



Technical Data Sheet

Naturalight FastLock Technical

System Reference

Fastlock System NLS 285

Description:

Modular, interlocking polycarbonate glazed units framed with polyester powder coated aluminium and secret fixed to structure.

Size:

Standard modular plank widths are 1020mm approx from center of each rafter plank horizontally.

Smaller widths are available (please consult sales prior to ordering), however, a surcharge will apply.

Unit lengths are customer specified up to a maximum of 6000mm.

Glazing:

16mm *Triplewall and 25mm multiwall polycarbonate with UV protected outer surface in either clear, opal or bronze tints.

Frame:

Each unit comprises of, interlocking extruded aluminium male/female rafter profiles and top/bottom extruded aluminium edge profiles. Both male and female rafter sections have integral water management channels and are designed to be utilised without the need for gasket seals.

Design spans:

When interlocked, the maximum span achieved between intermediate supports is 2500mm on 16mm fastlock and 3000mm on 25mm fastlock.

This data is accurate for most UK areas, however, we recommend that you consult our technical department for assistance should extreme conditions apply.

Finish:

Polyester powder coated to BS 6496 (all standard RAL colours are available; please check for availability before ordering).

Performance:

Light transmission:

Clear - 82%*

Opal - 60%*

Bronze - 45%*

U Value:

2.4 W/m²K*

Fire:

BS 476 Part 7 - Class1

Building Regulations (1991) - Class 'O' - Tp(a)

Extruded aluminium: BS1474

Fixings:

Only high quality stainless steel fixings should be used for installation of the units, with careful consideration for the support structure and strength of the fixings, to reduce the risk of electrolytic reaction between dissimilar metals. Care should be taken to ensure that the fixings are compatible with the aluminium of the Fastlock bars and the support structure.

Protective packaging:

Each unit will be dispatched with a protective wrapping in addition to the surface protection already applied to the glazing. The protective wrapping should be removed either before or directly after site installation.

Storage:

Each Fastlock unit should be stored in a clean, dry and dust free environment away from potential risk of damage. The units should be stacked against a suitable permanent flat structure positioned on their sides. The units should not be laid flat or positioned in a location susceptible to direct sunlight. If stored outside, protect the units with a suitable non-light transmitting substance.

The Fastlock glazing system has a unique interlocking unitised design, which out performs virtually all other traditional roof glazing systems.

Advantages over traditional systems include:

- Made to measure units
- Rapid Installation
- Health and Safety Friendly (manual handling)
- Rapid Delivery From Order
- Thermally Efficient Design
- Impact Resistance
- Factory Sealed Units
- Versatility For Varied Roof/Canopy/Walkway Projects
- Almost anyone can install
- Environmentally Friendly (all components are recyclable)

Each modular unit is designed to suit specific project size requirements. Therefore, no site modification is required.

Because each unit requires a minimum of two fixings (four at end units only), the time and cost savings for the installation allows funds to be utilised elsewhere on the project or to maximise the natural light requirement of the building/structure.

Each unit requires no more than a hand drill (check voltage requirements for power tools if used on a construction site) or screwdriver for installation.

FastLock glazing bars are designed to the following design criteria.

BS 5516 1991 Design and Installation of Patent Glazing.

BS 8118 pt 1 1991 Structural use of aluminium.

BS 6399 pt 2 1997 Wind loads.

BS5368 pt 1-4 1994 Method of Testing windows.

BS 6375 pt 1 1989 Performance of Windows, Classification for Weather tightness.

BS5950 pt 1 2000 : Structural use of steelwork on buildings.

BS 6399 pt 3 1988 Imposed roof loadings.

FastLock can be used as a replacement for old patent glazing as well as offering an alternative to new canopies or walkways.

Fastlock has an integral support structure and its simplified design de-skills the installation process.

The system is designed with primary and secondary glazing bars which lock together to become one profile.

On projects incorporating FastLock, we can offer full site support.

Unique interlocking aluminium glazing bars. Available in a selection of polyester powder coated RAL colours.

A choice of glazing tints in either clear, opal or bronze and available in 16mm triplewall or 25mm multiwall polycarbonate.

Easy to handle, transport and store, Clean crisp aesthetically pleasing appearance.

Full site support available.

Additional flashing available.

Suitable for vertical applications.

Manufactured in maximum 1020 mm panels

complies with part L Building Regulations.

Polycarbonate (Structured Sheets)

16mm triplewall uv protected polycarbonate***

25mm multiwall uv protected polycarbonate

U' values:

16mm 2.4W/m²K

25mm 1.7W/m²K

Light Transmissions:

Clear 75%*** Opal 51%***

Bronze 49%***

Acoustics 21db***

Serviceable temperature

120 deg C***

Fire BS 476 pt 7 Class 1 ***

Weight*** 2.7kg

Polyester Powder Coating.

All kerbs and glazing bars are supplied in a white matt finish to BS 6496. Ot also her RAL colours are available upon request.

