

CEDARONE™
Natural By Design

Ultimate Decks



 Weyerhaeuser

CEDARONE Ultimate Decks

A deck extends the living area of a home to provide an outdoor gathering place for family and friends. Deck designs and materials carry the pride of home ownership to these outdoor spaces to compliment the home and blend with the surrounding environment.

CEDARONE is Natural by Design. Its many qualities including beauty, durability and dimensional stability are natural characteristics of this unique material.



CEDARONE Decks make the ultimate statement of beauty and quality.



*CEDARONE
Decks
add quality
and prestige
to any home.*

*Beautiful and durable,
CEDARONE Decks
create extended living
spaces for relaxing and
entertaining with
family and friends.*



CEDARONE Brand Differentiation

Weyerhaeuser's CEDARONE products are the finest Quality Cedar products available. Each CEDARONE product is designed to meet the appearance and service expectations of the end use intended. Only CEDARONE offers total product and quality management from the forest to the market.

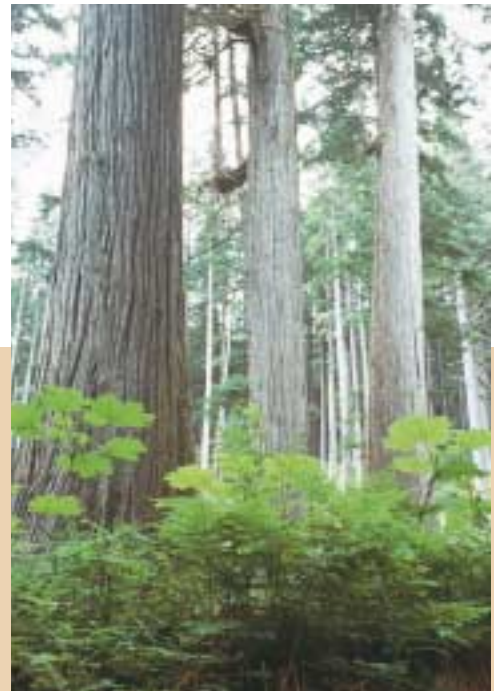
Weyerhaeuser is committed to sustainable forest management and product certification under the ISO and CSA national Sustainable Forest Management System Standard.

Weyerhaeuser and its appointed agents and distributors offer CEDARONE products to customers throughout the world. No matter where you are, you can be assured of the same CEDARONE quality.

Customer Service is an important part of the CEDARONE Total Quality Management commitment. Each agency and distribution center is staffed with CEDARONE experts to assist with questions on product specification, installation and finishing. All of Weyerhaeuser's North American distribution centers are members of the Western Red Cedar Lumber Association's Certified Cedar Distributor program.

CEDARONE's Total Quality Management commitment from the Forest to the Market makes the difference.

Weyerhaeuser manages the World's largest Cedar resource insuring a consistent supply of quality raw material for CEDARONE products.



CEDARONE manufacturing plants are operated with a commitment to Total Quality Management to insure that you consistently receive the same high standard of CEDARONE products with every order.



Natural Qualities Make CEDARONE Decking the Ultimate Choice



CEDARONE's appeal goes beyond its good looks. Its naturally decay resistant qualities and its dimensional stability contribute to years of enjoyment.



The ultimate decks are built with CEDARONE Decking products. Their rich and appealing natural coloring combined with the famed natural durability and dimensional stability of Western Red Cedar puts CEDARONE Decks at the peak of prestige and quality. The beauty of CEDARONE Decking makes it one of the most desired products for quality decks. The renowned durability is created naturally by decay resistant thujaplicins and phenolics so CEDARONE Decking is free of harmful preservative chemicals. As North America's most stable softwood, CEDARONE Decking lays flat, stays straight and resists splinters and cracking, making it an ideal walking surface, even in bare feet. As the lightest softwood, it has superior thermal properties that make it cooler under foot on those hot summer days.

The versatile range of CEDARONE product standards and sizes allow designs to compliment any building style. The virtually knot free appearance of Premium Clear CEDARONE Decking has an elegant appeal that is associated with fine woodwork. A more relaxed atmosphere is created with CEDARONE Premium Knotty Decking. CEDARONE Decking products are available in 4", 6", 8", 10" and 12" widths, 5/4 and 2" thicknesses with a choice of eased or radius edges. All CEDARONE Decking products are surfaced to exacting standards that enhance both appearance and function.

