

A GUIDE TO SOUTHERN PINE LUMBER EXPORT GRADES



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The Southern Pine council does not grade or test lumber. Information contained herein is taken from the *2002 Standard Grading Rules for Southern Pine Lumber, 2002 Edition*, and the *Export Grading Rules, 1982 Edition*, both published by the Southern Pine Inspection Bureau (SPIB).

The conditions under which lumber is used in construction may vary widely, as does the quality of workmanship. Neither the Southern Pine Council nor its members have knowledge of the quality of the workmanship or construction methods used on any construction project, and accordingly, do not warrant the design or performance of the lumber in completed structures.

USING THIS BOOKLET

This publication includes photographs of Southern Pine lumber, illustrating a range of typical lumber grades. The samples shown are representative of lumber mill production practices. The primary characteristic of each grade are defined, along with the typical applications.

This publication is not a lumber grading manual. The information presented here is intended as a guide for buyers, users, and

specifiers to properly identify the grade of Southern Pine that best meets their requirements.

Lumber production practices vary from mill to mill. Manufacturers of rough, kiln-dried Southern Pine destined for export markets have the capability to produce lumber to different specifications and variances, depending on the specific needs of a customer, or the intended application.

SOUTHERN PINE LUMBER

Southern Pine grows in a wide geographic belt, stretching from East Texas through Virginia. The name Southern Pine, or Southern Pine Yellow Pine, is representative of a group of four principal tree species: longleaf, shortleaf, loblolly, and slash. Lumber from all four species is marketed as Southern Pine and graded in accordance with the grading rules of Southern Pine Inspection Bureau (SPIB), approved by the American Softwood Lumber Standards Committee. The natural characteristics that distinguish Southern Pine as a most versatile and durable building material are:

High Strength – Design values assigned for Southern Pine are among the highest of all softwoods. Southern Pine has earned a reputation as the “Supreme Structural Wood of the World”.

Durability – Southern Pine is highly resistant to wear. It is ideally suited for high-traffic applications such as boardwalks, decks, and flooring.

Fastener Holding – Southern Pine’s ability to hold nails and other fasteners is among the highest of all softwoods. Drying (or seasoning) of Southern Pine lumber enhances fastener-holding capability.

Treatability – Southern Pine has long been a preferred species when pressure treatment with preservatives is required. The unique cellular structure of Southern Pine permits deep, uniform penetration of preservatives, rendering the wood useless as a food source for fungi, termites and micro-organisms.

Most wood species do not readily accept preservatives, and must first be incised, or perforated with a series of small slits along the grain of the wood’s surface. Incising allows sufficient penetration of the preservative to meet American Wood Preservers’ Association (AWPA) Standards. Southern Pine is one of the few wood species that does not require incising prior to treatment.

LUMBER GRADES

Southern Pine lumber is produced in different grades, as well as different sizes. Each lumber grade limits certain characteristics such as knots, checks and splits. Along with manufacturing imperfections, these characteristics will contribute to the overall appearance of a piece of lumber.

At the mill, lumber grades are assigned by visual inspection of each piece. For lumber destined to be used in U.S. construction markets, this inspection is more a judgement of the relative strength properties within a piece than of its appearance. For material to be exported, appearance considerations as

well as relative strength properties of a piece are often a deciding factor in assigning a lumber grade.

The samples pictured in this publication include examples of allowable characteristics within each grade, as described in SPIB's 2002 Standard Grading Rules, and SPIB's Export Grading Rules, 1982 Edition, approved by the American Standards Committee, in accordance with Product Standard PS 20-94.

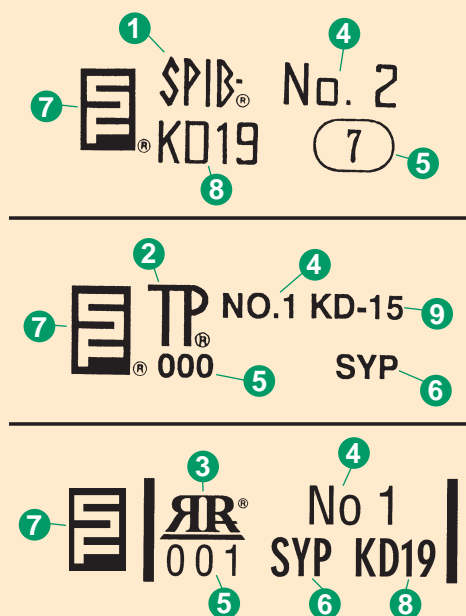
A complete lumber grade description should be included with any buyer's order, and is considered an agreement between buyer and seller of specific characteristics allowed within each grade purchased.

