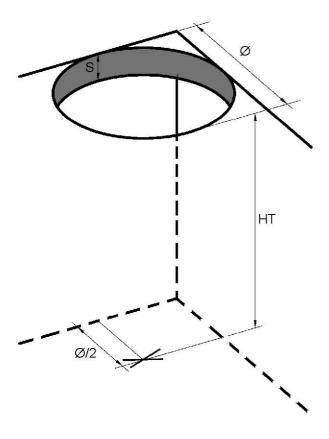
INSTALLATION INSTRUCTIONS F20

- ENGLISH -

Installation instructions F20 Al-fdm-02,01-EN

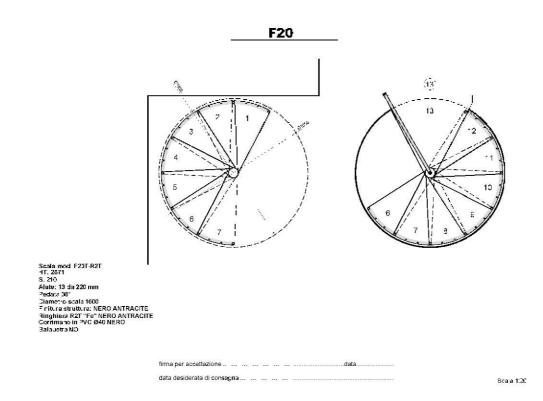


Measurement checks and staircase project



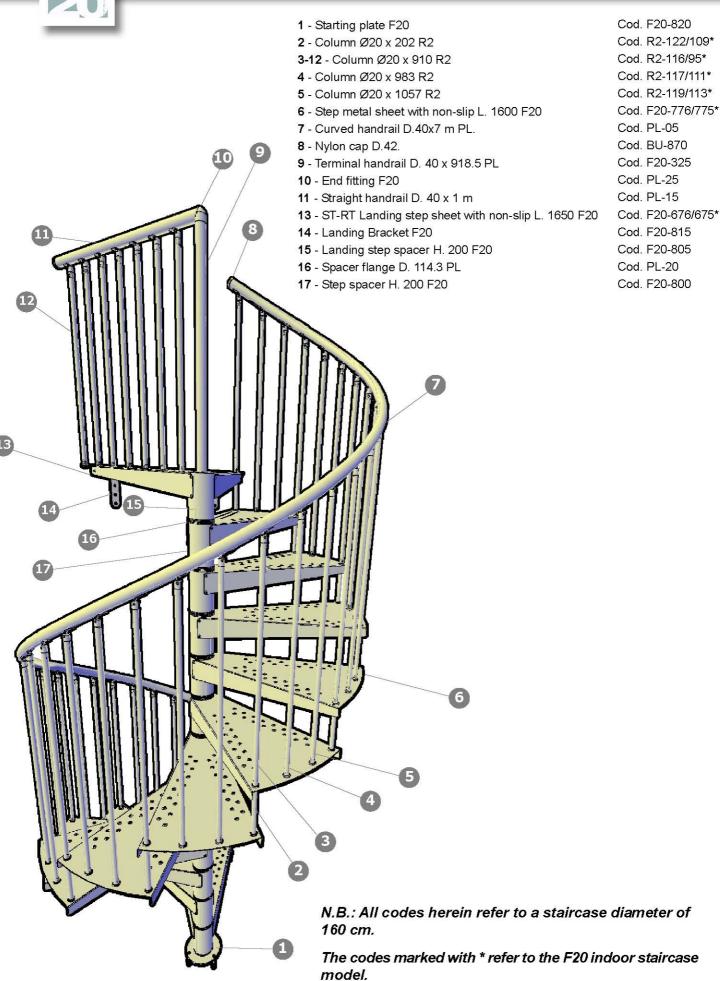
Check the dimensions of the stairwell and the total height, comparing them with the project. Using heights, locate the exact center of the staircase, and mark it on the floor.

