

Product Portfolio Panelised Glazing

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Product Portfolio Panelised Glazing Overview

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A unique aluminium-framed glazing system that can reduce site installation time by as much as 70%, due to its ease of fixing. Only two screws are required for each panel (except the first which requires just four). Panels are sized and constructed specifically for each project so there is no cutting or fabrication on site. The system is available on either a supply only or supply and fix basis.

Xtralite Panelised Glazing is:

- Lightweight
- Impact resistant
- Fully factory-assembled
- Thermally efficient
- Non-fragile
- Easy to handle
- 20-year insurance protected
- Available with a comprehensive product guarantee

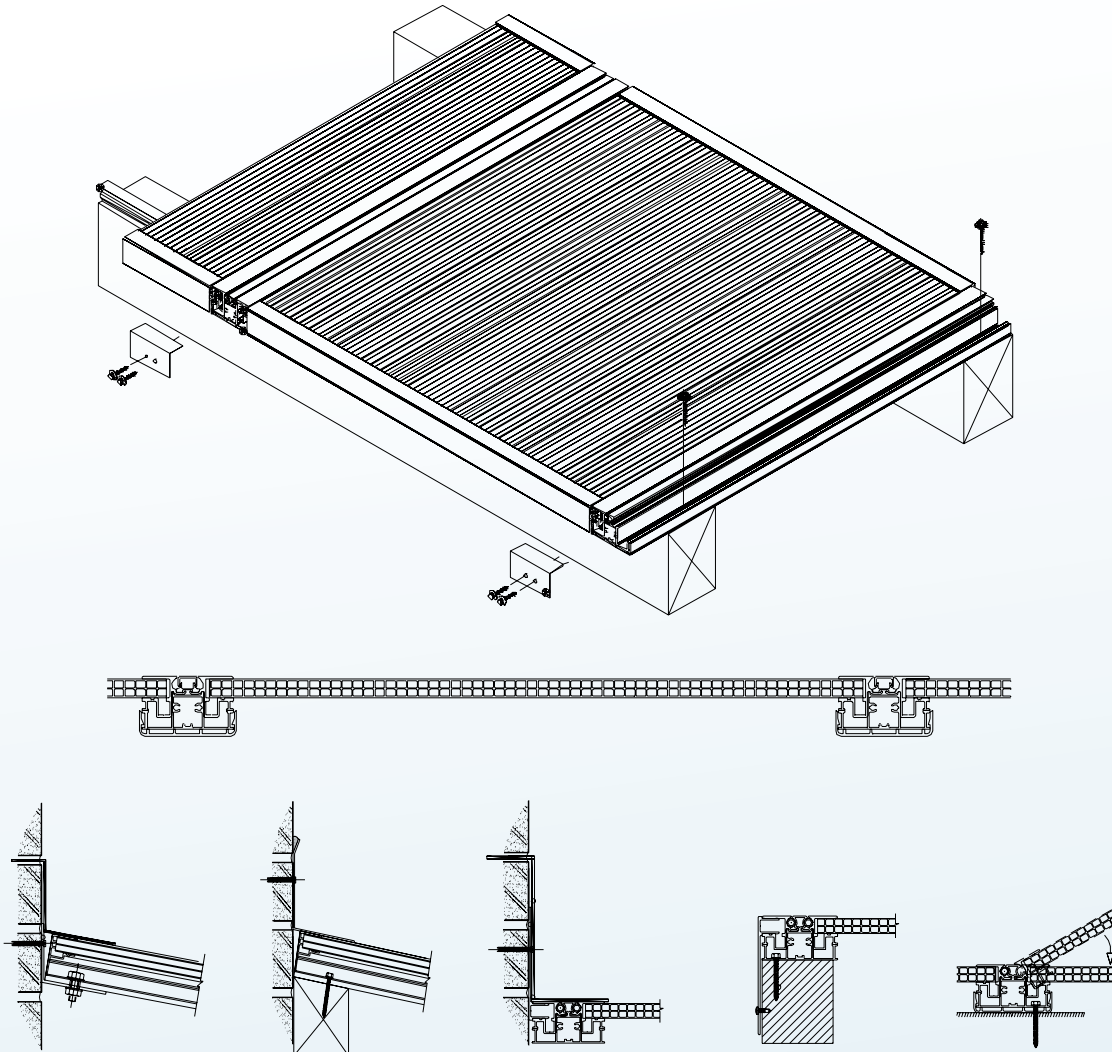
Xtralite Panelised Glazing is suitable for roofing and walling installations, ranging from 10° pitch to vertical. The system is perfect for northlights, patent glazing replacement, monopitch rooflights and vertical glazing. The versatility of the system means it can be used on ridges or abutting wall panels and gutters. This allows the designer the flexibility to introduce natural light into the building across most areas of the roof or other structures. Xtralite Panelised Glazing is ideal for both new build and refurbishment in numerous applications including factories, schools, leisure centres, logistics facilities and other open-plan buildings. The system is now also available with the latest advanced glazing technology Nanogel® sheet—offering impressive energy saving and lighting characteristics (see the earlier section **Designing with Daylight – Properties of Glazing Materials and Configurations**).



