

New Zealand, Asbestos and a Number 8 wire mentality

Graham Aveyard – Auckland Council

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THE 'DO I NEED NUMBER 8 WIRE?' FLOWCHART

DOES IT NEED FIXING?

NO



**SWEET AS!
BUT BEST GET THIS
JUST IN CASE**

YES



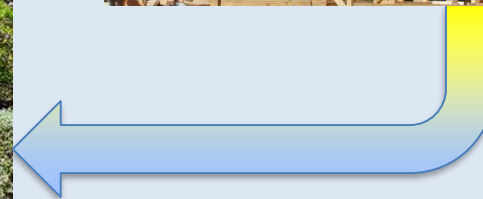
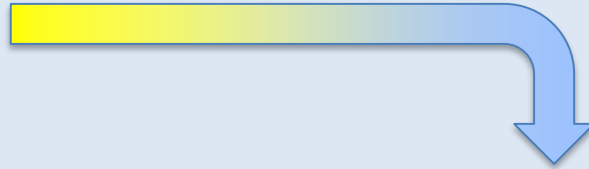
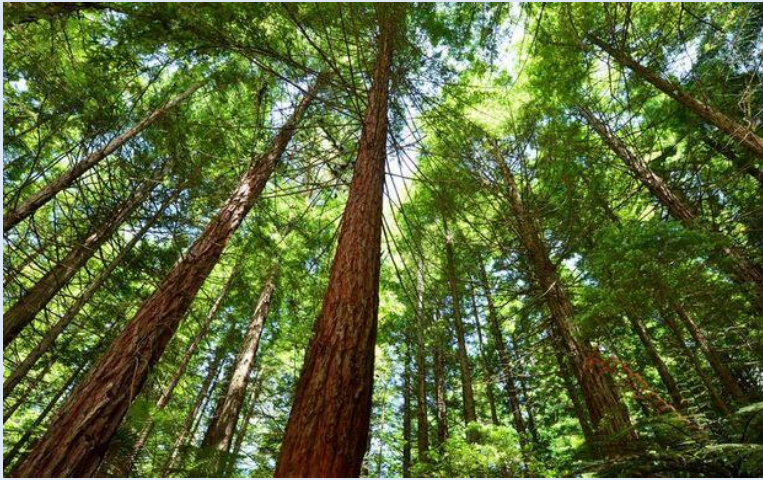
YOU NEED THIS

