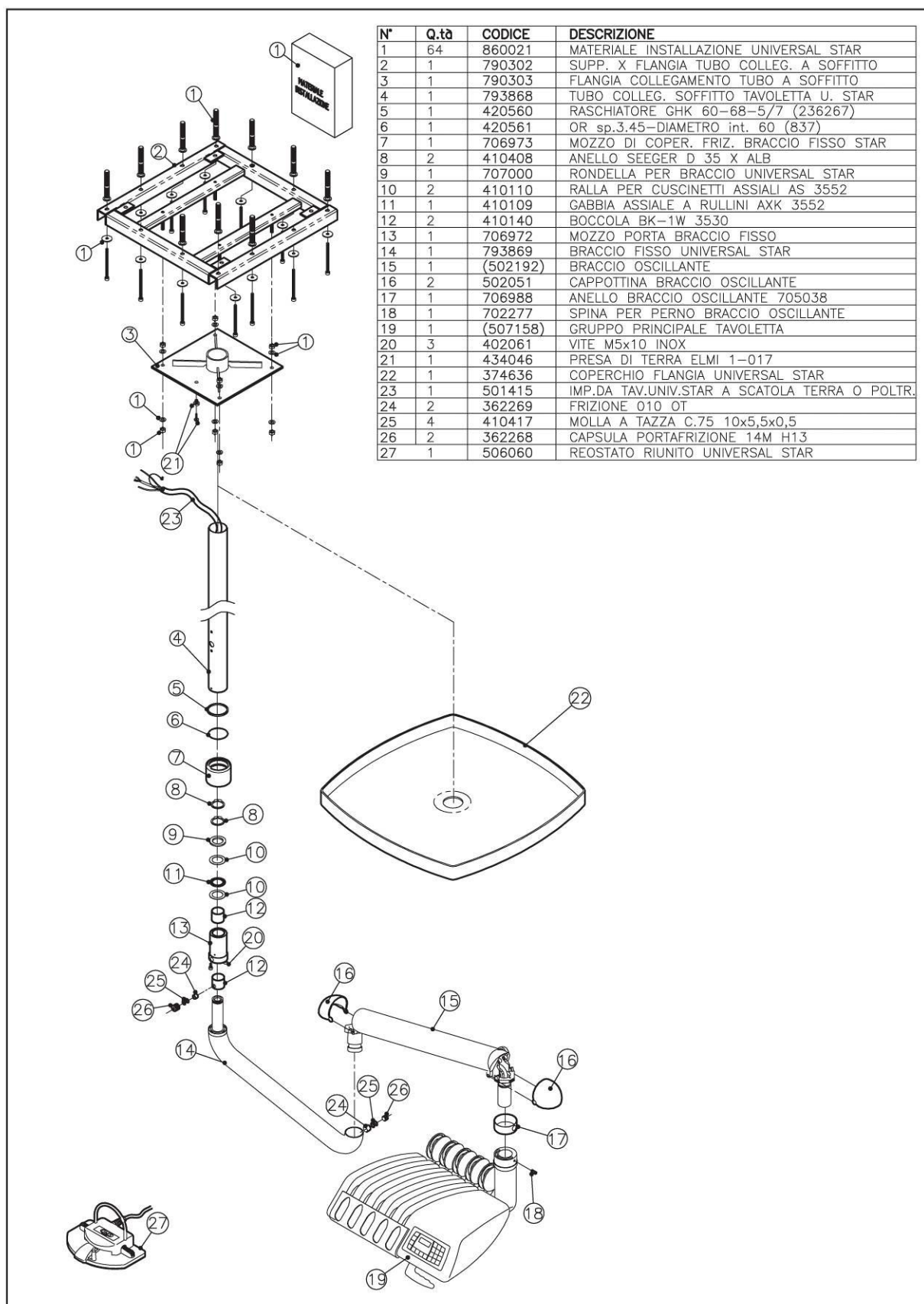


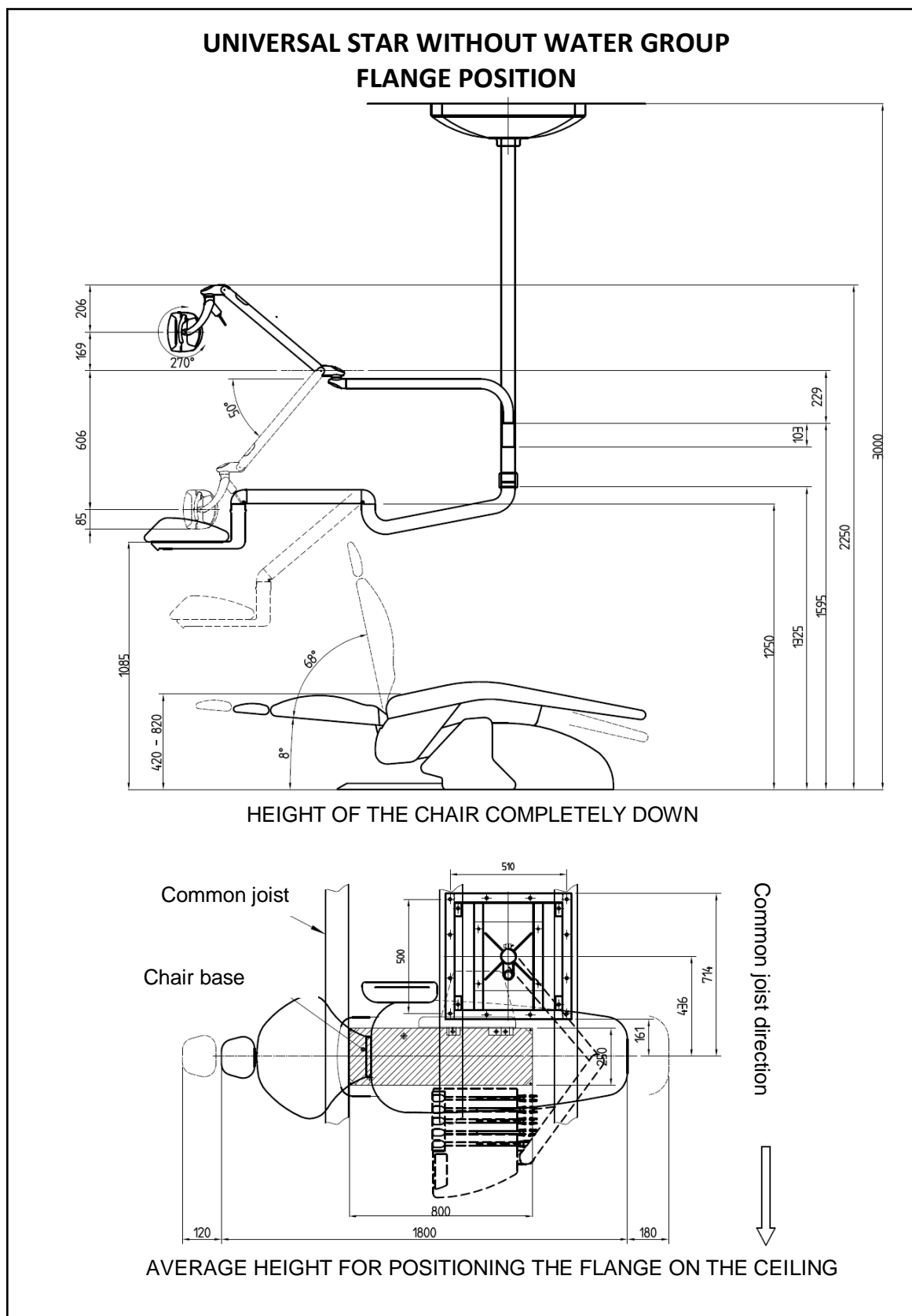
