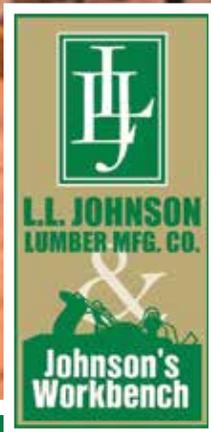


2016 DECKING GUIDE

EVERYTHING FOR
THE DECK BUILDER



LL JOHNSON LUMBER MFG CO & JOHNSON'S WORKBENCH
800-292-5937 / theworkbench.com

THE GREENER DECKING SOLUTION

Naturally Durable Solid Wood

A recent ISO certified study* pointed to solid wood over wood-plastic composite as the better environmental choice in every factor studied. WPCs have substantially higher environmental impacts in comparison to a naturally durable solid wood product.

LL Johnson Lumber Mfg Company and Johnson's Workbench offer outdoor solid wood solutions from domestically sourced Western Red Cedar, Redwood, and thermally modified Yellow Pine from EcoVantage, to imported exotics such as Ipe' and Cumaru.

You'll find our pricing very competitive with WPC and environmentally superior to chemically treated pine and WPC. It is time once again to start considering your outdoor decking, fencing, siding, and furniture projects. Give us a call or stop in, we'll show you the greener choices available.



CALL US TODAY: 800-292-5937

	TERNALLY MODIFIED WOOD	PRESSURE TREATED	REDWOOD / CEDAR	WOOD / PLASTIC COMPOSITES	EXOTIC HARDWOODS
Chemical Free	<input checked="" type="checkbox"/> Chemical Free	<input type="checkbox"/> Chemically treated	<input checked="" type="checkbox"/> Chemical Free	<input checked="" type="checkbox"/> Chemical Free	<input checked="" type="checkbox"/> Chemical Free
Price (material only)	<input checked="" type="checkbox"/> \$2 Cost per 1x6 lineal ft.	<input type="checkbox"/> \$1 Cost per 1x6 lineal ft.	<input checked="" type="checkbox"/> \$1-2 Cost per 1x6 lineal ft.	<input type="checkbox"/> \$2-3 Cost per 1x6 lineal ft.	<input type="checkbox"/> \$3-4 Cost per 1x6 lineal ft.
Durability	<input checked="" type="checkbox"/> Rot/Insect resistant	<input type="checkbox"/> Rot/Insect resistant	<input checked="" type="checkbox"/> Rot/Insect resistant	<input checked="" type="checkbox"/> Rot/Insect resistant	<input checked="" type="checkbox"/> Rot/Insect resistant
Stability	<input checked="" type="checkbox"/> Extremely warp resistant	<input type="checkbox"/> Warp prone	<input checked="" type="checkbox"/> Resists warping	<input type="checkbox"/> Can expand along length	<input type="checkbox"/> Resists warping
Environmental Impact	<input checked="" type="checkbox"/> Low Impact	<input type="checkbox"/> Chemical Impact	<input checked="" type="checkbox"/> Low Impact	<input type="checkbox"/> Medium Impact	<input type="checkbox"/> Sourcing Impact
Maintenance	<input checked="" type="checkbox"/> Seal every 3-5yrs	<input type="checkbox"/> Seal every year	<input checked="" type="checkbox"/> Additional prep work to seal	<input checked="" type="checkbox"/> Clean only as needed	<input checked="" type="checkbox"/> Sealing not necessary
Longevity	<input checked="" type="checkbox"/> 30 year warranty	<input type="checkbox"/> Can last up to 30 years	<input checked="" type="checkbox"/> Can last 20 years	<input type="checkbox"/> Warranties 20yrs or more	<input checked="" type="checkbox"/> Can last 40 years
Sustainability	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Sometimes
Availability	<input type="checkbox"/> Available	<input checked="" type="checkbox"/> Widely Available	<input type="checkbox"/> Sometimes difficult to find.	<input checked="" type="checkbox"/> Widely Available	<input type="checkbox"/> Sometimes difficult to find.

** Pricing is representational only. Costs vary widely depending on lumber dimensions and quality. Lumber costs also are heavily influenced by local market conditions.*

* Report published by Dovetail Partners Inc. on July 28, 2010 covered a Life Cycle Analysis performed by the independent third party FPIInnovations-Forintek Division. See www.dovetailinc.org.

GOOD,
BETTER,
BEST...

WE STACK THE DECK

WITH DECKING OPTIONS TO FIT YOUR BUDGET



- CUMARU
- GARAPA
- IPE'
- MASSARANDUBA
- TIGERWOOD
- THERMALLY MODIFIED PINE
- WESTERN RED CEDAR



PG.4 Brazilian Teak (Cumaru) is known especially for its superior hardness and durability and adapts extremely well in residential or commercial applications. Its color ranges between a tan brown to a reddish brown with some boards displaying black striping. Unlike most exotic hardwoods however, Cumaru's color changes little from its original tone and gradually mutes to a uniform color over time.

PG.4 Brazilian Ash (Garapa) is the rising star in exotic hardwood decking. Garapa is extremely dense and naturally resists rot, decay, splinters and fire without any chemical treatments. Its grain is very fine and tight making the material extremely smooth and scratch resistant. Garapa's warm, golden brown color will last for many years.

PG.6 Brazilian Walnut (Ipé or e-pay) is an extremely dense, tight-grained exotic hardwood. It is naturally resistant to rot and decay measuring the highest rating for insect and decay resistance. Generally a deep rich brown, some pieces of Ipé have red and amber hues, and is guaranteed for 20 years without preservative treatment.

