

High Performance Wood Window Specification Guide 2015

Manufacturing

- Factory-assembled, fully finished and glazed to meet or exceed *BS 644:2012* or equivalent national standards

Frames

- All visible surfaces to be J2 class in accordance with *BS EN 942:2007*. Clear-faced sashes and components, defect-free and manufactured from clear, finger-jointed or laminated timber components
- Timber should meet durability class 3 as a minimum, as defined in *BS EN 350-2:1994*, or be treated with a preservative that meets the requirements given in table 3a or 3b of *BS EN 599-1:2009+A1:2013*
- All weathered edges to be rounded within the specification in *BS 644:2012*
- All joints to be fully coated with thermoplastic or thermosetting adhesive (*BS EN 204:2001* and *BS EN 12765:2001*), filled as necessary; exposed end-grain sealed.

Coatings

- Coatings to be selected in accordance with *BS EN 927-1 Paints and Varnishes - Coating Materials and Coating Systems for Exterior Wood - Part 1: Classification and Selection* as appropriate for their intended end use, their appearance and the level of exposure they are likely to experience
- All surfaces to be coated in accordance with *BS 644:2012*. The dry film thickness to be in accordance with the coating manufacturer's recommendations, or otherwise a minimum of 120µm on exposed or semi-exposed surfaces and 60µm on concealed surfaces.

Glazing

- Factory fitted double or triple-glazing units (removable for safe site installation where required)
- Fitted to fully coated, drained and vented up-stands for extended unit life
- All double or triple glazing units to be CE marked in accordance with *BS EN 1279-5*.

Sustainability

Timber

- Legally sourced in accordance with the European Timber Regulations and covered by chain of custody certification

Factory-applied coatings

- All coatings to be water-based, no heavy metal additives, with Volatile Organic Content below 50g/l.

Performance standards

Weather performance

- Windows to meet the performance requirements defined in *BS 6375 Parts 1 and 2*, relating to weather tightness, operation and strength characteristics

Energy performance

- Windows to meet the energy requirements for the devolved building regulations for England, Scotland, Wales and Northern Ireland
- Energy performance to be given by Window Energy Ratings of band C or better, or whole window U-values.

Security

- Locking system security to be in accordance with *BS 6375 Part 3: 2009+A1 2013 Annex A*
- Enhanced security to PAS 24 and Secured By Design where required.

Acoustics

- The airborne sound insulation of windows to be in accordance with *BS EN ISO 717-1*.

Warranties and Service Life

- To cover timber preservation treatment, paint coating applications and maintenance, ironmongery, double and triple glazing units, endorsed by credible suppliers
- To provide credible third-party evidence that window frames will have a Service Planning Life of 60 years.

Manufacturing control, performance declaration and auditing

Factory Production Control

- Factory Production Control System in accordance with *BS EN 14351-1* and the Construction Products Regulation
- Additionally, third party certification schemes such as TRADA Q-Mark, BSI, TWAS, equivalent European scheme or WWA accreditation as appropriate

Performance declarations

- Test evidence, in support of performance specifications from approved suppliers e.g. security fastenings, glazing parameters, sourcing documentation
- All windows to be CE marked in accordance with *EN 14351-1*

Auditing

- Manufacturers' FPC Systems audited in accordance with third party certification schemes or WWA accreditation.