SPECIFY GRADE-MARKED SOUTHERN PINE

Quality Southern Pine lumber is graded in accordance with the grading rules of the Southern Pine Inspection Bureau (SPIB). SPIB, Timber Products Inspection, Inc. (TP), Renewable Resource Associates, Inc. (RRA) and other organizations are accredited by American Lumber Standard Committee, Inc. (ALSC) to inspect and grade mark Southern Pine

lumber in accordance with SPIB grading rules.

An authorized grade mark on each piece of Southern Pine lumber assures the buyer that the product specified is being received. The inspection agency is identified (SPIB, TP or RRA among others**) along with the grade of the piece, its moisture content, and a mill number identifying the manufacturer. SFPA members can include the association's logo in the grade mark, but this logo is optional.



1. Inspection Service: Southern Pine Inspection Bureau (SPIB)
2. Inspection Service: Timber Products Inspection, Inc. (TP)
3. Inspection Service: Renewable Resource Associates, Inc. (RRA)
4. Lumber Grade
5. Mill Identification Number
6. Lumber Species
7. (optional) Logo denoting a member mill of Southern Forest Products Association (SFPA)
8. Moisture Content: (MC) Kiln-dried (KD) to a maximum of 19%*
9. Moisture Content: (MC) Kiln-dried (KD) to a maximum of 15%*

*Information regarding Moisture Content (MC) can be denoted as "KD" or "KD19", kiln-dried to 19% moisture content; "KD15", kiln-dried to 15% moisture content; "MC15", air dried and/or kiln-dried to a maximum moisture content of 15%.

**Note: Other agencies are accredited by ALSC to inspect and grade all or selected Southern Pine products according to SPIB Grading Rules, including: California Lumber Inspection Service (CLIS); Northeastern Lumber Manufacturers Association (NELMA); West Coast Lumber Inspection Bureau (WCLIB); and Western Wood Products Association (WWPA).

DENSE LUMBER

Wood density is another characteristic that affects the strength of a piece of lumber. Density is related to a tree's rate of growth; the more annual growth rings per inch, the greater the density of the lumber.

For purposes of lumber grading, and as defined with the SPIB Standard Grading Rules for Southern Pine Lumber, density is divided into two classifications:

Dense – six or more annual growth rings per inch and at least one third summerwood, or four rings per inch and at least 50% summerwood.

NonDense – fewer rings and less summerwood than in dense lumber.



Pictured: 2x4 Dense Select Structural (top); 2x4 No. 1 NonDense (bottom)

Dense lumber, which is stronger than nondense lumber, may be specified when higher design values are required.

For this publication, nondense grades are pictured. Certain Southern Pine mills produce dense grades, though availability of all dense grades may be limited. Grade designations for dense lumber are:

Dense Select Structural
No. 1 Dense
No. 2 Dense

CONSTRUCTION GRADES

Lumber production practices vary among mills. Many Southern Pine mills produce and market material destined for export markets classified under a category known as "Construction Grades":

No. 1 Construction Grade No. 2 & Better No. 3 & Better

This material is all rough-sawn, kiln-dried lumber cut to full dimension widths and thicknesses, and graded to meet the requirements of the corresponding lumber grade as described in the SPIB Standard Grading Rules for Southern Pine Lumber, 1994 Edition. Construction Grades are made available to importers, buyers and specifiers outside the U.S. for custom remanufacturing, or to be resawn to specific sizes (e.g. metric) or patterns.

KILN DRYING ASSURES DIMENSIONAL STABILITY

The vast majority of Southern Pine lumber production is properly seasoned, by drying in a kiln, to a maximum moisture content of 19%. Kiln drying the lumber not only improves dimensional stability, its strength and appearance, but also minimizes shrinkage of the final product in service. In addition, kiln drying is an accepted method of sterilizing the lumber from the unwanted transfer of micro-organisms.

Southern Pine grading rules restrict moisture content of lumber 50mm (2") or less in thickness to a maximum of 19%. If specified as "KD19", the maximum is 19 percent .

Moisture content restrictions apply at the time of shipment to the buyers, as well as at the time of dressing if dressed lumber is involved.

Material identified by a certified grade mark is evidence that the Southern Pine lumber has been properly seasoned, and

is considered sterilized by most importing countries.

Lumber absorbs or loses moisture depending on the surrounding temperature and humidity. Within a typical shipment, Southern Pine lumber dried to a maximum moisture content of 19% will average 15% and if dried to a maximum moisture content of 15% will average 12%.

Once kiln-dried Southern Pine shipments are delivered, proper storage is essential to maintain dimensional stability. For builders and other users, kiln-dried lumber reduces costly and unsightly problems such as warp, twist, stain, and crook.



