

NEW ZEALAND TIMBER PRESERVATION COUNCIL – INFORMATION SHEET

Comparative treatment requirements - New Zealand & Australia

	NZS3640		AS1604 (subject to final approval)	
	Penetration	Retention	Penetration	Retention
H1	N.A.	N.A.	Evidence of preservative in sapwood	CCA 0.035 Boron 0.047 ACQ 0.170 Permethrin 0.006 Cypermethrin 0.006 Deltamethrin 0.0006 Bifenthrin 0.0012 Fluorine 0.140
H1.1	Complete sapwood Analytical zone central one-ninth except boron <24% mc full sapwood x-section.	CCA 0.04 Boron 0.10 (softwood x-section) Permethrin 0.006 Cypermethrin 0.006 Deltamethrin 0.0006	N.A.	N.A.
H1.2	Complete sapwood Analytical zone full sapwood x-section.	Boron 0.40 (softwood x-section) Tin 0.06 Permethrin + IPBC 0.006 + 0.025	N.A.	N.A.
H2	N.A.	N.A.	<p>Non termite resistant –</p> <p style="color: #C00000;">South of Capricorn</p> <p>Complete sapwood and</p> <ul style="list-style-type: none"> ▪ Lesser face >35mm, 8mm envelope ▪ Lesser face =35mm, 5mm envelope <p>or unpenetrated heartwood permitted if it is less than 20% of the x-section and does not extend more than halfway from one face to the opposite face and does not exceed half the dimension of the side where it occurs.</p> <p style="color: #C00000;">North of Capricorn</p> <p>Complete x-section but unpenetrated heartwood permitted if it is less than 20% of the x-section and does not extend more than half way from one face to the opposite face and does not exceed half the dimension of the side where it occurs.</p> <p style="color: #C00000;">Envelope treated, seasoned softwood framing south of Capricorn</p> <ul style="list-style-type: none"> ▪ Lesser face =45mm, greater face =140mm <ul style="list-style-type: none"> ➢ Termite resistant – total sapwood or permethrin 5.0mm bifenthrin 2.0mm ➢ Non termite resistant – permethrin 5.0mm bifenthrin 2.0mm 	CCA 0.320 ACQ 0.350 Permethrin 0.02 Cypermethrin 0.03 Deltamethrin 0.002 Bifenthrin 0.0047 (for softwood framing south of Capricorn) Permethrin 0.02 in penetration zone Bifenthrin 0.02 in penetration zone)

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H3.1	<p>Complete sapwood no minimum heartwood where treated in final shape and form. Where not treated in final shape and form evidence of penetration to 5.0mm after machining. Unpenetrated heartwood permitted if it:</p> <ul style="list-style-type: none"> ▪ Comprises <20% of x-section ▪ Does not extend from one surface to the opposite surface ▪ Does not exceed half the dimension of any side of the x-section. 	CCA 0.37 ACQ 0.35 CuAz 0.27 CuN 0.10 TBTO 0.08 TBTN 0.08	N.A.	N.A.
H3.2	<p>Complete sapwood no minimum heartwood where treated in final shape and form. Where not treated in final shape and form evidence of penetration to 5.0mm after machining. Unpenetrated heartwood permitted if it:</p> <ul style="list-style-type: none"> ▪ Comprises <20% of x-section ▪ Does not extend from one surface to the opposite surface ▪ Does not exceed half the dimension of any side of the x-section. 	CCA 0.37 ACQ 0.35 CuAz 0.27 CuN 0.10	N.A.	N.A.
H3A	N.A.	N.A.	Radiata pine <ul style="list-style-type: none"> ▪ Total sapwood and ▪ Lesser face >35mm, 8.0mm envelope ▪ Lesser face =35mm, 5.0mm envelope or unpenetrated heartwood permitted if it is less than 20% of the x-section and does not extend more than half way from one face to the opposite face and does not exceed half the dimension of the side where it occurs. ▪ Roundwood, 8.00mm envelope 	CCA 0.380 ACQ 0.350 (softwood) ⁽²⁾ CuAz 0.229 ⁽¹⁾ Creosote 8.0 TBTO 0.08 TBTN 0.08 CuN 0.100 Permethrin 0.02 Cypermethrin 0.03 Deltamethrin 0.002 Bifenthrin 0.0047
H3	N.A.	N.A.	Radiata pine <ul style="list-style-type: none"> ▪ Total sapwood and ▪ Lesser face >35mm, 8.0mm envelope ▪ Lesser face =35mm, 5.0mm envelope or unpenetrated heartwood permitted if it is less than 20% of the x-section and does not extend more than half way from one face to the opposite face and does not exceed half the dimension of the side where it occurs. ▪ Roundwood, 8.00mm envelope 	CCA 0.380 ACQ 0.350 (softwood) ⁽²⁾ CuAz 0.229 ⁽¹⁾ Creosote 8.0 TBTO 0.16 TBTN 0.16 CuN 0.100 Permethrin 0.02 Cypermethrin 0.03 Deltamethrin 0.002 Bifenthrin 0.0047

