

Bureau International du Travail

Nations (GE)
2014



Architects

Groupe H - Architecture & Ingénierie SA

Representative

Consortium LMT-Implenia

Project completion

2015 – 2019

Surface area involved

25'000 m²

Scaffolding type

Lightweight 200 kg/m²

An emblematic building in Geneva due to its imposing size (44 m high and 200 m long) and rounded architecture, the ILO is perched like a mainsail in the hills of the United Nations neighborhood. Major renovations and restoration to present standards are currently underway, with the facades in particular needing restoration to improve the thermal performance of the building, while also maintaining its original appearance given its status as a listed monument.

In this regard, several complex and interdependent issues had to be solved: the colossal dimensions, placing the entire scaffolding on a load-bearing bracket, an anchoring system in listed facade shells or managing the continuous flows of equipment and people.

Our technical office carried out numerous calculations beforehand to determine the suitable scaffolding (lightweight with a 30 cm bracket) and the maximum frame that could be used at such a height. Our engineers also calculated the choice of carrier brackets (sizing) and their anchors. In addition, the anchoring solution was developed by our mechanical workshop where special parts were produced due to the site type.

For the transport of people, we opted for four fast lifts that could accommodate up to 14 people and selected six freight elevators for goods with a maximum capacity of 2,000 kg. Additionally, receiving platforms for the transit of goods were set up.