



Ipé

GOODFELLOW





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About Ipé

Ipé is a dense hardwood from South America. Compared to other decking wood, Ipé is extremely weather resistant, significantly harder, has superior bending strength, and is more resistant to insects and decay. It is referred to as “Brazilian Walnut” among flooring dealers, though it is not related to true Walnut in the Juglans genus.

Common Uses:

- Decking
- Flooring
- Furniture
- Exterior Siding
- Veneer
- Turned Objects
- Tool Handles

Tree Size	100-130 ft (30-40 m) tall 2-4 ft (0.6-1.2 m) trunk diameter
Average Dried Weight	69 lb/ft ³ (1,100 kg/m ³)
Specific Gravity (Basic, 12% MC)	0.91, 1.10
Janka Hardness	3,510 lb (15,620 N)
Modulus of Rupture	25,660 lb/in ² (177.0 MPa)
Elastic Modulus	3,200,000 lb/in ² (22.07 GPa)
Crushing Strength	13,600 lb/in ² (93.8 MPa)
Shrinkage	Radial 5.9%, Tangential: 7.2%, Volumetric: 12.4%, T/R Ratio: 1.2

Air dried Ipé (20-25% moisture) is kept in stock

Ipé decking has a natural golden brown colour. When oiled and maintained this may darken to a deep reddish mahogany colour or when left to sun exposure will gradually fade to a silvery grey patina. Ipé that is allowed to silver will not lose structural integrity.



Biodôme, Montréal, Québec

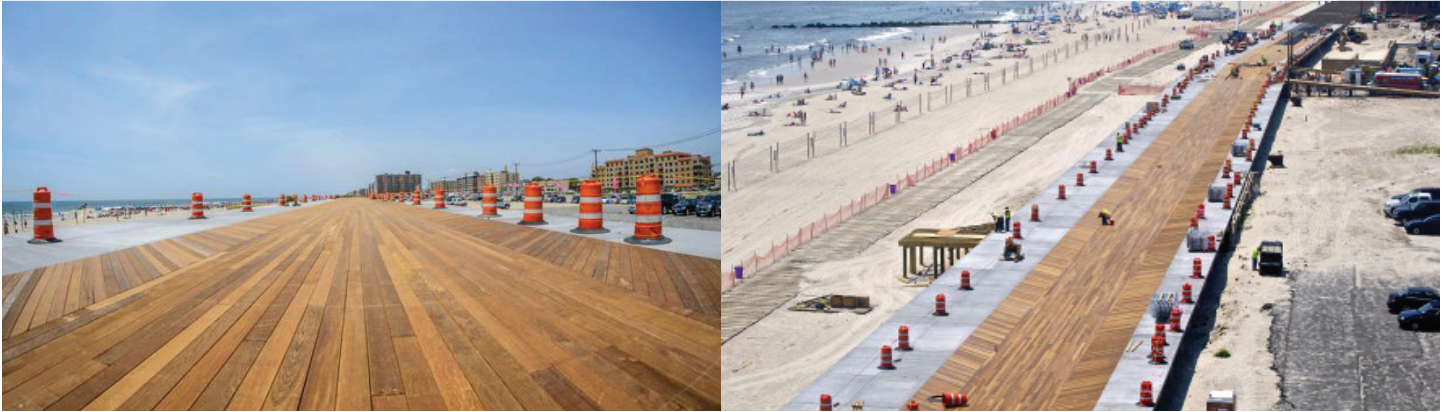


House Spa, Tremblant, Québec

About Ipé



Long Beach Boardwalk, New York, USA: Ipé was used for this boardwalk which speaks to the durability of Ipé given the amount of traffic and environmental stresses put upon the wood.



Workability:

Overall, Ipé is a difficult wood to work, since it's extremely hard and dense, with high cutting resistance during sawing. Ipé also has a pronounced blunting effect on cutting edges. The wood generally planes smoothly, but the grain can tear out on interlocked areas. Also, Ipé can be difficult to glue properly, therefore surface preparation prior to gluing is recommended. Straight-grained wood turns well, though the natural powdery yellow deposits can sometimes interfere with polishing or finishing.

Rot Resistance:

Rated as very durable with superior insect resistance and has superb weathering characteristics.

Color and Appearance:

Heartwood can vary in color. You can see reddish brown, yellowish olive brown, darker blackish brown and sometimes with contrasting darker brown and black stripes. Powdery yellow deposits within the wood can occur. Ipé can be difficult to distinguish visually from Cumaru, another dense South American timber.

