

**Project No.** 150457

**Client:** Council of the Isles of Scilly

**Tender Issue** 10/11/2017

**STRIDE TREGLOWN**  
ARCHITECTURE

## **Carn Gwavel School**

**10 November 2017**

**This document includes:**

Code	Section	Revision	Dated
H21	Timber weatherboarding		

## **H21 Timber weatherboarding**

To be read with Preliminaries/ General conditions.

### **110A VERTICAL TIMBER RAINSCREEN CLADDING TO EXTERNAL WALLS**

- Substrate: OSB SHEETING OVER TIMBER STUDS - TO SE DETAILS.
- Breather membrane: As clause 130.
- Manufacturer: NORclad Ltd. 21 C&D Somerset Square, Nailsea, Bristol, BS48 1RQ. T: 01275 810475. W: [www.timbercladdingsolutions.co.uk](http://www.timbercladdingsolutions.co.uk)
- Timber Battens: 70% PEFC certified European Whitewood sawn regularised battens. Kiln dried 16-20% moisture content. E406 Koppers treated – Coated with Sikkens WF771, 1 base coat all round and 1 top coat to the face and edges, painted Charcoal (black).
- Vertical Counterbattens:
  - Size: 38 x 50 mm.
  - Centres: 600 mm.
- Horizontal Battens:
  - Size: 38 x 50 mm.
  - Centres: 600 mm.
- Boarding:
  - Standard: To BS EN 14915.
  - Quality of timber (exposed surfaces): NORclad timber cladding conforms to the European standard: Quality of timber (exposed surfaces) to EN 14915/EN 15146/EN 14519 and BS 1186-3 produced in accordance with factory production control for the selection, grading, machining and preservative treatment of solid wood cladding..
  - Species: NORclad Canadian Western Red Cedar - Grade 2 Clear & Better.
  - Profile: Square edged boards on battens: Sizes- 18 x 69mm PSE, 18 x 120mm PSE, 18 x 194mm PSE.
  - Moisture content at time of fixing: Approx. 18 - 22%.
  - Treatment: Koppers MicroShades "Brunnea" - 30 years warranty against rot and fungal decay (out of ground contact) NO OTHER COATING REQUIRED.  
Standard: To NBS section Z12 and Wood Protection Association Commodity Specification C6.  
Type: Copper-organic.
- Method of fixing to each support: Single nailed with 50 mm stainless steel lost head annular ring shank nails.
  - Material: Stainless Steel Grade 304.
  - Type: Flat head Annular Ring Shank Nails
  - Length: The fixing length should be: Cedar (2.5x thickness of cladding)
  - Gauge: 2.9mm, Drill pilot holes in cladding.
- Other requirements: Visible cladding fixings all set out and aligned, pilot holes uniform with use of drilling template. C16 timber grade battens. Batten and counter batten fixing to be stainless steel and in accordance with Structural Engineers design and specification..

### **120 CONTROL SAMPLE**

- General: Complete an area of boarding in an approved location and obtain approval of appearance before proceeding.

**130A BREATHER MEMBRANE**

- Manufacturer: Kingspan Insulation.
  - Web: [www.kingspaninsulation.co.uk](http://www.kingspaninsulation.co.uk).
  - Email: [info@kingspaninsulation.co.uk](mailto:info@kingspaninsulation.co.uk).
  - Tel: +44 (0)1544 387601.
  - Address: Pembridge, Leominster, Herefordshire. HR6 9LA.
  - Product reference: Nilvent®
- Installation: Fix carefully and neatly to provide a complete barrier to water, snow and wind blown dust. Extend membrane below lowest timber member and into reveals of openings.
  - Laps: Horizontal: 100 mm. Vertical: 150 mm and staggered, to shed water away from substrate.
  - Fasteners: Galvanized, sherardized or stainless steel large head nails or stainless steel staples.

**135 BATTENS/ COUNTERBATTENS**

- Timber: Regularized softwood free from decay, insect attack (except ambrosia beetle damage) and with no knots wider than half the section width.
- Preservative treatment: As recommended by manufacturer and as spec H21 / 110A.
  - Standard: To NBS section Z12 and Wood Protection Association Commodity Specification C8.
  - Type: Organic solvent.
- Moisture content: Not exceeding 20% at time of fixing.

**141 FIXING BATTENS/ COUNTERBATTENS TO FRAMING/ SHEATHING**

- Setting out: In straight, vertical lines at centres coincident with vertical framing members.
- Batten/ Counterbatten length (minimum): 1200 mm.
- Installation: Where sheathing is provided, fix through sheathing into framing. Fastener heads to finish flush with or slightly below batten face.

**142 FIXING BATTENS TO COUNTERBATTENS**

- Setting out: In straight, horizontal lines. Align on adjacent areas.
- Batten/ Counterbatten length (minimum): 1200 mm.
- Joints: Square cut, butted centrally on counterbattens and not occurring more than once in any group of four battens on any one counterbatten.
- Installation: Fix each batten to each counterbatten. Use splay fixings at joints. Fastener heads to finish flush with or slightly below batten face.

**145 TREATED TIMBER**

- Surfaces exposed by minor cutting and/ or drilling: Treat with two flood coats of a solution recommended for the purpose by main treatment solution manufacturer.

**161 BOARD FIXING**

- General: Fix boards securely to give flat, true surfaces free from undulations, lipping, splits, hammer marks and protruding fasteners.
- Movement: Allow for movement of boards and fixings to prevent cupping, springing, excessive opening of joints or other defects.
- Heading joints: Position centrally over supports and at least two board widths apart on any one support.
- Nail heads: Flush or just below surface of cladding face.