PG.8 Brazilian Redwood (Massaranduba) is another high quality decking material that combines the beauty of real wood with natural durability, strength and easy maintenance. Long considered one of the finest decking materials in South America and Europe.

PG.10 Tigerwood (Goncalo alves) Tigerwood decks feature great resistance to rot and decay, with particular resistances to insects and fungus. Additionally, A Tigerwood Deck Janka hardness rating comes in at 1,850 pounds. Compared to many softwood decking products, Tigerwood hardness is vastly superior.

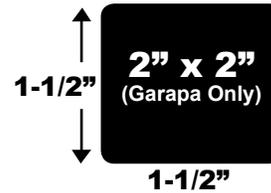
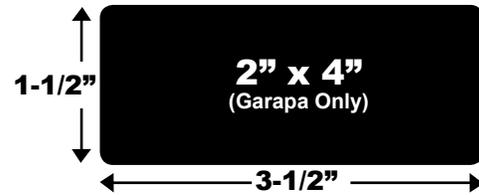
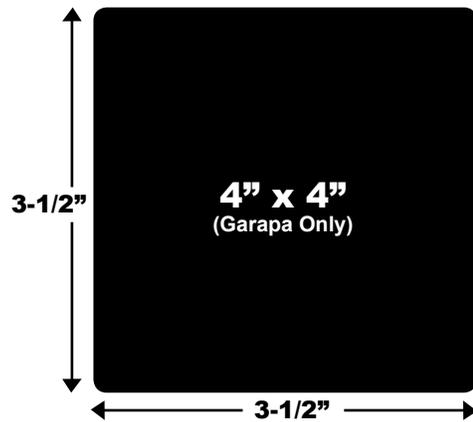
PG.10 Western Red Cedar "knotty" Decking is always a favorite! Light weight and extremely durable, Western Red Cedar will stand-up to anything your climate will bring. It stains well for exterior purposes, machines and seasons naturally to acquire its own unique and weathered patina. Western Red Cedar is the popular choice of traditionalists.

PG.12 Thermally Modified Pine is our rising star in out door decking. PerfikDek begins as #1 southern yellow pine that's treated with heat and steam to completely modify this natural material. This process makes the wood weather and rot resistant for 30 years!

PG.14 Deck Fasteners & Sealants



GARAPA



GARAPA



Handling & Storage of Cumaru & Garapa

Both Cumaru and Garapa are partially air dried and then kiln dried to about 15% moisture content. Acclimate this material to current humidity levels before installation by storing in a cool, dry place, out of direct sunlight.

Installation

Design your deck to stand at least 24" above the ground and be open on at least 3 sides to promote adequate cross ventilation. 1x4 and 5/4 Cumaru and Garapa decking may be installed on 16" o/c. joist systems. 5/4 material also may be installed on 24" o/c.

Installing decks with a diagonal pattern may require narrower joist spacing. When installing, allow a minimum 3/16" space between 4" planks and 1/4" space between 6" planks. This promotes air circulation, allows drainage, and leaves room between the boards for shrinkage and expansion. The average rate of shrinkage is approximately 1/8" on 4" wide boards and 3/16" on 6" wide boards.

Cutting

Carbide-tipped saw blades and drill bits are recommended when cutting. When drilling, bore pilot holes close to the actual screw or nail diameter. If using trim-head screws, it is recommended that you drill a slightly larger hole than the diameter of the screw head so it can countersink itself.

End Sealing

Cumaru and Garapa are end-waxed. Any cuts made on the planks must be immediately resealed with a clear aqueous wax end sealer to help reduce checking. We recommend "Anchorseal" by UC Coatings.

Fastening

Stainless steel fasteners are recommended because of superior corrosion resistance, maximum holding power, and ease of use. Always pre-drill a pilot hole before driving screw fasteners in any application and countersink screw fasteners when face screwing deck boards. There are also various hidden-type under-mount or clip systems that may be used so there are no fasteners showing

on the deck surface. The EB-TY® clip is a great example of a hidden deck fastener. There are various types appropriate for the type and thickness of stock you are using. Make sure to pre-drill and ask us for more information!

Finishing

After finishing your deck, clean the surface and wait at least 2 days to apply a thin coating of high quality penetrating oil-based sealer with UV inhibitors that limit checking and color fading. It is recommended that you test any product chosen on several sample boards to determine compatibility.

We recommend applying a superior quality penetrating oil finish with a UV sun block after completing your deck. U.V. Plus by Messmer's or Penofin's Bronze Label Hardwood Formula finish are excellent products that will keep your wood looking its best. Within 3-6 months, follow up by applying another coat or when your deck looks dry or weathered. These initial applications help saturate the wood fibers, adding protection to preserve your deck and make "maintenance" coats less frequent.

Over time, apply this finish periodically to maintain the natural color. If you prefer, Cumaru and Garapa will weather naturally without any oil to a silver gray patina over a period of time, thereby eliminating any finish maintenance. We do recommend that you at least apply an initial oil finish to your deck after completion and seasoning. Please feel free to call us with any questions.

