PREFACE

One of the main causes of deaths and injuries at work each year is falling from height, particularly through or from roofs. To ensure safety during roofwork requires the commitment of all those involved in the procurement process. This publication aims to give advice on how this can be achieved, by addressing:

- The planning of, and safe systems of work for, work at height;
- The selection and use of work equipment for work at height;
- The management and supervision of work at height;
- The competence of workers performing work at height;
- The role designers can play in limiting hazards.

The delivery of improvements in the prevention of falls from height will only be achieved with the full involvement of all those with a role to play, i.e. employers, workers, trades unions, trade associations, manufacturers, trainers and others.

This Good Practice Guide gives practical advice on the duties placed on clients, contractors, designers and manufacturers and includes recommendations for good practice while working on roofs. It concentrates on profiled roofs. Nevertheless, those engaged in other similar activities would benefit from the advice given, as many of the principles do apply and offer good practice.

Graham Willmott (Chairman)

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Note: Any reference to an ACR publications in the following text should be taken to mean the latest

For more advice see www.roofworkadvice.info
version of that document.

FOREWORD
This Good Practice Guide was drawn up by The Advisory Committee for RoofSafety [ACR], to assist in making roof working a safer occupation. It draws on the experience of people who have spent many years in the roofing industry and, as such, the advice given in the document is a statement of good practice, which has been achieved. While this document concentrates on safe working practices on industrial and agricultural roofs, much of the advice is applicable to work on other types of roof.

Working on roofs is an extremely hazardous activity. This is confirmed by the Health and Safety Executive's (HSE's) accident statistics, which also show that many of these accidents happened because the people carrying out the work were not competent to do so. Consequently, the work was carried out without the necessary planning or management and, often, without suitable equipment.

In addition, many designers of roofs do not do enough to design out risks. Neither do they consider how roofs will be built, the needs of the persons working on roofs, future maintenance needs nor demolition. Often, this results in the specification of inappropriate designs.

Some clients who have inadequate knowledge of their duties when commissioning roof work exacerbate the hazards, which exist when working at height.

This Good Practice Guide provides a source of essential information, by addressing the roles and responsibilities of all who may be concerned with working on roofs. It draws on existing good practice, which is already being followed by informed clients, competent designers and roofing companies. The recommendations in this document are intended to reduce the level of accidents by encouraging clients, designers and roofers to recognise their responsibilities and co-operate, to make working on roofs a less hazardous occupation.

Note: Any reference to an ACR publications in the following text should be taken to mean the latest version of that document

Details of other ACR publications can be found on the ACR website

www.roofworkadvice.info/publications

INTRODUCTION
Roofs need to be constructed and then maintained, repaired and ultimately replaced. Managing the hazards connected with working on roofs is just as important as managing any other hazards that people at work are exposed to. The proper management of the hazards associated with roof working can only be achieved if all those responsible for this work undertake their duties conscientiously.

The failure of any roof while it is being worked on can have devastating effects. Consequently, it is a legal requirement to ensure the safety of persons working on a roof. It is, therefore, essential to plan working on a roof carefully and to recognise that the key to safety of those working on roofs lies in:

• Clients employing competent practitioners;
• Designers designing out risks;
• Proper planning and control of the work;

For more advice see www.roofworkadvice.info
• Employing a competent roofing company;
• Ensuring that all workers on roofs are properly trained in the necessary skills and in safety procedures and appropriately managed;
• Providing the building owner with good advice about the essential maintenance and advice about a safe system of work to be applied every time access to the roof is required.

This document gives advice on how these requirements can be met; starting with the preliminary decisions to be made and going on to give guidance on particular provisions to make working on roofs safer.

HOW THE LAW APPLIES

Case-study: An employee of a furniture warehouse whose normal remit was handling accounts, was sent on to a roof by a director to conduct roof maintenance and repair at its premises. As he traversed the roof, he fell 10 metres through a rooflight onto concrete below, escaping lightly, with the only lasting damage being to his wrist.

The director of the company who had asked this person to do the work admitted breaching S.2 of the Health and Safety at Work etc Act 1974 for which he was fined £500, with £500 costs. Had the person died, the fines would no doubt have been higher

1. The erection, dismantling and repairing of roofs come under health and safety law. The specific requirements of the Acts and Regulations\textsuperscript{1,2,3,4} are well documented in other guidance notes, to which the reader is referred.

\textit{Note1. Management of Health & Safety at Work Regulations 1999;}
\textit{Note 2. Health and Safety at Work, etc. Act 1974}
\textit{Note 3.Construction (Design and Management) Regulations 2015.}
\textit{Note 4 Work at Height Regulations 2005}

2. UK Health and Safety Law requires hazards to be identified and, where possible, eliminated. Any residual risks should be assessed and safe systems of work developed to minimise them. If there is an accident on the roof on which you are working, you may be asked to prove that you applied these principles.

3. Remember, having a safe system of work when undertaking work on a roof is a legal duty and should be a co-operative effort between the Client, the Contractors and the Designer. If each of these parties carries out their duties properly, the risks associated with roof working will be minimised.

THE CLIENT

Preliminaries

Fragile Surface

4. Before commencing any work on any existing roof it is absolutely essential that you find out whether your roof is fragile or non-fragile. This is a key decision, which should only be made by persons competent to do so. If there are any doubts, assume that the roof is fragile.

For more advice see \url{www.roofworkadvice.info}
5. If the roof is identified as fragile or suspected of being fragile, systems of work, which protect the worker from the hazards of working on or close to fragile roof areas, must be put in place, see ACR[CP]002 Guidance Note for Safe Working on Fragile Roofs or Roofs with Fragile Elements.

