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Health and Safety Executive

Asbestos essentials

A task manual for building, maintenance and allied trades on non-licensed asbestos work



EVERY JOB SBESTOS BUILDIN n Ш ũ

6



Can you avoid disturbing asbestos by doing the job in some other way?

Do you need a license for the work?



Follow the task guidance sheet.

Use an asbestos waste container.

Take asbestos waste to a licensed disposal site.

Caution:

Don't sweep up dust or debris - use a Class H vacuum cleaner or damp rags.

Don't take used overalls home.

Don't re-use disposable PPE.

Don't smoke.

Don't eat or drink in the work area.

Minimise dust:



Keep materials damp - not too wet



Use hand tools -not power tools



Clean up as you go - use a special vacuum cleaner, (class H) not a brush



Double-bag asbestos waste and label the bags properly

Wear:

Suitable disposable overalls and boots without laces, or disposable boot covers

If you take a break:

Don't smoke, eat or drink in the work area

When you finish work:

Decontaminate yourself - wipe down your overalls with a damp rag and remove them before removing your mask.









Health and Safety Executive

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This guidance is issued by the Health and Safety Executive. Following the guidance is not compulsory and you are free to take other action. But if you do follow the guidance you will normally be doing enough to comply with the law. Health and safety inspectors seek to secure compliance with the law and may refer to this guidance as illustrating good practice.

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Introduction: Advice to managers and sole traders on Asbestos essentials



Asbestos-related disease

Disturbing asbestoscontaining material can release invisible fibres. Once in the air, fibres can be breathed in and cause lung diseases including:

mesothelioma - a cancer of the linings to the lungs and stomach;

lung cancer; and

asbestosis - lung scarring.

There are no sudden changes in health after breathing in fibres - these diseases can take from 15 to 60 years to develop. They are incurable and often fatal. You need to protect yourself now to prevent an asbestos-related disease in the future. This book is aimed at workers in the construction, maintenance, refurbishment and related trades, who may come into contact with asbestos-containing materials in their work. *Asbestos essentials* will help workers in these trades when they are working with asbestos-containing materials.

Most work with asbestos-containing materials, including lagging, insulation and insulating board, must be done by an HSE-licensed contractor.

Asbestos essentials covers work that does not need a licence, if carried out as the sheets describe. Each sheet describes 'good practice' for a particular task and covers the action needed to reduce exposure to an adequate level.

What is asbestos and why is it a problem?

Large amounts of asbestos were used in new and refurbished buildings before 2000. Usage began to decline in the 1970s and blue asbestos (crocidolite) had a voluntary ban in 1970. Blue and brown (amosite) asbestos were banned by law in 1985. Uses of white asbestos (chrysotile) were banned in 1999. Everything else, and most second-hand supply (except for very high performance materials) was banned by 2000.

A large number of premises still contain some form of asbestos. Workers most likely to come into contact with asbestos-containing products are those in the construction, maintenance, refurbishment and related trades.



Some trades likely to disturb asbestos

Anyone who works on the fabric of a building is at risk of disturbing asbestos. This includes:

electricians, joiners, plumbers, gas fitters, shop fitters, heating and ventilation engineers;

labourers, roofers, plasterers, demolition workers and other workers in construction;

phone and data engineers, alarm installers; and

surveyors, general maintenance engineers, painters and decorators.





When asbestos materials are damaged or disturbed they can release dangerous fibres which, if breathed in, can cause serious diseases. Around 4000 people in Great Britain die every year from asbestos-related diseases, making asbestos the single greatest cause of work-related deaths.

Who this manual is for, and how to use it

This manual will help small businesses, sub-contractors and the self-employed comply with the Control of Asbestos Regulations 2006. It will also help dutyholders, clients, trade union and employee safety representatives understand how work should be done.

The premises owner (client or dutyholder) needs to tell you where any asbestos-containing materials (or materials presumed to contain asbestos) that you are likely to meet are. *Asbestos essentials* provides the information you need to help you recognise asbestos and protect yourself, containing:

a series of 38 task sheets with full colour images, illustrations and step-by-step guidance. It is important to follow all the actions in a task sheet, or use equally effective measures. Following the sheets will help reduce the risk of ill health from asbestos;

equipment and method (em) sheets with extra guidance on getting the right tools for the job and how to use them. Each task sheet has a list of em sheets you must read before you start that task;

a flow chart to help you decide if you can carry out the work or you need to use an HSE-licensed contractor - see page 4;

a detailed illustration of an 'asbestos building' showing some of the most common places asbestos is likely to be found - see the fold-out front cover:

a safety checklist to help you make sure you haven't forgotten anything - see the inside front cover;

'More help' - a list of places to look for further information - see inside back cover.

Does the work need a licence?

Normally, non-licensed work includes work on asbestoscontaining textured coatings, asbestos cement and certain work of 'short duration' on asbestos insulating board.

'Short duration' means any one person doing this type of work for less than one hour, or more people doing the work for a total of less than two hours, in any seven consecutive days. The total time spent by all workers must not exceed two hours. This includes time spent setting up, cleaning and clearing up.

Licensed work Don't touch this!



Broken asbestos insulating board, asbestos lagging and sprayed asbestos (limpet)

Non-licensed work. Do this if you are trained









Decision flow chart

Use this simple flow chart to help you decide who needs to do the work.



OTHER HAZARDS

Other specific hazards appear in the checklist on each Asbestos essentials task sheet. They include:

Work on fragile roofs - see www.hse.gov.uk/construction/ information.htm. Fragile roofs cannot bear weight.

Work at height - see www. hse.gov.uk/falls/index.htm. Take precautions to avoid falls. Must you work from a ladder? Where necessary, erect an access platform.

Electrical hazards - see www.hse.gov.uk/electricity/ index.htm. Get a competent electrician to isolate and reconnect the electricity supply.

Manual handling - see www.hse.gov.uk/msd/index. htm. Plan how to remove and handle heavy material and articles safely.

Slips and trips - see

www.hse.gov.uk/slips/index. htm. Floors protected with polythene become very slippery when wet.

Confined spaces - see www.hse.gov.uk/ confinedspace/index.htm. You need to know that restricted workplaces are safe to enter and the air is fit to breathe.

There may be other hazards - you need to consider them all.

What you need to do

Planning

If you are working on non-domestic premises, the manager of the premises has responsibility for protecting people who work there - see www.hse.gov.uk/asbestos/campaign/ duty.htm. Ask to see a plan and check what asbestos is present. If you are unsure, assume any material you need to disturb does contain asbestos. The client also needs to see your plan of work to understand what work you are going to do, and how.

Before carrying out any work:

ask the premises owners for their records of asbestos; what was checked, what was found, and what was not checked;

if there is no record and you have reason to suspect asbestos, ask for an asbestos survey to be done before accepting the contract;

check if the work could require a licence - see 'More help';

when a licence is not needed for the work, follow the task sheets or other HSE guidance;

if there is no task sheet for the work, get help from a competent health and safety advisor;

when you seek advice, ensure that the person providing that advice is competent; and

if asbestos-containing material needs replacement, the replacement must be asbestos-free.

Prepare a plan of work. Make sure it includes the following:

what the work is, and how long it is likely to last; the address and description of the job;

when the work will be done;

the procedures to follow to reduce exposure and prevent the spread of asbestos;

the equipment needed, including personal protective equipment (PPE);

decontamination and waste disposal arrangements; and emergency procedures.

See *equipment and method (em)* sheets for useful advice to help you prepare this plan.

Make sure that everyone involved is fully aware of the plan and knows:

what they need to do; why each action is being taken; and what to do in the case of emergencies and accidents.

Disposal of asbestos materials and waste

'Hazardous' or 'Special' waste needs safe disposal. This includes:

asbestos; materials containing asbestos; and anything contaminated with asbestos, unless fully decontaminated.

Make sure you double-bag and label asbestos waste.

For advice on disposal contact the Local Authority, the Environment Agency or, if based in Scotland, SEPA. Or hire a licensed waste contractor - see 'More help' and em9.



Danger sign



Asbestos label



Double-bagged waste

CAUTION

Emergency call-out is no excuse for low standards or cutting corners.

Asbestos fibres are more likely to be released if the following happens:

asbestos-containing materials are not identified before work starts;

work is poorly planned or badly carried out;

you work on dry asbestos-containing materials;

you use power tools or saws;

you sweep up asbestos-containing debris.

Asbestos-containing materials may be left in place, as long as they do not and will not put anyone at risk of exposure to asbestos fibres.

Key points

You need training to work safely with asbestos-containing materials - see sheet em2.

Asbestos essentials does not apply to licensed work.

Only go ahead if you are sure the work does not require a licence.

Work with, or disturbance of, any type of asbestoscontaining material can be dangerous.

Second-hand equipment may not be asbestos-free.

If you work on asbestos-containing materials and you smoke, you are at much greater risk of lung cancer.

Consider those around you. Don't put your workmates in danger or take fibres home on your clothes and put your family at risk.

Carry out the work and dispose of contaminated materials safely.

em1 asbestos essentials

Non-licensed tasks

Asbestos isn't always obvious. Would you spot an asbestos gasket on an old engine, asbestos cement pipes or an asbestos-containing fuse board? If you're not sure, the premises owner needs to get it checked out!

There are three 'colours' of asbestos, but you can't tell just by the colour what you have found; it could be mixed with other ingredients which change its appearance.

Remember:

Asbestos fibres can cause lung cancer and lung diseases.

Check what you're working on before you start.

Read the safety checklist.



What to do if you uncover or damage materials that may contain asbestos

Equipment and method sheet

What this sheet covers

This sheet shows some examples of where you can find asbestos. A chart describes what to do if you find asbestos materials during a job.

It also applies where asbestos materials get damaged by accident.

Procedures

Stop this work immediately.

Follow the chart on the opposite page or do a risk assessment to decide who must do the work - you may need a licensed contractor.

Minimise the spread of contamination to other areas. Keep exposures as low as you can.

Clean up the contamination.









Top row: An asbestos gasket, asbestos cement pipes and an asbestos-containing fuse board Bottom row: The asbestos cement pipes are labelled, so are the tiles, but you might not know until you start to lift them. There could be sprayed limpet under the asbestos cement (AC) sheeting



Asbestos insulating board (AIB) fire surround



Don't assume there will always be warning signs. There could be undiscovered asbestos in buildings you work on



Asbestos sticks in your lungs. The younger you are, the longer it remains to cause damage

em2 asbestos essentials

Non-licensed tasks

Asbestos fibres can cause lung cancer and lung diseases.

Read the safety checklist. You must be trained to work safely with asbestos materials.

Young workers are at special risk due to lack of experience.

INFORMATION

Contact Infoline for information on training providers - see 'More help'.

Information for others

Tell all other workers that may be nearby what you are doing, where and why.

Tell them about other risks from the work, eg changes in fire exits.

Training

Equipment and method sheet

What this sheet covers

People that carry out any work on asbestos materials must be trained and supervised properly. You need training even if you worked with asbestos in the past.

Training, supervision and information

Training must include detailed information on:

- recognising asbestos;
- how asbestos can affect your health;
- the added dangers of smoking;
- the uses and likely locations for asbestos in buildings;
- what work you are allowed to do by law;
- what the law requires you to do;
- what methods to use;
- what equipment you need to do the job properly;
- how to choose, use and look after personal protective equipment;
- recognising and dealing with other dangers, such as work at height;
- decontamination of yourself and work areas;
- emergency procedures; and
- waste disposal.
- Refresher training is needed every year, or more often if:
- work methods change;
- the type of equipment used changes; or
- the type of work changes a lot.

Supervise the task - make sure workers follow the rules.

em3 asbestos essentials

Non-licensed tasks

Asbestos fibres can cause lung cancer and lung diseases.

Plan carefully - do you need an HSE licence to do this work?



CAUTION

Never use duct tape or spray adhesive on AIB. This will cause damage during dismantling.

Building and dismantling a mini-enclosure

Equipment and method sheet

What this sheet covers

This sheet describes how to build a mini-enclosure. It applies to minor work with asbestos insulating board (AIB).

It does not apply to building full enclosures for work that must be carried out by an HSE-licensed contractor.

Caution: A 'mini-enclosure' only prevents asbestos spreading. It does not prevent or control exposures while you are doing the task.

Equipment

A proprietary 'mini-enclosure', or a home-made 'minienclosure' using 1000-gauge polythene sheeting, duct tape and masking tape, and timber or other materials for the frame.

Smoke tubes.

Sealant, eg Polyvinyl acetate (PVA).

Garden type sprayer.

Bucket of water.

Rags for wiping.

Class H vacuum cleaner (BS EN 60335) - see sheet em4. Asbestos waste container, eg labelled polythene sack.

Preparing the work area

Ensure safe access.

Close doors. Use warning tape or notices to alert other people.



Test the enclosure for leaks with a smoke test



Put the equipment you need inside the enclosure before you start

INFORMATION

Information for others

Tell all other workers that may be nearby what you are doing, where and why.

Tell them about other risks from the work, eg changes in fire exits.

Building the enclosure

Where possible, use a proprietary mini-enclosure as these are quicker and easier to erect - see 'More help'. Alternatively, use timber or other materials to build a frame.

Make the enclosure large enough to do the work safely. Attach the polythene sheeting inside the frame with duct tape. This minimises cleaning.

Attach the polythene sheeting to the ceiling with masking tape only. Attach it to non-asbestos surfaces with duct tape.

Make an entry slit in one wall of the enclosure and reinforce this with duct tape.

Attach a polythene sheet above the entry slit, to cover it. Check all enclosures for leaks with smoke tubes. Release smoke at the seals inside the enclosure. Someone else must check for leaks outside. Seal all leaks.

Put all tools for the task - bucket of water, rags, sprayer, vacuum cleaner nozzle and hose, etc inside the enclosure.

Enclosure dismantling

Work carefully - prevent asbestos escaping. Clean the enclosed area with the Class H vacuum cleaner.

Clean the equipment and polythene sheeting with damp rags.

Decontaminate yourself - see sheet em8.

Inspect the enclosure visually - is it properly clean? Spray the polythene sheeting with PVA sealant.

Remove the sheeting from the framework and put it in the asbestos waste container.

Remove your protective equipment and dispose of it. Tape the container closed. Put it in a clear bag with an asbestos sign.

If the framework is clean and was fully protected, you can re-use it.

em4 asbestos essentials

Non-licensed tasks

Remember:

Asbestos fibres can cause lung cancer and lung diseases.

Check that the vacuum cleaner is in good working order before you start.

Using a Class H vacuum cleaner for asbestos

Equipment and method sheet

What this sheet covers

This sheet describes the Class H vacuum cleaner, how to use it to minimise asbestos fibres released during a task, and how to use it to clean contaminated items.

The cleaner must comply with British Standards.

Never use domestic vacuum cleaners, even those fitted with HEPA (high efficiency particle arrestor) filters.





The brush attachment is useful for cleaning protective clothing that might otherwise tear. Decontaminate it after use and bag it for next time



Vacuum clean carefully. It is easy to disturb asbestos fibres, make them airborne and breathe them in

Equipment

You can hire a Class H vacuum cleaner with a range of attachments; look up 'asbestos safety equipment hire' on the internet, or see 'More help'.

Ensure hired cleaners are clean and in good working order on receipt.

The hire company should thoroughly examine and test the cleaner at least once every six months. They need to be licensed by HSE to do this.

Procedures

Vacuuming

Pick up bigger pieces of debris and put them in a suitable waste container.

Vacuum carefully. It is easy to disturb asbestos fibres, make them airborne and breathe them in.

Wet material can damage the HEPA filter.

Clean floors, carpets and fabrics with the adjustable floor attachment.

Clean areas of limited access with the tapered attachment.

Clean solid surfaces such as desk tops with the flat attachment.

Check for damage after use.

CAUTION

Avoid using brush attachments for area cleaning. Brushes are difficult to clean properly.



Control measures: Shadow vacuuming and plastic enclosures used as local extraction

Used as a control measure: Dust extraction

You can use the Class H vacuum cleaner to control asbestos fibres 'at source', eg:

- shadow vacuuming: hold the nozzle close to the task (eg screw removal); and
- local dust extraction at the cutting point: enclose the tool (eg drill bit) with a cowl and attach the nozzle.

Possible problems

Reduced suction:

- you have a long extension cable, resulting in low supply voltage;
- the waste container is full; or
- the hose has blocked. Clearing it can release asbestos; clear it carefully or get help from the hire company.

Emptying and cleaning

Follow the hire company's instructions for waste disposal. Never clean inside the vacuum cleaner yourself. After each use, clean the vacuum cleaner's outer casing and attachments with the vacuum and then with damp rags.

Inspect the case, hose and attachments visually. Keep the hose and attachments in a labelled plastic sack. Replace the sealing cap over the hose opening in the cleaner's casing.

CAUTION

You, and other people, will be exposed to high levels of asbestos fibres if you fail to take the proper precautions.

British Standards

You should only hire a Class H vacuum cleaner that conforms to the following standards. For more information on British Standards, see 'More help'.

BS EN 60335-2-69:2003 Specification for safety of household and similar electrical appliances. Particular requirements for wet and dry vacuum cleaners, including power brush, for industrial and commercial use Publicly available specification, PAS 60-3:2004 Equipment used in the controlled removal of asbestos-containing materials. Operation, cleaning and maintenance of class H vacuum cleaners. Code of practice



There are many makes of Class H vacuum cleaner. Hire one from a licensed hire company and follow all the instructions. Make sure it conforms to BS EN 60335-2-69:2003 and PAS 60-3:2004



Non-licensed tasks

Wetting asbestos materials

Equipment and method sheet

What this sheet covers

This sheet explains why you must wet asbestos materials before working on them, and how to do this.

The spraying technique can also be used when painting or sealing asbestos materials.

Damp asbestos materials release far fewer asbestos fibres into the air. Don't drench them and create a waste 'slurry'.

Electrical equipment in the area needs to be isolated and protected.

Equipment

Wetting agent - for suppliers, see 'More help', or you could use liquid detergent as an alternative. Sprayer, either a garden type spray or a low pressure spraying machine less than 3.4 bar (50 psi). Brush or roller.

Procedures

Wet the asbestos materials before starting any work. Don't work on dry asbestos materials.

Wetting agents make work easier. Note, blue and brown asbestos don't absorb water easily.

Some asbestos materials - eg board, sheet - cannot be wetted all the way through. So, you need other methods to control dust exposure, eg a Class H vacuum cleaner.

CAUTION

Some tasks will be carried out at height. Make sure that wetting does not create a slipping risk.