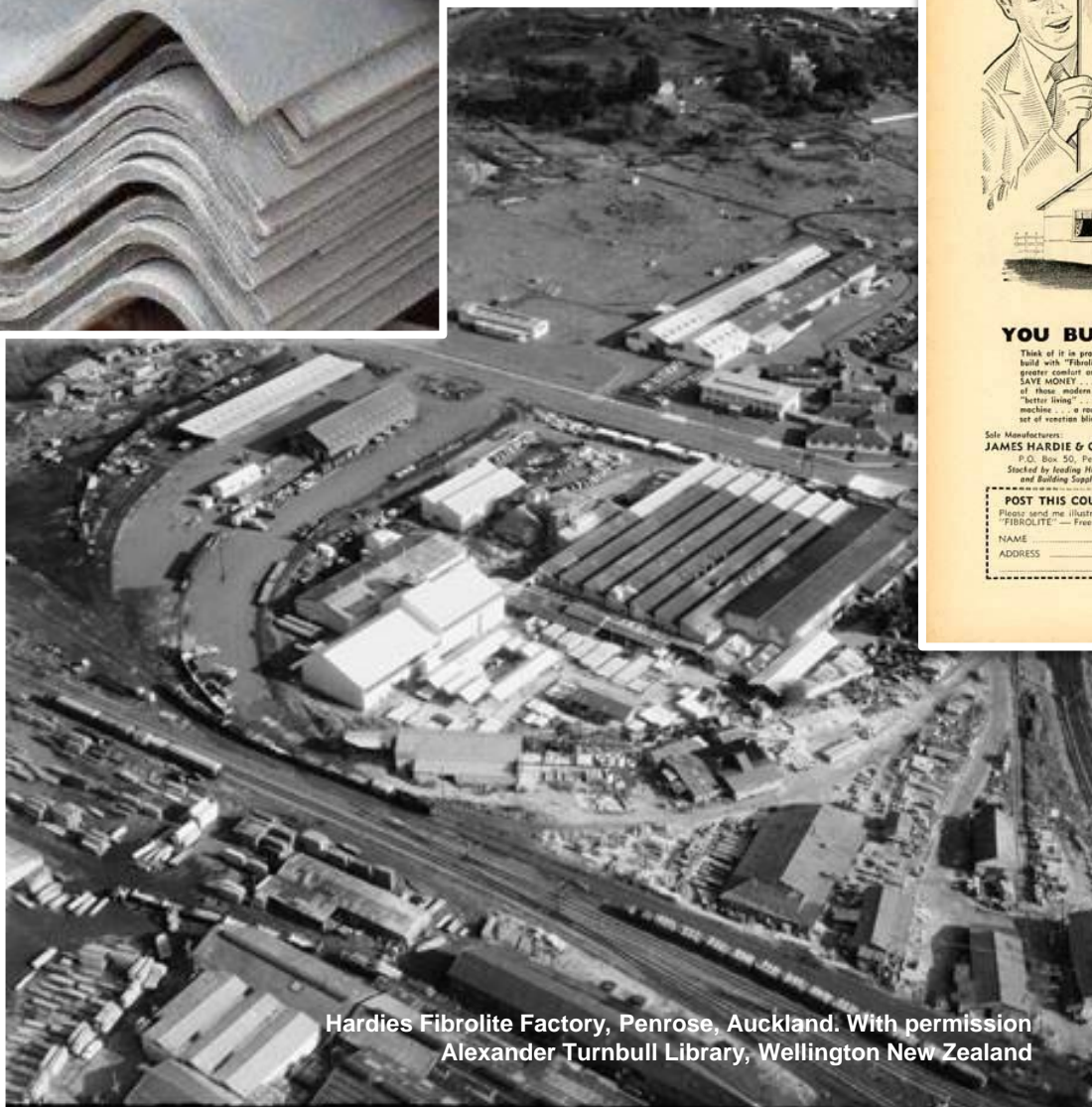


Building Construction

- Materials Immediately available?
- Must be cheap and plentiful
- Cant require sophisticated manufacture
- Locally sourced







Hardies Fibrolite Factory, Penrose, Auckland. With permission
Alexander Turnbull Library, Wellington New Zealand

HOME & BUILDING—54 1st December, 1974

**Add These Extras to
Your Home With
What You Save
by Building
in
"FIBROLITE"**

YOU BUILD FOR LESS IN "FIBROLITE"!

Think of it in practical terms alone! When you build with "Fibrolite," you not only build for greater comfort and durability but you actually **SAVE MONEY**... money that will give you one of those modern amenities that go towards "better living"... a refrigerator... a washing machine... a radiogram... or perhaps a full set of venetian blinds.

No other building material combines so many advantages of economy, comfort and durability. "Fibrolite" is easy to handle and transport. It is easy to erect — simplifies and speeds construction. After you build, "Fibrolite" saves you money on insurance premiums and in maintenance costs. There is no sounder investment in building than a "Fibrolite" home.

Sole Manufacturers:
JAMES HARDIE & COY. PTY. LTD.
P.O. Box 50, Penrose, N.Z.
Stocked by leading Hardware, Timber and Building Supply Merchants.

POST THIS COUPON NOW

Please send me illustrated booklet for "FIBROLITE" — Free and Post Free.

NAME

ADDRESS

HARDIE'S

"FIBROLITE"

(REGD TRADE MARK)

ASBESTOS CEMENT SHEETS

YOU BUILD FOR LESS IN HARDIE'S GENUINE "FIBROLITE"

1021-54

Why is Asbestos so much in NZ consciousness



Exposure to asbestos the single biggest cause of work-related disease mortality in New Zealand