CEDARONE Deck accessories bring a CEDARONE Deck alive with fashion and style. 2x2 balusters add a fine line detail in either clear or knotty products. CEDARONE Handrails in a profiled 2x4 top cap or a keyhole-patterned 2x6 add the right finishing touch.



CEDARONE'S renowned durability is produced by safe, natural grown-in preservatives so CEDARONE Decking is free of harmful preservative chemicals.

CEDARONE Decking Adds Beauty to any Setting



The distinctive mellow ambers, reddish cinnamons and rich sienna brown that forms the coloring of CEDARONE Decking create a beautiful outdoor living space.



CEDARONE Decking is an excellent base for a wide range of coatings that enhance its natural appearance and provide it with protection from the elements.

CEDARONE Decks Combine Form and Function



Creative patterns and a little planning can lower the cost of a deck by using shorter lengths of CEDARONE Decking.



CEDARONE Decks create functional extended living spaces from areas that are unsuitable in their natural state. CEDARONE Balusters add the perfect finishing touch to CEDARONE Decks.

CEDARONE Decking Product Specifications

Size: CEDARONE Decking and accessories are specified by their nominal size. The actual finished sizes are less than the nominal size.

Moisture Content: CEDARONE Decking is produced unseasoned (green).

CEDARONE Decking Product Line

Nominal Thickness (inches)	Finished Thickness (inches)	Nominal Width (inches)	Finished Width (inches)	Edge Profile	Product Standards
5/4	1-1/32	4 6	3-9/16 5-9/16	Radius	Premium Clear Premium Knotty
2	1-9/16	4 6 8 10 12	3-9/16 5-9/16 7-3/8 9-3/8 11-3/8	Eased	Premium Clear Performance Clear Premium Knotty Performance Knotty
2	1-3/8	6	5-3/8	Radius	Premium Clear Premium Knotty Profile Deck

Premium Knotty Decking Options

CEDARONE Premium Knotty Decking is available in three product options.

CEDARONE Premium Knotty 2 face Decking is fully useable from either side with the appearance and service characteristics of Premium Knotty on both faces.

CEDARONE Premium Knotty 1 face Decking offers a more cost effective alternative by having the Premium Knotty appearance on one face only.

CEDARONE Premium Knotty Profile Decking combines the product features of Premium Knotty decking with a radius edge profile pattern.

CEDARONE Decks Create Functional Spaces for Entertainment and Relaxation



CEDARONE creates inviting spaces for relaxation and entertainment



CEDARONE Decks form the ideal base for outdoor hospitality. CEDARONE Decking is the perfect compliment to CEDARONE Siding and Trim.

CEDARONE Handrail Product Line

Nominal Thickness (inches)	Finished Thickness (inches)	Nominal Width (inches)	Finished Width (inches)	Pattern	Moisture Content	Product Standards
2	1-1/2	4	3-1/2	Top Cap	Green	Premium Clear Premium Knotty
2	1-1/2	6	5-1/2	Keyhole	Green	Premium Clear Premium Knotty

CEDARONE Balustration Product Line

Nominal Thickness (inches)	Finished Thickness (inches)	Nominal Width (inches)	Finished Width (inches)	Edge Profile	Product Standards
2	1-1/2	2	1-1/2	Eased	Premium Clear
2	1-1/2	2	1-1/2	Eased	Premium Knotty

CEDARONE Coverage Table

Linear footage required to cover 100 square feet of deck

Nominal Width	Linear Feet
4	325
6	211



CEDARONE Decking Product Standards

Premium Clear

The ultimate CEDARONE Decking product. Premium Clear decking is the image of sophistication and elegance. It is manufactured to the highest standards of appearance and machining from material that is virtually free of natural characteristics. CEDARONE Premium Clear Decking is the right choice for luxury and custom residences that require materials of uncompromising quality. Due to the high standards required for these products, the length specifications are typically shorter than those of the knotty grades. Meets or exceeds WRCLA Architect Clear product standard.



