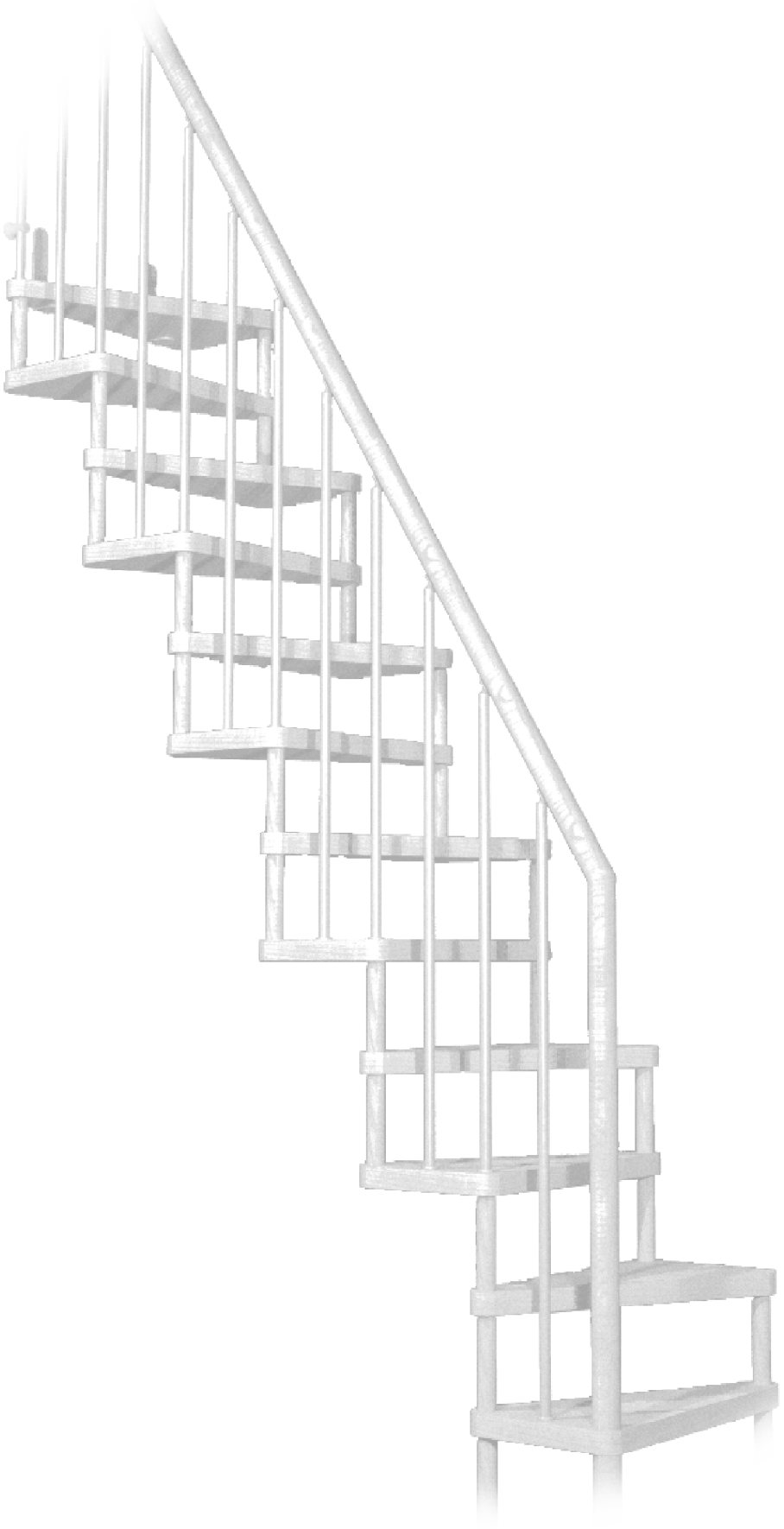
T20 STAIR MOUNTING INSTRUCTIONS



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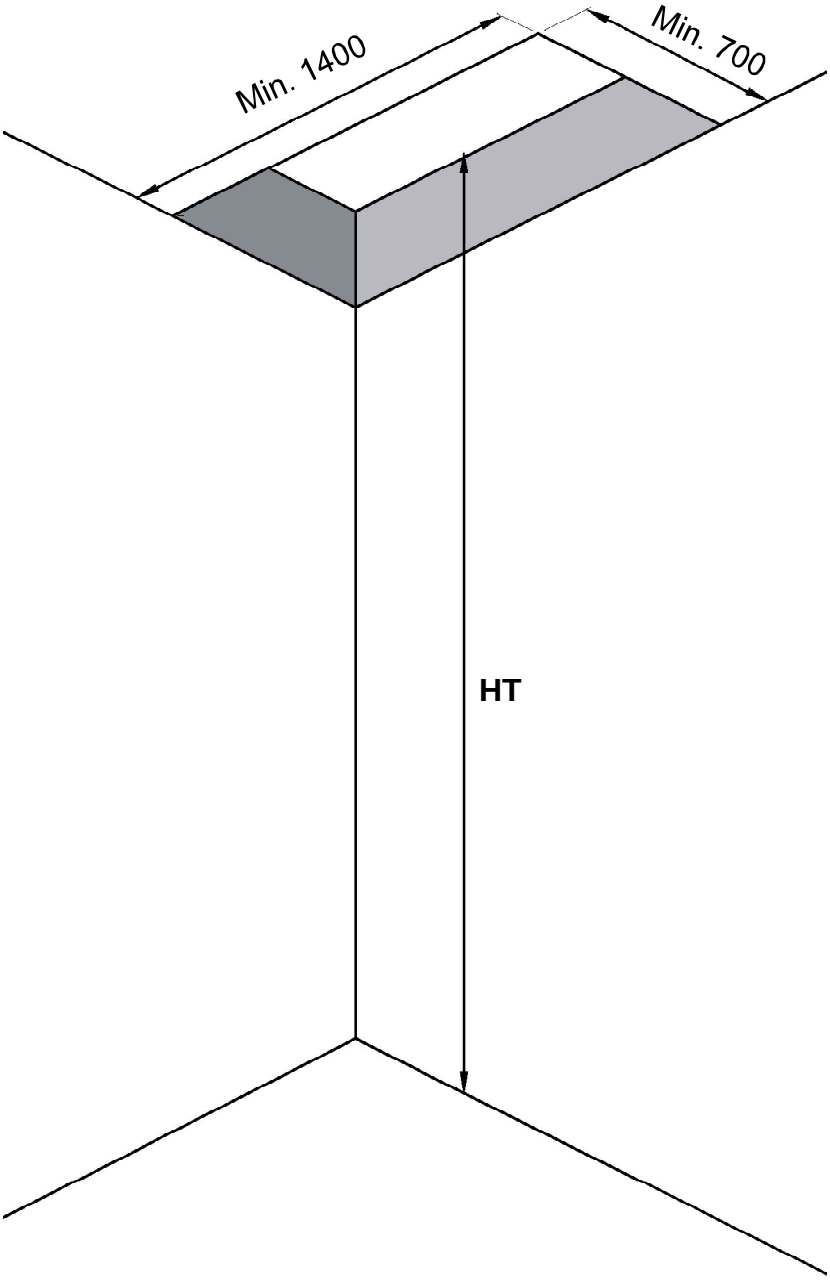
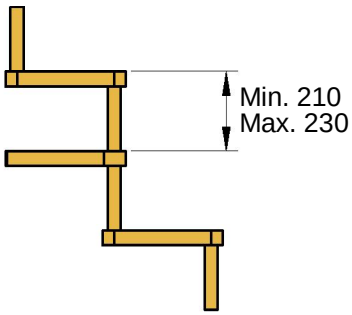
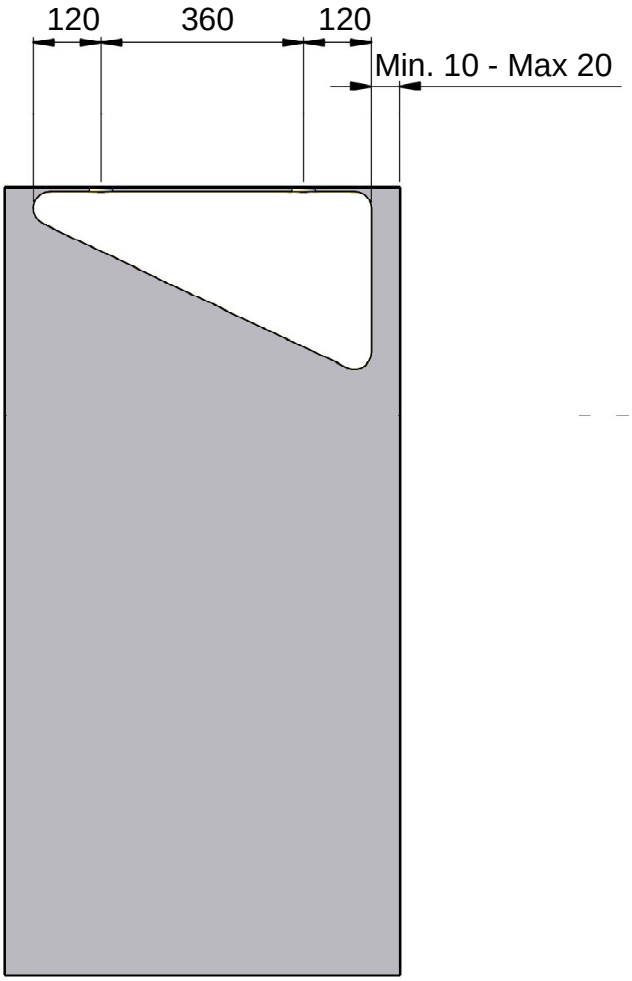


