distance of the foundation anchors is included in the delivery of SP 07 and SP 10 to measure the distance exactly.

Figure (f)

*Positioning of the foundation anchor
for Under- and Above-ground installation*



for installation with loose filling material



Next: equipment installation...continue on page 9

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Mounting of equipment

Before mounting the totally assembled delivered equipment to the foundation, it has to be assured the concrete has dried completely. The drying time is changing depending on the weather conditions. The drying time of concrete at normal weather conditions is approximately 15 days.

After the concrete has dried, the respective equipment can be mounted on the foundation anchor by screwing the included nuts onto the equipment fixing bolts as shown in figure (g).

Take care there are no foreign particles or any soiling between the equipment and the foundation anchor, so the fixing plate of the equipment is flush to the mounting plate of the foundation anchor.

To avoid dismounting of the equipment by unauthorised persons, the nuts can be welded to the equipment fixing bolts.

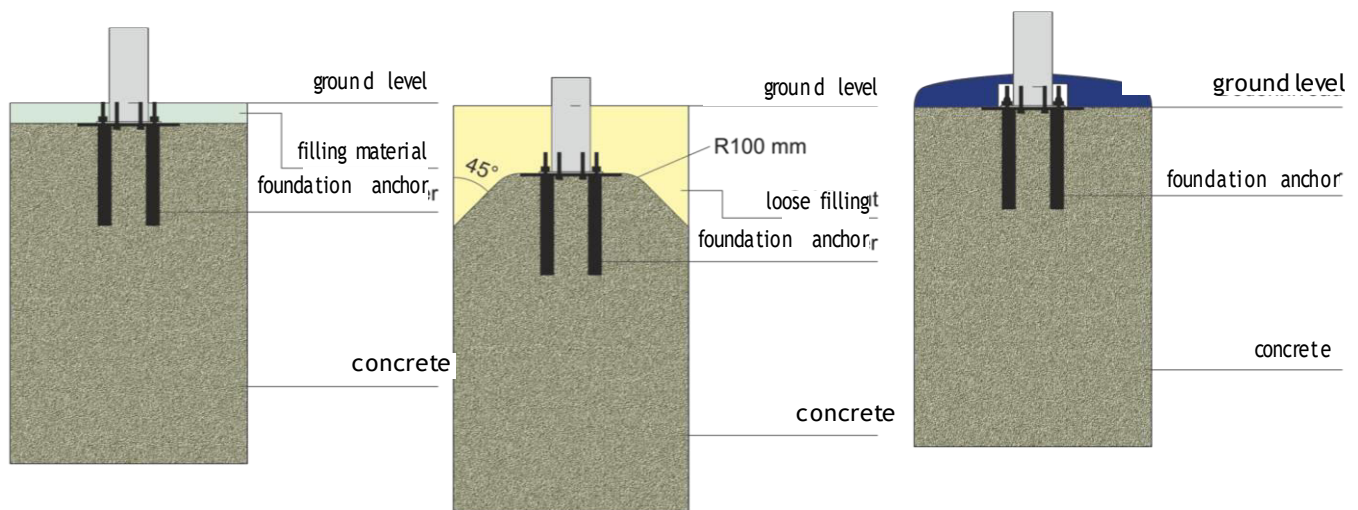
Cover the anchoring with filling material or the plastic foundation covering after mounting the equipment (see figure (g)).

Figure (g)

Under-ground installation

*Under-ground installation
with loose material*

Above-ground installation



Please regard the regulations of DIN EN 16630:2015.