Spray at low pressure; high pressure spray could disturb fibres from asbestos paper under these tiles



Sometimes it may be easier to wet the area using a brush or roller



Over-wetting the material creates a waste slurry which will be difficult to clean up

Vacuuming up very wet material will damage the cleaner's $\ensuremath{\mathsf{HEPA}}$ filter.

Wetting

Spraying is the preferred wetting method. If you use a brush or roller, dispose of it as asbestos waste.

Dilute the wetting agent with water according to the manufacturer's instructions. This is usually:

- 10-15 parts water to 1 part wetting agent; or
- 8 parts water to 1 part liquid detergent.

Allow the spray to 'fall' onto the asbestos material, not hit it as a jet.

Spray carefully; use a slow backwards and forwards motion. Avoid concentrating on any one area - this can disturb the asbestos material or leave dry patches.



em6 asbestos essentials

Non-licensed tasks



Make sure you use the right PPE for the task

Personal protective equipment (PPE)



Equipment and method sheet

What this sheet covers

This sheet describes what personal protective equipment (PPE) you need.

It also describes respiratory protective equipment (RPE).

PPE and RPE are your last lines of defence against asbestos fibres. Follow the methods in the task guidance sheets to avoid fibres being released into the air.

Overalls

Disposable overalls. Type 5 (BS EN ISO 13982-1) are suitable. Cotton overalls hold dust and need specialist laundering.

You may need waterproof overalls for outdoor work.

Wear one size too big - this will help to prevent ripping at the seams.

If the cuffs are loose, seal them with tape.

Avoid wearing a long-sleeved shirt - these are difficult to cover properly.

Wear the overall legs over footwear. Tucking them in lets dust into footwear.

Wear the hood over the RPE straps.

Dispose of used overalls as asbestos waste.

Gloves

If you wear protective gloves, use single-use disposable gloves. If you must use latex gloves, use only 'low protein powder-free' gloves.



If you must use latex gloves, use only 'low protein powder-free' gloves



A 'dust mask' doubled up for more protection is useless. You need a respirator

CAUTION

Never use laced boots, these are very difficult to clean properly.

Never take used overalls home.

Dispose of used gloves as asbestos waste.

Footwear

Boots are preferable to disposable overshoes which cause a slipping risk.

Respiratory protective equipment (RPE)

Use suitable RPE with an Assigned Protection Factor of 20 or more.

Suitable types of RPE:

- disposable respirator to standards EN149 (type FFP3) or EN1827 (type FMP3);
- half mask respirator (to standard EN140) with P3 filter; or
- semi-disposable respirator (to EN405) with P3 filter. This equipment should be suitable for most short duration non-licensed work. Workers should select a make and size that fits them.

This equipment is not suitable for people with beards or stubble, or for long periods of continuous use; you need powered equipment for such situations.

More information on the selection of suitable RPE is given in HSG247, HSG53 or from suppliers - see 'Further information' on page 23.

Planning and preparation

Plan for and practice emergency procedures. Workers need to be fit tested to make sure that the RPE fits them properly.

Arrange fit testing and training before the work starts, ask the supplier for help or contact BOHS

(www.bohs.org or 01332 298101). Also see 'More help'.

Using RPE

Workers must be medically fit to wear RPE - seek medical advice if you are not sure.

All types of RPE restrict what the wearer can do. It is uncomfortable to wear for long periods.

The RPE has to be worn all the time and until the worker is away from the contaminated air.

Fit and wear the respirator in accordance with the manufacturer's instructions.

Place the straps firmly around the top and back of the head. The respirator should be tight against the face. When using disposable RPE, pinch the top of the respirator over the nose.

Carry out a fit check in accordance with the manufacturer's instructions.

If the worker wears spectacles, they should put them on now. They must not create a gap between the mask and face.

Put the overall hood over the straps.

At the end of the shift, take off RPE last and, if it is disposable, put it in the asbestos waste. If it is any other type, decontaminate, clean and store it properly for the next use.

With half-mask type change filters regularly - your supplier may be able to advise you how often. Dispose of used filters as asbestos waste.

Maintenance of non-disposable equipment

Keep RPE clean and in good working order - follow the manufacturer's instructions.

Inspect and check RPE for damage every time. Carry out thorough checks monthly (or every three months if used infrequently). Inspect all parts including valves and seals. Replace the respirator as appropriate.

Clean RPE after use and store in a safe place away from contamination.



For some tasks, nondisposable RPE is needed

Training

Make sure that RPE users know:

- how to check their equipment is working properly before they put it on;
- how to check that it fits;
- how to identify and replace worn or defective parts; and
- that they know about the limitations of the RPE they are using.

Instruct users to throw away disposable RPE/PPE as asbestos waste after one use.

Tell workers to stop work and leave the area if they think their RPE is not working properly.



Disposable RPE worn incorrectly





Disposable RPE worn correctly

Further information

Asbestos: The licensed contractors' guide HSG247 HSE Books 2006 ISBN 978 0 7176 2874 2 Respiratory protective equipment at work: A practical guide HSG53 (Third edition) HSE Books 2005 ISBN 978 0 7176 2904 6 Fit testing of respiratory protective equipment facepieces HSE Information Operational Circular OC 282/28 www.hse.gov.uk/pubns/fittesting.pdf

CAUTION

Never leave the respirator lying around where it can collect dust. Never dangle the respirator round your neck.

Make sure the correct filter is fitted.



Non-licensed tasks

Using damp rags to clean surfaces of minor asbestos contamination

Equipment and method sheet

What this sheet covers

This sheet explains how to use rags to clean minor asbestos contamination from smooth, non-absorbent surfaces and equipment.

Equipment

Bucket of water. Either cotton rags that do not shed fluff onto clean surfaces, or impregnated rags (eg 'Tak' rags). Adhesive tape, to collect small dust deposits. Asbestos waste container, eg labelled polythene sack.

Procedures

Pick up bigger pieces of debris and put them in a suitable waste container.



Wiping up debris with a damp rag

Rags

Impregnated rags do not need soaking.

Soak the rag in water. Fold in half or quarters. Wring it out.

Wipe the contaminated surface.

Re-fold the rag to give a clean surface.

Repeat until you have used all the clean surfaces of the rag.

Put the used rag in a bag. Get a clean rag, and repeat cleaning until all surfaces are clean.



Re-fold the rag between wiping, and dispose of it once all of its clean surfaces have been used

Таре

Tape is useful only for removing small dust deposits. Surfaces may need repeated tape applications.

Place a strip of tape over the contaminated surface. Peel it off slowly.

Put the used tape in a bag. Repeat with a fresh piece.

Wastes

Put bags of used rags and tape in a suitable asbestos waste container.

Tape the container closed.

If you avoid contaminating the bucket of water, no special precautions are need for water disposal. See sheet em9 for disposal.

CAUTION

Never re-soak a contaminated rag. This contaminates the water.



Non-licensed tasks

Personal decontamination

Equipment and method sheet

What this sheet covers

This sheet describes how to decontaminate yourself after any work with asbestos materials.

Personal decontamination is easier when you wear the correct personal protective equipment (PPE).

You need to decontaminate yourself properly, otherwise you may take asbestos fibres home on your clothing and expose your family and friends.

Procedures

Removing and decontaminating personal protective equipment (PPE)

Clean your boots with damp rags - see sheet em7. Where available, clean your overalls with the brush attachment on a Class H vacuum cleaner. Vacuum off the brush.



Make sure you restrict access



- Caller

'Buddy' cleaning using a Class H vacuum cleaner



With damp rags, use a patting action to avoid disturbing fibres

Otherwise, use damp rags with a 'patting' action. Rubbing can disturb fibres.

Where there are two workers, they can help to clean each other.

Peel off disposable overalls. They should be inside out. Put them in a suitable asbestos waste container.

Bag up re-usable overalls for a specialist laundry. Finally, remove your disposable respirator and place it in the asbestos waste container. Tape the container closed.

Personal decontamination

Can you use site washing facilities? If so, they must be for your use only.

Keep other people out during personal

decontamination, and until you have cleaned the facilities.

Wash every time you leave the work area.

Use damp rags to clean the washing facilities at the end of the job.

Clean the facilities daily if the job lasts more than one day.

Inspect the facilities visually once the job is finished. Clearance air sampling is not normally needed for washing facilities.

em9 asbestos essentials

Non-licensed tasks

CAUTION

Don't overfill bags. Beware sharp objects that could puncture plastic.



Disposal of asbestos waste

Equipment and method sheet

What this sheet covers

This sheet describes good practice when you need to dispose of asbestos waste.

Any asbestos product or material that is ready for disposal is defined as asbestos waste. Asbestos waste also includes contaminated building materials, tools that cannot be decontaminated, personal protective equipment and damp rags used for cleaning. If in doubt, always treat waste as 'Hazardous' or 'Special' - see the table for more details.

You can discharge waste water that may be contaminated with traces of asbestos to the sewage system.



50% H 25 mm

m blastic

All waste should be double-bagged or double-wrapped in plastic sheeting, with the correct hazard warning signs attached
England and Wales	 Asbestos waste is 'Hazardous Waste' when it contains more than 0.1% asbestos. The Hazardous Waste Regulations apply. Complete a Waste Consignment Note. Contact the Environment Agency for more information. 			
Scotland	 Asbestos waste is 'Special Waste' when it contains more than 0.1% asbestos. The Special Waste Amendment (Scotland) Regulations apply. Complete a Waste Consignment Note. Contact the Scottish Environment Protection Agency for more information. 			
England, Scotland and Wales	 All asbestos waste is subject to Schedule 2 of the Control of Asbestos Regulations 2006 and most waste is subject to the Carriage of Dangerous Goods (etc) Regulations 2004 (CDG). Firmly-bound asbestos - asbestos cement and articles with asbestos reinforcement - does not release hazardous or respirable fibres easily. CDG does not apply. The Carriage of Dangerous Goods (etc) Regulations 2004 (CDG) applies for all other asbestos waste - see 'More help'. 			
Caution: Don't mix aspestos waste with other waste to get helew 0.1 %				

Caution: Don't mix asbestos waste with other waste to get below 0.1 %.





Use a lockable skip for asbestos cement sheets. It is not good enough to throw sheeting over a standard skip

Waste must be packed in UN-approved packaging with a CDG hazard sign and asbestos code information visible. Double-wrap and label asbestos waste. Standard practice is to use a red inner bag with asbestos warnings, and a clear outer bag with the CDG sign.

If you carry waste, use a sealed skip, or a vehicle which:

- has a segregated compartment for asbestos;
- is easily cleanable; and
- is lockable.

Otherwise, arrange for transport by a registered waste carrier.

Safe disposal - at a licensed disposal site.

Complete a Waste Consignment Note. Keep copies of these documents for three years.

Further information

Asbestos: The licensed contractors' guide HSG247 HSE Books 2006 ISBN 978 0 7176 2874 2

em10 asbestos essentials

Non-licensed tasks

Statement of cleanliness after textured coating removal

Equipment and method sheet

What this sheet covers

This sheet is intended for trained contractors who remove textured coatings.

It sets out a model statement to issue to the client, premises owner or the occupier.

- After removing textured coating, you need to let the client know the premises are safe to use again.
- Before you do this you need to be sure that textured coating has been removed as agreed, and all debris cleaned up.
- The next page shows an example of a form to give to the client, premises owner or occupier.



Regarding the	removal	of textured	coating from.
rtogurung trio	romovu	or toxtaroa	oouling nom.

		(Location)
		(Address)
		(,
n:		(Date)
he removal work con	sisted of:	
		(Job description)
y:		(Name of contractor)
		(Contractor's address)
have checked that te	xtured coating was removed an	the area was cleaned thoroughly. e were no visible traces of dust or
		(Areas inspected)
am satisfied that the	area can be returned to normal	use.
Signed:	Name:	(capitals)
Date:		

Non-licensed tasks

ESSENTIAL INFORMATION

Also read the following sheets in this book:

em1 (p8) What to do if you uncover or damage materials that may contain asbestos

em2 (p11) Training

em4 (p14) Using a Class H vacuum cleaner for asbestos

em6 (p20) Personal protective equipment (PPE)

em7 (p24) Using damp rags to clean surfaces of minor asbestos contamination

em8(p26) Personal decontamination

em9 (p28) Disposal of asbestos waste

Drilling holes in asbestos insulating board (AIB)

What this sheet covers

This sheet describes good practice when you need to drill into AIB to attach fittings, or to pass through cables or pipework.

This sheet is not appropriate if work lasts more than one hour per week for a worker, or two hours in total for two or more workers; use an HSE-licensed contractor for such work.

Preparing the work area

Ensure safe access.

Restrict access - minimise the number of people present. Close doors. Use tape and notices to warn others. If feasible, also restrict general access to the rear of the AIB.

If this is not possible, warn the building owner that this area is contaminated.

Ensure adequate lighting.

Equipment

500-gauge polythene sheeting and duct tape. Warning tape and notices.

Class H vacuum cleaner (BS EN 60335) - see sheet em4. Drill - manual or powered, set at the lowest speed.

Drill bit, or hole cutter for holes greater than 20 mm diameter.

Plastic enclosure for vacuum cleaner nozzle, to extract around the drill bit.



Drill through paste or foam or use a plastic cowl and a Class H vacuum cleaner. A hand drill creates less dust. If you have to use an electric drill, put it on the slowest setting

Masking tape.

Thick paste, eg wallpaper paste or shaving foam, or a proprietary device to contain drilling debris. Permanent sealant. Plastic or metal sleeve to protect hole edges. Bucket of water and rags. Asbestos waste container, eg labelled polythene sack. Clear polythene sack.

Personal protective equipment (PPE) - see sheet em6 Provide:

- disposable overalls fitted with a hood;
- boots without laces (laced boots are hard to decontaminate); and



- respiratory protective equipment.

Procedure

Protect nearby surfaces from contamination. Cover with 500-gauge polythene sheeting and fix with duct tape to non-asbestos surfaces.

Cover the drilling point and the rear (if accessible) with masking tape to prevent the edges crumbling.

For cable and pipework, make the hole slightly bigger than required.

Work at height - see www.hse.gov.uk/falls/ index.htm. Take precautions to avoid falls. Must you work from a ladder? Where necessary, erect an access platform.

There may be other hazards - you need to consider them all.

Method 1: Drilling 1 to 5 holes up to 20 mm in diameter in board less than 6 mm thick

Cover the drill entry and if accessible, exit points, with a generous amount of paste, foam or a proprietary device.

Drill through the paste, foam or device.

Clean off the paste, foam and debris with damp rags. Or remove the device and clean the surface. Clean the back surface with damp rags, if accessible.

Rags and paste or foam contain dust and fibres. Dispose of as asbestos waste.

Seal the drilled edge with sealant.

Insert a sleeve to protect the hole's edges from cabling, etc.

Method 2: Drilling 6 to 20 holes, or any hole over 20 mm in diameter, or drilling through board more than 6 mm thick.

Place the plastic enclosure over the drill point. Put the drill bit or cutter through the enclosure opening. Attach the Class H vacuum cleaner hose to the plastic

enclosure. Turn it on.

Drill the hole.

Vacuum the drilled hole, and the rear of the board if accessible.

Seal the drilled edge with sealant.

Insert a sleeve to protect the hole's edges.





Control measures: Shadow vacuuming and using plastic enclosures as local extraction



Seal the drilled edge with sealant

Cleaning and disposal

Clean the equipment and the area with the Class H vacuum cleaner and/or damp rags. Put used rags, polythene sheeting and other waste in the asbestos waste container and tape it closed. Put the asbestos waste container in a clear polythene sack and tape it closed. Disposal - see sheet em9.

Personal decontamination

See sheet em8.

Clearance and checking off

Visually inspect the area to make sure that it has been cleaned properly.

Clearance air sampling is not normally required.

Non-licensed tasks

ESSENTIAL INFORMATION

Also read the following sheets in this book:

em1 (p8) What to do if you uncover or damage materials that may contain asbestos

em2 (p11) Training

em3 (p12) Building and dismantling a mini-enclosure

em4 (p14) Using a Class H vacuum cleaner for asbestos

em5 (p18) Wetting asbestos materials

em6 (p20) Personal protective equipment (PPE)

em7 (p24) Using damp rags to clean surfaces of minor asbestos contamination

em8(p26) Personal decontamination

em9 (p28) Disposal of asbestos waste

Removing a single (screwed-in) asbestos insulating board (AIB) ceiling tile

What this sheet covers

This sheet describes good practice when you need to remove a single AIB ceiling tile.

This sheet is not appropriate:

for the removal of AIB slats; where the tile has more than minor damage; where the tile is heavily painted so its removal could damage adjacent tiles; or if work lasts more than one hour per week for a worker, or two hours in total for two or more workers; (this includes time to set up, dismantle and clean the mini-enclosure).

Use an HSE-licensed contractor for such work.

Preparing the work area

Ensure safe access.

Restrict access - minimise the number of people present. Close doors. Use tape and notices to warn others. Ensure adequate lighting.

Equipment

Method 1: 500-gauge polythene sheeting and duct tape. Method 2: use a mini-enclosure if available - if not, use timber or other framework with 1000-gauge polythene sheeting and duct tape - see sheet em3. 1000-gauge polythene sheeting and duct tape.



Protect nearby areas with polythene sheeting or a mini-enclosure. Use shadow vacuuming to control dust when removing screws

Warning tape and notices. Class H vacuum cleaner (BS EN 60335) - see sheet em4. Sealant, eg polyvinyl acetate (PVA). Magnet. Screwdriver. Non-asbestos replacement ceiling tile. Garden-type sprayer containing wetting agent. Bucket of water and rags. Asbestos waste container, eg labelled polythene sack. Clear polythene sack.

Personal protective equipment (PPE) - see sheet em6 Provide:

- disposable overalls fitted with a hood;
- boots without laces (laced boots are hard to decontaminate); and



- respiratory protective equipment.

Method 1: Removing a single ceiling tile less than 0.36 square metres in area (eg 60 cm x 60 cm)

Procedure

Protect nearby surfaces from contamination. Cover with 500-gauge polythene sheeting and fix with duct tape to non-asbestos surfaces.

Removal

Locate steel screws with the magnet. Locate brass screws by careful paint scraping.



Carefully lower one end of the tile. Vacuum its upper surface and spray with PVA. Keep the tile flat and lower it gently

Use 'shadow vacuuming' to control dust - see sheet em4.

Unscrew - put the screws in the waste container. Carefully lower one end of the tile. Vacuum its upper surface.

Spray the upper surface with PVA.