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H4	<p>Roundwood</p> <ul style="list-style-type: none"> Complete sapwood with minimum envelope 10mm with evidence of distribution continuous through earlywood and latewood. <p>Part rounds</p> <ul style="list-style-type: none"> Complete sapwood with minimum envelope 10mm. Unpenetrated heartwood permitted if it is $< \frac{1}{3}$ original diameter. <p>Sawn timber</p> <ul style="list-style-type: none"> Complete sapwood with minimum envelope 10mm (sap and heart) Unpenetrated hearted permitted if it: <ul style="list-style-type: none"> Comprises $< 20\%$ of x-section Does not extend from one surface to the opposite surface Does not exceed half the dimension of any side of the x-section. 	<p>CCA 0.72 ACQ 1.02 CuAz 0.46</p>	<p>Radiata Pine – sawn</p> <ul style="list-style-type: none"> Total sapwood and Minimum envelope 10mm <p>Or unpenetrated heartwood permitted if it is less than 20% of the x-section and does not extend more than half way from one face to the opposite face and does not exceed half the dimension of the side where it occurs.</p> <p>Radiata Pine – round</p> <ul style="list-style-type: none"> Minimum envelope 10mm 	<p>Softwood</p> <p>CCA 0.630 ACQ 0.890⁽²⁾ CuAz 0.416⁽¹⁾ Creosote 20.0</p>
H5	<p>Utility poles</p> <ul style="list-style-type: none"> Complete sapwood with evidence of distribution continuous through earlywood and latewood. Analysis zone for CCA and ACQ – outer 30mm. <p>Rounds, part rounds, sawn timber</p> <ul style="list-style-type: none"> Complete sapwood with evidence of distribution continuous through earlywood and latewood, plus minimum 30mm penetration from three faces and 20mm from the other face. Analysis zone CCA and ACQ – outer 30mm with sawn timber this can be taken from any face. <p>Round, part round or sawn timber for horticultural support/shelter</p> <ul style="list-style-type: none"> Length $> 3.6\text{m}$ – complete sapwood with minimum depth 30mm. Length $= 3.6\text{m}$ complete sapwood if sawn, minimum 10m envelope. Analysis zone <ul style="list-style-type: none"> $> 3.6\text{m}$ – outer 30mm $= 3.6$ – outer 10mm 	<p>CCA 0.95 ACQ 1.35</p>	<p>Radiata Pine utility poles – see AS2209.</p> <p>Radiata Pine</p> <ul style="list-style-type: none"> Total sapwood and Minimum envelope 20mm or unpenetrated heartwood permitted if it is less than 20% of the x-section, does not extend more than half way from one face to the opposite face and does not exceed half the dimension of the side where it occurs. 	<p>Softwood</p> <p>CCA 1.0 ACQ 1.41⁽²⁾ CuAz 0.759⁽¹⁾ Cresote 24.5</p>

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H6	<ul style="list-style-type: none"> ▪ Complete sapwood with evidence of continuous distribution through earlywood and latewood with minimum envelope 40mm from any face including heartwood. ▪ Analysis zone – outer 40mm – any face. 	CCA 0.40 (Cu only)	<p>Radiata Pine - sawn</p> <ul style="list-style-type: none"> ▪ Total sapwood and ▪ Minimum envelope 20mm or unpenetrated heartwood permitted if it is less than 20% of the x-section and does not extend more than half way from one face to the opposite face and does not exceed half the dimension of the side where it occurs. <p>Radiata Pine - rounds</p> <ul style="list-style-type: none"> ▪ Total sapwood and ▪ Minimum envelope 15mm 	<p>Softwood</p> <p>CCA 2.0 Creosote 40.0</p> <p>N.B. Northern waters, double treatment of CCA required.</p>

⁽¹⁾ Must contain =86% Cu and =3.4% tebuconazole.

⁽²⁾ Must contain =45% Cu and =30% DDAC

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