

AiS and JUAC

- Aim: to make schools safe from the dangers of asbestos
- NUT, ATL, NASUWT, Voice, NAHT, ASCL, GMB, Unison, Unite, UCATT, Hazards
- MPs, Asbestos Victims Support Forum, ISBA, ATAC, Solicitors, Experts on risk.
- Work together
- Common aims. Speak with a common voice
- Non-Party political
- Members of the DfE Asbestos Steering Group

Government Policy in Britain Manage for life of School building

"Asbestos which is in good condition and unlikely to be disturbed or damaged is better left in place and managed until the end of the life of the building

as this presents less risk of exposure to the occupants than the process of removing it."



Parliamentary Written Answer Minister of State for Schools 8th February 2011

Asbestos Management Does it Work in Schools?

BBD

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SCHOOL BUILDING



14,210 school built between 1945-1975 Many others refurbished DfE estimate more than 75% contain asbestos

TYPICAL SYSTEM BUILT SCHOOL About Half of Schools in Britain are System Built



Extensive use of Amosite in Schools Medical Research Council Report 1997

general, extensive use was made of sprayed coatings (amphiboles), Asbestolux ceiling panels, and asbestos board (amosite) and asbestos-cement partitioning in system-built buildings constructed in the 1960s.

These particular buildings might thus be considered to pose a relatively "higher risk" of exposure



Fibrous materials in the Environment

In

MRC INSTITUTE FOR ENVIRONMENT AND HEALTH

Risk from Asbestos

CHEN LE

CHRYSOTILE WHITE

CAUSES MESOTHELIOMA

AMOSITE BROWN

UP TO 100 TIMES MORE DANGEROUS

CROCIDOLITE BLUE

UP TO 500 TIMES MORE DANGEROUS

• "There is no threshold dose of asbestos below which there is no risk."

High Court. Dianne Willmore and Knowsley Metropolitan Borough Council July 2009 .

•"Later exposure adds to earlier exposure."

•All exposures are cumulative and contribute to the risk of the development of a tumour."

Dr Robin Rudd 1994

A child will inhale ~ 3,000,000 asbestos fibres

During 12.5 years at school Asbestos in good condition 0.0005 f/ml (500 f/m³)



Fibrous materials in the Environment

MRC INSTITUTE FOR ENVIRONMENT AND HEALTH

A person on average inhales ~ 20m³ of air a day

Summary of inhalation rate studies California Pediatrics 2004

Entire School Population ExposedMedical Research Council Report1997

"It is not unreasonable to assume, therefore, that the entire school population has been exposed to asbestos in school buildings."



Fibrous materials in the Environment MRC INSTITUTE FOR ENVIRONMENT AND HEALTH

"Managing presents less risk of exposure to the occupants?"

Committee on Carcinogenicity

Provisional findings:

- Children are more vulnerable to exposure to asbestos
- Children are more vulnerable because they will live longer for the disease to develop.
- A 5 year old child is ~ 5 times more at risk than adult of 30.
- Physical immaturity. Science is incomplete
- Advised to follow Precautionary Principle
- Serious damage to lungs of a child < 5 is permanent

Amosite Cause of High British Mesothelioma Incidence

- The British mesothelioma death-rate is highest in the world
- Britain was the largest importer of amosite. Major cause of high mesothelioma rate.
- Mesotheliomas in Britain among people who were unaware of their exposure are four times greater than elsewhere in the world.



Asbestos Exposures in Schools

Maintenance Everyday Classroom Activities



Primary School 30 windows ripped out with crowbars and power saws

Headteacher:

"I had no knowledge of asbestos its capabilities or where it would be found...

it was a complete foreign language to me."



DRILLING AIB. Cloud of Fibres. Many Amosite 2f/ml -10f/ml (2million -10 million f/m³)

HSE "School caretakers have been identified as a particular group at risk due to the nature of their work (e.g. drilling and fixing.)"

Dianne Willmore

Supreme Court Judgment 9 March 2011 Negligently exposed to asbestos as a pupil at school



Two current mesothelioma cases Pupils kicked holes in AIB walls One is a teacher One is a former pupil

Cleaners swept up. Caretaker repaired damage

By kind permission of Oracle Solutions Ltd

A GMB survey of 22 school kitchens in County Durham 20 contained damaged asbestos Broken ceiling tiles, cracked plates on wall pipes, ovens and sterilisers.



Classroom Cupboards AIB back

Cleaning 0.07 - 0.84 f/ml (70,000 f/ f/m³ – 840,000 f/ f/m³) Removing Stationary 0.02 - 0.05f/ml Amosite (20,000 f/ f/m³ – 50,000 f/ f/m³)



"One of the most popular forms of heating schools"

The Role of School Building in Post War England

1981 0.06 f/ml (60,000 f/ f/m³) Amosite

HM Principal Inspector of Factories 22 October 1981



"The apparatus needed regular cleaning if it was to function properly."

"Students have a habit of opening up any available cupboards."

AIB baffles deflect air into classroom

"If damaged, fibres can be readily circulated..."

Scape CLASP asbestos handbook

2012 Cwmcarn Unsealed Damaged AIB. Asbestos fibres and debris 4 Heaters emitting amosite fibres 0.0043f/ml (4,300 f/m f/m³)

School corridor. Sprayed asbestos ceiling Pupils threw pens to stick in ceiling. Caretaker regularly patched damage

1987. Kicking AIB Wall **0.87 f/ml** (870,000 f/m³)

ASBESTOS INSULATING BOARD. MATRIX and AMOSITE CLOUD Handling AIB 1-5f/ml



1987

Slamming a Door Five Times

0.33f/ml (330,000 f/m³)

System Built Steel Columns

2006. Slamming Doors. Hitting Walls and Columns Sitting on Window Sills 0.44 f/ml (440,000 f/m³)



Gap in Column Casing





Figure 11: View of base of column from which the casing in figure 10 was removed. A large amount of friable AIB debris can be seen.