AN ENVIRONMENTAL ASSET

Wood products have so many cost and construction advantages over other building materials that it is easy to forget what an environmental asset it is to use wood.

We sometimes forget that wood is naturally reusable, recyclable and biodegradable. Or the best insulator of all structural building materials, thus conserving finite fossil fuel and coal by requiring less energy to heat an cool a home built with wood. Or that it takes far less energy to transform trees into wood products than it does to manufacture steel, aluminum, masonry or plastic products. Less pollution of the air



and water, too.

Wood is also renewable. Ores and petroleum used for nonwood products, once use are not renewable. They are gone forever.

Trees however, are forever. Contrary to what alarmists say. America is not running out of trees. More trees are grown each year in the U.S. than are harvested or lost to disease, insects and fire. A third of America is covered with trees today, more than we had 75 years ago. And being planted at the rate of nearly four million a day -- five trees a year for every American.

Finally, remember that a growing forest removes the greenhouse gas carbon dioxide, while giving off life-sustaining oxygen. Can you think of a better environmental exchange than that?

SELECT STRUCTURAL

This is a high-quality grade, relatively free of characteristics which impair strength or stiffness. Recommended for uses where high strength, stiffness, and good appearance are desired.

Typical applications may include ceiling and floor joists, and exposed roof rafters.



Pictured: 2x4 (38mm x 89mm) Select Structural
Length: 12' (3.94m)

No. 1

This grade is recommended for general utility and construction where high strength, stiffness, and good appearance are desired. Typical uses may include the bottom chord of an engineered truss, the part where is highest strength is required, or for long-span floor joists.



Pictured: 2x6 (38mm x 140mm) No. 1
Length: 10' (3.048m)

No. 1
CONSTRUCTION GRADE

Rough sawn, kiln dried, and
manufactured to full dimension
sizes in thickness and width.*



Pictured: 2x6 (50mm x 100mm) No.1 Construction Grade
Length: 10' (3.048m)

*See the product
description
"Construction
Grades" on page 2.

No. 2

This grade is the most commonly available and is recommended for most general uses where moderately high design values are required.



*Pictured: 2x6 (38mm x 140mm) No. 2
Length:10' (3.048m)*

**No. 2 & BETTER
CONSTRUCTION GRADE**

Rough sawn, kiln dried, and
manufactured to full dimension
sizes in thickness and width.*



Pictured: 2x6 (50mm x 150mm) No. 2 Construction Grade
Length: 10' (3.048m)

*See the product
description
"Construction
Grades" on page 2.

No. 3

This grade is assigned design values to meet a wide range of design requirements. It is recommended for general construction applications where appearance is not a controlling factor. Many pieces within this grade would qualify as No. 2 except for a single limiting characteristic. This lumber grade is commonly used for truss webs, or for non-building applications such as pallets, concrete forming, and other industrial uses.



Pictured: 2x6 (38mm x 140mm) No. 3
Length: 10' (3.048m)

No. 3 & BETTER
CONSTRUCTION GRADE

Rough sawn, kiln dried, and
manufactured to full dimension
sizes in thickness and width.*



