

Wood Preservation 2009



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Topics:

Leaching trial - boron treated framing.

The regulatory framework.



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Drivers for leaching trial :

Amendment to NZS 3640 – Aug 2006

Concern with solvents in framing

Simplification of treatment choice

Leaching trial



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Conditions for leaching trial :

A real time trial

Statistically based

Relevant to NZ framing use

Leaching trial



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Statistical basis in practice :

250 sample lengths supplied
broadly selected clear wood
90 x 45 x 2380

114 lengths treated 0.4% BAE w/w
118 samples treated 0.8% BAE w/w

10 samples (each) tested
to AS/NZS 1605:2000
cross-section analysis (5 per stick)

Leaching trial



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Statistical basis in practice :

20 samples (each) sent to BRANZ
ends retained for baseline testing

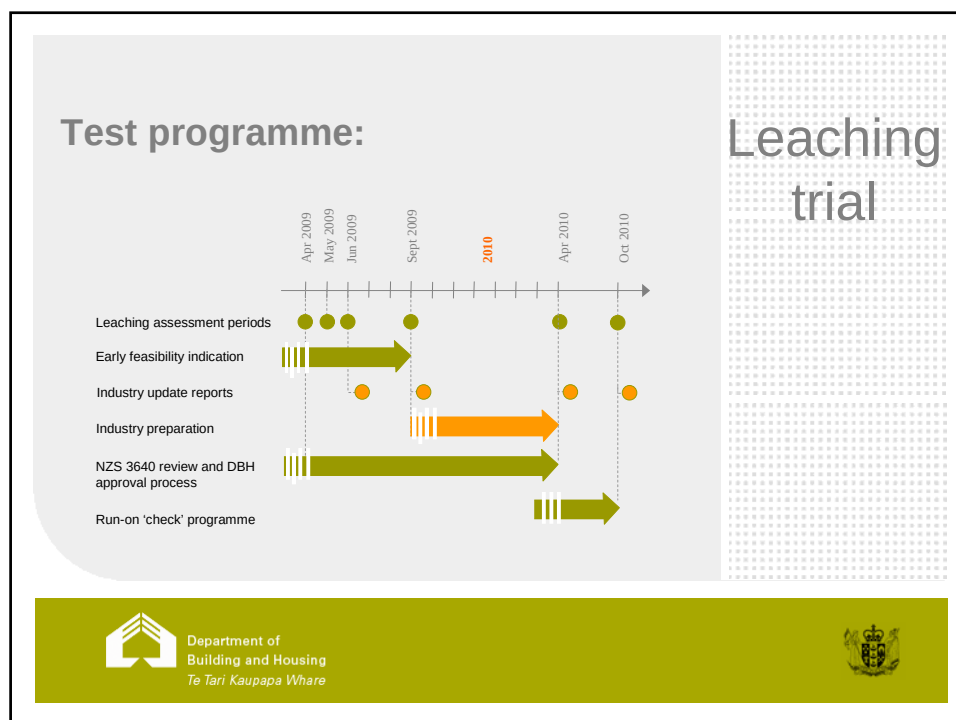
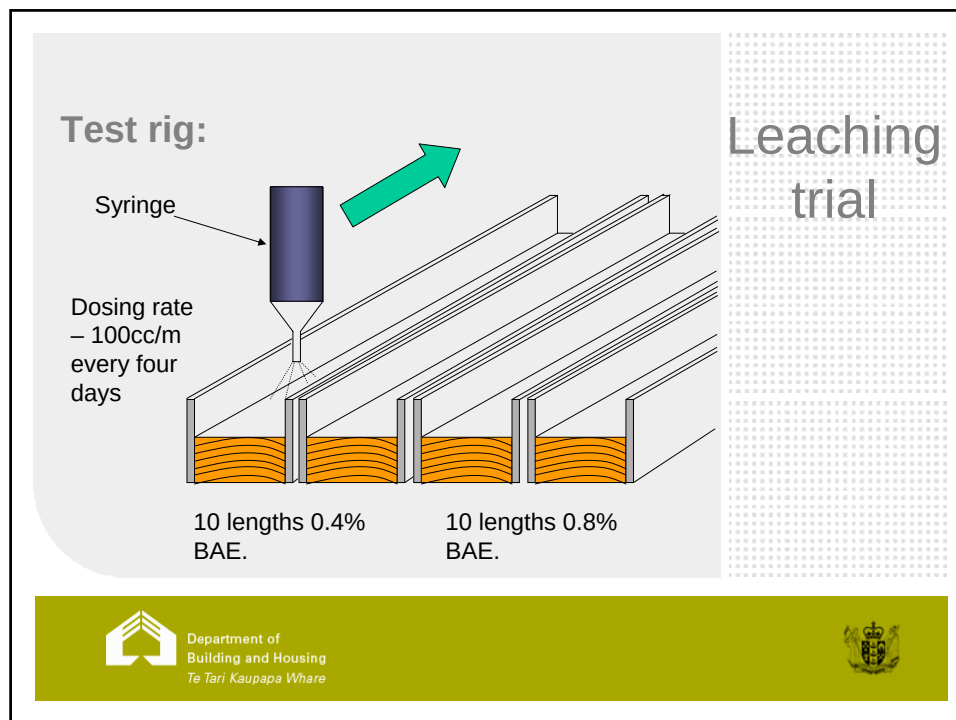
10 samples (each) BRANZ tested