6. For new roofs, establish with your professional designer and/or the manufacturer or supplier of the roofing products to be used, the performance of the roof assembly to support people. For any system claiming to be non-fragile a specification must be provided/backed up with documentary evidence.

7. Assemble all the existing information you have about the roof and pass it to the company you have selected for the work, and place copies in the Health and Safety File.

**Choose a competent company**

8. The only way to start the job off properly is to choose a company competent to carry out roof work on your particular form of roof, who should demonstrate at least the following:
   a) A knowledge and understanding of the work and the health and safety laws covering roof work;
   b) That it can manage/eliminate the risks involved in working on roofs;
   c) It has been assessed for competence and employs a trained workforce, preferably holders of a CSCS skills card;
   d) It understands the methods of use and mechanical properties of all the roof materials and systems involved in the installation;
   e) Is a member of a relevant trade association, e.g. one of those listed on the back cover.

*Note See also ACR Information Sheet No1 Selecting a Competent Roofing Contractor, and ACR [CP]005, Guidance Note for Competence and General Fitness Requirements to Work on a Roof (the Black Book).*

**Insist on a method statement**

9. Before letting any person work on a roof, insist that there is a project specific Method Statement [see Annex A] with appropriate Risk Assessments and that they understand it. If necessary, let someone who understands roof working read it and act on their advice. If you subsequently see work being carried on in an unsafe way or not in accordance with the Method Statement, STOP THE WORK. See Annex A and D

10. Discuss the roof work company's requirements for access with them. You may have to shut down areas of production because of the inherent dangers of letting people work under a roof being worked on.

11. Plan any shut down. Remember, the roof workers' access requirements could obstruct passage around your site, affecting your daily operations.

12. Make all your employees aware that roof work is being carried out on your premises and warn them of the dangers associated with such work.

13. Allow adequate time for the company to carry out the work safely. Do not compromise safety by forcing people to rush high-risk work. You will also gain from this decision, because it will ensure that the work on your roof is of the required quality.

**Getting Started**

**Essential Documentation**
14. All roof work must be preceded by a method statement, which sets out in detail how the job in question is to be done. Therefore, the roofing company should be able to provide at least the following:

a) A risk assessment covering the work, which should include managing the risks to people carrying out the work, your employees and others who will be in the vicinity while the work is being carried out;
b) A viable programme for the work;
c) A statement of their requirement for power, ancillary structures associated with roof work and delivery schedules.

15. In addition, they should supply you with a list of those who will be working on the roof, accompanied by proof that they are competent to do so - see paragraph 8c. Do not accept untrained workers unless they are trainees to be closely supervised by competent roof workers.

Pre-start checks

16. Before letting the contractor start work, ensure that they have supplied what they have undertaken to provide for the safety of all concerned. Do not let work start until every necessary safety item is in place.

17. If the roof materials need to be fitted by a specialist contractor, or by a contractor approved by the material manufacturer, check the contractor has the necessary approvals and skills to fit the materials and work on your type of roof.

18. It is recommended that you operate a permit-to-work system for anyone who will access the roof. The system should ensure that everyone:

a) Is competent to work on a roof;
b) Is given safety induction training relevant to your site and specific to the work being undertaken before commencing work on the site.
c) Is properly briefed about hazards associated with a particular roof and safe access to it;
d) Has access to and is competent to use suitable safety equipment.

Note See Annex D for sample of a permit to work

Post-construction maintenance

19. Like any other product, roofs will perform better and for longer if you maintain them properly. But remember, the hazards in maintaining a roof can be greater than for constructing them. Do not allow any company to inspect and maintain your roof without vetting their skills and safety methods first. Do not allow untrained employees to "pop up" for a quick look or to carry out quick repairs.

THE CONTRACTOR

20. It is the job of a roofing contractor to assess the risks associated with working on roofs and, as far as reasonably practicable, to minimise them.

Hazards associated with roof working

Falls

21. The two major hazards associated with working on roofs are: people and objects falling off and through fragile roofs.
22. People fall during roof work because:
   a) There are unguarded openings or edges;
   b) They slip on roof coverings, which are wet, covered in frost or growths or because of the pitch of the roof;
   c) They step on to incompletely fixed sheets or panels, which are fragile;
   d) They step on old roof assemblies, which have deteriorated to become fragile, over time.

Asbestos

23. If you think you may encounter Asbestos, or materials, which may contain Asbestos, there will be serious hazards associated with all such materials, which are covered by their own set of Regulations\(^1\). You must follow the statutory requirements and all people working asbestos must have the appropriate training. Get advice from competent persons, if you do not feel confident about dealing with it yourself.

   **Do not take chances with asbestos and never walk on asbestos or fibre cement sheets or liner sheets.**

\(^1\) see Control of Asbestos Regulations 2012

*Note: See ACR [CP]002 Guidance Note for Safe Working on Fragile Roofs or roofs with fragile elements (the Green Book) for further information

Power Cables

24. Before work commences it must be checked by your electricity supplier that there is no danger posed by overhead electric cables. If there are power lines within the vicinity of the work then specific provisions must be made to ensure that the work can be carried out safely. This may include delaying the work until the power can be turned off.

Removal of materials from the roof

25. Often, and particularly during renovation work, materials, tools and plant will need to be removed from the roof. This must be planned in advance to ensure that the correct method is used to carry out the task safely.

