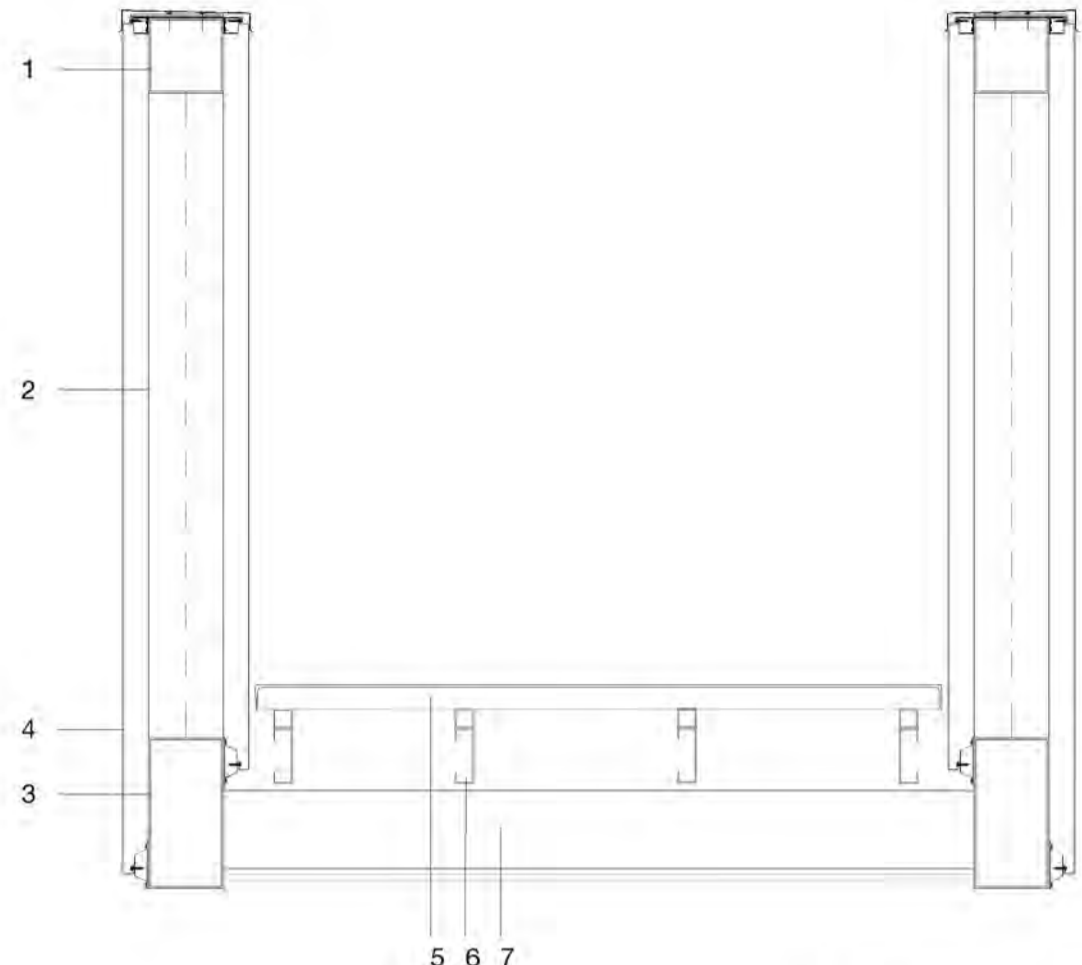


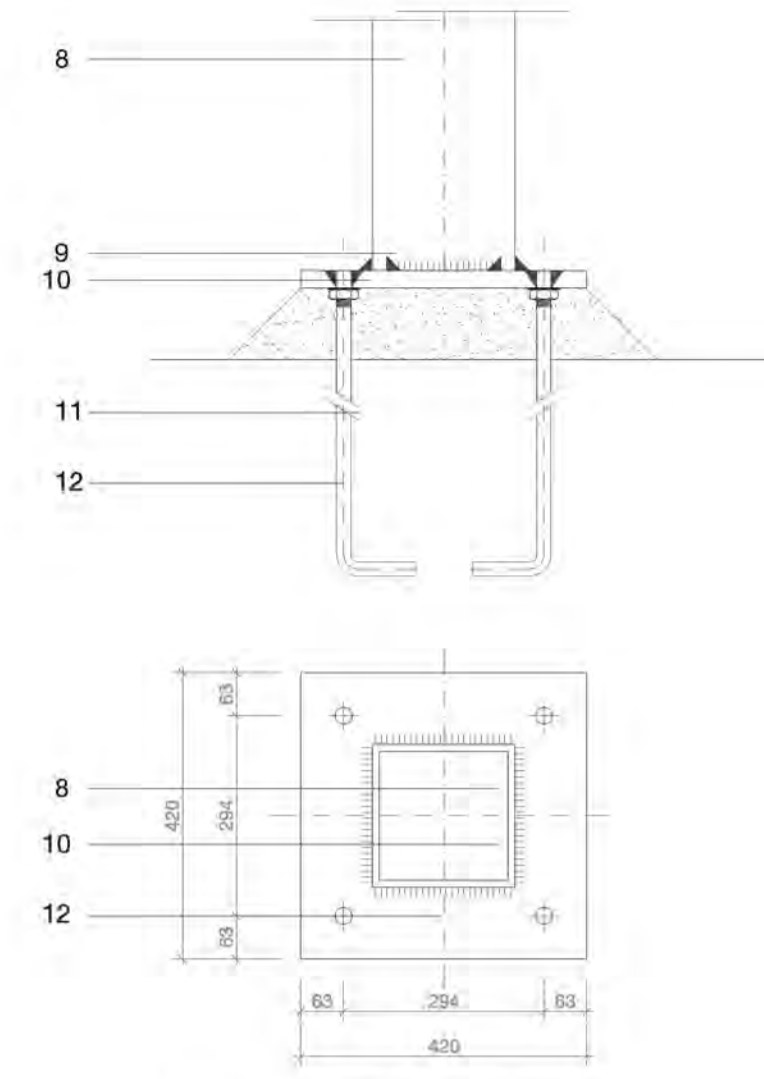
Walkway Structure

The structural concept aims to minimize the presence of new vertical supports. The proposed beam works as a whole and has a maximum span of 18 meters. Sheet metal is cladded in order to