Q1 2019

ENHANCED TIMBER
COMPOSITE COMPONENTS

# QWOOD – BEAD INNOVATION

## Product Description

Qwood profiles are rigid timber composite extrusions of PVC blended with wood fibres. The wood used is derived from enduring forestry of new spruce and beech wood fibres which are sourced from sustainable PEFC and FSC certified forest stands. Qwood profiles reflect the natural appearance and feel of wood whilst still retaining the beneficial properties of PVC.

## Appearance & finish

- Wood like appearance, without knots
- Highly smooth surface finish which can painted
- Usually supplied in a natural finish

## Applications & use

Qwood profiles can be used for interior or exterior applications where weathering and durability is required or as an alternative solution to straight lengths of timber (with minimal waste) e.g.

- Profiles for the timber window industry (window beads, sills etc.)
- Profiles for the timber and composite industry
- Building industry (cladding etc.)
- Trims (furniture etc.)

## Physical properties & benefits

- Cut and trimmed with standard wood working tools
- Fixed with nails, screws and/or adhesives
- Excellent moisture absorption resistance
- Minimal expansion/ contraction (compared to timber)
- Does not rot
- Flame retardant
- Consistently straight
- No sanding or pre-paint preparation required

## Casement Beads

## Sliding Sash Beads

## Door Beads

PRODUCT DATA SHEET –Qwood® (Quantum Profile Systems Ltd.)

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## Sustainability

The mark of responsible forestry

FSC® C121902

PEFC/16-37-1794

Promoting Sustainable Forest Management

www.pefc.co.uk

## Test Result (water absorption)

Qwood profile and untreated pine wood exposed to immersion in water for 28 days at 23°C in a test

Based on EN317. Test results are expressed as a percentage change in thickness and mass.

| | PINE WOOD | QWOOD |
|---|---|---|
| **Increase in thickness (%)** | 1.6 | 0.6 |
| **Increase in mass (%)** | 68.3 | 15.3 |

## Test Result (thermal results)

| TEST | METHOD | RESULTS |
|---|---|---|
| **Manufacturing process heat reversion** | Samples are scribed at 200mm and heated to 100°C for 1 hour (MOAT No 17 : 1990 4.35) | Reversion no greater than 3% |
| **Thermal resistance (R value)** | Heat flow meter method of ISO 8301:1991 & BS EN 12667:2001 using approved testing laboratory | 0.491 $m^2K/W$. Measured thermal conductivity 0.099 W/mK (K value) |

Heat reversion test samples

Qwood products in sample window

## Other Information

The data given above are typical test results from laboratory tests. They do not form the whole or part of a specification. Since the conditions under which our products may be used are beyond our control, recommendations are made without a guarantee and customers should ensure that materials supplied are satisfactory for their requirements

Exposure to extreme, localised temperature in excess of 60 degrees for a prolonged duration will affect the stability of the product, although this expansion / contraction should be minimal. Any expansion / contraction is significantly reduced when the product is pinned, clipped or adhered to the window. Radiant heat absorption can be exacerbated with dark coloured paints. See fitting guides for detailed recommendations for dark colours.

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