CUMARU		1-500 LF	500-1000 LF
1x4	3/4x3-1/2	2.11	1.79
1x6	3/4x5 1/2	3.35	2.84
5/4x6	1x5 1/2	4.44	3.77
2x2	1 1/2 x 1 1/2	2.51	2.13
2x4	1 1/2 x 3 1/2	4.93	4.19
2x6	1 1/2 x 5 1/2	8.00	6.79
4x4	3 1/2 x 3 1/2	13.07	11.09
GARAPA		1-500 LF	500-1000 LF
1x6	3/4x5 1/2	3.22	2.73
5/4x6	1x5 1/2	3.70	3.14
5/4x6	1x5 1/2	3.70	3.14
2x2	1 1/2 x 1 1/2	1.73	1.47
2x6	1 1/2 x 5 1/2	6.58	5.59



IPE'

1" x 4"
(Actual Size: 3/4" x 3-1/2")

1" x 4" T&G
(Actual Size: 11/16" x 3")

1" x 6"
(Actual Size: 3/4" x 5-1/2")

1" x 8"
(Actual Size: 3/4" x 7-1/4")

1" x 10"
(Actual Size: 3/4" x 9-1/4")

5/4" x 4"
(Actual Size: 1" x 3-1/2")

5/4" x 6"
(Actual Size: 1" x 5-1/2")

5/4" x 6" PRE-GROOVED
(Actual Size: 1" x 5-1/2")

5/4" x 8"
(Actual Size: 1" x 7-1/4")

5/4" x 12"
(Actual Size: 1" x 11-1/4")

2"x2"
Actual Size:
1-1/2x1-1/2

2" x 4"
(Actual Size:
1-1/2" x 3-1/2")

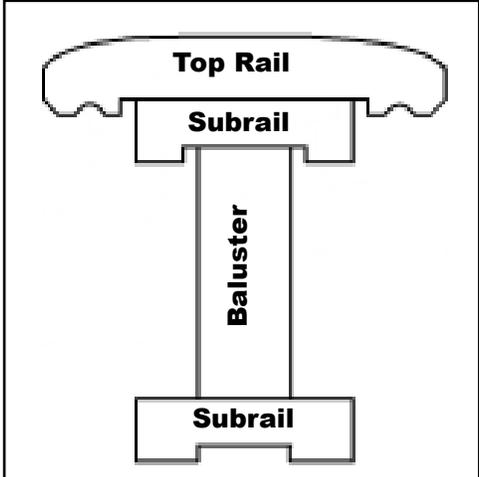
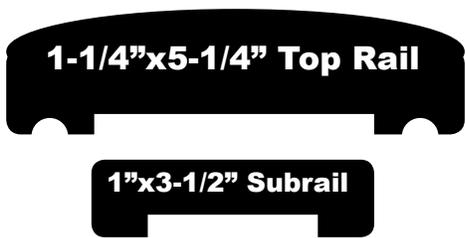
2" x 6"
(Actual Size: 1-1/2" x 5-1/2")

2" x 8"
(Actual Size: 1-1/2" x 7-1/4")

2" x 10"
(Actual Size: 1-1/2" x 9-1/4")

2" x 12"
(Actual Size: 1-1/2" x 11-1/4")

4" x 4"
(Actual Size:
3-1/2" x 3-1/2")



Sample railing parts configuration

IPE'



Handling & Storage of Ipe'

Ipe decking is partially air-dried lumber and is intended for outdoor use only. Acclimate your Ipe to current humidity levels before installation by storing in a cool, dry place, out of direct sunlight.

Installation

Your deck should be designed to stand at least 24" above the ground and be open on at least 3 sides to promote adequate cross ventilation. 1x4 and 5/4 Ipe decking may be installed on 16" o/c joist systems, and 5/4 Ipe also may be installed on 24" o/c. Installing decks with a diagonal pattern may require narrower joist spacing.

It is recommended that there should be a 1/8" gap between deck boards when installed. This promotes air circulation, allows drainage, and leaves room between the boards for shrinkage and expansion. The average rate of shrinkage is approximately 1/16" on 4" wide boards and 1/8" on 6" wide boards.

Cutting

Carbide-tipped saw blades and drill bits are recommended when cutting Ipe decking boards. When drilling, bore pilot holes close to the actual screw or nail diameter. If using trim-head screws, it is recommended that you drill a slightly larger hole than the diameter of the screw head so it can countersink itself.

End Sealing

After crosscutting, it is recommended that you seal all ends with a clear aqueous wax end sealer to help reduce checking. We recommend "Anchorseal" by UC Coatings.

Fastening

Stainless steel fasteners are recommended because of their superior corrosion resistance, maximum holding power, and ease of use. Always pre-drill a pilot hole before driving screw fasteners in any application and countersink screw fasteners when face screwing deck boards.

There are also various hidden-type under-mount or clip systems that may be used so there are no fasteners showing on the deck surface. The EB-TY® clip is a great example of a hidden deck

fastener. There are various types of EB-TYs made for the thickness of the deck boards you are using. Make sure to pre-drill and ask us for more information!

Finishing

After finishing your deck, clean the surface and allow it to dry for at least 2 days before applying a high quality penetrating oil-based sealer with UV inhibitors. We recommend applying U.V. Plus by Messmer's or Penofin's Bronze Label Hardwood Formula to keep your wood looking its best.

Within 3-6 months, follow up by applying another coat or when the Ipe looks dry or weathered. These initial applications help saturate the wood fibers, adding protection to preserve your deck and make "maintenance" coats less frequent.

Over time, apply this finish periodically to maintain Ipe's rich natural color. If you prefer, Ipe will also weather naturally without any oil to a silver gray patina over a period of time, thereby eliminating any finish maintenance. We do recommend that you at least apply an initial application of oil finish to your Ipe deck after completion. Please feel free to call us with any questions.