"Staircase Project"





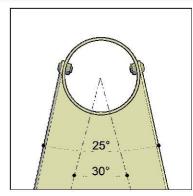


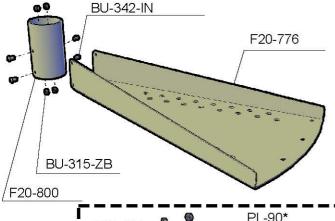


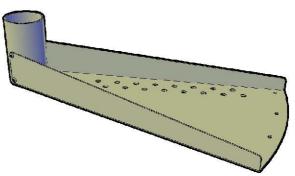


Separate the steps tubulars from the tubular for the landing identifying them through their different holes (see figures A and B).

Assemble the step metal sheets to the tubulars, using the TBCE screws code BU-342-IN with the 4 M8 hexagonal nuts code BU-315-ZB.



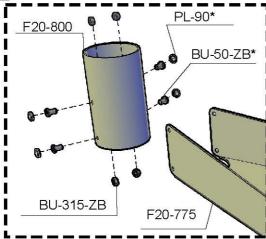




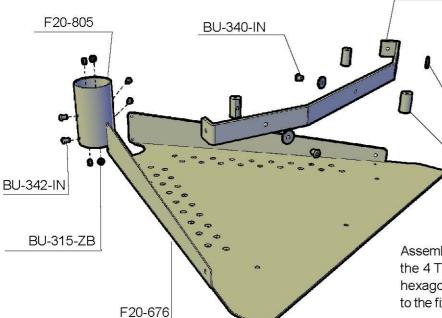
В

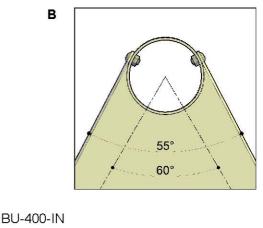
F20-825

Α



In the indoor staircase version, the TPCE screws code BU-50-ZB and related screw caps are used, as highlighted here.

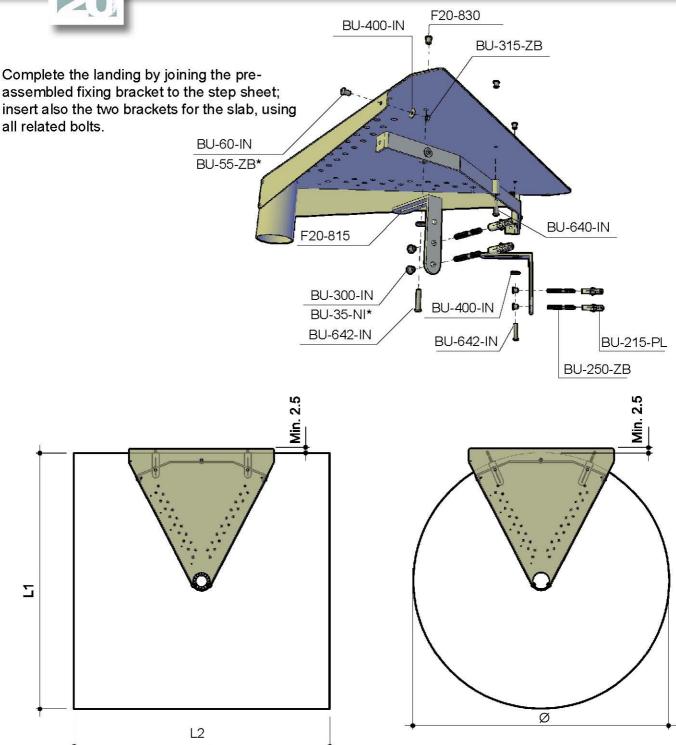




Assemble the landing plate to the relative tubular, using the 4 TBCE screws code BU-342-IN with the M8 hexagonal nuts code BU-315-ZB. Attach the 3 pawls to the fixing bracket using the relative screws, as shown.

F20-725



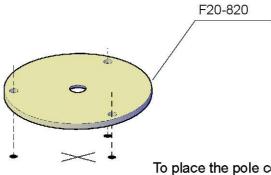


The landing step, suitable for both square and round holes, must be placed in contact with the floor above, leaving a minimum overlap of 2.5 cm.

The table below indicates the possible hole measurements for each staircase diameter.