Leaching trial

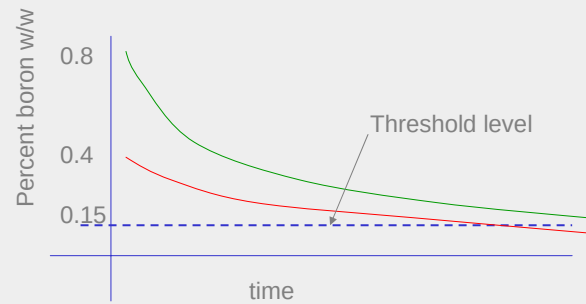


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Test expectations:



Leaching trial



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Test evaluations:

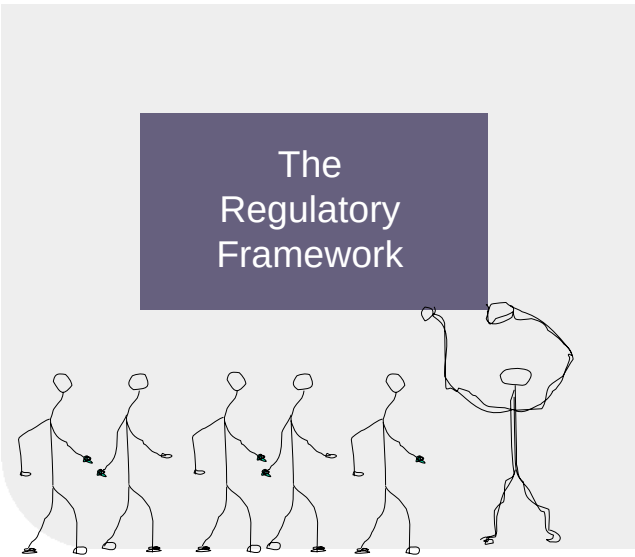
1. Results of leaching trial
2. Analysis of WHRS cases
consent date – case registration date
3. 'Common wisdom' – 2 years
4. Changes in building quality
5. New knowledge on rot types

Leaching trial



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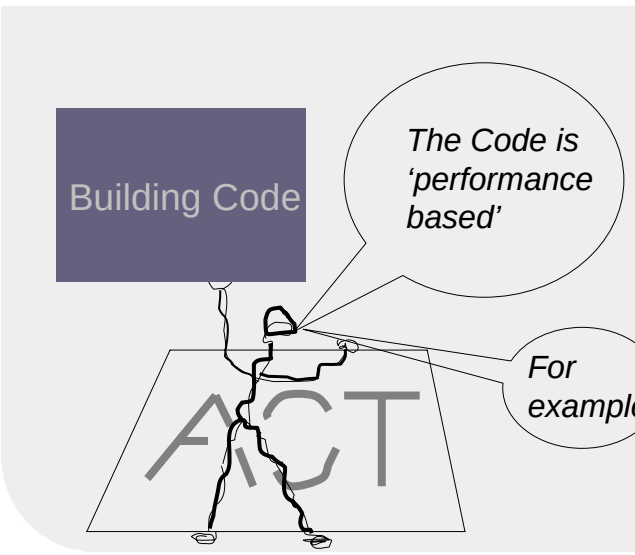
The Regulatory Framework

Regulatory framework

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The diagram illustrates the regulatory framework. It features a purple box labeled 'The Regulatory Framework' being held up by a stick figure. To the left, a line of five stick figures is shown, with the last figure holding the box. The background is a light gray with a subtle grid pattern.