Aroma:

Ipé has a pleasant if mild and nutty aroma.

Grain and Texture:

With a fine to medium texture, the grain varies from straight to irregular or interlocked. It boasts a moderate natural luster.

Endgrain:

The endgrain is diffuse-porous. It has solitary and radial multiples with medium to large pores in no specific arrangement. It also has moderately numerous tyloses and some mineral and gum deposits present occasionally. Along with parenchyma unilateral, winged, and marginal there are narrow rays with normal spacing. There are ripple marks present.

Ipé Decking

Please see common stock sizes below.
Always check inventory and availability before confirming orders.
Sizes are referenced by nominal sizing.

Contact us for sizes not listed, and to arrange special milling orders.

Thickness	Width	Length (all actual)
1" nominal ($\frac{3}{4}$ " actual)	4" nominal ($3\frac{1}{2}$ " actual)	6', 8', 10', 12', 14', 16', 18', 20'
	6" nominal ($5\frac{1}{2}$ " actual)	6', 8', 10', 12', 14', 16', 18', 20'
	8" nominal ($7\frac{1}{4}$ " actual)	6', 8', 10', 12', 14', 16', 18', 20'
	10" nominal ($9\frac{1}{4}$ " actual)	6', 8', 10', 12', 14', 16', 18', 20'
	12" nominal ($11\frac{1}{4}$ " actual)	6', 8', 10', 12', 14', 16', 18', 20'
$\frac{5}{4}$ " nominal (1" actual)	4" nominal ($3\frac{1}{2}$ " actual)	6', 8', 10', 12', 14', 16', 18', 20'
	6" nominal ($5\frac{1}{2}$ " actual)	6', 8', 10', 12', 14', 16', 18', 20'
	8" nominal ($7\frac{1}{4}$ " actual)	6', 8', 10', 12', 14', 16', 18', 20'
	10" nominal ($9\frac{1}{4}$ " actual)	6', 8', 10', 12', 14', 16', 18', 20'
	12" nominal ($11\frac{1}{4}$ " actual)	6', 8', 10', 12', 14', 16', 18', 20'
$\frac{5}{4}$ " nominal (1" actual) PRE-GROOVED	6" nominal ($5\frac{1}{2}$ " actual)	6', 8', 10', 12', 14', 16', 18', 20'
2" nominal ($1\frac{1}{2}$ " actual)	2" nominal ($1\frac{1}{2}$ " actual)	6', 8', 10', 12', 14', 16', 18', 20'
	4" nominal ($3\frac{1}{2}$ " actual)	6', 8', 10', 12', 14', 16', 18', 20'
	6" nominal ($5\frac{1}{2}$ " actual)	6', 8', 10', 12', 14', 16', 18', 20'
	8" nominal ($7\frac{1}{4}$ " actual)	6', 8', 10', 12', 14', 16', 18', 20'
	10" nominal ($9\frac{1}{4}$ " actual)	6', 8', 10', 12', 14', 16', 18', 20'
	12" nominal ($11\frac{1}{4}$ " actual)	6', 8', 10', 12', 14', 16', 18', 20'
4" nominal ($3\frac{1}{2}$ " actual)	4" nominal ($3\frac{1}{2}$ " actual)	8', 10', 12', 14', 16', 18', 20'

Customization :

Other sizes may be available upon request, including common sizes in shorter, longer, odd lengths, 3" thick by various widths, 4" thick by other widths, and 6" x 6". Pieces may be ripped or cut in mill to accommodate specific sizes needed. Note that eased edges will be lost in process.

Decking is also available to order PRE-OILED. Please contact us to arrange pre-oiled orders and for pricing information. Please allow 4 weeks lead time for pre-oiled orders.