Measuring the staircase area

Check the size of the staircase area by measuring the total height (**HT**) between the bottom floor and the landing floor.
Calculate the rise size (**A**), dividing the **HT** by the number of treads + 1.

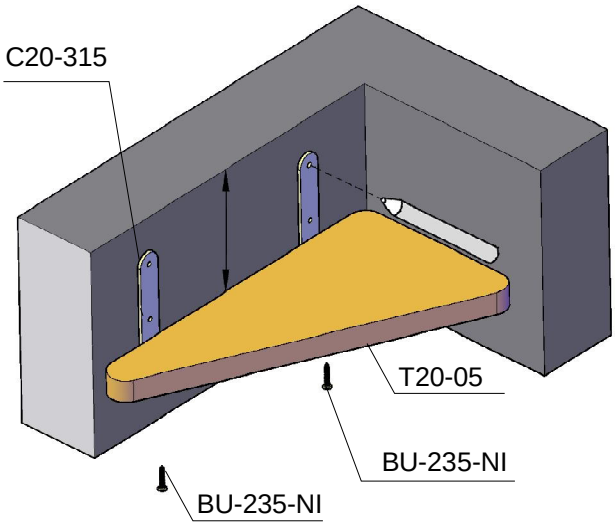
A = HT : Number of treads + 1





Mounting the landing tread

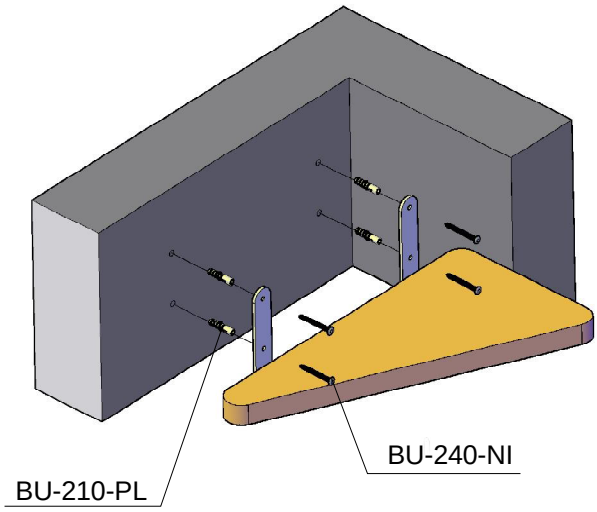
Place the landing tread at a minimum distance of 10 mm and a maximum one of 20 mm from the wall.
Then place the brackets at a distance of 120 mm from the tread ends and fix them with screws.

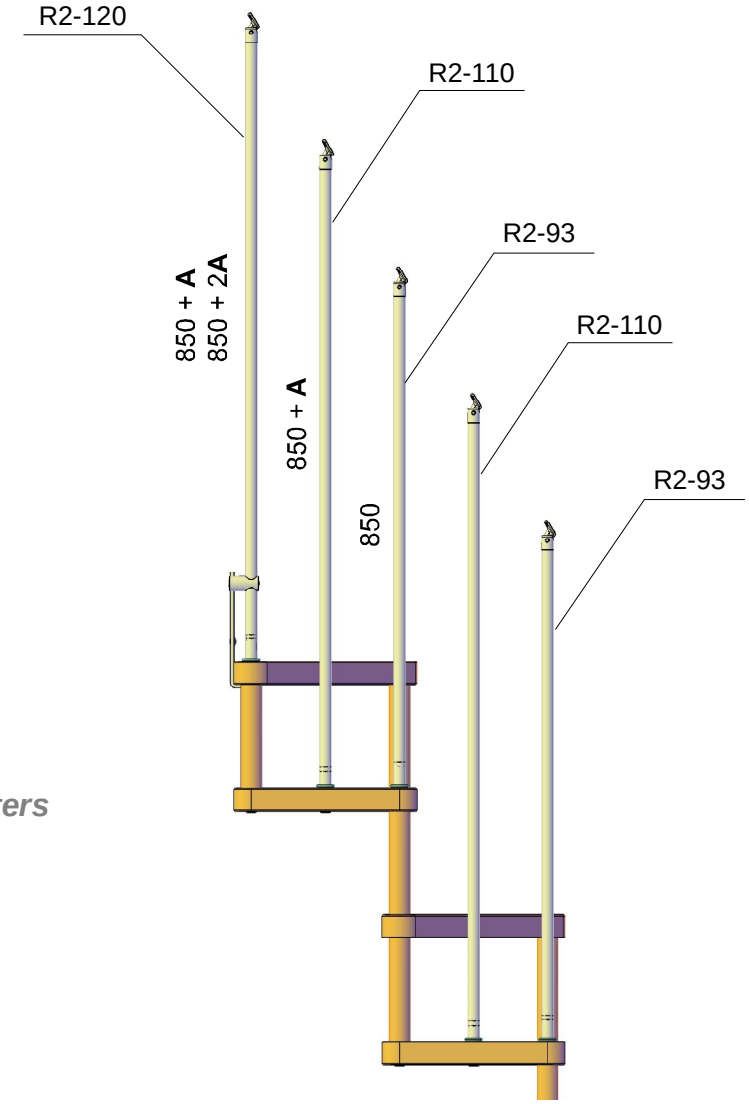


Mounting the landing tread.