Ceiling installation instructions

UNIVERSAL STAR

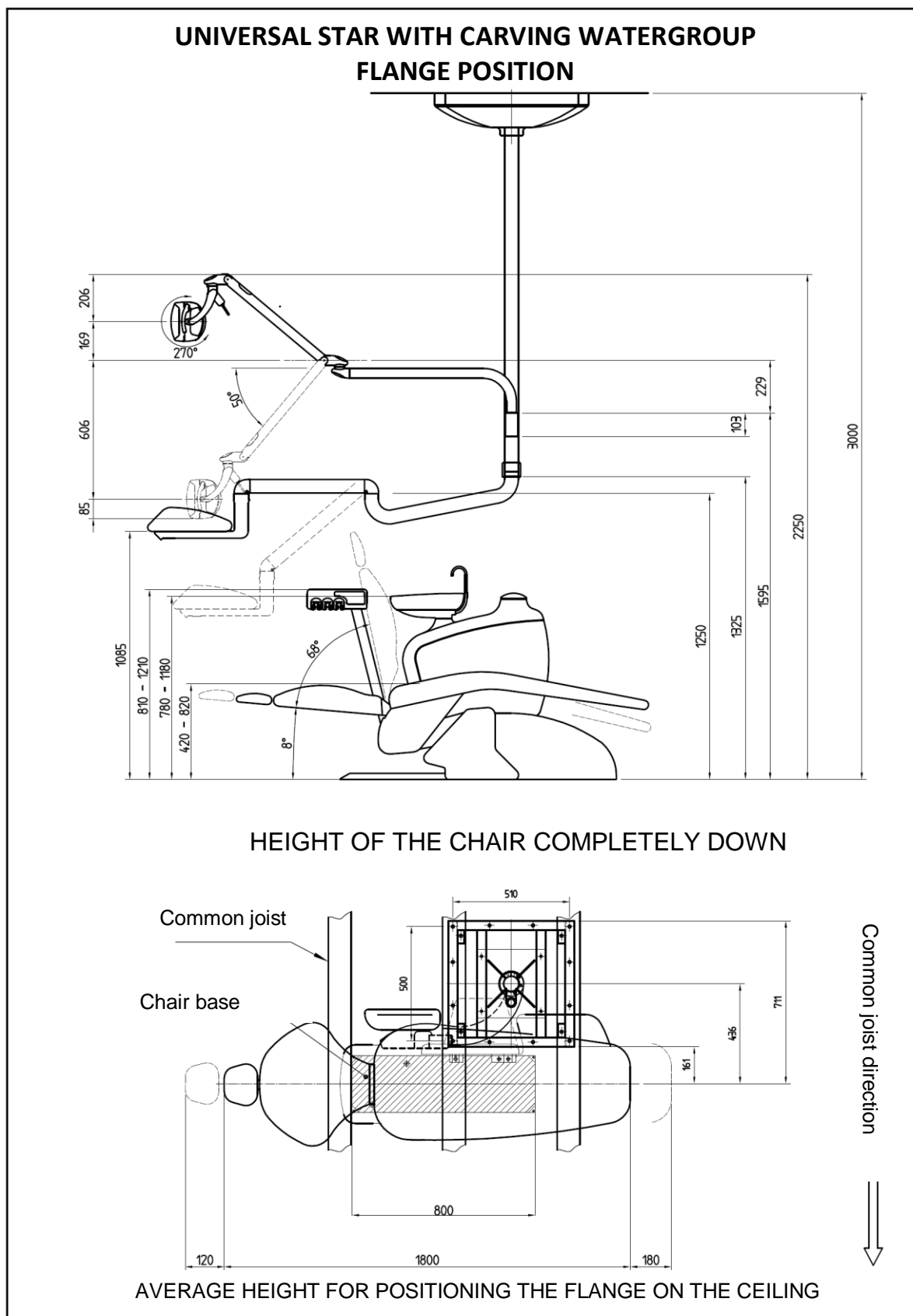




Picture 1.