26. Removal methods required will depend on the weight, size, quantity and shape of the materials to be removed and whether the materials are to be reused. Methods to consider are:

27. Mechanical – hoist, crane, forklift, MEWP, etc. Particular caution must be taken when using MEWPs as most Boom type machines are only designed for lifting people and tools and so have very limited lifting capacity.

   Rubbish chute – correctly covered and erected [but are of limited use with roofs having large cladding element.]

28. Materials should not be removed from the roof by an operative using a ladder, unless the materials are light enough and small enough to be carried in such a way that the operative can retain three points of contact on the ladder at all times.

29. As sheeting materials, insulation, gutters etc are inevitably large items relative to their weight dropping materials from a roof is rarely likely to be acceptable practice. If, after a rigorous risk assessment of all of the options, this is deemed to be the safest option, the area below should be fenced off or protection methods put in place to ensure that no one can access the landing area\(^2\).

\(^2\) For more advice see www.roofworkadvice.info
The protection needs to be far enough away from the impact area to ensure that materials that are blown by the wind, break up or bounce cannot reach the fencing/protection. Wind conditions must be reviewed during the work because of the effect that they will have on the safe distances that materials can be dropped. Edge protection must also have more frequent inspection if roofers are leaning on it whilst dropping materials.

2 Note As a guide only, the minimum distance for any exclusion zone should be at least half the drop height or 6 metres (whichever is the greater)

Other hazards

30. Other hazards which must be taken into account include: the use of power tools, sharp edges, swarf, dust [when cutting roofing products], materials stored on a roof, manual handling, etc

31. In addition, you are responsible for providing measures to protect other people who are in the vicinity of the roof (including below the roof) you are working on.

Risk Assessments

32. It is not acceptable to provide cover-all generic risk assessments. While certain parts of generic assessments may apply to all jobs, each job should be looked at on its own, to identify the hazards and assess the risks, to develop systems of work which will remove or reduce these hazards and manage the residual risks.

Planning the work

Choosing the team

33. Choose the team that will work on the roof carefully. In particular, ensure that the person who will supervise the work is competent to do so, as that person will set the standards for the other workers to follow.

34. If introducing inexperienced workers ensure that they are given formal training on health and safety before they go on a roof, particularly with regard to the type of roof and work involved, and that they always work in an area where the supervisor can see them and speak to them. Never allow inexperienced people to work on roofs unsupervised.

Gather Information

35. If there is a Health and Safety File, read it.

36. Always assume existing roofs are fragile unless a competent person decides that it is non-fragile.

Control access to and movement over the roof

37. Provide dedicated and safe access onto the roof, and ensure that all persons access the roof from these point(s) only. Whenever possible, access should be via a stair-tower. However, if ladders are used:
   a) They should be tied at the top and extend sufficiently past the access point level, typically a minimum of 1m, to provide an adequate handhold;
   b) They should not be more than 9m long, without a rest platform; and
   c) The person using it should have both hands free to climb the ladder.

38. It is not good practice to allow people to walk on roofs for safety reasons and to prevent roof damage. Where it is necessary to protect roofs or gain access over fragile surfaces, stagings or other forms of

For more advice see www.roofworkadvice.info
work platforms should always be provided.

3Note- Stagings should be secured to prevent accidental displacement, including by the wind. Remove them when they are not in use.

39. If walking over large areas of roof is unavoidable, provide obviously demarcated dedicated walking areas and enforce their use. Ensure that persons on the roof cannot approach fragile areas or unprotected edges by an effective means: either by covering or by providing an effective barrier. High visibility tapes, used on their own, are not acceptable.

40. Minimise the amount of walking on roofs, by ensuring that materials necessary for the work are deposited as close as possible to the point at which they will be required. Provide dedicated walkways for carrying materials to their point of use.

41. Never allow people to walk on rooflights, even those categorised as non-fragile as this can damage protective coatings and lead to premature deterioration and potentially becoming fragile earlier in their service lives.

42. Remember, non-fragile assemblies can be rendered fragile if they are not fixed down in accordance with the manufacturers' instructions.

Storing materials

43. While individual components may be light, in packages they may be quite heavy. Provided a means of spreading the load where they are placed/stacked.

44. When stacking materials on the roof, make sure that you find out the maximum load that the roof can support. If in doubt, consult a structural engineer and never exceed the maximum load allowed on a roof.

45. Ensure that all materials stored on the roof are secured against displacement by wind or accident.4

4Note - Materials on the ground may also be subject to wind uplift.

46. Arrange the stacks of material so that the item to be used first is at the top of the stack and so on. This will stop roof workers having to separate the delivered items to find the one that they need to use. In addition, ensure that workers are supplied with sufficient fixings to allow them to fully fix the sheets as specified as they are laid.

47. Remember, even non-fragile roof assemblies may be rendered fragile by heavy loads or constant traffic.

Limiting loads carried by people

48. Regulations covering manual handling4 have been in place since 1992. These Regulations require you to avoid, so far as is reasonably practicable, the need for manual handling of heavy or awkward loads. The amount that can safely be handled will also vary according to weather conditions.


Fixing the assembly

49. Always fix roof assemblies in accordance with the manufacturers' recommendations, e.g. sequence of laying down the sheets, number of fixings, etc.

50. Never allow partial fixing only of roof sheets. Complete all work as you go. Each sheet should be securely fixed, allowing progress of the work as it is laid down, with the correct number of fixings as
required. Remember wind can lift un-fixed sheets therefore, at the end of each day; ensure that all sheets are securely fixed.

**Scheduling deliveries**

51. Avoid material deliveries at ends of shifts, because workers may hurry to finish the job and, inadvertently, take risks they may not normally take.

