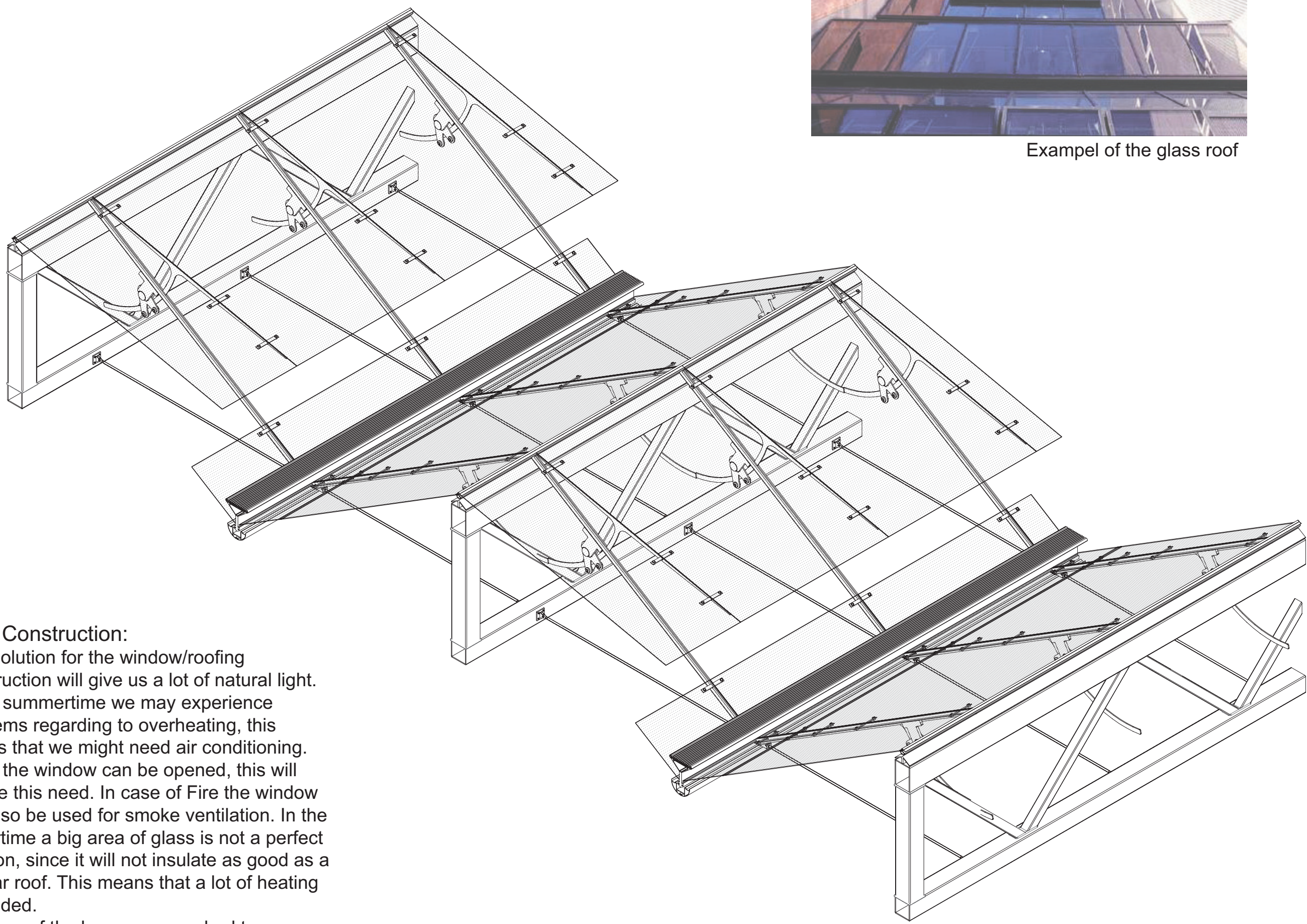
