L10 **WINDOWS/ROOFLIGHTS/SCREENS/LOUVRES**

 To be read with Preliminaries/General conditions

 **PRELIMINARY INFORMATION/REQUIREMENTS**

110 EVIDENCE OF PERFORMANCE: Provide independently certified evidence that all specified variants of components comply with specified performance requirements.

130 PROTOTYPES: Prepare one of each of the following and arrange for inspection by the CA before starting repetitive fabrication:

140 CONTROL SAMPLES: After finalisation of all details, prepare one of each of the following, as part of the quantity required for the project, and obtain approval of appearance before proceeding with manufacture of the remaining quantity:

 **COMPONENTS**

400 ALUMINIUM/TIMBER COMPOSITE WINDOWS:

* **Drawing reference(s):**
* **Manufacturer:**

Westcoast Window Systems Ltd, Brickfields Business Park

Old Stowmarket Road, Woolpit, Suffolk, IP30 9QS

Tel: 01359 241944

Web: [www.westcoastwindows.com](http://www.westcoastwindows.com)

* **Product reference:**

**WESTCOAST *CLASSIC* SYSTEM COMPOSITE WINDOWS**

Products to be independently certified by a UKAS accredited organisation (such as BM Trada Q Mark scheme) and the manufacturer must be registered under a third party Quality Assurance scheme to BS EN ISO9001: 2000 and operate an Environmental Management scheme in accordance with BS EN ISO14001: 1996. Windows must have a bonded aluminium / timber frame construction to eliminate risk of moisture infiltration and to enable perimeter sealing to be applied to the outermost plane of the frame. Softwood windows with an external aluminium cladding or aluminium sashes fitted in front of a timber frame will not be permitted.

* **Exterior frame/sash/cladding** :

Material : Extruded aluminium alloy profiles to EN AW 6060-T6

Finish: Polyester powder coating to BS 6496: 1984 in RAL colour to be advised. Paint thickness to be 80-150 µm with a gloss level of 70% +/- 5%.

* **Interior frame/sash :**

Material : Laminated North European Redwood durability Class 3 as defined in BS EN350. Moisture content on delivery 12% +/- 2%

Finish: Akzo Nobel system 2/3-coat factory spray applied water based clear lacquer, stain or paint to be advised. Minimum paint thickness 60 µm with gloss level 45% (clear lacquer and stain 35%).

* **Weathertightness:**

Windows are required to comply with the following minimum performance standards when tested in accordance with EN 1026:2000 (Air Permeability), EN 1027:2000 (Watertightness) and EN 12211:2000 (Wind Resistance).

Air permeability: Class 4 (600 Pa) in accordance with EN 12207:2000

Watertightness: Class E900 (900 Pa) in accordance with EN 12208:2000

Wind resistance: Class A5 (2000 Pa) in accordance with EN 12210:2000

* **Exposure Category (Design wind pressure):**
* **Thermal Transmittance:**

The window construction shall be designed to achieve a whole window ‘U’ value of between 1.2 and 1.4W/m2K (window size 1230 x 1480) in accordance with EN ISO 10077-1 and 10077-2.

* **Glazing:**

Windows will employ a fully drained and ventilated glazing system and shall be factory double or triple glazed with 28mm or 36mm sealed units, constructed in accordance with EN 1279-2 and incorporating warm edge composite super spacers together with super low emissivity soft coatings and argon gas filling as standard. Glass and glazing shall comply with BS6262:2005 Code of Practice for Glazing for Buildings, safety glazed in accordance with BS6206 and marked in accordance with current NHBC requirements.

* **Ironmongery/Accessories:**

Refer to [www.westcoastwindows.com](http://www.westcoastwindows.com) for details of individual product ironmongery.

**INSTALLATION**

710 PROTECTION OF COMPONENTS: Do not deliver to site components that cannot be put immediately into suitable clean, dry floored and covered storage. Stack near vehicle on level bearers, separated with spacers to prevent damage by and to projecting ironmongery, beads etc.

720 MOISTURE CONTENT OF TIMBER COMPONENTS: During delivery, storage, fixing and thereafter to Practical Completion maintain conditions of temperature and humidity to suit specified moisture content(s) of components. When instructed by CA, test components with approved electrical moisture meter used in accordance with manufacturer’s recommendations.

730 PRIMING/SEALING: Before fixing components ensure that surfaces of timber that will be inaccessible after installation are primed or sealed as specified.

740 CORROSION PROTECTION: Before fixing, apply two coats of bitumen solution to NS6946 or an approved mastic impregnated tape to surfaces of \_\_\_\_\_\_\_\_\_\_\_ components that will come into contact with \_\_\_\_\_\_\_\_\_\_\_

750 BUILDING IN will not be permitted except where specifically stated on drawings.

765 WINDOW INSTALLATION: Install windows into prepared openings, maintaining a maximum gap of 10mm between the frame edge and the surrounding construction. Install windows without twist or diagonal racking.

770 PREPARED OPENINGS: ensure that dpcs are positioned correctly in relation to frames and are not displaced during fixing operations.

784 FIXING OF COMPOSITE FRAMES: As section Z20 using preformed stainless steel brackets and frame fixings. When not predrilled or specified otherwise, position fixings not more than 150mm from each end of jambs, adjacent to each hanging point of opening lights and at a maximum 600mm centres.

810 SEALING JOINTS: Sealant manufacturer and reference – Dow Corning Neutral curing silicone. Colour: TBA from 796/797 range. Prepare joints and apply sealant as section Z22. Finish: triangular fillets with a flat or slightly convex profile.

820 IRONMONGERY: assemble and fix carefully and accurately using fasteners with matching finish supplied by ironmongery manufacture. Prevent damage to ironmongery and adjacent surfaces. At completion check, adjust and lubricate as necessary to ensure correct functioning.