

Developer's Pack National Occupational Standards for

Project 2019 / 2020

COSVR444, COSVR445, COSVR446, COSVR447, COSVR448, COSVR449,
COSVR450, COSVR451, COSVR452, COSVR644, COSVR645, COSVR748,
COSVR749

September 2019



Contents

	Page no.
Revised NOS:	
COSVR444 Prepare structure for treatment	1
COSVR445 Apply preservation treatment	10
COSVR446 Reinststate the structure after treatment	19
COSVR447 Install wall ties in existing structures	29
COSVR448 Install external wall insulation	38
COSVR449 Apply surface finishes to external wall insulation	47
COSVR450 Install cavity wall insulation	57
COSVR451 Install loft insulation	66
COSVR452 Install draught-proofing to openings	76
COSVR644 Install internal insulation to walls, floors or ceilings	85
COSVR645 Install insulation to framed sections of buildings	94
COSVR748 Install insulation to warm roofs	104
COSVR749 Install insulation to walls	113

COSVR444

Prepare structure for treatment



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 site and structures to receive wood preservation and/or damp-proofing treatment and/or wall tie replacement

This standard is for people working in the occupational area of insulation and building treatments and can be used by operatives, supervisors and managers

COSVR444

Prepare structure for treatment

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

COSVR444

Prepare structure for treatment

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**

Prepare structure for treatment

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

Prepare structure for treatment

Additional Information

Scope/range related to performance criteria

Performance Criteria 1

- 1 interpretation of drawings, specifications, schedules, method statements, risk assessments, manufacturers' information and data sheets 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 and work platforms
 - 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 minimise 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 measure, mark out, prepare, position and secure
- 8 use and maintain hand tools, portable power tools and ancillary equipment
- 9 prepare for treatments of wood preservation and/or damp-proofing and/or wall tie replacement, to given working instructions, relating to at least three of the following
 - 9.1 clean substrates
 - 9.2 erect temporary barriers and signs
 - 9.3 removal of non-structural and/or structural components for access to treatment areas
 - 9.4 storage of items to be reinstated

Performance Criteria 6

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

Prepare structure for treatment

Scope/range related to knowledge and understanding

Disposal of waste

- 1 environmental responsibilities, organisational procedures, manufacturers' information and data sheets, 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
 - 2.2 emergencies relating to occupational activities

Hazards

- 3 those identified by risk assessment, method of work, manufacturers' technical information and data sheets, 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)
 - 4.4 local exhaust ventilation (LEV)

Information

- 5 drawings, specifications, schedules, method statements, risk assessments, manufacturers' information and data sheets and current regulations governing buildings

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/storage of materials and by manual handling and mechanical lifting

Maintenance

- 7 operative/technician care of hand tools, portable power tools and ancillary equipment

Prepare structure for treatment

Methods of work

- 8 application of knowledge for safe, healthy and environmental work practices, procedures and skills relating to the method/area of work and materials used to
 - 8.1 understand the implications of existing guarantees and warranties
 - 8.2 prepare site and clean structures to substrate for either in-situ wood preservation and/or damp-proofing and/or wall tie replacement remedial treatments above and below (wood preservation only) ground level
 - 8.3 protect the site from all treatments (dust sheets, plastic sheets)
 - 8.4 measure areas for treatment and volumes of treatment products: cleaning fluids, neutralisers, inhibitors, biocides, water repellents, stabilisers and wall ties
 - 8.5 erect temporary barriers and signs
 - 8.6 remove non-structural and structural components for access to treatment areas
 - 8.7 check for hidden utilities
 - 8.8 provide temporary supports to the structure
 - 8.9 store items to be reinstated after treatment
 - 8.10 recognise when specialist skills and knowledge are required and report accordingly
 - 8.11 recognise specific requirements for structures of special interest, traditional construction (pre 1919) and historical significance and report accordingly
 - 8.12 use hand tools, portable power tools and equipment
 - 8.13 work at height
 - 8.14 use access equipment and work platforms
- 9 team work and communication
- 10 needs of other occupations associated with preparing structures for treatment

Problems

- 11 those arising from information, resources, methods of work and building conditions
 - 11.1 own authority to rectify
 - 11.2 organisational reporting procedures

COSVR444

Prepare structure for treatment

Programme

- 12 types of progress charts, timetables and estimated times
- 13 organisational procedures for reporting circumstances which will affect the work programme

Protect work

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

Resources

- 15 materials, components and equipment relating to types, quantity, quality, sizes and the sustainability of standard and/or specialist
 - 15.1 cleaning fluids, neutralisers, inhibitors, water repellents, stabilisers and wall ties
 - 15.2 signs, barriers, props and fixings
 - 15.3 hand tools, portable power tools and equipment
- 16 methods of calculating quantity, length, area, volume and wastage associated with the method/procedure to prepare structures for treatment

Security procedures

- 17 site, workplace, vehicles, company and operative/technician

COSVR444

Prepare structure for treatment

Developed by ConstructionSkills

Version number 3

Date approved December 2014

Indicative review date December 2019

Validity Current

Status Original

Originating organisation ConstructionSkills

Original URN COSVR444

Relevant occupations Construction Operatives

Suite Insulation and Building Treatments (Construction); Super-structure Work Occupations (Construction)

Key words Treatments; Wood preservation; Wall tie replacement; Neutralisers, Inhibitors, Water repellents; Stabilisers

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 and applying wood preservation and/or damp-proofing treatment

This standard is for people working in the occupational area of insulation and building treatments and can be used by operatives, supervisors and managers

COSVR445

Apply preservation treatment

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

COSVR445

Apply preservation treatment

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 the types of **fire extinguishers** and how and when they are used
- K6 how **emergencies** should be responded to and who should respond
- K7 the organisational **security procedures** for tools, equipment and personal belongings
- K8 what the accident reporting procedures are and who is responsible for making the report
- K9 why, when and how **health and safety control equipment** should be used
- K10 how to comply with environmentally responsible work practices to meet current **legislation and official guidance**

COSVR445

Apply preservation treatment

Performance Criteria 3

Selection of resources

You need to know and understand:

- K11 the characteristics, quality, uses, sustainability, limitations and defects associated with the **resources** and how defects should be rectified
- K12 how the **resources** should be used and how any **problems** associated with the **resources** are reported
- K13 the organisational procedures to select **resources**, why they have been developed and how they are used
- K14 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:

- K15 how to **protect work** from damage and the purpose of protection
- K16 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:

- K17 how **methods of work**, to meet the specification, are carried out and **problems** reported
- K18 how **maintenance** of tools and equipment is carried out

Performance Criteria 6

Allocated time

You need to know and understand:

- K19 what the **programme** is for the work to be carried out in the estimated, allocated time and why deadlines should be kept

COSVR445

Apply preservation treatment

Additional Information

Scope/range related to performance criteria

Performance Criteria 1

- 1 interpretation of drawings, specifications, schedules, method statements, risk assessments, manufacturers' information and data sheets 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 and work platforms
 - 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 and components
 - 3.2 tools and equipment

Performance Criteria 4

- 4 protection of the work and its surrounding area from damage
- 5 minimise 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 measure, mix, brush, drill, spray and inject
- 8 use and maintain hand tools, portable power tools, treatment equipment and ancillary equipment
- 9 application of remedial in-situ treatments of either wood preservation and/or damp-proofing 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

Apply preservation treatment

Scope/range related to knowledge and understanding

Disposal of waste

- 1 environmental responsibilities, organisational procedures, manufacturers' information and data sheets, 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
 - 2.2 emergencies relating to occupational activities

