

Control and management of noise risks in CONCRETE AND CEMENT PRODUCTS

Table 2: Management of noise risks

(see L108 “Controlling noise at work”, ISBN 0-7176-6164-4, available from HSE Books at www.hsebooks.co.uk)

Issue	Expectation	References and related guidance
Workplace design for reduced noise exposure	<p>Table 1 deals with established technical and organisational noise control measures for a range of high noise risk activities or processes. In addition to these measures, in general there will be benefits to be gained in considering and applying general principles of workplace design for reducing noise exposure. For example:</p> <ul style="list-style-type: none"> • appropriate use of acoustic absorption within buildings can reduce or limit the effects of reflected sound (specialist help will be needed to put this in to effect); • careful planning could segregate noisy machines from other areas where quiet operations are carried out; • the number of employees working in noisy areas should be kept to a minimum; • screens, barriers or walls can be placed between the source of the noise and the people to stop or reduce the direct sound; • noise refuges can be a practical solution in situations where noise control is very difficult, or where only occasional attendance in noisy areas is necessary; • increasing the distance between a person and the noise source can reduce noise exposure considerably. 	<p>Workplace design (L108 paragraphs 198-200, 212-219, 234) (see <i>HSE noise web pages</i>)</p> <p>Example: Coating pans (see <i>HSE noise web pages</i>)</p> <p>Example: Flexible acoustic screening material (HSG138 #4) (see <i>HSE noise web pages</i>)</p> <p>Example: Acoustic refuges (HSG138 #11) (see <i>HSE noise web pages</i>)</p> <p>Example: Use of absorption in a noise control programme - http://www.hse.gov.uk/noise/soundsolutions/ss10.htm</p>
Selection of tools and machinery	<p>Employers should demonstrate a positive purchasing policy which makes sure noise is taken into account when selecting machinery.</p> <p>For many types of equipment there will be models designed to be less noisy. When selecting equipment to buy or hire, besides ensuring that the tool or equipment is generally suitable for the job, employers should:</p> <ul style="list-style-type: none"> • ask about likely noise levels for the intended use(s); • check that manufacturers’ noise data is representative of likely noise levels for the intended use(s); • use the noise information to compare machines before making the final choice; • look for warnings in the instruction book to see if particular uses of the tool or machines are likely to cause unusually high noise; • be aware that even where manufacturers declare that their tools or machines produce less than 70 dB, levels may sometimes be much greater in your workplace. 	<p>Low noise machines (L108 paragraphs 72-74, 201-202) (see <i>HSE noise web pages</i>)</p> <p>Noise at work – advice for employers - http://www.hse.gov.uk/pubns/indg362.pdf</p> <p>L108 Part 4: Selecting Quieter Tools and Machinery</p>
Limiting exposure duration	<p>Restriction of the time spent in noisy areas, or doing noisy tasks, can be effective in reducing noise exposures, as can ensuring that noisy devices are only used when they are actually needed.</p> <p>Where some employees do noisy jobs all day or week, and others do quieter ones, job rotation should be considered. This might need you to train employees to carry out other jobs. This system will reduce the noise exposure of some employees while increasing that of others, so care and judgement is needed. Employees will need to be rotated away from noisy jobs for a significant proportion of time to make an appreciable difference to their daily exposure.</p> <p>The noise exposure ready-reckoner and exposure calculators can be used to indicate the reductions in exposure that can be achieved by reducing the duration of exposure to noise.</p>	<p>HSE Noise exposure ready-reckoner (see <i>HSE noise web pages</i>)</p> <p>HSE noise exposure calculators - http://www.hse.gov.uk/noise/calculator.htm</p>