*	Ø 110	Ø 120	Ø 130	Ø 140	Ø 150	Ø 160
\circ	Ø min. 115	Ø min. 125	Ø min. 135	Ø min. 145	Ø min. 155	Ø min. 165
	L1 min. 115 L2 min. 115	L1 min. 125 L2 min. 125	L1 min. 135 L2 min. 135	L1 min. 145 L2 min. 145	L1 min. 155 L2 min. 155	L1 min. 165 L2 min. 165



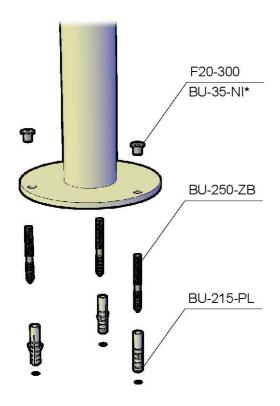


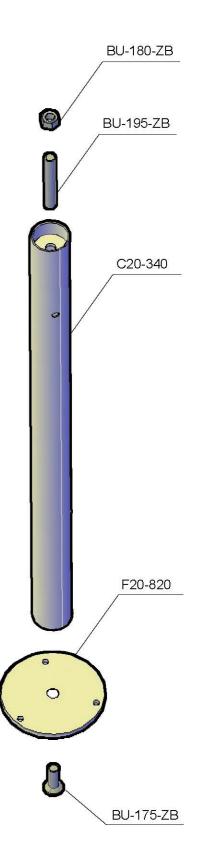
To place the pole correctly, use the starting plate as a "template" and center it with respect to the X previously marked on the floor that determines the center of the staircase (see page 2).

Mark the center of the plate holes on the floor, then drill 3 holes of Ø12 mm.

Apply to the top of the first pole to be used, the threaded bar code BU-195-ZB, which will be used to install all the other poles.

Assemble the starter plate with the screw TPS M20 code BU-175-ZB on the first pole section, then fasten everything to the ground with the appropriate bolts.

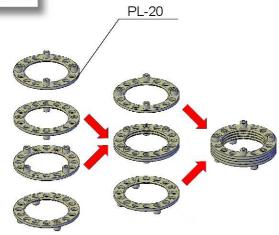




Alzata = 21

2 X

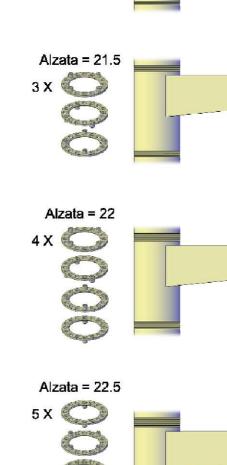




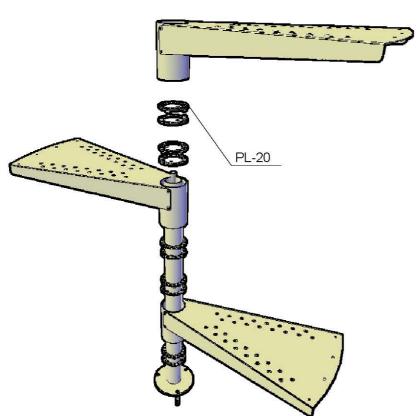
To assemble the steps to the pole correctly, check the value of the risers from the staircase project.

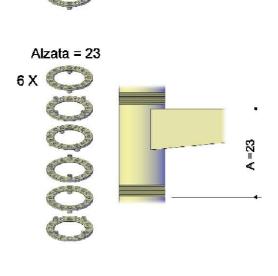
Assemble the plastic spacers code PL- 20, as shown in the picture above and respect the quantities shown in the diagram on the side, depending on the riser.

Start assembling the steps and relative flanges to the pole up to the end of the useful height of the internal pole: start by juxtaposing each step to the other, so as to balance the weight of the staircase.