Fire extinguishers

- 3 water, CO₂, foam, powder and their uses

Hazards

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

Health and safety control equipment

- 5 identified by the principles of prevention for occupational use, types and purpose of each type, work situations and general work environment
 - 5.1 collective protective measures
 - 5.2 personal protective equipment (PPE)
 - 5.3 respiratory protective equipment (RPE)
 - 5.4 local exhaust ventilation (LEV)

Information

- 6 drawings, specifications, schedules, method statements, risk assessments, manufacturers' information and data sheets, and current regulations governing buildings

Legislation and official guidance

- 7 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/storage of materials and by manual handling and mechanical lifting

Maintenance

- 8 operative care of hand tools, portable power tools, treatment equipment and ancillary equipment

Apply preservation treatment

Methods of work

- 9 application of knowledge for safe and healthy and environmental work practices, procedures and skills relating to the method/area of work and materials used to
 - 9.1 understand the implications of existing guarantees and warranties
 - 9.2 apply wood preservation and/or damp-proofing treatments above or below (wood preservation only) ground level to structures and components by brush, spray, irrigation, injection and electro-osmosis
 - 9.3 prepare two-part treatment mixes
 - 9.4 identify and complete drilling patterns
 - 9.5 measure areas for treatment and volumes of treatment mixes, biocides and additives
 - 9.6 apply cementitious/liquid membranes and fix physical membranes
 - 9.7 recognise when specialist skills and knowledge are required and report accordingly
 - 9.8 recognise specific requirements for structures of special interest, traditional construction (pre 1919) and historical significance
 - 9.9 use hand tools, portable power tools and treatment equipment
 - 9.10 work at height
 - 9.11 use access equipment and work platforms
- 10 team work and communication
- 11 needs of other occupations associated with applying preservation treatments

Problems

- 12 those arising from information, resources, methods of work and building conditions
 - 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

COSVR445

Apply preservation treatment

Resources

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

16.1 biocides, damp-proofing products and water

16.2 cementitious, liquid and physical membranes

16.3 hand tools, portable power tools and treatment equipment

17 methods of calculating quantity, length, area, volume and wastage associated with the method/procedure to apply preservation treatment

Security procedures

18 site, workplace, vehicles, company and operative/technician

COSVR445

Apply preservation treatment

Developed by ConstructionSkills

Version number 3

Date approved December 2014

Indicative review date December 2019

Validity Current

Status Original

Originating organisation ConstructionSkills

Original URN COSVR445

Relevant occupations Construction Operatives

Suite Insulation and Building Treatments (Construction)

Key words Remedial; In-situ treatments; Wood preservation; Damp-proofing; Biocides

Overview

This standard is about interpreting information, adopting safe, healthy and environmentally responsible work practices, selecting and using materials, components, tools and equipment and reinstating the structure and finishings after the application of wood preserving and/or damp-proofing treatments and/or wall tie replacement

This standard is for people working in the occupational area of insulation and building treatments and can be used by operatives, supervisors and managers

COSVR446

Reinstate the structure after building treatment

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

COSVR446

Reinstate the structure after building treatment

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**

Reinstate the structure after building treatment

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

Reinstate the structure after building treatment

Additional Information

Scope/range related to performance criteria

Performance Criteria 1

- 1 interpretation of drawings, specifications, schedules, method statements, risk assessments, manufacturers' information and data sheets 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 and work platforms
 - 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 minimise damage and maintain a clean work space
- 6 disposal of waste in accordance with current legislation

Reinstate the structure after building treatment

Performance Criteria 5

- 7 demonstration of work skills to measure, mark out, fit, apply, clean, position and secure
- 8 use and maintain hand tools, portable power tools and ancillary equipment
- 9 reinstate the structure after wood preservation and/or damp-proofing treatments and/or wall tie replacement to given working instructions, relating to at least two of the following
 - 9.1 air bricks
 - 9.2 masonry
 - 9.3 plasterwork and/or renders
 - 9.4 structural timbers (wall plates, joists, flooring/decking) – wood preservation and/or damp-proofing only
 - 9.5 non-structural components (doors, windows, skirting, architraves and services that have been temporarily moved for treatment purposes)
 - 9.6 damp-proof courses
 - 9.7 insulation
- 10 arrange re-commission of services (as appropriate)

Performance Criteria 6

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

Reinstate the structure after building treatment

Scope/range related to knowledge and understanding

Disposal of waste

- 1 environmental responsibilities, organisational procedures, manufacturers' information and data sheets, 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
 - 2.2 emergencies relating to occupational activities

Hazards

- 3 those identified by risk assessment, method of work, manufacturers' technical information and data sheets, 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)
 - 4.4 local exhaust ventilation (LEV)

Information

- 5 drawings, specifications, schedules, method statements, risk assessments, manufacturers' information and data sheets, and current regulations governing buildings

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/storage of materials and by manual handling and mechanical lifting

Maintenance

- 7 operative/technician care of hand tools, portable power tools and ancillary equipment

Reinstate the structure after building treatment

Methods of work

- 8 application of knowledge for safe, healthy and environmental work practices, procedures and skills relating to the method/area of work and materials used to
 - 8.1 reinstate structures after treatments above or below (wood preservation) ground level
 - 8.2 understand the implications of existing guarantees and warranties
 - 8.3 reinstate air bricks and ventilation
 - 8.4 reinstate masonry
 - 8.5 rebuild (sleeper walls, piers, walls)
 - 8.6 apply plasterwork where removed
 - 8.7 install structural timbers (wall plates, joists, flooring/decking)
 - 8.8 replace doors, windows, skirting, architraves
 - 8.9 replace services, to the point of connection, that were temporarily removed for treatment purposes
 - 8.10 arrange the re-commission of services (electric, gas, water, media cables)
 - 8.11 insert damp-proof courses
 - 8.12 replace insulation
 - 8.13 mix lime and cement mortars and concrete
 - 8.14 clean cavities
 - 8.15 complete post installation checks: compliance with specifications, water penetration, anchorage/fixing, vents, services (gas, electric, water, media cables)
 - 8.16 recognise when specialist skills and knowledge are required and report accordingly
 - 8.17 recognise specific requirements for structures of special interest, traditional build (pre 1919) and historical significance
 - 8.18 use hand tools, portable power tools and equipment
 - 8.19 work at height
 - 8.20 use access equipment and work platforms
- 9 team work and communication
- 10 needs of other occupations associated with reinstating structures after treatments

Reinstate the structure after building treatment

Problems

11 those arising from information, resources, methods of work and building conditions

11.1 own authority to rectify

11.2 organisational reporting procedures

Programme

12 types of progress charts, timetables and estimated times

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

Protect work

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

Resources

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

15.1 removed components, sand, cement, lime, bricks, masonry, stone, plasters, plasterboards, damp-proof course (DPC), insulation, timber, wall ties, dyes, fixings, fittings

15.2 hand tools, portable power tools and equipment

16 methods of calculating quantity, length, area and wastage associated with the method/procedure to reinstate the structure after building treatments

Security procedures

17 site, workplace, vehicles, company and operative/technician

COSVR446

Reinstate the structure after building treatment

Developed by ConstructionSkills

Version number 3

Date approved December 2014

Indicative review date December 2019

Validity Current

Status Original

Originating organisation ConstructionSkills

Original URN COSVR446

Relevant occupations Construction Operatives

Suite Insulation and Building Treatments (Construction): Super-structure Work Occupations (Construction)

Key words Wood preserving; Damp-proofing; Wall ties; Renders; Dyes

Overview

This standard is about interpreting information, adopting safe, healthy and environmentally responsible work practices, selecting and using materials, components, tools and equipment and installing and testing new wall ties/fixings in existing structures and removing and/or isolating existing wall ties

This standard is for people working in the occupational area of insulation and building treatments and can be used by operatives, supervisors and managers