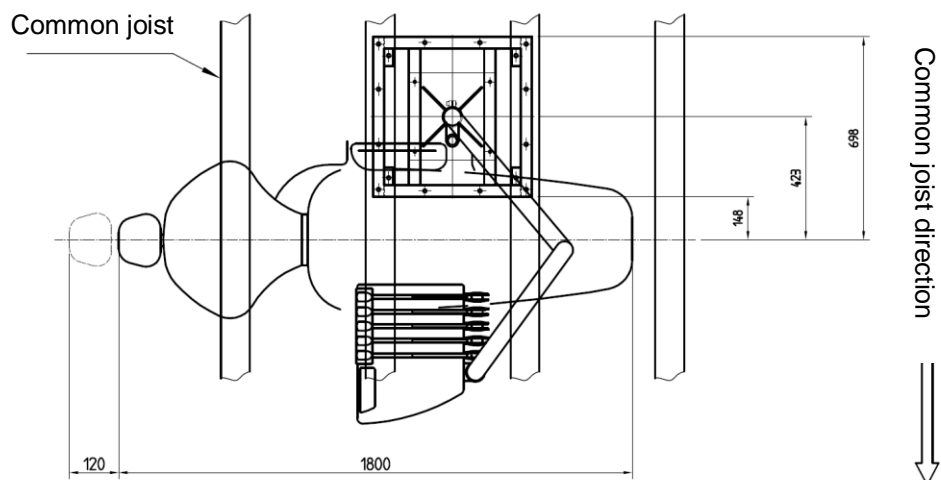
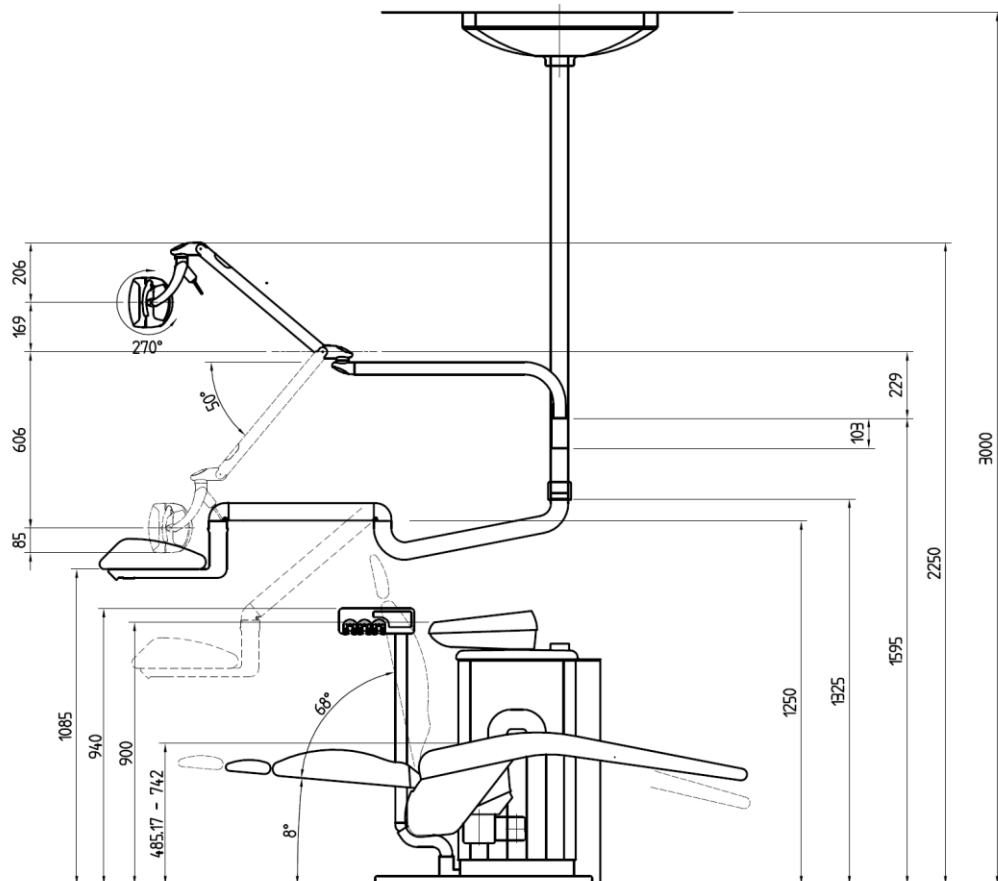


Picture 2.