Place the landing tread at a rise height below the landing floor and check its straightness.
Mark the drilling points where to fix the brackets (C20-315).

Mark where the landing tread has to be fixed with the relevant nuts and bolts supplied (BU-240-NI and BU-210-PL).





Assembling the treads and balusters

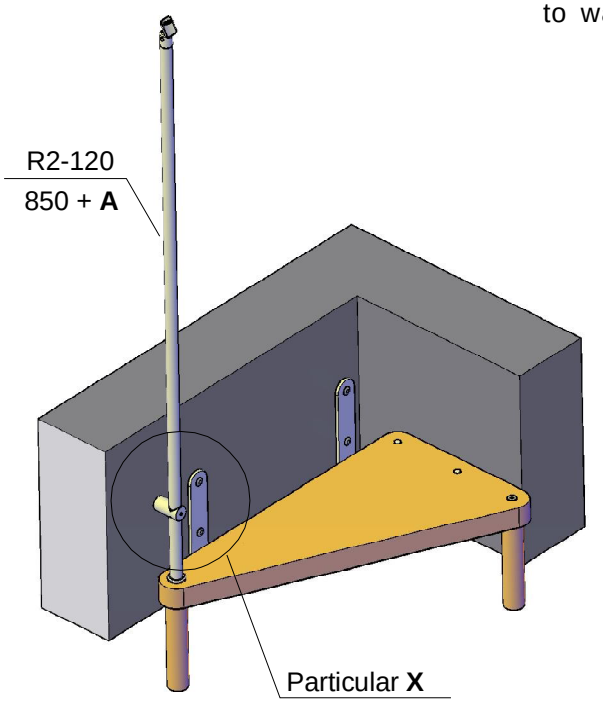
The balusters (R2-93) that are positioned on each tread overlap are 850 mm high, while the intermediate ones (R2-110) are 1165 mm and must be cut to size

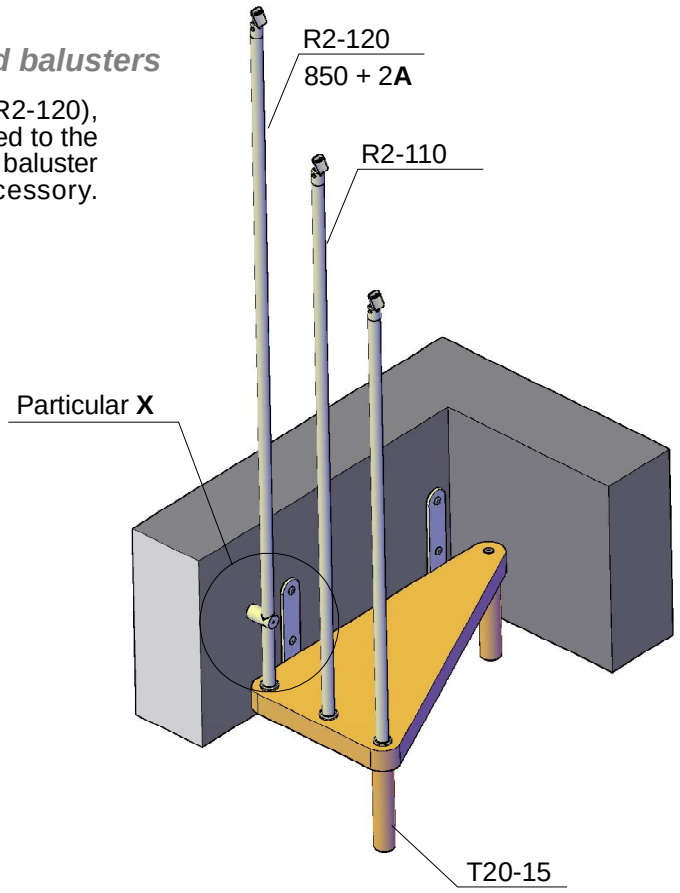
850 mm + **A** (rise size)

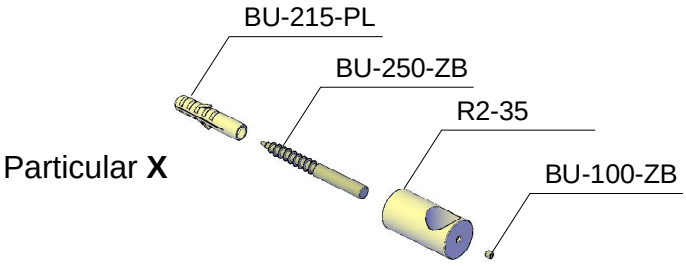
The last baluster (R2-120) which can also be fixed to the slab, is 1310 mm high and must be cut to size.

Mounting the treads and balusters

The last railing baluster (R2-120), that is 1310 mm high is fixed to the slab by means of a special baluster to wall strengthener accessory.

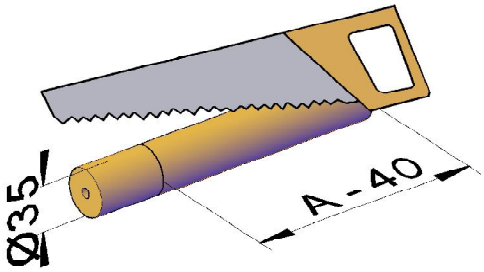


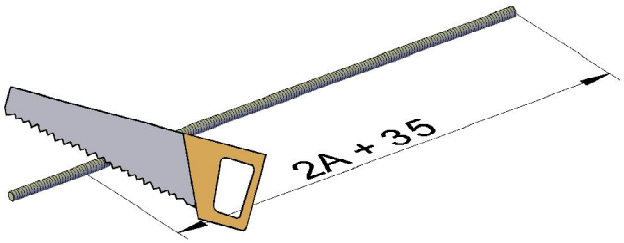




Preparing the stair elements

Cut all the 35 mm diameter supports at a height which is equal to **A-**40 mm.



