

Buttress

Great Places

Ancoats Dispensary

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11-10-2022

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Natural slating

Types of slating

105 Roof slating Pitched

1. Description: To dormer roofs
2. Substrate: Rafters. Refer to SEs drawings for centres
3. Pitch: 60
4. Underlay: Vapour-permeable underlay to BS EN 13859, Class W1
 - 4.1. Direction: Parallel to eaves.
 - 4.2. Head-lap (minimum): 65
5. Counter battens
 - 5.1. Size: 50x25mm
 - 5.2. Fixing: Galvanized annular ring shank nails
6. Battens
 - 6.1. Size: 50 x 25 mm
 - 6.2. Fixing: Galvanized annular ring shank nails
7. Slates
 - 7.1. Supplier: Welsh Slate
+44 (0)1248 600656
www.welshslate.com
 - 7.1.1.Product reference: Cwt-Y-Bugail Dark Blue Grey Natural
 - 7.2. Type: County Grade
 - 7.3. Size: 500x250mm
 - 7.4. Head-lap (minimum): 65
8. Fixing: Aluminium Clout nails. Two nails each slate.
9. Accessories: Ventilated ridge,

120 Vertical slating

1. Description: To dormer roofs
2. Substrate: Vertical timber battens refer to SEs drawings for centres
3. Underlay: Vapour-permeable underlay to BS EN 13859, Class W1
 - 3.1. Fixing: Parallel to bottom edge.
 - 3.2. Horizontal lap (minimum): 65mm.
4. Battens
 - 4.1. Size: 50x25
 - 4.2. Fixing: Galvanized annular ring shank nails
5. Slates
 - 5.1. Supplier: Welsh Slate
+44 (0)1248 600656
www.welshslate.com
 - 5.1.1.Product reference: Cwt-Y-Bugail Dark Blue Grey Natural
 - 5.2. Type: County Grade
 - 5.3. Size: 500x250mm

- 5.4. Head-lap (minimum): 65
- 5.5. Fixing: Aluminium Clout nails Two nails each slate.
- 6. Accessories: Welsh Slate Vent for MVHR, Insect mesh

Performance

205 Hygrothermal design

- 1. **Interstitial condensation within roof construction:** Determine risk as recommended in BS 5250 and BS EN ISO 13788.
- 2. **Air and vapour control layer:** Provide a suitable membrane so that damage and nuisance from interstitial condensation do not occur.

207 Fire Performance

- 1. Refer to Hoare Leas Fire Report

Slating generally

210 Basic workmanship

- 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, with neat fit at edges, junctions and features.
- 3. **Fixings for slating accessories:** As recommended by manufacturer.
- 4. **Gutters and pipes:** Keep free of debris. Clean out at completion.

240 Underlay

- 1. **Handling:** Do not tear or puncture.
- 2. **Laying:** Maintain consistent tautness.
- 3. **Vertical laps (minimum):** 100 mm wide, coinciding with supports and securely fixed.
- 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 to give a watertight fit around pipes and components.
- 7. **Ventilation paths:** Do not obstruct.

245 Battens/ counter battens

- 1. **Timber:** Sawn softwood.
 - 1.1. **Species:** In accordance with BS 5534, clause 4.11.1.
 - 1.2. **Permissible characteristics and defects:** Not to exceed limits in BS 5534, Annex D.
 - 1.3. **Grading:** Fully factory pre-graded in accordance with BS 5534
 - 1.4. **Moisture content at time of fixing and covering (maximum):** 22%.
- 2. **Preservative treatment:** As section Z12 and Wood Protection Association Commodity Specification C8

259 Counter battens on rafters

- 1. **Fixing:** Into rafters at not more than 300 mm centres.

265 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:** Square cut. 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.
5. **Fixing:** Each batten to each support. Splay fix at joints in length.

272 Timber for slating substrate work

1. **Timber:** Sawn softwood, free from wane, pitch pockets, decay and insect attack (ambrosia beetle excepted).
 - 1.1. **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:** Organic solvent

275 Slate fixing

1. **Setting out:** Lay slates with an even overall appearance with slightly open (maximum 5 mm) butt joints. Align tails.
2. **Slate thickness:** Consistent in any one course. Lay with thicker end as tail.
3. **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.
4. **Top course:** Head-nail short course to maintain gauge.
5. **Fixing:** Centre nail each slate twice through countersunk holes 20-25 mm from side edges.
 - 5.1. **Nails:** Copper clout to BS 1202-2 or aluminium clout to BS 1202-3.
 - 5.2. **Nail dimensions:** Determine in accordance with BS 5534 to suit site exposure, withdrawal resistance and slate supplier's recommendations.