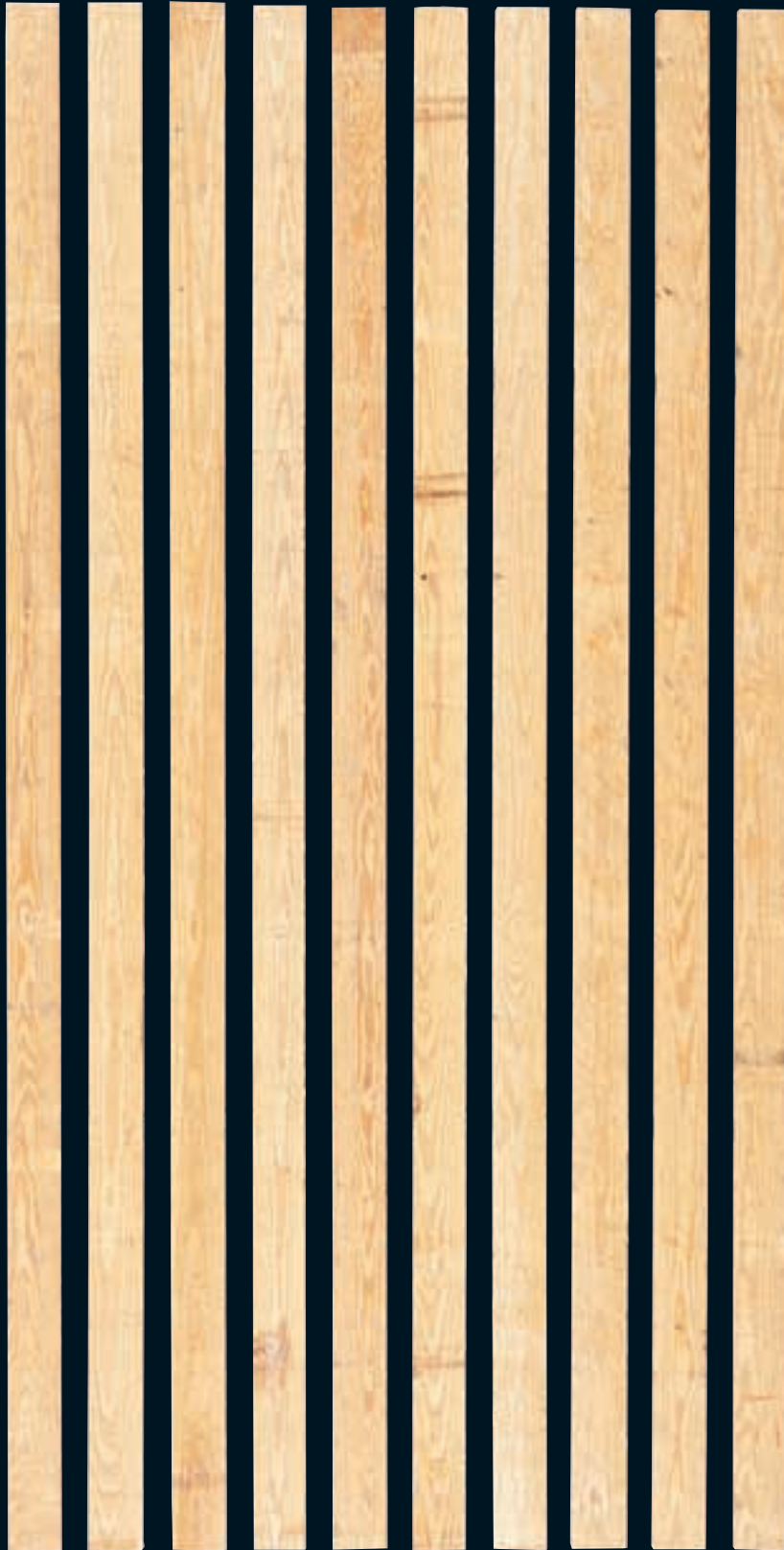
Pictured: 2x6 (50mm x 150mm) No. 3 Construction Grade
Length: 10' (3.048m)

*See the product
description
"Construction
Grades" on page 2.

SAPS

Rough sawn, and kiln dried to a maximum moisture content of 19%, this material measures 7/8" x 3" and wider through 3" x 3" and wider. Saps are

primarily used in resaw and remanufacturing operations to produce items for joinery, moulding, millwork, furniture, paneling, and drop siding.



Pictured: 1"x4" (25mm x 100mm) Saps
Length: 10' (3.048m)

NOTE: Prior to shipment, the buyer and seller will determine what constitutes a complete grade description of this material.

PRIME

Rough sawn and kiln dried to a maximum moisture content of 19%, this material measures 1½" x 4" and wider through 4" x 4" and wider. Prime material can be remanufactured

into thicker sizes, similar to dimension. It may be suitable for structural uses, such as exposed rafters. It is also ideal for furniture, flooring, and joinery applications.



Pictured: 3"x8" (75mm x 200mm) Prime
Length: 10' (3.048m)

NOTE: Prior to shipment, the buyer and seller will determine what constitutes a complete grade description of this material.

MERCHANTABLE TIMBERS

This material is suitable for remanufacturing operations requiring finished material of large sizes.

According to the SPIB Export Grading Rules, this rough-sawn material measures 6" x 6" and larger.

These timbers must be dense grain, and permit certain characteristics, including:

- No splits, holes, or unsound wood
- Large surfaces checks



Pictured: 3"x8" (75mm x 200mm) Prime
Length: 10' (3.048m)

NOTE: Available sizes of Southern Pine timbers marketed as "merchantable" vary widely, often smaller than the 6" x 6" size specified in the *SPIB Export Grading Rules*. This discrepancy is usually the result of standard and accepted lumber production practices intended to achieve maximum recovery from the timber resource.

MOULDING STOCK

This high-quality grade is recommended for remanufacturing into specialty products, including mouldings, millwork items and furniture. Moulding stock is material suitable for ripping into strips 1" (25mm) and wider, 10' (3,048m) and longer. It is graded from the poorest face. Typically, this grade is produced in random widths ranging from 6" (150mm) through 12" (300mm); thicknesses range from 4/4 (1" or 25mm) through 8/4 (2" or 50mm). Typically, this material is surfaced two sides (S2S), and kiln dried to a maximum moisture content of 12%.