avoid visual interference with the existing roof.

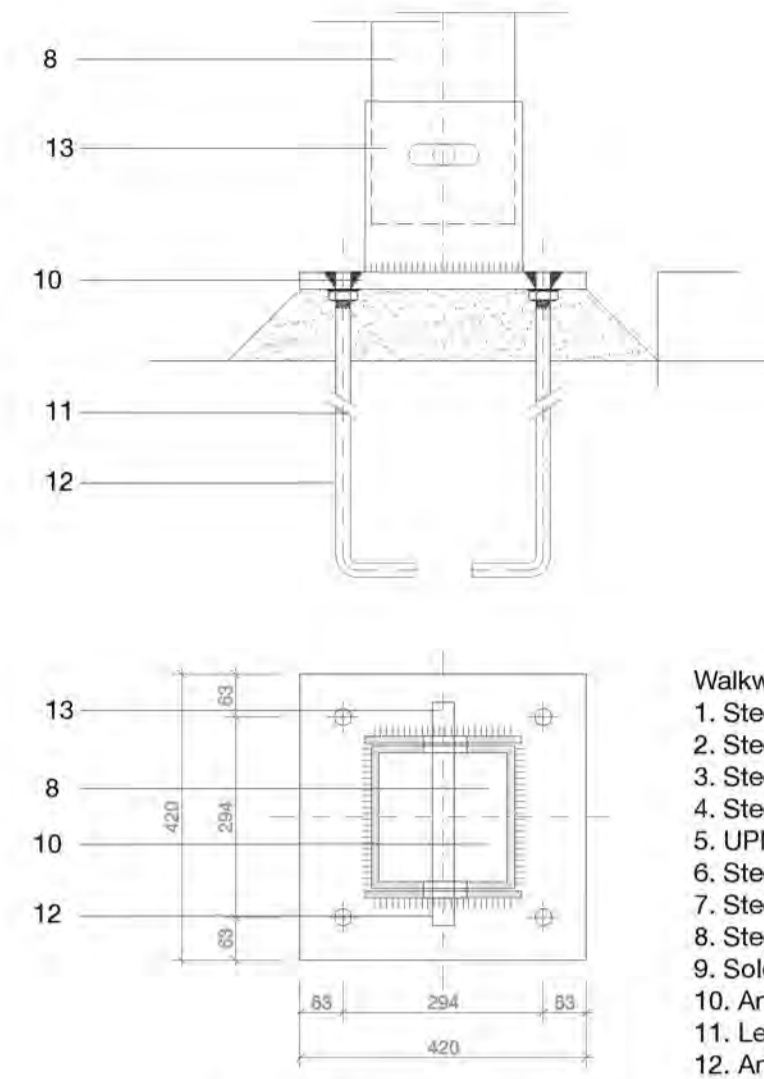
To avoid transferring bending moments and sheer stresses to the existing factory, articulated joints have been designed to transfer exclusively compressive stress to the existing limestone walls.