290 Mortar bedding/ Pointing

1. **Mortar:** As section Z21, 1:3 cement:sand, with plasticizing admixtures permitted.
 - 1.1. **Bond strength providing resistance to uplift:** In accordance with BS 5534.
2. **Weather:** Do not use in wet or frosty conditions or when imminent.
3. **Preparation of concrete and clay tile accessories to be bedded:** Wet and drain surface water before fixing.
4. **Appearance:** Finish neatly as work proceeds and remove residue.

Roof slating edges/ junctions/ features

305 Generally

1. **Fittings and accessories:** As recommended by slate supplier, do not improvise.
 - 1.1. **Exposed fittings and accessories:** To match slate colour and finish.
2. **Cut slates:** Cut only where necessary, to give straight, clean edges.
3. **Flashings:** Fix with or immediately after slating. Form neatly.

325 Fire-separating walls

1. **Separating walls:** Completely fill space between top of wall and underside of slates with mineral wool quilt to provide fire-stopping.

2. **Boxed eaves:** Completely seal air paths in plane of separating wall with wire-reinforced mineral wool, not less than 50 mm thick, fixed to rafters and carefully cut to shape fire-resisting board and quilt to provide fire-stopping.

660 Side abutments

1. **Underlay:** Turn up not less than 100 mm at abutments.
2. **Abutment slates:** Cut as necessary. Fix close to abutments.
3. **Soakers:** Interleave with abutment slates. Fix by turning down over head of abutment slates.

670 Top edge abutments

1. **Underlay:** Turn up not less than 100 mm at abutments.
2. **Top slate courses:** Fix close to abutments.

700 Dry ventilated tile ridges

1. **Underlay:** Provide air gap at apex as recommended by ridge tile manufacturer.
2. **Dry ridge tiles**
 - 2.1. **Manufacturer:** Welsh Slate Cwt-Y-Bugail Dark Blue Grey Natural
3. **Ridge terminals**
 - 3.1. **Manufacturer:** Marley
 - 3.1.1. **Product reference:** Dry Ventilated Ridge System

800 Change of roof pitch

1. **Slating substrate work:** Fix timber tilting fillet to support flashing and courses of slates above change of pitch.
2. **Roof slates:** Make weathertight with flashing.
 - 2.1. **Courses above change of pitch:** Fix undercourse and first course slates.
 - 2.2. **Courses below change of pitch:** Cut top two courses as necessary to maintain gauge. Head-nail top course.

840 Ventilator slates

1. **Ventilator slates**
 - 1.1. **Manufacturer:** Welsh Slate
 - 1.1.1. **Product reference:** Ventilator
 - 1.2. **Requirement:** To ventilate MVHR
 - 1.3. **Positions:** Dormer Roff refer to MEP drawings

Vertical slating edges/ junctions

910 Bottom edges

1. **Slating substrate work:** Fix timber tilting fillet to support bottom course of slates in correct vertical plane. Fix flashing to tilting fillet.
2. **Underlay:** Dress over flashing.
3. **Undercourse and bottom course slates:** Fix with tails neatly aligned.

920 Top edges

1. **Top slate courses:** Fix under abutment and make weathertight with flashings dressed down not less than 150 mm.

930 Side abutments

1. **Slating substrate work:** Chase abutment wall and insert stepped flashing.
 - 1.1. **Flashing:** Return not less than 75 mm behind slating, overlapping underlay and battens. Turn back to form a vertical welt.
2. **Abutment slates:** Cut and fix neatly.

950 Angles with soakers

1. **Angle slates:** Cut extra wide slates and fix to form a straight, close mitred junction.
2. **Soakers:** Interleave with angle slates. Fix by nailing to battens at top edge.

960 Junction with roof verges

1. **Slating substrate work:** Fix additional slating batten parallel to and below verges.
2. **Course end slates:** Splay cut slate and a half width slates to angle of verge rake. Fix to additional slating batten with cut edge parallel to and below verge.

Ω End of Section



Specification created using NBS Chorus