COSVR447

Install wall ties in existing structures

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

COSVR447

Install wall ties in existing structures

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**

Install wall ties in existing structures

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

Install wall ties in existing structures

Additional Information

Scope/range related to performance criteria

Performance Criteria 1

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

Performance Criteria 2

- 2 avoidance of risk by complying with the given information relating the following
 - 2.1 methods of work
 - 2.2 safe use of health and safety control equipment
 - 2.3 safe use of access equipment and work platforms
 - 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 minimise 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 measure, mark out, fit, finish, position and secure
- 8 use and maintain hand tools, portable power tools and ancillary equipment
- 9 install and test wall ties/fixings in existing structures to given working instructions, relating to at least two of the following systems
 - 9.1 driven
 - 9.2 grouted
 - 9.3 resin
 - 9.4 mechanical

Performance Criteria 6

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

Install wall ties in existing structures

Scope/range related to knowledge and understanding

Disposal of waste

- 1 environmental responsibilities, organisational procedures, manufacturers' information and data sheets, 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
 - 2.2 emergencies relating to occupational activities

Hazards

- 3 those identified by risk assessment, method of work, manufacturers' technical information and data sheets, 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)
 - 4.4 local exhaust ventilation (LEV)

Information

- 5 drawings, specifications, schedules, method statements, risk assessments, manufacturers' information and data sheets, and current regulations governing buildings

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/storage of materials and by manual handling and mechanical lifting

Maintenance

- 7 operative/technician care of hand tools, portable power tools and ancillary equipment

Install wall ties in existing structures

Methods of work

- 8 application of knowledge for safe and healthy and environmental work practices, procedures and skills relating to the method/area of work and materials used to
 - 8.1 carry out pre and post installation checks
 - 8.2 install driven, grouted, resin and mechanical wall tie/fixing systems into existing stone, concrete, masonry, brick, block, timber and manufactured unit structures
 - 8.3 understand the implications of existing guarantees and warranties
 - 8.4 understand the implications of existing cavity wall insulation
 - 8.5 test pull wall ties
 - 8.6 remove existing defective wall ties
 - 8.7 isolate existing defective wall ties
 - 8.8 recognise when specialist skills and knowledge are required and report accordingly
 - 8.9 recognise specific requirements for structures of special interest, traditional construction (pre 1919) and historical significance
 - 8.10 use hand tools, portable power tools and equipment
 - 8.11 work at height
 - 8.12 use access equipment and work platforms
- 9 team work and communication
- 10 needs of other occupations associated with installing wall ties in existing structures

Problems

- 11 those arising from information, resources, methods of work and building conditions
 - 11.1 own authority to rectify
 - 11.2 organisational reporting procedures

Programme

- 12 types of progress charts, timetables and estimated times
- 13 organisational procedures for reporting circumstances which will affect the work programme

COSVR447

Install wall ties in existing structures

Protect work

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

Resources

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

15.1 ties, fixings, fittings, resins and grouts

15.2 hand tools, portable power tools and equipment

16 methods of calculating quantity, length, area and wastage associated with the method/procedure to install wall ties in existing structures

Security procedures

17 site, workplace, vehicles, company and operative/technician

COSVR447

Install wall ties in existing structures

Developed by ConstructionSkills

Version number 3

Date approved December 2014

Indicative review date December 2019

Validity Current

Status Original

Originating organisation ConstructionSkills

Original URN COSVR447

Relevant occupations Construction Operatives

Suite Insulation and Building Treatments (Construction); Super-structure Work Occupations (Construction)

Key words Wall ties; Driven systems; Resin systems; Grouted systems; Mechanical systems

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 and installing external wall insulation

This standard is for people working in the occupational area of insulation and building treatments and can be used by operatives, supervisors and managers

COSVR448

Install external wall insulation

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

COSVR448

Install external wall insulation

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**

COSVR448

Install external wall insulation

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

COSVR448

Install external wall insulation

Additional Information

Scope/range related to performance criteria

Performance Criteria 1

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

Performance Criteria 2

12 avoidance of risk by complying with the given information relating to the following

12.1 methods of work

12.2 safe use of health and safety control equipment

12.3 safe use of access equipment and work platforms

12.4 safe use, storage and handling of materials, tools and equipment

12.5 specific risks to health

Performance Criteria 3

13 selection of resources associated with own work

13.1 materials, components and fixings

13.2 tools and equipment

Performance Criteria 4

14 protection of the work and its surrounding area from damage

15 minimise damage and maintain a clean work space

16 disposal of waste in accordance with current legislation

Performance Criteria 5

17 demonstration of work skills to remove, measure, mark out, fit, fill, finish, position and secure

18 use and maintain hand tools, portable power tools and ancillary equipment

19 prepare and install external wall insulation to given working instructions, relating to at least one of the following

19.1 pre-finished insulation systems/methods

19.2 non-finished insulation systems/methods

20 carry out pre and post installation checks

Performance Criteria 6

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

Install external wall insulation

Scope/range related to knowledge and understanding

Disposal of waste

- 1 environmental responsibilities, organisational procedures, manufacturers' information and data sheets, 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
 - 2.2 emergencies relating to occupational activities

Hazards

- 3 those identified by risk assessment, method of work, manufacturers' technical information and data sheets, 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)
 - 4.4 local exhaust ventilation (LEV)

Information

- 5 drawings, specifications, schedules, method statements, risk assessments, manufacturers' information and data sheets, and current regulations governing buildings

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/storage of materials and by manual handling and mechanical lifting

Maintenance

- 7 operative/technician care of hand tools, portable power tools and ancillary equipment

Install external wall insulation

Methods of work

- 8 application of knowledge for safe, healthy and environmental work practices, procedures and skills relating to the method/area of work and materials used to
 - 8.1 carry out external and internal pre-installation checks: level, plumb, structural integrity, dampness, vents, services (gas, electric, water, media cables)
 - 8.2 recognise the procedures to check flues and combustion air ventilation
 - 8.3 understand the implications of existing guarantees and warranties
 - 8.4 confirm condition of substrate for installation
 - 8.5 remove existing defective surface finishes
 - 8.6 install pre-finished or non-finished insulation systems/methods to all surface areas including door and window reveals
 - 8.7 minimise the effects of thermal bridging
 - 8.8 make good existing surface finishes
 - 8.9 reinstate ancillary wall fixtures (downpipes, fences, handrails)
 - 8.10 provide temporary protective covers to work areas
 - 8.11 apply treatments to existing walls
 - 8.12 cut and fix pre-formed trims
 - 8.13 cut and fix mounting blocks
 - 8.14 cut, line, level, drill and fix tracks, beads, shims, joints, cills
 - 8.15 complete post installation checks: compliance with specifications, water penetration, anchorage/fixing, vents, services (gas, electric, water, media cables)
 - 8.16 install vapour control/airtightness layers where appropriate
 - 8.17 recognise when specialist skills and knowledge are required and report accordingly
 - 8.18 recognise specific requirements for structures of special interest, traditional (pre 1919) and historical significance
 - 8.19 use hand tools, portable power tools and equipment
 - 8.20 work at height
 - 8.21 use access equipment and work platforms
- 9 team work and communication
- 10 needs of other occupations associated with the installation of external wall insulation

Install external wall insulation

Problems

- 11 those arising from information, resources, methods of work and building conditions
 - 11.1 own authority to rectify
 - 11.2 organisational reporting procedures

Programme

- 12 types of progress charts, timetables and estimated times
- 13 organisational procedures for reporting circumstances which will affect the work programme

Protect work

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

Resources

- 15 materials, components and equipment relating to types, quantity, quality, sizes and the sustainability of standard and/or specialist
 - 15.1 insulation materials, tracks, adhesives, sealants, mechanical fixing components, pre-formed trims, tracks and shims, beads, joints and cills
 - 15.2 vapour control/airtightness layers
 - 15.3 hand tools, portable power tools and equipment
- 16 methods of calculating quantity, length, area and wastage associated with the method/procedure to install external wall insulation