Keep the tile flat and lower it gently.

Place the tile in the asbestos waste container.

If asbestos fillets are present, seal with a sealant.

Fix a new non-asbestos tile by attaching it to a non-asbestos surface, not to asbestos fillets.

Method 2: Removing a single ceiling tile more than 0.36 square metres in area (eg 60 cm x 60 cm)

Procedure

Erect a proprietary 'mini-enclosure', or build one as described in sheet em3.

Removal

Follow the removal instructions for method 1.

Double-wrap the tile in 1000-gauge polythene sheeting.

Work at height - see www.hse.gov.uk/falls/ index.htm. Take precautions to avoid falls. Must you work from a ladder? Where necessary, erect an access platform.

Manual handling - see www.hse.gov.uk/msd/ index.htm. Plan how to remove and handle heavy material and articles safely.

There may be other hazards - you need to consider them all.

Cleaning and disposal

Clean a mini-enclosure with the Class H vacuum cleaner and dismantle it as advised in sheet em3. Clean the area and equipment with the Class H vacuum cleaner and damp rags. Put used rags, polythene sheeting and other waste in the asbestos waste container and tape it closed. Put the asbestos waste container in a clear polythene sack and tape it closed.

Disposal - see sheet em9.

Personal decontamination

See sheet em8.

Clearance and checking off

Visually inspect the area to make sure that it has been cleaned properly.

Clearance air sampling is not normally required.

Non-licensed tasks

ESSENTIAL INFORMATION

Also read the following sheets in this book:

em1 (p8) What to do if you uncover or damage materials that may contain asbestos

em2 (p11) Training

em5 (p18) Wetting asbestos materials

em7 (p24) Using damp rags to clean surfaces of minor asbestos contamination

em8 (p26) Personal decontamination

em9 (p28) Disposal of asbestos waste

Removing a door with asbestos insulating board (AIB) fireproofing

What this sheet covers

This sheet describes good practice when you need to dispose of a door backed with AIB. It is also suitable where AIB is sandwiched within the door.

This sheet is not appropriate:

for the removal of an AIB panel (see sheet a4); or for the disposal of a door with more than minor damage to the AIB.

Use an HSE-licensed contractor for such work.

Preparing the work area

Restrict access - minimise the number of people present. Close doors. Use tape and notices to warn others. Ensure adequate lighting.

Equipment

1000-gauge polythene sheeting and duct tape. Warning tape and notices. Sealant, eg polyvinyl acetate (PVA). Screwdriver. Non-asbestos replacement fire door. Garden-type sprayer containing wetting agent, eg diluted washing-up liquid. Bucket of water and rags. Asbestos waste container, eg labelled polythene sack. Clear polythene sack. Asbestos warning stickers.



Double wrap the door in polythene sheeting with asbestos warning stickers

Personal protective equipment (PPE) Provide:

- disposable overalls fitted with a hood;
- boots without laces (laced boots are hard to decontaminate).
- A respirator is not normally required.

Procedure

If unpainted, spray the board with PVA sealant. If the board is within the door, spray all exposed edges. Allow it to dry.

Lay enough polythene sheeting on the floor to wrap up the door.

Unscrew the door from its hinges and lower it onto the polythene sheet.

Double-wrap the door with polythene sheeting and secure with duct tape.

Attach asbestos warning stickers.

If necessary, fit a replacement door with the same fire protection properties.

Cleaning and disposal

Clean the equipment and area with damp rags. Put debris, used rags, polythene sheeting and other waste in the asbestos waste container and tape it closed. Put the asbestos waste container in a clear polythene sack and tape it closed. Disposal - see sheet em9.

Personal decontamination

See sheet em8.

Clearance and checking off

Visually inspect the area to make sure that it has been cleaned properly.

Clearance air sampling is not normally required. Get the premises owner, dutyholder or client to check off the job.

OTHER HAZARDS

Manual handling - see www.hse.gov.uk/ msd/index.htm. Plan how to remove and handle heavy material and articles safely.

There may be other hazards - you need to consider them all.

Non-licensed tasks

ESSENTIAL INFORMATION

Also read the following sheets in this book:

em1 (p8) What to do if you uncover or damage materials that may contain asbestos

em2(p11) Training

em3 (p12) Building and dismantling a mini-enclosure

em4 (p14) Using a Class H vacuum cleaner for asbestos

em5 (p18) Wetting asbestos materials

em6 (p20) Personal protective equipment (PPE)

em7 (p24) Using damp rags to clean surfaces of minor asbestos contamination

em8(p26) Personal decontamination

em9 (p28) Disposal of asbestos waste

Removing a single asbestos insulation board (AIB) panel, less than 1m², fixed with nails or screws

What this sheet covers

This sheet describes good practice when you need to remove a single AIB sheet less than 1 square metre in area.

This sheet is not appropriate:

when the AIB has more than minor damage or is heavily painted so its removal could damage adjacent panels;

when the AIB is in the form of ceiling tiles or slats; for removing heavily nailed or centre-nailed panels; for soffits;

for a panel larger than 1 square metre; or for removing more than two small panels a week.

Use an HSE-licensed contractor for such work.

Preparing the work area

Ensure safe access.

Restrict access - minimise the number of people present. Close doors. Use tape and notices to warn others. Ensure adequate lighting.

Equipment

500- and 1000-gauge polythene sheeting and duct tape. Warning tape and notices.

Class H vacuum cleaner (BS EN 60335) - see sheet em4. Thick paste, eg wallpaper paste or shaving foam.

CAUTION

if the panel has nails in the centre, the job needs an HSE-licensed contractor.

- Sealant, eg polyvinyl acetate (PVA).
- Permanent sealant.
- Magnet.
- Screwdriver.
- Garden-type sprayer containing wetting agent.
- Paint brush.
- Bucket of water and rags.
- Asbestos waste container, eg labelled polythene sack.
- Asbestos warning stickers.
- Clear polythene sack.

Personal protective equipment (PPE) - see sheet em6 Provide:

Inspect carefully. If the AIB is in good condition and is unlikely to get damaged upon removal, follow this sheet. If the board is badly damaged or likely to get damaged,

- disposable overalls fitted with a hood;
- boots without laces (laced boots are hard to decontaminate); and
- respiratory protective equipment.

use an HSE-licensed contractor.



Use a mini-enclosure if you need to remove a panel fixed with nails

Panel with nails

Procedure

Erect a mini-enclosure - see sheet em3.

If you can remove nails with the claw, do so with 'shadow vacuuming' - see sheet em4.

If this is not possible you need to break the panel across one corner. Cover the intended break line with paste/foam.

Deeply score the panel across one nailed corner through the paste/foam.

Lever to break the panel at the scored line - hold the vacuum nozzle near to the break to collect as much dust as possible.

Ease the panel away to loosen other nails, and remove these with shadow vacuuming.

Remove the panel and vacuum all newly-exposed surfaces.

Panel with screws

Protect nearby surfaces from contamination. Cover with 500-gauge polythene sheeting and fix with duct tape to non-asbestos surfaces.

Locate steel screws with the magnet. Locate brass screws by careful paint scraping.

Use 'shadow vacuuming' to control dust - see sheet em4.

Unscrew - put the screws in the waste container. Ease the panel away. Vacuum its newly-exposed surfaces and screw holes.

All panels

Spray the panel with PVA.

Double-wrap large panels with 1000-gauge polythene sheeting; place smaller boards in the waste container. Attach asbestos warning stickers.

Gently paint newly-exposed surfaces and screw holes with sealant paint.

Cleaning and disposal

Clean any newly-exposed surfaces with the Class H vacuum cleaner.

Clean a mini-enclosure with the Class H vacuum cleaner and dismantle it as advised in sheet em3.



Panel with screws: Use shadow vacuuming to control dust as you remove screws





Panel with nails: If possible, remove nails with a claw and shadow vacuuming. If this is difficult without damaging the board, apply paste to one corner and make a deep score line so you can lever the corner away first

Work at height - see www.hse.gov.uk/falls/ index.htm. Take precautions to avoid falls. Must you work from a ladder? Where necessary, erect an access platform.

Manual handling - see www.hse.gov.uk/msd/ index.htm. Plan how to remove and handle heavy material and articles safely.

There may be other hazards - you need to consider them all. Clean the area and equipment with the Class H vacuum cleaner and damp rags.

Put debris, used rags, polythene sheeting, paintbrush and other waste in the asbestos waste container and tape it closed.

Put the asbestos waste container in a clear polythene sack and tape it closed.

Disposal - see sheet em9.

Personal decontamination

See sheet em8.

Clearance and checking off

Visually inspect the area to make sure that it has been cleaned properly.

Clearance air sampling is not normally required.

Non-licensed tasks

ESSENTIAL INFORMATION

Also read the following sheets in this book:

em1 (p8) What to do if you uncover or damage materials that may contain asbestos

em2(p11) Training

em4 (p14) Using a Class H vacuum cleaner for asbestos

em6 (p20) Personal protective equipment (PPE)

em7 (p24) Using damp rags to clean surfaces of minor asbestos contamination

em8(p26) Personal decontamination

em9 (p28) Disposal of asbestos waste

Cleaning light fittings attached to asbestos insulating board (AIB)

What this sheet covers

This sheet describes good practice when you need to clean a contaminated light fitting attached to AIB, eg to change a bulb or tube.

This sheet is NOT appropriate where the AIB is damaged, or may be damaged eg by 'rocking' the screws during cleaning. Use an HSE-licensed contractor for such work.

See sheet em4 Using a Class H vacuum cleaner for asbestos when removing a screwed in fitting, and sheet a6 for minor damage repair.

Preparing the work area

Ensure safe access.

Restrict access - minimise the number of people present.

Close doors. Use tape and notices to warn others. Ensure adequate lighting.

Equipment

500-gauge polythene sheeting and duct tape. Warning tape and notices.

Class H vacuum cleaner (BS EN 60335) - see sheet em4.

Bucket of water and rags.

Asbestos waste container, eg labelled polythene sack. Clear polythene sack.



Cleaning inside the tube fitting with a Class H vacuum cleaner

OTHER HAZARDS

Work at height - see www.hse.gov.uk/falls/ index.htm. Take precautions to avoid falls. Must you work from a ladder? Where necessary, erect an access platform.

Electrical hazards - see

www.hse.gov.uk/ electricity/index.htm. Get a competent electrician to isolate and reconnect electricity supply.

There may be other hazards - you need to consider them all.

Personal protective equipment (PPE) - see sheet em6 Provide:

- disposable overalls fitted with a hood;
- boots without laces (laced boots are hard to decontaminate); and
- respiratory protective equipment.



Procedure

Isolate the power supply - use a competent electrician. Protect nearby surfaces from contamination. Cover with 500-gauge polythene sheeting and fix with duct tape to non-asbestos surfaces.

Avoid removing the light fitting - this may disturb the AIB. Clean the light fitting exterior with the Class H vacuum cleaner.

Place easily removable sections on the polythene sheeting, for cleaning on the floor.

Open the light fitting carefully. Insert the Class H vacuum cleaner hose, and clean inside the fitting.

Complete the cleaning with the Class H vacuum cleaner.

Cleaning and disposal

Clean the area with damp rags.

Put debris, used rags, polythene sheeting and other waste in the asbestos waste container and tape it closed. Put the asbestos waste container in a clear polythene sack and tape it closed. Disposal - see sheet em9.

Personal decontamination

See sheet em8.

Clearance and checking off

Visually inspect the area to make sure that it has been cleaned properly.

Clearance air sampling is not normally required.

Non-licensed tasks

ESSENTIAL INFORMATION

Also read the following sheets in this book:

em1 (p8) What to do if you uncover or damage materials that may contain asbestos

em2(p11) Training

em6 (p20) Personal protective equipment (PPE)

em7 (p24) Using damp rags to clean surfaces of minor asbestos contamination

em8 (p26) Personal decontamination

em9 (p28) Disposal of asbestos waste



This damaged AIB needs to be covered and protected from further damage

Repairing minor damage to asbestos insulating board (AIB)

What this sheet covers

This sheet describes good practice when you need to repair small areas of damaged AIB, eg a broken corner or scratches.

This sheet is not appropriate:

if work lasts more than one hour per week for a worker, or two hours in total for two or more workers; or where the material is badly damaged.

Use an HSE-licensed contractor for such work.

If AIB is in a position where further damage is likely, see sheet a8.

Preparing the work area

Ensure safe access. Restrict access - minimise the number of people present. Close doors. Use tape and notices to warn others. Ensure adequate lighting.

Equipment

500-gauge polythene sheeting and duct tape. Warning tape and notices. Liquid impact adhesive. Permanent sealant. Non-asbestos covering panel. Garden-type sprayer or small paint brush. Bucket of water and rags. Asbestos waste container, eg labelled polythene sack. Clear polythene sack.



Attach the replacement panel with adhesive



Wipe up dust and debris with a damp rag

Work at height - see www.hse.gov.uk/falls/ index.htm. Take precautions to avoid falls. Must you work from a ladder? Where necessary, erect an access platform.

There may be other hazards - you need to consider them all.

Personal protective equipment (PPE) - see sheet em6 Provide:

- disposable overalls fitted with a hood;
- boots without laces (laced boots are hard to decontaminate); and
- respiratory protective equipment.



Procedure

Protect nearby surfaces from contamination. Cover with 500-gauge polythene sheeting and fix with duct tape to non-asbestos surfaces.

Remove small bits of loose board - use a damp rag. Put these in the waste container.

Paint the damaged area by brush or gentle spraying. After drying, cover gaps with the replacement panel. Attach it with adhesive.

Wipe dusty surfaces with a damp rag.

Cleaning and disposal

Clean the equipment and the area with damp rags. Put debris, used rags, polythene sheeting, paintbrush and other waste in the asbestos waste container and tape it closed.

Also dispose of a used paint brush.

Put the asbestos waste container in a clear polythene sack and tape it closed.

Disposal - see sheet em9.

Personal decontamination

See sheet em8.

Clearance and checking off

Visually inspect the area to make sure that it has been cleaned properly. Clearance air sampling is not normally required.

Non-licensed tasks

ESSENTIAL INFORMATION

Also read the following sheets in this book:

em1 (p8) What to do if you uncover or damage materials that may contain asbestos

em2(p11) Training

em4 (p14) Using a Class H vacuum cleaner for asbestos

em7 (p24) Using damp rags to clean surfaces of minor asbestos contamination

em8(p26) Personal decontamination

em9 (p28) Disposal of asbestos waste

CAUTION

Never prepare surfaces by sanding or rubbing down.

Painting undamaged asbestos insulating board (AIB)

What this sheet covers

This sheet describes good practice when you need to paint undamaged AIB for protection or for decoration.

This sheet is not appropriate where the asbestos material is badly damaged. Use an HSE-licensed contractor for such work.

Preparing the work area

Ensure safe access.

Restrict access - minimise the number of people present. Close doors. Use tape and notices to warn others. Ensure adequate lighting.

Equipment

500-gauge polythene sheeting and duct tape. Warning tape and notices. Class H vacuum cleaner (BS EN 60335) if dust needs to be removed from AIB - see sheet em4. Low-solvent paint. Low-pressure sprayer, brush or roller. Bucket of water and rags. Asbestos waste container, eg labelled polythene sack. Clear polythene sack.



Use low-pressure spraying where possible

Personal protective equipment (PPE) Provide:

- disposable overalls fitted with a hood; and
- boots without laces (laced boots are hard to decontaminate).
 - A respirator is not normally required.

Procedure

Check that there is no damage before starting work; if there is, see sheet a6.

Protect nearby surfaces from contamination. Cover with 500-gauge polythene sheeting and fix with duct tape to non-asbestos surfaces.

Remove dust using the Class H vacuum cleaner. Apply the paint, preferably by low-pressure spraying. Spray using a sweeping motion.

If painting by brush or roller, do so gently and avoid concentrating on one area, to reduce surface damage.

Cleaning and disposal

Clean the equipment and the area with damp rags. Put debris, used rags, polythene sheeting, paintbrush/roller and other waste in the asbestos waste container and tape it closed. Put the asbestos waste container in a clear polythene sack and tape it closed. Disposal - see sheet em9.

Personal decontamination

See sheet em8.

Clearance and checking off

Visually inspect the area to make sure that it has been cleaned properly.

Clearance air sampling is not normally required. Get the premises owner, dutyholder or client to check off the job.

OTHER HAZARDS

Work at height - see www.hse.gov.uk/falls/ index.htm. Take precautions to avoid falls. Must you work from a ladder? Where necessary, erect an access platform.

There may be other hazards - you need to consider them all.

Non-licensed tasks

ESSENTIAL INFORMATION

Also read the following sheets in this book:

em1 (p8) What to do if you uncover or damage materials that may contain asbestos

em2 (p11) Training

em7 (p24) Using damp rags to clean surfaces of minor asbestos contamination

em8 (p26) Personal decontamination

em9 (p28) Disposal of asbestos waste

Enclosing undamaged asbestos materials to prevent impact damage

What this sheet covers

This sheet describes good practice when you need to protect asbestos materials from impact damage, and you do not want to remove them. Examples include:

asbestos insulating board wall panels that could be damaged by trolleys; or lagged pipework running along the bottom of a wall that could be scuffed.

For minor repairs on asbestos insulating board see sheet a6. For minor repairs on asbestos cement see sheet a13. This sheet is not appropriate where the asbestos material is badly damaged or where you disturb the asbestos. Use an HSElicensed contractor for such work.

Preparing the work area

Restrict access - minimise the number of people present. Close doors. Use tape and notices to warn others. Ensure adequate lighting.

Equipment

Warning tape and notices. Liquid impact adhesive. Screwdriver. Nails or screws. Hammer. Non-asbestos board - this may need to meet an original specification, eg fire resistant.



If you have to attach panels to asbestos-containing materials, use impact adhesive



Use non-asbestos boarding to protect asbestos

Work at height - see www.hse.gov.uk/falls/ index.htm. Take precautions to avoid falls. Must you work from a ladder? Where necessary, erect an access platform.

There may be other hazards - you need to consider them all. Bucket of water and rags.

Asbestos waste container, eg labelled polythene sack. Clear polythene sack.

Personal protective equipment (PPE)

Provide:

- disposable overalls fitted with a hood; and
- boots without laces (laced boots are hard to decontaminate).

A respirator is not normally required.

Procedure

Box-in pipework without disturbing the asbestos. Where possible, fix replacement panels to non-asbestos materials - you can use nails or screws.

Use adhesive to attach replacement panels to asbestoscontaining materials.

