



# PREFINISHED TIMBER FLOORING

"Fast, Hassle free installation with a premium finish"



## **ICC - An Innovative solution provider**

International Construction Consortium (Pvt) Ltd, has been recognized by the Sri Lankan construction industry as an innovative engineering solution provider, one that enables fast & economical construction. With focus on quality, we obtained the best equipment and latest technology from the industry leaders to assure a quality product portfolio at the highest standards.

## **Fastest Timber Flooring Solution in Sri Lanka!**

ICC Prefinished Timber Flooring is a revolutionary flooring method which consists of an easy DIY installation system, bringing you a range of modern flooring solutions preventing the inconvenience of conventional installation methods, by employing the 'ELASTILON' technology.

## **Elastilon Method**

Elastilon® is an installation system consisting of a series of self-adhesive mats for Tongue & Groove (T&G) wooden flooring. It gives a permanent bond to the back of the floor board, solves the problem of moisture and pressure cupping for professional installers without the use of paint-on moisture barriers or adhesives.



## Introducing DIY Installation with Elastilon

Using an underlay to install Timber flooring is becoming a popular method and more people are discovering its advantages. When it comes to underlays with many building materials - the variety on the market is substantial, ranging massively in both quality and price. The underlay used by ICC TIMBER is called Elastilon, which is considered as one of the high-spec underlays available. Elastilon is manufactured in Netherlands, which has been tested & proven globally. Currently used globally by a larger customer base which certainly proves its global worth.

### • 5X Faster

There are many advantages in using Elastilon technology. With Elastilon method used for installation, ICC TIMBER is 5 times faster than the conventional flooring installation and considered as the fastest and most convenient timber flooring solution in Sri Lanka.

### • Hassle Free Installation

ICC TIMBER requires No Cutting, No Sanding, No painting, No nailing or messy installation. Its entirely Pre-finished. With Elastilon system installation has become much easier and considered as a DIY system (Do It Yourself)

### • Durable and Strong

ICC TIMBER reacts favorably to any movement within the floor due to its slightly elasticated structure which holds the timber planks in place without putting too much strain on the underside of the timber plank. Elastilon is laid in between the ICC Pre-finished timber flooring and the sub floor which brings in additional acoustic measures to reduce sound travel, making it perfect for any place or any space.





## Conventional Method

### What is "Prefinished?"

A prefinished timber floor is a flooring which has been treated, coated and sealed off site in a factory and not during on site floor installation.



## Elastilon Method

## Why use ICC Prefinished Timber flooring?

### 1. You can walk on your floor the same day.

ICC Timber planks are "Prefinished" which has been treated, coated and sealed in a factory so you don't have to wait for the coating to dry to walk on your newly installed timber floor.

### 2. There is no mess!

Unlike conventional timer flooring, prefinished timber requires no sanding on site which means your home will be Dust Free!

### 3. No chemical Smell.

In conventional timber flooring installation, the raw timber planks will be coated and polished in your home leaving a strong odour for weeks. ICC Prefinished timber flooring has no fumes as its entirely Prefinished and brought to site.

### 4. You won't need to move out of your home during installation.

You won't need to move out of your home during installation. conventional timber floor planks need not only time to settle but also time for the coatings to dry. This means you're forced out of your home, which is not the case with ICC Prefinished timber flooring.

### 5. Scratch resistance is much higher with more layers of coating.

ICC Timber flooring planks are prefinished and heavily coated. Hence, increases the scatch resistance.

### 6. No acclimatizing needed.

As mentioned above, raw solid timber flooring will need up to 6 weeks to acclimatize to the location. ICC Prefinished Timber floors are kiln-dried in a factory to the perfect moisture level which is ready to install.

### 7. No nail holes in your floor.

ICC Prefinished Timber planks will not need to be nailed down to prevent movement.

### 8. Hypoallergenic flooring solution

ICC Prefinished Timber goes through an eco friendly preservative treatment and coated with non toxic paint before being fixed on your floor, repelling your flooring from moisture, dust, mites, germs, pet dander, and other allergens.