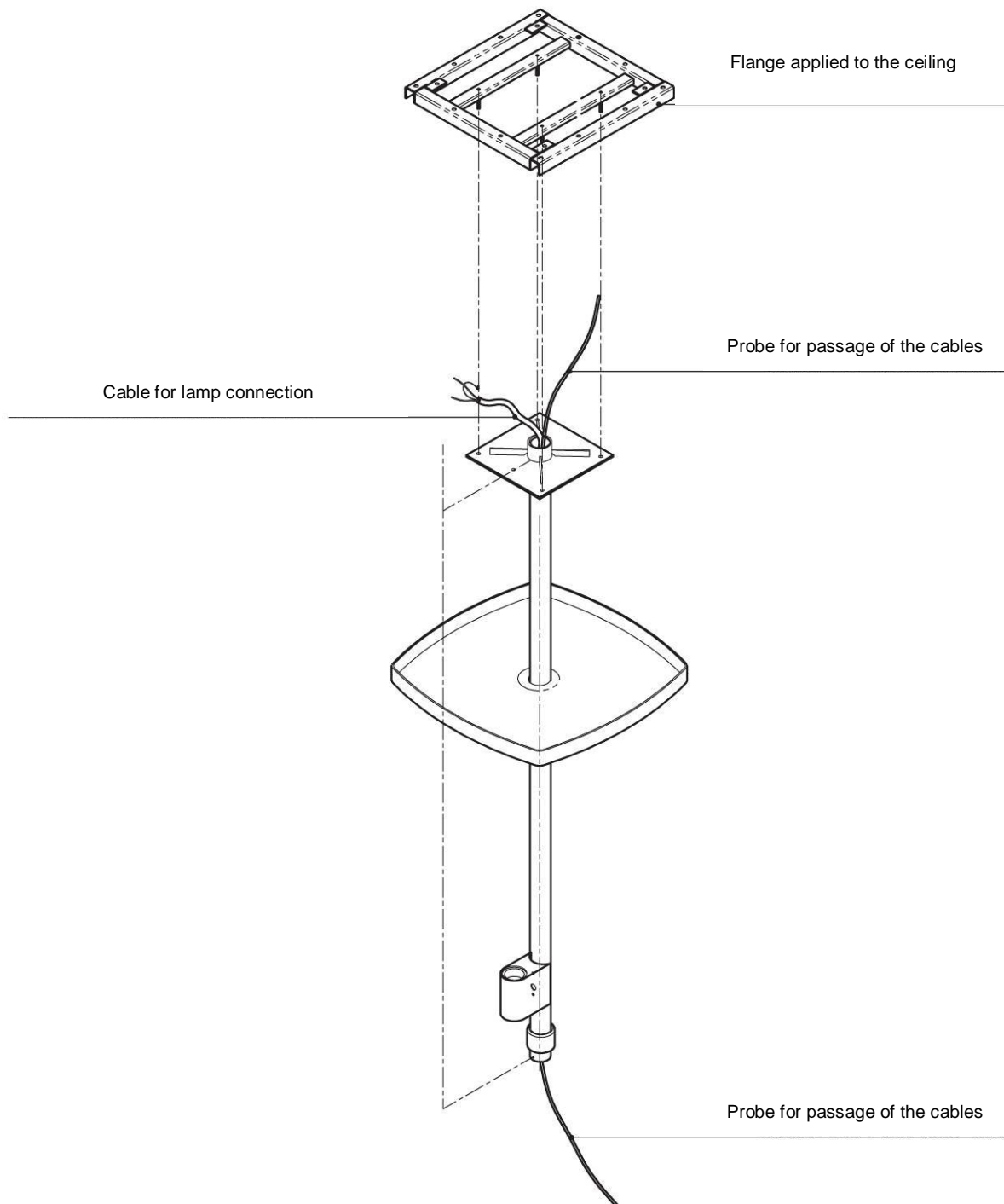
Picture 3.