The mark of
responsible forestry
FSC® C008114

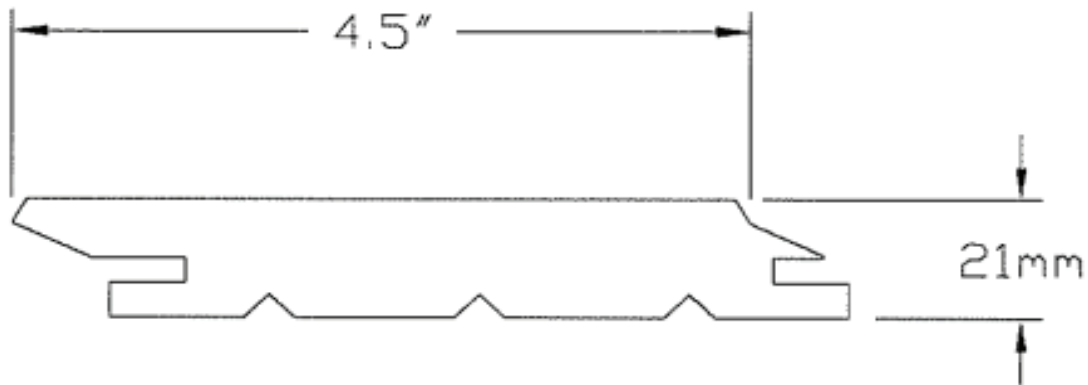
Some sizes can be sourced with FSC® certification, please contact us for more information and availabilities.

Ipé Siding Profiles

Due to factors such as clip cost, Ipé siding is only offered in Ipex siding profile (sometimes referred to as "rainscreen").

Ipex siding can be installed using the DECKWISE EXTREME SHORT CLIPS. The leg height of $\frac{1}{4}$ " is correct for this profile and is much more affordable than the clips that had been used in past (see pages 7 to 10 for clips).

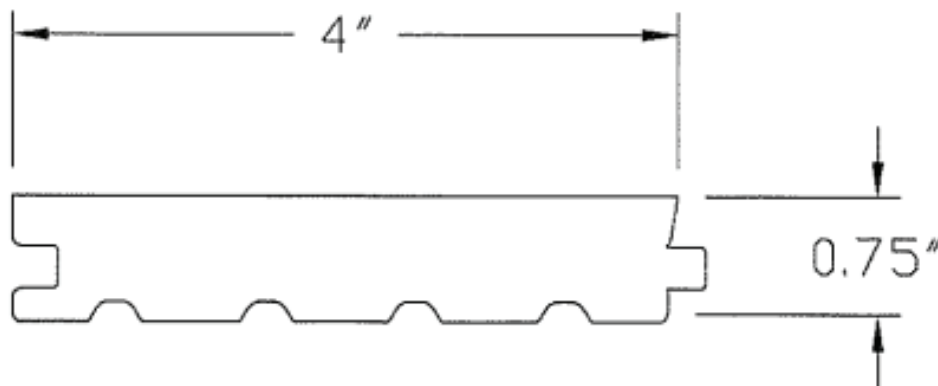
Ipex siding measures $4\frac{1}{2}$ " wide by 21mm thick. This thickness is the minimal that can be used for industrial projects and is still easily used for private homes.



Lengths available would be the same as the $\frac{5}{4}$ x 6 stock that would be run from the mill. Ipex siding is now a custom run from our air-dried decking stock. Please allow 2-3 weeks for material to be picked and dressed.

Note:

For repair of previous siding, Square Edge and T&G siding can still be run in our mill.



Tiles



Ipé Tiles

Pre-made Ipé decking tiles are available in both 20"x 20" and 24"x 24". These tiles have predrilled holes to allow installation using plastic connectors. They are simple to remove, rearrange and lay in new locations, and interchangeable.

This product is extremely easy to install and ideal for DIYers.

