Preservative System	Key Features	Key Benefits	Limited Guarantee*		
Lifewood® CCA (H1-H6) Chromated copper arsenate	- Water carrier. - Proven durability in harshest conditions. - Fungicide and Insecticide.	 Economical. Reliability & confidence. Proven resistance to fungal decay and insect attack. 	50 years		
NatureWood®ACQ® (H1-H5) Alkaline copper quat	 Copper based preservative. Water carrier. Long term protection in all conditions. (except H6) Fungicide and Insecticide. 	 Alternative system for above and in ground contact. Proven durability. Proven resistance to fungal decay and insect attack. 	50 years		
Protim[®] LOSP H1.1 Permethrin	- Light Organic Solvent Preservative. - Insecticide.	 Used for preservation of timber where kiln dried product of exacting dimensions is required. Proven resistance to borer attack. 	25 years		
Protim® FramePlus™ (H1.2) IPBC + Permethrin	- Light Organic Solvent Preservative. - Fungicide and Insecticide.	 Used for preservation of timber where kiln dried product of exacting dimensions is required. Proven resistance to fungal decay and borer attack. 	5-15 years		
Protim[®] LOSP H3.1 (available in three formulations as set out below).	- Light Organic Solvent Preservative.	- Used for preservation of timber where kiln dried product of exacting dimensions is required.	25		
TBTN + Permethrin (Can be used for domestic use and timber exports to Australia (H3 - AS1604)).	- Fungicide and Insecticide.	 Proven resistance to fungal decay and <u>termite</u> attack. 	25 years		
ТВТО	- Fungicide.	 Proven resistance to fungal decay and <u>borer</u> attack. 			
Protim [®] Optimum [™] (H3.1) Propiconazole + Tebuconazole + Permethrin (Can be used for domestic use and timber exports to Australia (H3 - AS1604)).	- Light Organic Solvent Preservative. - Fungicide and Insecticide.	 Used for preservation of timber where kiln dried product of exacting dimensions is required. Proven resistance to fungal decay and insect attack. 	25 years		
Liquid Boron™ (H1.1/H1.2/H3.1) Boron	- Water carrier. - Fungicide and Insecticide.	- Economical. - Proven resistance to fungal decay and insect attack.	5-15 years		
FramePro™ (H1.1/ H3.1) Boron and benzalkonium chloride	- Can be applied by modified low uptake vac/pressure process (Aqualite) to dry framing timbers.	 No significant change in dimension and moisture content. No significant effect on the properties of timber. 	Boron HILI-HEL		

* See separate limited guarantee document for more details

Note: Refer to the New Zealand Standard 3640:2003 for detailed information.

Osmose New Zealand Customer Support 0800 78 70 70 www.osmose.co.nz

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Osmose Guide to the Hazard Class System & **TIMBER PRESERVATION** options in New Zealand



Preservation Technology at Work

Hazard Class 1.1

Exposure: Protected from the weather, above ground **Conditions:** Protected from the weather, always dry **Biological Hazard:** Borers Typical Uses: Interior finishing timber - see NZS3602

Hazard Class 1.2

Exposure: Protected from the weather, above ground, but with a possibility of exposure to moisture **Conditions:** Protected from the weather, but with a risk of moisture content conducive to decay. **Biological Hazard:** Borers, decay Typical Uses: Wall framing - see NZS3602

> Jsmose Preservation Technology at Wor

Hazard Class 3.1

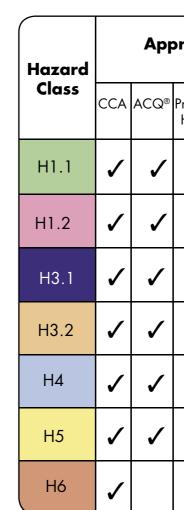
Exposure: Exposed to the weather, above ground **Conditions:** Periodic wetting, not in contact with the ground

Biological Hazard: Decay fungi and borers Typical Uses: Cladding, fascia, joinery - see NZS3602

PLEASE NOTE:

The illustration on this page is not a specification guide; its main purpose is to depict the various Hazard Classes as noted in NZS3640. The three different colors (Red, Blue and Green) shown on the internal framing timbers, simply indicate that there are different coloured dyes used to identify various timber preservation systems in Hazard classes H1.2 and H3.1. In some cases it is acceptable to use untreated framing timber and roof trusses. Please refer to NZ\$3602 for more detailed information.

	.	•
H1.2	Protim [®] FramePlus [™]	Blue
	Liquid Boron [™] / FramePro [™]	Pink
H3.1	Protim [®] Optimum [™] / Protim [®] LOSP H3.1	No colour added or Green
	Boron	Grey (Paint)



Guide to the New Zealand Hazard Class System

Hazard Class 3.2

Exposure: Exposed to the weather, above ground, or protected from the weather but with a risk of moisture entrapment

Conditions: Periodic wetting, not in contact with the ground, more critical end uses

Biological Hazard: Decay fungi and borers Typical Uses: All H3.1 uses, plus structural uses and decking - see NZS3602

Hazard Class 4

Exposure: Exposed to the weather, inground or fresh water

Conditions: Ground contact, or conditions of severe or continuous wetting

Biological Hazard: Decay fungi and borers **Typical Uses:** Fence posts, landscaping timbers

Hazard Class 5

Exposure: Exposed to the weather, inground or in fresh water

Conditions: Ground contact, or conditions of severe or continuous wetting, where uses are critical and where a higher level of protection than H4 is required Biological Hazard: Decay fungi and borers

Typical Uses: House piles and poles, crib walling

Colour coding for treated timber to be used as framing:

roved Osmose Preservative Systems (see back page for details)							
Protim [®] H1.1	Protim [®] FramePlus™	Protim [®] H3.1	Protim [®] Optimum [™]	FramePro™	Liquid Boron™		
✓	>	~	~	>	1		
	~	1	✓	\	1		
		1	1	√	1		

Hazard Class 6

Exposure: Sea water or estuarine ground **Conditions:** Immersion in seawater or estuarine ground **Biological Hazard:** Marine wood borers and decay **Typical Uses:** Marine timber and piles