

3602 Table 1 - Wood based building components requiring a 50 year durability performance								
Wood based building components	Species or type ⁽¹⁾	Grade or standard ref.	In service moisture range %	Level of Treatment				
				3602 Aug	3602 Oct	BIA Aug	BIA Nov	
A Members in contact with the ground (Section 106)								
Building piles	Pinus species	NZS 3605	Not limited	H5	H5	H5	H5	
Plywood and timber frame foundations		BRANZ P43		H5	H5	H5	H5	
Crib walling		NZS 3605			H5	H5	H5	H5
Sawn poles					H5	H5	H5	H5
House poles					H5	H5	H5	H5
Retaining walls - uprights					H5	H5	H5	H5
Retaining walls - horizontal members					H4	H4	H4	H4
B Members exposed to exterior weather conditions and dampness not in ground contact (Section 107)								
Laminated beams	Pinus species	NZS 3606 & AS/NZS 1328	Not limited	H3 ^(3/4) or specific design	H3 ^(3/4) or specific design	H3 ^(3/4) or specific design	H3 ^(3/4) or specific design	
Laminated posts	Pinus species	NZS 3606 & AS/NZS 1328		H3 ^(3/4)	H3 ^(3/4)	H3 ^(3/4)	H3 ^(3/4)	
Posts, bearers, beams, floor joists, rafters, guardrails, stair stringers	Radiata pine	Structural grades		H3.2 ⁽⁵⁾	H3.2 ⁽⁵⁾	H3.2 ⁽⁵⁾	H3.2 ⁽⁵⁾	
Cladding as wall bracing	Plywood ⁽⁴⁾	AS/NZS 2269		H3 ^(3/4)	H3 ^(3/4)	H3 ^(3/4)	H3 ^(3/4)	
C Members protected from the weather but exposed to ground atmosphere (Section 108)								
Jackstuds, subfloor braces, bearers, wall plates, floor joists to the subfloor, blocking, subfloor wall studs, walings and battens, wall studs and noggs, diagonal boards	Pinus species	Structural grades	20 % or less	H1.2	H1.2	H1.2	H1.2	
	Larch	Structural grades		None	None	None	None	
	Cypress species ⁽⁶⁾	Structural grades sapwood		H1.2	H1.2	H1.2	H1.2	
	Cypress species ⁽⁶⁾	Structural grades heart		None	None	None	None	
	Douglas fir	Structural grades		not specified	no agreement	not specified	equivalent to H1.2	
	LVL	AS/NZS 4357		18 % or less	None	None	None	None
Plywood sheet bracing	Pinus species	AS/NZS 2269	18 % or less	H1.2	H1.2	H1.2	H1.2	
Interior flooring suspended ground floors	Plywood	AS/NZS 2269	18 % or less	None	None	None	None	
	LVL ⁽⁷⁾	AS/NZS 4357		None	None	None	None	
	Particleboard and other wood-based products ⁽⁷⁾	AS/NZS 1859.1 AS/NZS 1859.2		None	None	None	None	
	Pinus species	Dressing		H1.1	H1.1	H1.1	H1.1	
	Cypress species ⁽⁶⁾	Dressing sapwood		H1.1	H1.1	H1.1	H1.1	
	Cypress species ⁽⁶⁾	Dressing heart		None	None	None	None	
	Matai	Dressing sapwood		H1.1	H1.1	H1.1	H1.1	
	Matai	Dressing heart		None	None	None	None	
	Rimu	Dressing sapwood		H1.1	H1.1	H1.1	H1.1	
	Rimu	Dressing heart		None	None	None	None	
	Eucalyptus species	Dressing		None	None	None	None	
	Tawa	Dressing		H1.1	H1.1	H1.1	H1.1	