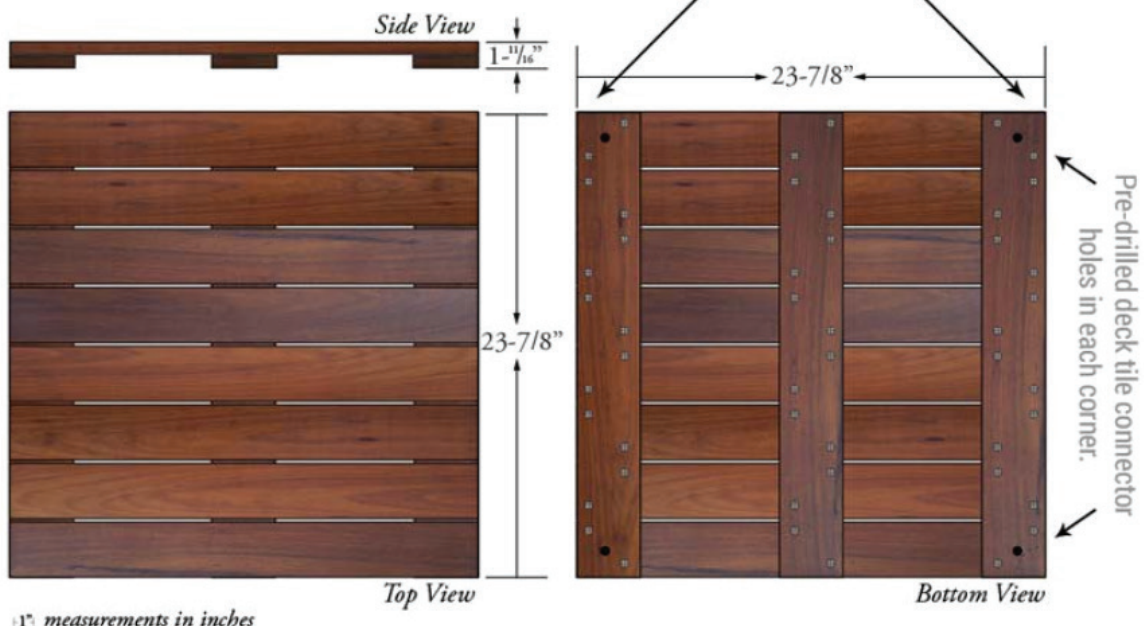


24" X 24" Part number - 958021051

Tile Dimensions:

- o Smooth Surface: 24" x 24" (600mm x 600mm)
- o Thickness: 1.69" (43mm)
- o Net Finished: 1-11/16" x 23-7/8" x 23-7/8"

Pre-cut side kerf between slats on all 4 corners for optional pedestal hold down connector.



Tiles

Tile Connectors

Part number - 958021101



Tile connectors should be purchased one per tile required, on average. This may vary with layout plans. These connectors attach the tiles underneath, and each quarter is easily cut out using a sharp utility knife to use on sides and corners.



Clips



Ipé Clips

All Ipé should be installed using stainless-steel-based fasteners. These clips have a stainless-steel insert and are coated in coloured plastic. Brown is best for Ipé that will be kept oiled and retain its colour, though some customers prefer black. Grey is best used for Ipé that will be allowed to dry and silver with age.

EXTREME TALL Part codes - 958021003 (350 pc black), 958021005 (350 pc brown)

Used for: 5/4 x 6 grooved decking



Ipé Clips are the most affordable and easy to use fasteners for Ipé decking.

Leg height: $\frac{3}{8}$ "

Leg width (results in gap spacing): $\frac{3}{32}$ ". The narrowest and most commonly desired spacing.

Packages available:

100 pc kit (Special Order)	350pc kit (In Stock)	2-gal contractor bucket (Special Order)	5-gal contractor bucket (Special Order)
COVERAGE: ~50sqft	COVERAGE: ~100sqft	COVERAGE: ~300sqft	COVERAGE: ~600sqft
<ul style="list-style-type: none"> • 100 - Clips • 100 - #8, 2" stainless steel screws • Instruction sheet 	<ul style="list-style-type: none"> • 175 - Clips • 190 - #8, 2" stainless steel screws - T15 star drive • 12 - Ipé plugs • 1 - $\frac{1}{8}$" high-speed drill bit • 1 - T15 star drive tip • Instruction sheet 	<ul style="list-style-type: none"> • 525 - Clips • 570 - #8, 2" stainless steel screws - T15 star drive • 3 - $\frac{1}{8}$" high-speed drill bit • 3 - T15 star drive tip • Instruction sheet 	<ul style="list-style-type: none"> • 1050 - Clips • 1140 - #8, 2" stainless steel screws - T15 star drive • 5 - $\frac{1}{8}$" high-speed drill bit • 5 - T15 star drive tip • Instruction sheet

Clips



EXTREME SHORT Part codes - 958021007 (350 pc black), 958021006 (350 pc brown)

Used for: 1 x 6 decking that has been run to a groove, or Ipex siding.



Leg height: ¼"

Leg width (results in gap spacing): ⅜". The narrowest and most commonly desired spacing.

