

The following design specifications are provided only as a guide to assist in the design and construction of treated pine cantilever retaining walls. Proper use of treated pine logs and slabs in cantilever wall contruction will provide a beautiful long lasting, structurally sound, retaining wall system.

These specifications are for guideline purposes only. For further information contact a consulting engineer or your local shire council.



GIPPSLAND TREATED PINE

Ph. (03) 5134 5333 www.gtpine.com.au

Soil Type	Post Centre To Centre spacing (mm)	Wall Retain Earth Height	Post Embedment			Horizontal Walling		Alternative
			Drill Diameter (mm)	Min Depth	Diameter	Pine Planking (P5)	Round Walling (P5)	Embedment depth to Note 3
Average to Good Soils Hard Clay, Compact Fine Sand	900	900	300	800	125	200x50	100 DIA	700
		1200	300	1100	150	200x50	100 DIA	1000
		1500	300	1500	200	200x50	125 DIA	1300
	1200	900	300	900	150	200x50	100 DIA	800
		1200	300	1200	175	200x50	125 DIA	1000
		1500	450	1600	225	200x75	125 DIA	1400
	1800	900	300	1100	175	200x75	125 DIA	1000
		1200	450	1500	200	200x75	125 DIA	1300
		1500	450	1900	250 *1	200x75	125 DIA	1600
	2400	900	300	1300	175	200x75	125 DIA	1100
		1200	450	1700	225	200x100	125 DIA	1500
		1500	450	2200	250 *1	200x100	125 DIA	2000
Poor Soils Soft Clay, Clay Loam, Poorly Compacted Sand & Clays with Silt		900	300	1200	125	200x50	100 DIA	1000
	900	1200	450	1600	175	200x50	100 DIA	1400
		1500	450	1900	225	200x50	125 DIA	1700
	1200	900	300	1400	175	200x50	100 DIA	1200
		1200	450	1700	200	200x50	125 DIA	1500
		1500	450	2000	250 *1	200x75	125 DIA	1800
	1800	900	450	1600	200	200x75	125 DIA	1400
		1200	450	1900	225	200x75	125 DIA	1700
		1500	450	2300	275 *1	200x100	125 DIA	2000
		900	300	1800	175	200x75	125 DIA	1600
	2400	1200	450	2200	250 *1	200x100	125 DIA	1900
		1500	450	2700	300 *1	200x100	150 DIA	2400

*1 Check availability of 250,275 and 300 diameter posts before specifying these timbers. *2 The schedule does not permit surcharge loads to the walls.

*3 See figure 1 on reverse side for clarification of terminology

Notes

1.

3.

4.

- All timber used in the construction to be preservative treated in accordance with Australian Standard 1604
- Backfill material must be free draining and 2. must not exhibit expansive characteristics
 - Reduced embedment depths are only allowed where an additional continous in-ground sleeper is located immediately in front of each post. The sleeper must be 200 by 25mm thicker than the respective planking sleepers.
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Drive spikes into posts

Hazard Classification

Important Information

- Do not burn preserved wood 1.
- 2. Wear dust mask & goggles when cutting or sanding wood
- 3. Wear gloves when working with wood
- 4. Some preservative may migrate from the treated wood into soil/water or may dislodge from the treated wood surface upon contact with skin. Wash exposed skin areas thoroughly
- 5. All sawdust and construction debris should be cleaned up and disposed of after construction
- Wash work clothes separately from other household clothing before re-use 6.
- Preserved wood should not be used where it may come into direct or indirect 7. contact with drinking water, except for uses involving incidental contact such as fresh water docks and bridges
- 8. Do not use preserved wood under circumstances where the preservative may become a component of food, animal feed or beehives
- 9. Do not use preserved wood as mulch
- 10. Only preserved wood that is visibly clean and free of surface residue should be used
- 11. Do not use preserved wood in direct contact with aluminum
- 12. If the wood is to be used in an interior application and becomes wet during construction, it should be allowed to dry before being covered or enclosed
- 13. Disposal Recommendations: Preserved wood may be disposed of in landfills or burned in commercial or industrial incinerators or boilers in accordance with federal, state and local regulations
- 14. If you desire to apply a paint, stain, clear water repellent or other finish to your preservative treated wood, we recommend following the manufacturer's instructions and label of the finishing product. Before you start, we recommend you apply the finishing product to a small exposed test area before finishing the entire project to insure it provides the intended result before proceeding
- For more information visit www.naturewoodproducts.com
- 17. Mold growth can and does occur on the surface of many products, including untreated and treated wood, during prolonged surface exposure to excessive moisture conditions. To remove mold from the treated wood surface, wood should be allowed to dry. Typically, mild soap and water can be used to remove remaining surface mold. For more information visit www.epa.gov

