

PHOTOVOLTAIC SKYLIGHT NEW CONSTRUCTION

Novartis' 2,500 m² (26,900 SqFt) photovoltaic skylight was installed as a second skin at the new headquarters of the Novartis Pharmaceutical Company in New Jersey, USA. The project comprises 820 photovoltaic glass units, each measuring on average 1,511 x 1,931 mm (4.95 x 6.33 ft).

The PV glass was manufactured using perforated crystalline silicon solar cells, which allow natural light to enter the building. This skylight is designed to open and close for maintenance purposes.

The total system size is 295 kWp, and it produces about 273,000 kWh per year. This output is sufficient to power over 600 homes annually and helps prevent the emission of nearly 185 tons of CO₂ into the atmosphere.



TECHNICAL DATA

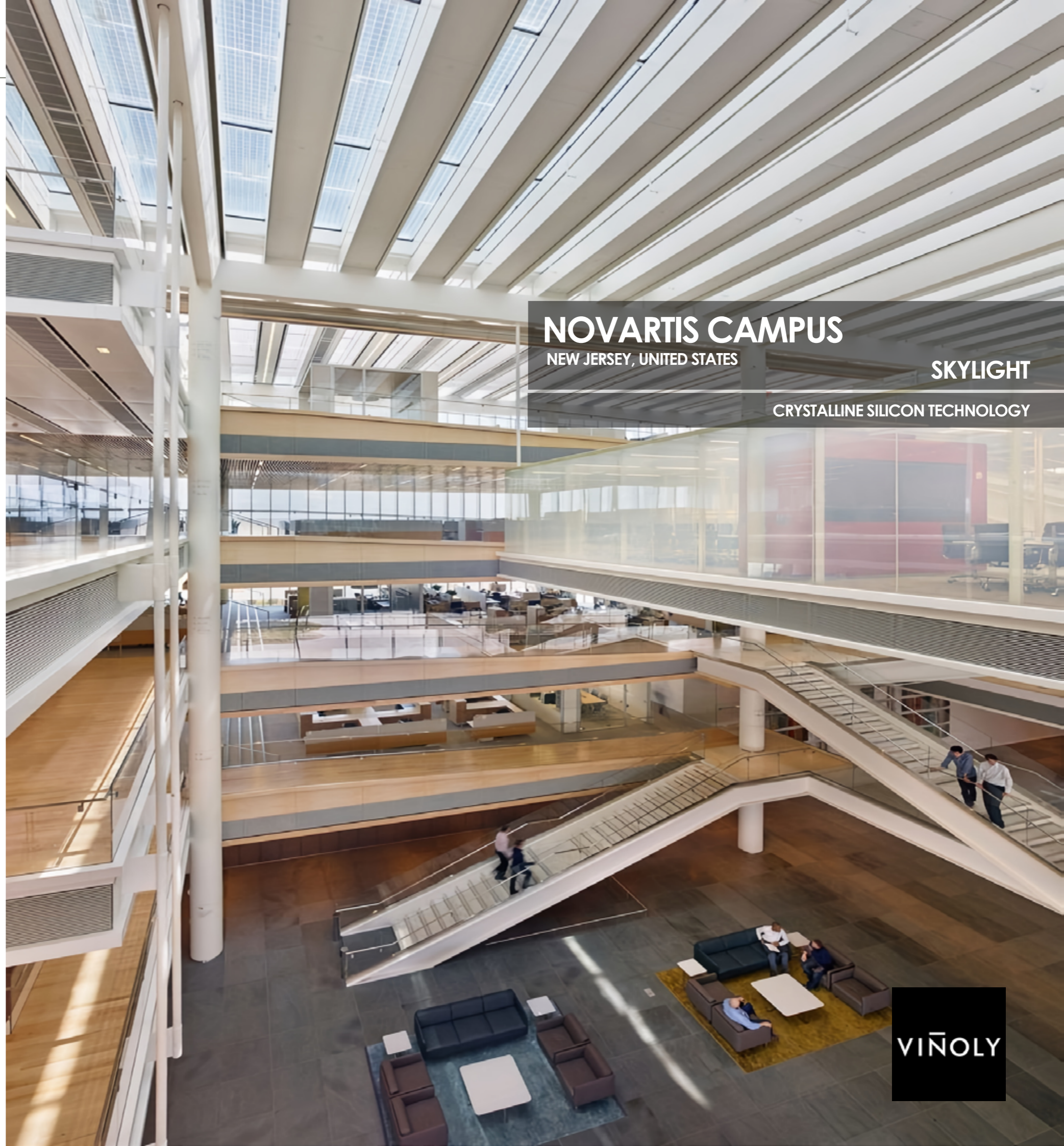
Nominal Power (Wp/m ²)	95 Wp/m ²
Visible Light Transmittance (VLT)	20%
Solar Factor (g-value)	34%
U value (W/m ² K)	N/A
U value (Btu/h ft ² °F)	N/A
Light Reflection (external)	8%



NOVARTIS CAMPUS
NEW JERSEY, UNITED STATES

SKYLIGHT

CRYSTALLINE SILICON TECHNOLOGY



VIÑOLY