NOTE: Cutting lines shown on these samples are representational. These lines serve only as a visual guide to supplement the explanation of how this grade of material may be used. Typically, rips are made before crosscuts.

Pictured:

2x6 (38mm x 140mm)
2x8 (38mm x 190mm)
2x10 (38mm x 250mm)
2x12 (38mm x 300mm)
Moulding Shop Grade
Length: 16' (4.88m)



No. 1

SHOP GRADE

This high-quality grade is recommended for remanufacturing into specialty products, including mouldings, window and door components, as well as furniture. This grade is produced in random widths ranging from 6" (150mm) through 12" (300mm); thicknesses range from 4/4 (1" or 25mm) through 8/4 (2" or 50mm). It is graded from the poorest face. Typically, this material is surfaced two sides (S2S), and kiln dried to a maximum moisture content of 12%.

NOTE: Cutting lines shown on these samples are representational. These lines serve only as a visual guide to supplement the explanation of how this grade of material may be used. Typically, rips are made before crosscuts.

Pictured:

2x6 (38mm x 140mm)
2x8 (38mm x 190mm)
2x10 (38mm x 250mm)
2x12 (38mm x 300mm)
No.1 Shop Grade
Length: 16' (4.88m)



No. 2

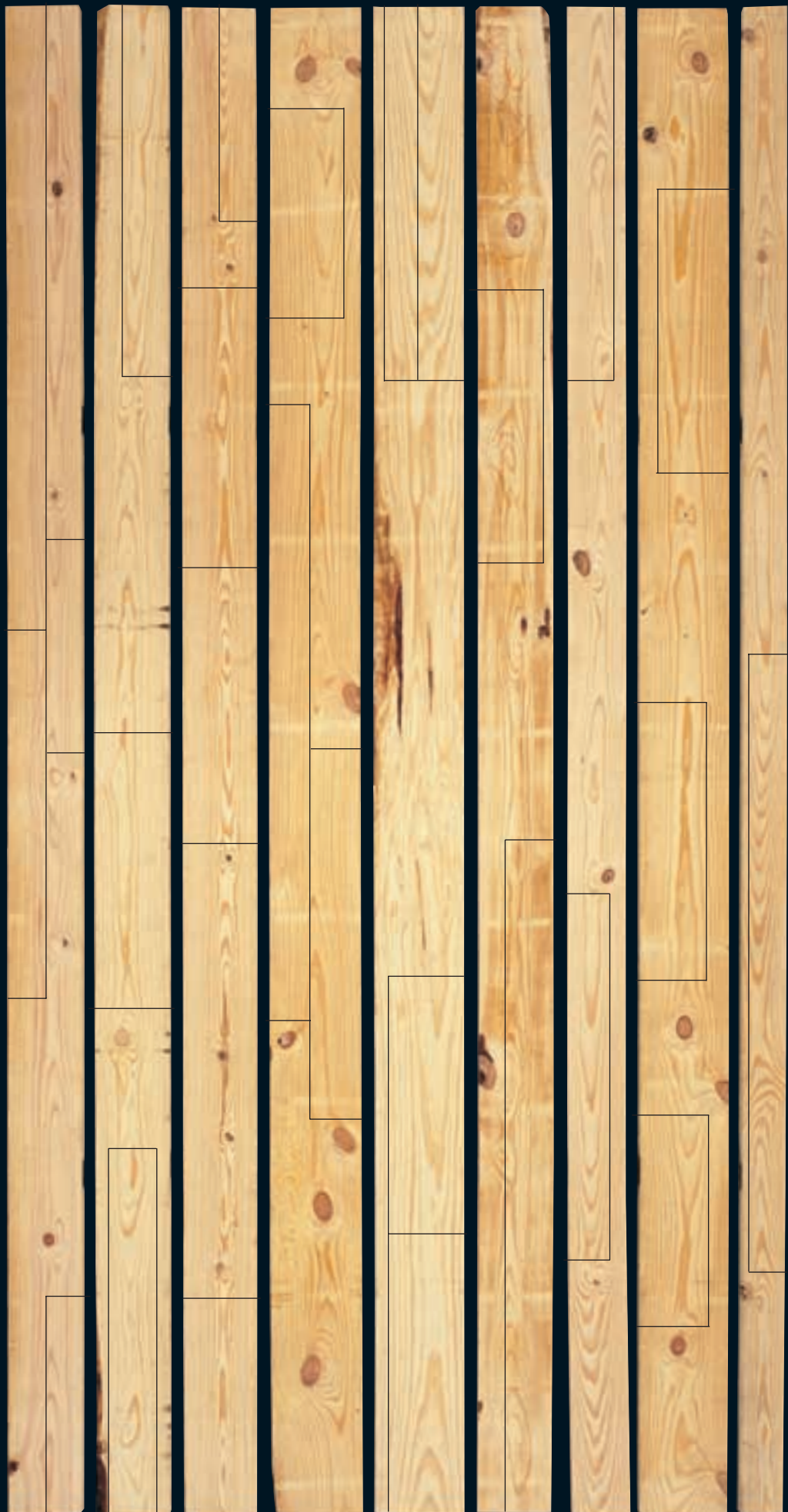
SHOP GRADE

This grade is recommended for remanufacturing into specialty products, including millwork items, furniture, plus window and door components. This grade is produced in random widths ranging from 6" (150mm) through 12" (300mm); thicknesses range from 4/4 (1" or 25mm) through 8/4 (2" or 50mm). It is graded from the poorest face. Typically, this material is surfaced two sides (S2S), and kiln dried to a maximum moisture content of 12%.

NOTE: Cutting lines shown on these samples are representational. These lines serve only as a visual guide to supplement the explanation of how this grade of material may be used. Typically, rips are made before crosscuts.

Pictured:

2x6 (38mm x 140mm)
2x8 (38mm x 190mm)
2x10 (38mm x 250mm)
2x12 (38mm x 300mm)
No.2 Shop Grade
Length: 16' (4.88m)



RADIUS EDGE DECKING - R.E.D.

This material is available in two grades. PREMIUM and STANDARD; PREMIUM grade offers higher appearance characteristics. This material features a rounded surface on all four edges; the rounding is on a radius of 1/4" or 6.35mm. In all widths, the dressed thickness is 1" or