**Provision of fall protection**

52. To prevent people and materials from falling from the roof, edge protection must be provided at the eaves and gable of roofs and at any other roof edge off which workers on the roof can fall.

**Nets**

53. The Advisory Committee for Roofwork considers that properly erected safety nets should be the preferred method of additional fall protection. Where nets are provided you must ensure that they are erected as close as possible under the working area and that:

a) They satisfy the current relevant standards;

b) They are erected properly by competent people, trained and assessed to FASET standards, who are able to prove their competence through a FASET safety net riggers card;

c) There are no obstructions within the nets arresting distance;

d) Competent people regularly inspect them.

*Note See ACR[CP]003 – Recommended Practice for Use of Safety nets for Roofwork – (the Blue Book)*

54. Nets may be removed when a non-fragile roof is in place (minimum ACR[M]001: class C), but see Annex B.

**Personal Protective Equipment [PPE]**

55. Collective fall arrest systems (such as safety nets) are to be preferred to personal fall protective systems such as safety harnesses and lanyards. However where, following a risk assessment, personal fall protection equipment is considered the most effective means of fall protection, you must issue this to your workers. There are two main types:

**Work Restraint:** which physically prevents a person from reaching any position from where a fall is possible.

**Fall Arrest:** which allows a person to reach a position from where a fall is possible but limits the distance and consequence of a fall should it occur.

It is essential that the correct type of equipment is selected for the job and where there is a choice of which system to use Work Restraint should always be selected in preference to Fall Arrest.

In addition, you must:

a) Train operatives in its proper use, including fault recognition and storage;

b) Ensure that there is a rescue plan in place and rescue equipment so that fallers can be rescued immediately;

c) Ensure that the certificates showing that the equipment is in working order and meets the requirements of the Regulations accompany the PPE.

For more advice see [www.roofworkadvice.info](http://www.roofworkadvice.info)
56. Before using Personal Fall Arrest equipment ensure that there are no obstructions within the fall arresting distance.

57. Anchorage systems for work restraint and fall arrest must have a valid certificate of inspection. Remember the removal of roof sheets may affect the integrity of systems. If in doubt consult the installer of the system.

**Construction Drawings**

58. If the safety of the workers depends on a set pattern of fixing roof sheets ensure that a drawing, which sets out in detail the sequence of operations, is kept on the site. Whatever method is used to transmit this information to the workers, it must be in a form that is understood by all operatives and should be referred to in the method statement.

59. If the sequence of the work is altered, do not restart until you are sure that the new work sequence does not increase the risks to the roof workers and, if necessary, that the method statement has been amended.

**Reporting Incidents**

60. Today’s “near miss” is tomorrow’s accident so it is essential to set up a system for roof workers to report any accidents and incidents, regardless of how minor they think they are. A heavy stumble could make a non-fragile assembly fragile.

61. After any such report, the area of roof in question should be inspected by a competent person, to ensure its non-fragility has not been affected. You must act on the competent person's advice.

62. Similarly, if safety equipment, e.g., nets or harnesses are used to arrest a fall, they should be taken out of use until they have been inspected by a person competent and passed as fit for reuse. Any equipment deemed as not safe to use must be quarantined and destroyed.

**Method statements**

63. Having considered all the points in paragraphs 21 to 62, write a job-specific method statement - also see Annex A.

**DESIGNERS OF NEW ROOFS**

**The Law**

64. Whoever designs the roof assembly assumes the responsibilities of a designer under the Construction (Design and Management) Regulations 2015 which require you to give due consideration to removing the hazards at source. Only when this is not possible, you must reduce the risk from the hazard and inform the Contractor of the residual risk, so it can be included in the Health and Safety Plan.

**Designing in fall protection**

65. Workers require protection from falls when they construct and maintain roofs. Therefore, consider this at the design stage, by thinking about how temporary edge protection could be fixed to the structure during roof construction. For safety during maintenance, consider the provision of a permanent parapet or barrier at the eaves and along the gable.

For more advice see [www.roofworkadvice.info](http://www.roofworkadvice.info)
66. Consider the spacing and layout of any rooflights to minimise the risk of accidental foot traffic. In addition, avoid locating rooflights too close to the edge of a roof.

**Provision of access to maintain the roof**

67. People who have to work on roofs must be able to access the roof safely. Therefore, consider designing in systems that will minimise the risks associated with getting on to the roof. For example, you might consider
   a) the provision of permanent protected lockable ladders, or
   b) permanent ladder stops at the eaves, above a solid and even hardstanding, or
   c) a level hardstanding, which can be used for towers or to position suitable powered access equipment, or
   d) an internal access hatch.

**Specifying Roof Assemblies**

68. You should specify a non-fragile assembly. Tests for determining non-fragility are given in The ACR “Red Book”.

6 Note - ACR[M]001, Test for Non-Fragility of Large Element Roofing Assemblies.

69. If you mix and match products you could end up with a fragile construction. Always seek advice from a competent person before you mix and match products if it is not possible to discuss the proposed change with the relevant manufacturers.

70. The supplier of any roof assembly specified should be able to advise you of the classification of this assembly and, on request, provide the test data to support the classification.

71. Remember, the preferred method of fall protection may be nets. In this case you must ensure that any supporting structure, which will support nets, can carry the loads that it will be subjected to. Discuss the requirements for nets with a competent supplier of nets.

72. Remember, also, that the environment in which roofs exist can change. Such changes may have a dramatic effect on the mechanical properties of the assembly you specify for the roof. Changes in condition, which would cause this, should be given prominence in the Health and Safety File.

