

**Table 5A: Sawn Products, Commodity Specification A<sup>1</sup>  
End Use Commodities**

<b>End-Use Commodity</b>	<b>Use Category (UC)</b>	<b>End-Use Commodity</b>	<b>Use Category (UC)</b>	<b>End-Use Commodity</b>	<b>Use Category (UC)</b>
<i>Bender Board</i>	4A	<i>Furniture</i>		<i>Millwork, Trim</i>	3A-B
<i>Bulkhead Sheathing, non-marine</i>	4A	Indoor	1	<i>Pergola</i>	4A
<i>Cant Strips</i>	3B	Outdoor, Above Ground	3B	<i>Piles, sawn</i>	
<i>Cribbing, Highway</i>	4C	Outdoor, Ground Contact	4A	Structural support	4B
<i>Crossarms, Sawn</i>		<i>Furring Strips</i>		Structural support, critical	4C
General use	3B	Indoor	2	<i>Poles, sawn</i>	
Critical, hard to replace	4A	Outdoor	3B	Agricultural/Farm	4A
<i>Decking (heavy)</i>		<i>Gazebo Material</i>	3A-B	Structural Building	4C
Above Ground, exterior	3B	<i>Handrails/Guardrails, highway</i>	3B	<i>Posts, sawn</i>	
Building Construction, general	4A	<i>Joists</i>		General, Fence, Highway	4A
Highway Bridge, critical/severe decay	4B	Above Ground, Interior, Dry or Damp	1-2	Agricultural Use, Spacer Blocks	4B
<i>Decks, Residential</i>		Building Construction, Above Ground, Exterior	3B	Important Building Structural	4C
Above Ground		Ground Contact or Fresh Water	4A	Playground, sawn & round, see Table 6	
Decking, Railing Components	3B	<i>Landscape Ties</i>	4A	<i>Purlins</i>	
Joists	3B	<i>Lattice</i>	3B	Above Ground, Interior	1-2
Ground Contact		<i>Lumber/Timbers</i>		Above Ground, Exterior	3A-B
Joists	4A	Above Ground, Interior, Dry or Damp	1-2	<i>Shakes &amp; Shingles</i>	3B
Support Posts (Sawn)	4A	Above Ground, Exterior		<i>Siding, Beveled or Not</i>	3A-B
<i>Expansion Boards</i>	4A	Coated & rapid water run-off	3A	<i>Sill Plates</i>	2
<i>Fascia Boards</i>	3A-B	Uncoated or poor water run-off	3B	<i>Skirtboard</i>	4A
<i>Fence Pickets</i>	3A-B	Ground Contact or Fresh Water		<i>Stakes (sawn), Agricultural</i>	4A
<i>Fence Rail</i>	3A-B	Non-critical components	4A	<i>Studs</i>	1-2
<i>Floor Plate</i>	3B	Critical, difficult replacement	4B	<i>Ties, Mine &amp; Bridge</i>	4A
<i>Flooring</i>		Critical structural components	4C	<i>Trusses</i>	
Above Ground, Interior, Dry or Damp	1-2	Agriculture, Highway, Industrial, Structural		Roof, Dry or Damp	1-2
Residential/Commercial Veranda	3B	Brine Storage & Retaining Walls	4A	Floor, Above Ground	3B
<i>Flooring, Block</i>		Crib Walls & Important Structural	4B	<i>Veranda Supports</i>	4A
Above Ground, low humidity	2	Cooling Towers	4A		
Above Ground, high humidity	3A	Marine Out of Water			
		Salt Water Splash <sup>3</sup> , Above Ground	4B		
		Salt Water Splash <sup>3</sup> , Ground Contact	4C		
		Permanent Wood Foundation (PWF) <sup>10</sup>	4B		

**Table 5B: Wood Composites, Commodity Specification F<sup>1</sup>  
End Use Commodities**

<b>End-Use Commodity</b>	<b>Use Category (UC)</b>	<b>End-Use Commodity</b>	<b>Use Category (UC)</b>
<i>Plywood<sup>2</sup></i>		<i>Parallel Strand Lumber</i>	
Interior, Dry or Damp	1-2	Interior, Dry or Damp	1-2
Farm, Subflooring, Roof Decking	3B	Structural	3B
Agricultural, Highway, Industrial	4A	Highway, Structural, General	4A
Marine, Salt Water Splash	4B	Critical, High or Severe Decay	4B-C
<i>Glulam Beams (treated after gluing)</i>		<i>Laminated Veneer Lumber</i>	
Interior, Dry or Damp	1-2	Interior, Dry or Damp	1-2
Above Ground, Structural	3B	Structural	3B
Highway Structural, Low Decay	4A	Highway, Structural, General	4A
<i>Glulam Beams (treated prior to gluing)</i>		Critical, High or Severe Decay	4B-C
Interior, Dry or Damp	1-2		
Above Ground, Structural	3B		
Highway Structural, Low Decay	4A		
<i>Glulam Poles, see Table 8</i>			

**Using Tables 5A, 5B and 5C**

Find the specific AWPA End-Use Commodity and Use Category for a Sawn Lumber application in Table 5A (Commodity Specification A) or for a Wood Composite application in Table 5B (Commodity Specification F). Approved preservative retentions for Commodities A & F are listed in Table 5C, with AWPA approved preservatives indicated by corresponding Use Category and ICC approved preservatives indicated by general service condition. Footnotes for Tables 5A, 5B, and 5C are found on page 8.