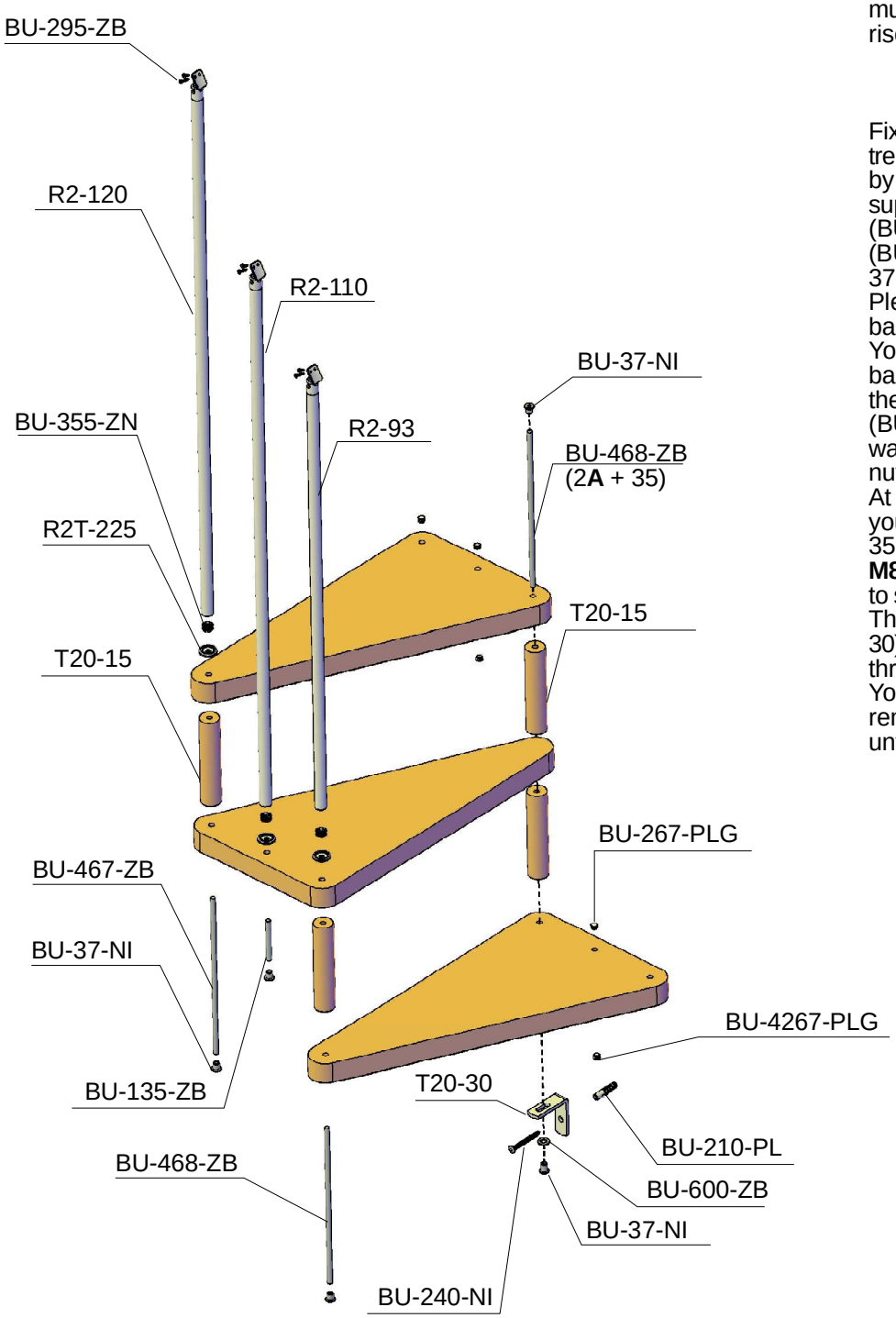


Mounting the treads and balusters

The threaded bar (BU-468-ZB) which is needed to fix the treads at the side where there is no handrail, must be cut to size according to the rise dimension (**A**):

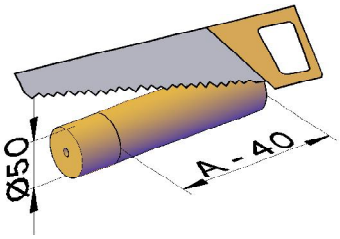
2 **times A +** 35mm

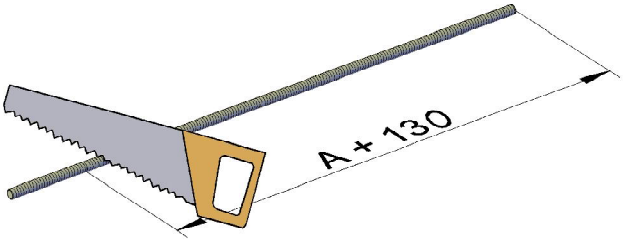
Fix the balusters to the overlapping treads by joining them to one another by means of the 35 mm diam. supports (T20-15), the threaded bar (BU-468-ZB) the inserting washer (BU-355-ZN) and the blind nut (BU-37-NI).
Please insert into each baluster the base blind washer (R2T-225).
You then assemble the intermediate balusters (R2-110) too and blocking them by means of the threaded bar (BU-135ZB), the pressure inserting washer (BU-355-ZN) and the blind nut (BU-37-NL).
At the side where there is no railing, you fix the treads by means of the 35 mm diam. supports (T20-15), the **M8** threaded bar (BU-355-ZN), cut to size, and the blind nut (BU-37-NI).
The wall supporting brackets (T20-30) must be fixed to the wall, at every three treads.
You proceed to assemble the remaining treads in the same way until you reach the starting tread.