IPE'		1-500 LF	500-1000 LF
1x4	E4E 3/4x3 1/2	2.90	2.46
1x4	T&G 3/4x3	3.63	3.08
1x6	3/4x5 1/2	4.90	4.16
1x8	3/4x7 1/2	7.92	6.72
1x10	3/4x9 1/2	8.71	7.39
5/4x4	1x3 1/2	3.86	3.28
5/4x6	1x5 1/2	6.35	5.39
5/4x6	Elby Pregrooved	6.70	5.68
5/4x8	1x7 1/2	9.74	8.26
5/4x12	1x11 1/2	16.83	14.28
2x2	1 1/2 x 1 1/2	1.95	1.65
2x4	1 1/2 x 3 1/2	6.65	5.64
2x6	1 1/2 x 5 1/2	10.08	8.55
2x8	1 1/2 x 7 1/2	15.35	13.02
2x10	1 1/2 x 9 1/2	19.68	16.70
2x12	1 1/2 x 11 1/2	24.50	20.79
4x4	3 1/2 x 3 1/2	15.54	13.19
Railcap	1 1/4x5 1/2	11.63	9.87
Subrail	1x3 1/2	4.93	4.19



MASSARANDUBA

Handling & Storage of Massaranduba

Massaranduba is dried to approximately 20% moisture content and will equalize to about 12% depending on your deck's location. Like Ipé, give Massaranduba a chance to acclimate to current humidity levels before installation by storing in a cool, dry place, out of direct sunlight.

Installation

Your deck should be designed to stand at least 24" above the ground and be open on at least 3 sides to promote adequate cross ventilation. 1x4 and 5/4 Massaranduba decking may be installed on 16" o/c. joist systems. 5/4 material also may be installed on 24" o/c. Installing decks with a diagonal pattern may require narrower joist spacing. When installing, allow a minimum 3/16" space between 4" planks and 1/4" space between 6" planks. This promotes air circulation, allows drainage, and leaves room between the boards for shrinkage and expansion. The average rate of shrinkage is approximately 1/8" on 4" wide boards and 3/16" on 6" wide boards.

Cutting

Carbide-tipped saw blades and drill bits are recommended when cutting Massaranduba. Before fastening, always pre-drill a pilot hole close to the actual screw or nail diameter.

End Sealing

Massaranduba is end-waxed. Any cuts made on the planks must be immediately resealed with a clear aqueous wax end sealer to help reduce checking. We recommend "Anchorseal" by UC Coatings.

Fastening

Stainless steel fasteners are recommended because of superior corrosion resistance, maximum holding power, and ease of use. Always pre-drill a pilot hole before driving screw fasteners in any

application and countersink screw fasteners when face screwing deck boards. There are also various hidden-type under-mount or clip systems that may be used so there are no fasteners showing on the deck surface. The EB-TY® clip is a great example of a hidden deck fastener. There are various types appropriate for Massaranduba and the thickness of the stock you are using. Make sure to pre-drill and ask us for more information!

Finishing

After finishing your deck, clean the surface and wait at least 2 days to apply a thin coating of high quality penetrating oil-based sealer with UV inhibitors that limits checking and color fading. It is recommended that you test any product chosen on several sample boards to determine compatibility.

We recommend applying a superior quality penetrating oil finish with a UV sun block after completing your deck. U.V. Plus by Messmer's or Penofin's Bronze Label Hardwood Formula finish are excellent products that will keep your wood looking its best. Within 3-6 months, follow up by applying another coat or when the Massaranduba looks dry or weathered.

These initial applications help saturate the wood fibers, adding protection to preserve your deck and make "maintenance" coats less frequent. Over time, apply this finish periodically to maintain the natural color. If you prefer, Massaranduba will weather naturally without any oil to a silver gray patina over a period of time, thereby eliminating any finish maintenance. We do recommend that you at least apply an initial oil finish to your deck after completion and seasoning. Please feel free to call us with any questions.

MASSARANDUBA		1-500 LF	500-1000 LF
1x4	E4E 3/4x3 1/2	1.98	1.68
1x6	3/4x5 1/2	3.40	2.88
5/4x4	1x3 1/2	2.90	2.46
5/4x6	1x5 1/2	4.46	3.78

1" x 4"
(Actual Size: 3/4" x 3-1/2")

1" x 6"
(Actual Size: 3/4" x 5-1/2")

5/4" x 4"
(Actual Size: 1" x 3-1/2")

5/4" x 6"
(Actual Size: 1" x 5-1/2")

TIGERWOOD



Handling & Storage of Tigerwood

Tigerwood is dried to approximately 20% moisture content and will equalize to about 14 - 16% depending on your deck's location. Be sure to give Tigerwood a chance to acclimate to current humidity levels before installation by storing in a cool, dry place, out of direct sunlight.

Installation

Your deck should be designed to stand at least 24" above the ground and be open on at least 3 sides to promote adequate cross ventilation. 1x4 and 1x6 Tigerwood decking may be installed on 16" o/c. joist systems. 5/4x6 material should be installed on 24" o/c, with 2x6 Tigerwood material should be installed on 32" o/c. Installing decks with a diagonal pattern may require narrower joist spacing. When installing, allow a minimum 3/16" space between 4" planks and 1/4" space between 6" planks. This promotes air circulation, allows drainage, and leaves room between the boards for shrinkage and expansion. The average rate of shrinkage is approximately 1/8" on 4" wide boards and 1/4" on 6" wide boards.

Cutting

Carbide-tipped saw blades and drill bits are recommended when cutting Tigerwood. Before fastening, always pre-drill a pilot hole close to the actual screw or nail diameter.

End Sealing

Tigerwood is end-waxed. Any cuts made on the planks must be immediately resealed with a clear aqueous wax end sealer to help reduce checking. We recommend "Anchorseal" by UC Coatings.

Fastening

Stainless steel fasteners are recommended because of superior corrosion resistance, maximum holding power, and ease of use. Always pre-drill a pilot hole before driving screw fasteners in any application and countersink screw fasteners when face screwing

deck boards. There are also various hidden-type under-mount or clip systems that may be used so there are no fasteners showing on the deck surface. The EB-TY® and DeckMaster clips are a great example of a hidden deck fastener. There are various types appropriate for Tigerwood and the thickness of the stock you are using. Make sure to pre-drill and ask us for more information.