UNIVERSAL STAR WITH TOP WATERGROUP FLANGE POSITION

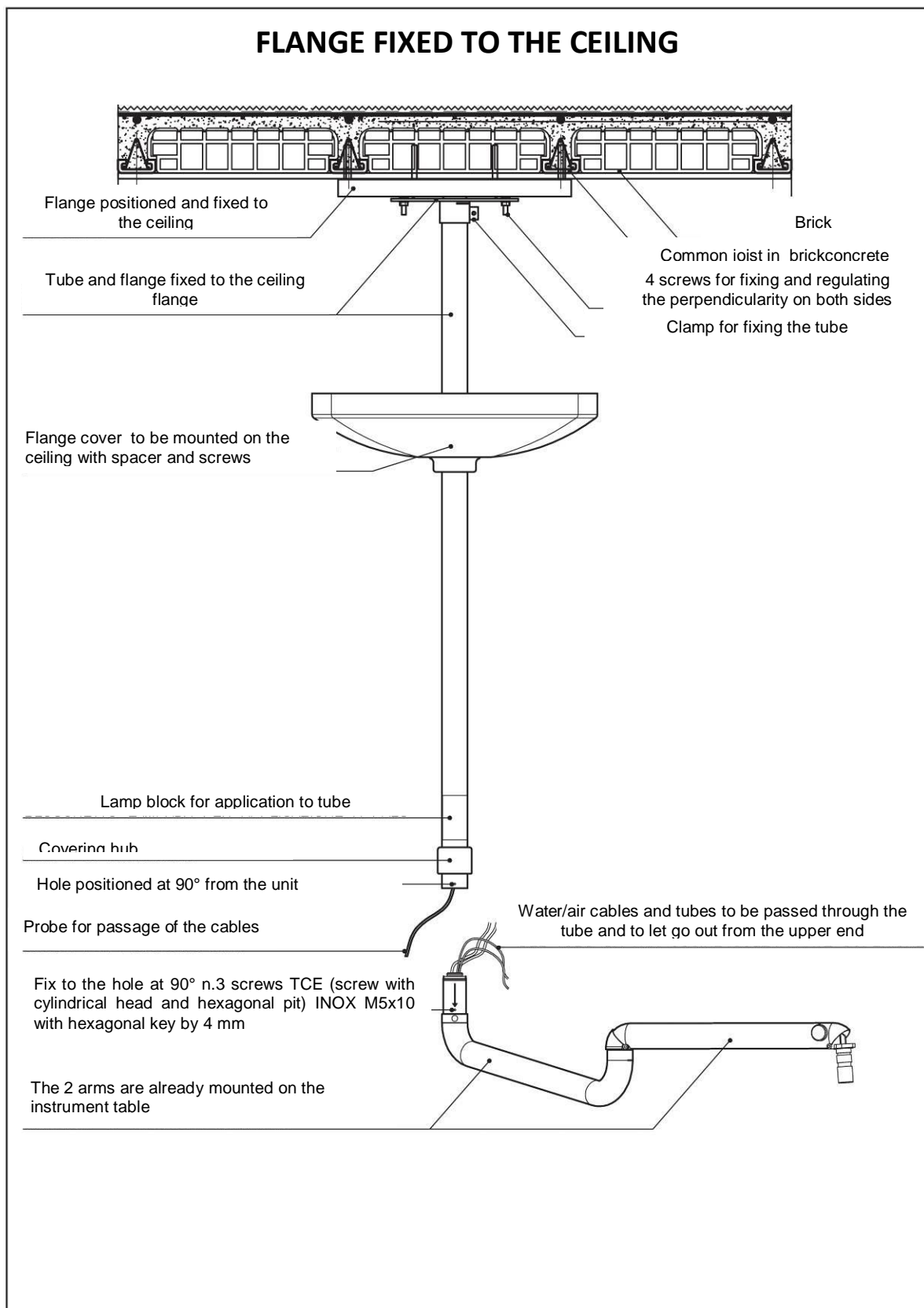


Picture 4.

