



Modernité
By CarbonFutureX[®] Group



AN INTEGRATED LIVING SPACE SOLUTION

Luxury solar conservatory

Solar generation, vacuum glazing and tailored comfort.
Designed around your home.

A room for everyday living

A bright extension of your home, with glazing and comfort technologies selected for use across the seasons.



Morning coffee

Start the day with daylight and garden views.

Home office

Create a calm, light-filled place to work.

Family dining

Bring everyday meals and special occasions together.

Winter relaxation

Enjoy a sheltered view of the garden in colder months.

Summer retreat

Manage solar gain while retaining a connection outdoors.

Evening entertaining

Make space for conversation and relaxed evenings.

Six technologies working together

The glazing, frame and comfort options are designed as parts of one conservatory system.

01

Solar roof glazing

Transparent CdTe solar glazing generates electricity while helping to manage daylight and solar heat gain.

02

Vacuum façade glazing

Laminated vacuum glazing helps retain indoor heat within a slim glass construction.

03

Thermally broken framing

Aluminium profiles combine structural support with reduced heat transfer through the frame.

04

Smart ventilation

Natural and assisted ventilation strategies help release heat and refresh the indoor air.

05

Solar shading

Optional solar-control and shading solutions can reduce excess solar gain while preserving views.

06

Heating and comfort control

Optional heating, cooling and controls support comfort beyond the passive glazing performance.

Your final specification identifies the included systems and selected options.

Clear views with vacuum insulation

Laminated vacuum glazing pairs with thermally broken aluminium framing to support daylight, insulation and a refined architectural finish.

≈0.52

Centre-of-glass U-value U_g $W/m^2 \cdot K$

68%

Visible light transmittance



Estimated whole-window U-value

≈0.9 $W/m^2 \cdot K$

Solar heat gain coefficient g

0.41

Nominal thickness / weight

≈13.0 mm / ≈30 kg/m^2

Indicative sound insulation R_w

≈42 dB

Frame system

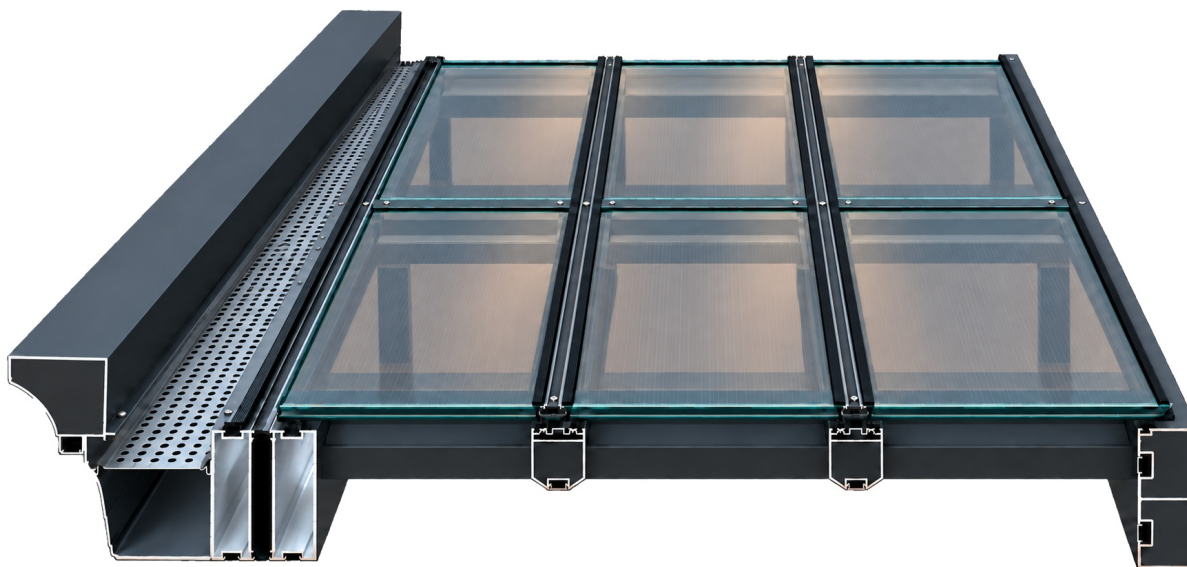
80 Series Thermal Break Aluminium

Glass build-up 4T + 0.76 PVB + 4TL + 0.2V + 4T

Published reference: 800 × 1600 mm window; 82% glazing / 18% frame. U_g is the centre-of-glass value. Whole-window and acoustic values are estimates; confirm the specification for your project.