Finishing

After completing the construction of your deck, clean the surface and wait at least 2 days to apply a thin coating of high quality penetrating oil-based sealer with UV inhibitors that limits checking and color fading. It is recommended that you test any product chosen on several sample boards to determine compatibility.

We recommend applying a superior quality penetrating oil finish with a UV sun block. U.V. Plus by Messmer's or Penofin's Bronze Label Hardwood Formula finish are excellent products that will keep your wood looking its best. Within 3-6 months, follow up by applying another coat or when the Tigerwood looks dry or weathered.

These initial applications help saturate the wood fibers, adding protection to preserve your deck and make "maintenance" coats less frequent. Over time, apply this finish periodically to maintain the natural color. If you prefer, Tigerwood will weather naturally without any oil to a silver gray patina over a period of time, thereby eliminating any finish maintenance. We do recommend that you at least apply an initial oil finish to your deck after completion and seasoning. Please feel free to call us with any questions.

TIGERWOOD		1-500 LF	500-1000 LF
1 X 6	3/4 X 5-1/2	3.20	5.28
5/4 X 6	1 X 5-1/2	4.09	6.75

1" x 6"
(Actual Size: 3/4" x 5-1/2")

5/4" x 6"
(Actual Size: 1" x 5-1/2")



RED CEDAR

Handling & Storage of Red Cedar

Western Red Cedar is dried to approximately 20% moisture content and will equalize to about 14 - 16% depending on your deck's location. Be sure to give the lumber a chance to acclimate to current humidity levels before installation by storing in a cool, dry place, out of direct sunlight.

Installation

Your deck should be designed to stand at least 24" above the ground and be open on at least 3 sides to promote adequate cross ventilation. 1x4 and 1x6 Red Cedar decking may be installed on 16" o/c. joist systems. 5/4x6 material should be installed on 24" o/c, with 2x6 Cedar material should be installed on 32" o/c. Installing decks with a diagonal pattern may require narrower joist spacing. When installing, allow a minimum 3/16" space between 4" planks and 1/4" space between 6" planks. This promotes air circulation, allows drainage, and leaves room between the boards for shrinkage and expansion. The average rate of shrinkage is approximately 1/8" on 4" wide boards and 1/4" on 6" wide boards.

Cutting

Carbide-tipped saw blades and drill bits are recommended when cutting Western Red Cedar. Before fastening, always pre-drill a pilot hole close to the actual screw or nail diameter.

End Sealing

Any cuts made on the planks must be resealed with a clear aqueous wax end sealer to help reduce checking. We recommend "Anchorseal" by UC Coatings.

Fastening

Stainless steel fasteners are recommended because of superior corrosion resistance, maximum holding power, and ease of use. Always pre-drill a pilot hole before driving screw fasteners in any application and countersink screw fasteners when face screwing

deck boards. There are also various hidden-type under-mount or clip systems that may be used so there are no fasteners showing on the deck surface. The EB-TY® and DeckMaster clips are a great example of a hidden deck fastener. There are various types appropriate for Red Cedar and the thickness of the stock you are using. Make sure to pre-drill and ask us for more information.

Finishing

After completing the construction of your deck, clean the surface and wait at least 2 days to apply a thin coating of high quality penetrating oil-based sealer with UV inhibitors that limits checking and color fading. It is recommended that you test any product chosen on several sample boards to determine compatibility.

We recommend applying a superior quality penetrating oil finish with a UV sun block. U.V. Plus by Messmer's or Penofin's Bronze Label Hardwood Formula finish are excellent products that will keep your wood looking its best. Within 3-6 months, follow up by applying another coat or when the Cedar looks dry or weathered.

These initial applications help saturate the wood fibers, adding protection to preserve your deck and make "maintenance" coats less frequent. Over time, apply this finish periodically to maintain the natural color. If you prefer, Western Red Cedar will weather naturally without any oil to a silver gray patina over a period of time, thereby eliminating any finish maintenance. We do recommend that you at least apply an initial oil finish to your deck after completion and seasoning. Please feel free to call us with any questions.

CEDAR (W. Red Knotty)		1-500 LF	500-1000 LF
1x6	S1S KD Inland		
5/4x6	S4S GRN Decking	Please call for current price and availability	
2x4	S4S GRN STKnot		
2x6	S4S GRN STKnot		
4x4	S4S GRN Appear. Grd		

1" x 6"
(Actual Size: 11/16" x 5-1/2")

5/4" x 6"
(Actual Size: 1" x 5-1/2")

2" x 4"
(Actual Size: 1-1/2" x 3-1/2")

2" x 6"
(Actual Size: 1-1/2" x 5-1/2")

4" x 4"
(Actual Size: 3-1/2" x 3-1/2")

THERMALLY MODIFIED



EcoDeck (Thermally Modified Wood)

Using extreme heat, in a low oxygen state, explains the process of thermal modification to which #1& better southern yellow pine is subjected to create EcoDeck material. During this heat treatment, in which no chemicals are used, the wood's natural sugars are literally baked from the wood at temperatures near 500° F.

At the completion of this cycle, the yellow pine's cellular structure is forever altered. Once capable of absorbing and releasing moisture, the wood's cellular structure is now rigid and hard and completely water insoluble. Without this moisture component, the wood becomes more stable and resistant to decay. Even insects and microbes turn their noses up at thermally modified wood since the wood's natural sugars are long gone. What's left is a hard and rigid product, less vulnerable to decay and more dimensionally stable and resistant to warping. Guaranteed to last up to 30 years!

