Vista Glaze Aluminium Roof System

Technical Specification

Scope

This specification defines the basic construction, materials and performance of the Vista Glaze aluminium glazing roof system.

Design Concept

The profiles in this range have been designed solely for roof glazing. This system can cope with varying degrees of roof pitch, from 3 to 45, and provides a complete thermally broken structure when complete. The British Board of Agreement tested the roof system and have indicated that the roof will have a life expectancy of at least 25 years.

Materials

Framework consists of a high tensile aluminium section (Alloy 6063 T6 BS 1474:1987) box section 40mm wide by 68mm, 81mm and 97mm in depth, giving the options of profiles to suit larger spans. The thermal break comes in the form of a PVCu extension adaptor connected to the main rafter box section. This section is designed to receive an aluminium exterior cover cap.

Aluminium exterior cover caps can be powder coated to any Ral colour, providing a durable and attractive roof finish. Please note, it is possible to have an inner framework finished in a different Ral colour to that which is outside. All Vista Glaze roofs are produced in line with BS EN ISO 9001:2000 quality control conditions and are BBA approved to market leading standards.

Finishes

All aluminium is polyester powder coated with 80-100 microns of paint to BS 6496. Full Ral colour range is available. Anodising is to BS 3987 and finishing is conducted under BS EN 9002:1994 quality control standards.

Construction

Construction consists of main sloping rafters, fixed to the ridge via load bearing brackets tested by Queens University, Belfast (20Kn). Rafters are carried directly by an adjustable ringbeam. Standard hip and valley sections are connected in the same manor. All roofs are pre-assembled in the factory before delivery. All joints shall be sealed against water entry as per our installation manual. Glazing is secured by a snap on exterior cover cap and pressure plate, providing a continuous pressure seal against the glazing.
(Uplift tested to 1320 pascals of pressure)

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Let the light in

Technical Specification continued

Performance

Our roofs have been engineered to comply with severe weather ratings. (Wind loads 1.32Kn/m2 and snow loads 1.0Kn/m2). The structure when finished using standard planitherm double glazing units will have a thermal U value of approximately 1.3W/m2k. BBA test results indicate that the U value for our roof rafter is 1.5 W/m2k. Secondary drainage channels have been designed into the PVCu thermal break. This allows drainage channels to run over the bottom ringbeam, providing a unique, but effective way of draining the roof system. (Water test pressure 300 pascals).

Glazing

All double glazing is Kite marked, toughened glass, which is 5 times stronger than ordinary glass (BS 6206:1981 with a Class 0 fire rating). All our glazing has continuous spacer bars and a dual sealed (BS 5713). Double glazing or triple glazed units rest on a co-extruded EPDM gasket and are held in position by a pressure pale and an aluminium exterior cover cap. Units should be installed in accordance with BS 6262:1982, BS 8000, Part 7:1990, the GGF glazing manual or European equivalent.