Product Portfolio Panelised Glazing Linked Modular System

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Specification



Description	Interlocking, aluminium-framed polycarbonate.
Size	Width—1.0 m as standard. Length—up to 5.0 m (longer by arrangement).
Glazing	Multi-wall, UV-protected, structured polycarbonate sheet (clear as standard—opal, bronze and grey as an option).
Structure	Integral aluminium side profiles, main bar and secondary link bars. Both main and secondary profiles are complete with water management systems and are designed to work in a 'seal-less' format.
Thermal cloak	High quality extruded PVC-U undercladding profile clips to main profile enhancing the thermal properties of the assembly to reduce the possibility of condensation problems.
Finish	Polyester powder coated to BS 6496.
Colour	Standard white RAL 9910 Matt (other colours available).
Performance	Light transmission: clear 82%. U value: 2.3 W/m ² K (16 mm triplewall). Fire: BS 476 Part 7—class 1. Building Regulations (1991). Class O—Tp (a). Aluminium: BS 1474.
Fixings	High quality stainless steel.

Product Portfolio Panelised Glazing Vertical Panels with Nanogel® Technology

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The unique, aluminium framed Panelised Glazing system described previously is also a particularly effective light transmitting wall solution when used in conjunction with Nanogel® technology. The clear polycarbonate structured multi-wall panels—available in a choice of thicknesses—are filled with Nanogel® translucent aerogel granules. They give excellent light transmission and diffusion for a 'shadow-less' light quality, ideal for sports facilities for example, as well as improved sound reduction.

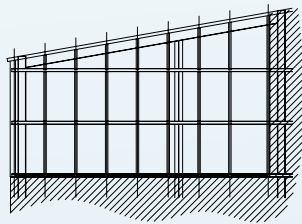
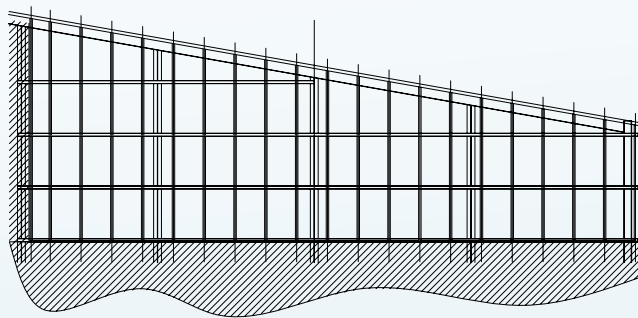
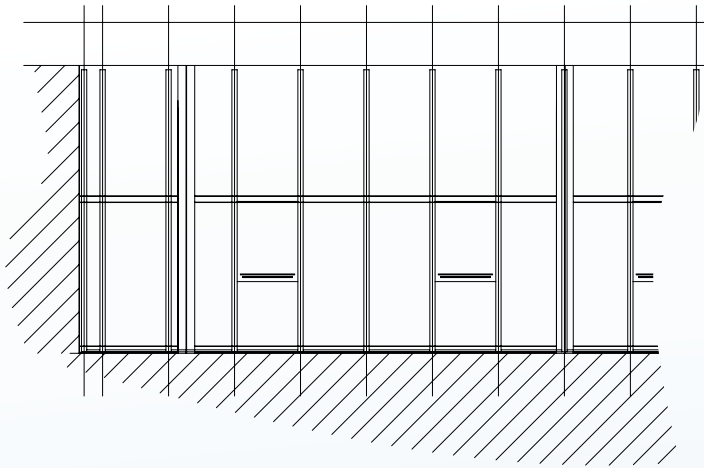
However, it is the substantial improvement in insulation performance that is most impressive with Nanogel®, due to the limited heat conduction of the granules. With U values as low as 0.91 W/m²K, substantial proportions of Nanogel® Panelised Glazing can be used for light transmitting walls within the constraints of Part L, unattainable with many other glazing systems. It is also worth remembering that the Panelised Glazing system is fabricated in the factory to suit each individual project, in line with the Modern Methods of Construction (MMC) ethos, with minimal site work. In addition to ensuring accuracy and consistent performance, this feature saves time—particularly as Xtralite products are not imported.



Product Portfolio Panelised Glazing Vertical Panels with Nanogel[®] Technology

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Specification



Panelised Glazing systems are designed and manufactured by Xtralite in the UK specifically for each project. A choice of panel thickness is offered with maximum panel widths of 1.0 m (16 mm thick) and 1.2 m (25 mm thick), and length of 5 m. The factory assembled aluminium frames are available in mill finish or polyester powder coated in the specifier's choice of colour and require minimal on-site fixing.

Maximum spans	Up to 2.5 m (self supporting).
Length	Up to 5.0 m.
Loading	Designed in accordance with CP3 Chapter V Part 2:1972 BS 6399:Part 1 and Part 3 1984 max. 1.5 kPa wind and 0.75 kPa imposed.
Safety	ACR[M]001:2005 Class B option available.
Glazing options	16 mm and 25 mm structured multi-wall polycarbonate.
Thermal performance	Part L: below 2.0 W/m ² K options available.
Fire regs	BS 476 Part 7: class 1(1991) Class '0' Tp(a).
Surface finish	Mill finish and polyester powder.