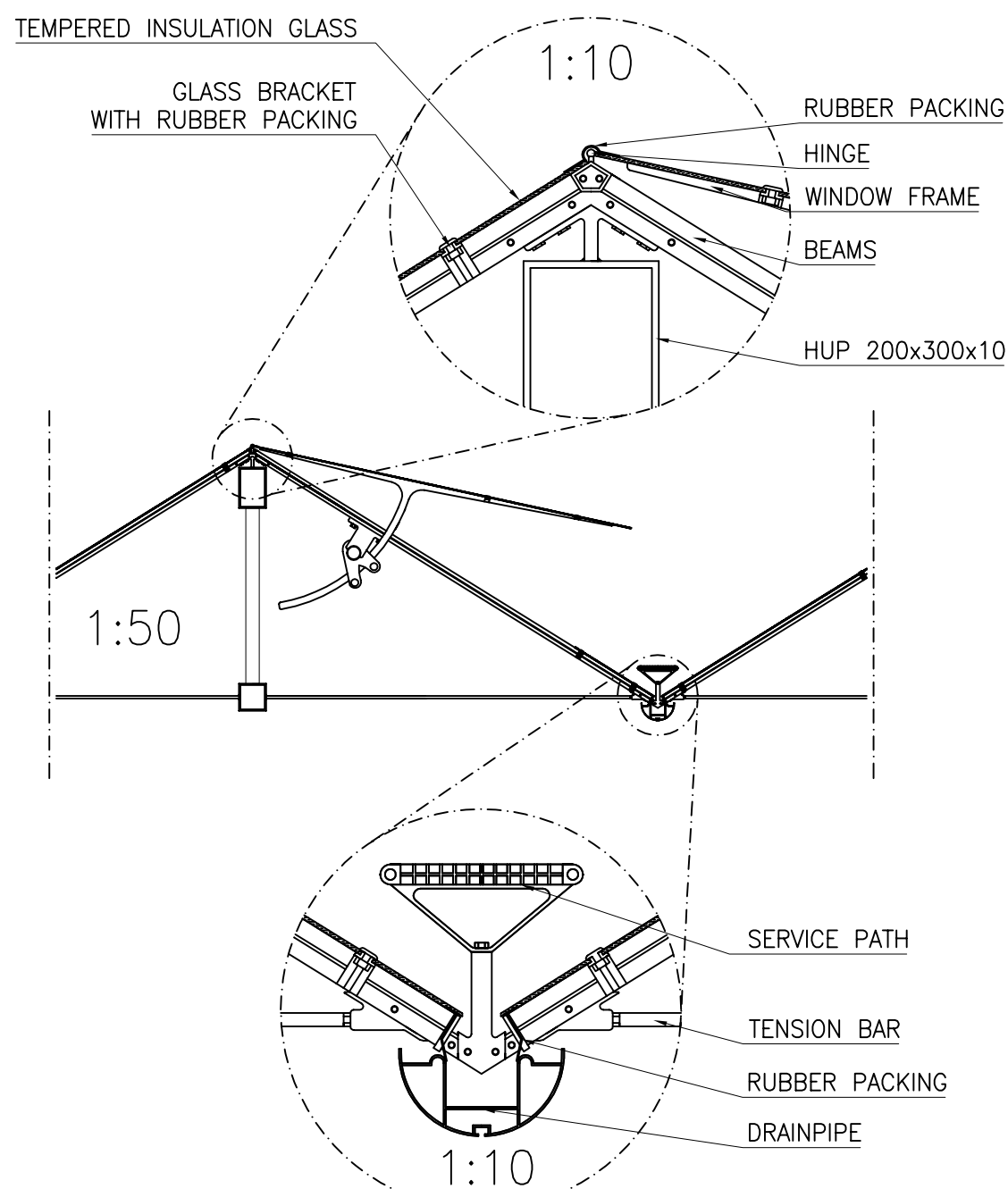


