



# TECHNICAL DATA SHEET

NOVEMBER 2018

**TONGUE &  
GROOVE** <sup>12</sup>  
KOPINE

**ULTRA  
LOCK** <sup>12</sup>  
KOPINE



[kopine.co.nz](http://kopine.co.nz)

# TECHNICAL DATA SHEET

## PRODUCT DESCRIPTION

Kopine Flooring Systems - Ultralock™12 and Tongue & Groove12 - are made from high density particleboard designed to offer superior stiffness for maximum span capability and weather resistance up to 12 weeks during construction.

Kopine Flooring Systems are cost effective, simple to lay and available in two jointing options. The fully glued joint can be walked on after two hours of installation.

Kopine Ultralock™12 is a unique patented system which uses fully glue bonded edges to form a continuous flooring membrane eliminating the need for nogs or dwangs under joints. The use of Gorilla Grip 1 Hour Cure allows for multiple sheets of Kopine Ultralock™12 to form into a continuous panel, reducing the "squeaks, creaks and groans."

The glue bond also provides an effective seal against moisture into the sheet edges during construction. This significantly reduces edge peaking and the risk of a squeaky floor.

Kopine Tongue and Groove is a more traditional tongue and groove method of jointing but uses a glue bond in addition to the black PVC tongue to produce a strong joint which significantly reduces edge peaking compared to the traditional glueless systems.

## INTENDED USE

Kopine Flooring Systems are intended for use as flooring in residential buildings designed and constructed within the scope of NZS 3604:2011 Timber Framed Buildings.

Kopine Flooring Systems are suitable for use as a flooring diaphragm within the scope of NZS 3604 and are Codemark compliant.

## LIMITATIONS

Where Kopine Flooring Systems are used outside the scope of NZS 3604 or where concentrated loads exceed 180 kg or uniformly distributed loads exceed 200kg/m<sup>2</sup> a suitably qualified professional must be consulted.

Kopine Flooring Systems are suitable for residential flooring applications with a maximum frame spacing of 600mm centres for a maximum load of 1.8 kN live load.

Live loads above 2.0kPa / 1.8 kN are required to be specifically designed using the properties table contained in the Kopine 'Installation Guide and Technical Specifications' for Ultralock™12 and Tongue & Groove12 Flooring.

Kopine Flooring may be exposed to weather for up to 12 weeks. However, during construction all effort must be made to prevent ponding of water on the surface.

Protective membranes or coatings must not be used on the top or bottom of the floor while exposed to weather during construction.

For full guidance and information for specifying and installing Kopine Flooring Systems, please refer to the online video or installation instructions for Ultralock™12 and Tongue & Groove12 Flooring on the Kopine website, or download the 'Installation Guide and Technical Specifications' document from the resources page of the website.

## MANUFACTURE

Kopine Ultralock™12 and Tongue & Groove12 particleboard flooring is made in New Zealand by Kopine, a business unit of NZ Panels Group. Kopine is an engineered reconstructed wood panel manufactured by bonding pine wood particles with a melamine urea formaldehyde resin using a combination of heat and pressure.

It is manufactured at the Kopu plant using untreated wood shavings supplied from timber sawmills. These sawmills use plantation-grown, radiata pine timber sourced from sustainable forests.

## AVAILABLE SIZES

Product	Panel size	Thickness	Weight per sheet (approx.)
Ultralock™12	2400 x 1200 mm	20mm	41kg
Ultralock™12	3600 x 1200 mm	20mm	61kg
Tongue & Groove12	2400 x 1200 mm	20mm	41kg
Tongue & Groove12	3600 x 1200 mm	20mm	61kg



## COMPLIANCE: NEW ZEALAND BUILDING CODE / CODEMARK

Both Kopine Tongue & Groove12 and Ultralock™12 flooring have received Codemark compliance and this includes the glue system provided at no extra charge when Kopine board is purchased.