73. When incorporating roof lights, find out how weathering will change the colour of the roof and the rooflights. Specify rooflights, which do not discolour to become indistinguishable from the rest of the roof. It is advisable to specify weatherproof caps to the rooflight fixings of a distinctly different colour to the other fixings.

*NOTE: Conventionally, poppy-red fixings are used.*

74. To take account of the maintenance of the roof, specify one of the following programmes, which will fulfil the requirements of your roof:

**Low maintenance roofs**

75. Low maintenance roofs are those, which require very infrequent access, e.g. simple duo-pitched roofs, or low pitched roofs requiring infrequent access for roof maintenance only, by experienced roofworkers. The minimum standard for this type of roof is a Class C assembly to ACR[M]001.

For more advice see [www.roofworkadvice.info](http://www.roofworkadvice.info)
Medium maintenance roofs
76. Medium maintenance roofs are those, which require regular access for maintenance of the roof only, by experienced roof workers. The minimum standard for this type of roof is a Class B assembly, to ACR[M]001

High maintenance roofs
77. High maintenance roofs are those, which require frequent access for maintenance, e.g. roofs with penetrations for plant exhausts, etc. The minimum requirement for this type of roof is a Class B assembly to ACR[M]001. In addition, provide dedicated walkways with handrails, if required, to reach the item of plant to be maintained.

THE MANUFACTURER
78. Manufacturers of sheets for use in roof assemblies also have responsibilities:
   a) They should test their sheets to be non-fragile in accordance with ACR[M]001, in which the components are tested as part of an assembly and, as such, the type of and number of fixings, size of washers and the skills with which contractors apply these are relevant to the non-fragile performance of the assembly.
   b) For new roofs, the conditions affecting guarantees of non-fragility should be clearly stated [and given prominence in the Health and Safety File, which would be handed over to the building owner at the end of the contract];
   c) Any claims for non-fragility of roofing assemblies for a given period of time will depend on each component performing to the required level throughout that period. If any component fails to perform for the required period, it is likely that the assembly will become fragile during the period;
   d) They should provide specific information to be included in the Health and Safety File relating to the maintenance of their product and information about any issue, which is relevant to non-fragility and safety;

BIBLIOGRAPHY
Some useful references include:
1. HS(G)33: Health and Safety in Roofwork [HSE]
2. The Red Book ACR[M]001 Test for Fragility of Roofing Assemblies [ACR]
3. Profiled Sheet Roofing and Cladding - A Guide to Good Practice [NFRC]
4. Technical Guides [various] [MCRMA ]
5. BS 5427 Code of Practice for Performance and loading criteria for profiled sheeting in building
6. Building Regulations - Approved Documents B, F and L
7. Cladding Manufacturers' Literature [various]
8. INDG401 Rev 2 Working at Height – A brief guide [HSE]
10. The Black Book ACR[CP]005 Guidance Note for Competence and General Fitness Requirements to Work on a Roof [ACR]
11. ACR Information Sheet 1 Selecting a Competent Roofing Contractor [ACR]
12. The Magenta Book ACR[CP]007 The Use of Horizontal Safety Lines in Roofwork [ACR]
Annex A - METHOD STATEMENTS

A1. Working on a roof is high-risk work, which requires the closest attention to detail at all times. There should be a job specific method statement in writing, agreed and understood by all parties before the work starts. Rigorous supervision is needed to ensure that the agreed method is followed in practice, but there should also be a system to allow necessary changes to be made and validated.

A2. Safety method statements should be clear, concise and include simple sketches where appropriate.

A3. The following general questions are particularly relevant to a low-pitched industrial roof consisting of inner sheet, insulation layer and profiled metal top sheet. It is not an exhaustive checklist, but is intended to act as a prompt when method statements are prepared and reviewed.

A4. The equipment required to carry out the work safely should be clearly specified, and there should be a system of inspection and training to ensure that the equipment used is in good condition and fit for its purpose.

A5. Non-standard or unusual systems will require special consideration. There may also be risks specific to an individual site, which will need to be addressed (e.g. the presence of overhead power lines).

Some of the issues, which need to be addressed by a method statement, are given in Table A1.

<table>
<thead>
<tr>
<th>HAZARD</th>
<th>PROVISION TO CONTROL HAZARD</th>
</tr>
</thead>
<tbody>
<tr>
<td>FALLING when getting on and off ladders at eaves</td>
<td>1. Access to roof: have access points been discussed with the roofing gang in order to reduce travel over the roof to a minimum? If ladders are used (as opposed to towers) are means available for hoisting smaller components not craned up? Has the stability of long ladders been considered, e.g. will they need staying to reduce whip? Will Ladders extend at least 1.0m above access point to provide handholds?</td>
</tr>
<tr>
<td>FALLING when walking past open edges to fetch materials</td>
<td></td>
</tr>
<tr>
<td>FALLING from steel frame when unslinging</td>
<td>2. Materials handling: how are roofing packs loaded out onto the roof? Is this planned so as to reduce travel when fetching sheets and does it allow for protected routes/safe means of access? Splitting packs of different sheet size and reassembling them at ground level can save travel at height. Back loading onto the completed roof can reduce travel past open edges.</td>
</tr>
</tbody>
</table>

Table A1 - Important hazards to be addressed in Method Statements

For more advice see www.roofworkadvice.info
4. Edge protection: is it provided at eaves, gable ends and other open edges and programmed in before the roofers start work? Protection will also be required at ridges unless work progresses at the same rate on both roof slopes. What are the access arrangements for scaffolders installing edge protection? Can this be done at ground level before the structural member is raised and placed, or from mobile access equipment? Is effective edge protection provided at the gable end of the ridge?

