



RECENT CHANGES TO AUSTRALIA AND NEW ZEALAND WOOD PRESERVATION TREATMENT STANDARDS

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- **AS 1604.1**
 - ▶ Roundwood and sawn lumber – Australia only
- **AS/NZS1604.2 - .5**
 - ▶ AS/NZS 1604.2 – Composite wood products
 - ▶ AS/NZS 1604.3 – Plywood
 - ▶ AS/NZS 1604.4 – LVL
 - ▶ AS/NZS 1604.5 – Glue laminated lumber
- **NZS 3640**
 - ▶ Roundwood and sawn lumber – NZ only
- **AS/NZS 1605.1 -.4 Analytical procedures**

- AS/NZS 2842.1-.2 Timber Plant Code
 - ▶ Design and operation of treatment plants
 - **NZ plants use NZ TPC Best Practice Guidelines for Safe Use of Timber Preservatives**
- AS 5604 Timber – Natural durability ratings
 - ▶ Mainly species commercially important in Australia, but not in NZ

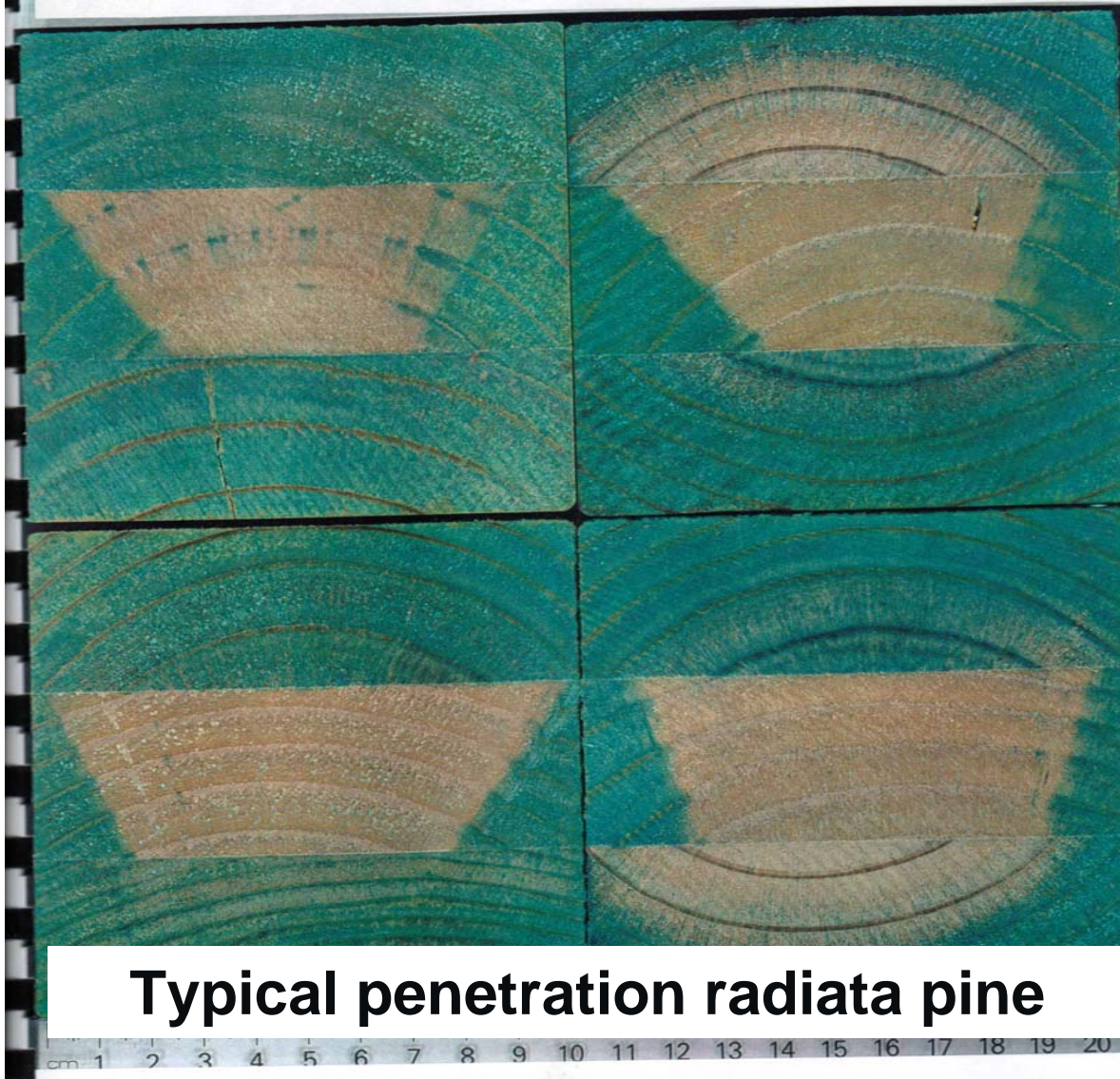
- **Standards Australia TM006**
 - ▶ **Responsible for AS 1604.1, AS/NZS 1604.2-.5, AS/NZS 1605.1-.4, AS 5604, AS/NZS 2842.1-.2**
 - **Mainly Australian representation, 4-5 NZ members**
 - **NZ interests are mainly as exporters of treated wood products to Australia**
 - **NZ has voting rights on joint standards, not on AS only standards**
- **Standards New Zealand P3640**
 - ▶ **Responsible for NZS 3640**
 - **Only NZ representation**
 - **Amendments involving new preservatives reviewed by both NZ and Australian representation if Australian registration will be sought**