## CLAUSE B1 STRUCTURAL:

Kopine Flooring is manufactured in accordance with AS/NZS 1860 and as such complies with the structural requirements for sheet flooring of Clause B1/ 3.1, 3.2, 3.3 and 3.4 of the New Zealand Building Code.

The subfloor must be designed and constructed in accordance with NZS 3604 or designed by a suitably qualified professional.

## CLAUSE B2 DURABILITY:

When used installed in accordance with the supplied 'Installation Guide and Technical Specifications' document, and in accordance with NZS 3602, Kopine Flooring Systems will meet the durability requirements of the New Zealand Building Code under Clause B2/3.1a.

## HANDLING AND STORAGE

Kopine Flooring panels must be stored in dry interior conditions. Use a minimum of three bearers for a 2400 x 1200 panel and four bearers for 3600 x 1200 panels – with bearers laid underneath the full width of the panels, keeping them flat at all times. Avoid leaning sheets against walls. Store sheets where construction traffic and construction activity will not damage sheets. Treat sheets as a finished product and avoid dragging sheets across other surfaces.



## SUSTAINABILITY

As a leader in the panel industry Kopine adopts and promotes sustainable business practices designed to minimise our national and global environmental impact.

Both Kopine Tongue & Groove12 and Ultralock™12 flooring have Environmental Choice NZ accreditation in the flooring category.

Kopine continues to search out alternative products to meet the growing needs of our environmentally conscious customers, while creating processes in our manufacturing plant that are mindful of the environment for future generations.

### SOME OF THE SUSTAINABLE PRINCIPLES INCLUDE:

- › Donating sawdust chip leftovers to local schools and farmers.
- › Reduction in annual use of diesel.
- › Supplying flooring that meets E1 formaldehyde emissions in line with AS/NZS 1860 Standard.
- › Reduction in the gauge of polyester film, making it thinner and stronger, and recyclable.
- › Control of manufacturing waste such as separating waste for recycling.
- › Endeavouring to buy any goods locally to cut down on the number of travel miles needed for them to reach the plant.

## HEALTH & SAFETY

Kopine Ultralock™12 and Kopine Tongue & Groove12 flooring should be handled in accordance with the Kopine Particleboard MSDS Materials Safety Data sheet (MSDS). The MSDS is available online from [www.kopine.co.nz](http://www.kopine.co.nz).

Wood dust and dust from resins used in the manufacture of particleboard are known health hazards. When machining particleboard sheets, including drilling, planing routing and sawing, a suitable class P1 or P2 respirator should be worn along with non-fogging safety glasses.

To avoid cuts from sharp edges suitable protective gloves should be worn.

Kopine Flooring sheets meet formaldehyde emission Class E1 – less than 1.5mg/litre.

## WARRANTY

Kopine offers a 50 year warranty on its Ultralock™12 and Tongue & Groove12 flooring provided it is used as the Installation Guide states, in a tradesman like manner and in accordance with relevant Standards and New Zealand Building Code requirements.

Download the full warranty wording from the Kopine website at [www.kopine.co.nz](http://www.kopine.co.nz).

## HANDY REFERENCES (available at [www.kopine.co.nz](http://www.kopine.co.nz))

- › [Kopine Flooring Systems Installation Guide and Technical Specs](#)
- › [Kopine Particleboard MSDS](#)
- › [Environmental Choice NZ Certificate](#)
- › [Codemark Certificate](#)

## TECHNICAL SUPPORT

Further information and technical support is available by contacting Kopine on 0800 866 678 or emailing [sales@kopine.co.nz](mailto:sales@kopine.co.nz).

This publication was issued in November 2018. Please ensure that you are using the latest publication by contacting Kopine or downloading the latest Technical Data Sheet from [www.kopine.co.nz](http://www.kopine.co.nz).

Kopine, a business unit of New Zealand Panels Group, reserves the right to make changes to information in this publication without notice.