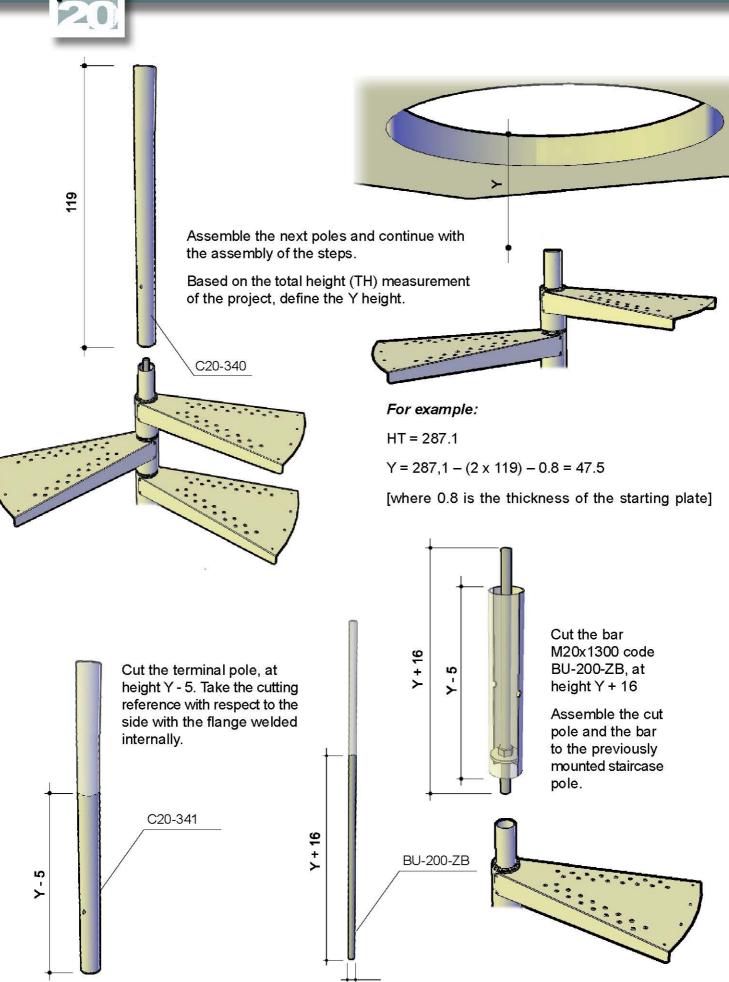


A =21.5









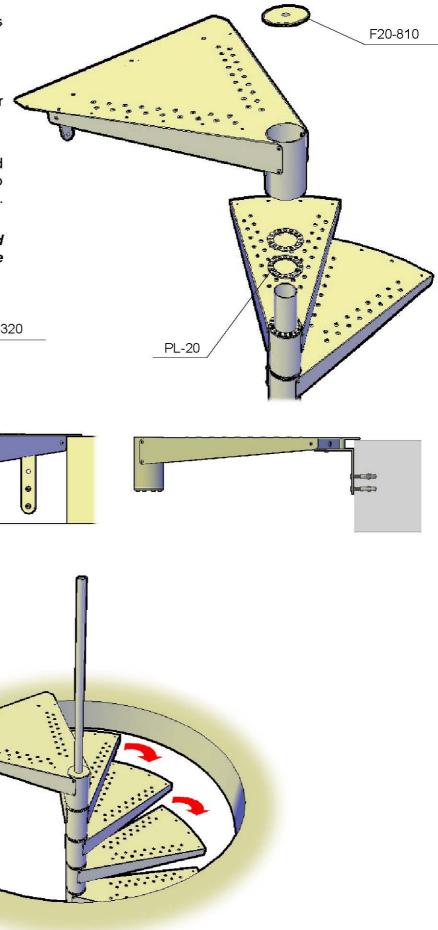
Assembly of the landing step to the pole