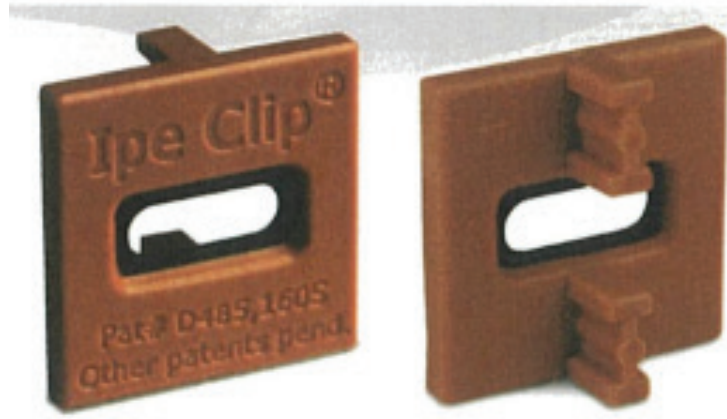
Packages available:

100 pc kit (Special Order)	350pc kit (In Stock)	2-gal contractor bucket (Special Order)	5-gal contractor bucket (Special Order)
COVERAGE: ~50sqft	COVERAGE: ~100sqft	COVERAGE: ~300sqft	COVERAGE: ~600sqft
<ul style="list-style-type: none"> • 100 - Clips • 100 - #8, 2" stainless steel screws • Instruction sheet 	<ul style="list-style-type: none"> • 175 - Clips • 190 - #8, 2" stainless steel screws - T15 star drive • 12 - Ipé plugs • 1 - ⅛" high-speed drill bit • 1 - T15 star drive tip • Instruction sheet 	<ul style="list-style-type: none"> • 525 - Clips • 570 - #8, 2" stainless steel screws - T15 star drive • 3 - ⅛" high-speed drill bit • 3 - T15 star drive tip • Instruction sheet 	<ul style="list-style-type: none"> • 1050 - Clips • 1140 - #8, 2" stainless steel screws - T15 star drive • 5 - ⅛" high-speed drill bit • 5 - T15 star drive tip • Instruction sheet

Clips

EXTREME 4 Part codes - 958021008 (350 pcs black), 958021009 (350 pcs brown)

Used for: Decking that has been run to a groove, when customer wants a wider gap between deck boards



Leg height: ¼"

Leg width (results in gap spacing): ⅝"

Packages available:

100 pc kit (Special Order)	350pc kit (Special Order)	2-gal contractor bucket (Special Order)	5-gal contractor bucket (Special Order)
COVERAGE: ~50sqft	COVERAGE: ~100sqft	COVERAGE: ~300sqft	COVERAGE: ~600sqft
<ul style="list-style-type: none"> • 100 - Clips • 100 - #8, 2" stainless steel screws • 3 - ⅝" spacers • Instruction sheet 	<ul style="list-style-type: none"> • 175 - Clips • 190 - #8, 2" stainless steel screws - T15 star drive • 12 - Ipé plugs • 1 - ⅝" high-speed drill bit • 1 - T15 star drive tip • 3 - ⅝" spacers • Instruction sheet 	<ul style="list-style-type: none"> • 525 - Clips • 570 - #8, 2" stainless steel screws - T15 star drive • 3 - ⅝" high-speed drill bit • 3 - T15 star drive tip • 6 - ⅝" spacers • Instruction sheet 	<ul style="list-style-type: none"> • 1050 - Clips • 1140 - #8, 2" stainless steel screws - T15 star drive • 5 - ⅝" high-speed drill bit • 5 - T15 star drive tip • 6 - ⅝" spacers • Instruction sheet

Clips

EXTREME KD Part codes - 958020000 (350 pc brown)

Used for: Kiln dried Ipé that has been run to a groove, for indoor uses.



Leg height: ¼"

Leg width (results in gap spacing): ¼"

Packages available:

100 pc kit (Special Order)	350pc kit (Special Order)	2-gal contractor bucket (Special Order)	5-gal contractor bucket (Special Order)
COVERAGE: ~50sqft	COVERAGE: ~100sqft	COVERAGE: ~300sqft	COVERAGE: ~600sqft
<ul style="list-style-type: none"> • 100 - Clips • 100 - #8, 2" stainless steel screws • 3 - 5/32" spacers • Instruction sheet 	<ul style="list-style-type: none"> • 175 - Clips • 190 - #8, 2" stainless steel screws - T15 star drive • 12 - 3/8" Ipé plugs • 1 - 1/8" high-speed drill bit • 1 - T15 star drive tip • 3 - 1/4" spacers • Instruction sheet 	<ul style="list-style-type: none"> • 525 - Clips • 570 - #8, 2" stainless steel screws - T15 star drive • 5 - 1/8" high-speed drill bit • 5 - T15 star drive tip • 6 - 1/4" spacers • Instruction sheet 	<ul style="list-style-type: none"> • 1050 - Clips • 1140 - #8, 2" stainless steel screws - T15 star drive • 5 - 1/8" high-speed drill bit • 5 - T15 star drive tip • 6 - 1/4" spacers • Instruction sheet

Oil

Oil

To preserve the rich, red, mahogany beauty and colour in Ipé decking, it must be oiled regularly. Frequency depends highly on weather and sun exposure. For decking in partial sun, it is recommended that Ipé be oiled approximately once per year, and for direct sun exposure it is recommended that Ipé be oiled approximately twice per year

Ipé oil Part code - 958021025 (In Stock)

Size: 1 gallon (4 liters).