- H2 glueline treatments for plywood and LVL
- Increase in allowable veneer thickness
 - Bifenthrin 5.15 mm
 - Imidacloprid 4.3 mm
 - ▶ Treatment for products made from hardwood veneers
- Clarification of procedures for registration/approval of preservatives/treatments sourced outside Australia

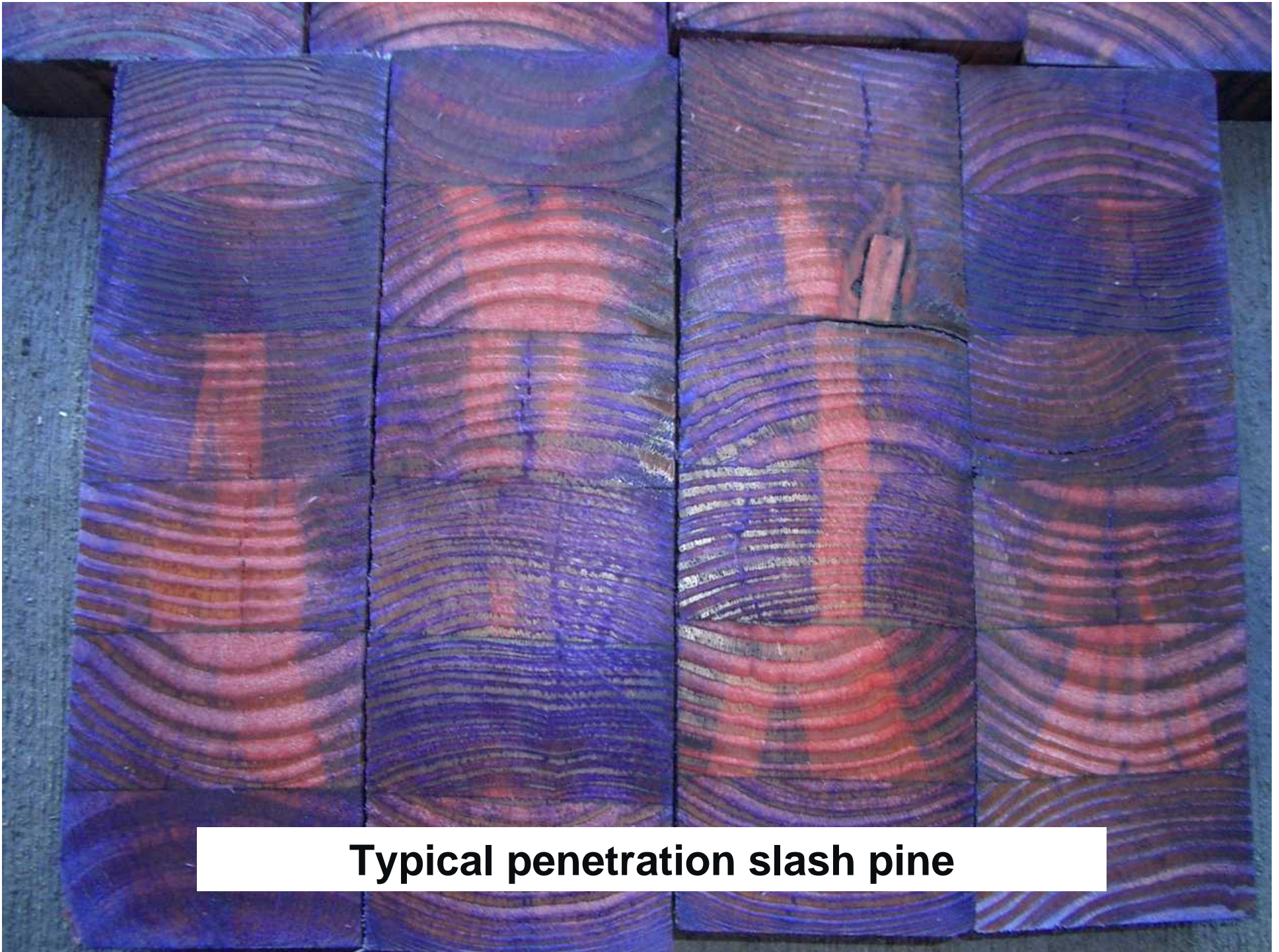
- Preservative treatment requirements for glue laminated lumber
 - ▶ Previously, full penetration of sapwood in outer two laminates
 - ▶ 8 mm penetration inner laminates (> 35 mm smallest dimension)
 - ▶ 5 mm penetration inner laminates (< 35 mm smallest dimension)
 - ▶ Some unpenetrated heartwood permitted

TREATMENT A - LOWRY
Flood Pressure 0 kPa
Working Pressure 100 kPa for 20 minutes
Final Vacuum -85 to -95 kPa for 30 minutes

Sample A1 - Uptake 77.10 L/m³



Typical penetration radiata pine



Typical penetration slash pine

- 80% of cross-section must be penetrated
- No differentiation between sapwood and heartwood
- Difficult to monitor
 - ▶ No spot test for azoles (commonest treatment for H3 glue laminated material)
 - ▶ No definition of location of the unpenetrated 20% in the cross-section
 - Where is it and how do you find it?
 - ▶ Zinc added as a marker for spot test is being used

- Boron treatment for H3.1
- H3.1 framing to have a grey pigmented coating
- Restrictions on size (thickness) for H3.1 copper naphthenate treatments

- **Boron treatment approved for Hazard Class H3.1**
 - ▶ **0.80% BAE cross-section retention**
 - ▶ **Exterior components (weatherboards, fascia) must be primed at treatment plant site**
 - ▶ **Interior framing included, but with moisture impervious finish**
 - ▶ **Not recognised as Acceptable Solution by NZ Department of Building and Housing for inclusion in NZ Building Code**
 - ▶ **Need more information on long-term leach resistance in high risk applications**