Seal the cavity and provide adequate fire barriers. Warn the building owner about the presence of asbestoscontaining material, so it can be managed properly.

Cleaning and disposal

Clean the equipment and the area with damp rags. Put debris, used rags and other waste in the asbestos waste container and tape it closed. Put the asbestos waste container in a clear polythene

sack and tape it closed.

Disposal - see sheet em9.

Personal decontamination

See sheet em8.

Clearance and checking oft

Visually inspect the area to make sure that it has been cleaned properly.

Clearance air sampling is not normally required. Get the premises owner, dutyholder or client to check off the job.

Non-licensed tasks

ESSENTIAL INFORMATION

Also read the following sheets in this book:

em1 (p8) What to do if you uncover or damage materials that may contain asbestos

em2(p11) Training

em6 (p20) Personal protective equipment (PPE)

em7 (p24) Using damp rags to clean surfaces of minor asbestos contamination

em8(p26) Personal decontamination

em9 (p28) Disposal of asbestos waste

Drilling holes in asbestos cement (AC) and other highly bonded materials

What this sheet covers

This sheet describes good practice when you need to drill holes in asbestos cement, bitumen products, floor tiles or other highly-bonded materials containing asbestos.

For asbestos insulating board, see sheet a1. For textured coatings, see sheet a26.

Preparing the work area

Ensure safe access.

Restrict access - minimise the number of people present. Close doors. Use tape and notices to warn others. If feasible, also restrict access to the rear of asbestos material. If drilling a roof from outside, segregate the area beneath.

If access to the rear is not possible, warn the building owner that this area is contaminated. Ensure adequate lighting.



Asbestos cement tiles on a roof



Interior floor tiles



Proprietary device to contain drilling debris



Use a hole cutter, for holes greater than 20 mm

Equipment

500-gauge polythene sheeting and duct tape. Warning tape and notices.

Drill - manual or powered, set at the lowest speed. Drill bit, or hole cutter for holes greater than 20 mm diameter.

Masking tape.

Thick paste, eg wallpaper paste or shaving foam, or a proprietary device to contain drilling debris.

Mastic or sealant for gaps.

Plastic or metal sleeve to protect hole edges.

Bucket of water and rags.

Asbestos waste container, eg labelled polythene sack. Clear polythene sack.

Personal protective equipment (PPE) - see sheet em6 Provide:

- disposable overalls fitted with a hood;
- boots without laces (laced boots are hard to decontaminate); and
- respiratory protective equipment.



Procedure

Protect nearby surfaces from contamination. Cover with 500-gauge polythene sheeting and fix with duct tape to non-asbestos surfaces.

Cover the drilling point and the rear (if accessible) with masking tape to prevent the edges crumbling.



Drill through masking tape covered with paste or foam, or use a cowl connected to a Class H vacuum cleaner as local extraction. Seal drilled edges with sealant

For cable and pipework, make the hole slightly bigger than required.

Cover the drill entry and if accessible, exit points, with a generous amount of paste, foam or a proprietary device. Drill through the paste, foam or device.

Clean off the paste, foam and debris with damp rags and remove the making tape. Or remove the device. Clean the surfaces with damp rags.

Rags and paste or foam contain dust and fibres. Dispose of as asbestos waste.

Seal the drilled edge with sealant.

Insert a sleeve to protect the hole's edges from cabling, etc.

Cleaning and disposal

Clean the equipment and the area with damp rags. Put debris, used rags, polythene sheeting, paintbrush and other waste in the asbestos waste container and tape it closed.

Put the asbestos waste container in a clear polythene sack and tape it closed.

Disposal - see sheet em9.

Work at height - see www.hse.gov.uk/falls/ index.htm. Take precautions to avoid falls. Must you work from a ladder? Where necessary, erect an access platform.

Slips and trips - see www.hse.gov.uk/slips/ index.htm. Floors protected with polythene become very slippery when wet.

There may be other hazards - you need to consider them all.

Personal decontamination

See sheet em8.

Clearance and checking off

Visually inspect the area to make sure that it has been cleaned properly.

Clearance air sampling is not normally required.

Non-licensed tasks

ESSENTIAL INFORMATION

Also read the following sheets in this book:

em1 (p8) What to do if you uncover or damage materials that may contain asbestos

em2 (p11) Training

em5 (p18) Wetting asbestos materials

em7 (p24) Using damp rags to clean surfaces of minor asbestos contamination

em8 (p26) Personal decontamination

em9 (p28) Disposal of asbestos waste

CAUTION

AC roofs are always fragile and cannot bear weight.

Cleaning debris from guttering on an asbestos cement (AC) roof

What this sheet covers

This sheet describes good practice when you need to remove debris from guttering.

The guttering may be made of AC, or it may simply collect water from an AC roof.

Preparing the work area

Ensure safe access. Can you do this work from ground-level? Restrict access - minimise the number of people present. Use tape and notices to warn others.

Equipment

Warning tape and notices. Scoop, trowel or scraper. Garden-type sprayer or watering can containing wetting agent. Bucket of water and rags. Asbestos waste container, eg labelled polythene sack. Clear polythene sack.

Personal protective equipment (PPE)

Provide:

- disposable overalls fitted with a hood;
- boots without laces (laced boots are hard to decontaminate); and
- protective gloves. Select single use gloves.



Wet the debris again if you find dry material, avoid creating a slurry

Work at height - see www.hse.gov.uk/falls/ index.htm. Take precautions to avoid falls. Must you work from a ladder? Where necessary, erect an access platform.

Work on fragile roofs see www.hse.gov.uk/ construction/information, htm. Fragile roofs cannot bear weight.

There may be other hazards - you need to consider them all. A respirator is not normally required.

Procedure

- Sprinkle the wetting solution into the gutter. Avoid creating a slurry.
- Scoop out the debris into the waste container. Wet the debris again if you find dry material.

Cleaning and disposal

Clean the equipment with damp rags. Put used rags and other waste in the asbestos waste container and tape it closed. Put the asbestos waste container in a clear polythene sack and tape it closed. Disposal - see sheet em9.

Personal decontamination

See sheet em8.

Clearance and checking off

Visually inspect the area to make sure that it has been cleaned properly.

Clearance air sampling is not normally required.

Non-licensed tasks

ESSENTIAL INFORMATION

Also read the following sheets in this book:

em1 (p8) What to do if you uncover or damage materials that may contain asbestos

em2 (p11) Training

em5 (p18) Wetting asbestos materials

em6 (p20) Personal protective equipment (PPE)

em7 (p24) Using damp rags to clean surfaces of minor asbestos contamination

em8(p26) Personal decontamination

em9 (p28) Disposal of asbestos waste

CAUTION

AC roofs are always fragile and cannot bear weight.

Removing asbestos cement (AC) debris

What this sheet covers

This sheet describes good practice when you need to clear up AC. This includes decontamination following a fire.

This sheet is not appropriate for cleaning debris from damaged asbestos lagging, insulation or insulating board. Use an HSE-licensed contractor for such work.

For fly-tipped AC waste, see sheet a38.

Preparing the work area

Ensure safe access.

Restrict access - minimise the number of people present. Close doors. Use tape and notices to warn others. Ensure adequate lighting.

Equipment

Warning tape and notices. Scoop, trowel or scraper. Adhesive tape. Garden-type sprayer containing wetting agent. Bucket of water and rags. Asbestos waste container, eg labelled polythene sack. Clear polythene sack.

Personal protective equipment (PPE) - see sheet em6 Provide:

- disposable overalls fitted with a hood; and



AC debris is common

Work at height - see www.hse.gov.uk/falls/ index.htm. Take precautions to avoid falls. Must you work from a ladder? Where necessary, erect an access platform.

Work on fragile roofs see www.hse.gov.uk/ construction/information, htm. Fragile roofs cannot bear weight.

There may be other hazards - you need to consider them all.

CAUTION

Make sure the debris is AC only.

boots without laces (laced boots are hard to decontaminate).

A respirator is not normally required if there are only a few pieces of contamination in a small area, or the pieces are damp.

For larger or heavily contaminated areas, a respirator is required.



Procedure

Clean up visible contamination in occupied areas, eg houses and gardens nearby. In large contaminated areas, eg following a fire, you may be unable to remove all the AC.

Dampen the AC debris with spray.

Pick up larger pieces of debris. Put them in the waste container.

For debris on rough surfaces, keep it damp and scoop or scrape it into the waste container.

Clean contaminated surfaces with damp rags, then put these in the waste container.

Press adhesive tape onto small dust deposits, then put the tape in the waste container.

If necessary, repair the AC - see sheet a13.

Put used rags and other waste in the asbestos waste container and tape it closed.

Put the asbestos waste container in a clear polythene sack and tape it closed.

Disposal - see sheet em9.

Personal decontamination

See sheet em8.

Clearance and checking off

Visually inspect the area to make sure that it has been cleaned properly.

Clearance air sampling is not normally required.

Non-licensed tasks

ESSENTIAL INFORMATION

Also read the following sheets in this book:

em1 (p8) What to do if you uncover or damage materials that may contain asbestos

em2(p11) Training

em6 (p20) Personal protective equipment (PPEj

em7 (p24) Using damp rags to clean surfaces of minor asbestos contamination

em8(p26) Personal decontamination

em9 (p28) Disposal of asbestos waste

CAUTION

AC roofs are always fragile and cannot bear weight.

Cleaning weathered asbestos cement (AC) roofing and cladding

What this sheet covers

This sheet describes good practice when you need to clean AC cladding and roofing, either to improve its appearance or to prepare it for a surface coating.

This sheet is not appropriate for cleaning asbestos insulating board. Use an HSE-licensed contractor for such work.

Preparing the work area

Ensure safe access. Restrict access - minimise the number of people present. Use tape and notices to warn others.

Equipment

500-gauge polythene sheeting and duct tape. Warning tape and notices. Approved biocide - see 'Useful links'. Scoop or trowel. Scraper. Proprietary cleaning machine. Garden-type sprayer containing wetting agent. Bucket of water and rags. Asbestos waste container, eg labelled polythene sack. Clear polythene sack.



Moss and lichen growth on asbestos cement roofing and gutters

Personal protective equipment (PPE) - see sheet em6 Provide:

- disposable overalls fitted with a hood (you may need waterproof overalls);
- boots without laces (laced boots are hard to decontaminate).
- protective gloves. Select single use gloves; and
- a disposable particulate respirator (eg FF P3) for manual scraping and for operating the filtration system.



A respirator is not normally needed for an operator who is well away from the cleaning machine.

Procedure

Prevent slurry entering the building. Seal gaps into the building with polythene sheeting, secured with duct tape. If necessary, remove debris first - see sheet a11. Only in exceptional circumstances is high pressure jetting appropriate. This requires a specialist contractor.

CAUTION

It is dangerous to seal over exhaust vents from gas-fired equipment. Can the equipment be turned off?

Method 1: Cleaning cladding accessible from ground level

Prepare the biocide according to the instructions on the label. Apply it by low pressure sprayer.

Allow time for the biocide to work - check the product label.

Keep the surface wet and remove growths by gentle scraping. Dead plant roots are hard to remove - leave these in place.

Scoop debris into the waste container.

Method 2: Employ a specialist roof cleaning contractor with a cleaning machine

This method creates a lot of slurry that must be collected for disposal.

The contractor should:

- divert the slurry through a collection and filtration system;
- keep solid waste wet and put it in the waste container; and
- flush out the slurry collector with clean water.

Cleaning and disposal

Clean the equipment and the area with damp rags. Put debris, used rags, polythene sheeting, paintbrush and other waste in the asbestos waste container and tape it closed.



Cleaning machine





The contractor should use a collection and filter system
Work at height - see www.hse.gov.uk/falls/ index.htm. Take precautions to avoid falls. Must you work from a ladder? Where necessary, erect an access platform.

Work on fragile roofs see www.hse.gov.uk/ construction/information. htm. Fragile roofs cannot bear weight.

There may be other hazards - you need to consider them all. Put the asbestos waste container in a clear polythene sack and tape it closed. Disposal - see sheet em9.

Personal decontamination

See sheet em8.

Clearance and checking off

Visually inspect the area to make sure that it has been cleaned properly. Clearance air sampling is not normally required.

Non-licensed tasks

ESSENTIAL INFORMATION

Also read the following sheets in this book:

em1 (p8) What to do if you uncover or damage materials that may contain asbestos

em2 (p11) Training

em.5 (p18) Wetting asbestos materials

em7 (p24) Using damp rags to clean surfaces of minor asbestos contamination

em8(p26) Personal decontamination

em9 (p28) Disposal of asbestos waste

CAUTION

AC roofs are always fragile and cannot bear weight.

Repairing damaged asbestos cement (AC)

What this sheet covers

This sheet describes good practice when you need to repair damaged AC. For badly damaged AC, see sheet a14 or sheet a15.

This sheet is not appropriate for repairs to asbestos insulating board - see sheet a6.

Preparing the work area

Ensure safe access.

Restrict access - minimise the number of people present.

Close doors. Use tape and notices to warn others. Ensure adequate lighting.

Equipment

500-gauge polythene sheeting and duct tape. Warning tape and notices. Mastic or sealant for gaps. Garden-type sprayer containing wetting agent. Bucket of water and rags. Asbestos waste container, eg labelled polythene sack. Clear polythene sack.

Personal protective equipment (PPE)

Provide:

- disposable overalls fitted with a hood; and
- boots without laces (laced boots are hard to decontaminate).

A respirator is not normally required.

Work at height - see www.hse.gov.uk/falls/ index.htm. Take precautions to avoid falls. Must you work from a ladder? Where necessary, erect an access platform.

Work on fragile roofs see www.hse.gov.uk/ construction/information, htm. AC roofs are fragile and cannot bear weight.

Slips and trips - see www.hse.gov.uk/slips/ index.htm. Floors protected with polythene become very slippery when wet.

There may be other hazards - you need to consider them all.



Paint or cover the damaged area, see a8 and a16

Procedure

Protect nearby surfaces from contamination. Cover with 500-gauge polythene sheeting and fix with duct tape to non-asbestos surfaces.

Clean up debris and loose material - see sheet a11. Paint the damaged area - see sheet a16 Alternatively, protect the area by attaching and sealing a non-asbestos panel over the damage - see sheet a8. Warn the building owner about the presence of asbestoscontaining material, so it can be managed properly.

Cleaning and disposal

Clean the equipment and the area with damp rags. Put debris, used rags, polythene sheeting and other waste in the asbestos waste container and tape it closed. Put the asbestos waste container in a clear polythene sack and tape it closed. Disposal - see sheet em9.

Personal decontamination

See sheet em8.

Clearance and checking off

Visually inspect the area to make sure that it has been cleaned properly.

Clearance air sampling is not normally required.

Non-licensed tasks

ESSENTIAL INFORMATION

Also read the following sheets in this book:

em1 (p8) What to do if you uncover or damage materials that may contain asbestos

em2 (p11) Training

em5 (p18) Wetting asbestos materials

em6 (p20) Personal protective equipment (PPE)

em7 (p24) Using damp rags to clean surfaces of minor asbestos contamination

em8(p26) Personal decontamination

em9 (p28) Disposal of asbestos waste

CAUTION

AC roofs are always fragile and cannot bear weight.

Removing asbestos cement (AC) sheets, gutters, etc and dismantling a small AC structure

What this sheet covers

This sheet describes good practice when you need to remove AC sheets, gutters, drains, ridge caps, etc on a small scale, or dismantle a small structure (eg shed or garage).

This sheet does not apply to large scale work or mechanical demolition - see HSE's website for asbestos non-licensed contractors' guides.

This sheet is not appropriate if other asbestos-containing materials are present, eg lagging, limpet or insulating board. Use an HSE-licensed contractor for such work.

Preparing the work area

Ensure safe access - you may need a mobile access platform.

Restrict access - minimise the number of people present. Close doors. Use tape and notices to warn others. Ensure adequate lighting.

Equipment

500- and 1000-gauge polythene sheeting and duct tape.
Warning tape and notices.
Bolt cutter.
Webbing straps and rope.
Garden-type sprayer containing wetting agent.
Bucket of water and rags.
Asbestos waste container, eg labelled polythene sack.

Clear polythene sack.



AC sheets used as roofing

Lockable skip for larger quantities of waste. Asbestos warning stickers.

Personal protective equipment (PPE) - see sheet em6 Provide:

- disposable overalls fitted with a hood;
- boots without laces (laced boots are hard to decontaminate); and



- respiratory protective equipment.

Procedure

Check with the premises owner that only AC is present. Protect nearby surfaces from contamination. Cover with 500-gauge polythene sheeting and fix with duct tape to non-asbestos surfaces.

Overlaying AC sheets

Can you overlay sheets with non-asbestos material instead of removing the AC?

If so, attach the material to existing purlins. Avoid drilling through the AC. If you cannot avoid drilling, see sheet a9.

CAUTION

It is dangerous to seal over exhaust vents from gas-fired equipment. Can the equipment be turned off?

Removal

Avoid or minimise breaking the AC.

If fasteners hold the sheets in place, dampen and remove them, and place them in the waste container.

If the sheets are bolted in place, dampen and cut the bolts while avoiding contact with the AC.

Remove the bolts or fixings carefully and place them in the waste container.

CAUTION

Avoid crushing AC debris on the ground.

Unbolt, or use cutters to release gutters, drain pipes, ridge caps, etc. Avoid contact with the AC.

Lower large pieces to the ground. Don't drop them or use rubble chutes. Stack sheets carefully.

Where there are several AC sheets and other large items, place them in a lockable skip.

Double-wrap large pieces in 1000-gauge polythene sheeting. Seal with duct tape.

Attach asbestos warning stickers.

Place small pieces in the asbestos waste container.

Cleaning and disposal

Clean the equipment and the area with damp rags. Check for debris in fasteners or bolt holes. Clean with damp rags.

Put debris, used rags, polythene sheeting and other waste in the asbestos waste container and tape it closed. Dispose of contaminated webbing and rope as 'asbestos waste'.

Put the asbestos waste container in a clear polythene sack and tape it closed.

Disposal - see sheet em9.

Personal decontamination

See sheet em8.







Cut the bolts while avoiding contact with the asbestos cement. Double-wrap large pieces in 1000-gauge polythene sheeting and seal with duct tape

Work at height - see www.hse.gov.uk/falls/ index.htm. Take precautions to avoid falls. Must you work from a ladder? Where necessary, erect an access platform.

Work on fragile roofs -

see www.hse.gov.uk/ construction/information. htm. Fragile roofs cannot bear weight.