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Health surveillance (audiometry)	<p>Health surveillance for noise-induced hearing damage should be in place for employees whose daily personal noise exposure is frequently above 85 dB, or who are frequently exposed to peak sound pressure levels above 137 dB. Health surveillance should also be provided where exposures are lower, but where the employee may be particularly sensitive to noise. As a minimum, a programme of health surveillance should include:</p> <ul style="list-style-type: none"> • audiometric testing (baseline assessment on first entering a job involving noise exposure, annual testing for two years, then three yearly testing) • arrangements to receive medical advice on management of affected employees • arrangements to receive anonymised information to demonstrate effectiveness of controls 	<p>Health surveillance – http://www.hse.gov.uk/noise/healthsurveillance.htm</p> <p>Noise at work – advice for employers - http://www.hse.gov.uk/pubns/indg362.pdf</p> <p>Protect your hearing or lose it! (advice for employees) - http://www.hse.gov.uk/pubns/indg363.pdf</p> <p>L108 Part 6: Health Surveillance for Hearing Damage</p>
Hearing Protection	<p>Providing personal hearing protection should be one of the first considerations on discovering a risk to the health of your employees due to noise. It should not be used as an alternative to controlling noise by technical and organisational means, but for tackling the immediate risk while other control measures are being developed. In the longer term, it should be used where there is a need to provide additional protection beyond what has been achieved through noise control.</p> <p>Hearing protection use should be targeted at particular noisy jobs and activities. Personal hearing protection must be supplied by the employer to any employee whose daily personal noise exposure is likely to exceed 85 dB, or who are likely to be exposed to peak sound pressure levels above 137 dB. The employee must use the protection provided. The employer should ensure that, through the use of hearing protection, the employee's effective noise exposure is reduced to at least below the above levels.</p> <p>Important factors to consider in the selection and use of hearing protection include:</p> <ul style="list-style-type: none"> • Types of protector, and suitability for the work being carried out; • Noise reduction (attenuation) offered by the protector, including taking account of 'real-world' factors, and also ensuring that not too much protection is provided; • Compatibility with other safety equipment; • Pattern of the noise exposure; • The need to communicate and hear warning sounds; • Environmental factors such as heat, humidity, dust and dirt; • Cost of maintenance or replacement; • Comfort and user preference; • Medical disorders suffered by the wearer. <p>The use of personal hearing protection should be managed through the provision of appropriate information, instruction and training for employees, supervision and the use of appropriately defined and demarcated Hearing Protection Zones.</p>	<p>Hearing protection – general advice - http://www.hse.gov.uk/noise/hearingprotection.htm</p> <p>HSE hearing protection calculator - http://www.hse.gov.uk/noise/hearingcalc.xls</p> <p>Hearing protection – Over-protection (L108 paragraphs 287 – 288)</p> <p>Hearing protection – real-world factors (L108 paragraphs 282 – 286) (<i>see HSE noise web pages</i>)</p> <p>Hearing protection – advice on issuing (L108 paragraphs 301 – 305) (<i>see HSE noise web pages</i>)</p> <p>Noise at work – advice for employers - http://www.hse.gov.uk/pubns/indg362.pdf</p> <p>Protect your hearing or lose it! (advice for employees) - http://www.hse.gov.uk/pubns/indg363.pdf</p> <p>L108 Part 5: Hearing Protection – Selection, Use, Care and Maintenance</p>

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Information, instruction and training	<p>It is important that employees understand the risks they may be exposed to. Where they are at risk from noise their employer should at least tell them:</p> <ul style="list-style-type: none"> • the likely noise exposure and the risk to hearing this noise creates; • what their employer is doing to control risks and exposures; • where and how people can obtain hearing protection; • how to report defects in hearing protection and noise-control equipment • what their duties are under the Control of Noise at Work Regulations 2005; • what they should do to minimise the risk, such as the proper way to use hearing protection and other noise-control equipment, how to look after it and store it, and where to use it; • the health surveillance systems. <p>This information should be given in a way the employee can be expected to understand (for example special arrangements might need to be made if the employee does not understand English or cannot read).</p> <p>To establish whether information, instruction and training has been carried out effectively, look for evidence that personal hearing protection is being fully and properly used, that noise control equipment is being used, and that procedures for low noise working are being followed.</p>	<p>What do I need to tell my employees? - http://www.hse.gov.uk/noise/tell.htm</p> <p>Employee and safety representatives - http://www.hse.gov.uk/noise/safetyrep.htm</p> <p>Noise at work – advice for employers - http://www.hse.gov.uk/pubns/indg362.pdf</p> <p>Protect your hearing or lose it! (advice for employees) - http://www.hse.gov.uk/pubns/indg363.pdf</p>

See also Table 1. Established noise control methods for high-risk activities

PLEASE FAX COMPLETED FORM TO: 020 7717 6681
Management of noise risks in Concrete and Cement products – Feedback Form

Your views are important to us so that we can improve the way we communicate information on managing the risks from noise. We would be grateful if you could spare a couple of minutes to fill in this form and fax it back to us at the above number. Any information you provide will be treated in confidence and will only be used for research purposes. You do not have to give your contact details.

Please rate the following statements by ticking the box which most closely represents your level of agreement or disagreement with each statement.

	Strongly Agree	Agree	Don't Know	Disagree	Strongly Disagree
The issues listed covered those that I was concerned with					
The information given was useful in helping my organisation decide whether it should be taking action					
I was able to understand the information on Management of Noise risk					
I think the references/related guidance given are useful					
I think the information given in this table is sufficient for my purposes					
My organisation intends to take action to meet the risk management expectations listed here					

If you have any comments you would like to make, please do so in the space below:

About you:

What is your role/job in your organisation?

Employee	Middle Manager	Senior Manager
Supervisor/Foreman	Health & Safety Professional	Union representative
Self employed	Other <i>Please specify</i>	

How many people work in your organisation?

Less than 50 employees	Between 51 and 250	Between 251 and 500
Between 501 and 1000	More than 1000	

Thank you very much for your feedback. Please fax this to the number given at the top of the page

HSE are always looking for new ideas and solutions to noise problems. If you are willing to share your experience with others please give your details below so that we can discuss this with you.

Name: **Company:**

Telephone number:..... **Email:**