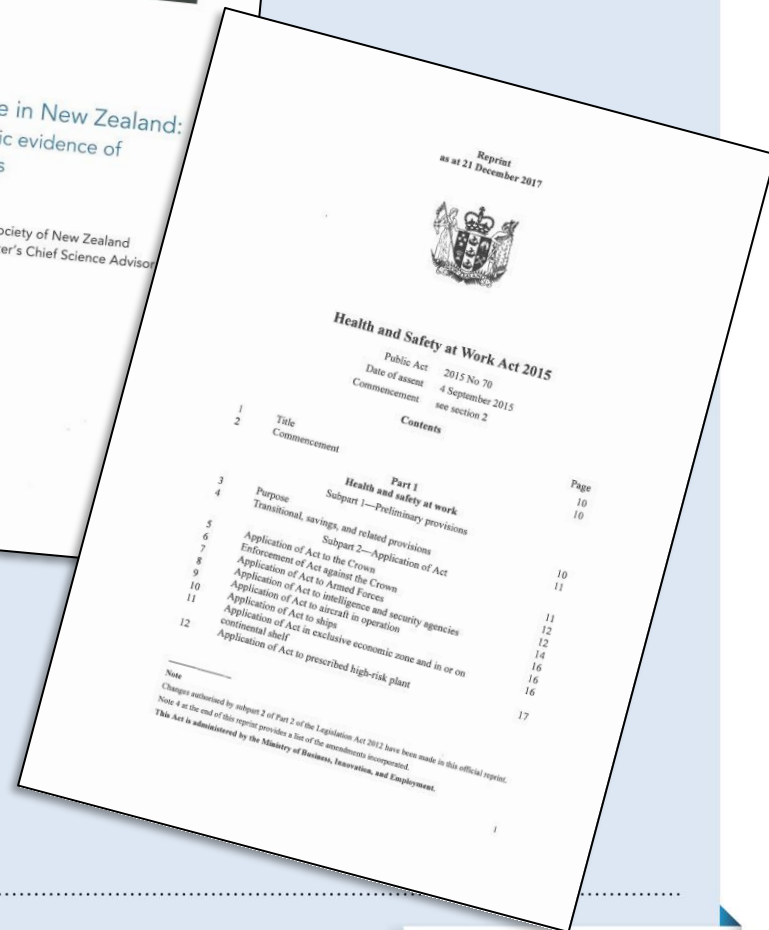
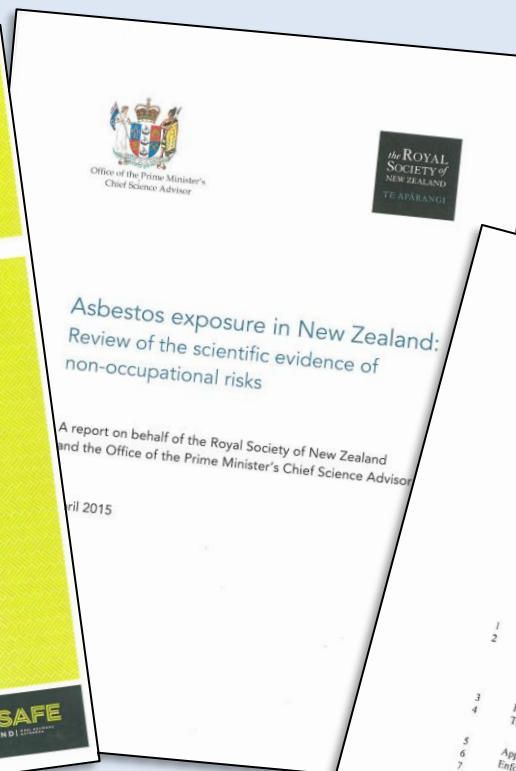
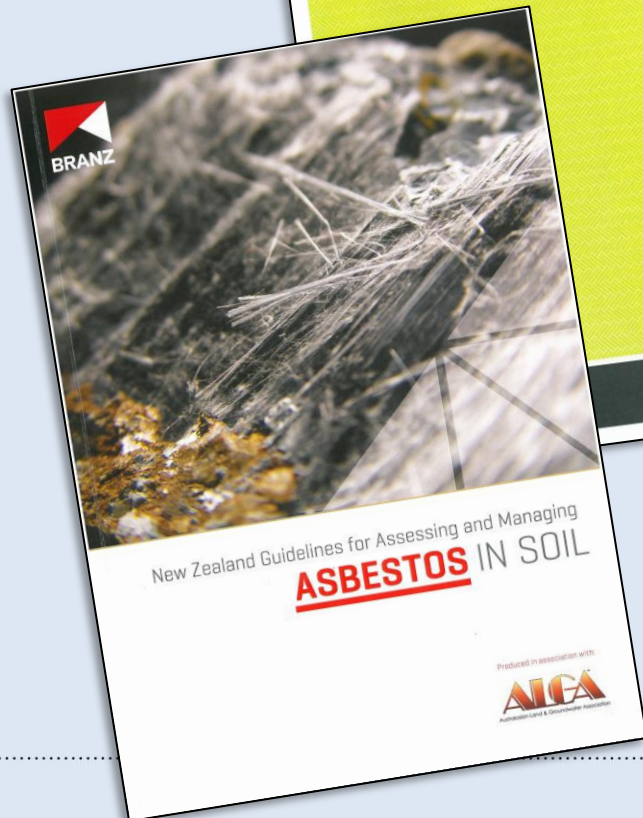
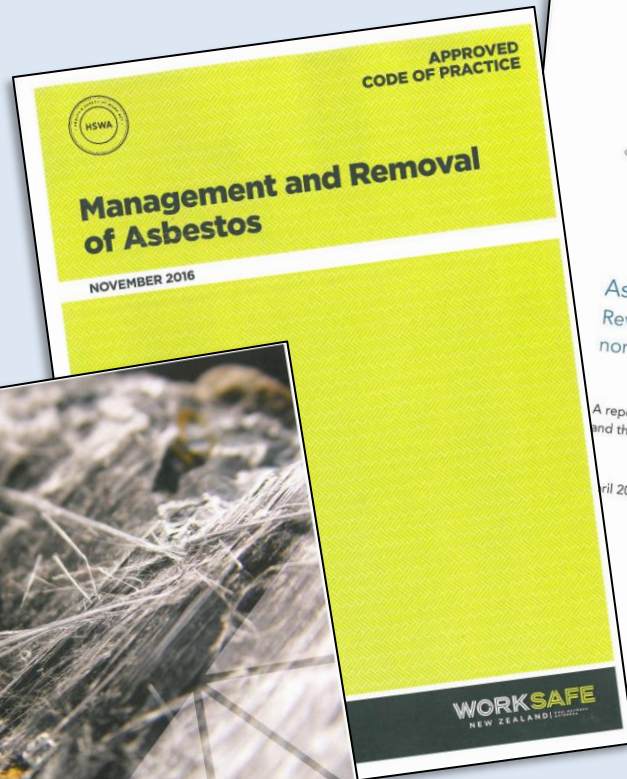
- UK data
- 2,542 mesothelioma deaths in 2015
- 467 Asbestosis deaths in 2015
- 24.6M employed in 1986
- New Zealand data
- In 2010: about **170 asbestos related deaths** out of 600 – 900 work related deaths
- 1.6M in Employment 1986