5. Gutter fixing: how will workers be protected from falling? Peripheral edge protection erected for roofers will not be sufficient at this phase. Has the use of mobile access equipment been considered as the first priority? If the use of a temporary horizontal and fall arrest system is specified, who will erect and test the line?

6. Leading edge protection: how will this be achieved? Has the use of safety nets been considered in the light of the legal duties/risk assessment for the total roofing operation? If Stagings are to be used as working platforms are they stable and of adequate width with handrails/running lines specified to suit the working practices? Work, which requires kneeling or bending needs careful attention as the operator's centre of gravity can extend over the leading edge. What method is specified for moving stagings?

7. Roofs should be non-fragile. Have all assemblies comprising, eg, metal liner panels, rooflights, etc, been specified to be non-fragile by the designer? If not, the design decision should be reviewed as a matter of urgency in terms of the designer's duties under the Construction (Design and Management) Regulations.

The total number and exact type of fixings specified should be installed. Until this is achieved, assemblies must be treated as fragile.

8. For refurbishment work on existing roofs, are there any fragile areas on the roof, e.g. roof-lights? These will have to be protected as soon as laid. How will this be achieved? If covers are to be used, are they strong enough, taking account of the span required. How will they be fixed, and what is the system for their removal?

9. Zoning of the roof into working and non-working areas can reduce the number of fragile areas, which need to be protected. The system for marking out the zones and progressing the work should be specified. If the barriers marking the edge of the zones are within 2m of fragile material, then they must be strong and rigid enough to support the weight of a person.

For more advice see www.roofworkadvice.info
who loses his balance.

Zoning should take account of travel to the working area by the roofers and also the need for materials to be moved around the roof. The system should ensure that all fragile areas within the working zones and adjacent to access routes are protected.

10. Methods of work are important. Is the method of work to be adopted when laying the first sheet specified? Some architectural features, e.g. hip ends, will require modifications to the working methods. These should be fully described. Has the fixing of ridge capping/flashing been included in the system of work?

11. When is a roof non-fragile? Does the method statement make it clear at what stage of construction an assembly, such as a lining panel installation becomes load bearing? The number and type of fixings should be stated and installed; until this is achieved, they must be treated as fragile

12. Communications: what are the arrangements for ensuring the method statement is communicated to and agreed with the roofing gang?

13. Supervision: what are the arrangements for ensuring that the work proceeds according to the method statement?

14. Modifications: what are the arrangements for agreeing modifications to the method statement and ensuring that these are communicated to the roofing gang?

15. Validation: what are the arrangements for ensuring that the company safety adviser or other nominated competent person has reviewed and is satisfied with the system of work proposed?

16. Has provision been made to exclude people from the area below the roof work, to prevent unauthorised access to the roof and the work areas at ground level?

17. Is there a rescue plan to recover a person from a safety net, or if appropriate suspended in a harness, and move them to a safe place accessible by the emergency services? The emergency services should not be relied upon to carry out a rescue.
ANNEX B: CLASS C ASSEMBLIES

Moving of nets under Class C assemblies

B1. Roofing assemblies classified as class C under ACR[M]001 are non-fragile. To obtain Class C, the assembly has to survive a single impact applied in the worst possible position on that assembly. Thus whilst being a single drop of exactly the same magnitude as the SIR 30 test, it is actually a more onerous test\(^1\), which has been demonstrated by testing. An assembly just attaining Class C is, therefore, likely to be safer than a material just attaining non-fragility under SIR 30.

\(^1\)Note - The SIR 30 test was a single drop into the centre of a sheet. Experience shows that the worst location is invariably elsewhere because of the influence of the fixings, sheet profiles, etc.

B2. That Class C is non-fragile means the following:

a) Once a Class C assembly [sheet or liner] is fully fixed, safety nets may be withdrawn from under them and moved on [leapfrogged]. But note:
   
   (i) The netting, which remains in place, must protect at least 3.0m behind the leading edge and 3.0m in front of the leading edge, unless alternative leading edge protection is provided. In practice, because of the way nets are supplied, this will usually mean that the netting remaining in place would be 1[one] full bay behind the leading edge and the full bay containing the leading edge.

   (ii) Special consideration needs to be given to the 1st tier [strip] at the gable eaves, as the edge supports are different. Therefore, evidence that the installation achieved Class C in the support condition adopted at this location should be provided.

b) In a built up roof assembly [with a Class C liner assembly], if the top sheet is subsequently removed, no additional precautions need to be taken whilst working alongside the Class C liner assembly, provided it is still fully fixed, undamaged and was unaffected by the removal process of the top sheet (or the reason for it's removal).

B3. Class C is the lowest class of non-fragile assembly and, particularly if engineered to pass the test criteria, may be close to the boundary between fragile and non-fragile. Its classification and use therefore requires the following to be taken into account:

a) Normal industry recommended best practice is that Class 'C' assemblies should never intentionally be walked upon\(^2\) and appropriate temporary access equipment, such as crawling boards, etc, should always be used.

