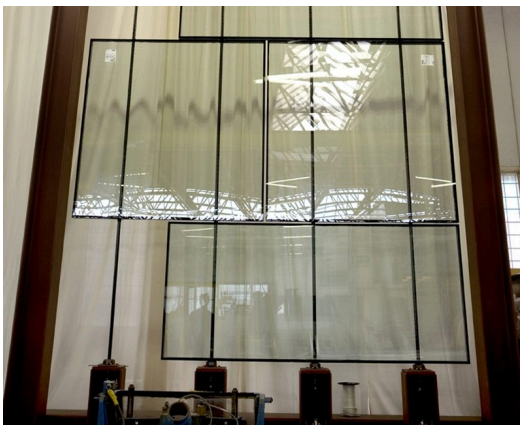
CABLES









Flat tensioned cable-net facade At 52 metres the cable-tensioned facade of the OZ Building in Tel Aviv (1995) is the highest frameless facade built by Octatube. Cables carry the dead weight vertically, while tensile trusses take the wind loading horizontally left and right. This is easily the most transparent facade system in the world. The next step in the development of this technique is the flat tensioned cable-net glazed facade. The underlying concept here involves tensioned cables running between the upper and lower structure. The glass is suspended from these by clamps. As well as the weight of the glass, the cables must also transfer the wind loading to the surrounding structure. This is made possible by the flexing of the cable. This flexing also gives rise to the structural depth required for the transfer of the wind loading. The same idea is exploited by tightrope walkers. The cables in the facade must be carefully pre-tensioned to prevent them deflecting too far in strong winds.

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