25mm. Typically, this product is pressure treated with a waterborne preservative for outdoor deck surfaces, as well as for planters, benches and steps. The product designation "R.E.D." is included within the certified lumber grade mark.

PREMIUM GRADE



STANDARD GRADE



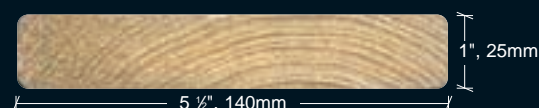
Pictured: 5/4x6" (25mm x 140mm) Radius Edge Decking - R.E.D. Length: 10' (3.048m) Pressure treated with a waterborne preservative. Premium Grade (left); Standard Grade (right)

NOTE: This product is graded according to SPIB's Special Product Rules for Radius Edge Decking, 1986 Edition.

TYPICAL R.E.D. CERTIFIED GRADE MARKS



END PROFILE



V-GROOVE PATTERN

DROP SIDING, PANELING

This high-quality material is recommended for exterior drop siding or interior paneling applications. Adjacent pieces of this pattern form a distinctive "V" joint. Typically produced in a nominal width of 6" (150mm), available lengths range from 8' (2.44m) to 16' (4.88m). Dressed thickness will vary by manufacturer; 3/4" (19mm) and 5/8" (16mm) are the most common.

This product is generally noted for its high-quality appearance. A grade of C&Btr is most commonly specified. This is a clear grade, but a limited number of surface checks and small tight knots are permitted. This grade is excellent for painting or a natural finish.

D GRADE

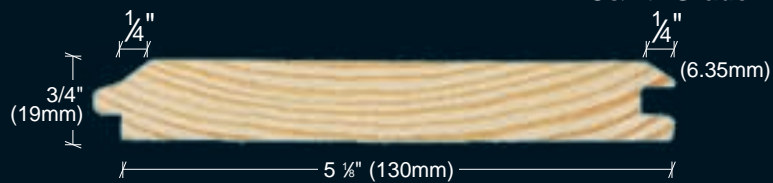
This is a good-quality grade containing some small knots and checks. It is suitable for a painted or natural finish.

No. 2 GRADE

This grade contains more numerous and larger tight knots. It is suitable for less demanding, general-purpose uses.



Pictured:
1x6 (19mm x 150mm) V-Groove,
C&Btr Grade



DOUBLE-BEADED PATTERN

DB CEILING

This high-quality material is recommended for interior paneling applications, typically for ceilings and wainscoting. Surfaces using this pattern are highlighted by the distinctive raised double bead. Typically produced in a nominal width of 4" (100mm), available lengths range from 8' (2.44m) to 16' (4.88m). Dressed thickness will vary by manufacturer; 3/4" (19mm) and 5/8" (16mm) are the most common.

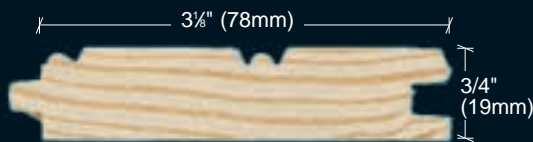
A grade of C&Btr is noted for its high-quality appearance, and is most commonly specified. This is a clear grade, but a limited number of surface checks and small tight knots are permitted. This grade is excellent for painting or a natural finish.