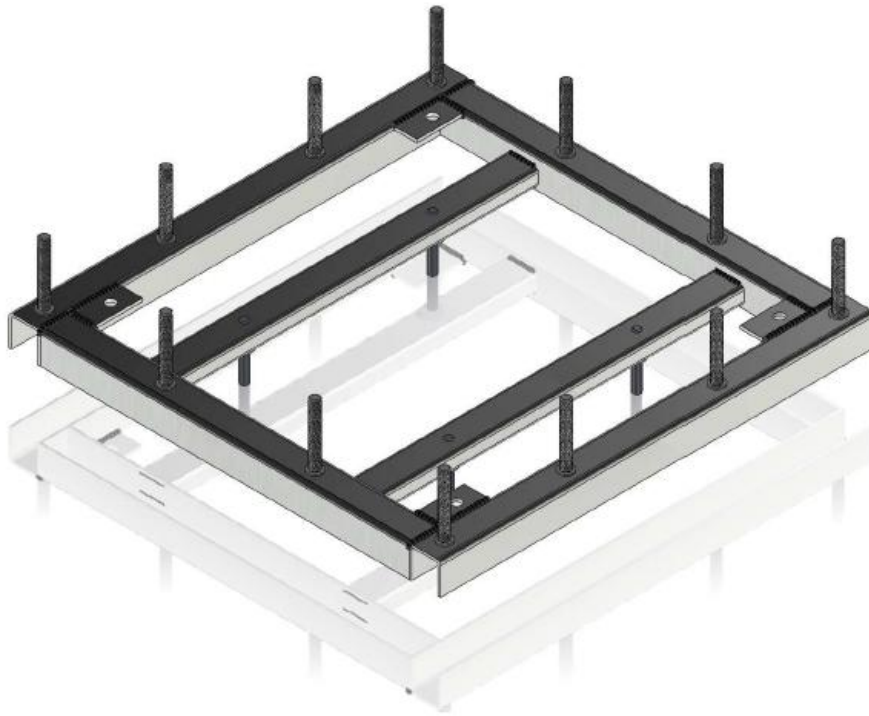
INSTALLATION OF FLANGE WITH TUBE FOR CONNECTION TO THE CEILING



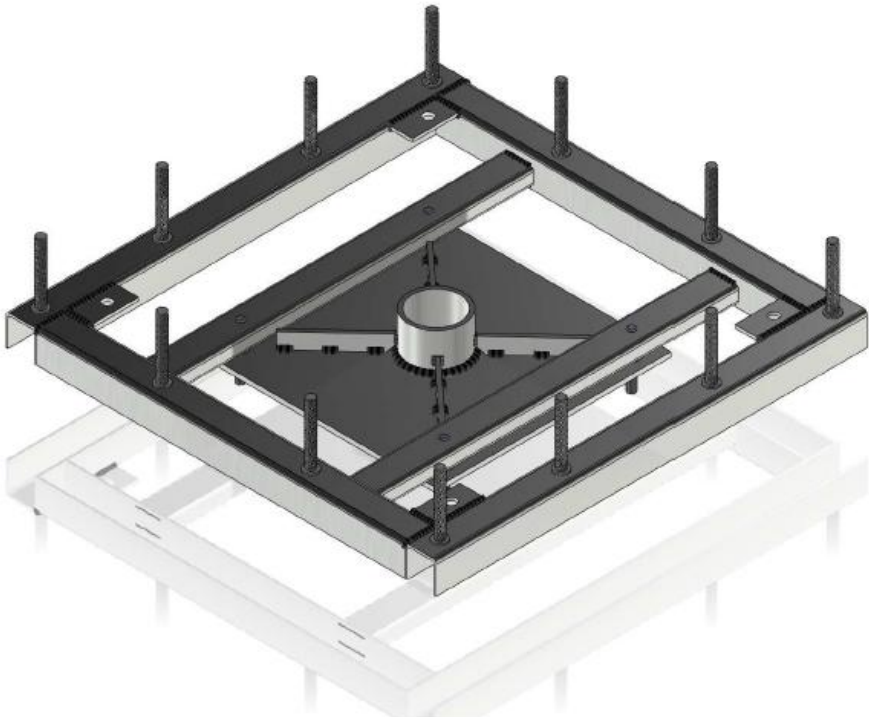
Picture 5.



Picture 6.



Picture 7.



Picture 8.

