



Stride Treglown

Norbury Court

Conservation Specification and
Methodology for roof insulation

15-01-2024

Office refurbishment and repairs

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G20

Carpentry/ timber-framing/ first fixing

Clauses

2 Timber procurement

1. **Timber (including timber for wood-based products):** Obtained from well-managed forests/ plantations in accordance with:
 - 1.1. The laws governing forest management in the producer country or countries.
 - 1.2. International agreements such as the Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES).
2. **Documentation:** Provide either in accordance with chain of custody certification scheme requirements:
 - 2.1. Documentary evidence (which has been or can be independently verified) regarding the provenance of all timber supplied. or
 - 2.2. Evidence that suppliers have adopted and are implementing a formal environmental purchasing policy for timber and wood-based products.
3. **Chain of Custody Certification scheme:** Contractor's choice, in accordance with UK Government Timber Procurement Policy (UKTPP), i.e. FSC, GiB or PEFC

10 Ungraded softwood

1. **Description:** FLOOR BOARDS TO ROOF SPACE
2. **Species:** Larch - *Larix decidua*
3. **Quality of timber:** Free from decay, insect attack (except pinhole borers) and with no knots wider than half the width of the section.
4. **Surface finish:** Regularized
5. **Treatment:** Organic solvent impregnation to NBS section Z12 and Wood Protection Association Commodity Specification C5, service life: 40 years
6. **Size:** To match existing

30 Selection and use of timber

1. **Timber members damaged, crushed or split beyond the limits permitted by their grading:** Do not use.

32 Notches, holes and joints in timber

1. **Notches and holes:** Position in relation to knots or other defects so that the strength of members will not be reduced.
2. **Scarf joints, finger joints and splice plates:** Do not use without approval.

35 Processing treated timber

1. **Cutting and machining:** Carry out as much as possible before treatment.
2. **Extensively processed timber:** Retreat timber sawn lengthways, thickened, planed, ploughed, etc.
3. **Surfaces exposed by minor cutting/ drilling:** Treat with two flood coats of a solution recommended by main treatment solution manufacturer.

40 Moisture content

1. **Moisture content of wood and wood-based products at time of installation:** Not more than:



- 1.1. Covered in generally unheated spaces: 24%.
- 1.2. Covered in generally heated spaces: 20%.
- 1.3. Internal in continuously heated spaces: 20%.

50 Additional supports

1. **Provision:** Position and fix additional studs, noggings and/ or battens to support edges of sheet materials, and wall/ floor/ ceiling-mounted appliances, fixtures, etc. shown on drawings.
2. **Material properties:** Timber to be of adequate size and have the same treatment as adjacent timber supports.

Ω End of Section



H62 Natural slating

To be read with preliminaries/ general conditions.

20 Removing existing slating

1. **General:** Carefully remove slates, battens, underlay, etc. with minimum disturbance of adjacent retained slating.
2. **Undamaged slates:** Set aside for reuse.

25 Underlay

1. **Handling:** Do not tear or puncture.
2. **Laying:** Maintain consistent tautness.
3. **Vertical laps (minimum):** 100 mm wide, coinciding with supports.
4. **Fixing:** Galvanized steel, copper or aluminium 20 x 3 mm extra large clout head nails.
5. **Eaves:** Where exposed, use an external grade (UV-resistant) underlay or a proprietary eaves support product.
6. **Penetrations:** Use proprietary underlay seals or cut underlay neatly.
7. **Ventilation paths:** Do not obstruct.

30 Battens/ Counterbattens

1. **Timber:** Sawn softwood.
 - 1.1. **Standard:** In accordance with BS 5534, Annex D.
 - 1.2. **Moisture content at time of fixing and covering (maximum):** 22%.
2. **Preservative treatment:** As section Z12 and Wood Protection Association Commodity Specification C8.
 - 2.1. **Type:** Copper-organic

32 Batten fixing

1. **Setting out:** Align parallel to ridge in straight horizontal lines to gauge of slates. Align on adjacent areas.
2. **Batten length (minimum):** Sufficient to span over three supports.
3. **Joints in length:** Butt centrally on supports. Joints must not occur more than once in any group of four battens on one support.
4. **Additional battens:** Provide where unsupported laps in underlay occur between battens.

35 Slate fixing

1. **General:** Fix slating and accessories to make the whole sound and weathertight at earliest opportunity.
2. **Setting out:** To true lines and regular appearance. Lay slates with slightly open (maximum 5 mm) butt joints. Align tails.
3. **Slate thickness:** Consistent in any one course. Lay with thicker end as tail.
4. **Ends of courses:** Use extra wide slates to maintain bond and to ensure that cut slates are as large as possible. Do not use slates less than 150 mm wide.
5. **Top course:** Head-nail short course to maintain gauge.
6. **Fixing:** Centre nail each slate twice through countersunk holes 20-25 mm from side edges.
 - 6.1. **Nails:** Copper clout to BS 1202-2 or aluminium clout to BS 1202-3.