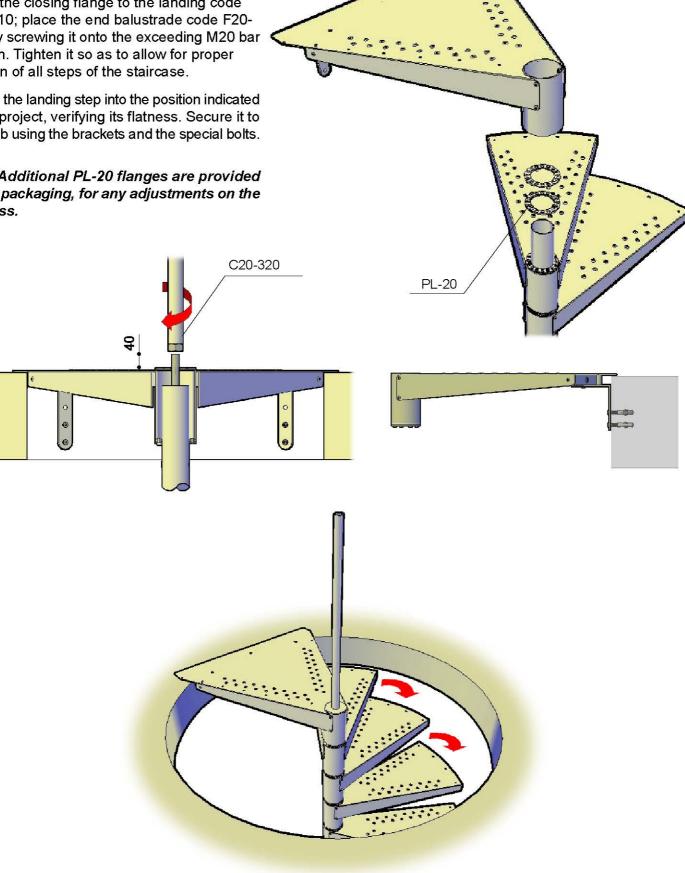
Complete the assembly of the remaining steps leaving the landing step last.

Apply the closing flange to the landing code F20-810; place the end balustrade code F20-320 by screwing it onto the exceeding M20 bar section. Tighten it so as to allow for proper rotation of all steps of the staircase.

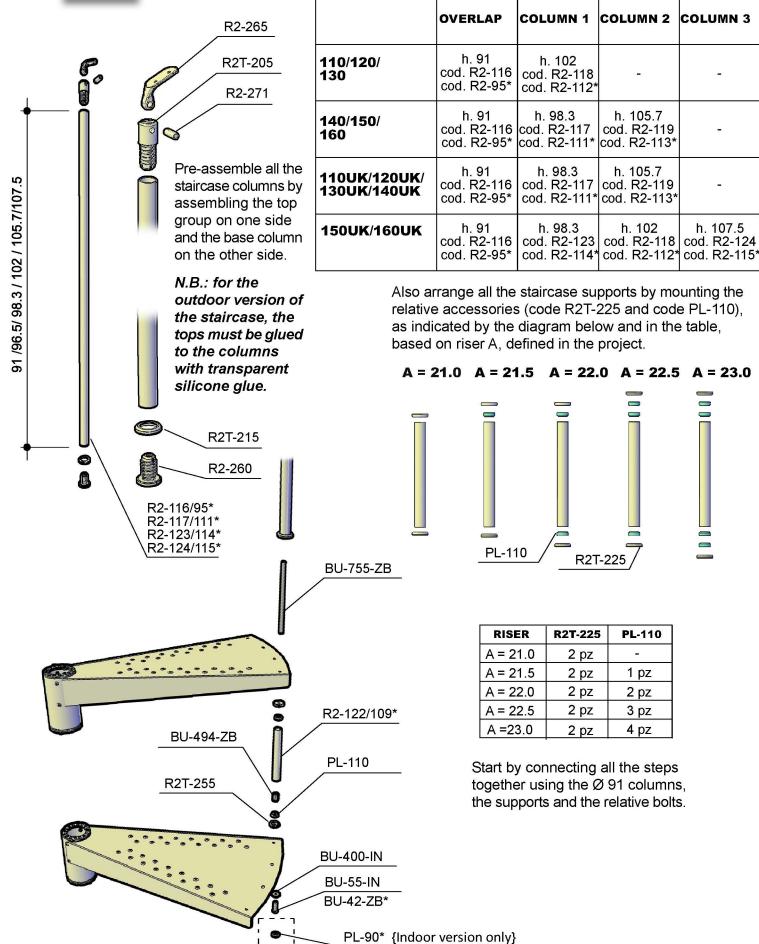
Rotate the landing step into the position indicated in the project, verifying its flatness. Secure it to the slab using the brackets and the special bolts.