## Profitability at it's pinnacle

1

Made to Measure



Ready-made

Planks are made to measurements specifically

2

Precise



Factory Finished Product

Planks are treated and finished in the factory

3

Higher Productivity



250-300 ft<sup>2</sup> per Labor Day

Eliminate unnecessary costs

4

Faster Installation



5X faster than conventional method

Adopting Elastilon System from Netherlands

5

Peace of Mind



Cleaner Jobsite

No Sanding, No Cutting, No Nailing, No Painting at site

6

Convenient



Can lay on any surface

Upgrade your tile, cement, carpet floor anytime

7

No skilled Labor needed



DO IT YOURSELF Solution

Install your floor just in 4 steps by yourself!

8

No onsite preparations



Dust free Prefinished Timber Planks

(Cut, Polished, Coated)

## Quality meets technology

As the most innovative General Contractor in Sri Lanka, with over 4 decades of experience and trust in the industry, International Construction Consortium Pvt Ltd introduces ICC-TIMBER – giving you a selection of modern prefinished flooring solutions that lasts a lifetime.

Taking a step further into the future, we aim to revolutionize flooring methods using DIY installation systems, and to provide you with a range of modern yet convenient prefinished timber flooring solution

## Designed for Perfection

A wooden finish must be solid, durable and cost effective, yet aesthetically pleasing and tasteful.

ICC-TIMBER is designed to bring the features of the forest to your floor. These features are matched with finishes for a classic, timeless look and feel; palettes of contemporary colours provide a platform for any modern interior.

## The finest in the Industry

ICC TIMBER is sourced from sustainable plantations, both locally and internationally and manufactured at our own state of the art facility in Bandaragama, Sri Lanka. The Factory equipped with pressure vessels to carry out in-house pressure impregnation treatments and Dehumidifying Kiln Systems to condition the Timber with 10,000 sqft production capacity per month to the highest standards in Sri Lanka, ensuring the finest product to your floor.

### OUR RANGE



TEAK










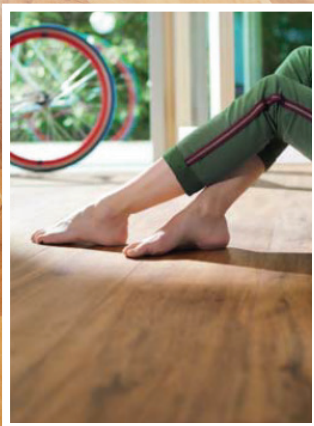
KUMBUK



PARA MARA

	Conventional Timber Flooring	ICC Prefinished Timber on Elastillon
Sub floor Requirement	Timber Battens with infilled bed	"Any Solid floor with a level difference of +/- 3mm - Tiles, Titanium, Cement Rendered, etc"
Speed (2 Man power Days per 200 sq.ft)	7 days	1 day
Dust Generation	Very High	Nil
Noise Generation	Very High	Low
Odour	High	Nil
Mobility	Nil	High ( Can be removed any time)
Durability	High	Very High
Quality	Varies	Standard

Layer	Wood Flooring Construction	Coating Description	Purpose
6 <sup>th</sup> Layer		UV Cured Roller Coated 2nd top Coat	Scratch resistant, provides excellent visual experience, even and smooth touch
5 <sup>th</sup> Layer		UV Cured Roller Coated 1st top Coat	
4 <sup>th</sup> Layer		UV Cured Roller Coated intermediate Coat	Strengthens the coating structure, enhances wear resistance, blocks moisture movement
3 <sup>rd</sup> Layer		UV cured Roller coated sealer & hardener	
2 <sup>nd</sup> Layer		UV cured Putty application	Fills the unevenness in timber planks and provides a uniform surface
1 <sup>st</sup> Layer		Water Based stain	Stains the timber with the required colour
18mm Timber		Kiln Dried, Moisture content <12% Boron Borax Treatment	Seasoned for long-term weather changes



### WARM TO THE TOUCH

The use of carefully selected, healthy materials -structured in multiple layers- are what makes ICC-TIMBER flooring so warm and pleasant to the touch.



### EASY TO CLEAN

With our clean & green care series, the regular, efficient and gentle care of ICC-TIBER Design Floors is child's play.



### RESISTANT TO WATER

ICC-TIMBER series are perfect for kitchens and all areas of living that make a completely waterproof flooring necessary.