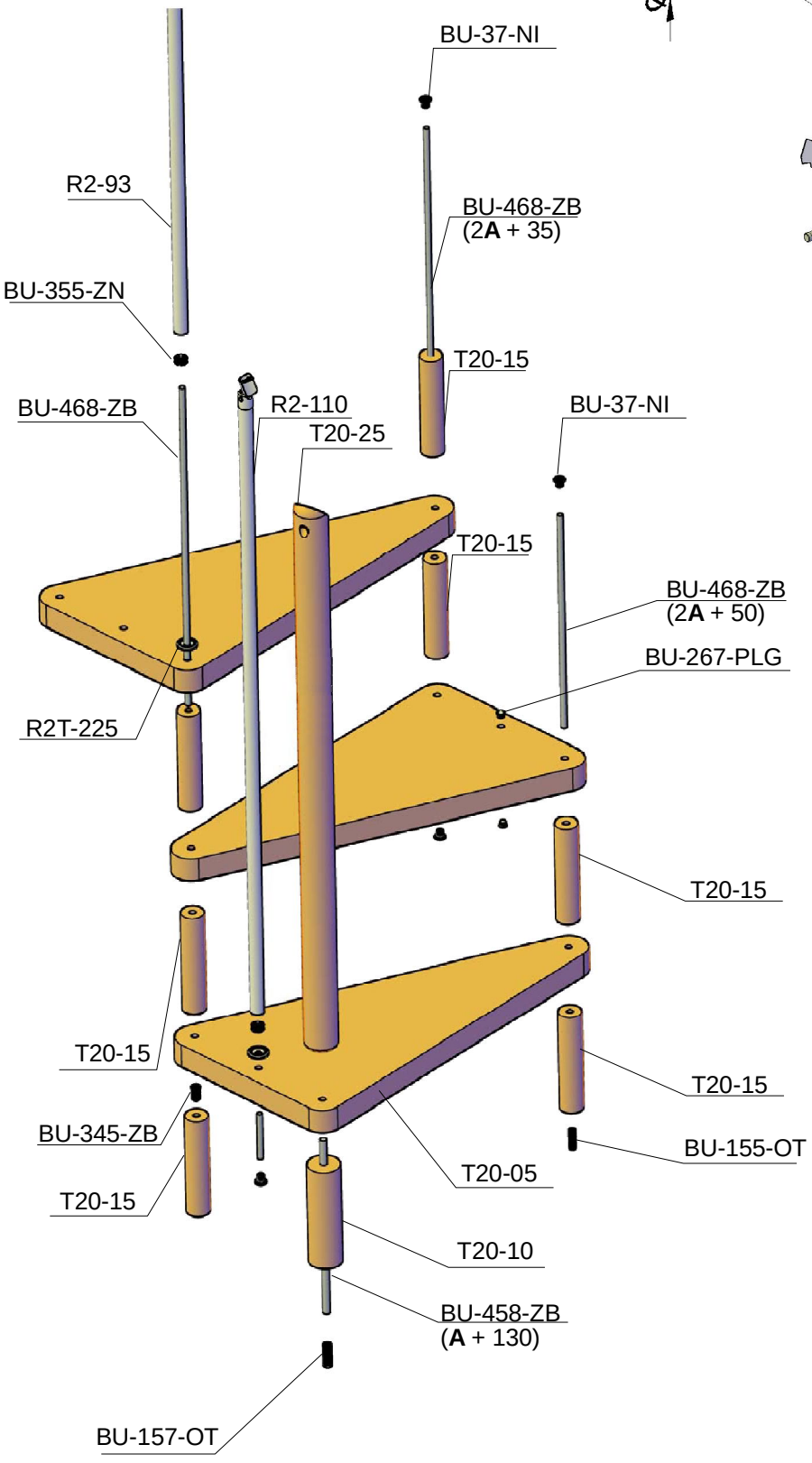


50 mm diameter supports

Cut all 50 mm. supports (T20-10) at a height which is equal to **A-**40 mm**.**







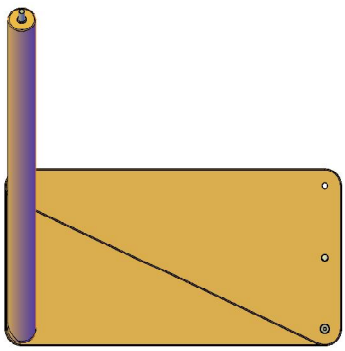
Threaded bar

The threaded bar (BU-458-ZB), which is needed to fix to the floor the 50 mm support (T20-10) of the starting tread, must be cut to the size of the chosen rise size **A:**

A + 130 mm

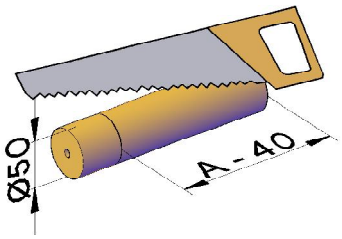
Assembling the starting tread

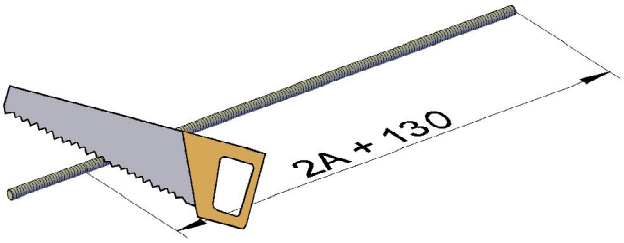
Example A
Assemble the newel (T20-25) to the tread (T20-05) and to the 50mm support (T20-10) that, by means of the passing through threaded bar (BU-458-ZB) and a chemical brass screw (BU-157-0T), will fix the stair to the floor.
Repeat the same operation at the side without handrail, by using the 35 mm supports (T20-15).
Underneath the starting tread, a 35mm support (T20-15) will be fixed and blocked to the floor by means of the threaded bar (BU-468-ZB) inserted into the previously prepared hole, together with the element (BU-345-ZB).
Finally, you close the holes on the treads where there is no handrail, with the proper plastic caps (BU-267-PLG).