Building Code

The Code is 'performance based'

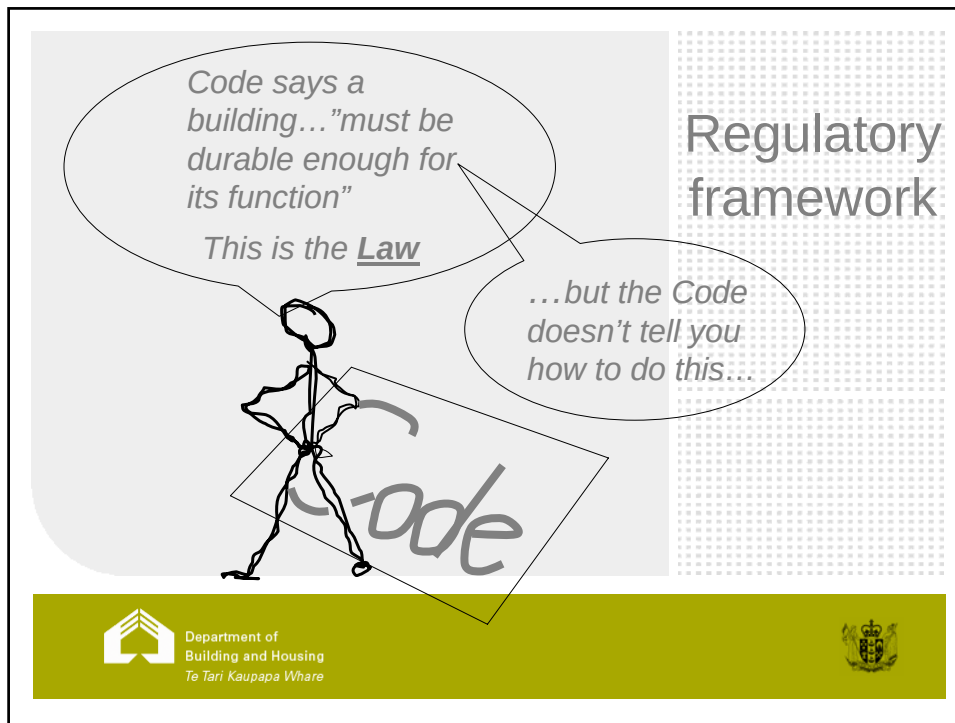
For example

Regulatory framework

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The diagram illustrates the regulatory framework. It features a purple box labeled 'Building Code' and a stick figure standing on a large, tilted, light gray trapezoid labeled 'ACT'. A speech bubble from the stick figure says 'The Code is 'performance based''. Another speech bubble points to the 'ACT' trapezoid and says 'For example'. The background is a light gray with a subtle grid pattern.