\(^2\)Note- Accidental damage to such assemblies might render the classification void.

b) A Class C assembly must be treated like any other safety critical item, eg, a safety net. Therefore, any adverse occurrence that could affect its fitness for purpose should trigger an inspection. If an assembly has been subjected to an impact load (such as a trip or stumble), it and the adjoining fitted panels must, subsequently, be treated as a fragile area and identified and protected accordingly, until it has been replaced and the adjoining fitted panels inspected by a competent person and replaced if necessary. Procedures to ensure this happens must be in place.

c) The workforce must be aware of these limitations, as required by Regulations 3 and 8 of the Managing Health and Safety at Work Regulations [MHSWR].

d) Any person falling on a class C assembly may make it fragile for subsequent loads. While persons may be capable of self-recovery from a fall or stumble, where they are unable to, the additional weight of a rescuer may cause the assembly to fail.
e) Because all non-fragility classifications depend on the fixings of assemblies, any adjoining assemblies may also have become fragile\(^3\). In such situations the incident panel and all adjoining panels must be treated as fragile. This is a foreseeable risk of selecting Class C assemblies. Therefore, where class C assemblies are being used, rescue plans must be developed in advance of work starting.

f) Again, in accordance with Reg. 5 and 8 of the MHSWR, the workforce needs to be aware of the Rescue Procedures.

\(^3\)Note - This includes adjoining Class B assemblies.

B4. All current non-fragility classifications depend upon correct workmanship during installation. In particular the manufacturer's specification for fixings and other components is of absolute importance and must not be altered, without the manufacturer's written agreement. The type, number, location and spacing of fixings must be clear and completely unambiguous in their meaning.

B5. An assembly must be fully fixed before the assembly may be treated as non-fragile. In particular partially fixing of sheets (commonly known as 'stitching') to progress the work quickly, followed on by fully fixing later, is dangerous. Any roof found in such a state must be treated as fragile regardless of the classification of the components being used in its construction.
ANNEX C PROVISION OF NON-FRAGILE ROOFS

Aide memoir for designers specifiers and inspectors

C1. Designers of roofs and others who specify roofs should be aware that any doubt about the non-fragility of a roof assembly could lead to the roof being classed as fragile, and extra costs may be associated with the additional risks that have to be managed while it is being constructed. Some of the points that need to be addressed are given below and, in taking them into consideration, the views of the manufacturer and/or the Competent Person[s] should be taken into account. The answers to many of these questions should be included in the Health and Safety File.

Note 1 Lack of documented evidence to support claims for non-fragility may cast doubt about claims.

Points to be considered

C2. The points listed below apply to the whole roof and not just the rooflights.

1. Is the whole roof a non-fragile assembly in accordance with ACR[M]001:?
2. If the roof is not non-fragile, why not?
3. If the roof is non-fragile, what ACR[M]001 classification does it achieve?
4. For a non-fragile assembly, documented evidence of the test data relating to the assembly should be available. If it is not, why not?
5. What are the maximum and minimum purlin or other support spacings that the ACR[M]001 non-fragile classification applies to? Does this cover all purlin or support spacings on this roof?
6. If the roof is a curved or barrel-vaulted roof, what are the maximum and minimum radii that the ACR[M]001 non-fragility classification applies to? Does this cover the radius of this roof?
7. If the roof incorporates hips or valleys what is the maximum angle on the hip or valley that has been tested? Has adequate support been provided at the hip or valley?
8. Have the end and side lap dimensions been determined and adhered to on the installation?
9. Have the locations of rooflights been clearly marked2 with the use of poppy-red headed fasteners?

Note 2 This is recommended good practice, for ease of identification during future maintenance.

10. Roof assemblies can be made up of different materials, eg, steel, fibre-cement, GRP, aluminium, polycarbonate, PVC, single plies, bitumen felt etc. Is there an issue regarding different rates of expansion and contraction?
11. In insulated sandwich panel roofs, is there adequate bearing for each panel and rooflight at the end lap? Is there sufficient bearing to accommodate site erection and material tolerances?
12. Can effective fall prevention measures be erected correctly in the appropriate areas?
   If not, does the design include for the provision of safety nets? And have the nets been installed correctly below any fragile or open areas?
   If not, what alternative fall protection measures have been provided?
13. What has been provided in the way of fall protection for workers who will maintain the roofs in the future? If nothing, why not?
14. Does the roof have fixed dedicated means of access at fixed points, to provide safe access in the future? If not, why not?
15. Is signage arranged to identify any risk[s]? In addition, is all signage easy to read, unambiguous and durable? Are there sufficient signs around the buildings to be obvious to anyone approaching?
For use as roof inspection risk assessment only

Risks Associated
- Falls from heights
- Falls through fragile materials
- High winds
- Slip on wet or icy surface
- Other

Assessment by

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<th>Roof Access</th>
<th>Access Hatch</th>
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<td>Man Hoist</td>
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<th>Check current test cert</th>
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<td>Is PPE available and is someone available to demonstrate how to attach the PPE lanyard to the safety line system.</td>
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<td></td>
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<tr>
<td>Other</td>
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Brief description of work required identified by the inspection

Is a method statement and risk assessment required prior to the work being executed?

Signed

Copied to

For more advice see www.roofworkadvice.info
Annex D Roof work permit
Recommended Practice for Work on Profiled Sheeted Roofs

Permit to Work at height

This permit is only valid when all sections are complete. If you are in doubt or don't understand, then please ask.
Do not proceed with your work until this permit has been authorised by the relevant member of staff.