D GRADE

This is a good-quality grade containing some small knots and checks. It is suitable for a painted or natural finish.

No.2 GRADE

This grade contains more numerous and larger tight knots. It is suitable for less demanding, general-purpose uses.



*Pictured: 1x4 (19mm x 100mm)
DB Ceiling,
C&Btr Grade*



FLOORING

This high-quality material is recommended for interior flooring applications. Nominal standard widths range from 2" (50mm) to 6" (150mm). Wider widths are also manufactured. Available lengths range from 8' (2.44m) to 16' (4.88m). Dressed thickness will vary by manufacturer; 3/4" (19mm) and 1" (25mm) are the most common. Material specified as 1" has an actual thickness of 3/4"; material specified as 5/4 has an actual thickness of 1". If not otherwise specified, this material will have tongue-and-groove (T&G) edges and plain ends.

During manufacture, the position of the log relative to the saw cut determines the wood grain's orientation. Flat grain Southern Pine flooring is more widely available. Vertical or edge grain flooring features a harder wearing surface than flat grain material, and may be desirable in high-traffic applications.

C&BTR GRADE

This grade is the most commonly specified for optimum appearance and satisfies requirements for a high-quality finish. Flooring grades are based upon appearance criteria, limiting defects such as tight knots, splits, or wane.

No. 2 GRADE

This grade requires a face as good as No.2 Boards. This grade of flooring features high utility value where appearance is less important.

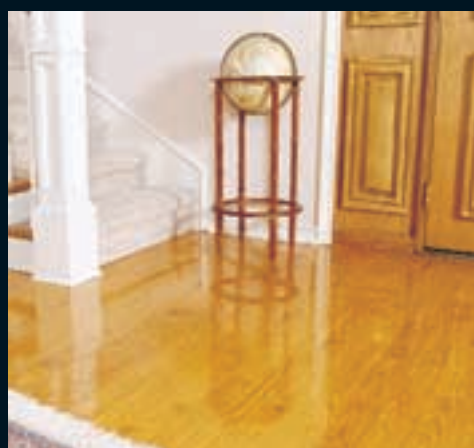
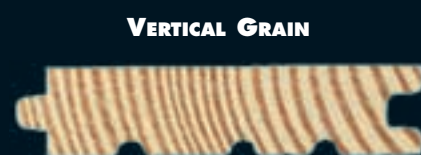
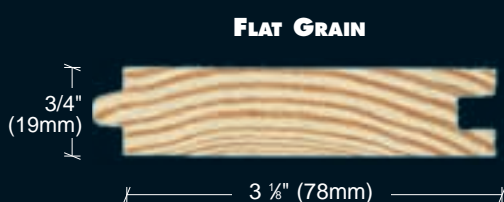
Pictured:
1x6 (19mm x 150mm)
T&G No.2 Flooring

NOTE: Detailed information about Southern Pine flooring – product selection, installation and maintenance – is provided in the booklet "A Guide to Southern Pine Flooring" available from the Southern Pine Council. To obtain a copy, refer to page 21.

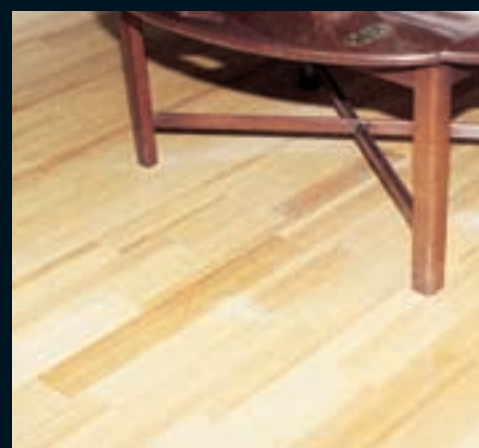


Pictured:
(Above)
1x4 (19mm x 100mm)
C&Btr T&G Flooring,
Vertical Grain

(Left)
1x4 (19mm x 100mm)
C&Btr T&G Flooring,
Flat Grain



1x4 (19mm x 100mm)
C&Btr T&G Flooring,
Flat Grain



1x4 (19mm x 100mm)
C&Btr T&G Flooring,
Vertical Grain



BOARDS

According to SPIB Grading Rules, Boards are classified as material measuring 1" to 1-1/2" thick, 2" and wider. This S4S material is available in a wide range of sizes and grades, meeting most any requirement for utility, economy, and appearance. Uses include shelving, packaging and form lumber. Boards may also be remanufactured into a variety of patterns.

