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**Overview**

This standard is about interpreting information, adopting safe, healthy and environmentally responsible work practices, selecting and using materials, components, tools and equipment and preparing backing walls and securing proprietary and bespoke sub-frames to receive rainscreen cladding systems

This standard is for people preparing backing walls and installing rainscreen cladding support systems working in the occupational area of cladding occupations and can be used by operatives, supervisors and managers

**Performance criteria**

- You must be able to:
- P1 interpret the given information relating to the work and resources to confirm its relevance
  - P2 comply with the given, relevant legislation and official guidance to carry out your work and maintain safe and healthy work practices
  - P3 select the required quantity and quality of resources for the methods of work
  - P4 comply with organisational procedures to minimise the risk of damage to the work and surrounding area
  - P5 comply with the given contract information to carry out the work efficiently to the required specification
  - P6 complete the work within the allocated time, in accordance with the programme of work

**Knowledge and understanding**

**Performance Criteria 1**

**Interpretation of information**

You need to know and understand:

- K1 the organisational procedures developed to report and rectify inappropriate **information** and unsuitable **resources**, and how they are implemented
- K2 the types of **information**, their source and how they are interpreted
- K3 the organisational procedures to solve **problems** with the **information** and why it is important they are followed

**Performance Criteria 2**

**Safe work practices**

You need to know and understand:

- K4 the level of understanding operatives must have of **information** for relevant, current **legislation and official guidance** and how it is applied
- K5 how **emergencies** should be responded to and who should respond
- K6 the organisational **security procedures** for tools, equipment and personal belongings
- K7 what the accident reporting procedures are and who is responsible for making the report
- K8 why, when and how **health and safety control equipment** should be used
- K9 how to comply with environmentally responsible work practices to meet current **legislation and official guidance**

**Performance Criteria 3**

**Selection of resources**

You need to know and understand:

- K10 the characteristics, quality, uses, sustainability, limitations and defects associated with the **resources** and how defects should be rectified
- K11 how the **resources** should be used and how any **problems** associated with the **resources** are reported
- K12 the organisational procedures to select **resources**, why they have been developed and how they are used
- K13 the **hazards** associated with the **resources** and **methods of work** and how they are overcome

**Performance Criteria 4**

**Minimise the risk of damage**

You need to know and understand:

- K14 how to **protect work** from damage and the purpose of protection
- K15 why **disposal of waste** should be carried out safely and how it is achieved

**Performance Criteria 5**

**Meet the contract specification**

You need to know and understand:

- K16 how **methods of work**, to meet the specification, are carried out and **problems** reported
- K17 how **maintenance** of tools and equipment is carried out

**Performance Criteria 6**

**Allocated time**

You need to know and understand:

- K18 what the **programme** is for the work to be carried out in the estimated, allocated time and why deadlines should be kept

**Additional Information**

**Scope/range related to performance criteria**

**Performance Criteria 1**

- 1 interpretation of drawings, specifications, schedules, method statements, risk assessments and manufacturers' information related to the work to be carried out

**Performance Criteria 2**

- 2 avoidance of risk by complying with the given information relating to the following
  - 2.1 methods of work
  - 2.2 safe use of health and safety control equipment
  - 2.3 safe use of access equipment
  - 2.4 safe use, storage and handling of materials, tools and associated equipment
  - 2.5 specific risks to health

**Performance Criteria 3**

- 3 selection of resources associated with own work
  - 3.1 materials, components and specialised fixings for compatible materials
  - 3.2 tools and equipment
  - 3.3 access equipment

**Performance Criteria 4**

- 4 protection of the work and its surrounding area from damage
- 5 prevent damage and maintain a clean work space
- 6 disposal of waste in accordance with current legislation

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**Performance Criteria 5**

- 7 demonstration of work skills to measure, mark out, cut, level, plumb, adjust, fit, position, fix and secure
- 8 use and maintain hand tools, portable power tools and ancillary equipment
- 9 prepare backing walls and install rainscreen wall cladding vertical and horizontal support systems to given working instructions

**Performance Criteria 6**

- 10 completion of own work within the estimated, allocated time to meet the needs of other occupations and/or client

**Scope/range related to knowledge and understanding**

**Disposal of waste**

- 1 environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance

**Emergencies**

- 2 operative's response to situations in accordance with organisational authorisation and personal skills when involved with
  - 2.1 fires, spillages, injuries, falls, rescue procedures
  - 2.2 emergencies relating to occupational activities

**Hazards**

- 3 those identified by risk assessment, method of work, manufacturers' technical information, statutory regulations and official guidance

**Health and safety control equipment**

- 4 identified by the principles of prevention for occupational use, types and purpose of each type, work situations and general work environment
  - 4.1 collective protective measures
  - 4.2 personal protective equipment (PPE)
  - 4.3 respiratory protective equipment (RPE)

**Information**

- 5 drawings, specifications, schedules, method statements, risk assessments, manufacturers' information and current regulations governing buildings and official guidance associated with preparing backing walls and installing support systems to receive rainscreen wall cladding systems

**Legislation and official guidance**

- 6 this relates to the operative's responsibilities regarding potential accidents, health hazards and the environment whilst working in the workplace, below ground level, in confined spaces, at height, with tools and equipment, with materials and substances, with movement and storage of materials and by manual handling and mechanical lifting and with mechanical access equipment