Walkway section. 1.10

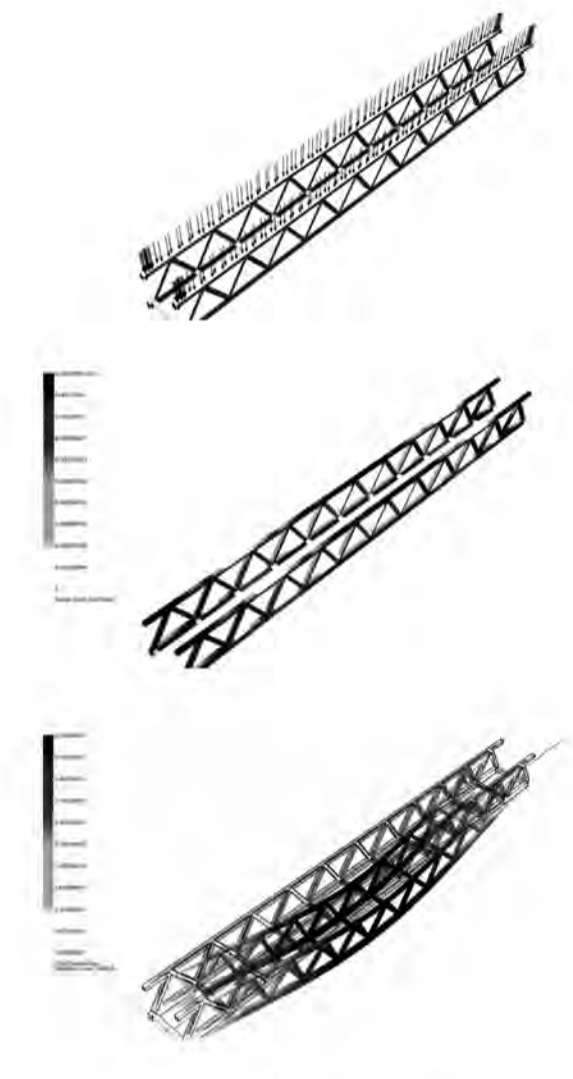


Detail 01. Anchoring plate. 1.10



Detail 02. Articulation. 1.10

- Walkway construction
1. Steel tube section 150x150x2mm
 2. Steel tube section 150x150x2mm
 3. Steel tube section 150x150x2mm
 4. Steel pannel. Galvanized. Painted white.
 5. UPN steel section profile. 30x150cm.
 6. Steel channel section. 7cm.
 7. Steel tube section 150x150x2mm
 8. Steel tube section 300x150x2mm
 9. Soldered. t=4mm.
 10. Anchoring plate 420x420x12mm.
 11. Leveling mortar.
 12. Anchoring studs. 4dia16. l=50+20cm.
 13. Round section steel stud dia32.