N.B.: Additional PL-20 flanges are provided in the packaging, for any adjustments on the flatness.



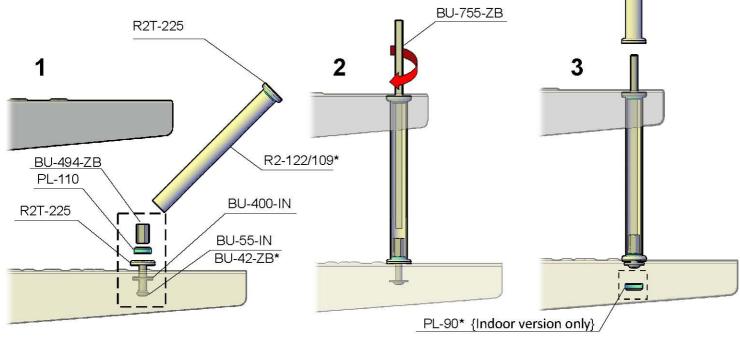








To assemble the through columns correctly, follow these steps (1,2,3,4).

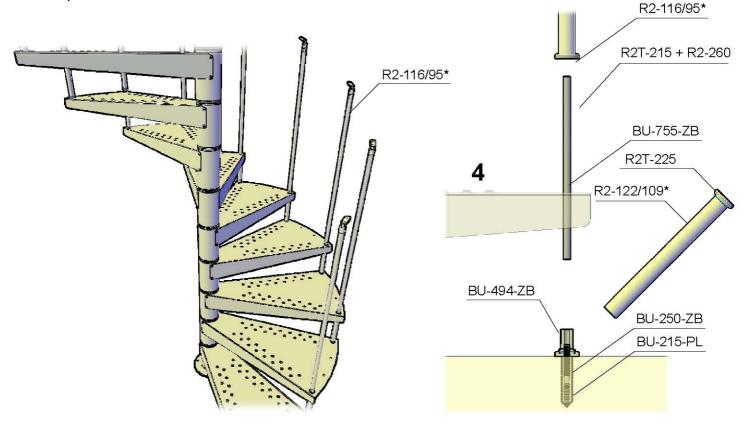


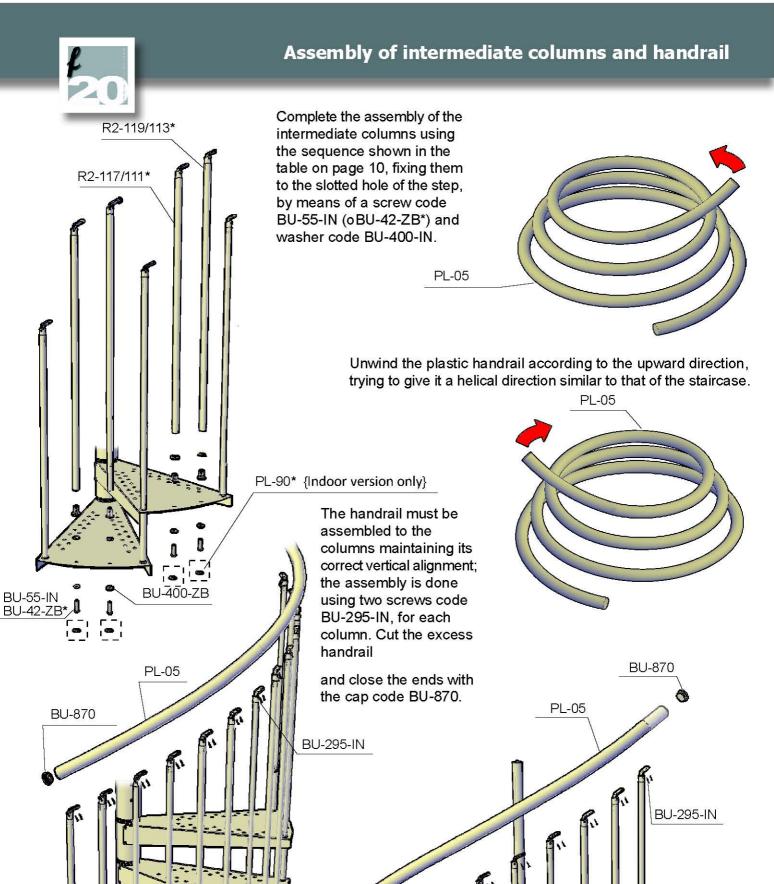
1) Insert all the bolts and the PL-110 and R2T-225 accessories (whose number varies according to the lift) in the hole at the back of the step, without tightening permanently. Introduce