Electrical hazards - see www.hse.gov.uk/ electricity/index.htm. Get a competent electrician to isolate and reconnect electricity supply.

Manual handling - see www.hse.gov.uk/msd/ index.htm. Plan how to remove and handle heavy material and articles safely.

Confined spaces www.hse.gov.uk/ confinedspace/index.htm

Slips and trips - see www.hse.gov.uk/slips/ index.htm. Floors protected with polythene become very slippery when wet.

There may be other hazards - you need to consider them all.

Clearance and checking off

Visually inspect the area to make sure that it has been cleaned properly.

Clearance air sampling is not normally required.

Get the premises owner, dutyholder or client to check off the job.

Further information

Health and safety in roof work HSG33 (Second edition) HSE Books 1998 ISBN 978 0 7176 1425 7 Working with asbestos cement HSG 189/2 HSE Books 1999 ISBN 978 0 7176 1667 1

Non-licensed tasks

ESSENTIAL INFORMATION

Also read the following sheets in this book:

em1 (p8) What to do if you uncover or damage materials that may contain asbestos

em2(p11) Training

em5 (p18) Wetting asbestos materials

em6 (p20) Personal protective equipment (PPE)

em7 (p24) Using damp rags to clean surfaces of minor asbestos contamination

em8(p26) Personal decontamination

em9 (p28) Disposal of asbestos waste

Removing an asbestos cement (AC) or reinforced plastic product, eg tank, duct, water cistern

What this sheet covers

This sheet describes good practice when you need to remove an AC product (eg tank) or a plastic reinforced product (eg a bakelite cistern) from an area such as a loft.

If the article is no longer needed, but doesn't interfere with any other installations or work, then note its location for the building owner and leave it in place.

See sheet a35 for AC flues and ducts and sheet a23 for plastic floor tiles.

If the product is attached to asbestos insulating board, see sheet em4 on shadow vacuuming and sheet a6 for minor damage repair.

Preparing the work area

Ensure safe access.

Restrict access - minimise the number of people present. Close doors. Use tape and notices to warn others. Ensure adequate lighting.

Equipment

500- and 1000-gauge polythene sheeting and duct tape. Warning tape and notices. Screwdriver and spanners. Hammer.



Try to remove the product intact, or wrap it in 1000-guage polythene sheet before breaking it up

Garden-type sprayer containing wetting agent. Bucket of water and rags. Asbestos waste container, eg labelled polythene sack. Clear polythene sack. Asbestos warning stickers.

Personal protective equipment (PPE) - see sheet em6 Provide:

- disposable overalls fitted with a hood;
- boots without laces (laced boots are hard to decontaminate); and



 respiratory protective equipment.
 A respirator is not normally needed to remove a reinforced plastic product.

Procedure

For lofts and similar areas, board out an area large enough to work on and to prevent asbestos contaminating loft insulation nearby.

Protect nearby surfaces from contamination. Cover with 500-gauge polythene sheeting and fix with duct tape to non-asbestos surfaces.

Check that the product is not fixed to asbestos insulating board.

Removal

AC product: Removal intact

Strengthen any damaged sections with duct tape. Remove fittings, plumbing, etc and unscrew the product from its supports.

Place the screws in the waste container.

Double-wrap the product in 1000-gauge polythene sheet. Attach asbestos warning stickers.

Lower to the ground carefully.

AC product: Non-intact removal

Dampen the product and wrap it in 1000-gauge polythene sheet.

Carefully break the wrapped product with the hammer. If pieces are small enough, place them whole in asbestos

waste containers.

Lower large pieces to the ground. Don't drop them or use rubble chutes. Stack sheets carefully.

Double-wrap large pieces in 1000-gauge polythene sheeting. Seal with duct tape.

Attach asbestos warning stickers.

Cleaning and disposal

Clean the equipment and the area with damp rags. Check for debris in screw or bolt holes. Clean with damp rags.



See sheer a35 for AC flues and ducts and sheet a23 for plastic floor tiles

Work at height - see www.hse.gov.uk/falls/ index.htm. Take precautions to avoid falls. Must you work from a ladder? Where necessary, erect an access platform.

Manual handling - see www.hse.gov.uk/msd/ index.htm. Plan how to remove and handle heavy material and articles safely.

There may be other hazards - you need to consider them all. Put debris, used rags, polythene sheeting and other waste in the asbestos waste container and tape it closed. Put the asbestos waste container in a clear polythene sack and tape it closed. Disposal - see sheet em9.

Personal decontamination

See sheet em8.

Clearance and checking off

Visually inspect the area to make sure that it has been cleaned properly.

Clearance air sampling is not normally required.

Non-licensed tasks

ESSENTIAL INFORMATION

Also read the following sheets in this book:

em1 (p8) What to do if you uncover or damage materials that may contain asbestos

em2 (p11) Training

em5 (p18) Wetting asbestos materials

em6 (p20) Personal protective equipment (PPE)

em8(p26) Personal decontamination

em9 (p28) Disposal of asbestos waste

Painting asbestos cement (AC) sheets

What this sheet covers

This sheet describes good practice when you need to paint an AC sheet that is in good condition.

Caution: If done wrongly, painting can result in the sheet failing.

To protect from impact damage, see sheet a8.

Preparing the work area

Ensure safe access.

Restrict access - minimise the number of people present. Close doors. Use tape and notices to warn others. Ensure adequate lighting.

Equipment

500-gauge polythene sheeting and duct tape. Warning tape and notices. Low-solvent paint. Low-pressure sprayer, or brush or roller. Bucket of water and rags. Asbestos waste container, eg labelled polythene sack. Clear polythene sack.

Personal protective equipment (PPE)

Provide:

- disposable overalls fitted with a hood; and
- boots without laces (laced boots are hard to decontaminate).



Use low pressure spraying

OTHER HAZARDS

Work at height - see www.hse.gov.uk/falls/ index.htm. Take precautions to avoid falls. Must you work from a ladder? Where necessary, erect an access platform.

There may be other hazards - you need to consider them all.

CAUTION

Never prepare surfaces by sanding or rubbing down. A respirator is not normally required.

Procedure

Check the asbestos cement surface before starting work. Repair damage - see sheet a13.

Protect nearby surfaces from contamination. Cover with 500-gauge polythene sheeting and fix with duct tape to non-asbestos surfaces.

Wipe dusty surfaces with a damp rag.

Apply the paint, preferably by low-pressure spraying. Spray using a sweeping motion.

If painting by brush or roller, do so gently and avoid concentrating on one area, to reduce surface damage.

Cleaning and disposal

Clean the equipment and the area with damp rags. Put debris, used rags, polythene sheeting, paintbrush or roller and other waste in the asbestos waste container and tape it closed.

Put the asbestos waste container in a clear polythene sack and tape it closed.

Disposal - see sheet em9.

Personal decontamination

See sheet em8.

Clearance and checking off

Visually inspect the area to make sure that it has been cleaned properly.

Clearance air sampling is not normally required.

Non-licensed tasks

ESSENTIAL INFORMATION

Also read the following sheets in this book:

em1 (p8) What to do if you uncover or damage materials that may contain asbestos

em2(p11) Training

em5 (p18) Wetting asbestos materials

em6 (p20) Personal protective equipment (PPE)

em7 (p24) Using damp rags to clean surfaces of minor asbestos contamination

em8(p26) Personal decontamination

em9 (p28) Disposal of asbestos waste

Removing asbestos paper linings

What this sheet covers

This sheet describes good practice when you need to remove asbestos paper linings (eg from a boiler casing, beneath lino, or where asbestos paper separates easily from other materials).

This sheet is not appropriate for removing asbestos paper lagging. Use an HSE-licensed contractor for such work.

Preparing the work area

Restrict access - minimise the number of people present. Close doors. Use tape and notices to warn others. Ensure adequate lighting.



Asbestos paper linings can be found in boiler casings, under lino or tiles and many other places



Paper gaskets can contain asbestos

Equipment

500-gauge polythene sheeting and duct tape. Warning tape and notices. Permanent sealant. Sharp knife. Garden-type sprayer containing wetting agent. Paint brush. Bucket of water and rags. Asbestos waste container, eg labelled polythene sack. Clear polythene sack.

Personal protective equipment (PPE) - see sheet em6 Provide:

- disposable overalls fitted with a hood;
- boots without laces (laced boots are hard to decontaminate); and



- respiratory protective equipment.

Procedure

Isolate the power supply - use a competent electrician. Only work on a boiler that is cold.

Protect nearby surfaces from contamination. Cover with 500-gauge polythene sheeting and fix with duct tape to non-asbestos surfaces.

Electrical hazards see www.hse.gov.uk/ electricity/index.htm. Get a competent electrician to isolate and reconnect electricity supply.

There may be other hazards - you need to consider them all.



If you can't remove the paper whole, cut it - don't tear - and dampen it as you go

Removal

Carefully remove the covering - dismantle metal covers on a boiler; ease back lino etc.

Protect vulnerable parts with polythene sheeting, fixed with tape to a non-asbestos surface.

Dampen the exposed paper.

If possible, remove the paper whole. Otherwise, cut the paper - don't tear it - and dampen as you remove it. Put the paper in the waste container.

Brush any paper you can't remove with sealant. Brush the back surface of other material, eg lino, with sealant before disposal.

Cleaning and disposal

Clean the equipment and the area with damp rags. Put debris, used rags, polythene sheeting, paintbrush and other waste in the asbestos waste container and tape it closed.

Put the asbestos waste container in a clear polythene sack and tape it closed.

Disposal - see sheet em9.

Personal decontamination

See sheet em8.

Clearance and checking off

Visually inspect the area to make sure that it has been cleaned properly.

Clearance air sampling is not normally required.

a 18 asbestos essentials

Non-licensed tasks

ESSENTIAL INFORMATION

Also read the following sheets in this book:

em1 (p8) What to do if you uncover or damage materials that may contain asbestos

em2(p11)Training

em4 (p14) Using a Class H vacuum cleaner for asbestos

em6 (p20) Personal protective equipment (PPE) em7 (p24) Using damp rags to clean surfaces of minor asbestos contamination

em8(p26) Personal decontamination

em9 (p28) Disposal of asbestos waste

CAUTION

Never use **a** brush or compressed air for **cleaning.**

Removing asbestos friction linings

What this sheet covers

This sheet describes good practice when you need to remove a friction lining containing asbestos (eg brake assembly, clutch housing) or when the housing needs cleaning.

Preparing the work area

Restrict access - minimise the number of people present. Use tape and notices to warn others. Ensure adequate lighting.

Equipment

500-gauge polythene sheeting and duct tape. Warning tape and notices. Class H vacuum cleaner (BS EN 60335) - see sheet em4.

Scraper.

Bucket of water and rags.

Asbestos waste container, eg labelled polythene sack; and

Clear polythene sack.

Personal protective equipment (PPE) - see sheet em6

Provide:

- disposable overalls fitted with a hood;
- boots without laces (laced boots are hard to decontaminate); and



- respiratory protective equipment.



Procedure

Protect nearby surfaces from contamination. Cover with 500-gauge polythene sheeting and fix with duct tape to non-asbestos surfaces.

Removal

Partially open the housing and vacuum the inside. Open the housing carefully. Use damp rags to clean inside.

Put the worn friction lining and dirty rags in the waste container.

Scrape off any residues using 'shadow vacuuming' - see sheet em.4.

If necessary, replace it with non-asbestos material.

Cleaning and disposal

Clean the equipment and the area with damp rags. Put debris, used rags, polythene sheeting, and other waste in the asbestos waste container and tape it closed.

Put the asbestos waste container in a clear polythene sack and tape it closed.

Disposal - see sheet em9.

Personal decontamination

See sheet em8.

Clearance and checking off

Visually inspect the area to make sure that it has been cleaned properly.

Clearance air sampling is not normally required.

Get the premises owner, dutyholder or client to check off the job.

OTHER HAZARDS

There may be other hazards - you need to consider them all.

a 19 asbestos **e**ssentials

Non-licensed tasks

ESSENTIAL INFORMATION

Also read the following sheets in this book:

em1 (p8) What to do if you uncover or damage materials Preparing the work area that may contain asbestos

em2 (p11) Training em5 (p18) Wetting asbestos materials

em7 (p24) Using damp rags to clean surfaces of minor asbestos contamination

em8(p26) Personal decontamination

em9 (p28) Disposal of asbestos waste

Removing an asbestos fire blanket

What this sheet covers

This sheet describes good practice when you need to remove an asbestos fire blanket, or replace it with a non-asbestos blanket.

Restrict access - minimise the number of people present.

Ensure adequate lighting.

Equipment

Suitable non-asbestos replacement fire blanket.

Garden-type sprayer containing wetting agent.

Bucket of water and rags.

Asbestos waste container, eg labelled polythene sack. Clear polythene sack.

Personal protective equipment (PPE)

Provide:

- disposable overalls fitted with a hood; and
- boots without laces (laced boots are hard to decontaminate).

A respirator is not normally required.

CAUTION

Never unravel or shake an asbestos fire blanket.

Procedure

Removal

Where the blanket and container are no longer needed, unscrew the box from the wall and put it, with the blanket inside, into the waste container.



Open the front, dampen, and slide the blanket into the waste container

For a blanket in a box with opening base, open the front and dampen with spray.

Slide the blanket into the waste container,

For a blanket in a circular cylinder: first dampen the blanket. Spray up into the container.

Avoid over-wetting and creating a pool of water.

Pull the blanket out, into the waste container.

Cleaning and disposal

Clean inside any container that remains, with damp rags. Clean the floor beneath the container with damp rags. Put used rags and other waste in the asbestos waste container and tape it closed.

Put the asbestos waste container in a clear polythene sack and tape it closed.

Disposal - see sheet em9.

Personal decontamination

See sheet em8.

Clearance and checking off

Visually inspect inside the container and the floor beneath it to make sure that these have been cleaned properly. Clearance air sampling is not normally required. Get the premises owner, dutyholder or client to check off the job.

OTHER HAZARDS

There may be other hazards - you need to consider them all.

Non-licensed tasks

ESSENTIAL INFORMATION

Also read the following sheets in this book:

em1 (p8) What to do if you uncover or damage materials that may contain asbestos

em2(p11) Training

em6 (p20) Personal protective equipment (PPE)

em7 (p24) Using damp rags to clean surfaces of minor asbestos contamination

em8(p26) Personal decontamination

em9 (p28) Disposal of asbestos waste

Laying cables in areas containing undamaged asbestos materials

What this sheet covers

This sheet describes good practice when you need to run cables through an area containing intact asbestos lagging, insulation, insulating board or coating.

If you need to remove an asbestos insulating board (AIB) ceiling tile for access, see sheet a2.

This sheet is not appropriate where damaged asbestos material is present, or for cabling over a suspended AIB ceiling. Use an HSE-licensed contractor for such work.

Preparing the work area

Ensure safe access.

Restrict access - minimise the number of people present. Close doors. Use tape and notices to warn others. Ensure adequate lighting.

Equipment

500-gauge polythene sheeting and duct tape. Warning tape and notices. Adhesive spray. Bucket of water and rags. Asbestos waste container, eg labelled polythene sack. Clear polythene sack.

Personal protective equipment (PPE) - see sheet em6 Provide:

- disposable overalls fitted with a hood;
- boots without laces (laced boots are hard to decontaminate); and
- respiratory protective equipment.



Procedure

Wherever possible, use existing cable trays or conduits, or fix cables to non-asbestos surfaces.

If there is no alternative to running cables near asbestos, protect the surfaces with 500-gauge polythene sheeting secured with adhesive spray or duct tape to non-asbestos surfaces.

Avoid drilling through asbestos-containing materials. Avoid fixing cables to anything that contains asbestos. Ensure that cabling only runs over the protected sections.

Cleaning and disposal

Clean the equipment with damp rags.

Put debris, used rags, polythene sheeting and other waste in the asbestos waste container and tape it closed. Put the asbestos waste container in a clear polythene sack and tape it closed. Disposal - see sheet em9.

Personal decontamination

See sheet em8.

Clearance and checking off

Visually inspect the area to make sure that it has been cleaned properly.

Clearance air sampling is not normally required.

Get the premises owner, dutyholder or client to check off the job.

OTHER HAZARDS

Work at height - see www.hse.gov.uk/falls/ index.htm. Take precautions to avoid falls. Must you work from a ladder? Where necessary, erect an access platform.

There may be other hazards - you need to consider them all.

Non-licensed tasks

ESSENTIAL INFORMATION

Also read the following sheets in this book:

em1 (p8) What to do if you uncover or damage materials that may contain asbestos

em2 (p11) Training

em5 (p18) Wetting asbestos materials

em7 (p24) Using damp rags to clean surfaces of minor asbestos contamination

em8 (p26) Personal decontamination

em9 (p28) Disposal of asbestos waste

Removing asbestoscontaining bituminous products

What this sheet covers

This sheet describes good practice when you need to remove asbestos-containing bituminous products such as built-up roofing, gutter linings or damp-proof courses.

This sheet is not appropriate for work with metal cladding lined with asbestos-containing bitumen (eg 'Galbestos') - see sheet a22.

Preparing the work area

Ensure safe access.

Restrict access - minimise the number of people present. Use tape and notices to warn others. Ensure adequate lighting.

Equipment

500-gauge polythene sheeting and duct tape. Warning tape and notices. Sharp knife. Scraper. Shovel. Garden-type sprayer containing wetting agent. Bucket of water and rags. Asbestos waste container, eg labelled polythene sack. Clear polythene sack. Lockable skip for larger quantities of waste. For roofwork, interlocking bucket-type rubble chute into the skip.

CAUTION

It is dangerous to seal over exhaust vents from gas-fired equipment. Can the equipment be turned off?

For roofwork, check if the roof may be fragile.

Don't rip up asbestos bituminous felt; never burn the debris.





Built up bituminous roofing and bituminous asbestos fabric over a doorway

Personal protective equipment (PPE) Provide:

- disposable overalls fitted with a hood; and
- boots without laces (laced boots are hard to decontaminate).

A respirator is not normally required.

Procedure

Seal access points, eg skylights, with polythene sheeting and duct tape.

Overlaying AC sheets

Can you avoid removal, eg by overlaying with nonasbestos bituminous felt?

Warn the building owner about the presence of asbestos material, so it can be managed properly.

Removal

Can you minimise the amount for removal, cutting around the area?

For safe handling, cut and remove manageable sections. Place these in the chute or the skip.

Remove adhering material by dampening and gentle scraping.

Collect up all debris.