Premium Knotty

CEDARONE Premium Knotty Decking is manufactured to meet the most demanding expectations of buyers wanting the rustic charm of knotty decking. The knots are sound, tight and limited in size. Other natural characteristics are limited so as to not detract from long-term serviceability. Manufacturing standards insure smooth surfacing while the natural characteristics of Cedar deliver durability, dimensional stability and excellent finishing attributes. Meets or exceeds WRCLA Architect Knotty product standard.



Performance Clear

CEDARONE Performance Clear Decking is manufactured to more economically deliver the appearance of clear decking by allowing slightly larger and more numerous natural and manufacturing characteristics.

Two product options are offered to meet the requirements of specific building situations. For decks that are at or near ground level and seen from the top face only, there is CEDARONE Performance Clear 1 face Decking. This cost effective option delivers the desired clear appearance on one face while allowing other characteristics on the hidden reverse face.

In cases such as second storey decks where the bottom side of the deck is in view, CEDARONE Performance Clear 2 face Decking is available. This option has the Performance Clear appearance on both faces. Meets or exceeds WRCLA Custom Clear product standard.



Performance Knotty Decking

CEDARONE Performance Knotty Decking is manufactured for the budget-minded homeowner or builder that wants the beauty and performance of Cedar at an economical price. Performance Knotty decking is produced to the high manufacturing standards required for decking from hole-free knotty material that contains larger and more numerous natural and manufacturing characteristics. Meets or exceeds WRCLA Custom Knotty product standard.



CEDARONE Balustration and Handrail Standards

Premium Clear

CEDARONE Premium Clear Balusters and Handrails are the natural choice to complete a decking project that requires beauty, durability and the highest manufacturing standards. Premium Clear balusters and handrails are produced from materials with highly limited natural characteristics to create a product of uncompromising appearance and quality.



Premium Knotty

CEDARONE Premium Knotty Balusters and Handrails are produced from materials that have sound and tight knots and other natural characteristics that do not detract from their fine knotty appearance. High manufacturing standards are maintained to insure that the product is accepted in any project where the relaxed and informal appearance of knotty balustration and handrail is desired.



Fastener Selection

Deck boards must be fastened securely at each joist using nails, screws or a manufactured product to blind fasten the boards. Care must be taken to select a fastener that will not corrode or react with the Cedar. Stainless Steel, double hot-dipped galvanized or aluminum are recommended fastener materials. Electro-plated fasteners do not provide sufficient protection to prevent corrosion or iron stains. Other available coatings should be selected only when experience has shown that the coating will not breakdown when exposed to cleaning solutions creating stains in future years.

Stainless steel is the best choice. A 304 grade is suitable for most applications. Select a 316 grade stainless for decks with seacoast exposures. Double hot-dipped galvanized fasteners are the most widely available and cost-effective choice.

Fastener Size Table

Nominal Thickness (inches)	Finished Thickness (inches)	Nail Size	Screw Size
5/4	1-1/32	2-1/2 (8d)	2
2	1-3/8	2-3/4 (9d)	2-1/4
2	1-9/16	3 (10d)	2-1/2

Blind fastening systems secure the deck boards from below leaving the deck surface free of fasteners. Follow the manufacturer's installation instructions.

Fastener Placement

It is recommended that CEDARONE Deck Boards be installed with two fasteners at each joist.

Decking Installation and Maintenance Suggestions

Use a 3" (10d) nail as a spacer to insure that the deck boards have a sufficient gap to permit drainage of water from the surface of the deck.

In a moist climate consider joining the deck boards between strategically positioned double joists. Leave a 1/8" gap between the ends of the boards to allow drainage and cleaning of any debris build up.

Move deck accessories, benches and tables from time to time to allow the deck surface to dry under the contact area.

Recommended Spans for CEDARONE Decking

Thickness (inches)	Width (inches)	Product Standards	Span (inches)
5/4	4	Premium Clear	16
5/4	4	Premium Knotty	12
5/4	6	All Standards	16
2	6 (net 1-3/8)	All Standards	24
2	4 to 12 (net 1-9/16)	All Standards	24

Western Red Cedar Characteristics

Western Red Cedar (*Thuja Plicata*) is renowned for its natural beauty and outstanding physical properties that make it one of the world's most unique softwood species. This exceptionally beautiful wood has natural coloring in mellow ambers, reddish cinnamons and rich sienna browns. Its warm coloring is complimented by a uniform, fine-grained texture with a satin lustre.

