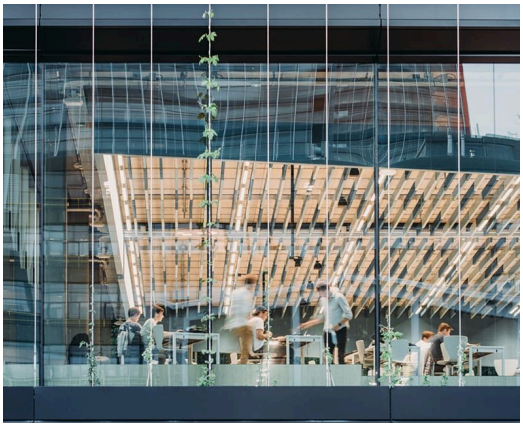
ECHO TU DELFT

Architect	UNSTUDIO
Client	TU DELFT
Location	DELFT
Year	2021









A unique energy-producing building appeared on the TU Delft Campus: Echo. Octatube designed and built the continuous glass façades. The design of UN Studio follows the principles of circularity as far as possible. The façades consist of large glass panels. Most of them are only top and bottom supported. The largest is approximately 2.6 by 5 meters and is more than 5 cm thick. One glass panel can weigh up to 1200 kg. The panels are coated for an optimal combination of desired transparency and necessary sun protection.

The glass is framed at the top and bottom in thermal aluminum U-profiles that Octatube designed for Echo. We also specially designed the rubbers for the high compressive forces and to accommodate the large deformations (up to 40 mm) of the floors. On the second floor, small and thin steel swords attached to floor and ceiling hold the large glass panels in place. This also benefits the transparency of the façade. In the west façade of the building we placed a double height glass. Sharp-edged steel tubes support this façade.

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