.....Source: HSE (UK).....

Global mesothelioma deaths reported to the World Health Organization between 1994 and 2008

Continent	Reporting countries	Age Adjusted Mortality Rate	% Male
Africa	4	4.8	76%
Americas	36	3.6	76%
Asia	11	2.6	76%
Europe	30	7.2	79%
Oceania	2	16	85%

Source *Bulletin of the World Health Organization* 2011;89:716-724C



Would we do it again?



Sir George Grey Special Collections, Auckland Libraries, 1411-1



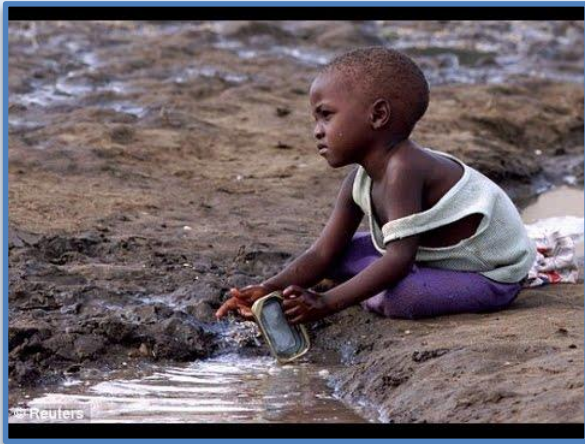
Sir George Grey Special Collections, Auckland Libraries, 580-9498



Archives New Zealand's National Publicity Studios collection.



Where necessity provides no choice



Final Thoughts



- Acceptable Risk - 1: 100,000
- Exposure = Risk
 - Concentration
 - Duration
- No threshold
- Even very small exposures provide some (very small) risk

Final Thoughts

Background Exposure

10,000's properties in Auckland contain some asbestos

- 100's uncontrolled demolitions (Significant regulatory issues)
- ACM currently in satisfactory condition but some fibre will be released
 - High levels of replacement in future years
- Fibre doesn't deteriorate in the environment – ACM deteriorates to fibre
- Potential to increase existing very low background levels ?
- What happens if we double background levels
 - 10x exposure f/ml.yr - 6x risk estimate
 - general population exposure – 1.5M (2.5M by 2028)



Thank you

Questions?

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