

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, always straight
- » Highly smooth surface finish which can be 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

Caseмент Beads



Sliding Sash



Door Beads



All photo courtesy of ERW Ltd

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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	0.491m ² K/W. Measured thermal conductivity 0.099 W/mK (K value)

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. It is recommended to use a white primer coat beneath dark colour top coats to reduce heat absorption. See fitting guides for detailed recommendations for dark colours. Not compatible with translucent sealer / laquer coatings.

Sustainability

All Qwood products are manufactured and produced by Quantum Profile Systems Ltd in Oldham, Lancashire and conform to specification under a Quality Management System that is accredited to ISO9001 and an Environmental Management System accredited to ISO14001.

Qwood is the only timber composite manufacturer in the UK which is fully FSC® and PEFC certified. This emphasises our company's commitment to sustainable practices. We work with the timber industry to ensure that Qwood customers can be confident that the products they buy from us have been ethically sourced.



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