Work at height - see www.hse.gov.uk/falls/ index.htm. Take precautions to avoid falls. Must you work from a ladder? Where necessary, erect an access platform.

Work on fragile roofs see www.hse.gov.uk/ construction/information. htm. Fragile roofs cannot bear weight.

Manual handling - see www.hse.gov.uk/msd/ index.htm. Plan how to remove and handle heavy material and articles safely.

There may be other hazards - you need to consider them all.



Cut and remove manageable sections

Remove large dust deposits by dampening and shovelling into the waste container.

Dampen dust and debris from disintegrating felt and place in the waste container.

Cleaning and disposal

Clean the equipment with damp rags.

Dismantle and decontaminate the chute with damp rags. Put debris, used rags, polythene sheeting, and other waste in the asbestos waste container and tape it closed. Put the asbestos waste container in a clear polythene sack and tape it closed.

Disposal - see sheet em9.

Personal decontamination

See sheet em8.

Clearance and checking off

Visually inspect the area to make sure that it has been cleaned properly.

Clearance air sampling is not normally required.

Non-licensed tasks

ESSENTIAL INFORMATION

Also read the following sheets in this book:

em1 (p8) What to do if you uncover or damage materials that may contain asbestos

em2(p11) Training

em5 (p18) Wetting asbestos materials

em7 (p24) Using damp rags to clean surfaces of minor asbestos contamination

em8(p26) Personal decontamination

em9 (p28) Disposal of asbestos waste

Removing metal cladding lined with asbestos-containing bitumen

What this sheet covers

This sheet describes good practice when you need to remove metal cladding lined with asbestos-containing bitumen (eg 'Galbestos').

This sheet is not appropriate for work with asbestoscontaining bitumen products (eg roofing felt, damp-proof course) - see sheet a21.

Preparing the work area

Ensure safe access. Restrict access - minimise the number of people present. Close doors. Use tape and notices to warn others. Ensure adequate lighting.

Equipment

500- and 1000-gauge polythene sheeting and duct tape. Warning tape and notices. Bolt cutter. Hammer. Chisel. Garden-type sprayer containing wetting agent. Bucket of water and rags. Asbestos waste container, eg labelled polythene sack. Clear polythene sack. Lockable skip for larger quantities of waste. Asbestos warning stickers.

Personal protective equipment (PPE)

Provide:

- disposable overalls fitted with a hood; and
- boots without laces (laced boots are hard to decontaminate).

A respirator is not normally required.

Procedure

Protect nearby surfaces from contamination. Cover with 500-gauge polythene sheeting and fix with duct tape to non-asbestos surfaces.

Removal

Carefully remove fixtures such as pipework.

If the sheets are screwed in place, knock off the screw heads with the hammer and chisel.

If the sheets are bolted in place, cut the bolts while avoiding contact with the asbestos-containing bitumen. Remove the bolts carefully.

Pull the sheet away from its fastenings, dampening exposed surfaces.

Lower sheets to the ground - do not use a rubble chute. Put small items and debris in the waste container.

Double-wrap cladding pieces in 1000-gauge polythene sheeting. Attach asbestos warning stickers.

Where there are several sheets of cladding, place them in a lockable skip.

Cleaning and disposal

Clean the equipment and the area with damp rags. Check for debris in screw or bolt holes. Clean with damp rags.

Put debris, used rags, polythene sheeting, and other waste in the asbestos waste container and tape it closed. Put the asbestos waste container in a clear polythene sack and tape it closed.

Disposal - see sheet em9.

CAUTION

It is dangerous to seal over exhaust vents from gas-fired equipment. Can the equipment be turned off?

Work at height - see www.hse.gov.uk/falls/ index.htm. Take precautions to avoid falls. Must you work from a ladder? Where necessary, erect an access platform.

Slips and trips - see www.hse.gov.uk/slips/ index.htm. Floors protected with polythene become very slippery when wet.

There may be other hazards - you need to consider them all.

Personal decontamination

See sheet em8.

Clearance and checking off

Visually inspect the area to make sure that it has been cleaned properly.

Clearance air sampling is not normally required.

Non-licensed tasks

ESSENTIAL INFORMATION

Also read the following sheets in this book:

em1 (p8) What to do if you uncover or damage materials that may contain asbestos

em2 (p11) Training

em4 (p14) Using a Class H vacuum cleaner for asbestos

em5 (p18) Wetting asbestos materials

em6 (p20) Personal protective equipment (PPE)

em7 (p24) Using damp rags to clean surfaces of minor asbestos contamination

em8 (p26) Personal decontamination

em9 (p28) Disposal of asbestos waste

Removing asbestoscontaining floor tiles and mastic

What this sheet covers

This sheet describes good practice when you need to remove floor tiles that contain asbestos.

These may also have asbestos-paper backing, or be fixed with asbestos-containing mastic.

Preparing the work area

Restrict access - minimise the number of people present. Close doors. Use tape and notices to warn others. Ensure adequate lighting.

Equipment

Warning tape and notices. Class H vacuum cleaner (BS EN 60335 - see sheet em4) for large areas. Sharp knife. Hammer. Scraper. Shovel. Garden-type sprayer containing wetting agent. Bucket of water and rags. Asbestos waste container, eg labelled polythene sack. Clear polythene sack.



Floor tiles that contain asbestos can also have asbestos-paper backing, or be fixed with asbestos-containing mastic

Personal protective equipment (PPE) - see sheet em6 Provide:

- disposable overalls fitted with a hood;
- boots without laces (laced boots are hard to decontaminate); and



- respiratory protective equipment.

Procedure

Overlaying AC sheets

Can you avoid removal, eg by overlaying with nonasbestos material?

Warn the building owner about the presence of asbestos material, so it can be managed properly.

Removal

Place the scraper in the joint between the tiles. Lift the tile gently - try to avoid breakage.

For firmly-fixed tiles, tap the scraper with the hammer.

For a large tiled area, lift tiles using a shovel. This speeds up the job and avoids kneeling close to the tiles.

Spray water under the tiles as they are lifted, to suppress dust and wet any asbestos paper that may be present.

Wet any asbestos paper tile backing as the tiles are lifted. Gently scrape up adhering mastic. You can soften mastic with solvent, by warming with an infra-red lamp, or embrittle it with dry ice.

Place debris in the waste container.

CAUTION

Never sand the floor.



Asbestos-containing mastic



Spray water under the tiles to suppress dust as you lift them gently, avoiding breakage

Cleaning and disposal

Where you have removed only a few tiles, use damp rags to clean the floor. Clean larger areas with the Class H vacuum cleaner.

Clean the equipment with damp rags.

Put debris, used rags and other waste in the asbestos waste container and tape it closed.

Put the asbestos waste container in a clear polythene sack and tape it closed.

Disposal - see sheet em9.

There may be other hazards - you need to consider them all.

Personal decontamination

See sheet em8.

Clearance and checking off

Visually inspect the area to make sure that it has been cleaned properly.

Clearance air sampling is not normally required.

Non-licensed tasks

ESSENTIAL INFORMATION

Also read the following sheets in this book:

em1 (p8) What to do if you uncover or damage materials that may contain asbestos

em2 (p11) Training

em5 (p18) Wetting asbestos materials

em6 (p20) Personal protective equipment (PPE)

em7 (p24) Using damp rags to clean surfaces of minor asbestos contamination

em8(p26) Personal decontamination

em9 (p28) Disposal of asbestos waste

Removing flexible asbestos textile duct connectors (gaiters)

What this sheet covers

This sheet describes good practice when you need to remove a gaiter (flexible asbestos textile connector) from metal ductwork sections or from the joint with a fan.

This sheet applies where the gaiter is riveted to the metal frame, and where it is clipped in place over the ducting.

This sheet is not appropriate if adjacent ducting is lagged with asbestos. Use an HSE-licensed contractor for such work.

Preparing the work area

Ensure safe access. Restrict access - minimise the number of people present. Close doors. Use tape and notices to warn others. Ensure adequate lighting.

Equipment

Warning tape and notices. Drill - manual or powered, set at the lowest speed. Screwdriver. Scraper. Garden-type sprayer containing wetting agent. Bucket of water and rags. Asbestos waste container, eg labelled polythene sack. Clear polythene sack.







Connectors may be clipped or rivetted

Personal protective equipment (PPE) - see sheet em6 Provide:

- disposable overalls fitted with a hood;
- boots without laces (laced boots are hard to decontaminate); and



- respiratory protective equipment.

OTHER HAZARDS

Work at height - see www.hse.gov.uk/falls/ index.htm. Take precautions to avoid falls. Must you work from a ladder? Where necessary, erect an access platform.

Manual handling - see www.hse.gov.uk/msd/ index.htm. Plan how to remove and handle heavy material and articles safely.

There may be other hazards - you need to consider them all.

Procedure

Turn off and lock off the system.

Method 1: Riveted flexible gaiters (duct connectors)

Where possible, unbolt the assembly holding the connector and remove it whole.

Otherwise, dampen the gaiter and drill out the rivets, avoiding the gaiter material.

Ease the metal plate away. Dampen the gaiter's inner surface.

Remove the gaiter and place it in the waste container. Dampen any debris adhering, and carefully scrape it into the waste container.

Method 2: Clipped flexible gaiters (duct connectors)

Dampen the gaiter. Remove the clips holding the gaiter in place. Slide the gaiter off the ducting and put it in the waste container.

Wipe the clips with damp rags.

Cleaning and disposal

Clean the equipment and the area with damp rags. Check for debris in screw or bolt holes or on the ducting. Clean with damp rags.

Put debris, used rags and other waste in the asbestos waste container and tape it closed.

Put the asbestos waste container in a clear polythene sack and tape it closed.

Disposal - see sheet em9.

Personal decontamination

See sheet em8.

Clearance and checking off

Visually inspect the area to make sure that it has been cleaned properly.

Clearance air sampling is not normally required.
Non-licensed tasks

ESSENTIAL INFORMATION

Also read the following sheets in this book:

em1 (p8) What to do if you uncover or damage materials that may contain asbestos

em2 (p11) Training

em4 (p14) Using a Class H vacuum cleaner for asbestos

em5 (p18) Wetting asbestos materials

em6 (p20) Personal protective equipment (PPE)

em7 (p24) Using damp rags to clean surfaces of minor asbestos contamination

em8 (p26) Personal decontamination

em9 (p28) Disposal of asbestos waste

Removing compressed asbestos fibre (CAF) gaskets and asbestos rope seals

What this sheet covers

This sheet describes good practice when you need to remove CAF gaskets and asbestos rope seals from pipework, vessels and plant, or heaters, boilers, etc.

Preparing the work area

Ensure safe access.

Restrict access - minimise the number of people present. Close doors. Use tape and notices to warn others. Ensure adequate lighting.

Equipment

500-gauge polythene sheeting and duct tape. Warning tape and notices. Class H vacuum cleaner (BS EN 60335 - see sheet em4) to collect adhering gasket residues. Scraper. Garden-type sprayer containing wetting agent. Bucket of water and rags. Asbestos waste container, eg labelled polythene sack. Clear polythene sack.

Personal protective equipment (PPE) - see sheet em6 Provide:

- disposable overalls fitted with a hood.
- boots without laces (laced boots are hard to decontaminate); and
- · respiratory protective equipment.



Procedure

Ensure the system has been made safe (pipework emptied, electrical supply isolated, etc).

Protect nearby surfaces from contamination. Cover with 500-gauge polythene sheeting and fix with duct tape to non-asbestos surfaces.

Protect vulnerable components with polythene sheeting.

Removal

Unbolt or unscrew the flange, or dismantle the equipment.

Once accessible, dampen the asbestos. Continue dampening as it is exposed.

Ease the gasket or rope seal away with the scraper, and into the waste container.

Keep the surface damp, and ease away asbestos residues.

Gently scrape off residues using 'shadow vacuuming' - see sheet em4.

Cleaning and disposal

Clean the equipment and the area with the Class H vacuum cleaner and/or damp rags.

Put used rags, polythene sheeting and other waste in the asbestos waste container and tape it closed.

Put the asbestos waste container in a clear polythene sack and tape it closed.

Disposal - see sheet em9.



Gasket material left on a pipe flange



Joint packing on a flue



String gasket between metal sheets





Some examples of rope seals found on boilers

OTHER HAZARDS

Work at height - see www.hse.gov.uk/falls/ index.htm. Take precautions to avoid falls. Must you work from a ladder? Where necessary, erect an access platform.

Slips and trips - see www.hse.gov.uk/slips/ index.htm. Floors protected with polythene become very slippery when wet.

There may be other hazards - you need to consider them all.

Personal decontamination

See sheet em8.

Clearance and checking off

Visually inspect the area to make sure that it has been cleaned properly. Clearance air sampling is not normally required. Get the premises owner, dutyholder or client to check off the job.

Non-licensed tasks

ESSENTIAL INFORMATION

Also read the following sheets in this book:

em1 (p8) What to do if you uncover or damage materials that may contain asbestos

em2 (p11) Training

em4 (p14) Using a Class H vacuum cleaner for asbestos

em6 (p20) Personal protective equipment (PPE)

em7 (p24) Using damp rags to clean surfaces of minor asbestos contamination

em8 (p26) Personal decontamination

em9 (p28) Disposal of asbestos waste

Drilling and boring through textured coatings

What this sheet covers

This sheet describes good practice when you need to drill through textured coating.

This sheet is NOT appropriate:

if work lasts more than one hour per week for a worker; or

if work lasts two hours in total for two or more workers.

The work is still non-licensed but you need to make a risk assessment.

If the coating is on asbestos insulating board, see sheet a1.

Preparing the work area

Restrict access - minimise the number of people present. Close doors. Use tape and notices to warn others. A two-stage airlock is not required. Ensure adequate lighting.





Textured coating is common on ceilings



Drill through paste or foam or use a plastic cowl or other proprietary device with a Class H vacuum cleaner

Equipment

500-gauge polythene sheeting and duct tape. Warning tape and notices.

Class H vacuum cleaner (BS EN 60335 - see sheet em4) for cleaning.

Drill - manual or powered, set at the lowest speed. Drill bit, or hole cutter for holes greater than 20 mm diameter.

Thick paste, eg wallpaper paste or shaving foam, or a proprietary device to contain drilling debris.

Permanent sealant.

Paint brush.

Bucket of water and rags.

Asbestos waste container, eg labelled polythene sack.

Clear polythene sack.

Personal protective equipment (PPE) - see sheet em6 Provide:

- disposable overalls fitted with a hood;
- boots without laces (laced boots are hard to decontaminate); and
- 9
- respiratory protective equipment.

Work at height - see www.hse.gov.uk/falls/ index.htm. Take precautions to avoid falls. Must you work from a ladder? Where necessary, erect an access platform.

There may be other hazards - you need to consider them all.





A hand drill creates less dust. If you have to use an electric drill, put it on the slowest setting

Procedure

Remove furniture and fittings from the area, or protect them from contamination using 500-gauge polythene sheet.

Protect nearby surfaces from contamination. Cover with 500-gauge polythene sheeting and fix with duct tape to non-asbestos surfaces.

For cable and pipework, make the hole slightly bigger than required.

Drilling and boring

Cover the drill entry and, if accessible, exit points with a generous amount of paste, foam or a proprietary device. Drill through the paste, foam or device.

Clean off the paste, foam and debris with damp rags. Or remove the device and clean the surface. Clean the back surface with damp rags, if accessible.

Rags and paste or foam contain dust and fibres. Dispose of as asbestos waste.

Seal the drilled edge with sealant.

Cleaning and disposal

Clean the area and equipment with the Class H vacuum cleaner and damp rags.

Put debris, used rags, paint brush, polythene sheeting and other waste in the asbestos waste container and tape it closed.

Put the asbestos waste container in a clear polythene sack and tape it closed.

Disposal - see sheet em9.

Personal decontamination

See sheet em8.

Clearance and checking off

Visually inspect the area to make sure that it has been cleaned properly.

Clearance air sampling is not normally required.

Get the premises owner, dutyholder or client to check off the job.

Non-licensed tasks

ESSENTIAL INFORMATION

Also read the following sheets in this book:

em1 (p8) What to do if you uncover or damage materials that may contain asbestos

em2 (p11) Training

em4 (p14) Using a Class H vacuum cleaner for asbestos

em6 (p20) Personal protective equipment (PPE)

em7 (p24) Using damp rags to clean surfaces of minor asbestos contamination

em8(p26) Personal decontamination

em9 (p28) Disposal of asbestos waste

Inserting and removing screws through textured coatings

What this sheet covers

This sheet describes good practice when you need to insert and remove screws through textured coating.

This sheet is NOT appropriate:

if work lasts more than one hour per week for a worker; or

if work lasts two hours in total for two or more workers.

The work is still non-licensed but you need to make a risk assessment.

If the coating is on asbestos insulating board, see sheet a4.

Preparing the work area

Restrict access - minimise the number of people present. Close doors. Use tape and notices to warn others. A two-stage airlock is not required. Ensure adequate lighting.

Equipment

500-gauge polythene sheeting and duct tape. Warning tape and notices. Class H vacuum cleaner (BS EN 60335) - see sheet em4. Permanent sealant. Magnet. Screwdriver. Paint brush.



a26 tells you how to drill through textured coating





Paint sealant around the hole before you insert the screw. Use shadow vacuuming to control dust when removing screws

Bucket of water and rags. Asbestos waste container, eg labelled polythene sack. Clear polythene sack.

Personal protective equipment (PPE) - see sheet em6 Provide:

- disposable overalls fitted with a hood;
- boots without laces (laced boots are hard to decontaminate); and



- respiratory protective equipment.

Procedure

Can you use strong adhesive instead of screws? Remove furniture and fittings from the area, or protect them from contamination using 500-gauge polythene sheet.

Protect nearby surfaces from contamination. Cover with 500-gauge polythene sheeting and fix with duct tape to non-asbestos surfaces.

Inserting screw

Hole drilling - see sheet a26. Paint sealant around the hole and fix the screw.

Removing screw

Locate steel screws with the magnet. Locate brass screws by careful paint scraping.

Use 'shadow vacuuming' to control dust - see sheet em4.

Work at height - see www.hse.gov.uk/falls/ index.htm. Take precautions to avoid falls. Must you work from a ladder? Where necessary, erect an access platform.

There may be other hazards - you need to consider them all. Unscrew - put the screws in the waste container. Paint sealant around the hole.

Cleaning and disposal

Clean the area and equipment with the Class H vacuum cleaner and damp rags.

Put debris, used rags, paint brush, polythene sheeting and other waste in the asbestos waste container and tape it closed.