Timber care

Cutting, notching or boring may expose untreated heartwood, A liberal coating of PROTIM RESEAL is recommended to restore the protective envelope. For more details refer to the PROTIM TimberCare product literature. The appearance and surface water repellency of Osmose LifeWood & NatureWood can be

enhanced periodically with PROTIM RainCoat UV Plus.



MARINE WATERS H6

CONDITIONS: Subject to prolonged immersion in sea water. BIOLOGICAL HAZARD: Marine wood borers and decay fungi. EXAMPLES: Boat hulls, marine piles, jetty cross-bracing, landing steps and similar

Note: Please refer to the complete standards for more detailed information. **as per AS1604 and NSW TMA.

*For further information see separate brochure, consumer information and handling guide and guarantee documents or visit www.osmose.com.au.

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CCA products are treated with Chromated Copper Arsenate preservatives. ACQ products are treated with Alkaline Copper Quaternary preservatives. PROTIM® LOSP products are treated with Tributyltin, Permethern and/or IPBC preservatives. © 04/2005 Osmose

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These plans bave been checked and approved (at the time of printing) by Roy B.Hoskins & Associates of Qld 4006 (Structural & Civil Engineers), to be technically accurate and designed in accordance with the appropriate Australian Building standards. As local & National laws are subject to change, please ensure you check with your local authorities prior to starting construction.

For customer service please call: **GIPPSLAND TREATED PINE PTY LTD** Ph. (03) 5134 5333 Fax. (03) 5134 8979 8 Kirwin Road Morwell 3840

H1 INSIDE, ABOVE GROUND **CONDITIONS:** Completely protected from the weather and well-ventilated. BIOLOGICAL HAZARD: Lyctid borers.

Australia

EXAMPLES: Susceptible framing, flooring, furniture and interior joinery.

INSIDE, ABOVE GROUND 12

CONDITIONS: Protected from wetting.

BIOLOGICAL HAZARD: Borers including termites.

EXAMPLES: Framing, flooring and similar, used in dry situations.



Conditions and Biological hazard as for H2 although approved for use South of the Tropic of Capricorn only. Example: Framing (envelope treatment).

H2 S

Conditions and Biological hazard as for H2 although approved for use South of the Tropic of Capricorn only. Example: LVL / Plywood (glue-line treatment).

OUTSIDE, ABOVE GROUND H3

CONDITIONS: Subject to periodic moderate wetting BIOLOGICAL HAZARD: Moderate decay fungi, borers and termites. EXAMPLES: Weatherboard, fascia, pergolas (above ground), window joinery, framing, decking and laminated verandah posts.

H3A** OUTSIDE, ABOVE GROUND

CONDITIONS: Products predominantly in vertical exposed situations and intended to have the supplementary paint coat system that is regularly maintained

BIOLOGICAL HAZARD: Moderate decay fungi, borers and termites.

EXAMPLES: Fascia, barge boards, exterior cladding, window joinery, door joinery and non-laminated verandah posts.

OUTSIDE, IN-GROUND Η4

CONDITIONS: Subject to severe wetting

BIOLOGICAL HAZARD: Severe decay fungi, borers and termites. **EXAMPLES:** Fence posts, garden walls less than 1m high, greenhouses, posts and landscaping timbers.

OUTSIDE, IN-GROUND OR IN 6

CONDITIONS: Subject to extreme wetting and/or where the critical use requires a higher degree of protection.

BIOLOGICAL HAZARD: Very severe decay fungi, borers and termites.

EXAMPLES: Retaining walls, piling, house stumps, building poles and cooling tower fill.

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