Missing Silicone Sealant Column Used as Goal Post

Foam Sealing Column Top Fibres ejected into Ceiling Void 0.72f/ml (720,000 f/m³)

Failing to identify asbestos in columns. Failing to manage

Improvement Notices

Walsall Metropolitan Borough Council 12 Improvement Notices.

12 Oct 2007

"This was an extremely onerous and expensive task"

DCSF/HSE Questionnaire asbestos management in system built schools-July 2010

Glasgow CC: You have failed to manage the risks from asbestos ... In particular the primary

schools under the control of Glasgow City Council ^{18 February 2010}

HSE ENFORCEMENT NOTICES

DfES 1986. MANAGE

INTRODUCE MANAGEMENT SYSTEM

Where there is no extensive damage and no loose or friable debris, and where the material is accessible, it will be necessary to seal or enclose it and to introduce a management system.

> DfEE Administrative Memo 3/86 15th August 1986

October 2012 Cwmcarn High School closed Asbestos contamination and heaters pose a potential serious risk to health Asbestos remediation costs £1,047,944.08 Plan to open in September 2013

VISITORS

CARS ONL

Extensive asbestos debris in ceiling void Unsealed, damaged AIB in heaters. Amosite fibres released AIB window panels "scuffs, scrapes and impact damage"



JUAC Survey of 600 members:

80% of safety reps had not had asbestos training , or unaware if they had.70% of safety reps not consulted on asbestos management30% unaware if asbestos register existed

VOICE Survey of 790 members: 77% had not had asbestos training , or unaware if they had 67% had not been told whether there was asbestos in the building

NASUWT survey of 1,923 members 57% did not know if asbestos present in school or not 13% asbestos in bad condition 2011 HSE inspections 164 school visited Outside LA control

80 schools did their own maintenance 41 had no training for maintenance staff 51 had no written management plan 28 had Enforcement action 110 given "Advice" to improve asbestos management



Deteriorating School buildings "Schools are not managing their asbestos either effectively or safely."

"These are not minor problems that have crept in over recent years; rather they are fundamental problems that are endemic in schools in the UK."

"Over the years the school stock has not been well maintained so that as the fabric of the buildings has deteriorated then so has the asbestos."



Asbestos Consultants Association Assessment of asbestos management in schools 24 Jan 2010 Secretary of State: "The condition need of some schools is so severe that urgent action is necessary."

Inisterial Statement .Priority School Building Programme 24 May 2012

British Council for School Environments: "Some are in a terrible – and dangerous – condition." The Observer 20th May 2012

Chief Executive of Partnership for Schools: "80% of schools were beyond their shelf life."

BBC Radio 4 Today Programme 1 Apr 2010

Local Government Association (LGA) and Association of Directors of Children's Services (ADCS) 2010:

"£15 billion capital investment is the absolute minimum councils need between now and 2015 to ensure every child can be taught in a classroom which is safe and structurally sound.

Nearly £5 billion is considered essential for the next financial year, 2011-12." LGA media release – 24th September 2010

Priority School Building Programme May 2012

£15 billion needed £2billion allocated

587 schools in the worst condition applied 261 will receive funds

Ministerial Statement The Priority School Building Programme 24 May 2012

Progressive Removal

DISTURBANCE IS CONTINUING RISK PROGRESSIVE REMOVAL SAFEST MOST COST EFFECTIVE (AMA 1985)

2.2.8 <u>A policy of progressive removal should be adopted</u>. This does not, and cannot, imply the immediate removal of all asbestos materials,

> given that any asbestos is a hazard, however slight, and that buildings will be occupied and have to be maintained, and inadvertent disturbance is a continuing risk.

Nevertheless, progressive removal is thought to be both the safest and most cost effective solution,



Asbestos Deaths

School Teachers' Mesothelioma Deaths





School support staff are also dying of mesothelioma

- School Caretakers
- School Cleaners
- School secretaries
- Teaching assistants
- School cooks

No Statistics for Children's Subsequent Deaths

Latency from first exposure:

| Average | 35-40 years |
|----------------------------|-------------|
| Low level exposure average | 50 years |

Therefore there are no statistics for subsequent mesothelioma deaths for children exposed to asbestos at school

Teacher's and Support staff Deaths are the Tip of the Ice-berg

Evidence to Education Select Committee. It is reasonable to assume in the order of 100-150 female mesothelioma deaths a year will occur from asbestos exposure as a child at school.

Professor Peto Education Select Committee 13th March 2013

Male and Female deaths a year = 300

• Reasonable to assume 3000 deaths will occur from asbestos exposure as a child at school

2012

All Party Parliamentary Group on Health and Safety:

"This is a national scandal.

Urgent action is needed to prevent more pupils, teachers and other staff being exposed to this deadly killer dust."

Jim Sheridan MP February 2012

Asbestos in schools The need for action

All-Party Parliamentary Group on Occupational Health and Safety The All-Party Group recommends that:

•Standards in asbestos training should be set and the training should be mandatory.

•DfE and HSE jointly develop asbestos guidance specifically for schools...

•A policy of openness should be adopted....

•Pro-active inspections should be reinstated...

•Data should be **collected centrally** on the extent, type and condition of asbestos in schools...

•The Government should set a programme for the **phased removal** of asbestos priority to those schools where the asbestos is the most dangerous or damaged.

February 2012

All-Party Parliamentary Group on Occupational Health and Safety

ELIZABETH BRADFORD

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Further Information

www.asbestosexposureschools.co.uk