



## LION Floor™

### Introduction

**LION Floor™** has been specifically designed for use in the flooring industry to meet the requirements of a fabricated underlay as defined in BS 8203:2017 and as recommended by the CFA.

**LION Floor™** is a hard fibreboard type HB.H with a smooth face and a mesh pattern reverse.

**LION Floor™** has been oil tempered with bio-oil. Tempering with oil gives the board increased moisture resistance and higher bending strength values.

**LION Floor™** is also available as a pre-conditioned board. This ensures that the board has a moisture content of between 8 – 10% and therefore comparable with similar fabricated underlay grades of plywood. BS8203:2017 also refers to pre-conditioned boards in section 7.3.1, and this process eliminates the requirement to wet the boards on site.

**LION Floor™** is a homogenous engineered panel made purely from wood, using only by-products from the wood processing industry to produce our boards - wood which might otherwise have been used as bio-fuel.

In addition to our green and sustainable benefits, **LION Floor™** can be recycled and as our product is also biodegradable, this helps strengthen our environmental sustainability.

Unlike some other fabricated underlays, we can 100% guarantee that this board will not have any core gaps or veneer overlaps which could risk the integrity of the underlay.

### Specification

<b>Product identification code</b>	OTSA, OTSF	
<b>Thickness [mm]</b>	4.8 / 6.0	
<b>Standard sizes [mm] and standard pallet sizes</b>		
1220 x 1830/2440/2745/3050	4.8 mm	75 sheets
	6.0 mm	50 sheets
610 x 1220	4.8 mm	300 sheets
	6.0 mm	200 sheets
915 x 1220	4.8 mm	150 sheets
	6.0 mm	100 sheets
<b>Packing</b>	Disposable wooden pallet bottom Plastic bands <i>Plastic hood for pre-conditioned boards</i>	

### Technical properties and performance at the time of dispatch from factory

Property	Unit	Thickness	
		4.8 mm	6.0 mm
Density	kg/m <sup>3</sup>	≥ 900	
Dimensional tolerances			
<i>Thickness</i>	mm	± 0.5 mm	± 0.7 mm
<i>Width / length</i>	mm	± 2,0 mm/m, max ± 5 mm	
<i>Squareness</i>	mm/m	2,0 mm/m	
<i>Edge straightness</i>	mm/m	1,5 mm/m	
Bending strength	N/mm <sup>2</sup>	32	30
Internal bond	N/mm <sup>2</sup>	0.60	0.30
Internal bond after boil test	N/mm <sup>2</sup>	0.30	0.25
Swelling in thickness (24h)	%	20	20
Release of Formaldehyde	Class	E1	
Moisture content	%	4-9 %	
Moisture content, <i>pre-conditioned board</i>	%	8-10 %	

Applicable Standards	BS8203:2017; EN 622-1; EN 622-2; EN 13986:2004+A1:2015
Wood	Process waste from wood industry – predominantly spruce
Core	Homogenous engineered board, with a guarantee of no core gaps
Country of Origin	Produced in Finland
CE -mark	According EN 13986:2004+A1:2015 <i>Type HB.H. General purpose board for use in humid conditions</i>
Chain of Custody	FSC® certificate no. DNV-COC-001453 PEFC certificate no. 89768-2010-AE-FIN-FINAS
Size Options	Large variety of standard sizes are displayed above, but special sizes are available subject to minimum volume
Recycling	It may be possible to re-use the boards at the end of their original application, but this will depend upon what has been applied/fixd on top of the boards.  At the end of their natural life, boards can be easily, economically and safely disposed

### Chemical composition

Wood material for oil tempered boards is softwood, spruce and pine. The phenolic resin (1 - 2%) is used to bond the board and paraffin dispersion as hydrophobic chemical.

Wood 96-97 %  
Resin < 2 %  
Paraffin < 1 %  
Aluminium sulphate < 1 %

Resin and tempering oil are hardened completely during manufacturing process and do not release chemicals when these fibreboard products are used.

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## Re-use and disposal

If the boards are intact and dry, wood fibre boards may be used again on a case-by-case basis. Re-use is the most popular way of 'recycling' wood fibre boards.

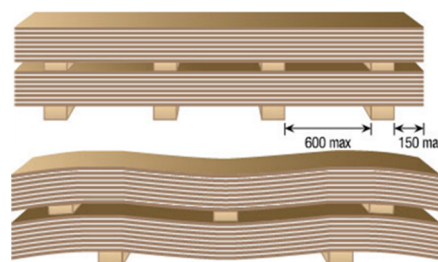
Because wood fibre boards are mainly clean natural wood, they can be disposed of by burying in the ground, composting, taking to landfill or burning.

(Puuinfo Ltd., Wood fibre board, accessed June 12<sup>th</sup> 2017, <http://www.woodproducts.fi/content/wood-fibre-board>)

## Handling and Storage

Panels should preferably be stored in an enclosed dry building. Where temporary storage outside cannot be avoided, then stacks should be covered with waterproof but vapour permeable sheeting, keeping all panels on raised bearers to prevent contact with the ground, water or vegetation. Any protective wrapping should be kept in place as long as possible prior to conditioning for use.

Panels should be stacked flat on a level surface with all four edges flush. The ideal base is a close boarded or slatted pallet. If this is not possible the panels should be carefully stacked on battens of equal thickness at centres not exceeding 600 mm.



Stacking on edge should be avoided whenever possible. Where space will only permit edge stacking then the edges should not be permitted to come into direct contact with the floor to avoid possible moisture pick-up or damage to the edges.

Panels should not be leant against walls but supported by a braced, purpose made rack using thick (>18 mm) base and back panels.

## ATTACHMENTS

*Declaration of Performance No. FF2CPRHB.H*

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