50 mm diameter supports

Cut all 50 mm. supports (T20-10) at a height which is equal to **A**-40 mm**.**

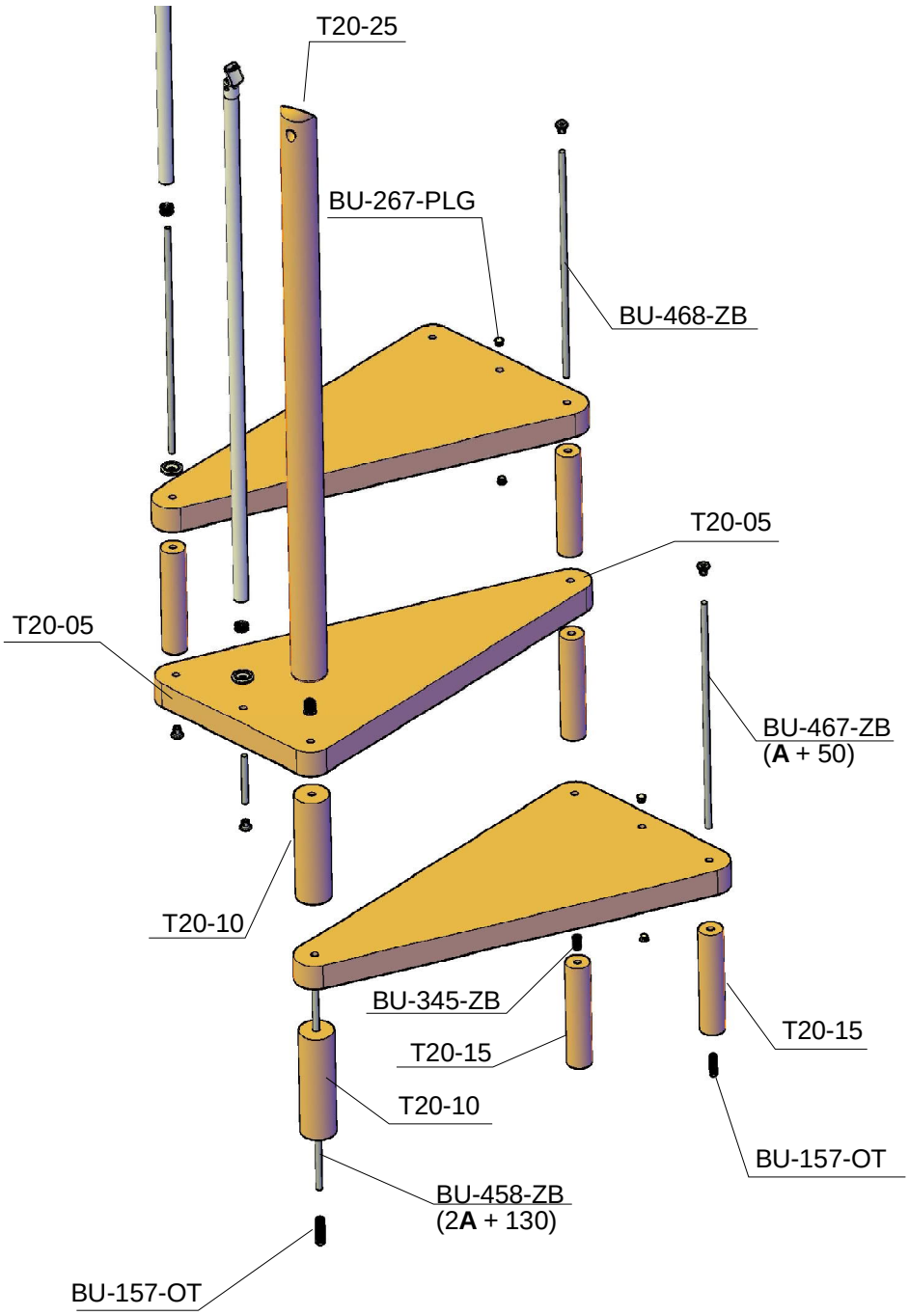




Threaded bar

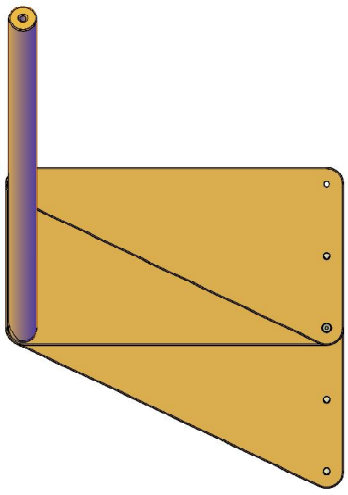
The threaded bar which is needed to fix to the ground the 50 mm support (T20-10) under the starting tread, is 600 mm long and must be cut to size according to the chosen rise size (A):

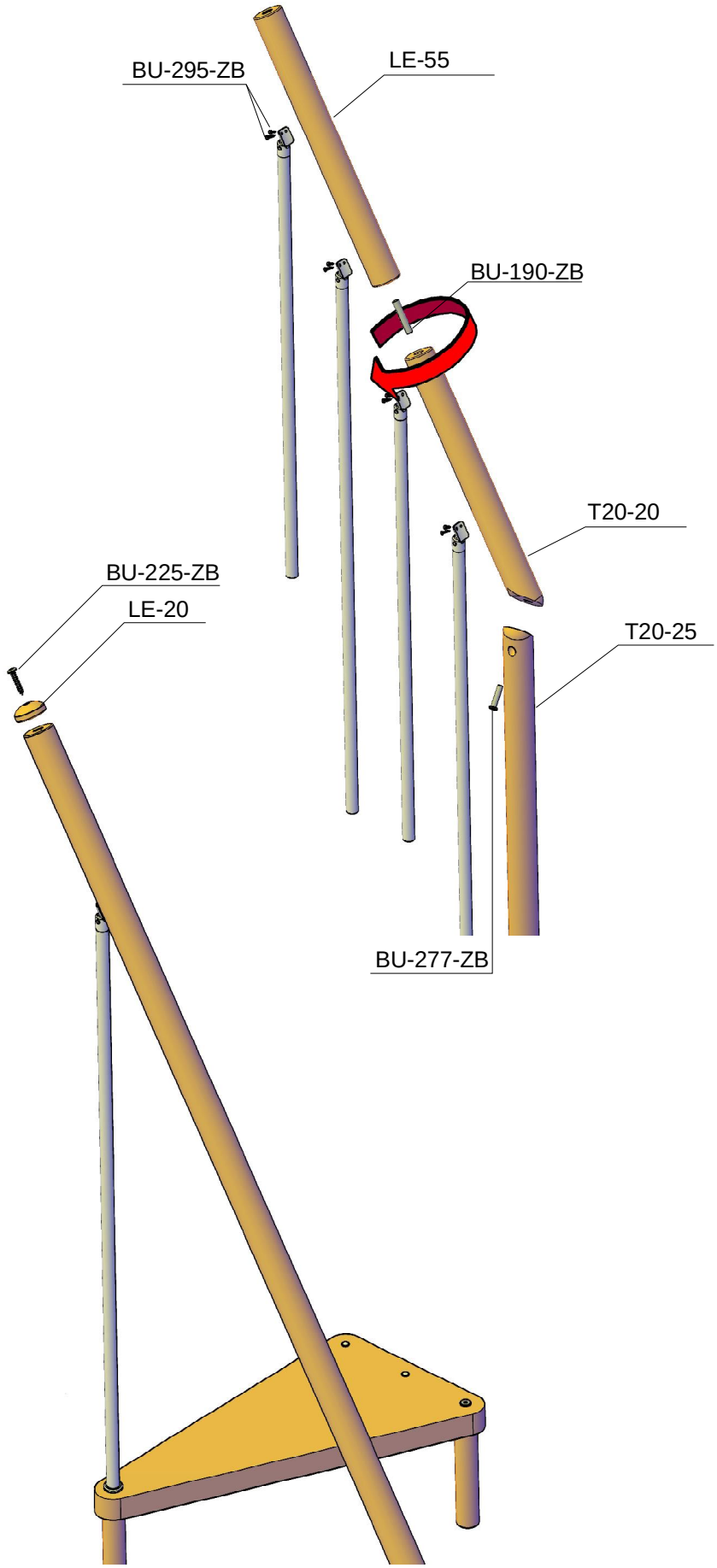
Two times **A** + 130 mm

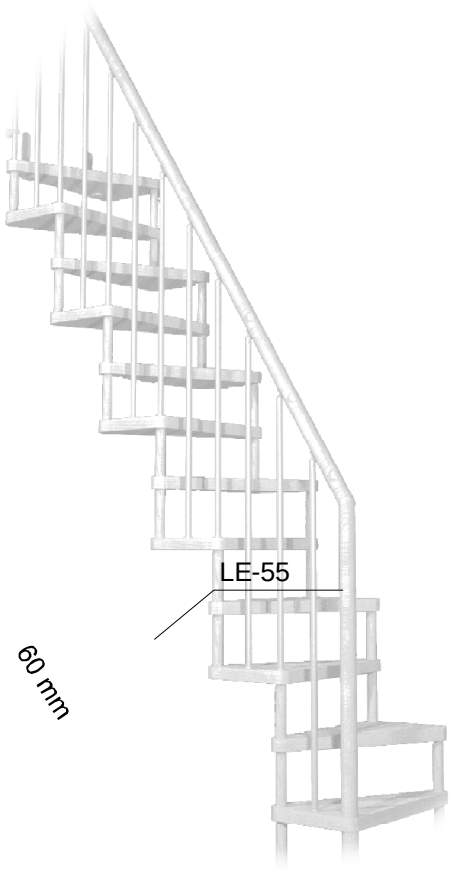


Assembling the starting tread

Example B
Assemble the newel (T20-25) to the tread (T20-05) and 50mm support (T20-10) that, by means of the threaded bar and a chemical brass screw, will fix the stair to the floor. Repeat the same operation at the side without handrail, by using the 35 mm supports (T20-15). Underneath the starting tread, a 35mm support (T20-15) will be fixed and blocked to the floor by means of the threaded bar inserted into the previously prepared hole, together with the element (BU-345-ZB). Finally, you close the holes on the treads where there is no handrail, with the proper plastic caps (BU-267-PLG).

