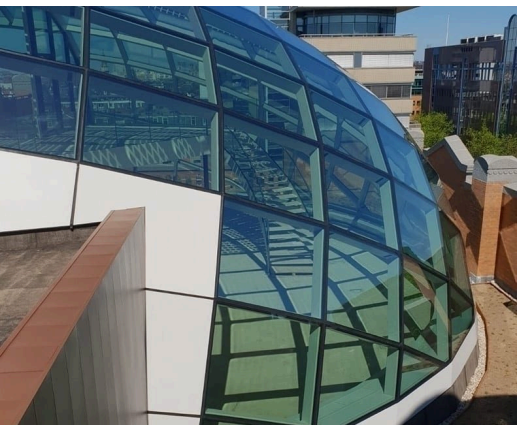
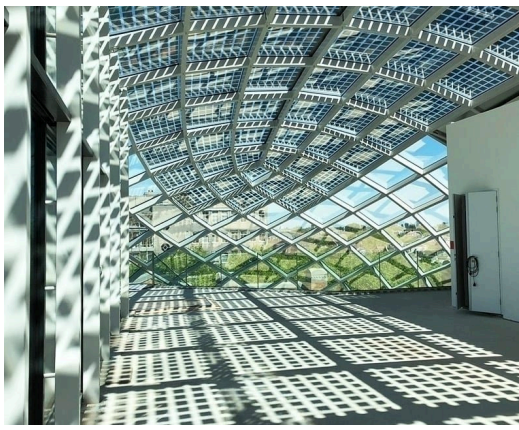
CAPITAL C (DE DIAMANTBEURS)

Architect	ZJA ZWARTS & JANSMA ARCHITECTEN
Client	ZADELHOFF B.V. EN SIJTHOFF MEDIA
Location	AMSTERDAM
Year	2019









The design for this project is very refined and innovative. The large dome, which is about 45x21x10 meters (lxwxh), consists of two floors and has a free form. Optimizing the shape in 3D and the parametric designing were particularly challenging. Because of the free form of the design, all the parts (steel beams, glass panels, etc.) differ and each time they come together in a different geometric way.

This led to the idea to automate the design by developing a parametric tool that could convert the complex basic geometry into a detailed production model. By designing the project parametrically, the construction proved to be not only technically feasible but cost effective as well. The glass roof structure refers to the history of the building as the centre of the international diamond trade. Like a cut diamond it shines in the light and makes the Diamond Exchange shine again.

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info@octatube.nl · +31 (0)15 789 0000

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