CONSTRUCTION

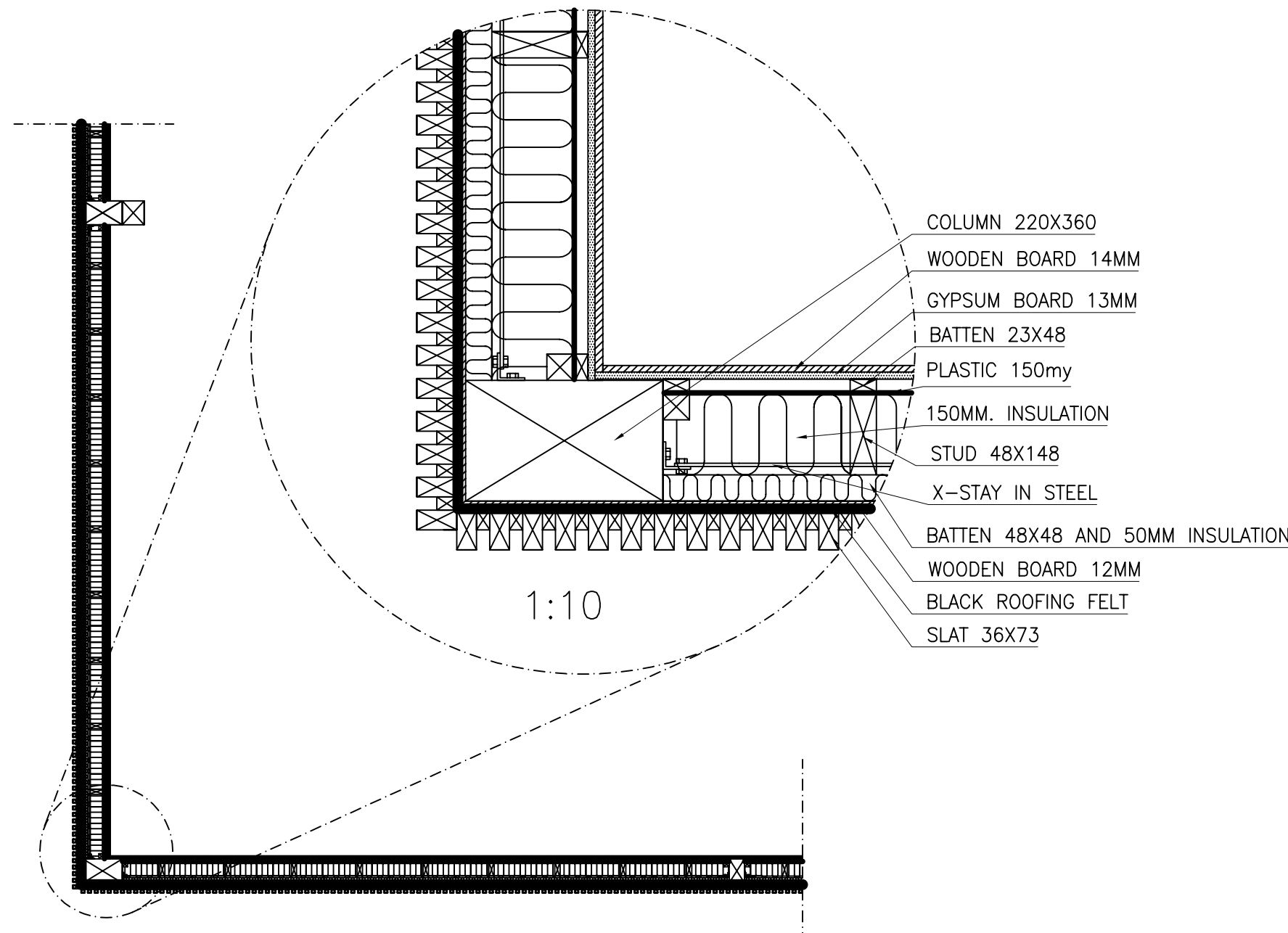


Roof Construction:
This solution for the window/roofing construction will give us a lot of natural light. In the summertime we may experience problems regarding to overheating, this means that we might need air conditioning. Since the window can be opened, this will reduce this need. In case of Fire the window can also be used for smoke ventilation. In the wintertime a big area of glass is not a perfect solution, since it will not insulate as good as a regular roof. This means that a lot of heating is needed. Because of the long range we had to use a steel construction-beam. Laminated and tempered glass is used for safety. In the lowest section of the glass there is a service path which you can walk on for cleaning or maintainance, underneath there is a drainpipe.

