Technical information

PURe® tilt/turn window system
Scope

The PURe® tilt and turn window has been designed to meet current and future building regulation, with impressive U values and thermal performances. PURe® is an evolved generation of aluminium window systems manufactured in the UK. It combines the long life and low maintenance of aluminium externally with a patented high insulation PUR foam thermal barrier. PURe® tilt and turn windows are capable of accepting glazing up to 50mm thick depending on weight.

Materials

- All aluminium sections are extruded using Aluminium Alloy 6060 or 6063 T6 to BS EN 755 part 9 2008 or BS EN 12020-2.
- Polyamide thermal barriers are manufactured in accordance with PA66 GF25.
- Gaskets are manufactured in accordance with BS3734.

Finishes

PURe® tilt and turn window sections are available typically in two finishes.
- Polyester Powder Coating to BS EN 12206-1: 2004 Part 1 – painted in house. Surface finish at 40 microns standard, or enhanced to 60 microns for marine environments, in accordance with ISO 9001, ISO 14001 and ISO 18001.
- Anodised finishes are to BS3897:1991 to a minimum of 25 microns (AA25), supplied in either satin or polished finish in a limited range of colours.

Construction

PURe® is constructed using mitred corners, joined with crimped or mechanical cleats; alignment chevrons assist in clean, accurate mitres. Integral transoms and mullions are scribed around the outer frames and fixed with either screw ports or shear blocks.

A proprietary sealant is used on all metal joints in line with good practice. Opening window frames are designed to be inserted directly into the outer frames using butt hinges or tilt/turn mechanism.