Dressed thickness will vary by manufacturer; 3/4" (19mm) and 1" (25mm) are the most common. Material specified as 1" has an actual thickness of 3/4"; material specified as 5/4 has an actual thickness of 1". Nominal standard widths range from 2" (50mm) to 12" (305mm). Available lengths range from 8' (2.44m) to 16' (4.88m).

No. 1 GRADE

This material features superior appearance characteristics: generally few sound, tight knots and suitable for a high-quality finish.

Pictured: No.1 1x6 (19mm x 150mm) Boards

No. 2 GRADE

This good-quality material is suitable for general purpose uses including sheathing, fencing, packaging, and shelving.

Pictured:
No.2 1x6 (19mm x 150mm) Boards

ADDITIONAL INFORMATION

Publications from the Southern Pine Council offer helpful information for importers, designers, specifiers, and users of wood products. Consult the following booklets:

- **Southern Pine Lumber: An Importer's Reference Guide**
Forest resources, manufacturing, product descriptions (16 pages)
Editions: English, Spanish, Japanese, French, German, Italian, Korean
- **Pressure-Treated Southern Pine**
Preservative retentions, standards, proper use and handling (16 pages)
Editions: English, Spanish, Japanese
- **A Guide to Southern Pine Flooring**
Product selection, proper installation, finishing and maintenance (20 pages)
Editions: English, Spanish, Japanese

REINSPECTION AVAILABILITY

In the absence of a special agreement between buyer and seller, the SPIB Standard Grading Rules for Southern Pine Lumber provide that the purchase, sale or shipment of lumber designated by grades described in the SPIB grading rules must be construed as involving an agreement to abide by all applicable provisions of the rules, including submission to inspection of any lumber complaint as to size, grade, or tally. For complete reinspection information, contact:

Southern Pine Inspection Bureau
4709 Scenic Highway
Pensacola, FL 32504-9094 USA
Tel: 850/434-2611
FAX: 850/443-5594
www.spib.org
e-mail: spib@spib.org

Timber Products Inspection, Inc.
P.O. Box 919
Conyers, GA 30207 USA
Tel: 770/922-8000
FAX: 770/922-1290
www.tpinspection.com
e-mail: tpinsp@mindspring.com

Renewable Resource Associates, Inc.
3091 Chaparral Place
Lithonia, GA 30038
Tel: 770/482-9385
FAX: 770/484-2541
e-mail: rra.inc@mindspring.com

➤ International Buyer's Guide

Listings of SPC member mills, products manufactured and sales managers (24 pages)

Editions: English, Spanish, Japanese

A single copy of each booklet is free upon request; please specify desired language. Direct all inquiries to:

Southern Pine Council
P.O. Box 641700
Kenner, LA 70064 USA
www.southernpine.com



Southern Pine is a preferred lumber species for structural framing and engineered components.



Southern Pine can be remanufactured into a wide variety of patterns for millwork and joinery.



The Southern Pine Council (SPC) is a nonprofit organization supported by the producing members of the Southern Forest Products Association and the Southeastern Lumber Manufacturers Association.

One objective of SPC's International Program is dedicated to increasing the volumes of Southern Pine products available to world markets.

Activities within the program include market development, trade advertising, plus distribution of multi-lingual promotional and technical publications.

Southern Forest Products Association

P.O. Box 641700
Kenner, LA 70064 USA
Tel: 504/443-4464
FAX: 504/443-6612

Southeastern Lumber Manufacturers Association

P.O. Box 1788
Forest Park, GA 30298 USA
Tel: 404/361-1445
FAX: 404/361-5963

www.southernpine.com

SPC AROUND THE GLOBE

The Southern Pine Council maintains offices outside the United States to assist lumber buyers and specifiers.

In the United Kingdom:

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Southern Pine Council
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Bucks, HP13 6RU ENGLAND
Tel: 44-1494-451000
FAX: 44-1494-451100
e-mail: americansoftwoods@compuserve.com

In Spain:

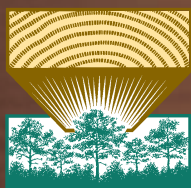
Ignacio Martinez
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Tel/FAX: (34-91) 351-1449
e-mail: americansoftwoods@jpcnet.com

In Mexico:

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Southern Pine Council
Apartado Postal 459
Xalapa, Veracruz, 91000 MEXICO
Tel: (52) 228-816-4780
Tel/FAX: (52) 228-816-3850
e-mail: mecma_sa@terra.com.mx

In Japan:

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Southern Pine Council
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Minatoku, Tokyo 107 JAPAN
Tel: (31) 33589-1320
FAX: (31) 33589-1320
(31) 33505-6710
e-mail: daisaku-aoki@gol.com



**SOUTHERN
PINE**
COUNCIL

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