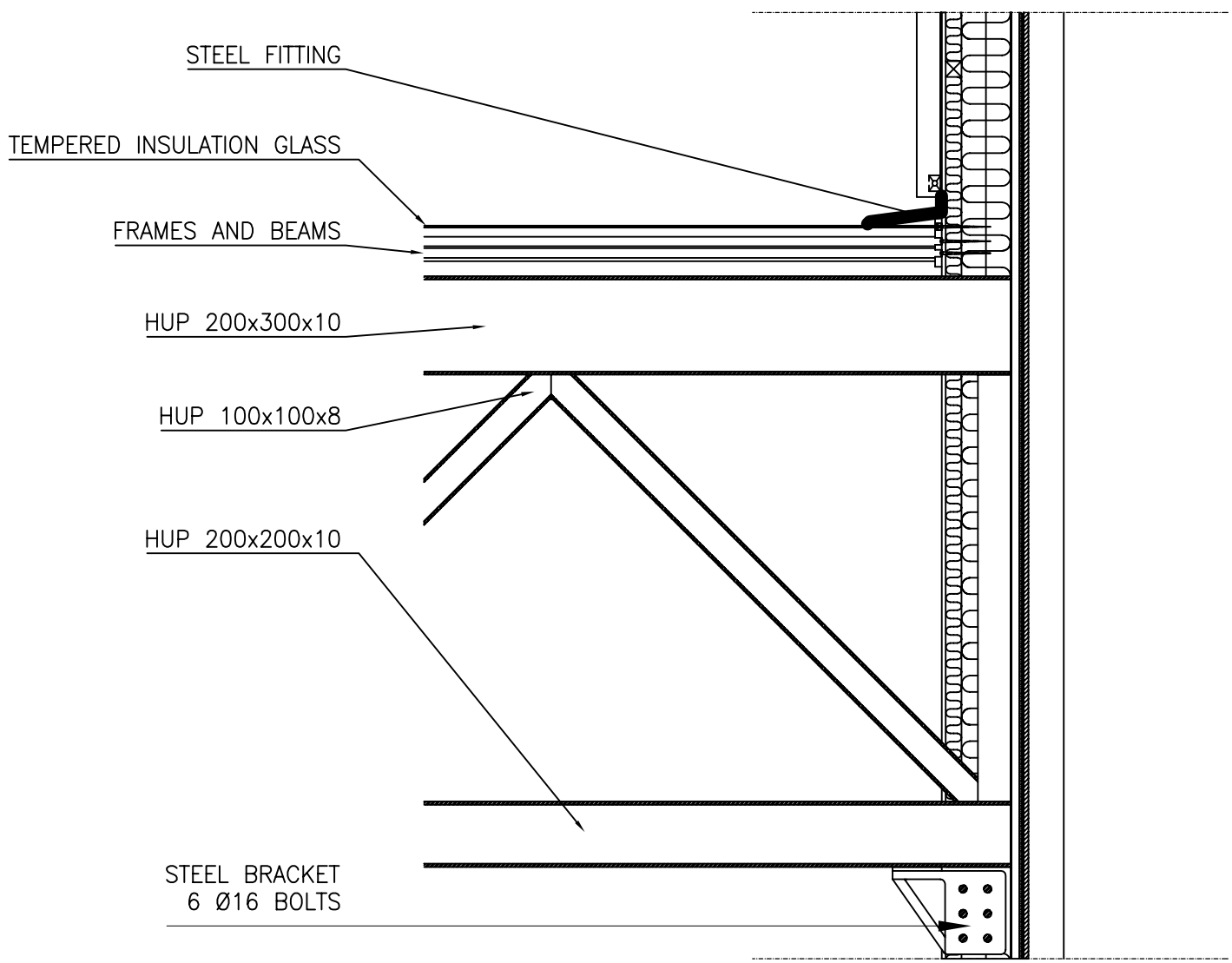