Handling & Storage

Because of its brittle nature, thermally modified yellow pine, or Perfik Dek, requires care in handling. Dropping the pieces may dent and damage the edges. When moving long pieces, lift from both ends. After unloading, store the material in a cool, dry place, on hardwood bunks, off the ground, and protected from direct sunlight. Sharp tools are highly recommended for the best results.

Installation

Design your deck to stand at least 24" above the ground and be open on at least 3 sides to promote adequate cross ventilation. It is recommended that you use StayTru structural material for framing your deck as compared to traditional treated lumber. Install Perfik Dek on 16" o/c joist systems. When installing, allow a minimum 1/4" space between 6" planks. This promotes air circulation, allows drainage, and leaves room between the boards for shrinkage and expansion.

Fastening

Stainless steel self-tapping screws with countersunk heads make the best choice for fastening because of their ease of use, superior corrosion resistance, and maximum holding power. Always predrill a pilot hole before driving screw fasteners into any board (especially near the ends).

If you choose to nail, use a small pneumatic nailer with adjustable drive depth. Again, use only stainless or galvanized nails and make

sure you test the pressure in order to adjust the nail penetration. There are also various hidden-type or under-mount clip systems that may be used to eliminate unsightly depressions in the deck surface where small pools of water may collect to promote rot.

Finishing

To maintain the original color of EcoDeck, we recommend applying a quality transparent wood preservative with a brown pigment. Although this may darken the wood's color, you'll enjoy a longer interval between applications. The material should be treated once before installation, followed by a finishing treatment after installation.

Opaque paint is another option for surface treatment; however, the EcoDeck's original color will be obscured. If you decide to leave your new deck untreated, the boards will turn grey and develop small surface checks to give the material a more antique appearance.

Unlike exotic hardwood decking, EcoDeck's end grain is unsealed. If you decide to leave your deck untreated or it's exposed to extreme temperatures, you might consider sealing the board's end grain with oil, wax, varnish, or Anchorseal.

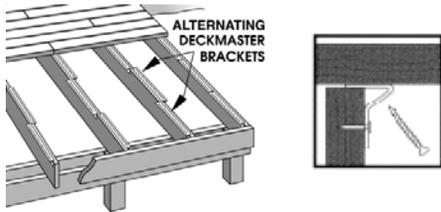
ECOVANTAGE Thermally Modified Wood			
ECODECK - Non-Stained		Qty in Lineal Feet	
Deck Boards, #1+Btr Yellow Pine		1-499	500+
1-1/4" x 5" x 8',10',12',14',16' Standard Brd		2.33	2.33
1-1/4" x 5" x 8',10',12',14',16' Grooved		2.79	2.79
1-1/4" x 6-3/4" x 8',10',12',14',16' Med Brd		3.50	3.50
1-1/4" x 8-1/2" x 8',10',12',14',16' Lrg Brd		4.44	4.44
Rail Boards & Posts			
1 x 4" x 8',10',12',14',16' Rail Brd		1.99	1.99
3" x 3" x 42",48",8',10' Rail Post		3.21	3.21
Pickets			
1-1/4" x 1-1/4" x 28',32',36',42',48' Std		0.91	0.91
1-1/4" x 1-1/2" x 28',32',36',42',48' Grod		1.05	1.05
1-1/4" x 3-1/4" x 28',32',36',42',48' Dbl Gro		2.10	2.10
STAYTRU Select Framing		Qty in Lineal Feet	
		1-499	500+
2 x 6	1-1/2" x 5-1/2" x 8',10',12',14',16'	2.43	2.43
2 x 8	1-1/2" x 7-1/4" x 8',10',12',14',16'	3.05	3.05
2 x 10	1-1/2" x 9-1/4" x 8',10',12',14',16'	3.85	3.85
2 x 12	1-1/2" x 11-1/4" x 8',10',12',14',16'	4.59	4.59
4 x 4	3-1/2" x 3-1/2" x 8'	2.98	2.98



F A S T E N E R S

A MORE PERFECT UNION

DECKMASTER BY GRABBER



How Many Brackets Do I Need?		
DECK SIZE SQUARE FEET	JOIST SPACING 16" O.C.	SPACING 24" O.C.
25 sq. ft.	10 Brackets	10 Brackets
50 sq. ft.	20	20
75 sq. ft.	30	30
100 sq. ft.	40	30
200 sq. ft.	80	60
300 sq. ft.	120	90
400 sq. ft.	160	120
500 sq. ft.	200	150

More people are using their decks as an extension of their home and want their decks to have the same look and beauty as their interior flooring. When you build a deck with the DECKMASTER® Hidden Deck Bracket System, there are no unsightly nails or nail stains to blemish the beauty of the wood. The DECKMASTER® fastening system gives you a smooth, unmarred surface that looks like a premium quality hardwood floor. The brackets are alternated to allow the joist to have equal tension on both sides, thereby equalizing the holding power from both sides of the joist.

How Many Brackets Needed:
For a 100 sqft Deck, 16"O.C.- 40 brackets. 24"O.C. - 30 brackets.

■ **CONSUMER PACK CONTENTS:** 10 Galvanized Brackets, 120 10 x 1 1/4" Deck Board Screws, 110 8 x 1" Joist Screws, and 1 Pro Bit Tip (square drive).

52206060 Consumer Pack \$32.00

■ **CONTRACTOR PACK CONTENTS:** 100 Galvanized Brackets, 1200 10 x 1 1/4" Deck board Screws, 1100 8 x 1" Joist Screws, and 1 Pro Bit Tip (square drive).