Security procedures

- 17 site, workplace, vehicles, company and operative/technician

COSVR448

Install external wall insulation

Developed by ConstructionSkills

Version number 3

Date approved December 2014

Indicative review date December 2019

Validity Current

Status Original

Originating organisation ConstructionSkills

Original URN COSVR448

Relevant occupations Construction Operatives

Suite Insulation and Building Treatments (Construction)

Key words Pre-finished installation; Non-finished installation; Pre-installation checks; Vapour control

Overview

This standard is about interpreting information, adopting safe, healthy and environmentally responsible work practices, selecting and using materials, components, tools and equipment and applying dash finishes, proprietary precast finishes, corner and surface beads, renders, paint finishes and brick slips to previously installed external wall insulation

This standard is for people working in the occupational area of insulation and building treatments and can be used by operatives, supervisors and managers

COSVR449

Apply surface finishes to external wall insulation

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

COSVR449

Apply surface finishes to external wall insulation

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**

Apply surface finishes to external wall insulation

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

Apply surface finishes to external wall insulation

Additional Information

Scope/range related to performance criteria

Performance Criteria 1

- 1 interpretation of drawings, specifications, schedules, method statements, risk assessments, manufacturers' information and data sheets 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 and work platforms
 - 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 minimise 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 measure, mark out, mix, apply and fit
- 8 use and maintain hand tools, portable power tools and ancillary equipment
- 9 application of base coats, reinforcing mesh and stress patches
- 10 application of finishes to external wall insulation to given working instructions, relating to at least two of the following
 - 10.1 dash finishes
 - 10.2 synthetic or non-synthetic renders
 - 10.3 proprietary pre-cast finishes
 - 10.4 paint finishes
 - 10.5 corner and surface beads
 - 10.6 brick slips
 - 10.7 brick effect render
- 11 carry out pre and post installation checks

COSVR449

Apply surface finishes to external wall insulation

Performance Criteria 6

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

Apply surface finishes to external wall insulation

Scope/range related to knowledge and understanding

Disposal of waste

- 1 environmental responsibilities, organisational procedures, manufacturers' information and data sheets, 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
 - 2.2 emergencies relating to occupational activities

Hazards

- 3 those identified by risk assessment, method of work, manufacturers' technical information and data sheets, 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)
 - 4.4 local exhaust ventilation (LEV)

Information

- 5 drawings, specifications, schedules, method statements, risk assessments, manufacturers' information and data sheets, and current regulations governing buildings

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/storage of materials and by manual handling and mechanical lifting

Maintenance

- 7 operative/technician care of hand tools, portable power tools and ancillary equipment

Apply surface finishes to external wall insulation

Methods of work

- 8 application of knowledge for safe and healthy and environmental work practices, procedures and skills relating to the method/area of work and materials used to
 - 8.1 carry out pre-installation checks to include structural integrity, dampness, vents, services (gas, electric, water, media cables)
 - 8.2 recognise the procedures to check flues and combustion air ventilation
 - 8.3 understand the implications of existing guarantees and warranties
 - 8.4 apply dash finishes, synthetic and non-synthetic renders, proprietary pre-cast finishes, paint finishes, brick slips, brick effect render and sealants to previously installed external wall surface insulation including door and window reveals
 - 8.5 minimise the effects of thermal bridging
 - 8.6 fix corner and surface beads
 - 8.7 apply base coats, reinforcing mesh and stress patches
 - 8.8 complete post installation checks: compliance with specifications, resistance to water penetration, anchorage/fixing, vents, services (gas, electric, water, media cables)
 - 8.9 carry out any maintenance and repair after installation
 - 8.10 recognise when specialist skills and knowledge are required and report accordingly
 - 8.11 recognise specific requirements for structures of special interest, traditional construction (pre 1919) and historical significance
 - 8.12 use hand tools, portable power tools and equipment
 - 8.13 work at height
 - 8.14 use access equipment and work platforms
- 9 team work and communication
- 10 needs of other occupations associated with applying surface finishes to external wall insulation

Problems

- 11 those arising from information, resources, methods of work and building conditions
 - 11.1 own authority to rectify
 - 11.2 organisational reporting procedures

Apply surface finishes to external wall insulation

Programme

- 12 types of progress charts, timetables and estimated times
- 13 organisational procedures for reporting circumstances which will affect the work programme

Protect work

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

Resources

- 15 materials, components and equipment relating to types, quantity, quality, sizes and the sustainability of standard and/or specialist
 - 15.1 dash finishes, proprietary pre-cast finishes, paints, beads, reinforcement, stress patches, brick slips, renders, sealants, fixings and fittings
 - 15.2 hand tools, portable power tools and equipment
- 16 methods of calculating quantity, length, area and wastage associated with the method/procedure to apply surface finishes to external wall insulation

Security procedures

- 17 site, workplace, vehicles, company and operative/technician

COSVR449

Apply surface finishes to external wall insulation

Developed by ConstructionSkills

Version number 3

Date approved December 2014

Indicative review date December 2019

Validity Current

Status Original

Originating organisation ConstructionSkills

Original URN COSVR449

Relevant occupations Construction Operatives

Suite Insulation and Building Treatments (Construction)

Key words Dash; Proprietary pre-cast; Synthetic render; Paint finishes; Insulation, Pre-cast; Brick slips; Brick effect; Reinforcing mesh

COSVR450

Install cavity wall insulation



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 and installing cavity wall insulation

This standard is for people working in the occupational area of insulation and building treatments and can be used by operatives, supervisors and managers

COSVR450

Install cavity wall insulation

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

COSVR450

Install cavity wall insulation

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**

COSVR450

Install cavity wall insulation

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

COSVR450

Install cavity wall insulation

Additional Information

Scope/range related to performance criteria

Performance Criteria 1

- 1 interpretation of drawings, specifications, schedules, method statements, risk assessments, manufacturers' information and data sheets 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 and work platforms
 - 2.4 safe use, storage and handling of materials, tools and equipment
 - 2.5 operative maintenance of installation equipment
 - 2.6 specific risks to health

Performance Criteria 3

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

Performance Criteria 4

- 4 protection of the work and its surrounding area from damage
- 5 minimise 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 measure, mark out, calibrate, drill, fit and fill
- 8 use and maintain hand tools, portable power tools, installation equipment and ancillary equipment
- 9 prepare for and install cavity wall insulation to given working instructions
- 10 carry pre and post installation checks

Performance Criteria 6

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

Install cavity wall insulation

Scope/range related to knowledge and understanding

Disposal of waste

- 1 environmental responsibilities, organisational procedures, manufacturers' information and data sheets, 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
 - 2.2 emergencies relating to occupational activities

Hazards

- 3 those identified by risk assessment, method of work, manufacturers' technical information and data sheets, 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)
 - 4.4 local exhaust ventilation (LEV)

Information

- 5 drawings, specifications, schedules, method statements, risk assessments, manufacturers' information and data sheets, and current regulations governing buildings

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/storage of materials and by manual handling and mechanical lifting

Maintenance

- 7 operative/technician care of hand tools, portable power tools and installation and ancillary equipment

