

Unit 17: Waterproofing Roof Openings

Unit code: Y/503/4951

QCF Level: 2

Credit value: 10

Guided learning hours: 60

Unit aim and purpose

This unit should enable learners to understand the tools, equipment and working techniques used to perform waterproofing roofing opening, and gives learners the opportunity to use these techniques on a variety of tiling and slating systems on a domestic dwelling.

Learning outcomes and assessment criteria

In order to pass this unit, the evidence that the learner presents for assessment needs to demonstrate that they can meet all the learning outcomes for the unit. The assessment criteria determine the standard required to achieve the unit.

Learning outcomes	Assessment criteria
1 Understand the preparation required in waterproofing roof openings	1.1 explain how to comply with legislation to maintain safe working practices for the installation of given waterproofing systems 1.2 calculate materials, tools, equipment and quantities from given work method documents 1.3 describe safe manual methods for movement of resources in the work area 1.4 explain the importance of dealing with waste appropriately, including minimising its creation
2 Be able to carry out water proofing operations to a tiled roof safely at height	2.1 select resources and equipment required to carry out a specified activity to a contractor specification, applying safe working practices

	<p>2.2 apply waterproofing to a double lap tiled roof opening to a contractor specification, applying safe working practices</p> <p>2.3 sort and remove materials and equipment, including waste, to leave the area clean and safe</p>
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Unit content

1 Understand the preparation required in waterproofing roof openings

Legislation: subcontractor's legal, statutory and contractual responsibilities under safety health and welfare; manual handling; Control of Substances Hazardous for Health (COSHH); waste disposal; operative's role and responsibilities for safety of site environment; material and equipment handling; access and egress; disposal of waste; safe access and egress from the working area based on the given method; checks for access and egress; creation of a safe working area around the roof opening

Resource: roof structures (single and double lap); brick chimney stack; pipe aperture; valleys; roof components (soakers, stepped flashing, back gutter, pipe collar and soaker, valley, step and over flashing, apron flashings); roofing systems (single lap interlocking proprietary systems, double lap); access and egress to working areas at height (domestic two storey); tools and equipment; manual handling; cutting and forming; power tools; temporary electrical installations

Waste removal: methods (manual and mechanical); transporting; hazardous; non-hazardous; waste reduction techniques (preformed, standard sizes)

Movement: site transportation, handling and storage of materials and equipment

2 Be able to carry out water proofing operations to a tiled roof safely at height

Legislation: working at height legislation; Control of Substances Hazardous for Health (COSHH); manual handling; Provision and Use of Work Equipment Regulations (PUWER); operative's role and responsibilities for safety of site environment; personal protective equipment (PPE); hazardous materials

Roofing system: single lap; single lap interlocking; double lap, nail and proprietary mechanical fixing; manual handling and transporting of materials and equipment at height; manual and mechanical site clearance operations to site recycling area

Waterproofing operations: cutting, shaping, forming and fixing components (single lap roof and double lap tiled roof system); soakers; stepped flashing; step and over flashing; back gutter; apron flashing; pipe aperture; flexible metal and proprietary materials; fixing flexible flashings and pointing

Removal of materials: leaving area clean, safe and free from plant, equipment and materials; sorting and removing waste materials from the work area to specified waste disposal /recycling bins

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