
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 resources, components and materials for the installation of sheeting and cladding materials to roofs and walls

This standard is for people preparing resources for the installation of sheeting and cladding working in the occupational area of cladding and rainscreen cladding occupations and can be used by operatives, supervisors and managers

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Prepare resources for the installation of sheeting and cladding materials on roofs and walls

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

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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**

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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

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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 equipment
 - 2.5 specific risks to health

Performance Criteria 3

- 3 selection of resources associated with own work
 - 3.1 materials, components and fixings
 - 3.2 tools and 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

Performance Criteria 5

- 7 demonstration of work skills to identify, check, measure, mark out, cut, prepare and position
- 8 use and maintain hand tools, portable power tools and ancillary equipment
- 9 prepare resources for installation, to include sheeting and cladding materials, fixings, flashings, roof and wall components and ancillary equipment, to given working instructions for at least one of the following systems
 - 9.1 built-up
 - 9.2 standing seam
 - 9.3 secret fix
 - 9.4 composite panel
 - 9.5 fibre-cement
 - 9.6 rainscreen cladding

Performance Criteria 6

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

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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, oral and written procedures, site inductions and current regulations governing buildings and official guidance associated with preparing resources for the installation of sheeting and cladding

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, in confined spaces, at height, with tools and equipment, with materials and substances, with movement and storage of materials, by manual handling and mechanical lifting and with mechanical access equipment

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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 check resources for type, quantity and damage and report discrepancies
 - 9.5 deal with damaged and incorrect roof and wall sheeting and cladding materials and resources
 - 9.6 identify types and characteristics of cladding sheets including single skin, sinusoidal (corrugated), trapezoidal (box) and fibre cement profiles, twin or double skin insulated systems, composite panel (sandwich panel) systems, decking, structural decking and rainscreen products
 - 9.7 identify parts of roof and wall cladding sheets including top and bottom flanges, crown, web, trough or pan
 - 9.8 identify types, characteristics and applications of cladding products and systems including built-up, standing seam, secret fix, composite panel, fibre cement, rainscreen cladding products
 - 9.9 recognise the differences between sheeting and cladding profiles for walls and roofs
 - 9.10 measure, mark out and cut sheeting and cladding
 - 9.11 adjust and position fixings, halters, spacers, clips and fittings
 - 9.12 identify, recognise and work to gridlines and datum marks
 - 9.13 prepare, align and position resources ready to install: built-up, standing seam, secret fix, composite panel, fibre cement and rainscreen cladding
 - 9.14 check quality and suitability of work on completion and at the end of each working period

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- ~~9.15 recognise and determine when additional specialist skills and knowledge are required and report accordingly~~
 - 9.16 work from mobile elevating work platforms
 - 9.17 work with, around and in close proximity to plant and machinery
 - 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 preparing resources for the installation of sheeting and cladding materials on roofs and walls

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 and fasteners, flashings, fittings, halters, spacer systems
 - 16.2 insulation, vapour control, separation and breather membranes
 - 16.3 sealants and fillers
 - 16.4 metal and translucent sheets, built up, standing seam, secret fix, composite panels, rainscreen cladding panels, decking panels and fibre cement systems
 - 16.5 hand tools, portable power tools and equipment

- 17 identify quantity, length, area and wastage associated with the method and procedure to prepare sheeting and cladding materials and resources for

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installation on roofs and walls

Security procedures

18 site, workplace, company and operative

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Prepare resources for the installation of sheeting and cladding materials on roofs and walls

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.

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