Install cavity wall insulation

Methods of work

- 8 application of knowledge for safe and healthy and environmental work practices, procedures and skills relating to the method/area of work and materials used to
 - 8.1 carry out external and internal pre-installation checks to include structural integrity, dampness, exposure ratings, vents, services (gas, electric, water, media cables)
 - 8.2 understand the implications of existing guarantees and warranties
 - 8.3 install cavity wall insulation from inside and outside of a building including lance techniques
 - 8.4 identify insulation materials and their characteristics
 - 8.5 ensure pre-installation material checks are within specified parameters
 - 8.6 assemble, operate, clean and disassemble installation processing equipment
 - 8.7 calibrate equipment to measure density, flow and quality tests
 - 8.8 drill holes to patterns
 - 8.9 fit cavity barriers
 - 8.10 fill holes with matching and suitable materials
 - 8.11 complete post installation checks
 - 8.12 check construction ventilation, flues, chimneys and combustion air ventilators pre and post installation
 - 8.13 recognise when specialist skills and knowledge are required and report accordingly
 - 8.14 recognise specific requirements for structures of special interest, traditional construction (pre 1919), hard-to-treat buildings and historical significance
 - 8.15 use hand tools, portable power tools and installation/ancillary equipment
 - 8.16 work at height
 - 8.17 use access equipment and work platforms
- 9 team work and communication
- 10 needs of other occupations associated with the installation of cavity wall insulation

COSVR450

Install cavity wall insulation

Problems

- 11 those arising from information, resources, methods of work and building conditions
 - 11.1 own authority to rectify
 - 11.2 organisational reporting procedures

Programme

- 12 types of progress charts, timetables and estimated times
- 13 organisational procedures for reporting circumstances which will affect the work programme

Protect work

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

Resources

- 15 materials, components and equipment relating to types, quantity, quality, sizes and the sustainability of standard and/or specialist
 - 15.1 protective sheeting, warning signs, temporary barriers, airway sleeves, cavity barriers, mortar mix, insulation
 - 15.2 hand tools, portable power tools and installation equipment
- 16 methods of calculating quantity, density, area and wastage associated with the method/procedure to install cavity wall insulation

Security procedures

- 17 site, workplace, vehicles, company and operative/technician

COSVR450

Install cavity wall insulation

Developed by ConstructionSkills

Version number 3

Date approved December 2014

Indicative review date December 2019

Validity Current

Status Original

Originating organisation ConstructionSkills

Original URN COSVR450

Relevant occupations Construction Operatives

Suite Insulation and Building Treatments (Construction)

Key words Cavity barriers; Flues; Airways; Sleeves; Calibrate

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 and installing injected/blown, placed, mechanically or adhesively fixed, and sprayed insulation to cold roofs and insulation to access hatches, pipes, tanks and cylinders in roof areas

This standard is for people working in the occupational area of insulation and building treatments and can be used by operatives, supervisors and managers

COSVR451

Install insulation to cold roofs

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

COSVR451

Install insulation to cold roofs

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**

COSVR451

Install insulation to cold roofs

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

COSVR451

Install insulation to cold roofs

Additional Information

Scope/range related to performance criteria

Performance Criteria 1

- 1 interpretation of drawings, specifications, schedules, method statements, risk assessments, manufacturers' information and data sheets 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 and work platforms
 - 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 minimise damage and maintain a clean work space
- 6 disposal of waste in accordance with current legislation

COSVR451

Install insulation to cold roofs

Performance Criteria 5

- 7 demonstration of work skills to measure, mark out, calculate, cut, fit, position and secure
- 8 use and maintain hand tools, installation equipment, portable power tools and ancillary equipment
- 9 prepare and install insulation to cold roofs using at least two of the following methods in compliance with current regulations and to given work instructions
 - 17.1 injected/blown
 - 17.2 placed
 - 17.3 mechanically or adhesively fixed
 - 17.4 sprayed
- 10 prepare and install insulation to the following in compliance with current regulations and to given working instructions
 - 17.5 pipes
 - 17.6 tanks and/or cylinders
 - 17.7 access hatches
- 11 carry out pre and post installation checks

Performance Criteria 6

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

Install insulation to cold roofs

Scope/range related to knowledge and understanding

Disposal of waste

- 1 environmental responsibilities, organisational procedures, manufacturers' information and data sheets, 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
 - 2.2 emergencies relating to occupational activities

Hazards

- 3 those identified by risk assessment, method of work, manufacturers' technical information and data sheets, 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)
 - 4.4 local exhaust ventilation (LEV)

Information

- 5 drawings, specifications, schedules, method statements, risk assessments, manufacturers' information and data sheets, and current regulations governing buildings

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/storage of materials and by manual handling and mechanical lifting

Maintenance

- 7 operative/technician care of hand tools, portable power tools, installation process equipment and ancillary equipment

Install insulation to cold roofs

Methods of work

- 8 application of knowledge for safe and healthy and environmental work practices, procedures and skills relating to the method/area of work and materials used to
 - 8.1 understand the implications of existing guarantees and warranties
 - 8.2 recognise the procedures to check flues and combustion air ventilation
 - 8.3 protect access routes
 - 8.4 remove obstructions and store
 - 8.5 remove unwanted insulation from roof area
 - 8.6 carry out pre-installation checks to include common infestations, protected species, structural integrity, dampness, vents, services (gas, electric water, media cables)
 - 8.7 check adequacy of ventilation and increase if required
 - 8.8 recognise the potential risk of increased condensation following installation relating to roof coverings (pitched and flat) and roof structures (timber, metal, concrete)
 - 8.9 ensure all work to services (gas, electric, water, media cables) is carried out by suitable qualified people
 - 8.10 check for hidden utilities
 - 8.11 identify insulation materials and their characteristics for cold roofs, pipes, storage tanks, cylinders and access hatches
 - 8.12 prepare and install injected/blown, placed, mechanically or adhesively fixed and sprayed insulation to cold roofs
 - 8.13 minimise the effects of thermal bridging
 - 8.14 insulate up to and under existing walkway boards
 - 8.15 check serviceability and provision of walkway boards
 - 8.16 prepare and fix pipe, tank and cylinder insulation
 - 8.17 ensure the insulation is contained within the prescribed areas
 - 8.18 insulate downlighters to the required specification
 - 8.19 ensure insulation around electrical apparatus will not create fire hazards (light fittings and cables)
 - 8.20 restrict or reduce unwanted heat loss (down lights and other fittings)
 - 8.21 maintain fire resistant barriers where appropriate
 - 8.22 insulate access hatches
 - 8.23 provide advice to preserve the integrity of the insulation (insulation data sheet and warning labels)

continued ...

COSVR451

Install insulation to cold roofs

Continued

- 8.24 recognise when specialist skills and knowledge are required and report accordingly
- 8.25 recognise specific requirements for structures of special interest, traditional construction (pre 1919) and historical significance
- 8.26 use hand tools, installation equipment, portable power tools and ancillary equipment
- 8.27 work at height
- 8.28 work in confined spaces
- 8.29 use access equipment and work platforms
- 9 team work and communication
- 10 needs of other occupations associated with installing insulation to cold roofs

Problems

- 11 those arising from information, resources, methods of work and building conditions
 - 11.1 own authority to rectify
 - 11.2 organisational reporting procedures

Programme

- 12 types of progress charts, timetables and estimated times
- 13 organisational procedures for reporting circumstances which will affect the work programme

Protect work

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

Resources

- 15 materials, components and equipment relating to types, quantity, quality, sizes and the sustainability of standard and/or specialist
 - 15.1 insulation, pipe insulation, tank and cylinder jackets, fixings and ancillary items
 - 15.2 hand tools, installation equipment, portable power tools and ancillary equipment
- 16 methods of calculating quantity, length, depth, area and wastage associated with the method/procedure to install loft insulation

Security procedures

- 17 site, workplace, vehicles, company and operative/technician

COSVR451

Install insulation to cold roofs

Developed by ConstructionSkills

Version number 3

Date approved December 2014

Indicative review date December 2019

Validity Current

Status Original

Originating organisation ConstructionSkills

Original URN COSVR451

Relevant occupations Construction Operatives

Suite Insulation and Building Treatments (Construction)

Key words Rigid; Quilt; Injected; Blown; Sprayed; Pipe insulation; Tank; Cylinder; Access hatch