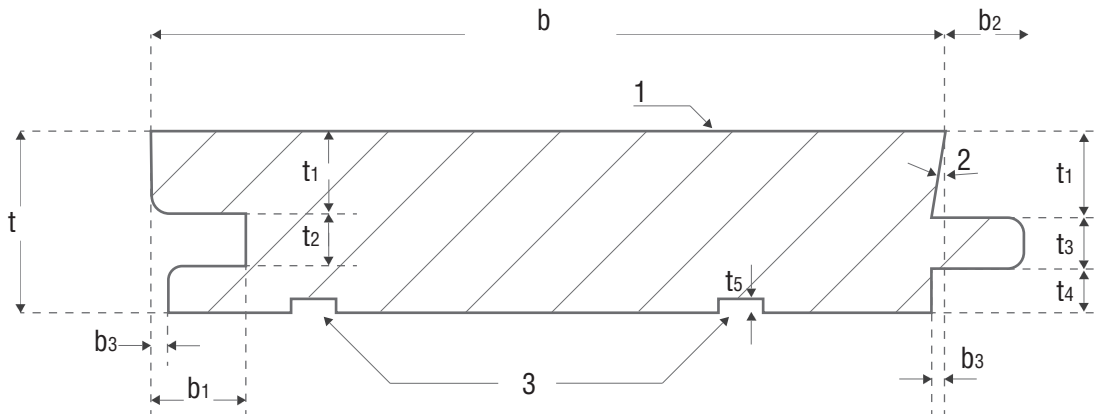
# ICC Prefinished Timber Flooring

We are the first in country to manufacture a 100% natural Prefinished timber plank. The species of timber is chosen based on property of timber to withstand variances in atmospheric conditions, ensuring longevity in consistent performance.

<b>Type of Product</b>	Prefinished Timber Plank
<b>Purpose of Use</b>	Timber flooring, wall paneling etc
<b>Types of Timber</b>	<b>Species</b> Teak (Tectona grandis / Jatus grandis) Kumbuk (Terminalia arjuna / Pentaptera glabra) Paramara (Samamea saman / Albizia saman) Other suitable timber species
<b>Chemical Preservation</b>	<b>Species</b> Saturated with Boron Borax Solution through Vacuum Pressure impregnation method (10bar)
<b>Conditioning</b>	Moisture reduced up to 9-15% (as required) through Dehumidifying Kiln
<b>Typical Plank Dimension</b>	<b>Length</b> 600mm and or 900mm <b>Width</b> 100mm and or 125mm <b>Thickness</b> 18mm
<b>Plank Make</b>	Toungue and Grooved (4 sides)
<b>Edge</b>	Square edge or Bevel edge
<b>Finish</b>	6 layers of coating including of Putty, Sealer and Top Coat



# Typical plank Cross-Section



Thickness (t)	18 ± 0.2	Depth of the groove (b1)	7 + 0.3
Length (l)	600 ± 0.5	Thickness above the tongue (t1)	7
Width (b)	100 ± 0.2	Thickness of the tongue (t3)	6
Thickness above the groove (t1)	6.8	Thickness below the tongue (t4)	5
Width of the groove (t2)	6.4	Width of the tongue (b2)	5
Thickness below the groove	4.8	Under cut (b3)	0

Process	Standard and Checking Criteria
<b>Selection of Logs</b>	BS 5756:2007 VISUAL GRADING OF HARDWOOD
<b>Primary and Horizontal Sawing</b>	EN 13226:2003 WOOD FLOORING – SOLID PARQUET ELEMENT WITH GROOVES AND/OR TOUNGUES
<b>Chemical Preservation</b>	BS 8417:2003 & 8417:2011 Preservation of wood - code of practice
<b>Moisture Control</b>	EN 13226:2003 WOOD FLOORING – SOLID PARQUET ELEMENT WITH GROOVES AND/OR TOUNGUES
<b>Plank Sizing</b>	EN 13226:2003 WOOD FLOORING – SOLID PARQUET ELEMENT WITH GROOVES AND/OR TO TOUNGUES
<b>Plank Sizing</b>	A&I Coating Specification 13386 AS 1580.403.2-2006 and Paints and Related Materials - Methods of Test

# Properties of ICC Prefinished Timber Flooring

## Performance at 12% moisture content

Name	Scientific Name	Density (Kg/m <sup>3</sup> )	Modulus of Elasticity, MOE (N/mm <sup>2</sup> )	Modulus of Rapture, MOR (N/mm <sup>2</sup> )	Compression Parallel to Grain (N/mm <sup>2</sup> )
Teak	Tectona Grandis	720	11,560	88	44
Kumbuk	Terminalia arjuna	760	12,120	92	47
Paramara	Samanea saman	600	9,900	75	37



## Our Facility

Our state of the art timber flooring facility located in Bandaragama, Sri Lanka. Spanning across 2 hectares of land, where the factory consists of three buildings, a drying facility and a treatment plant.