52206050 Contractor Pack \$269.00

ADDITIONAL DECKMASTER SCREWS			
52206055	DECKMASTER #10 X 1-3/4" SCREW 5lbs	\$	39.00
52206057	DECKMASTER #10 X 1-1/4" SCREW 5lbs	\$	29.00
52206058	DECKMASTER #8 X 1" JOIST SCREW 5lbs	\$	23.00



EB-TY DECK FASTENERS



EB-TYs are one of the most reliable, long-lasting fasteners on the market. They are manufactured in the United States and made of a dark color ultra-violet resistant polypropylene that blends with the shadow of the joints.

The EB-TY system works like tongue-and-groove flooring and relies on the oval device that simply hooks into slots at the edge of the deck boards where they cross a joist. The EB-TY also assures that the boards will be more evenly spaced to promote ventilation and drainage, plus accommodate any material expansion or shrinkage.

Hidden deck fastening systems enhance the beauty and durability of your deck. Given its approximate life span of 100 years, this fastener adds value to your new deck and saves money on deck repairs.

Package Consists of:
175 ea EB*TY Fasteners
190 ea 2" Stainless Steel Swaneze Finishing Screws (#1square drive)
12 ea Wood Plugs
1 ea Installation Guide

One Package:
Installs 100 sqft of 5-1/2" Deck on 16" centers or
Installs 50 sqft of 3-1/2" Deck on 16" centers.

ITEM #	FOR DECKING	PRICE
52207119	5/4+ Thick @ 3/32 spacing	105.00
52207133	5/4+ Thick @ 1/4 spacing	105.00
52207131	1 1/16-3/4 @ 1/4 spacing	105.00
52207130	3/4 Thick @ 3/32 spacing	105.00

ECODECK FASTENERS



Results in a smooth surface with no unsightly nails. EcoDeck Fasteners are installed from above for a more efficient and easier installation.

ECOAVANTAGE PERFIK FASTENERS		
ITEM #	FASTENERS	PRICE
52207168	Fasteners w/screws 100/box	51.00
ECOAVANTAGE PERFIK SCREWS		
ITEM #	SCREWS	PRICE
52207161	450/Pail	112.00
52207169	5# 2.5 x #7 Trim	33.66

SEALANTS

ANCHORSEAL

Exotic hardwood decking is always endcoated to seal the endgrain and limit the amount of moisture the wood can absorb (or wick) through the end grain. If you need to trim your deck boards to length, recoat the fresh cut ends as soon as possible with

ANCHORSEAL®. Similar in viscosity to latex paint, ANCHORSEAL is easily brushed on and stops most end checking before it begins. Just like water-based paint, care must be taken not to expose ANCHORSEAL to temperatures below 32°F. ANCHORSEAL is essentially non-toxic and non-hazardous and is not combustible until dried and then has a flash point in excess of 400° F/205°C. We recommend storing and applying ANCHORSEAL in a controlled environment, above 50°F, for trouble-free use.

ITEM	DESCRIPTION	SIZE	PRICE
55409004	ANCHORSEAL ®	Pt.	\$ 5.25
55409002	ANCHORSEAL ®	Qt.	\$ 8.75
55409003	ANCHORSEAL ®	Gal.	\$ 24.50
55409001	ANCHORSEAL ®	5 Gal.	\$ 105.00

PENOFIN- THE BEST HARDWOOD FORMULA PENETRATING OIL FOR THE FINAL FINISH

Penofin® Hardwood Formula is especially formulated to penetrate dense hardwoods as Ipé, Massaranduba, Pau Lope®, Ironwood™, Mahogany and Teak.

- 99% ultraviolet protection via transoxide pigments.
- Advanced mildew protection.
- Higher content of Oiticica Oil allows for deeper penetration that won't crack, bubble, or peel.
- Available in a natural, transparent tone that magnifies the beauty of the wood & allows the wood to gray naturally.

ITEM	DESCRIPTION	QTY	PRICE
55108577	Penofin® Exterior Hardwood Formula	Gal	\$49.00