Coverage: ~250 sqft

The most popular oil, with a faint red tint which brings out Ipé's beautiful colour.



Ipé decking that is allowed to silver will not lose structural integrity. To return decking to its original colour after it has silvered. Simply sand it down and oil the decking.

Messmer's oil Part code - 958021020 (In Stock)

Size: 1 gallon (4 liters).

Coverage: ~250 sqft

Messmer's oil does not have the red tint of Ipé oil, but provides essential moisture and UV protection. It will darken the natural colour slightly, and will be more brown than red.



Accessories

Tape

Applying tape to the top of decking joists, over ledger boards, and around support posts creates a waterproof seal to help prevent rotting and decay. These are caused by moisture that stays in contact with treated and untreated lumber deck framing and the above decking. Wood decay can also occur when deck screws penetrate the deck boards, piercing the joist sub-framing below. The application of tape will also seal around decking screws preventing the intrusion of moisture and water.

Joist tape Part code - 958021041 (In Stock)
Size: 3" wide x 75' long



Ledger tape Part code - 958021042 (In Stock)
Size: 12" wide x 25' long



Accessories



Cleaner and Brightener

Part codes - **Cleaner**, step 1: 958021021 (In Stock), **Brightener**, step 2: 958021022 (In Stock).

Size: 16 oz per jar.

Coverage: ~600 sqft. There are 32oz jars available by special order.

With time, wood decking naturally gets dirty and loses its luster. DeckWise Wood Deck Cleaner (Part 1) and Brightener (Part 2) remove dirt and greying in preparation for oiling. These concentrated powders are formulated specially to clean and brighten exterior wood decks, patios, terraces, wood siding, wood fences, benches, chairs, and other outdoor wood items.

Note: Cleaner or brightener can be used without the other product if it is not required.



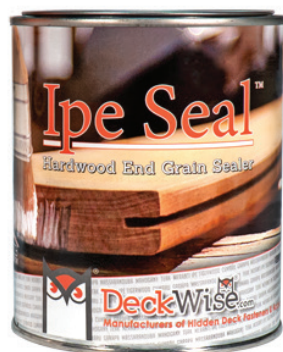
End Seal

Part code – 958021030 (In Stock)

Size: 1 quart.

Coverage ~500 sqft

End seal is a waxy product used to seal the cut ends of Ipé deck boards. If left unsealed these can absorb moisture, which can result in splitting or checking of the ends. End seal is to be used on ends of boards ONLY, never on decking surfaces.

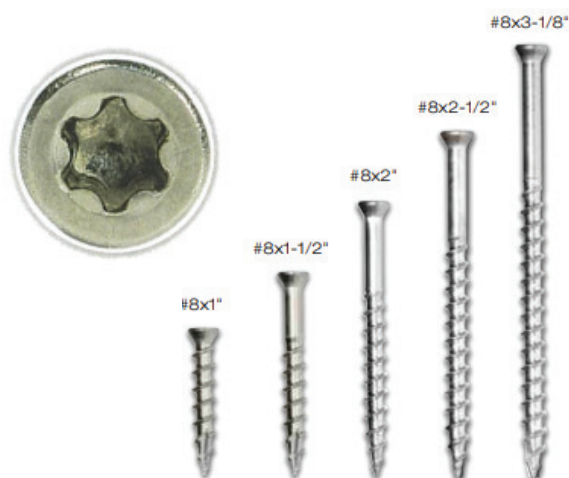


Screws and Plugs

While 5/4 x 6 decking can be ordered pre-grooved, some users will prefer to install their deck using a screw and plug method. Keep in mind that fascia, handrails, stairs, start boards, and end boards will not be able to be installed with grooved boards and clips. These components are best installed using screws and plugs.

DeckWise Screws

#8, T15 Star Drive trim heads - available in 100pc, 350pc, 1050pc, and 1750pc packages
Size: 3/8" wide (1/2" available by special order). Bugle head screws are available for special order.



If installer does not wish to leave the screw head visible, screws can be inserted allowing a 3/8" wide countersink hole that can be filled with Ipé plugs.

