Russwood NBS

PROJECT: Royal Hill, Greenwich, London

H21 EXTERNAL TIMBER WEATHERBOARDING

To be read with Preliminaries/General conditions.

- **RUSSWOOD SCOTLARCH® TIMBER CLADDING**

Breather membrane: as clause 130 (UV resistant; plain black colour; no markings/signage; to architect's specification; supplied by others).

Timber cladding specification outline: vertically installed external boarding using Russwood Scotlarch® timber in 150x22mm and 73x22mm nominal size off-saw square-edge boards; sawn surface texture on all working faces of boards; fire retardant impregnation with Burnblock system by WJ Timber Treatments for the external boards; cladding to be factory-coated with SiOO:X Mid Grey (pigmented) wood protection system; boards installed in Board on Board B 'narrow front' arrangement with the front board to overlap the rear board by 25mm; boards face-fixed using L-GoFix® stainless-steel (A2 grade) screws; cladding substructure to use externally sourced battening System, screw fixings for load-bearing and non-load-bearing (pinning) connections and Securo® Firebreather™ cavity barriers.

- **Class / quality of cladding and fixing:** Class 2/3 according to BS 1186-3, Section 4; natural durability of heartwood Class 3 (Moderately durable) according to BS EN 350-1; density approx. 556 kg/m3 at approx. 16-18% moisture content; free from toxic chemical preservatives; fast grown with wide growth rings; coarse texture; live intergrown knots.

  Wood species: Russwood Scotlarch® grade of naturally durable heartwood of European Larch; species *Larix decidua*; grown in Scotland; supplied by Russwood Ltd, Station Sawmill, Newtonmore, Scotland, UK, PH20 1AR; T: 01540 673648; E: mail@russwood.co.uk; W: www.russwood.co.uk.
- **Russwood Scotlarch® grade:** exposed board faces contain naturally durable heartwood and are free from non-durable sapwood; boards with tight live knots with max. 50mm diameter; resin pockets permitted (natural characteristic of Larch); end checks permitted not longer than 1.5 times width of board; board lengths up to 4.8m; air-dried to approx. 16-18% moisture content for optimal performance in UK climate.

- **Environmental credentials:** FSC® certified – sourced from well-managed sustainable forests in Scotland.
- **Cladding profiles:** Russwood 150x22mm nominal size off-saw square-edge boards and 73x22mm nominal off-saw square-edge front boards for vertical Board on Board B arrangement:
    - Finished overall widths: rear boards - 150mm (nominal), front boards – 73mm (nominal)
    - Finished thicknesses: 22mm (nominal)
    - Supplied moisture content: air dried to approx. 16-18%.
- **Sawn surface texture:** cladding boards to have working faces with sawn surface texture.
- **Coatings/treatments:** Fire retardant treatment with Burnblock® impregnation system by third party, WJ Timber Treatments to achieve Euro Class B (UK Class 0).

  All working faces to be factory-coated by Russwood Ltd under factory-controlled conditions to ensure even finish with SiOO:X Mid Grey (pigmented) wood protection system. SiOO:X to be applied in No.3 coats: No.2 coats of Wood Protector (Part 1) and No.1 coat of Surface Protector (Part 2). SiOO:X will cure by reacting with atmospheric carbon dioxide and moisture to form insoluble and flexible silica network within timber surface. Formation of silica network to toughen surface of timber and form effective barrier against insect attack and rot. Board ends to be coated with SiOO:X End Grain Sealer following instructions provided by Russwood Ltd.

    - Securo Firebreather™ cavity barriers:
        - Use No.2 Thermopine® RWB003 41/46x42mm sloped battens installed horizontally for fixing Securo Firebreather™ cavity barriers at locations indicated by Architect; battens to be pinned to wall sheathing using L-GoFix® 5.0x60mm A2 grade stainless-steel screws located at 1200mm centres max.
        - Securo Firebreather™ cavity barrier to be pinned to top Thermopine® RWB003 41/46x42mm batten using L-GoFix® 5.0x60mm A2 grade stainless-steel screws; use No.3 screws per linear metre; if required, flex cavity barrier to fix in points specified.
        - Any gaps between Securo Firebreather™ cavity barriers at external and internal wall corners to be closed off with Rockwool seals (supplied by others).

    - Use shorts cuts of Thermopine® battens to close off cavity behind Securo Firebreather™ cavity barriers at internal wall corners. Any gaps to be closed off with Rockwool seals (supplied by others).
  - Vertical timber cladding boards to be face-fixed using L-GoFix® stainless-steel (A2 grade) screws.
  - Fixing front boards: No.2 5.0x90mm L-GoFix® stainless-steel (A2 grade) per fixing point where vertical cladding boards meet horizontal battens. Screws to be located at quarter points on main face.
  - Fixing rear boards: No.2 5.0x70mm L-GoFix® stainless-steel screws (a2 grade) per fixing point where vertical cladding boards meet horizontal battens. Screws to be located at quarter points on main face.
  - Front boards to overlap rear boards by 25mm.
  - Each screw to go through one cladding board only.
- TerrassenFix® Countersink BS Limiter to be used to ensure consistent driven depth of screws and prevent overdriving.
- All fixings and accessories to be supplied by Russwood Ltd, Station Sawmill, Newtonmore, Scotland, UK, PH20 1AR; T: 01540 673648; E: mail@russwood.co.uk; W: www.russwood.co.uk.