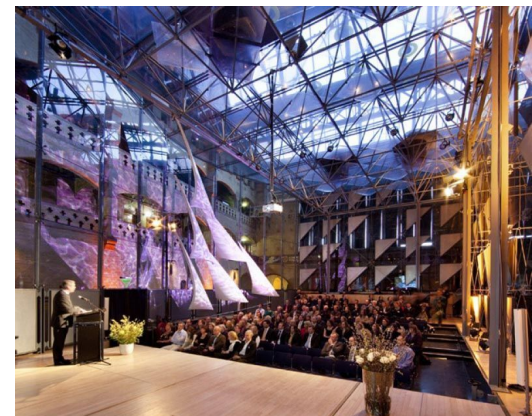


# BEURS VAN BERLAGE

Architect  
Client  
Location  
Year

PIETER ZAANEN / MICK EEKHOUT  
NEDPHO  
NETHERLANDS, AMSTERDAM  
1990

01081



This glass cube is the first large frameless glass construction in The Netherlands. Because it concerns a music hall, the acoustic demands were high. Firstly, the glass interior space has an acoustically isolated function in relation to the surrounding spaces. Secondly, acoustically absorbent panels, acrylic domes and polyester sails guarantee good indoor acoustics. The main construction of round columns and a spaceframe is stabilized by vertical tensile trusses.

The dead load of the vertical glass panels is lead to the upper panels with a bespoke welded 'frog finger'-shaped connection, the predecessor of the Quattro node. Because of the minimal thickness of 8 millimeters glass, a bolted connection was impossible due to the compressive and shear stresses. Instead, a pre-stressed bolted connection in a wide hole has been applied with a round disk and sandpaper for maximum friction. The upper panels are carrying the glass panels underneath, making a suspended facade.

**octatube**