Overview

This standard is about interpreting information, adopting safe, healthy and environmentally responsible work practices, selecting and using materials, components, tools and equipment and installing draught-proofing to doors, windows and access hatches

This standard is for people working in the occupational area of insulation and building treatments and can be used by operatives, supervisors and managers

COSVR452

Install draught-proofing to openings

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

COSVR452

Install draught-proofing to openings

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**

Install draught-proofing to openings

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

Install draught-proofing to openings

Additional Information

Scope/range related to performance criteria

Performance Criteria 1

- 1 interpretation of drawings, specifications, schedules, method statements, risk assessments, manufacturers' information and data sheets 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 and work platforms
 - 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, systems and fixings
 - 3.2 tools and equipment

Performance Criteria 4

- 4 protection of the work and its surrounding area from damage
- 5 minimise 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 measure, mark out, fit, remove, position and secure
- 8 use and maintain hand tools, portable power tools and ancillary equipment
- 9 installation of draught-proofing to given working instructions to the following openings
 - 9.1 external and internal doors
 - 9.2 windows
 - 9.3 access hatches
- 10 carry out pre and post installation checks

Performance Criteria 6

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

Install draught-proofing to openings

Scope/range related to knowledge and understanding

Disposal of waste

- 1 environmental responsibilities, organisational procedures, manufacturers' information and data sheets, 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
 - 2.2 emergencies relating to occupational activities

Hazards

- 3 those identified by risk assessment, method of work, manufacturers' technical information and data sheets, 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)
 - 4.4 local exhaust ventilation (LEV)

Information

- 5 drawings, specifications, schedules, method statements, risk assessments, manufacturers' information and data sheets and current regulations governing buildings

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/storage of materials and by manual handling and mechanical lifting

Maintenance

- 7 operative/technician care of hand tools, portable power tools and ancillary equipment

Install draught-proofing to openings

Methods of work

- 8 application of knowledge for safe and healthy and environmental work practices, procedures and skills relating to the method/area of work and materials used to
 - 8.1 understand the implications of existing guarantees and warranties
 - 8.2 carry out pre-installation checks to include structural integrity, dampness, vents, condensation, services (gas, electric water, media cables)
 - 8.3 remove existing draught-proofing
 - 8.4 degrease and clean surfaces
 - 8.5 install draught-proofing to external and internal doors, windows, access hatches
 - 8.6 apply mastic seals
 - 8.7 apply injected draught-proofing to voids when replacing doors and window frames
 - 8.8 complete post installation checks
 - 8.9 report any repair requirements
 - 8.10 recognise when specialist skills and knowledge are required and report accordingly
 - 8.11 recognise specific requirements for structures of special interest, traditional build (pre 1919) and historical significance
 - 8.12 use hand tools, portable power tools and ancillary equipment
 - 8.13 work at height
 - 8.14 use access equipment and work platforms
- 9 team work and communication
- 10 needs of other occupations associated with the installation of draught-proofing to openings

Problems

- 11 those arising from information, resources, methods of work and building
 - 11.1 own authority to rectify
 - 11.2 organisational reporting procedures

Install draught-proofing to openings

Programme

- 12 types of progress charts, timetables and estimated times
- 13 organisational procedures for reporting circumstances which will affect the work programme

Protect work

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

Resources

- 15 materials, components and equipment relating to types, quantity, quality, sizes and the sustainability of standard and/or specialist
 - 15.1 cleaning agents, draught-proofing, mastic sealants, fixings, fittings as appropriate to the method of draught-proofing
 - 15.2 hand tools, portable power tools and ancillary equipment
- 16 methods of calculating quantity, length, area and wastage associated with the method/procedure to install draught-proofing to openings

Security procedures

- 17 site, workplace, vehicles, company and operative/technician

COSVR452

Install draught-proofing to openings

Developed by ConstructionSkills

Version number 3

Date approved December 2014

Indicative review date December 2019

Validity Current

Status Original

Originating organisation ConstructionSkills

Original URN COSVR452

Relevant occupations Construction Operatives

Suite Insulation and Building Treatments (Construction)

Key words Doors; Windows; Access hatches; Mastic sealant; Cleaning agent

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 and installing injected/blown, placed, mechanically or adhesively fixed and sprayed insulation to walls

This standard is for people working in the occupational area of insulation and building treatments and can be used by operatives, supervisors and managers

COSVR644

Install internal insulation to 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

COSVR644

Install internal insulation to walls

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**

Install internal insulation to walls

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

Install internal insulation to walls

Additional Information

Scope/range related to performance criteria

Performance Criteria 1

- 1 interpretation of drawings, specifications, schedules, method statements, risk assessments, manufacturers' information and data sheets 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 and work platforms

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 minimise 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 measure, mark out, cut, fit, finish, position, seal and secure

- 8 use and maintain hand tools, portable power tools and ancillary equipment

- 9 prepare and install insulation to internal walls using at least two of the following methods to given working instructions

9.1 injected/blown

9.2 placed

9.3 mechanically or adhesively fixed

9.4 sprayed

- 10 carry out pre and post installation checks

Performance Criteria 6

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

Install internal insulation to walls

Scope/range related to knowledge and understanding

Disposal of waste

- 1 environmental responsibilities, organisational procedures, manufacturers' information and data sheets, 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
 - 2.2 emergencies relating to occupational activities

Hazards

- 3 those identified by risk assessment, method of work, suppliers' technical information and data sheets, 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)
 - 4.4 local exhaust ventilation (LEV)

Information

- 5 drawings, specifications, schedules, method statements, risk assessments, suppliers' information and data sheets, and current regulations governing buildings

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/storage of materials and by manual handling and mechanical lifting

Maintenance

- 7 operative/technician care of hand tools, portable power tools and ancillary equipment

Install internal insulation to walls

Methods of work

- 8 application of knowledge for safe, healthy and environmental work practices, procedures and skills relating to the method/area of work and materials used to
 - 8.1 understand the implications of existing guarantees and warranties
 - 8.2 carry out pre-installation checks to include structural integrity, dampness, vents, services (gas, electric, water, media cables)
 - 8.3 check for hidden utilities
 - 8.4 protect and reinstate existing fixtures and fittings (carpets)
 - 8.5 recognise the procedures to check flues and combustion air ventilation
 - 8.6 prepare walls for insulation
 - 8.7 ensure all work to services (gas, electric, water, media cables) is carried out by suitably qualified people
 - 8.8 remove and replace/reinstate skirting, coving and cornices
 - 8.9 construct independent or semi-independent frames or straps to walls to contain or hold insulation
 - 8.10 fit mechanically or adhesively fixed insulation
 - 8.11 install injected/blown, placed and sprayed insulation
 - 8.12 fit insulated plasterboard (drylining) on straps by adhesive and mechanical fasteners
 - 8.13 restrict or reduce unwanted heat loss
 - 8.14 ensure the integrity of vapour control/airtightness layer where appropriate
 - 8.15 minimise the effects of thermal bridging
 - 8.16 maintain fire resistant barriers
 - 8.17 maintain sound-proofing where appropriate
 - 8.18 seal joints, perimeters and penetrations
 - 8.19 complete post installation checks
 - 8.20 recognise when specialist skills and knowledge are required and report accordingly
 - 8.21 recognise specific requirements for structures of special interest, traditional construction (pre 1919) and historical significance

continued ...

