

Quality assurance

Risk Areas Checklist

1. Foundations

The new loads that are going to be charged to the existing building, furthermore the deterioration of the existing ones make necessary reinforcement. This process is probably the most dangerous, because it has to be done really carefully not to damage the building and the distribution of the loads.

Also new foundations will be made. Ones for the extension and another ones for the elevators.

2. Balconies-Extension

The first process needed is the demolition of the existing balconies, which means also a risky work. After that, all the new metallic structure (columns, beams, and joists) for the extension has to be perfectly placed.

At the end, the placement of the cladding and the connection with the existing wall is really important not to allow the cold bridges.

3. Staircase/lift

The lifts mounting, due to the workings at height, is an important activity to be analysed.

Also the staircase beside will need access to the basement and to the roof.

4. External walls

A new light façade will be placed over the existing one.

It will have new insulation, furthermore the structure that supports the finishing of ceramic pieces. It's really important that all this system be well fixed to the existing wall.

Also the new windows in their connection with the wall to avoid the cold bridges.

5. Roof

The change of the existing slope roof into a flat roof means the demolition of the existing one. All this workings in height and the possible fall of objects need an extra attention to this process.

In the construction of the new flat roof, the placement of the waterproofing is very important to avoid water infiltration.

Finally, also the construction of a safety parapet needs extra attention.

6. Penthouse

The placement of the new penthouse needs to be just above the old walls to guarantee the vertical distribution of the new loads.

(roof, windows, walls,...)