Job description:

Location:

Type of equipment to be used:
Ladders  Steps  Mobile Platform  Scaffold  Safety cage

Precautions to be taken (to be completed by the person requesting this permit)

<table>
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<tr>
<th>Yes</th>
<th>No</th>
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</thead>
<tbody>
<tr>
<td>Are you competent to carry out the work?</td>
<td></td>
<td></td>
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<tr>
<td>Do you have a license to operate or erect/dismantle the equipment being used?</td>
<td></td>
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<tr>
<td>Have all relevant departments been advised of the work being undertaken?</td>
<td></td>
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<tr>
<td>Does the electrical supply need to be switched off, isolated and locked off?</td>
<td></td>
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<tr>
<td>Will you be carrying out hot works or generating sparks? If yes you need a hot work permit</td>
<td></td>
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<tr>
<td>Are caution / danger signs / barricades required and in place?</td>
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<tr>
<td>Are all necessary safety nets, edge protection, safety lines, staging etc in place?</td>
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<tr>
<td>Is there a rescue plan and is the rescue equipment in place?</td>
<td></td>
<td></td>
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<tr>
<td>Do you have appropriate personal protective equipment?</td>
<td></td>
<td></td>
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<tr>
<td>Are all the tools and equipment safe, in good condition and suitable for the job?</td>
<td></td>
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<tr>
<td>Are there any overhead services above or adjacent to the proposed work area?</td>
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<td></td>
</tr>
<tr>
<td>All ladders must be tied off and or footed at all times</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>The safety cage should ideally be fitted with integrated controls and must be securely fastened to the Fork Lift Truck at all times</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>A safety harness MUST be worn whilst on the Mobile Platform and Safety cage at all times</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>A hard hat MUST be worn at all times</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Are the weather conditions acceptable for the task being undertaken?</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Are the floor conditions stable and suitable for the equipment being used?</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Will the safety components (e.g., riggers etc) of the equipment be used at all times?</td>
<td>Yes</td>
<td></td>
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</tbody>
</table>

Isolated by:  Position:  Date:  Time:

Other precautions Required:

Other safety equipment required:

AUTHORISATION (to be completed by the person issuing this permit)
I verify the above location has been examined, the precautions on the checklist have been taken and that permission is authorised for the above work only:

Permit issued by:  Date:  Time:

Position:  Expiry Date  Expiry Time:

ACCEPTANCE (to be completed by the person accepting this permit)
I verify the above location has been examined, the precautions on the checklist have been taken and that permission is authorised for the above work only:

Name of person accepting this permit:  Company:

Signature:  Date:  Time:

HANDBACK /CANCELLATION (to be completed by the person who issued this permit)
I confirm the work has been completed / cancelled (delete accordingly) and the area left in a safe tidy condition

Name:  Position:

Signature:  Date:  Time:

For more advice see www.roofworkadvice.info

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Annex E Constituents of Task Group and
Revision Information

E1. The following Associations were represented on the task group:

- Fall Arrest Safety Equipment Training (FASET);
- Fibre-Cement Manufacturers Association (FCMA);
- Flat Roofing Alliance (FRA);
- Health and Safety Executive (HSE);
- Metal Cladding and Roofing Manufacturers Association (MCRMA);
- National Association of Rooﬂight Manufacturers (NARM);
- The National Federation of Roofing Contractors (NFRC); and
- Rural, Industrial, Design and Building Association (RIDBA)

By the following people:

- Mr V Cranmer Co-opted member
- Ms L Cowen HSE, Secretary
- Mr C E Dyer MCRMA
- Mr P Franklin FRA, Chairman
- Mr R Harris FASET
- Mr W Hawker NARM
- Mr A M Hutchinson FCMA
- Revd. M James RIDBA
- Mr C Johnson FRA
- Mr C Lister NARM
- Mr A Maitra HSE CDTU
- Mr I McKane NARM
- Mr P Ogilvie NARM
- Mr C J Pearce NFRC
- Mr P M Roberts MCRMA
- Mr C Sproul NFRC
- Mr J Stonell NARM
- Mr D A B Thomas* HSE TD2
- Mr B D Watson MCRMA
*Replaced by M E Holden HSE CDTU

E2 This Guide was 1st revised in 2006 and then updated in 2008 by the following ACR members:

- Mr R Bennett MCRMA
- Mr M Long NFRC
- Mr A Lowther RIDBA

E3. This version of Guide was revised and updated in 2014 by the following ACR members:

- Mr A Lowther RIDBA
- Mr J. Grieve HSE
- Mr G Willmott BSIF-HSG, Chairman
- Mr P Trew EPIC

For more advice see www.roofworkadvice.info
E4 The fourth edition of the document contains the following technical changes.

Constituents of working group
moved to separate appendix

Foreword
minor change

Between Para 4/5
case study added

Para 6
minor change to describe loading

Para 8
removal of SCORE and addition of further reference documents

Para14
clarification of who might be affected

Para15
reference to untrained workers

Para17
clarification wording

Para 18
Reference to safety induction

Para 21
reference to pitch of roof and minor wording alterations

Para 23
reference to training

Para 34,37 & 39
minor wording change

Para 41
inclusion of non fragile rooflights

Para 43
minor wording change

Para 45
inclusion of wind load

Para 46
reference to fully fixing sheets

Para 50
minor word change

Para 50
reference to CSCS changed to FASET and addition of addition guidance document

Para 68-77
reordered and renumbered

Appendix D
added integrated control recommendation for safety cages

Rear cover
Disclaimer updated

E5 - The fifth edition of the document was revised in August 2016 to update dates of legislation

For more advice see www.roofworkadvice.info
This document can be downloaded free of charge from the ACR website at

www.roofworkadvice.info

Where the up to date list of members can also be found

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St Asaph
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e-mail via website: www.wahsa.org.uk

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The Advisory Committee for Roof safety (ACR) is a body dedicated to making working on roofs safer. Its membership is made up of nominees from the major roof working Federations and Associations and the Health and Safety Executive, who provide the experience of many years of involvement in working on roofs in the advice given in their documents.