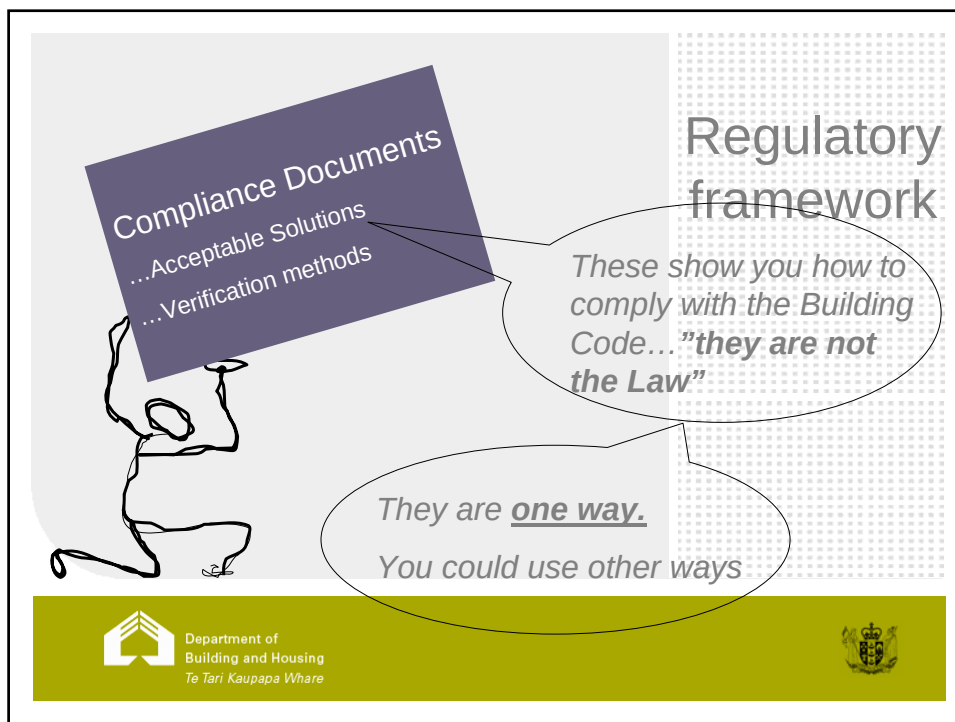
Code says a building... "must be durable enough for its function"

This is the Law

...but the Code doesn't tell you how to do this...

Regulatory framework

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Compliance Documents
...Acceptable Solutions
...Verification methods

These show you how to comply with the Building Code... "they are not the Law"

They are one way.
You could use other ways

Regulatory framework

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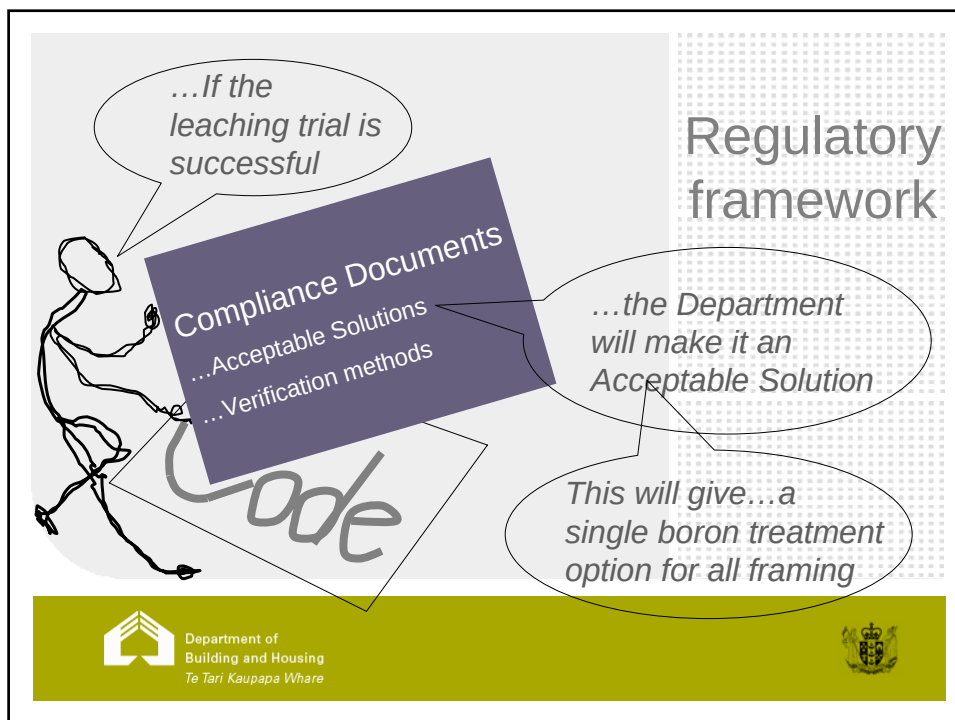
Regulatory framework

...but they are the easiest way for compliance with the Code

Compliance Documents
 ...Acceptable Solutions
 ...Verification methods

NZS 3640 and 3602 is an Acceptable Solution
...Because the Department says it is!

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Regulatory framework

...If the leaching trial is successful

Compliance Documents
 ...Acceptable Solutions
 ...Verification methods

...the Department will make it an Acceptable Solution

This will give... a single boron treatment option for all framing

Code

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