Western Red Cedar formed an integral part of the spiritual and practical life of the Northwest Coast Indians. The tree was used for constructing the walls and roofs of lodges, totem poles, canoes and utensils while the bark was used for weaving baskets, mats, rope and clothing. The hallmark characteristic of Western Red Cedar, its natural durability, has preserved examples of this lifestyle for more than 100 years.

Weyerhaeuser's CEDARONE brand products are manufactured from the finest Western Red Cedar fiber available. Because CEDARONE materials are harvested from forest regions with similar growth characteristics, CEDARONE buyers are assured of uniform characteristics from this renowned softwood species. The manufacturing of this special resource is carefully undertaken in Weyerhaeuser manufacturing facilities to the exacting standards that are established for every CEDARONE product.

Growth and Harvest Regions

Western Red Cedar grows on the western edge of the coastal mountains from southern Alaska to northern California. The principal supplying region is the coastal forest region of British Columbia. Cedar typically grows in mixed forests with other species such as Douglas Fir, Pacific Coast Hemlock, Balsam Fir and Sitka Spruce. CEDARONE forestry practices are guided by the internationally recognized sustainable forest management system elements of ISO 14001 as part of the CSA Z809 Canadian national standard. These high standards of sustainable forestry are audited by third party inspection agencies to insure compliance with the certification standards. Forest management plans control harvest levels and require reforestation to enhance natural regeneration and insure regional biodiversity.

Natural Durability

Western Red Cedar is one of the few wood species that are naturally at home in the outdoors. It is classified as a durable wood by the building codes across North America, which permits the use of its heartwood in exterior applications without preservative treatments. The heartwood contains extractives that are toxic to decay causing fungi. The two principal extractives that are responsible for the decay resistance are Thujaplicans and water soluble phenolics. The tree's ability to produce these extractives increases with age making the outer regions of heartwood the most durable. CEDARONE is produced from mature coastal Cedar that is rich in decay resistant extractives.

Dimensional Stability

Dimensional Stability is essential for a wood product to maintain its shape during its service life. This is especially true of products that are subjected to the climatic changes of exterior applications. Western Red Cedar has twice the stability of most commonly available conifers. The stability is a result of its low density and shrinkage factors. As a result, CEDARONE products shrink and swell minimally with changes in moisture. This superior resistance to warping, cupping and twisting makes them the best choice for use as sidings, decking, fencing and outdoor garden landscaping.

Density

At 22 lbs/ft³ at 6% moisture content, Western Red Cedar is one of the lightest softwoods available. Its specific gravity is a low 0.33. The light weight is the result of a larger percentage of lower density early wood and less high density late wood within the annual growth rings. The lower density cells have air spaces that positively influence the insulating properties of the wood.

Species	Density (Lbs/ft ³)
Western Red Cedar	22
Douglas Fir	31
Ponderosa Pine	27
Southern Pine	34

Thermal Insulating Properties

Western Red Cedar is an excellent thermal insulator. The low density and presence of air spaces make it the best insulator of any available softwood. Its thermal conductivity factor K is 0.74 BTU in / ft² h F and its R-value is 1.35 per inch of thickness. These exceptional thermal insulating properties protect a building from the extremes of heat and cold. CEDARONE Sidings provide far superior thermal protection to alternatives such as concrete, brick and stone.

Acoustic Properties

The open cell structure of Western Red Cedar has demonstrated an ability to absorb and dissipate sound energy. The cell structure converts the sound energy into heat by friction and viscoelastic resistance. The use of CEDARONE for walls and ceilings provides a level of sound insulation that will quieten rooms.

Flame Spread and Smoke Development Ratings

Western Red Cedar has flame spread and smoke development classifications that are superior to the minimums set by the building codes. These ratings permit CEDARONE to be used in many interior applications without treatment. The surface burning characteristics are used to regulate and control the rate of flame spread in case of fire. Lower ratings indicate more resistance to the spread of fire. The rating for Western Red Cedar has a class II rating of 69. This compares to Canadian and American code requirements of 150 and 200 respectively. The smoke development classification for Western Red Cedar is 98 which is less than the code specifications of 300 and 450 for Canada and the US respectively.