Solar glazing that forms part of the architecture

Transparent CdTe photovoltaics, laminated vacuum glazing, aluminium profiles and integrated drainage in one roof system.



≈0.50

Glass U-value U_g ($\text{W/m}^2\cdot\text{K}$)

19%

Visible light transmittance

0.11

Solar heat gain coefficient g

Estimated whole-system U-value

≈1.0 $\text{W/m}^2\cdot\text{K}$

Reference panel size

800 × 1200 mm

Nominal thickness

≈16.9 mm

Nominal weight

≈39 kg/m^2 ; ≈37 kg/panel

Indicative sound insulation R_w

≈44 dB

Glass build-up

4T + 0.76 PVB + 3.2 CdTe + 0.76 PVB + 4TL + 0.2V + 4T

Published figures are representative. Confirm glazing, support details and system performance against the project specification. T / TL / V follow the website glass notation; layer dimensions are in mm.

Generate electricity from your roof

The published example combines a solar roof with reduced conservatory energy demand. Figures below are indicative annual estimates.

≈2,200

kWh/year solar generation

Solar generation

2,200 kWh



Conservatory demand

450 kWh



Annual net balance

1,750 kWh



20 panels

≈1.92 kWp

10° roof pitch

800 × 1200 mm each

19.2 m² at 1,000 W/m²

South-facing in Manchester

Reference irradiance

The example assumes approximately 450 kWh/year for heating, lighting, ventilation and controls. Its annual generation-minus-demand balance is approximately 1,750 kWh.

An annual surplus does not imply continuous self-sufficiency. Output and demand depend on location, shading, weather, occupancy, controls and specification. Financial value depends on self-consumption and the applicable import and export tariffs.

Two architectural expressions

Select the form that best suits your home, available space and preferred interior volume.



STANDARD CONFIGURATION

Lean-to

A contemporary single-slope roof with a simple connection to the existing building. A clean-lined choice for modern extensions and garden-facing rooms.

OPTIONAL CONFIGURATION

Gable-fronted

A traditional British form with a higher front elevation and greater internal volume. A distinctive pitched profile with a strong architectural presence.

Individually configured

The size, frame finish, glazing and comfort options are selected together to suit the property. Bespoke requirements can be discussed with the Modernité team.

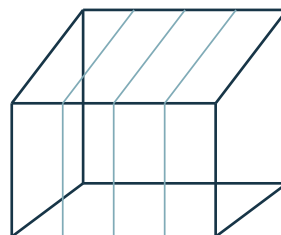
Dimensions at a glance

Standard options from the website. Floor areas below are calculated as width × projection.

Lean-to

Widths: 3.34 / 4.16 / 4.98 / 5.80 m

Projections: 3.00 / 4.00 / 5.00 / 6.00 m

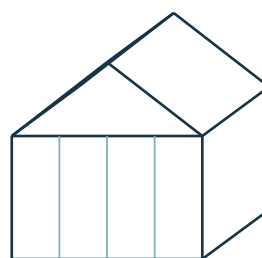


Projection (m)	3.34 m	4.16 m	4.98 m	5.80 m
3.00	10.02	12.48	14.94	17.40
4.00	13.36	16.64	19.92	23.20
5.00	16.70	20.80	24.90	29.00
6.00	20.04	24.96	29.88	34.80

Gable-fronted

Widths: 4.50 / 6.70 m

Projections: 3.34 / 4.16 / 4.98 / 5.80 m

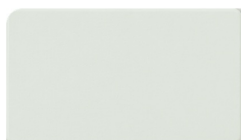


Projection (m)	Width 4.50 m	Width 6.70 m
3.34	15.03	22.38
4.16	18.72	27.87
4.98	22.41	33.37
5.80	26.10	38.86

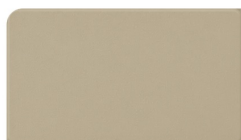
Areas are in m² and do not state usable internal floor space. Website illustrations show 2.60 m eaves and high-point heights of 3.10 m (lean-to) / 3.60 m (gable). Final heights and pitch depend on the chosen geometry and project design.

