

Specification Data Sheet

American Pole and Timber



**American
Pole & Timber**

1. Product Name

■ Gun Barrel Piling™ or Poles

2. Manufacturer

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3. Product Description

Basic Use:

For structural and aesthetic uses where round, solid wood is desirable and uniformity is beneficial to the construction process.

Composition and Materials:

Composed of solid round timber of different species (pine, cypress, fir, cedar). Gun Barrel Pilings can be treated in a variety of treatments and retentions. Pilings can also be treated for extended life building applications, such as exterior supports, piling, lateral members or untreated for interior applications, such as beams, columns or feature pieces.

Color and Finishes

Color can vary by species and treatment. Finish options include:

- Smooth
- Hand Hewn
- Rough

Gun Barrel Pilings are available with polymer coating. Please contact the manufacturer for additional information on the benefits of poly-coated wood and poly-coated Gun Barrel Pilings.

Benefits

Gun Barrel Pilings provide a uniform (predictable) diameter and straightness throughout their length. Also, round pilings provide less resistance to water and wind currents, which is often a desirable feature.



Columbus Zoo

Sizes

Gun Barrel Pilings are available from 2–24 inches in diameter and up to a length of 52 feet, subject to availability of raw material in desired sizes.

Gun Barrel Pilings can be custom milled with a flat face, split in half as a half round, coped, turned down in one area to accept steel caps or hardware and even intentionally tapered in a conical shape. Contact American Pole and Timber for any special milling requirements.

All Gun Barrel Pilings can be treated in a variety of treatments and retentions. American Pole and Timber can meet all American Wood Preserver Standards (AWPA) including, but not limited to, CCA, MCA, CA, Creosote, Borate and Fire Retardant. Retention would include all AWPA UC standards.

AWPA Standards are the only standards listed directly in the major model building codes where treated wood is required, so any product meeting AWPA Standards is code approved. AWPA are experts in wood protection review product performance data and in the ANSI-accredited, consensus-based standards development process.

Suitable treatments are available for animal contact ideal for zoos, theme parks and other public access structures.

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House Piling



Oklahoma City Zoo

Gun Barrel Pilings are made in accordance to ANSI 05.1 Material Requirements Sections 5.1.1-5.4.13. Due to the method of manufacture, the standard for taper under ANSI 05.1, including, but not limited to, ASTM D25, does not apply as it takes natural taper into account.

4. Technical Data

Applicable Standards

American Society for Testing and Materials (ASTM)

- ASTM D25-12—Standard Specification for Round Timber Piles

American National Standards Institute (ANSI)

- ANSI 05.1—Specifications and Dimensions for Wood Poles

Table 1—Treated Wood Piling Uses

Category	Description	Uses
UC1	Interior, not in contact with ground or foundation	Interior furniture, millwork
UC2	Interior, subject to dampness	Interior beams, flooring, sill plate
UC3A	Exterior, above ground, coated	Plywood siding
UC3B	Exterior, above ground, may be finished	Highway bridge railing
UC4A	Exterior, ground or freshwater contact in areas with low risk	Fence posts, deck posts, poles
UC4B	Exterior, ground or freshwater contact, severe environments, high potential for deterioration	Utility poles, building poles, permanent wood foundations
UC4C	Exterior, ground or freshwater contact, very severe conditions or very critical structural components	Freshwater piling, foundation piling, utility poles in semi-tropical or tropical environments
UC5A	Saltwater exposure—north of San Francisco and New Jersey	Piling, bulkheads
UC5B	Saltwater exposure—south of San Francisco on West coast, New Jersey through Georgia on East coast	Piling, bulkheads
UC5C	Saltwater exposure—south of Georgia, Gulf Coast	Piling, bulkheads
UCFA	Fire protection, weather-shielded	Framing
UCFB	Fire protection, exterior	Siding, shakes, stairways

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American Wood Protection Association (AWPA)

- AWPA U1—User Category System: User Specification for Treated Wood

Fire Performance

- AWPA UCFA—Fire Treated Wood, Interior
- AWPA UCFB—Fire Treated Wood, Exterior

Water Performance

- AWPA UC4A—Ground Contact, General Use (Ground Engineering with GB Pilings is simplified since their dimensions are uniform and therefore predictable
Contact or Fresh Water Non-critical Components)
- AWPA UC4B—Ground Contact, Heavy Duty (Ground Contact or Fresh Water Critical Components or Difficult Replacement)
- AWPA UC4C—Ground Contact, Extreme Duty (Ground Contact or Fresh Water Critical Structural Components)
- AWPA UC5A—Marine Use, Northern Waters (Salt or Brackish Water)
- AWPA UC5B—Marine Use, Central Waters (Salt or Brackish Water)
- AWPA UC5C—Marine Use, Southern Waters (Salt or Brackish Water)

Insect Resistance Performance

- Per AWPA Standards

5. Installation

For vertical applications, Gun Barrel Pilings may be:

- Driven into the ground
- Drilled and set in the ground
- Fastened to any form of concrete foundation

Gun Barrel Pilings can be installed as beams for horizontal construction. The beams can be mounted and bolted as with other wood products.

6. Availability and Cost

Availability

Gun Barrel Pilings are made to order.

Cost

Cost information may be obtained from manufacturer.

7. Warranty

Warranty is available in accordance with application and chemical treatment process. No warranty is available by American Pole and Timber.



boathouse under construction



Polymer coated

8. Maintenance

Gun Barrel Pilings are a natural wood product and should be maintained in the same manner as other wood products.

9. Technical Services

American Pole and Timber offers independent third party services. Advice as it pertains to general construction practices can be obtained from an American Pole & Timber representative.

10. Filing Systems

- Additional product information is available from the manufacturer upon request