DeckWise Plugs

Part codes – 350pc: 958021010 (In Stock), 1050pc: 958021011 (In Stock)

100pc and 1750pc packages available by special order.

Complete "Master Plug Kits" containing both screws and plugs, as well as glue and Drill & Drive kit are available by special order.

3/8" and 1/2" plug cutters, allowing customers to cut plugs as needed from waste pieces of Ipé are available by special order



Accessories

DeckWise Drill & Drive Kit

Part code - 958021014 (In Stock)

Note: Deckwise plugs are $\frac{3}{8}$ " and the Deckwise Drive & Drill kit is what supports the correct pre-drilled hole for the $\frac{3}{8}$ " plug.



DRILL



FLIP



DRIVE

EVERY DRILL&DRIVE™ KIT INCLUDES:

1 Quick Change Locking Collar

2 1/8" High-speed Drill Bit & 3/8" Countersink Tool with T15 Star Drive Tip

3 4 5 1/8" Drill Bit & 3/8" Countersink

6 On-board Hex Key

7 8 9 10 T15 Star Drive Tip



Adjustable pilot hole and counter-sink drill bit system



Locking set screws



On-board hex key

*Replacement tips	T15 Star Drive Tip
*Replacement bits	1/8" (3,175 mm) Drill Bit & 3/8" (9,525 mm) Countersink

*Sold separately

Hardwood Wrench

Part code - 958021040 (In Stock)

A strong tool used to straighten the curve that can occur in longer, air dried deck boards. An investment for installers who regularly use Ipé decking. This tool is a significant improvement over traditional straightening methods.



Adjustable Stainless Steel Joist Pins For Use On Up To 3.5" Joists

Hard-Anodized Aircraft Grade Aluminum

Solid American Ash Handle

Stainless Steel Multi-Position Handle

Accessories



Starborn Screws and Plugs (In Stock)

Pro Plug Kits (see “Image A” below) from Starborn include both the screws and plugs and a glue nozzle to cleanly and easily glue the inside of the countersink hole before inserting the plug.

Starborn Pro Plug System Tool (see “Image B” below) predrills the hole for the screw as well as sets a countersink to the correct depth to accommodate the plug on top.

Note: Starborn plugs are $\frac{5}{16}$ " and are to be used in conjunction with the Starborn Pro Plug System.

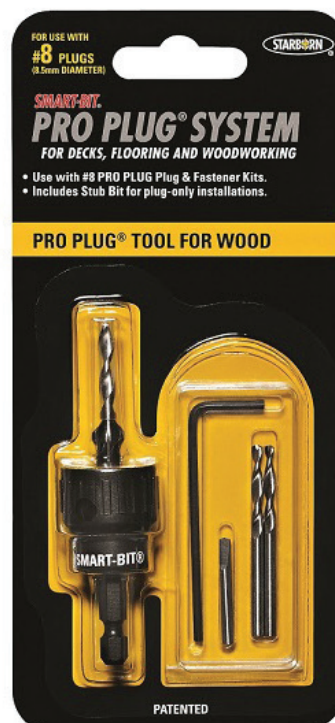
100pc Kit	350pc Kit	1050pc Kit
Part code - 958020007	Part code - 958020006	Part code - 958020005
COVERAGE: ~ 25 sq ft	COVERAGE: ~ 100 sq ft	COVERAGE: ~ 300 sq ft
<ul style="list-style-type: none"> • 100 - #8, 2 ½" stainless steel screws • 100 - $\frac{5}{16}$" Ipé deck plug • Glue nozzle 	<ul style="list-style-type: none"> • 350 - #8, 2 ½" stainless steel screws • 350 - $\frac{5}{16}$" Ipé deck plugs • Glue nozzle 	<ul style="list-style-type: none"> • 1050 - #8, 2 ½" stainless steel screws • 1050 - $\frac{5}{16}$" Ipé deck plugs • Glue nozzle



Image A

Image B

Pro Plug System Tool
Part number: 958020004



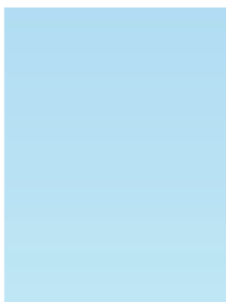
Accessories

Pro Plug System User Guide:



1. DRILL

PRO PLUG TOOL: The patented Pro Plug Tool creates a screw hole, countersink and counterbore to match other system components. For use with decking materials between 3/4" and 1-1/4" thick.