Put the asbestos waste container in a clear polythene sack and tape it closed.

Disposal - see sheet em9.

Personal decontamination

See sheet em8.

Clearance and checking off

Visually inspect the area to make sure that it has been cleaned properly.

Clearance air sampling is not normally required.

Get the premises owner, dutyholder or client to check off the job.

Non-licensed tasks

ESSENTIAL INFORMATION

Also read the following sheets in this book:

em1 (p8) What to do if you uncover or damage materials that may contain asbestos

em2(p11) Training

em4 (p14) Using a Class H vacuum cleaner for asbestos

em6 (p20) Personal protective equipment (PPE)

em7 (p24) Using damp rags to clean surfaces of minor asbestos contamination

em8(p26) Personal decontamination

em9 (p28) Disposal of asbestos waste

em10(p30) Statement of cleanliness after textured coating removal

Removing textured coating from a small area, eg 1 square metre

What this sheet covers

This sheet describes good practice when you need to remove a small area of textured coating, eg around 1 square metre, in preparation for other work.

This sheet is not appropriate for large areas. The work is still non-licensed but you need to make a risk assessment.

If the coating covers asbestos insulating board, use an HSE-licensed contractor.

Preparing the work area

Do you need to isolate any services? Restrict access - minimise the number of people present. Close doors. Use tape and notices to warn others. A two-stage airlock is not required. Ensure adequate lighting.

Equipment

500-gauge polythene sheeting and duct tape. Warning tape and notices. Class H vacuum cleaner (BS EN 60335) - see sheet em4. Penetrating stripping fluid or gel, or a steam generator. Permanent sealant. Plastic dustpan. Scraper. Paint brush. Bucket of water and rags.

CAUTION

Never scrape through or sand down textured coatings or stripped surfaces. Don't use power tools to cut through textured coatings. Asbestos waste container, eg labelled polythene sack. Clear polythene sack.

Personal protective equipment (PPE) - see sheet em6 Provide:

- disposable overalls fitted with a hood;
- boots without laces (laced boots are hard to decontaminate); and



- respiratory protective equipment.

Procedure

Remove furniture and fittings from the area, or protect them from contamination using 500-gauge polythene sheet.

Protect nearby surfaces from contamination. Cover with 500-gauge polythene sheeting and fix with duct tape to non-asbestos surfaces.

Removal

Dampen and pick off any loose pieces of coating and put them in the waste container.

Either brush on penetrating fluid gently, or dampen and loosen the coating with steam.

When loose, gently scrape the coating into the dustpan. Empty this into the waste container.

Seal the stripped surface with sealant.



Gently brush on penetrating fluid, or dampen and loosen the coating with steam



Gently scrape the coating into the dustpan

Work at height - see www.hse.gov.uk/falls/ index.htm. Take precautions to avoid falls. Must you work from a ladder? Where necessary, erect an access platform.

Slips and trips - see www.hse.gov.uk/slips/ index.htm. Floors protected with polythene become very slippery when wet.

There may be other hazards - you need to consider them all.

Cleaning and disposal

Clean the area and equipment with the Class H vacuum cleaner and damp rags.

Put debris, used rags, paint brush, polythene sheeting and other waste in the asbestos waste container and tape it closed.

Put the asbestos waste container in a clear polythene sack and tape it closed.

Disposal - see sheet em9.

Personal decontamination

See sheet em8.

Clearance and checking off

Visually inspect the area to make sure that it has been cleaned properly.

Clearance air sampling is not normally required.

Provide a statement - see sheet em11.

Get the premises owner, dutyholder or client to check off the job.

Non-licensed tasks

ESSENTIAL INFORMATION

Also read the following sheets in this book:

em1 (p8) What to do if you uncover or damage materials that may contain asbestos

em2(p11) Training

em4 (p14) Using a Class H vacuum cleaner for asbestos

em6 (p20) Personal protective equipment (PPE)

em7 (p24) Using damp rags to clean surfaces of minor asbestos contamination

em8 (p26) Personal decontamination

em9 (p28) Disposal of asbestos waste

Clearing up debris following collapse of a ceiling or wall covered with textured coating

What this sheet covers

This sheet describes good practice when you need to clear up wall or ceiling debris with a textured coating.

This sheet does not apply to the removal or renovation of remaining coatings.

It is not appropriate if the coating covered asbestos insulating board. Use an HSE-licensed contractor for such work.

Preparing the work area

Ensure that the area is safe to enter. Do you need to isolate any services? Restrict access - minimise the number of people present. A two-stage airlock is not required. Ensure adequate lighting.

Equipment

Warning tape and notices. Class H vacuum cleaner (BS EN 60335) - see sheet em4. Scoop or trowel. Shovel. Bucket of water and rags. Asbestos waste container, eg labelled polythene sack. Lockable skip for larger quantities of waste. Clear polythene sack.



Old lath and plaster ceilings are often covered in textured coating to hide imperfections

Manual handling - see www.hse.gov.uk/msd/ index.htm. Plan how to remove and handle heavy material and articles safely.

Electrical hazards - see www.hse.gov.uk/ electricity/index.htm. Get a competent electrician to isolate and reconnect electricity supply.

There may be other hazards - you need to consider them all.

Personal protective equipment (PPE) - see sheet em6 Provide:

- disposable overalls fitted with a hood;
- boots without laces (laced boots are hard to decontaminate); and
- respiratory protective equipment.



Procedure

Shovel or scoop smaller pieces into the asbestos waste container.

Put larger amounts in the lockable skip.

Cleaning and disposal

Clean contaminated furniture and furnishings with the Class H vacuum cleaner.

Wrap cleaned furniture in polythene sheeting. Remove cleaned furnishings.

Dispose of any contaminated furniture or furnishings that cannot be cleaned.

Clean the equipment and the area with damp rags. Put debris, used rags and other waste in the asbestos waste container and tape it closed.

Put the asbestos waste container in a clear polythene sack and tape it closed.

Disposal - see sheet em9.

Personal decontamination

See sheet em8.

Clearance and checking off

Visually inspect the area to make sure that it has been cleaned properly.

Clearance air sampling is not normally required.

Get the premises owner, dutyholder or client to check off the job.

Non-licensed tasks

ESSENTIAL INFORMATION

Also read the following sheets in this book:

em1 (p8) What to do if you uncover or damage materials that may contain asbestos

em2 (p11) Training

em4 (p14) Using a Class H vacuum cleaner for asbestos

em6 (p20) Personal protective equipment (PPE) em7 (p24) Using damp rags to clean surfaces of minor asbestos contamination

em8(p26) Personal decontamination

em9 (p28) Disposal of asbestos waste

Removing an asbestoscontaining 'Arc shield' from electrical switchgear

What this sheet covers

This sheet describes good practice when you need to remove an arc shield.

Preparing the work area

Have a competent electrician isolate and lock off the electricity supply, and test to show that the system is not live.

Restrict access - minimise the number of people present. Close doors. Use tape and notices to warn others. Ensure adequate lighting.

Equipment

500-gauge polythene sheeting and duct tape. Warning tape and notices. Class H vacuum cleaner (BS EN 60335) - see sheet em4. Screwdriver and spanners Non-asbestos replacement arc shield Bucket of water and rags. Asbestos waste container, eg labelled polythene sack. Clear polythene sack.

Personal protective equipment (PPE) - see sheet em6 Provide:

- disposable overalls fitted with a hood;
- boots without laces (laced boots are hard to decontaminate); and
- **P**
- respiratory protective equipment.



Arc shield

Procedure

Pre-clean the area. Vacuum, then wipe surfaces with damp rags.

Protect nearby surfaces from contamination. Cover with 500-gauge polythene sheeting and fix with duct tape to non-asbestos surfaces.

Removal

Unbolt or unscrew using 'shadow vacuuming' - see sheet em4.

Remove the bolts or fixings carefully and place them in the waste container.

Loosen and remove the arc shield. Put it in the waste container.

Gently scrape off residues using 'shadow vacuuming' - see sheet em4.

Vacuum clean and wipe all surfaces.

Install the new arc shield.

Cleaning and disposal

Clean the equipment and the area with damp rags. Put used rags, polythene sheeting and other waste in the asbestos waste container and tape it closed. Put the asbestos waste container in a clear polythene sack and tape it closed. Disposal - see sheet em9.

Personal decontamination

See sheet em8.

Clearance and checking off

Visually inspect the area to make sure that it has been cleaned properly.

Clearance air sampling is not normally required.

Get the premises owner, dutyholder or client to check off the job.

OTHER HAZARDS

Electrical hazards - see www.hse.gov.uk/ electricity/index.htm. Get a competent electrician to isolate and reconnect electricity supply.

There may be other hazards - you need to consider them all.

Non-licensed tasks

ESSENTIAL INFORMATION

Also read the following sheets in this book:

em1 (p8) What to do if you uncover or damage materials that may contain asbestos em2 (p11) Training

em4 (p14) Using a Class H vacuum cleaner for asbestos

em5 (p18) Wetting asbestos materials

em6 (p20) Personal protective equipment (PPE)

em7 (p24) Using damp rags to clean surfaces of minor asbestos contamination

em8(p26) Personal decontamination

em9 (p28) Disposal of asbestos waste

Removing a single asbestos-containing gas or electric heater

What this sheet covers

This sheet describes good practice when you need to remove:

a single gas heater (catalytic, radiant, coal- or logeffect); or an electric heater (storage, radiant, etc).

This sheet is NOT appropriate if the work involves asbestos insulating board and lasts more than one hour a week for a worker, or more than two hours in total for two or more workers. Use an HSE-licensed contractor for such work.

You must use a CORGI-registered contractor to disconnect and make safe gas appliances.

Preparing the work area

Have a competent electrician to isolate the appliance from the electricity supply.

Restrict access - minimise the number of people present. Close doors. Use tape and notices to warn others. Ensure adequate lighting.

Equipment

500- and 1000-gauge polythene sheeting and duct tape. Warning tape and notices. Class H vacuum cleaner (BS EN 60335) - see sheet em4. Screwdriver and spanners Garden-type sprayer containing wetting agent.

Electrical hazards - see www.hse.gov.uk/ electricity/index.htm. Get a competent electrician to isolate and reconnect electricity supply.

Manual handling - see www.hse.gov.uk/msd/ index.htm. Plan how to remove and handle heavy material and articles safely.

There may be other hazards - you need to consider them all. Bucket of water and rags.

Asbestos waste container, eg labelled polythene sack. Asbestos warning stickers. Clear polythene sack.

Personal protective equipment (PPE) - see sheet em6 Provide:

- disposable overalls fitted with a hood;
- boots without laces (laced boots are hard to decontaminate); and



- respiratory protective equipment.

Procedure

Can you remove and dispose of the appliance intact?

Preparation

Remove furniture and fittings from the area, or protect them from contamination using 500-gauge polythene sheet.

Protect nearby surfaces from contamination. Cover with 500-gauge polythene sheeting and fix with duct tape to non-asbestos surfaces.

Check if the appliance is attached to asbestos insulating board (AIB); sometimes, this is wall-mounted behind heaters.

Removal

Remove the cover, wipe it with damp rags and set it aside.

Vacuum inside the appliance. Remove with vacuuming all loose material or articles.

Dampen the parts that may contain asbestos, eg panels, board, paper, string and fire cement.

Unscrew or unbolt fixed parts using shadow vacuuming - see sheet em4. Put the fixings in the waste container.

Remove panels or parts intact and put them in the waste container.

Vacuum inside the carcass before removal. If it is attached to AIB, unscrew it using shadow vacuuming. Put the screws in the waste container.

If fixed to AIB, see sheet a6 for repairing minor damage.

CAUTION

Some catalytic heaters contain loose asbestos mats.

Double-wrap the carcass and the cover with 1000-gauge polythene sheeting. Seal with duct tape. Attach asbestos warning stickers.

Cleaning and disposal

Clean the equipment and the area with damp rags. Put used rags, polythene sheeting and other waste in the asbestos waste container and tape it closed. Put the asbestos waste container in a clear polythene sack and tape it closed. Disposal - see sheet em9.

Personal decontamination

See sheet em8.

Clearance and checking off

Visually inspect the area to make sure that it has been cleaned properly.

Clearance air sampling is not normally required.

Get the premises owner, dutyholder or client to check off the job.

Non-licensed tasks

ESSENTIAL INFORMATION

Also read the following sheets in this book:

em1 (p8) What to do if you uncover or damage materials that may contain asbestos

em2 (p11) Training

em4 (p14) Using a Class H vacuum cleaner for asbestos

em5 (p18) Wetting asbestos materials

em6 (p20) Personal protective equipment (PPE)

em7 (p24) Using damp rags to clean surfaces of minor asbestos contamination

em8(p26) Personal decontamination

em9 (p28) Disposal of asbestos waste

Replacing an asbestoscontaining part in a 'period' domestic appliance

What this sheet covers

This sheet describes good practice when you need to remove an asbestos-containing replaceable part in a domestic appliance.

This is most likely if the appliance is a 'heritage' or 'period' piece, eg cooker, washing machine, dryer, dishwasher, freezer, radiator, oil stove, etc.

You must use a CORGI-registered contractor to disconnect and make safe gas appliances.

Preparing the work area

Have a competent electrician to isolate the appliance from the electricity supply. Can you do the job outdoors? Restrict access - minimise the number of people present. Close doors. Use tape and notices to warn others. Ensure adequate lighting.

Equipment

500-gauge polythene sheeting and duct tape. Warning tape and notices. Class H vacuum cleaner (BS EN 60335) - see sheet em.4. Screwdriver and spanners. Scraper. Non-asbestos replacement part. Garden-type sprayer containing wetting agent, eg diluted washing-up liquid. Bucket of water and rags. Asbestos waste container, eg labelled polythene sack. Clear polythene sack.

Personal protective equipment (PPE) - see sheet em6 Provide:

- disposable overalls fitted with a hood;
- boots without laces (laced boots are hard to decontaminate); and



- respiratory protective equipment.

Procedure

Protect nearby surfaces from contamination. Cover with 500-gauge polythene sheeting and fix with duct tape to non-asbestos surfaces.

Protect vulnerable components with polythene sheeting.

Removal

Vacuum inside the appliance. Remove with vacuuming all loose material or articles.

Unscrew or unbolt fixed parts using shadow vacuuming see sheet em4. Put the fixings in the waste container. Once accessible, dampen the asbestos. Continue dampening as it is exposed.

Ease the asbestos away, into the waste container. Gently scrape off residues using 'shadow vacuuming' see sheet em4.





Clean up with damp rags and the Class H vacuum cleaner. Double-bag used rags, polythene sheeting and other waste

Electrical hazards - see www.hse.gov.uk/ electricity/index.htm. Get a competent electrician to isolate and reconnect electricity supply.

Slips and trips - see www.hse.gov.uk/slips/ index.htm. Floors protected with polythene become very slippery when wet.

There may be other hazards - you need to consider them all.

Cleaning and disposal

Clean the appliance, the area and equipment with the Class H vacuum cleaner and damp rags. Put used rags, polythene sheeting and other waste in the asbestos waste container and tape it closed. Put the asbestos waste container in a clear polythene sack and tape it closed. Disposal - see sheet em9.

Personal decontamination

See sheet em8.

Clearance and checking off

- Visually inspect the area to make sure that it has been cleaned properly.
- Clearance air sampling is not normally required.
- Get the premises owner, dutyhoider or client to check off the job.

Non-licensed tasks

ESSENTIAL INFORMATION

Also read the following sheets in this book:

em1 (p8) What to do if you uncover or damage materials that may contain asbestos

em2(p11) Training

em4 (p14) Using a Class H vacuum cleaner for asbestos

em6 (p20) Personal protective equipment (PPE)

em7 (p24) Using damp rags to clean surfaces of minor asbestos contamination

em8 (p26) Personal decontamination

em9 (p28) Disposal of asbestos waste

Replacing an asbestoscontaining fuse box or a single fuse assembly

What this sheet covers

This sheet describes good practice when you need to remove a single asbestos-containing fuse assembly or an asbestos-containing fuse box.

Preparing the work area

Have a competent electrician isolate and lock off the electricity supply, and test to show that the system is not live.

Restrict access - minimise the number of people present.

Close doors. Use tape and notices to warn others. Ensure adequate lighting.

Equipment

500-gauge polythene sheeting and duct tape; Warning tape and notices. Class H vacuum cleaner (BS EN 60335) - see sheet em4. Screwdriver. Non-asbestos replacement fuse box. Bucket of water and rags. Asbestos waste container, eg labelled polythene sack

Asbestos waste container, eg labelled polythene sack. Clear polythene sack.



Old style fuse-boxes contain asbestos inside the fuse assemblies and must be handled correctly

Personal protective equipment (PPE) - see sheet em6 Provide:

- disposable overalls fitted with a hood;
- boots without laces (laced boots are hard to decontaminate); and



- respiratory protective equipment.

Procedure

Instead of a single fuse assembly, can you replace the whole fuse box?

Protect nearby surfaces from contamination. Cover with 500-gauge polythene sheeting and fix with duct tape to non-asbestos surfaces.

Check if the fuse box is attached to asbestos insulating board (AIB).

Vacuum clean around and inside the fuse box.

Removal: Fuse box

Remove connections and carefully unscrew using 'shadow vacuuming' - see sheet em4.

Place the screws in the waste container.

Loosen and remove the fuse box. Put it in the waste container.

Vacuum clean and wipe all surfaces.

Install the new fuse box - attach it to a non-asbestos surface.

If the fuse box had been attached to AIB, see sheet a6 to repair minor damage.

Removal: Fuse assembly

Unplug the fuse carrier and put it in the asbestos waste container.

Vacuum the fuse holder with the Class H vacuum cleaner. Unscrew the connections.

Unscrew the fuse holder with 'shadow vacuuming' - see sheet em4.

Put screws and the fuse holder in the waste container. Vacuum and wipe clean the connectors.

Install the non-asbestos replacement assembly.

Cleaning and disposal

Clean the area and equipment with the Class H vacuum cleaner and damp rags.

Put used rags, polythene sheeting and other waste in the asbestos waste container and tape it closed.

Put the asbestos waste container in a clear polythene sack and tape it closed.

Disposal - see sheet em9.

Personal decontamination

See sheet em8.





After cleaning, put used rags, polythene sheeting and other waste in the asbestos waste container and tape it closed

Work at height - see www.hse.gov.uk/falls/ index.htm. Take precautions to avoid falls. Must you work from a ladder? Where necessary, erect an access platform.

Electrical hazards - see www.hse.gov.uk/ electricity/index.htm. Get a competent electrician to isolate and reconnect electricity supply.