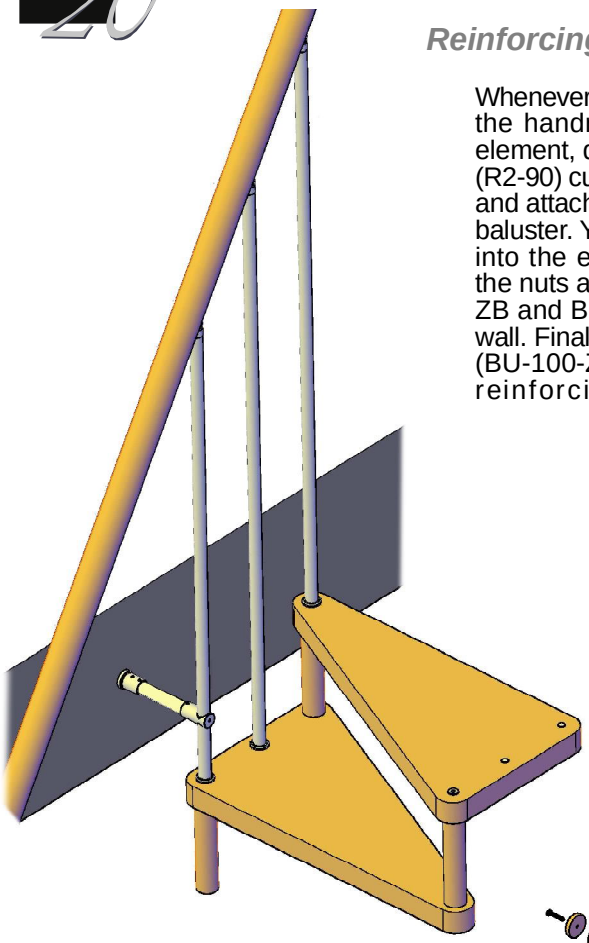






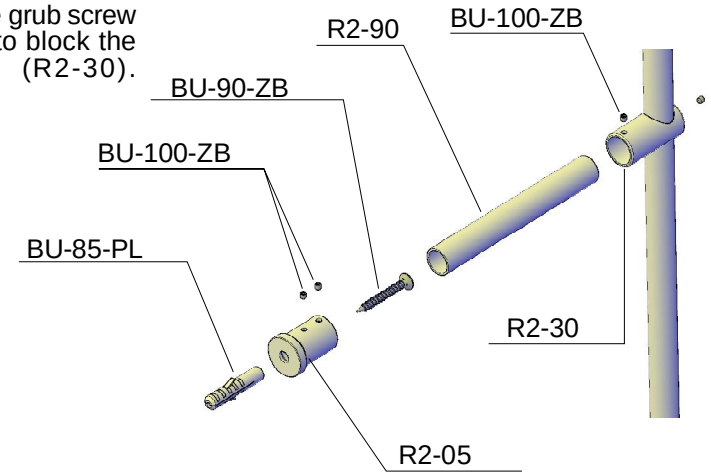
Assembling the handrail

Assemble the handrail sections (LE-55) by rotating them with the threaded bar supplied (BU-190ZB). The last handrail section has to be cut at 60 mm from the center point of the attachment fixed into the last baluster and closed with the supplied plastic cap (BU-295-ZB).
Finally, fix all the balusters to the handrail by means of the self threading screws supplied (BU-295-ZB).



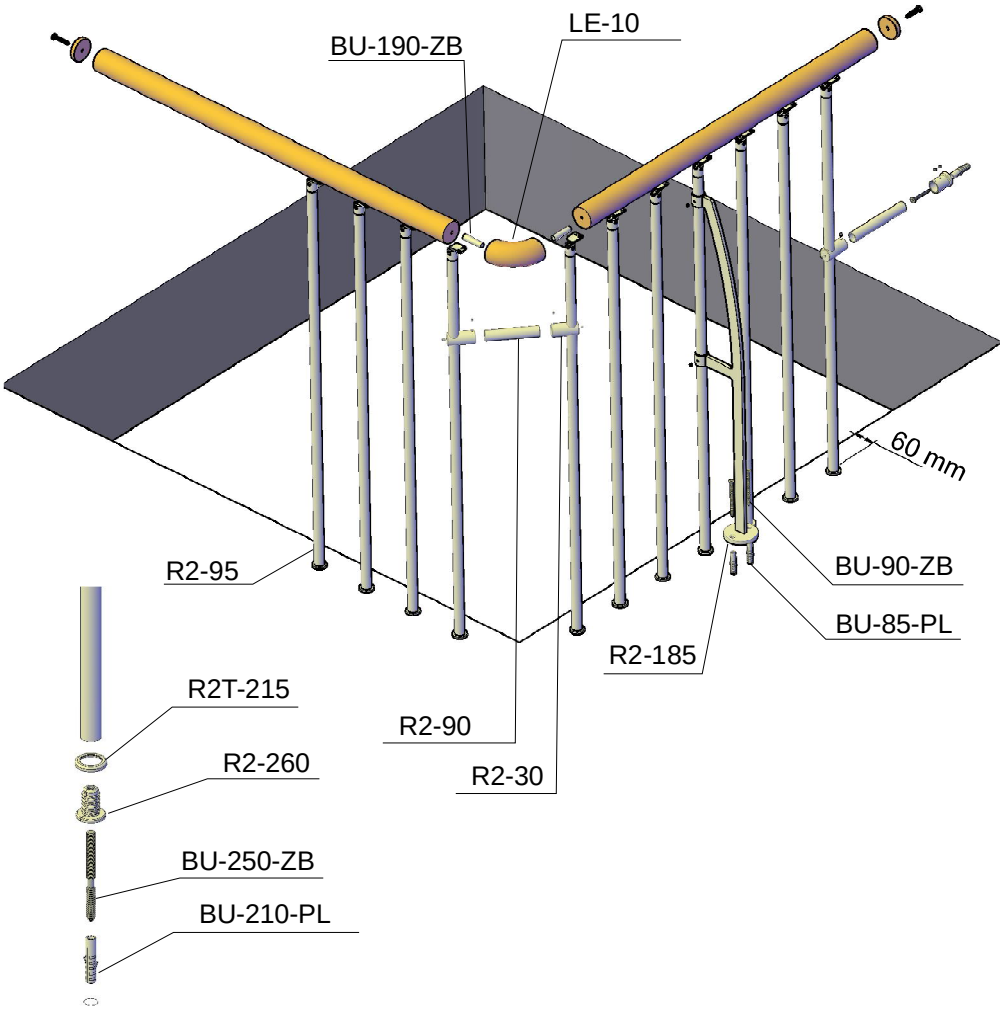
Reinforcing the handrail to the wall

Whenever possible you can reinforce the handrail by using the (R2-30) element, duly connected to the tube (R2-90) cut to size, fixed into the wall and attached to the passing through baluster. You insert the tube (R2-90) into the element (R2-05) and with the nuts and bolts supplied (BU-90-ZB and BU-85-PL), you fix it to the wall. Finally, you use the grub screw (BU-100-ZB) supplied to block the reinforcing element (R2-30).