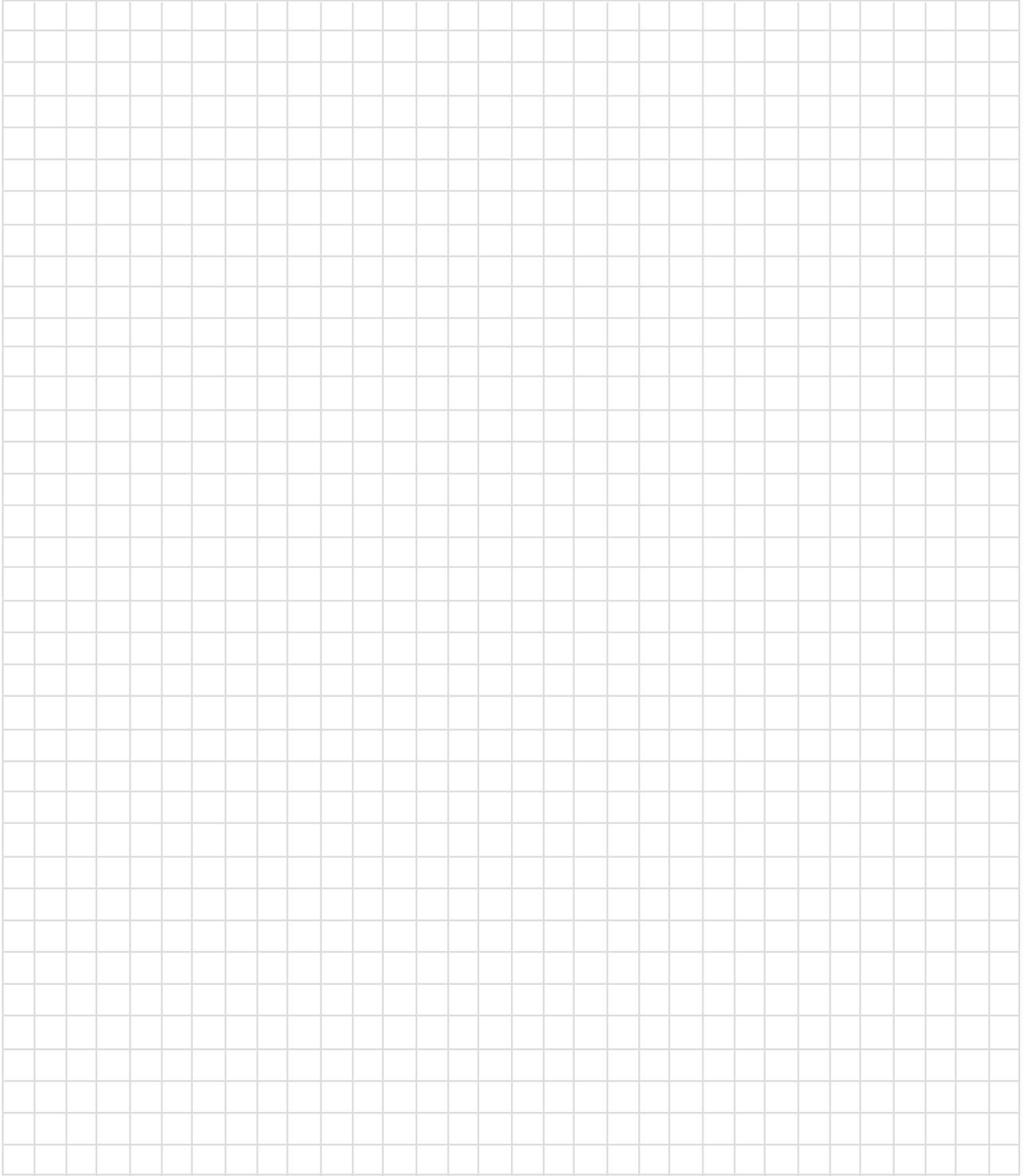
HARDWOOD FINISH APPLICATION TIPS

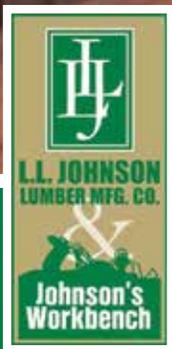
- SHAKE WELL BEFORE USING. DO NOT add thinning or blending agents.
- Apply Penofin to a clean, dry surface. Surface must be free of dirt and sawdust build-up. Do not apply in direct, HOT sunlight (when wood is hot to the touch).
- Brush on, use a stain pad, or spray on (garden or pump airless sprayers) one coat of PENOFIN. A dip-tank or prestain machine will also provide excellent results with maximum durability. Brushing gives best results. Brush thoroughly and back brush Penofin into the wood, leaving no excess. Wipe entire surface after 20-30 minutes with a nap-free cloth. Do not allow film to develop on wood surface. Application should be made with no chance of rain during the process or during the 12 hour drying time. If rain occurs, spots may develop on wood surfaces. Do not apply in direct hot sun! A minimum air temperature of 45° is required during application and drying time. Recommended optimal air temperature is 70° for application. DO NOT FLOOD.
- Allow for maximum penetration, wait 30 minutes, then use a nap-free shop cloth and wipe the entire surface, removing any excess product. Surface will be dry to the touch in 3 hours, and ready for use in 12 hours.
- Penofin is combustible, so keep this product away from heat, open flame, and sparks. Beware of spontaneous combustion. Make certain all rags and other materials used with Penofin are soaked in water, stored in an air-tight container, or otherwise disposed of safely.
- After using the one-coat formula, the application is complete.
- Do not apply wet-on-wet.
- If using the two-coat formula, wait a minimum of 3 hours and apply a light second coat and again wipe any excess from the entire application area.

COVERAGE 175-300 square feet per gallon of Hardwood Finish.

MAINTENANCE A maintenance coat of Hardwood Finish should be applied within 3-6 months after the initial application. The next maintenance coat should be done again in approximately 10-12 months. Over time, the wood fibers become fully protected and the maintenance will become less frequent. Wash the wood with a mild cleanser and warm water. Rinse well. Allow wood to dry for a minimum of 48-72 hours. Apply a maintenance coat of Hardwood Finish. After 20-30 minutes of absorption time, wipe the surface with a nap-free, clean dry cloth.

DECK SKETCH





800-292-5937
theworkbench.com

STORE HOURS:

CHARLOTTE:

Mon - Fri 8:30 to 5:30
Sat 8:30 to 4:00

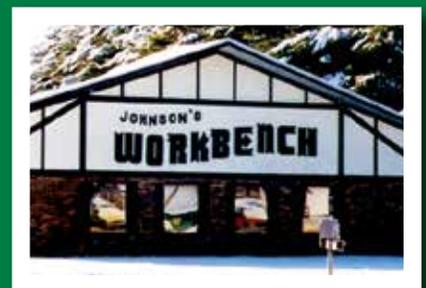
SOUTH BEND:

Tues - Fri 9:30 to 5:30
Sat 9:30 to 3:00
Sun - Mon Closed



**L.L. Johnson Lumber Mfg. Co
& Johnson's Workbench**

563 N Cochran Ave
Charlotte, MI 48813
Phone: 517-543-1660
Fax: 517-543-7180



**Johnson's Workbench
South Bend**

51315 Indiana 933 North
South Bend, IN 46637
Phone: 574-277-8350
Fax: 574-272-8798