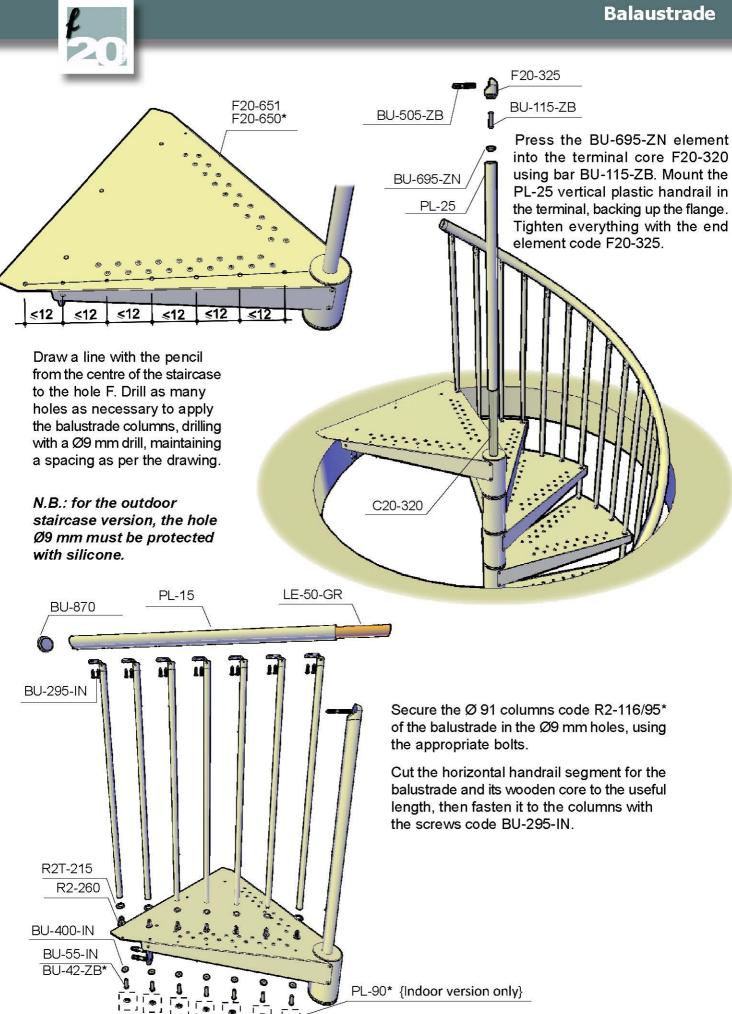
the support from the external side of the staircase, in the space between one step and the other. 2-3-4) Complete the connection between the steps with the threaded bar and the column from L.91, aligning them with the front hole of the step.

Repeat for all the columns of the overlap (h. 91), with the exception of the first column of the starting step, which must be fixed to the floor.

Please note: once this phase has been completed, the staircase must be tightened thoroughly: 170 Nm. (See page 9).