**Table 5C: Sawn Products – Commodity Specification A, and Wood Composites – Commodity Specification F<sup>1</sup> Southern Pine Preservatives and Retentions**

**Approval Authority: American Wood Protection Association**

Classification	Preservative System	Use Category (UC) & Minimum Retention Requirements - Pounds per Cubic Foot (pcf)						
		UC1	UC2	UC3A	UC3B	UC4A	UC4B	UC4C
Creosote	Creosote (CR, CR-PS, CR-S) <sup>4</sup>	8.0	8.0	8.0	8.0	10.0	10.0	12.0
Oilborne	Copper-8-Quinolinolate (Cu8)	0.02	0.02	0.02	0.02			
	Copper Naphthenate (CuN)			0.04	0.04	0.06	0.75	0.75
	Pentachlorophenol (PCP-A&C)			0.04	0.40	0.50	0.50	0.50
Waterborne, Copper Based, Solution	Acid Copper Chromate (ACC) <sup>5</sup>				0.25	0.50		
	Alkaline Copper Quat (ACQ-C&D)	0.25	0.25	0.25	0.25	0.40	0.60	0.60
	Ammoniacal Copper Quat (ACQ-A&B) <sup>6</sup>	0.25	0.25	0.25	0.25	0.40	0.60	0.60
	Ammoniacal Copper Zinc Arsenate (ACZA) <sup>6</sup>	0.25	0.25	0.25	0.25	0.40	0.60	0.60
	Chromated Copper Arsenate (CCA) <sup>5</sup>				0.25	0.40	0.60	0.60
	Copper Azole (CA-B)	0.10	0.10	0.10	0.10	0.21	0.31	0.31
	Copper HDO Type A (CX-A)	0.206	0.206	0.206	0.206			
	Waterborne Copper Naphthenate (CuN-W)	0.070	0.070	0.070	0.070	0.11		
Waterborne, Carbon Based	DCOI + Imidacloprid (EL2)	0.018	0.018	0.018	0.018			
	Propiconazole-Tebuconazole-Imidacloprid (PTI)	0.013	0.013	0.013	0.013			
Waterborne, Borates	Inorganic Boron (SBX) <sup>7</sup>	0.17	0.17					

**Approval Authority: International Code Council Evaluation Service Report (ESR)**

Classification	Preservative System	ESR <sup>15</sup>	Service Conditions & Minimum Retention Requirements - Pounds per Cubic Foot (pcf)					
			Above Ground				Ground Contact / Fresh Water	
			Interior <sup>11</sup>	Fence <sup>12</sup>	Decking <sup>13</sup>	General Use	General Use	Critical <sup>14</sup>
Waterborne, Copper Based, Solution	Alkaline Copper Quat (ACQ-C&D)	628 <sup>9</sup>	0.15	0.15	0.15	0.25	0.40	0.60
		643 <sup>9</sup>	0.15	0.15	0.15	0.15	0.40	0.60
		1980	0.20	0.15	0.15	0.20	0.40	0.60
	Ammoniacal Copper Quat (ACQ-A&B)	1980	0.20	0.15	0.15	0.20	0.40	0.60
	Copper Azole (CA-B)	1721	0.10	0.10	0.10	0.21	0.31	
	Copper Azole (CA-C)	1721	0.06	0.06	0.06	0.15	0.25	
	Copper HDO Type A (CX-A)	1863	0.20	0.20	0.11	0.20	0.30	0.45
Waterborne, Copper Based, Suspension	Dispersed Copper Azole (μCA-C)	1721	0.05	0.05	0.05	0.14	0.23	
	Micronized Copper Azole (MCA)	2325	0.07	0.06	0.06	0.16	0.24	
	Micronized Copper Azole	2240	0.06	0.06	0.06	0.15	0.23	
	Micronized Copper Quat (MCQ)	1980	0.15	0.10	0.15	0.34	0.60	
Waterborne, Carbon Based	DCOI + Imidacloprid (EL2)	2067	0.0187	0.0187	0.0187			
	Propiconazole-Tebuconazole-Imidacloprid (PTI)	1477	0.013	0.013	0.013			
Waterborne, Borates	DOT & Polymer Binder <sup>8</sup>	1081	0.50	0.50	0.50			
	Inorganic Boron (SBX) <sup>7</sup>	648 <sup>9</sup>	0.17					

**Footnotes for Tables 5A, 5B and 5C**

(1)<sup>1</sup>“Commodity Specification” and “Use Category (UC),” copyright American Wood Protection Association, *Book of Standards, 2008 Edition*. (2) Plywood listed in Commodity Specification F include all except that treated for Marine (Salt Water) Applications (Commodity Specification G), and plywood treated for Permanent Wood Foundation (Commodity Specification A). (3) Salt Water Splash is the exposure of any member of a marine structure which is positioned above mean high tide, but is subject to frequent wetting from wave action or wind which supports intermittent degradation by marine organisms. (4) Creosote not recommended for interior-residential uses, or for applications where a clean appearance and an odor-free environment is important. (5) ACC and CCA are not approved for most residential and consumer-use applications. (6) Ammoniacal Copper Quat-B (ACQ-B) and Ammoniacal Copper Zinc Arsenate (ACZA) are AWPA approved waterborne treatments for Southern Pine; however, these formulations are used almost exclusively on difficult-to-treat Western species. (7) SBX may be used above ground where continuously protected from exposure to liquid water in applications such as sill plates or other enclosed structural framing at retentions (B<sub>2</sub>O<sub>3</sub> basis) of 0.17 pcf, or 0.28 pcf where Formosan termites are confirmed. (8) Not to be used in areas of Formosan termites. (9) International Code Council, National Evaluation Reports. (10) Preservative retentions apply to both PWF or FDN grade-marked lumber and plywood. (11) Above ground use continuously protected from liquid water. (12) Above ground vertical use fence boards and pickets. (13) Above ground decking and other specialties (railing, spindles, trim and fascia, lattice). (14) Critical structural members and wood foundation systems. (15) See Table 2, page 4, for report holder.