3602 Table 1 (continued) – Wood based building components requiring a 50 year durability performance

					Level of Treatment			
Wood based building components	Species or type ⁽¹⁾	Grade or standard ref.	In service moisture range %	3602 Aug	3602 Oct	BIA Aug	BIA Nov	
D Members protected from the weather but with a risk of moisture conducive to decay (Section 109)								
3602 Aug	3602 Oct							
Sarking and framing not protected from solar driven moisture through absorbent cladding materials(8)	Plywood	AS/NZS 2269	20% or less	H3 ⁽³⁾	H3 ⁽³⁾	H3 ⁽³⁾	H3 ⁽³⁾	
	Radiata pine	Merchantable		H3.1	H3.1	H3.1	H3.1	
Members supporting and inside weatherclad decking or balconies such as joints, lintels, wall plates and studs, together with cladded balustrades, boxed columns and chimneys	Members supporting and those within weatherproof- enclosed decks or balconies, parapets, eladed enclosed balustrades, boxed columns and chimneys	Radiata pine	Structural grades	20% or less	H3.1	H3.1	H3.1	H3.1
not specified	Members within enclosed flat roofs	Radiata pine	Structural grades	20% or less	not specified	H3.1	not specified	H3.1
sheet material providing wall bracing		Plywood	AS/NZS 2269	20% or less	H3 ⁽³⁾	H3 ⁽³⁾	H3 ⁽³⁾	H3 ⁽³⁾
Valley boards and boards supporting flashings or box gutters to roof penetrations and upstands to roof decks (10)		Radiata pine	Merchantable	20% or less	H3.1	H3.1	H3.1	H3.1
		Plywood	AS/NZS 2269		H3 ⁽³⁾	H3 ⁽³⁾	H3 ⁽³⁾	H3 ⁽³⁾
not specified	Skillion roof framing, not including exposed timbers	Radiata pine	Structural grades	20% or less	not specified	H1.2	not specified	H1.2
		Douglas fir	Structural grades	20 % or less		H1.2		H1.2
All framing in housing including external wall framing, roof framing and trusses, ceiling joists, inter-storey floor joists and internal framing	Timber in exterior walls clad with masonry veneer or timber-weatherboards that comply with E2/AS1- on a simple single storied house of low risk	Radiata pine	Structural grades	20% or less	H1.2	not agreed on in committee	H1.2 (not specific to house framing)	Untreated kiln dried or H1.1 pinus
		Douglas fir	Structural grades		None	not agreed on in committee		not specific to house framing
		Cypress species ⁽⁶⁾	Structural grades heart		None	None		None
not specified	Timber in exterior walls including boundary joists, where claddings are fixed directly to the framing and do not comply with E2/AS1	Radiata pine	Structural grades	20% or less	not specified	H3.1	H3.1	H3.1
not specified	All other exterior wall construction systems including boundary joists, that ¹ comply with E2/AS1(11)	Radiata pine	Structural grades	20% or less	not specified	H1.2	H1.2	H1.2
		Douglas fir	Structural grades	20 % or less		not agreed on in committee	not specified	equivalent to H1.2
Battens used behind cladding to form a cavity		Radiata pine	Merchantable	20% or less	H3.1	H3.1	H3.1	H3.1
Members to which shelf angles and lintel angles supporting masonry veneers are fixed and their adjoining and supporting members, including lower storey studs		Radiata pine	Structural grades	20% or less	H3.1	H3.1	H3.1	H3.1
bold - denotes BIA added words								
strikethrough - denotes BIA removed words								

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					Level of Treatment				
Wood based building components	Species or type ⁽¹⁾	Grade or standard ref.	In service moisture range %	3602 Aug	3602 Oct	BIA Aug	BIA Nov		
E Members not exposed to weather or ground atmosphere and in dry conditions, and not at risk of moisture conducive to decay (Section 110)									
3602 Aug	3602 Oct								
all roof, ceiling and eaves framing and sarking including skillion roof framing, valley boards and boards supporting flashngs and box gutters All exterior wall framing where there is a drained ventilated cavity separated from separated from a masonry cladding by masonry tiles	All roof trusses, roof, ceiling and eaves framing and sarking excluding skillion roof framing. All midfloor framing excluding boundary joists but including associated ceiling . framing	Pinus species	Structural grades	20 % or less	H1.1	H1.1	H1.1	H1.1	
		Douglas fir	Structural grades		None	None	None	None	
		Larch	Structural grades		None	None	None	None	
		Cypress species ⁽⁶⁾	Structural grades sapwood		H1.1	H1.1	H1.1	H1.1	
		Cypress species ⁽⁶⁾	Structural grades heart	None	None	None	None		
		Kiln dried and gauged Pinus species	Structural grades	18 % or less	None	None	None	None	
		LVL	AS/NZS 4357	18 % or less	None	None	None	None	
	All load bearing walls All midfloor framing including associated ceiling framing Commercial and industrial buildings only:	Internal walls excluding those supporting decks and	Pinus species	Framing - No. 2 or Structural grades	20 % or less	H1.1	H1.1	H1.1	H1.1
			Douglas fir	Structural grades		None	None	None	None
			Larch	Structural grades		None	None	None	None
Cypress species ⁽⁶⁾			Structural grades sapwood	H1.1		H1.1	H1.1	H1.1	
Cypress species ⁽⁶⁾		Structural grades heart	None	None	None	None			
Kiln dried and gauged Pinus species		Framing - No. 2 or Structural grades	18 % or less	None	None	None	None		
		LVL	AS/NZS 4357	18% or less	None	None	None	None	
internal wall - bracing		Plywood	AS/NZS 2269	18 % or less	None	None	None	None	
	Particleboard and wood-based products	AS/NZS 1859	None		None	None	None		
Interior flooring	Plywood	AS/NZS 2269	18 % or less	None ⁽⁷⁾	None ⁽⁷⁾	None ⁽⁷⁾	None ⁽⁷⁾		
	Particleboard and wood-based products ⁽¹²⁾	AS/NZS 1859		None ⁽⁷⁾	None ⁽⁷⁾	None ⁽⁷⁾	None ⁽⁷⁾		
	Pinus species	Dressing	16 % or less	H1.1	H1.1	H1.1	H1.1		
	Cypress species ⁽⁶⁾	Dressing sapwood		H1.1	H1.1	H1.1	H1.1		
	Cypress species ⁽⁶⁾	Dressing heart		None	None	None	None		
	Matai	Dressing sapwood		H1.1	H1.1	H1.1	H1.1		
	Matai	Dressing heart		None	None	None	None		
	Rimu	Dressing sapwood		H1.1	H1.1	H1.1	H1.1		
	Rimu	Dressing heart		None	None	None	None		
	Beech – silver, red, hard	Dressing sapwood		H1.1	H1.1	H1.1	H1.1		
	Beech – silver, red, hard	Dressing heart		None	None	None	None		
	Eucalyptus species	Dressing sapwood		H1.1	H1.1	H1.1	H1.1		
	Eucalyptus species	Dressing heart		None	None	None	None		
	Tawa	Dressing		H1.1	H1.1	H1.1	H1.1		

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