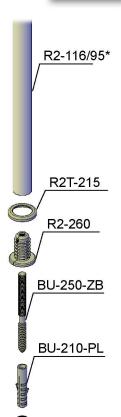






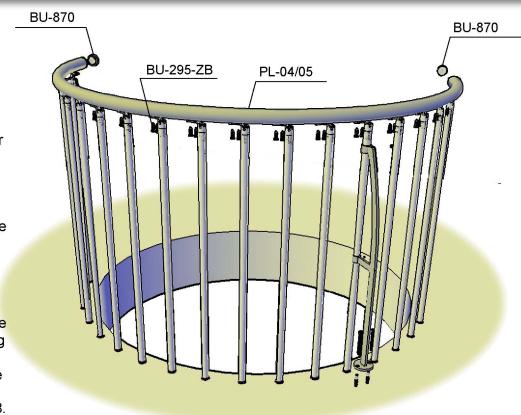
200

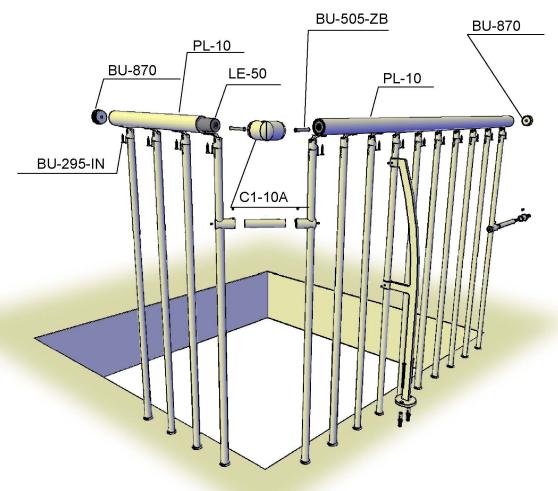
Balaustrade on circular and rectangular hole



Mark on the floor the drilling sequence of the columns, maintaining a sufficient distance from the

edge of the hole (≥6 cm) and a center distance ≤ 12 cm. Apply the handrail securing it to the columns of the balustrade with the screws code BU-295-ZB.

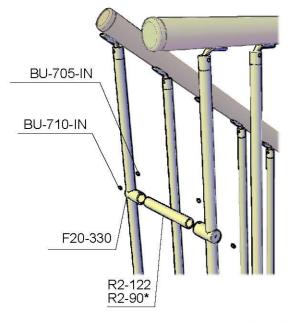


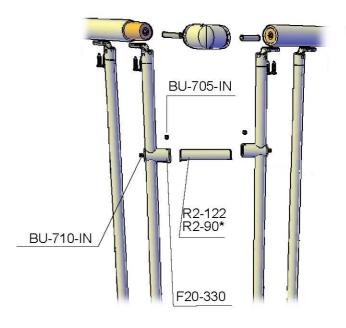




Column - Column Lateral stiffening

Column - Column Orthogonal stiffening



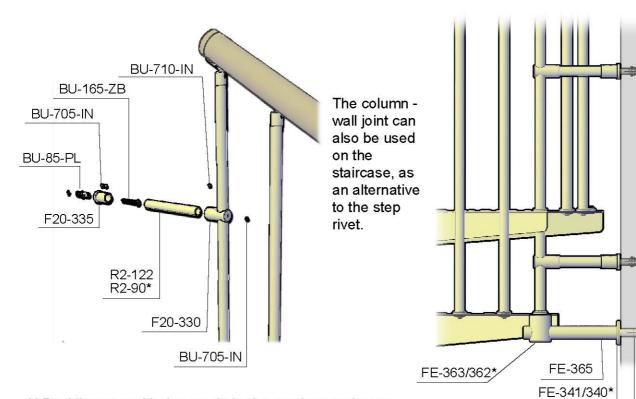


Cut the joint R2-122/90* to the useful length and secure it to the columns, as shown in the figure.

Column - wall stiffening

Staircase - wall stiffening

BU-215-PL



N.B.: All cuts and holes made in the outdoor staircase version must be protected with silicone.



Starting column stiffening Riser trim **Balustrade stiffening** BU-108-IN R2-175 BU-710-IN R2-185 F20-330 BU-172-ZB BU-705-IN BU-705-IN R2-108 BU-165-ZB FE-175 BU-172-ZB BU-85-PL BU-108-IN **Ground support** BU-467-ZB R2-260 R2T-215

N.B.: All cuts and holes made in the outdoor staircase version must be protected with silicone.