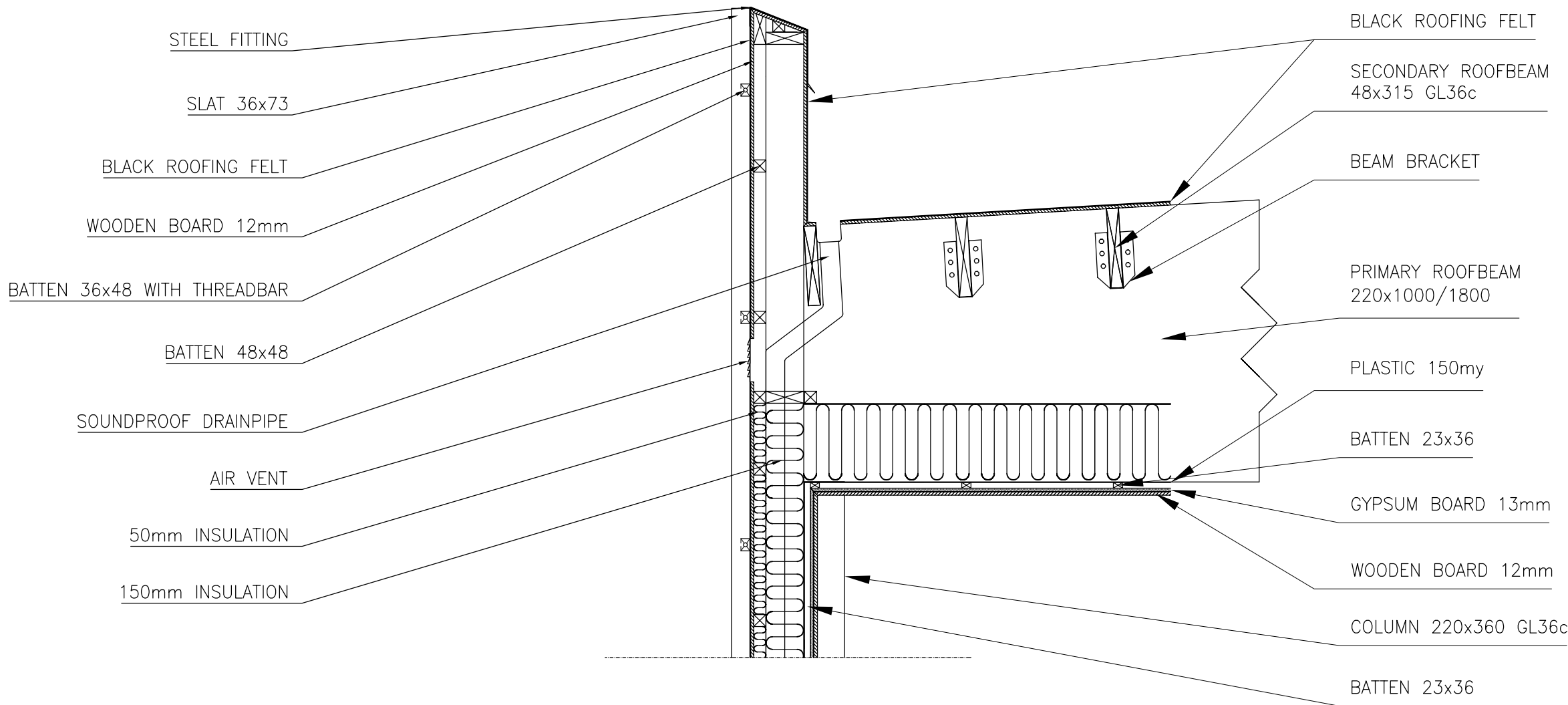