FEA longest span analysis



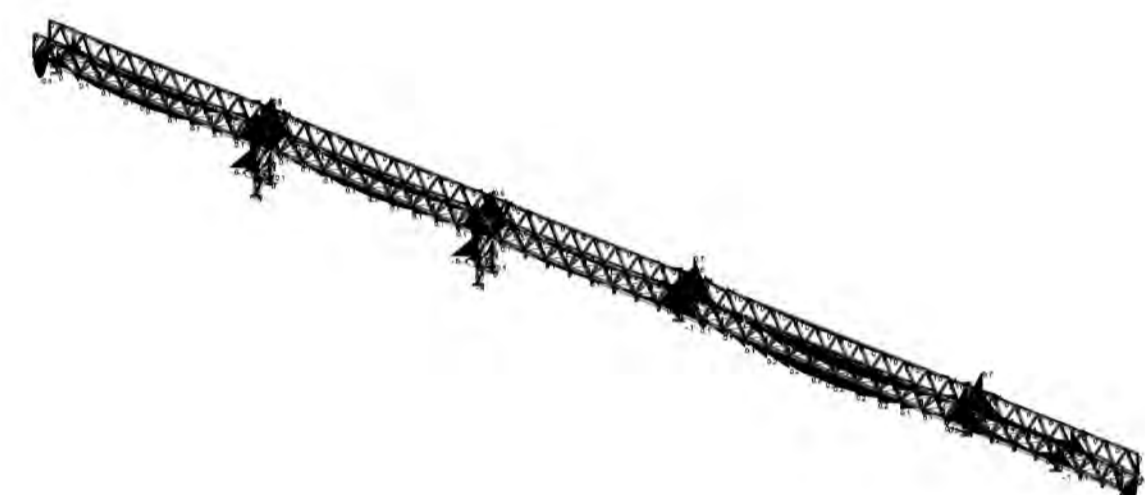
Loads



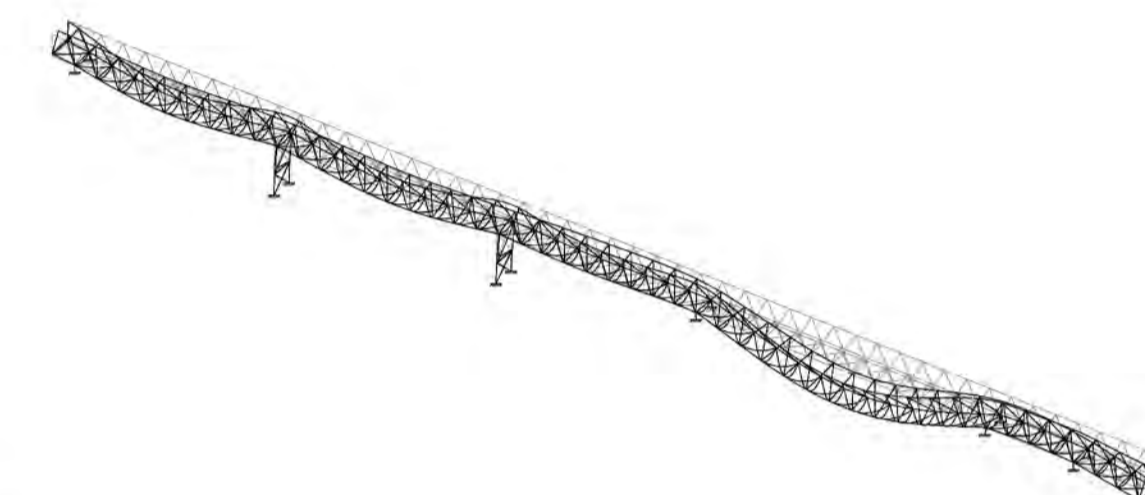
Reactions



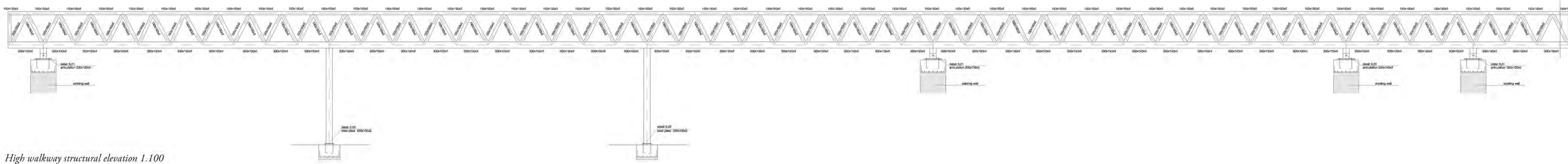
Axial forces



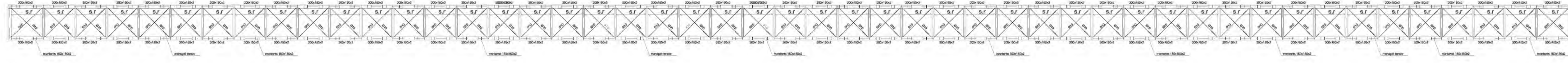
Bending moments



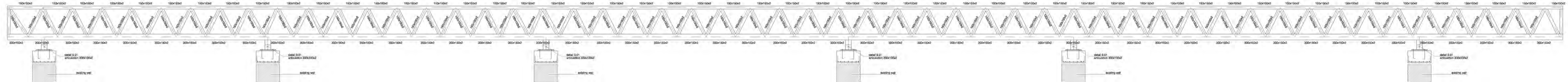
Deformation



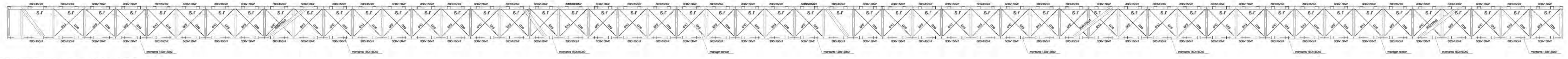
High walkway structural elevation 1.100



High walkway structural plan 1.100



High walkway structural elevation 1.100



High walkway structural plan 1.100