There may be other hazards - you need to consider them all.

Clearance and checking off

Visually inspect the area to make sure that it has been cleaned properly.

Clearance air sampling is not normally required.

Get the premises owner, dutyholder or client to check off the job.

Non-licensed tasks

ESSENTIAL INFORMATION

Also read the following sheets in this book:

em1 (p8) What to do if you uncover or damage materials that may contain asbestos

em2(p11) Training

em6 (p20) Personal protective equipment (PPE)

em7 (p24) Using damp rags to clean surfaces of minor asbestos contamination

em8 (p26) Personal decontamination

Removing pins and nails from an asbestos insulating board (AIB) panel

What this sheet covers

This sheet describes good practice when you need to remove pins or nails from an AIB panel.

Preparing the work area

Can you do this work from ground level?

Restrict access - minimise the number of people present.

Equipment

Thick paste, eg wallpaper paste or shaving foam. Permanent sealant. Filler. Pliers. Paint brush. Bucket of water and rags. Waste bag, eg polythene sack.

Personal protective equipment (PPE) - see sheet em6 Provide:

- disposable overalls fitted with a hood;
- boots without laces (laced boots are hard to decontaminate); and
- protective gloves. Select single use gloves. A respirator is not normally required.

Work at height - see www.hse.gov.uk/falls/ index.htm. Take precautions to avoid falls. Must you work from a ladder? Where necessary, erect an access platform.

There may be other hazards - you need to consider them all.

Procedure

If the nail/pin is flush with the surface, removal will damage AIB. Either paint over it, or get an HSE-licensed contractor for removal.

Apply a generous amount of paste/foam around the nail/pin.

Extract the nail/pin with pliers and put it in the waste bag. Wipe off remaining paste/foam with a damp rag and put it in the waste bag.

Put filler in the small hole and paint over it.

Cleaning and disposal

Clean the area with damp rags. Put used rags, paint brush, gloves and other waste in the waste container and tape it closed. The waste is less than 0.1 % asbestos. It may be disposed with general refuse.

Personal decontamination

See sheet em8.

Clearance and checking off

Visually inspect the area to make sure that it has been cleaned properly.

Clearance air sampling is not normally required.

Get the premises owner, dutyholder or client to check off the job.

Non-licensed tasks

ESSENTIAL INFORMATION

Also read the following sheets in this book:

em1 (p8) What to do if you uncover or damage materials that may contain asbestos

em2 (p11) Training

em4 (p14) Using a Class H vacuum cleaner for asbestos

em5 (p18) Wetting asbestos materials

em6 (p20) Personal protective equipment (PPE)

em7 (p24) Using damp rags to clean surfaces of minor asbestos contamination

em8(p26) Personal decontamination

em9 (p28) Disposal of asbestos waste

Replacing an asbestos cement (AC) flue or duct

What this sheet covers

This sheet describes good practice when you need to mend urgently, then replace, an asbestos cement flue or air duct.

Sometimes, the joints are sealed with asbestos string.

Preparing the work area

Ensure safe access.

Restrict access - minimise the number of people present. Close doors. Use tape and notices to warn others. Ensure adequate lighting.

Equipment

Mini-enclosure for nailed-on AIB - see sheet em3. 500- and 1000-gauge polythene sheeting and duct tape. Warning tape and notices. Class H vacuum cleaner (BS EN 60335) - see sheet em4. Screwdriver. Hammer. Non-asbestos replacement flue/duct and sealant. Garden-type sprayer containing wetting agent. Bucket of water and rags. Asbestos waste container, eg labelled polythene sack. Clear polythene sack. Asbestos warning stickers.

Work at height - see www.hse.gov.uk/falls/ index.htm. Take precautions to avoid falls. Must you work from a ladder? Where necessary, erect an access platform.

Manual handling - see www.hse.gov.uk/msd/ index.htm. Plan how to remove and handle heavy material and articles safely.

Slips and trips - see www.hse.gov.uk/slips/ index.htm. Floors protected with polythene become very slippery when wet.

There may be other hazards - you need to consider them all.

Personal protective equipment (PPE) - see sheet em6 Provide:

- disposable overalls fitted with a hood;
- boots without laces (laced boots are hard to decontaminate); and
- 9
- respiratory protective equipment.

Procedure

Dampen any AC debris with spray.

Pick up larger pieces of debris. Put them in the waste container.

Clean contaminated surfaces with damp rags, then put these in the waste container.

Protect surfaces from further contamination - cover with 500-gauge polythene sheeting and fix with duct tape to non-asbestos surfaces.

Emergency repair (eg 1 to 2 days only)

Wrap the duct or flue with duct tape - replace the part as soon as possible.

Replacement

Turn off equipment vented by the flue or fed by the duct. If hot, wait for the flue to cool. Dampen the AC flue/duct and joint seals. If the section can be removed intact, strengthen the damaged sections with duct tape.



This section of AC ducting has already been labelled



Sometimes, the joints are sealed with asbestos string

CAUTION

Also remove asbestos fragments that fall down the flue/duct.

If it cannot be removed intact, wrap the section in 1000-gauge polythene and break it into large pieces with a hammer.

Dampen any asbestos string seal. Ease it away with the screwdriver into the waste container.

Gently scrape off residues using 'shadow vacuuming' - see sheet em4.

Double-wrap the damaged flue/duct with 1000-gauge polythene sheeting and seal with duct tape. Attach asbestos warning stickers.

Install the replacement non-asbestos flue/duct.

Cleaning and disposal

Clean the area and equipment with the Class H vacuum cleaner and damp rags.

Put debris, used rags, polythene sheeting and other waste in the asbestos waste container and tape it closed. Put the asbestos waste container in a clear polythene sack and tape it closed.

Disposal - see sheet em9.

Personal decontamination

See sheet em8.

Clearance and checking off

- Visually inspect the area to make sure that it has been cleaned properly.
- E Clearance air sampling is not normally required.
- Get the premises owner, dutyholder or client to check off the job.

Non-licensed tasks

ESSENTIAL INFORMATION

Also read the following sheets in this book:

em1 (p8) What to do if you uncover or damage materials that may contain asbestos

em2 (p11) Training

em6 (p20) Personal protective equipment (PPE)

em7 (p24) Using damp rags to clean surfaces of minor asbestos contamination

em8 (p26) Personal decontamination

em9 (p28) Disposal of asbestos waste

Removing an asbestos cement (AC) panel outside, beside or beneath a window

What this sheet covers

This sheet describes good practice when you need to remove an AC panel mounted outdoors.

This sheet is not appropriate for an asbestos insulating board (AIB) panel or where the panel conceals asbestos insulation. Use an HSE-licensed contractor for such work.

Caution - windows:

Indoor panels beneath windows may be AIB - see sheet a4. Window sills may be made of AC - see sheet a15. Windows may have asbestos rope seals - see sheet a25. Outdoor panels are likely to be AC. Check for loose textured coatings.

Is concealed asbestos possible? If so, ask for a survey - see 'More help'.

Preparing the work area

Place barriers to restrict access and minimise the number of people present. Ensure safe access. Use tape and notices to warn others. Ensure adequate lighting.

Equipment

500-gauge polythene sheeting and duct tape. Warning tape and notices. Sharp knife.





External AC panels A lockable skip

Hammer.

Webbing straps and rope.

Non-asbestos covering panel.

Bucket of water and rags.

Asbestos waste container, eg labelled polythene sack.

Clear polythene sack. Lockable skip for larger quantities of waste.

Asbestos warning stickers.

Personal protective equipment (PPE) - see sheet em6 Provide:

- disposable overalls fitted with a hood;
- boots without laces (laced boots are hard to decontaminate); and
- **P**
- respiratory protective equipment.

Procedure

Protect nearby surfaces from contamination. Cover with 500-gauge polythene sheeting and fix with duct tape to non-asbestos surfaces.

Can you remove the window and panel assembly intact? Or can you remove the panels intact?

Remove beading/nails to allow clear access to the panel. Cut beading or prise out nails. Put these in the waste container.

If you cannot remove the panel intact, attach duct tape over the surface. Carefully break it into large pieces with the hammer.

Lower the pieces to the ground.

Place the sheet and debris in the lockable skip.

Work at height - see www.hse.gov.uk/falls/ index.htm. Take precautions to avoid falls. Must you work from a ladder? Where necessary, erect an access platform.

Manual handling - see www.hse.gov.uk/msd/ index.htm. Plan how to remove and handle heavy material and articles safely.

Slips and trips - see www.hse.gov.uk/slips/ index.htm. Floors protected with polythene become very slippery when wet.

There may be other hazards - you need to consider them all. Place small pieces of debris in the waste container. Clean the exposed surfaces with damp rags to collect dust and debris.

Fit a non-asbestos replacement panel.

Cleaning and disposal

Clean the equipment and the area with damp rags. Put debris, used rags, polythene sheeting and other waste in the asbestos waste container and tape it closed. Put the asbestos waste container in a clear polythene sack and tape it closed.

Place the sack in the lockable skip if you have one. Disposal - see sheet em9.

Personal decontamination

See sheet em.8.

Clearance and checking off

Visually inspect the area to make sure that it has been cleaned properly. Clearance air sampling is not normally required.

Get the premises owner, dutyholder or client to check off the job.

Further information

Surveying, sampling and assessment of asbestoscontaining materials MDHS100 HSE Books 2001 ISBN 978 0 7176 2076 0 www.hse.gov.uk/pubns/mdhs/index.htm

Non-licensed tasks

ESSENTIAL INFORMATION

Also read the following sheets in this book:

em1 (p8) What to do if you uncover or damage materials that may contain asbestos

em2 (p11) Training

em4 (p14) Using a Class H vacuum cleaner for asbestos

em5 (p18) Wetting asbestos materials

em7 (p24) Using damp rags to clean surfaces of minor asbestos contamination

em8(p26) Personal decontamination

em9 (p28) Disposal of asbestos waste

CAUTION

Don't use power tools.

Removing asbestoscontaining mastic, sealant, beading, filler, putty or fixing

What this sheet covers

This sheet describes good practice when you need to remove mastics, etc that contain asbestos. If you also need to remove small areas of textured coating, see sheet a28.

This sheet is not appropriate if the material is attached to asbestos insulating board or lagging. Use an HSE-licensed contractor.

Preparing the work area

Ensure safe access.

Restrict access - minimise the number of people present. Close doors. Use tape and notices to warn others. Ensure adequate lighting.

Equipment

500-gauge polythene sheeting and duct tape. Warning tape and notices. Class H vacuum cleaner (BS EN 60335) - see sheet em4. Sealant, eg polyvinyl acetate (PVA). Scraper, trowel, hand drill, paintbrush. Heat source (for some mastics). Bucket of water and rags. Asbestos waste container, eg labelled polythene sack. Clear polythene sack.

Personal protective equipment (PPE)

Provide:

- disposable overalls fitted with a hood; and
- boots without laces (laced boots are hard to decontaminate)



Tape mastic

A respirator is not normally required.

Procedure

Protect nearby surfaces from contamination. Cover with 500-gauge polythene sheeting and fix with duct tape to non-asbestos surfaces.

Can you remove the part rather than scraping off the asbestos-containing material?

Gently scrape up adhering mastic. You can soften mastic with solvent, by warming with an infra-red lamp, or embrittle it with dry ice.

Scrape off mastic into the waste container.

Dampen plaster-based materials thoroughly with water and scrape off using 'shadow vacuuming' - see sheet em4. For asbestos 'Rawlplugs', dampen and drill out using 'shadow vacuuming'.

Paint newly exposed surfaces with sealant.

Cleaning and disposal

Clean the area and equipment with the Class H vacuum cleaner and damp rags.

Put debris, used rags, polythene sheeting, paintbrush and other waste in the asbestos waste container and tape it closed.

Put the asbestos waste container in a clear polythene sack and tape it closed.

Disposal - see sheet em9.

Personal decontamination

See sheet em8.

Clearance and checking off

Visually inspect the area to make sure that it has been cleaned properly.

Clearance air sampling is not normally required. Get the premises owner, dutyholder or client to check off the job.

OTHER HAZARDS

There may be other hazards - you need to consider them all.

Non-licensed tasks

ESSENTIAL INFORMATION

Also read the following sheets in this book:

em1 (p8) What to do if you uncover or damage materials that may contain asbestos

em2(p11) Training

em5 (p18) Wetting asbestos materials

em6 (p20) Personal protective equipment (PPE)

em8(p26) Personal decontamination

em9 (p28) Disposal of asbestos waste

How to deal with fly-tipped asbestos waste

What this sheet covers

This sheet describes good practice when you recognise fly-tipped material as containing asbestos that you need to deal with.

Preparing the work area

Restrict access - minimise the number of people present. Use tape and notices to warn others.

Equipment

1000-gauge polythene sheeting and duct tape. Warning tape and notices. Shovel. Tent pegs. Garden-type sprayer containing wetting agent, eg diluted washing-up liquid. Bucket of water and rags. Asbestos waste container, eg labelled polythene sack. Asbestos warning stickers. Clear polythene sack.

Personal protective equipment (PPE) - see sheet em6 Provide:

- disposable overalls fitted with a hood;
- boots without laces (laced boots are hard to decontaminate); and
- 9
- respiratory protective equipment.





Asbestos waste discarded illegally

Procedure

Notify the relevant authority - see 'Useful links'. Estimate the amount and type of asbestos waste. If the waste is spread around or mixed with non-asbestos material, get an HSE-licensed contractor to deal with it. Disposal - see sheet em9.

Small amount of any asbestos-containing waste

Dampen and place pieces in an asbestos waste container. Shovel damp residues into the container.

Large amount of asbestos-containing waste

Cover the waste securely with 1000-gauge polythene sheet. Peg it down with tent pegs. Attach asbestos warning stickers.

Mark out an exclusion zone with warning tape. If the waste is in an inhabited area, make arrangements to secure the site until it is removed.

Cleaning and disposal

Clean the equipment with damp rags. Put used rags and other waste in the asbestos waste container and tape it closed. Put the asbestos waste container in a clear polythene

sack and tape it closed.

Disposal - see sheet em9.

Personal decontamination

See sheet em8.

Further information

Surveying, sampling and assessment of asbestos-containing materials MDHS100 HSE Books 2001 ISBN 978 0 7176 2076 0 www.hse.gov.uk/pubns/mdhs/index.htm

OTHER HAZARDS

There may be other hazards - you need to consider them all.

Further information

HSE priced and free publications are available by mail order from HSE Books, PO Box 1999, Sudbury, Suffolk C010 2WA Tel: 01787 881165 Fax: 01787 313995 Website: <u>www.hsebooks.co.uk</u> (HSE priced publications are also available from bookshops and free leaflets can be downloaded from HSE's website: <u>www.hse.gov.uk.</u>)

For information about health and safety ring HSE's Infoline Tel: 0845 345 0055 Fax: 0845 408 9566 Textphone: 0845 408 9577 e-mail: hse.infoline® <u>natbrit.com</u> or write to HSE Information Services, Caerphilly Business Park, Caerphilly CF83 3GG. The Asbestos Testing and Consultancy (ATAC) are a division of the Asbestos R emoval Contractors Association (ARCA). ARCA has a list of members who can hire equipment and offer training and other services. Website: <u>www.arcaweb.org.uk</u>. Tel: 01283 531126

The Asbestos Control and Abatement Division (ACAD) Tel: 01325 466704.

ARCA and ACAD can help with lists of wetting agent suppliers

The British Occupational Hygiene Society (BOHS) Tel: 01332 298101 You can find a list of qualified hygienists on their website at <u>www.bohs.org</u> under 'Professional > Consultants'

British Standards are available from BSI Customer Services, 389 Chiswick High Road, London W4 4AL Tel: 020 8996 9001 Fax: 020 8996 7001 e-mail: <u>cservices@bsiglobal.com</u> Website: <u>www.bsi-global.com</u>

For advice on disposing of asbestos and other waste go to <u>www.environment-</u> <u>agency.co.uk</u>, <u>www.sepa.org.uk</u>, or <u>www.netregs.gov.uk</u>

Waste duty of care details can be seen at <u>www.defra.gov.uk</u>

Carriage of Dangerous Goods - see <u>www.hse.gov.uk/cdg/index.htm</u>

Take a look at some images of common uses of asbestos on www.hse.gov.uk/asbestos/index.htm

HSE's online risk assessment shows you if the task you need to carry out requires a licence, at www.hse.gov.uk/asbestos/index.htm

Your trade association may also be able to offer further advice and information

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For information about health and safety and licensed asbestos removal contractors, licence holders and training providers ring HSE's Infoline Tel: 0845 345 0055 Fax: 0845 408 9566 Textphone: 0845 408 9577 e-mail: <u>hse.infoline@natbrit.com</u> or write to HSE Information Services, Caerphilly Business Park, Caerphilly CF83 3GG. Also see www.hse.gov.uk/asbestos/index.htm

The task sheets (a) and equipment and method (em) sheets in this manual can be downloaded free from <u>www.hse.gov.uk</u> /asbestos/index.htm

Asbestos: The licensed contractors' guide HSG247 HSE Books 2006 ISBN 978 0 7176 2874 2

Respiratory protective equipment at work: A practical guide HSG53 (Third edition) HSE Books 2005 ISBN 978 0 7176 2904 6

Fit testing of respiratory protective equipment facepieces HSE Information Operational Circular OC 282/28 www.hse.gov.uk/pubns/fittesting.pdf

Health and safety in roof work HSG33 (Second edition) HSE Books 1998 ISBN 978 0 7176 1425 7

Working with asbestos cement HSG189/2 HSE Books 1999 ISBN 978 0 7176 1667 1

Surveying, sampling and assessment of asbestos-containing materials MDHS100 HSE Books 2001 ISBN 978 0 7176 2076 0 www.hse.gov.uk/pubns/mdhs/index.htm

A task manual for building, maintenance and allied trades on non-licensed asbestos work

Not for nothing is asbestos called the hidden killer - large amounts of it were once used in new and refurbished buildings and often in places where you can't easily see it.

A lot of premises still contain some form of asbestos. And the danger is still there waiting for you if you're unprepared - especially if you're in construction, maintenance, refurbishment and similar work.

When asbestos materials are damaged or disturbed they can release dangerous fibres which can cause serious illness if breathed in. So no matter how routine a job may seem, make sure you know where asbestos may be hidden and what to do about it.

This new, practical guide tells you what action to take for non-licensed tasks. And it's small enough to fit into your toolbox so you can keep it with you when you're working.



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