

The following abbreviations are used below:

PC Performance Criteria
IA Instrument of Assessment

Note: The Outcomes and PCs are mandatory and cannot be altered. The IA may be altered by arrangement with SQA. (Where a range of performance is indicated, this should be regarded as an extension of the PCs and is therefore mandatory.)

OUTCOME 1 FORM A DORMER ROOF WEATHERING BY BOSSING AND WELDING SHEET LEAD

- PCs
- (a) The roof weathering formed is:
- (i) of uniform thickness;
 - (ii) sound and weatherproof;
 - (iii) free from wrinkles, kinks, and excessive markings;
 - (iv) in compliance with the specified dimensions and angles of the dormer.
- (b) The weld width, pattern, reinforcement and penetration is sufficient to ensure that the strength of the joint is not less than that of the parent metal.

IA Practical Exercise

The student will be presented with an exercise designed to test the knowledge and skills required to form a dormer roof weathering by bossing and welding sheet lead.

The exercise will consist of the weathering of part of a dormer top penetrating a sloping roof using BS Code No.5 sheet lead and will incorporate the following:

- (a) lead welded intersection between rear of dormer top and sloping roof at drip edge;
- (b) bossed front external corner to drip edge;
- (c) lead welded undercloak of solid roll to sloping roof;
- (d) bossed undercloak of solid roll to drip edge.

Satisfactory achievement of the Outcome will be based on all the Performance Criteria being met.

OUTCOME 2 FABRICATE A DORMER ROOF WEATHERING IN SHEET COPPER

PCs The roof weathering fabricated is:

- (a) sound and weatherproof;
- (b) free from buckling and creases;

- (c) in compliance with the specified dimensions and angles of the dormer roof.

IA Practical Exercise

The student will be presented with a practical exercise designed to test the knowledge and skills required to fabricate a dormer roof weathering in sheet copper.

The exercise will consist of the weathering of part of a dormer top penetrating a sloping roof using sheet copper and will incorporate the following:

- (a) welted intersection between dormer top and sloping roof at drip edge;
- (b) welted external corner to drip edge;
- (c) standing seam to sloping roof;
- (d) standing seam to drip edge.

Satisfactory achievement of the Outcome will be based on all the Performance Criteria being met.

**The following sections of the descriptor are offered as guidance.
They are not mandatory.**

CONTENT/CONTEXT

Corresponding to Outcomes 1-2:

1. Dormer roof weathering details in sheet lead and copper including methods of jointing bays (solid rolls, standing seams). Details at drip edges and sloping roofs - solid roll details at drip edges and sloping roofs. Intersections between dormer tops and sloping roofs at drip edges, dormer corners, lead welding of solid rolls.
2. Weathering of dormer cheeks in sheet lead and copper, weathering between dormer roofs and slated/tiled roofs. Window flashings.

SUGGESTED LEARNING AND TEACHING APPROACHES

This is a workshop based module. Sufficient time should be available to enable students to practise the fabrication skills prior to attempting assessment exercises.

Demonstrations should be given by the lecturer, after which time the student would be expected to work individually from detailed drawings to complete the weatherings which should be designed to fit dormer roof formers.

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