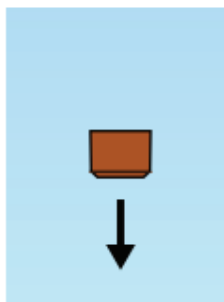
2. SCREW

PRO PLUG FASTENER: Decking Kits come with Grade 305 stainless steel deck screws. The fasteners are 2-1/2" long and have a star drive recess.



3. GLUE

PRO PLUG GLUE NOZZLE: The patented Nozzle coats the sides of the hole, where glue is needed, and attaches to any interior or exterior 4 or 8 oz. bottle of Titebond® wood glue and any 4, 8 or 16 oz. bottle of Elmer's® wood glue.



4. PLUG

PRO PLUG PLUGS: Face grain wood plugs (approx. 5/16" diameter) are available in many species - see below. Plugs are inserted completely, with no need for sawing or chiseling. Light sanding is recommended.



**SCREW DOWN
STRENGTH.
PERFECT FINISH.**

Drill, Screw, Glue & Plug in under 20 seconds. The Pro Plug System is designed to save time and money while achieving a high-end and durable finish.



COMPONENT PACKS

PRO PLUG DECKING AND FLOORING KITS: Plugs, screws, and the Glue Nozzle, available in **100 pc.**, **350 pc.** (100 sq. ft.) and **1050 pc.** (300 sq. ft.) packs with equal numbers of plugs and screws. Decking kits contain 2-1/2" stainless screws. Flooring kits contain 1-5/8" zinc plated screws.

PRO PLUG TOOL: Countersinking and counterboring tool with three standard bits and a stub bit for plug-only installations.

PRO PLUG TOOL REPLACEMENT BITS: Five standard bits for the Pro Plug Tool.



8385 White Oak Avenue
Rancho Cucamonga, CA 91730
909.483.0250 ph. | 909.483.0336 fx.

Test Report No: RJ2432-3

SAMPLE ID: Test samples were identified as Ipe.

SAMPLING DETAIL: Test samples were submitted to the laboratory directly by the client. No special sampling conditions or sample preparation were observed by QAI.

AUTHORIZATION: Testing authorized by Perry Alibrio.

TEST REQUESTED: Perform standard flame spread and smoke density developed classification tests on the sample supplied by the Client in accordance with ASTM Designation E84-10, "Standard Method of Test for Surface Burning Characteristics of Building Materials". The foregoing test procedure is comparable to UL 723, ANSI/NFPA No. 255, and UBC No. 8-1.

TEST RESULTS:	<u>Flame Spread</u>	<u>Smoke Developed</u>
	25	400

Detailed test results are presented in the subsequent pages of this report

CONCLUSION: The submitted material meets the requirements for a "Class A" Flame Spread. See classification requirements on page 2.

Signed for and on behalf of
QAI Laboratories, Inc.

Greg Banasky
Senior Technician

Page 1 of 3
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WWW.QAI.ORG
info@qai.org



PREPARATION AND CONDITIONING: The sample material was submitted in pieces, 5 1/2" wide by 96" long. Four of the pieces were placed side by side and battened together to form specimens, 22" by 96" long, conforming to test chamber dimensions. Three of these pieces were used for the test. The sample was supported during testing with 1/4" round metal rods placed at two foot intervals across the width of the test chamber

E 84 TEST DATA SHEET:

SAMPLE: Ipe

FLAME SPREAD:

IGNITION: 1 minute, 7 seconds

FLAME FRONT: 10 feet maximum

TIME TO MAXIMUM SPREAD: 9 minutes, 22 seconds

TEST DURATION: 10 minutes

CALCULATION: $51.03 \times 0.515 = 26.28$

SUMMARY: **FLAME SPREAD:** 25 **SMOKE DEVELOPED:** 400

In order to obtain the Flame Spread Classification, the above results should be compared to the following table:

<u>NFPA CLASS</u>	<u>IBC CLASS</u>	<u>FLAME SPREAD</u>	<u>SMOKE DEVELOPED</u>
A	A	0 through 25	Less than or equal to 450
B	B	26 through 75	Less than or equal to 450
C	C	76 through 200	Less than or equal to 450

BUILDING CODES CITED:

1. National Fire Protection Association, ANSI/NFPA No. 101, "Life Safety Code", 2006 Edition.
2. International Building Code, 2006 Edition, Chapter 8, Interior Finishes, Section 803.

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