## Manufacturing Process

Manufacturing begins with the primary process of sawing. The selected logs are sent through four specialised machines which saw edge, rip and crosscut timber to the necessary size specifications. Next, within our treatment facility, chemical pressure impregnation treats the timber, ensuring it is resilient to termites. Properly treated seasoned timber becomes immune to insect attacks.



## Pressure Impregnation

Boron is a preservative used to protect the borer-susceptible sapwood of some hardwood species. The active ingredient of boron-based timber treatment occurs naturally, and non toxic to mammals and not considered a threat to the environment. Addresses the issue with related to

- Termites
- Infestation
- Fungai



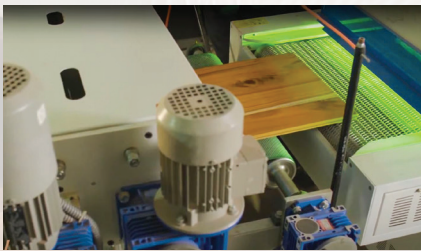
## Drying Process

Once the timber is treated, it is dried in an ultra-modern dehumidifier kiln that reduces the moisture of the wood between 8% and 12%. The kiln process involves the drying of wood in a chamber where air circulation, relative humidity and temperature can be controlled so that the moisture content of wood can be reduced without having drying defects.



## Timber Plank Preparation

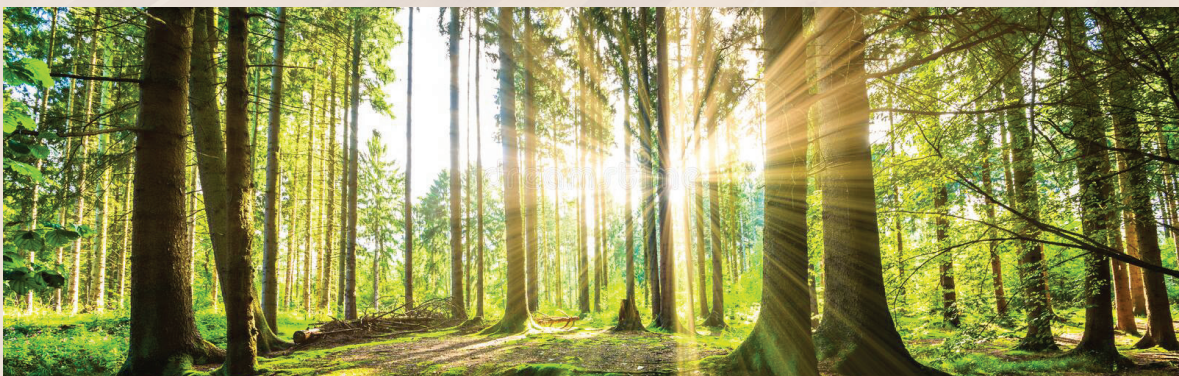
The seasoned timber then moves on to the processing unit, where secondary sawing takes place. At this stage the tongue and groove will be created, along with cross cutting and heavy-duty sanding.



## Paint and Finishing Line

Timber is sanded, cleaned, stain brushed, sealed and cured. The result is a floor plank with the finish of either gloss or matte depending on your requirement, which is ready to be installed at your home.

The quality of our product is of utmost importance to us, and we adhere to stringent quality controls at various stages of the manufacturing process. In the timber flooring production, there are several factors to be considered to ensure good quality. Product selection of proper timber logs with minimum defects, proper drying, chemical preservation and moisture controlling are considered very important at primary stage.



## Sustainable Plantation

Being mindful that our industry is dependent on the environment resource. Our wood are from the State Timber Corporation. We also take measures to replenish and safeguard our forests by setting aside land for the continuous growth of new trees. In addition, we recycle our manufacturing waste materials and take measures to ensure pollution from our facility is at a minimum at all times.



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