**Maintenance**

- 7 operative care of hand tools, portable power tools and ancillary equipment
- 8 how and when maintenance should be carried out

**Methods of work**

- 9 application of knowledge for safe and healthy work practices, procedures and skills relating to the method and area of work and materials used to
  - 9.1 identify installation quality requirements
  - 9.2 conform to agreed specification
  - 9.3 confirm manufacturers' installation criteria
  - 9.4 assess suitability of backing walls
  - 9.5 check currency of calibration for levelling equipment
  - 9.6 identify datum, establish, work to and transfer levels and plumb lines
  - 9.7 install proprietary vertical and horizontal support systems
  - 9.8 install bespoke vertical and horizontal support systems
  - 9.9 measure, mark out and cut supports to form internal and external angles
  - 9.10 form opening reveals
  - 9.11 adjust, fit, position, fix and secure brackets and fixing components for rainscreen wall cladding support systems
  - 9.12 install insulation, fire stops, breather membranes and vapour control layers
  - 9.13 check quality and suitability of work on completion and at the end of each working period
  - 9.14 recognise and determine when additional specialist skills and knowledge are required and report accordingly
  - 9.15 determine specific requirements for structures of special interest, traditional build (pre 1919) and historical significance
  - 9.16 work with, around and in close proximity to plant and machinery
  - 9.17 work from mobile elevating work platforms
  - 9.18 use hand tools, portable power tools and equipment
  - 9.19 work at height
  - 9.20 use access equipment
- 10 team work and communication
- 11 needs of other occupations associated with the preparation of backing walls for rainscreen wall cladding support systems



**Problems**

12 those arising from information, resources and methods of work

12.1 own authority to rectify

12.2 organisational reporting procedures

**Programme**

13 types of progress charts, timetables and estimated times

14 organisational procedures for reporting circumstances which will affect the work programme

**Protect work**

15 protect work against damage from general workplace activities, other occupations and adverse weather conditions

**Resources**

16 materials, components and equipment relating to types, quantity, quality, sizes and the sustainability of standard and specialist

16.1 fixings, fasteners, flashings, fittings, halter carriers, rails, brackets and spacer systems

16.2 insulation, vapour control, separation and breather membranes, primers, cleaning agents, sealing tapes, sealants and fillers

16.3 hand tools, portable power tools and equipment

17 identify quantity, length, area and wastage associated with the method and procedure to prepare backing walls to receive rainscreen wall cladding support systems

**Security procedures**

18 site, workplace, company and operative

**Glossary:**

**Sheeting and cladding** on roof and walls – a waterproof skin (multi layered) over a structure.

**Single skin** – one layer of either sinusoidal (corrugated) profiled steel, aluminium, Polyvinyl Chloride (PVC), Glass Reinforced Plastic (GRP), Poly carbonate or fibre cement sheeting that fits directly to roof or wall without insulation, this also applies to **trapezoidal** (box) profiled sheet of either of the above materials except fibre cement which is only available as sinusoidal profiles.

**Crown** – highest part of the profile.

**Trough or pan** – lowest part of the profile.

**Standing seam** – sheets with a raised seam usually made from steel or aluminium.

**Halter** – the fixing connecting the sheets together, **zipped**, and to the structure.

**Clip fix sheets** – a variant of raised seam and halter, made from the same material as the sheets but using hidden clips, **secret fix**, to secure them to the structure.

**Twin or double skin insulated systems** – utilise a lining sheet and **spacer** system to create a void for insulation, and all other forms of sheeting and cladding can be utilised to form the waterproof skin when fixed to the spacer.

**Composite panels** – also referred to as **sandwich panels**, are manufactured to fit to roofs and walls in a variety of profiles and configurations and comprise two layers of metal with an insulation core, some systems are only suitable for walls. These panels come in various configurations including **standing seam**.

**Decking** – a profiled sheet or tray that provides a base for another roof system.

**Structural panels** – metal profiled sheeting or trays designed to span beams and columns. Specific designs of composite panels can be used as structural components.

**Cladding materials made from:** ACM – Aluminium Composite Material, Aluminium, Brick slip, Ceramic, Copper, Fibre cement, Fibre concrete, GRC – Glassfibre Reinforced Concrete, GRP – Glass Reinforced Plastic, Polycarbonate, Glass (non vision) Monolithic Panels, Chromatics, HPL – high pressure laminate, Photovoltaic, Render, Stainless steel, Terracotta, Timber, Timber laminate, Thin stone, Weather boarding, Zinc.

## COSVR183 – SQA Unit Code HN8K 04

### Prepare backing walls to receive rainscreen wall cladding systems

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**Developed by** ConstructionSkills

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**Version number** 3

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**Date approved** November 2014

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**Indicative review date** November 2019

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**Validity** Current

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**Status** Original

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**Originating organisation** ConstructionSkills

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**Original URN** COSVR183

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**Relevant occupations** Roofers, Roof Tilers and Slaters

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**Suite** Cladding Occupations (Construction); Innovative/Modern Methods of Construction

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**Key words** Insulation; Vapour control; Primers; Breather membranes; Sealing tapes; Cladding; Rainscreen