SECTION DETAIL ROOF CONSTRUCTION

Wall construction corner
This detail shows a horizontal section of the wall in a corner. The intention for this volume is to use as much wood as possible. Therefore we used a primary construction of glued laminated timber. To make the construction stabile for wind forces, we have chosen to use X-stays in steel. The inside cover is made of wooden boards, with gypsum boards underneath to secure the construction against fire. The facade is made of slats and prefabricated in elements. These elements might have to be fire protected. The wall thickness has to be as described, because of the needed thickness of insulation. Underneath the inside cover there is a gap for technical installations. This will help us not to spoil the qualities of the plastic.

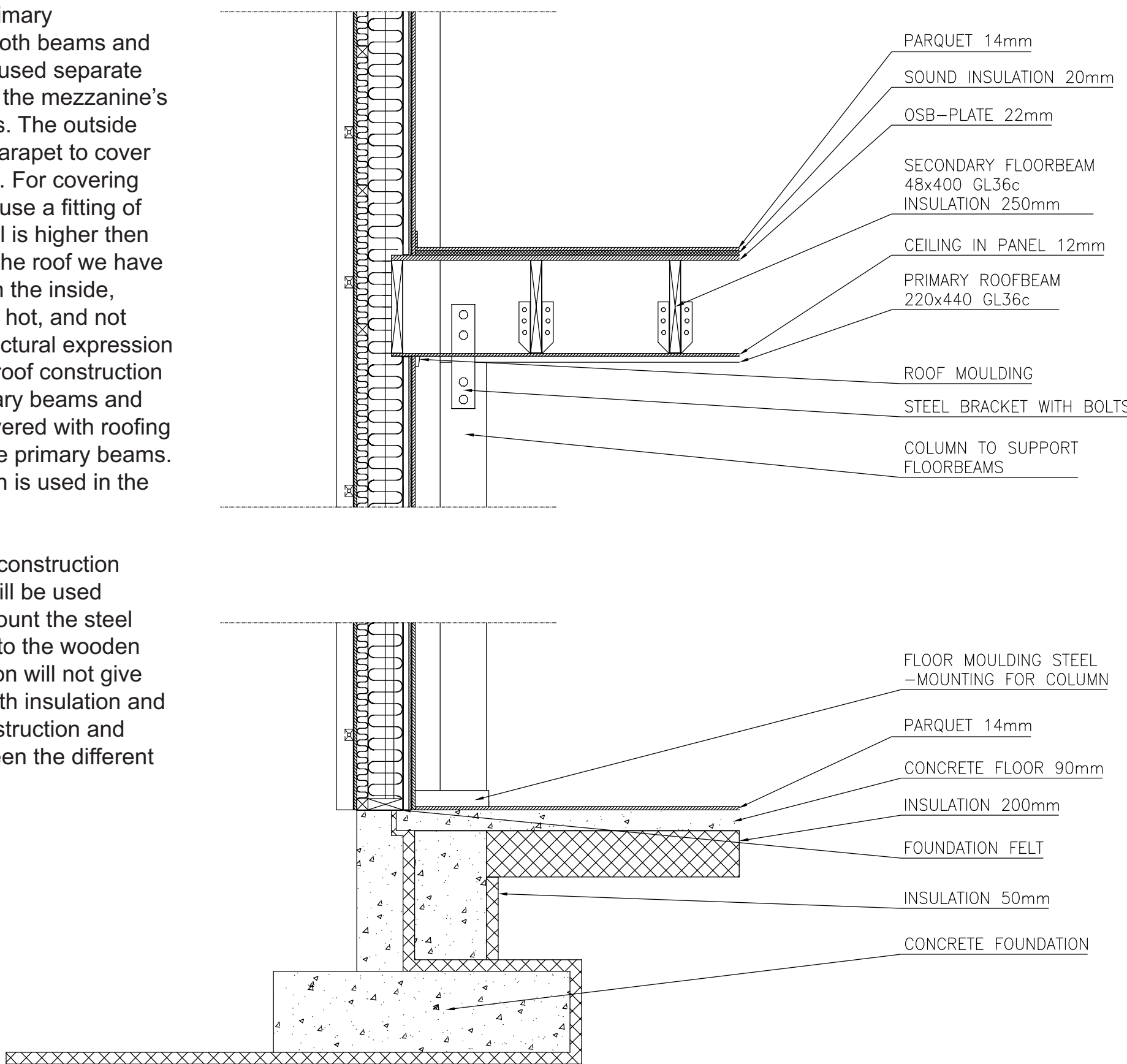


PLAN DETAIL WOODEN CONSTRUCTION



Wall construction vertical section:
Here we see the primary construction, with both beams and columns. We have used separate columns to support the mezzanine's primary floor beams. The outside wall is ended in a parapet to cover the sight to the roof. For covering the parapet we will use a fitting of steel. Since the wall is higher then the lowest point of the roof we have used a drainpipe on the inside, this is for keeping it hot, and not "disturb" the architectural expression of the facade. The roof construction consists of secondary beams and wooden boards covered with roofing felt in addition to the primary beams. 300mm of insulation is used in the roof.

To achieve as slim construction as possible there will be used steel brackets to mount the steel construction beam to the wooden volume. This solution will not give us any problems with insulation and humidity in the construction and the transition between the different constructions.



SECTION WALL WOODEN CONSTRUCTION 1:20