Termite Resistance

The death rate of termites consuming Western Red Cedar varies with fiber source and the species of termites from 100% in several days to 40% in several weeks. Termites prefer food sources other than Western Red Cedar, however in the absence of alternative food sources, some termites will attack Western Red Cedar. It is best to consult local experts on their experience with Cedar's resistance to the specie of termite that inhabits the region. In the absence of local knowledge it is recommended that preventative treatments be made to insure consistent resistance to attack in areas that are prone termite attacks.

Workability

Western Red Cedar has a fine, straight grain and uniform texture that make it easy to cut, saw and nail with common tools. These features also contribute to its ability to be planed to a smooth surface or profiled to any pattern. Cedar is highly resistant to splitting caused by fasteners. It is suggested that screws be lengthened approximately 1/3 when specified for use with Cedar. Cedar's freedom from pitch and resin make it an excellent base for all types of paints and stains.

Gluing Properties

The lack of pitch and resin allows Western Red Cedar to hold glue bonds from a wide range of adhesives. Finger-jointed CEDARONE Siding is an excellent example of the application of this feature to create a highly desirable product.

Extractive Bleeding

Western Red Cedar contains water soluble extractives that contribute to its color, durability and smell. The presence of moisture on exterior surfaces can bring these extractives to the surface and leave a reddish brown stain after the water has evaporated. The stains can be removed with detergent and water when they are first on the surface however they can be more difficult to remove after exposure to the sun. controlling the extractive bleeding process is a matter of moisture control. When primers are required prior to the application of a solid color coating, an alkyd oil primer is recommended because of its superior ability to block out moisture. This will limit the potential for extractive stains to appear on the coated surface. Removal of mature extractive bleeding stains is accomplished with an oxalic acid solution. Oxalic acid is available at most paint and hardware stores.

Iron Stains

The extractives in Cedar are also prone to staining when they are in contact with iron. The most common source of iron is the fasteners. The stain is a reaction to the water soluble polyphenols resulting in a blue-black blot or streak that follows the moisture pattern in the area of the iron source. Care must be taken not to use wire brushes to clean Cedar or to allow iron filings from other work projects to come into contact with Cedar. The use of common steel or electroplated fasteners will lead to staining. The solution to iron staining is to select fasteners made from stainless steel, aluminum or double hot dipped galvanized steel. Stainless steel fasteners are best and recommended for deck and siding applications where the fasteners are highly visible.

Finishing CEDARONE Decks

It is recommended that the surface of a deck be coated with a suitable finish to maintain its natural beauty and protect the surface from the harmful effects of direct exposure to sun, moisture and pollutants.

The selected finish should be formulated to withstand the abrasive effects of foot traffic on decks. It is recommended that the coating contain a water repellent and a mildewcide/fungicide. A form of Ultra-Violet (UV) protection should be included if a natural appearance is desired.

The basic deck coating is a water repellent preservative. These products protect the deck from moisture and provide a measure of added protection from decay causing fungi. These coatings are not formulated to provide protection from the weathering effects of sunlight. The expected service life is a maximum of one year. The product weathers from the surface with time and recoating requires only cleaning and reapplication.

Experience has shown that the best results are achieved from a penetrating oil-based transparent or semi-transparent deck stains. These products contain the water repellent, mildewcide, fungicide and UV protection to give the appearance and service results that are most commonly sought by consumers.

Transparent stains are available in a range of color tones that enhance the natural coloring of the deck. UV protection is achieved by pigments that act to reflect or block sunlight from contacting the surface of the deck. Service life is one to two seasons, depending on the climate and exposure. The product weathers from the surface with time and recoating requires only cleaning and reapplication.

Semi-transparent deck stains contain more pigments and have a wider color selection than the transparent stains. The greater pigment content provides additional weathering protection for the deck. The service life is two to three seasons depending on climate and exposure. Recoating requires that the less weathered stain be cleaned from the surface in order to have a uniform appearance after recoating.

Film forming finishes such as varnish, clear coatings, paints and solid colored stains are NOT RECOMMENDED. The frequent presence of moisture causes these coatings to crack and peel. Recoating requires extensive preparation to blend in areas of failed coatings with the balance of the deck surface.

Non-drying oil finishes are NOT RECOMMENDED. They are messy underfoot and are tracked into the home causing damage to interior floor coverings.



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For more information on CEDARONE global distribution, products and services call 1-866-233-2766 or visit our website at www.CEDARONE.com

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