Install internal insulation to walls

8.22 use hand tools, portable power tools and ancillary equipment

8.23 work at height

8.24 use access equipment and work platforms

9 team work and communication

10 needs of other occupations associated with installing internal insulation to walls

Problems

11 those arising from information, resources, methods of work and building conditions

11.1 own authority to rectify

11.2 organisational reporting procedures

Programme

12 types of progress charts, timetables and estimated times

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

Protect work

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

Resources

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

15.1 insulation systems, internal insulation materials

15.2 hand tools, portable power tools and ancillary equipment

16 methods of calculating quantity, length, thickness, area and wastage associated with the method/procedure to install internal insulation to walls

Security procedures

17 site, workplace, vehicles, company and operative/technician

COSVR644

Install internal insulation to walls

Developed by ConstructionSkills

Version number 3

Date approved December 2014

Indicative review date December 2019

Validity Current

Status Original

Originating organisation ConstructionSkills

Original URN COSVR644

Relevant occupations Construction Operatives

Suite Insulation and Building Treatments (Construction)

Key words Insulation systems, Sprayed insulation; Mechanically fixed; Adhesively fixed

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 for and installing injected/blown, placed, mechanically or adhesively fixed and sprayed insulation to roof, floor, wall and ceiling structures of contained frame and open framed components (including loft conversions or building extensions)

This standard is for people working in the occupational area of insulation and building treatments and can be used by operatives, supervisors and managers

COSVR645

Install insulation to framed sections of buildings

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

COSVR645

Install insulation to framed sections of buildings

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**

Install insulation to framed sections of buildings

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

Install insulation to framed sections of buildings

Additional Information

Scope/range related to performance criteria

Performance Criteria 1

- 1 interpretation of drawings, specifications, schedules, method statements, risk assessments and suppliers' information and data sheets 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 and work platforms
 - 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 minimise 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 measure, mark out, calibrate, fit, fill, position and secure
- 8 use and maintain hand tools, portable power tools, installation equipment and ancillary equipment
- 9 install or maintain the integrity of the vapour control/airtightness layer as appropriate
- 10 prepare for and install insulation to framed sections of roof, floor, wall or ceiling structures, contained frame or open frame, to given working instructions, using at least one of the following methods
 - 10.1 injected/blown
 - 10.2 placed
 - 10.3 mechanically or adhesively fixed
 - 10.4 sprayed
- 11 carry out pre and post installation checks

COSVR645

Install insulation to framed sections of buildings

Performance Criteria 6

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

Install insulation to framed sections of buildings

Scope/range related to knowledge and understanding

Disposal of waste

- 1 environmental responsibilities, organisational procedures, manufacturers' information and data sheets, 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
 - 2.2 emergencies relating to occupational activities

Hazards

- 3 those identified by risk assessment, method of work, suppliers' technical information and data sheets, 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)
 - 4.4 local exhaust ventilation (LEV)

Information

- 5 drawings, specifications, schedules, method statements, risk assessments, suppliers' information and data sheets and current regulations governing buildings

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/storage of materials and by manual handling and mechanical lifting

Maintenance

- 7 operative/technician care of hand tools, portable power tools and installation and ancillary equipment

Install insulation to framed sections of buildings

Methods of work

- 8 application of knowledge for safe and healthy and environmental work practices, procedures and skills relating to the method/area of work and materials used to
 - 8.1 understand the implications of existing guarantees and warranties
 - 8.2 carry out pre-installation checks to include structural integrity, dampness, vents, services, (gas, electric, water, media cables)
 - 8.3 recognise the procedures to check flues and combustion air ventilation
 - 8.4 check framed structures are suitable for insulation
 - 8.5 remove existing wall lining
 - 8.6 protect and reinstate existing fixtures and fittings (carpets)
 - 8.7 check for hidden utilities
 - 8.8 install injected/blown, placed, mechanically or adhesively fixed and sprayed insulation to framed sections, roof, floor, wall or ceiling structures of contained and open framed components
 - 8.9 identify insulation materials and their characteristics
 - 8.10 assemble, operate, clean and disassemble installation processing equipment
 - 8.11 calibrate equipment to measure density, flow and quality tests
 - 8.12 make and drill holes to patterns for injection points
 - 8.13 fill holes
 - 8.14 seal joints, perimeters and penetrations
 - 8.15 maintain the integrity of the vapour control/airtightness layer
 - 8.16 minimise the effects of thermal bridging
 - 8.17 carry out post installation checks
 - 8.18 recognise when specialist skills and knowledge are required and report accordingly
 - 8.19 recognise specific requirements for structures of special interest, traditional construction (pre 1919) and historical significance
 - 8.20 use hand tools, portable power tools and installation/ancillary equipment
 - 8.21 work at height
 - 8.22 use access equipment and work platforms
- 9 team work and communication

Install insulation to framed sections of buildings

10 needs of other occupations associated with the installation of framed sections of buildings

Problems

11 those arising from information, resources, methods of work and building conditions

11.1 own authority to rectify

11.2 organisational reporting procedures

Programme

12 types of progress charts, timetables and estimated times

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

Protect work

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

Resources

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

15.1 protective sheeting, warning signs, temporary barriers

15.2 insulation materials, filling materials

15.3 installation equipment

15.4 hand tools, portable power tools and ancillary equipment

16 methods of calculating quantity, length, area and wastage associated with the method/procedure to install insulation to framed sections of buildings

Security procedures

17 site, workplace, vehicles, company and operative/technician

COSVR645

Install insulation to framed sections of buildings

Developed by ConstructionSkills

Version number 3

Date approved December 2014

Indicative review date December 2019

Validity Current

Status Original

Originating organisation ConstructionSkills

Original URN COSVR645

Relevant occupations Construction Operatives

Suite Insulation and Building Treatments (Construction)

Key words Contained frame; Open frame; Blown insulation; Injected insulation; Sprayed insulation

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 and installing injected/blown, placed, mechanically or adhesively fixed and sprayed insulation to warm roofs

This standard is for people working in the occupational area of insulation and building treatments and can be used by operatives, supervisors and managers

COSVR748

Install insulation to warm roofs

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

COSVR748

Install insulation to warm roofs

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 working practices to meet current **legislation and official guidance**

COSVR748

Install insulation to warm roofs

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

Install insulation to warm roofs

Additional Information

Scope/range related to performance criteria

Performance Criteria 1

- 1 interpretation of drawings, specifications, schedules, method statements, risk assessments and manufacturers' information and data sheets 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 and work platforms
 - 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 and components
 - 3.2 tools and equipment

Performance Criteria 4

- 4 protection of the work and its surrounding area from damage
- 5 minimise 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 measure, mark out, cut, fit, finish, position, seal, fix, and secure
- 8 use and maintain hand tools, portable power tools and ancillary equipment
- 9 prepare and install insulation to the plane of the roof pitch to given working instructions using at least one of the following methods
 - 9.1 injected/blown
 - 9.2 placed
 - 9.3 mechanically or adhesively fixed
 - 9.4 sprayed
- 10 carry out pre and post installation checks

Performance Criteria 6

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

Install insulation to warm roofs

Scope/range related to knowledge and understanding

Disposal of waste

- 1 environmental responsibilities, organisational procedures, manufacturers' information and data sheets, 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
 - 2.2 emergencies relating to occupational activities

Hazards

- 3 those identified by risk assessment, method of work, manufacturers' technical information and data sheets, 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)
 - 4.4 local exhaust ventilation (LEV)

Information

- 5 drawings, specifications, schedules, method statements, risk assessments, manufacturers' information and data sheets, and current regulations governing buildings

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/storage of materials and by manual handling and mechanical lifting

Maintenance

- 7 operative/technician care of hand tools, portable power tools, installation equipment and ancillary equipment