Finishes and comfort options

Coordinate the frame with your home, then choose the active comfort technologies that suit how you plan to use the space.



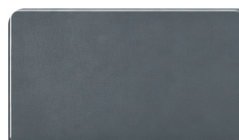
Iceberg White



Moonlight Gold



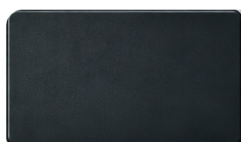
Milan Grey



London Grey



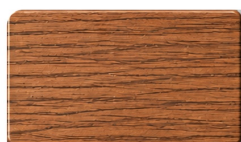
Senegal Black



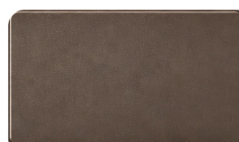
Prague Black



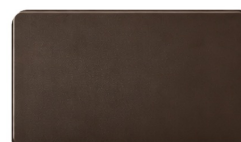
English Grey Oak



California Peach Wood



Brazilian Coffee



Turkish Coffee

Ten frame finishes

From Iceberg White and London Grey to wood effects and coffee tones. Confirm your preferred finish using a physical sample; printed and screen colours are indicative.



Electric Underfloor Heating

Provides comfortable radiant floor heating with rapid response and even heat distribution.



Smart Floor-Console Air Conditioning

Provides quiet, intelligent heating and cooling through a discreet floor console with concealed underground pipework.

Optional active comfort

Electric underfloor heating or floor-console air conditioning can be specified to complement the glazing. Equipment and controls are confirmed for each project.

Extending into the garden

A garden-facing lean-to configuration beside a brick home, with an established terrace and lawn.



PROJECT VISUALISATION

Connected to the outdoors

Glazed elevations keep the garden in view, while the single-slope roof connects the new room to the existing house. The layout brings indoor living, the terrace and the lawn into one setting.

Single-slope roof

Glazed elevations

Garden connection

Making more of a narrow plot

A slim garden extension with a glazed roof and a covered outdoor dining area, arranged alongside the existing building.



PROJECT VISUALISATION

Living space and a sheltered terrace

A linear arrangement responds to the available width of the plot. The enclosed conservatory leads towards a covered seating area, showing how indoor and outdoor spaces can be planned together.

Compact footprint

Glazed roof

Covered terrace

The details in practice

Photographs from the pilot project gallery show the glazing, roof grid and connection to the surrounding space.



Interior living space



Façade and frame detail

Start with your space

Share a few project details so the team can discuss a suitable configuration and prepare a project-specific proposal.

1

Your home

Project postcode, photographs of the existing building and the proposed conservatory position.

2

Your dimensions

Available width and projection, access constraints, and your preferred lean-to or gable-fronted style.

3

Your priorities

How you will use the room, orientation, shading, glazing preferences and the frame finish you like.

4

Your comfort options

Heating, cooling and ventilation preferences, together with any planned electrical or energy-system integration.

Technical information and installation

Wind resistance on the website is indicative, up to 5,400 Pa. The façade reference is 800 × 1600 mm with four-edge support and a 10 mm frame bite; the roof reference is 800 × 1200 mm. The final design must confirm the actual glazing, supports and site loads.

Request the current product data, project drawings, installation manual and warranty terms with your proposal. Renderings in this brochure illustrate appearance; final construction follows the agreed specification.



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By CarbonFutureX[®] Group



Create your solar living space

Discuss your home, your priorities and the possibilities
with the Modernité team.

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EXPLORE ONLINE

ACCREDITATION



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