- 6.2. **Nail dimensions:** Determine in accordance with BS 5534 to suit site exposure, withdrawal resistance and slate supplier's recommendations.

86 Ventilator slates

1. **Ventilator slates:**
2. **Manufacturer:** [Roofing Superstore](#)
 - 2.1. **Product reference:** [Nature Vent inline Natural Slate Ventilator](#)
 - 2.2. **Requirement:** To ventilate roof void
 - 2.3. **Positions:** Several courses above parapet gutter, clear of insulation, not to be visible from ground level. See BluePrint drawings for more information.
 - 2.4. **Installation:** See document: *Norbury Court - nature-vent-slate-ventilation-installation-guide*

Ω End of Section



P10 Sundry insulation/ proofing work

To be read with preliminaries/ general conditions.

10 Loft insulation - sheep's wool

1. **Manufacturer:** [Thermafleece](#)
E: enquiries@naturalinsulations.co.uk
T: 01768 485050
 - 1.1. **Product reference:** [Thermafleece CosyWool Sheep's Wool Insulation Rolls](#)
 - 1.2. **Local source:** [RJ Insulation, Plymouth](#)
E: info@rjinsulation.co.uk
T: 0800 804 4625
2. **Material:** Sheep's wool
 - 2.1. **Recycled content:** 75% British Wool and 25% recycled polyester.
 - 2.2. **Thickness:** One layer of 150mm to be placed on top of existing timber floor boards
3. **Installation requirements**
 - 3.1. **Standard:** To BS 5803-5
 - 3.2. **Location:** Laid on top of existing timber floor boards
 - 3.3. **Insulation widths:** Widest practical.
 - 3.4. **Joints:** Butted, no gaps.
 - 3.5. **Insulation:** Fitted neatly around truss ends and extended over wall plates.
 - 3.6. **Eaves ventilation:** None.
 - 3.7. **Service holes:** Sealed, debris removed before laying insulation.
 - 3.8. **Water cistern platforms:** Not applicable

20 Insulation to loft access hatches

1. **Manufacturer:** Saint Gobain as clause 20
 - 1.1. **Product reference:** [Celotex XR4000 as clause 20](#)
2. **Material:** Rigid polyurethane foam to BS EN 13165
 - 2.1. **Recycled content:** Not applicable
 - 2.2. **Thickness:** 110mm
3. **Installation requirements**
 - 3.1. **Fit:** Securely fixed to back of loft hatch
 - 3.2. **Edges of hatch:** Seal with an approved compressible draught excluder.

20 Polyisocyanurate (PIR) foam boards Type A

1. **Manufacturer:** [Saint-Gobain Insulation UK](#)
 - 1.1. **Contact details**
 - 1.1.1. **Address:** Saint-Gobain House
East Leake
Loughborough
Leicestershire
United Kingdom
LE12 6JU
 - 1.1.2. **Telephone:** +44 (0) 1473 822093



- 1.1.3. [Web: insulation-uk.com](http://insulation-uk.com)
- 1.1.4. [Email: InsulationUK.MarketingTeam@saint-gobain.com](mailto:InsulationUK.MarketingTeam@saint-gobain.com)
- 1.2. [Product reference: Celotex XR4000 \(110 mm thick\)](#)
- 2. [Standard: To BS EN 13165.](#)
- 3. [Third-party certification: BRE Green Guide rating of A, Certificate number ENP413; BBA approved 17/5405; ISO 9001; ISO 14001.](#)
- 4. [Fire performance: Euroclass F Reaction to Fire classification, according to BS EN 13501-1. Products with this level of classification are not provided with a rating for smoke emission.](#)
- 5. [Thermal conductivity \(maximum\): 0.022 W/m.K.](#)
- 6. [Compressive strength at 10% deformation: Manufacturer's standard.](#)
- 7. [Cross section: Uniform thickness.](#)
- 8. [Thickness \(nominal\): 110 mm.](#)
- 9. [Face size \(length x width\): 2400 x 1200 mm.](#)
- 10. [Density: Manufacturer's standard.](#)
- 11. [Facing: Foil.](#)
- 12. [Edges: Manufacturer's standard.](#)
- 13. [Handling: Manufacturer's standard.](#)

Ω End of Section





Specification created using NBS Chorus