Install insulation to warm roofs

Methods of work

- 8 application of knowledge for safe, healthy and environmental work practices, procedures and skills relating to the method/area of work and materials used to
 - 8.1 understand the implications of existing guarantees and warranties
 - 8.2 recognise the procedures to check flues and combustion air ventilation
 - 8.3 carry out pre-installation checks to include structural integrity, dampness, vents, services, (gas, electric, water, media cables)
 - 8.4 protect access routes
 - 8.5 remove obstructions and store
 - 8.6 remove unwanted insulation from roof area
 - 8.7 ensure all work to services (gas, electric, water, media cables) is carried out by suitably qualified people
 - 8.8 check for hidden utilities
 - 8.9 identify insulation materials and their characteristics
 - 8.10 install injected/blown, placed, mechanically or adhesively fixed and sprayed insulation to warm roofs
 - 8.11 restrict or reduce unwanted heat loss
 - 8.12 ensure the integrity of vapour control/airtightness layers where appropriate
 - 8.13 ensure adequate ventilation above and below insulation
 - 8.14 recognise the potential risk of increased condensation following installation relating to roof coverings (pitched and flat) and roof structures (timber, metal, concrete)
 - 8.15 maintain fire resistant barriers where appropriate
 - 8.16 assemble, operate, clean and disassemble installation processing equipment
 - 8.17 calibrate equipment to measure density, flow and quality tests
 - 8.18 seal joints, perimeters and penetrations
 - 8.19 minimise the effects of thermal bridging
 - 8.20 complete post installation checks
 - 8.21 recognise when specialist skills and knowledge are required and report accordingly

continued ...

COSVR748

Install insulation to warm roofs

- 8.22 recognise specific requirements for structures of special interest, traditional construction (pre 1919) and historical significance
- 8.23 use hand tools, portable power tools and installation/ancillary equipment
- 8.24 work at height
- 8.25 work in confined spaces
- 8.26 use access equipment and work platforms
- 9 team work and communication
- 10 needs of other occupations associated with the installation of insulation to warm roofs

Problems

- 11 those arising from information, resources, methods of work and building conditions
 - 11.1 own authority to rectify
 - 11.2 organisational reporting procedures

Programme

- 12 types of progress charts, timetables and estimated times
- 13 organisational procedures for reporting circumstances which will affect the work programme

Protect work

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

Resources

- 15 materials, components and equipment relating to types, quantity, quality, sizes and the sustainability of standard and/or specialist
 - 15.1 insulation materials, filling materials, vapour control/airtightness layers
 - 15.2 installation equipment
 - 15.3 hand tools, portable power tools and ancillary equipment
- 16 methods of calculating quantity, length, area and wastage associated with the method/procedure to install insulation to warm roofs

Security procedures

- 17 site, workplace, vehicles, company and operative/technician

COSVR748

Install insulation to warm roofs

Developed by ConstructionSkills

Version number 1

Date approved December 2014

Indicative review date December 2019

Validity Current

Status Original

Originating organisation ConstructionSkills

Original URN VR748

Relevant occupations Construction Operatives

Suite Insulation and Building Treatments (Construction)

Key words Injected; Blown; Mechanically fixed; Adhesively fixed; Sprayed; Vapour control; Airtightness layer

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 and installing injected /blown, placed, mechanically or adhesively fixed, and sprayed insulation to suspended or solid floors

This standard is for people working in the occupational area of insulation and building treatments and can be used by operatives, supervisors and managers

COSVR749

Install insulation to floors

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

COSVR749

Install insulation to floors

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 working practices to meet current **legislation and official guidance**

Install insulation to floors

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

Install insulation to floors

Additional Information

Scope/range related to performance criteria

Performance Criteria 1

- 1 interpretation of drawings, specifications, schedules, method statements, risk assessments and manufacturers' information and data sheets 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 and work platforms
 - 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 minimise 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 measure, mark out, level, cut, fit, finish, position, seal, fix and secure
- 8 use and maintain hand tools, portable power tools and ancillary equipment
- 9 prepare and install insulation to suspended or solid floors using at least one of the following methods to given working instructions
 - 9.1 injected/blown
 - 9.2 placed
 - 9.3 mechanically/adhesively fixed
 - 9.4 sprayed
- 10 carry out pre and post installation checks

Performance Criteria 6

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

Install insulation to floors

Scope/range related to knowledge and understanding

Disposal of waste

- 1 environmental responsibilities, organisational procedures, manufacturers' information and data sheets, 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
 - 2.2 emergencies relating to occupational activities

Hazards

- 3 those identified by risk assessment, method of work, manufacturers' technical information and data sheets, 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)
 - 4.4 local exhaust ventilation (LEV)

Information

- 5 drawings, specifications, schedules, method statements, risk assessments, manufacturers' information and data sheets, and current regulations governing buildings

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/storage of materials and by manual handling and mechanical lifting

Maintenance

- 7 operative/technician care of hand tools, portable power tools, installation and ancillary equipment

Install insulation to floors

Methods of work

- 8 application of knowledge for safe, healthy and environmental work practices, procedures and skills relating to the method/area of work and materials used to
 - 8.1 understand the implications of existing guarantees and warranties
 - 8.2 recognise the procedures to check flues and combustion air ventilation
 - 8.3 carry out pre-installation checks to include structural integrity, dampness, vents, services (gas, electric, water, media cables)
 - 8.4 recognise the potential risk of increased condensation following installation relating to suspended floors
 - 8.5 prepare floor for insulation
 - 8.6 ensure all work to services (gas, electric, water) is carried out by suitably qualified people
 - 8.7 remove and reinstate floorcoverings
 - 8.8 check for hidden utilities
 - 8.9 identify insulation materials and their characteristics
 - 8.10 maintain integrity of damp-proof membranes and gas membranes
 - 8.11 install injected/blown, placed, mechanically or adhesively fixed, and sprayed insulation to suspended and solid floors
 - 8.12 restrict or reduce unwanted heat loss
 - 8.13 ensure the integrity of vapour control/airtightness layers where appropriate
 - 8.14 ensure adequate ventilation above and below insulation
 - 8.15 maintain sound-proofing where appropriate
 - 8.16 maintain fire resistant barriers where appropriate
 - 8.17 assemble, operate, clean and disassemble installation processing equipment
 - 8.18 calibrate equipment to measure density, flow and quality tests
 - 8.19 seal joints, perimeters and penetrations
 - 8.20 minimise the effects of thermal bridging
 - 8.21 complete post installation checks

continued ...

Install insulation to floors

- 8.22 recognise when specialist skills and knowledge are required and report accordingly
- 8.23 recognise specific requirements for structures of special interest, traditional construction (pre 1919) and historical significance
- 8.24 use hand tools, portable power tools and installation/ancillary equipment
- 8.25 work at height
- 8.26 use access equipment and work platforms
- 9 team work and communication
- 10 needs of other occupations associated with installing insulation to floors

Problems

- 11 those arising from information, resources and methods of work and building conditions
 - 11.1 own authority to rectify
 - 11.2 organisational reporting procedures

Programme

- 12 types of progress charts, timetables and estimated times
- 13 organisational procedures for reporting circumstances which will affect the work programme

Protect work

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

Resources

- 15 materials, components and equipment relating to types, quantity, quality, sizes and the sustainability of standard and/or specialist
 - 15.1 protective sheeting, warning signs, temporary barriers
 - 15.2 insulation materials, filling materials, vapour control/airtightness layers
 - 15.3 installation equipment
 - 15.4 hand tools, portable power tools and ancillary equipment
- 16 methods of calculating quantity, length, area and wastage associated with the method/procedure to install insulation to floors

Security procedures

- 17 site, workplace, vehicles, company and operative/technician

COSVR749

Install insulation to floors

Developed by ConstructionSkills

Version number 1

Date approved November 2014

Indicative review date November 2019

Validity Current

Status Original

Originating organisation ConstructionSkills

Original URN VR749

Relevant occupations Construction Operatives

Suite Insulation and Building Treatments (Construction)

Key words Injected; Blown; Mechanically fixed; Adhesively fixed; Sprayed; Insulation materials; Vapour control; Airtightness layer