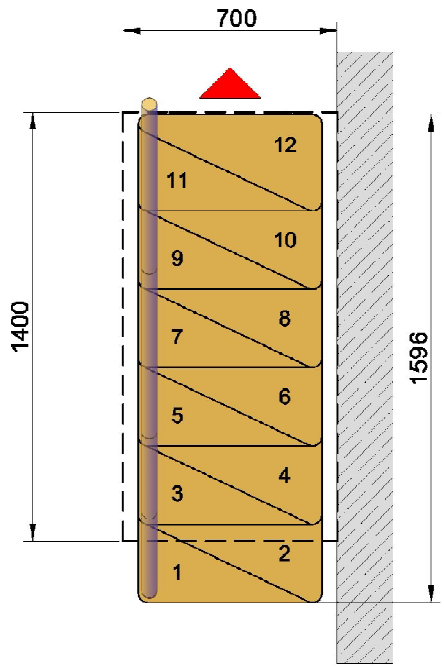


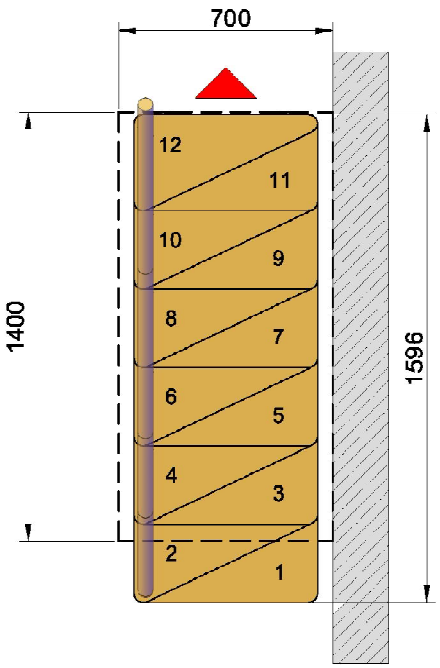
Balustrade

In order to fix the balustrade properly and avoid damages to the floor, the balusters should be placed at a distance of 60 mm. from the well edge.
The balusters (R2-95) are fixed into the floor. You then insert into the balusters the plastic component (R2T-215) and (R2-260); after having drilled the landing floor, you then fix the baluster with the espansion screw (BU-210-PL) and the element (BU-250-ZB).
Connect the terminal parts of the handrail with a 90° wood joiner (LE-10).
Strengthen the balustrade by means of the reinforcing bar (R2-185) which is fixed to the floor with chemical and ordinary screws (BU-85-PL and BU-90-ZB) and to the baluster (R2-95) with some grub screws (BU-100-ZB).
Join the two perpendicular balusters to the balustrade sections, by means of the element (R2-90), cut to size and the two R2-30 elements, each one of them inserted in the balusters and blocked by some grub screws (BU-100-ZB).

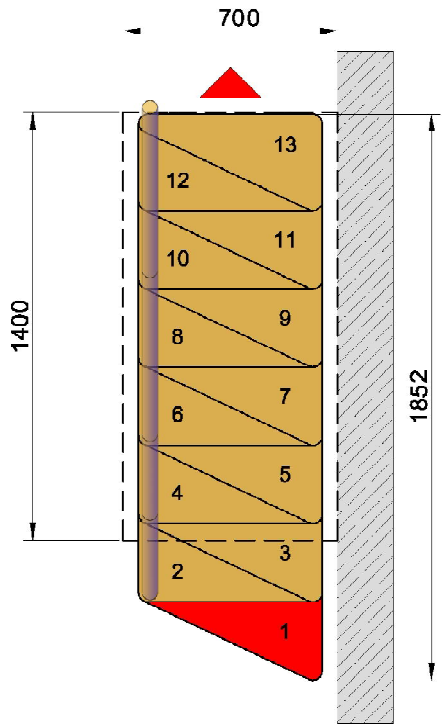


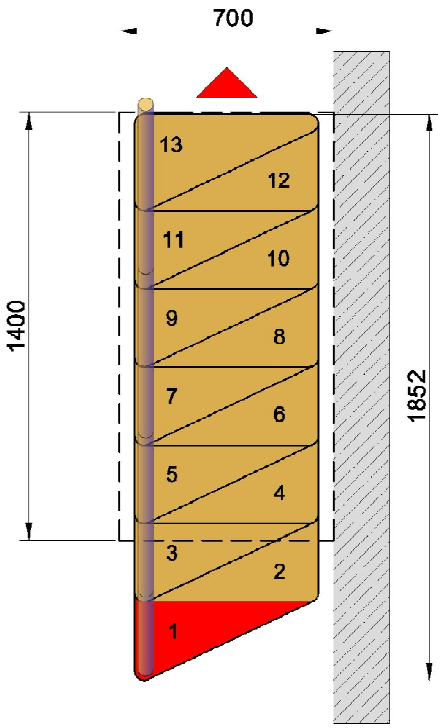
12 treads



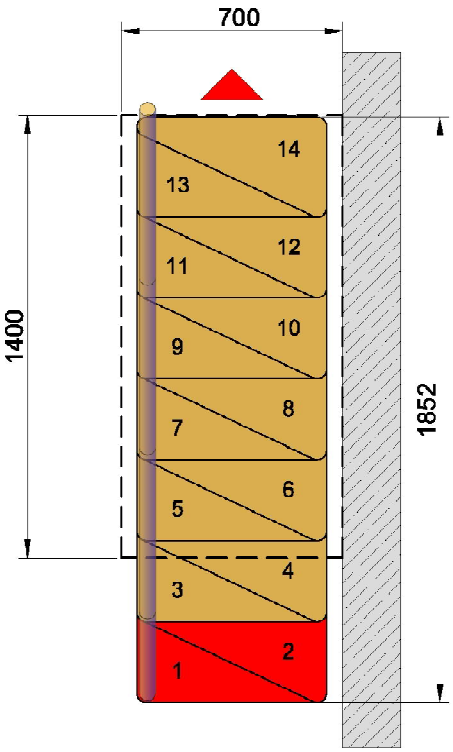


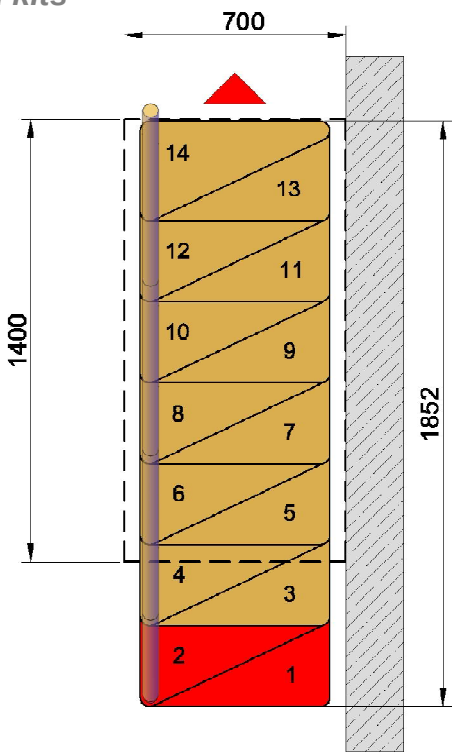
12 treads + 1 tread kit





12 treads + 2 tread kits





12 treads + 3 tread kits