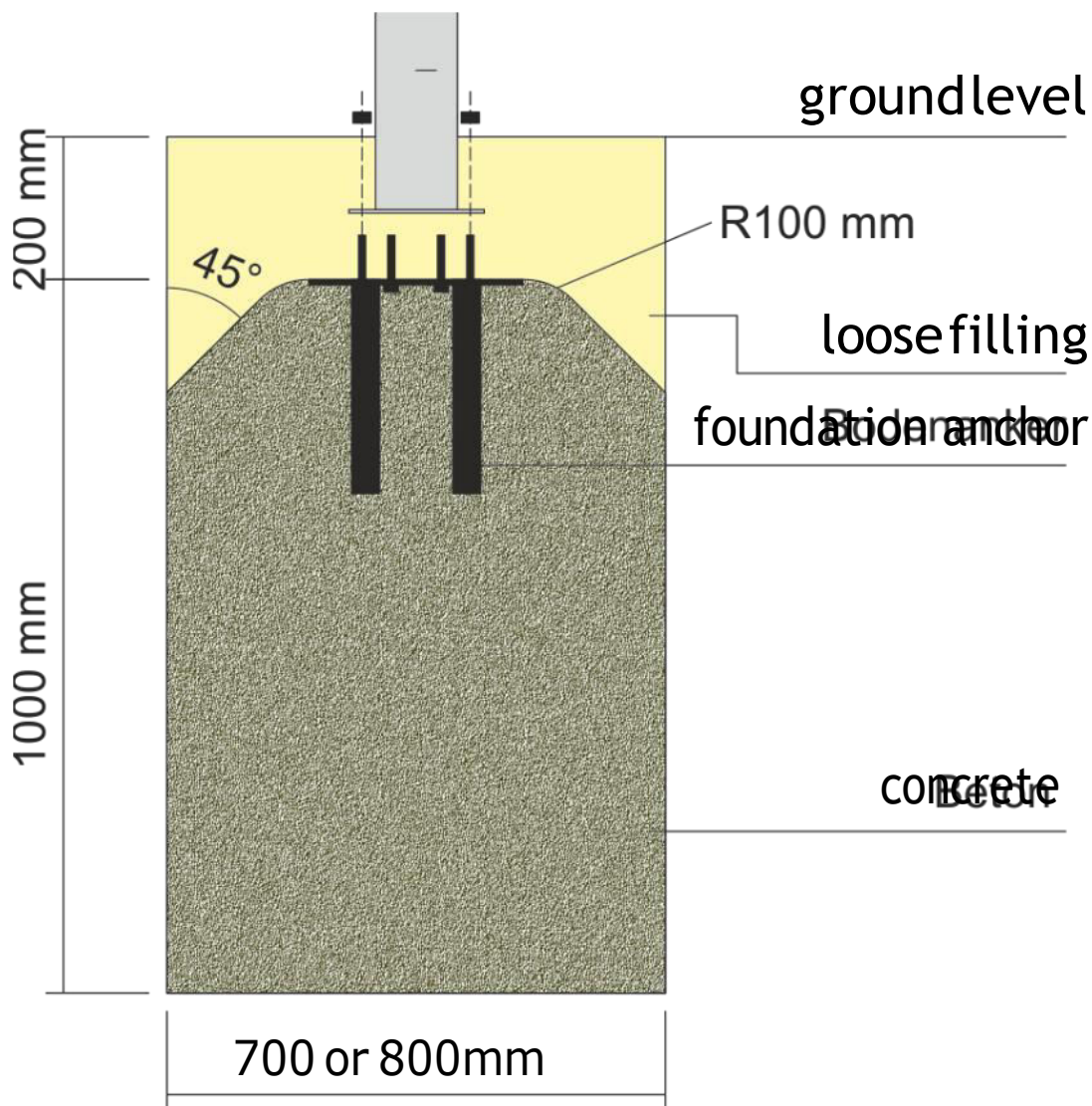
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Beveling of the foundation with loose filling material

To avoid edges of the foundation looking out of the covering, it is required to bevel the foundation along the mounting plate on all sides as shown in figure (a) (see DIN EN 16630:2015.).

Figure (h) *applicable only when loose filling material is used!*

Beveling of the foundation in case of above- ground installation with loose material



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Assembling of the foundation anchor

Screw the six threaded rods to both plates, with a nut bolt from each side.
Make sure that you allow at least 20mm on the top plate for the hub flange of the fitness

Figure (i)
Foundation anchor