Installation Procedure

1. Prerequisites for the installation :

1. The device must be installed only by O.M.S. authorized technicians.
2. During the installation 2 technicians at least must be present.
3. The power supply of the installation place must always be unplugged (OFF) before the installation.
4. The maximum height of the fixing point on the ceiling must be below 300 cm.
5. The instrument table must be installed at the height indicated in **pictures n. 2 ,3,4**. Therefore, if necessary, the supporting tube (4) in **picture n. 1** must be shortened depending on the height of the fixing point on the ceiling.
6. The covering ring for screws and the clutch are already installed on the supporting tube.
7. The lamp support (optional) is already installed.
8. Make sure the ceiling of the room can carry the weight of 200kg/mq, which is within the law for residential buildings.
9. Make sure that the floor above the fixing point is not loaded with more than 100 kg .
10. The support of the ceiling flange (2) is 55 x 55 cm. If the ceiling is made of brickconcrete (as in most cases), the anchorage to the ceiling is possible only if the wheelbase of the concrete common joists is below 50 cm. If the ceiling is made of reinforced concrete there are no restrictions.
11. If the conditions of the points 6-7-8 can not be respected all at the same time, the anchorage must be evaluated by a qualified technician.
12. The electrical and hydraulic installation from the floor to the flange (2) must pass through a tube with a diameter of 40 mm inside the wall or, alternatively, an external rectangular raceway, which will guarantee an equivalent or bigger surface than a tube with a diameter of 40 mm .
13. If any brickwork is needed to position the tube with a diameter of 40 mm., be careful not to weaken the concrete structures present in the ceiling, in the external walls or in the floor.

2. Fixing the flange to the ceiling:

- a. Establish the fixing point with reference to the raceway of the cables on the ceiling and to the centre of the chair. See **pictures n. 2,3,4,5,6** depending on the version of the Universal Star to be installed.
- b. Fix the flange to the common joists (if present) with 8 thread bars. Before the next step, please separate the ceiling flange (2) from the tube flange(3).
- c. Using the flange (2) or the installation plan as a guide, drill diagonally 2 holes with a drill with a diameter of 12 in the established point of the ceiling, lean the flange and fix the two thread bars as in point **d.** , paying attention to apply the flange after waiting the necessary time according to the wall temperature. When the flange is positioned, make the remaining 10 holes. Remove the flange and fix the thread bars as showed in point **d.**, paying attention to apply the flange after waiting the necessary time according to the wall temperature. Fix the flange to all 12 anchorage points as described in point **d.** For these holes please use only the supplied parts (1). To fix the nut to the washer please use a tube spanner with a diameter of 13 mm.
- d. Instructions for fixing the thread bars and mounting the nuts.
 - Drill without using the percussion (only if there is brick) for a depth of 96 mm. During this operation it is recommendable to vacuum the powder by placing a vacuum cleaner near the hole.
 - Clean carefully the hole using compressed air or a vacuum cleaner.

- Insert the provided wall anchor.
- Fill totally the wall anchor with 2,5 cm of the supplied resin.
- Insert the thread bar from the side of the 45° bevel by turning it in a clockwise direction.
- Apply the flange after waiting the necessary time according to the wall temperature. See the chart below:

-5° ÷ 0°	0° ÷ 5°	5° ÷ 10°	10° ÷ 20°	20° ÷ 30°	30° ÷ 40°
24h	3h	90 min	60 min	45 min	35 min

- Fix the flange to the ceiling with the nuts joined to the washers using a tube spanner with a diameter of 13mm and a tightening torque of 20 Nm.

3. Installation of the tube on the flange

- Follow the instructions of **picture n. 5**.
- The supporting tube(4) is supplied with an already installed screw covering ring (7) and a clutch.
- The lamp support (optional) is already installed.
- Insert the flange cover (22) on the top of the tube
- Mount the tube on the flange as indicated in **picture n. 5**, making sure :
 - not to let the tube come out from the top of the flange, it must stop 3 mm before
 - to match the holes for a correct alignment as in **picture n.5**
- Fix the flange to the tube by blocking the special screw present in the fixing clamp.
- Pass the cables of the instrument table through the tube from the lower to the upper end.

4. Installation of the arm of the instrument table

- Following the instructions of **picture n. 6**, connect the arm (14) to the supporting tube (4) matching the alignment labels and block the fixing screws (18).

5. Fix the tube flange to the ceiling flange :

- Follow the instructions of **picture n. 6**.
- Insert the first four nuts and the washers in the screws of the ceiling flange (2).
- Insert the tube flange (3) in the screws of the ceiling flange (2).
- Screw up the nuts and the rest of the washers, without locking them, in the screws of the ceiling flange (2).
- Look at **picture n.1** and follow the correct assembly sequence of the above mentioned washers and nuts.
- Adjust the perpendicularity of the tube by using the nuts and lock the flange (3) with the nuts.

6. Connect the earth wire to the earthing in the tube flange.

7. Lean the flange cover (22) against the ceiling and fix the four supplied screws.