



ITI Timspec

Innovative Timber Ideas



LP TopNotch Guard OSB
**INSTALL AND
 MAINTAIN GUIDE**

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I. GENERAL

I.1. PURPOSE OF GUIDE

This guide provides advice on handling, installing and maintaining LP TopNotch Guard OSB panels.

I.2. IMPORTANT DOCUMENTS

This guide must be read in conjunction with the:

- LP TopNotch Guard OSB pass™
- LP TopNotch Guard OSB warranty.

I.3. SKILLS REQUIRED

To install LP TopNotch Guard OSB panels the installer must, at a minimum, be a competent DIYer.

I.4. FOR MORE HELP

Technical assistance is available at sales@ititimspec.co.nz.

While all reasonable efforts have been made to ensure the accuracy of information provided, this is a guide only. It may be subject to change.

I.5. FOR OUR WARRANTY

Refer to www.ititimspec.co.nz.

I.6. DESCRIPTION

LP TopNotch Guard OSB is an oriented strand board (OSB) engineered structural wood panel. It is manufactured from rectangular wood strands blended with thermal-set, waterproof adhesives and arranged in cross-directional layers that are pressure-bonded. The LP Topnotch Guard OSB 350 panels are boron-treated to H3.1. The LP Topnotch Guard OSB 100 panels are untreated.

The panels also achieve a material group number of 3.

The panels are manufactured from wood from Sustainable Forestry Initiative certified programmes.

The panels have tongue and groove edges and a moisture-resistant edge seal. The panels also incorporate a RainChannel® notch system that allows water to drain quickly from the surface during the construction phase.

The panels are 1220 x 2440 x 18 (W x L x T, mm).

I.7. ITI TIMPSEC ASSURANCE STATEMENT

For scope, limitations and assurance refer to the ITI Timspec LP TopNotch Guard OSB pass™.

2. INSTALLATION

2.1. HEALTH & SAFETY

Take all necessary steps to ensure your safety and the safety of others:

- › ensure adequate ventilation or mechanical dust extraction when cutting or drilling
- › ensure the panels are well supported when cutting
- › wear appropriate safety equipment, clothing and footwear
- › use all tools in accordance with the relevant instruction manuals
- › clear the work area of any obstructions before work starts
- › ensure edge protection and/or appropriate scaffold is installed where working at height.

For further information refer to:

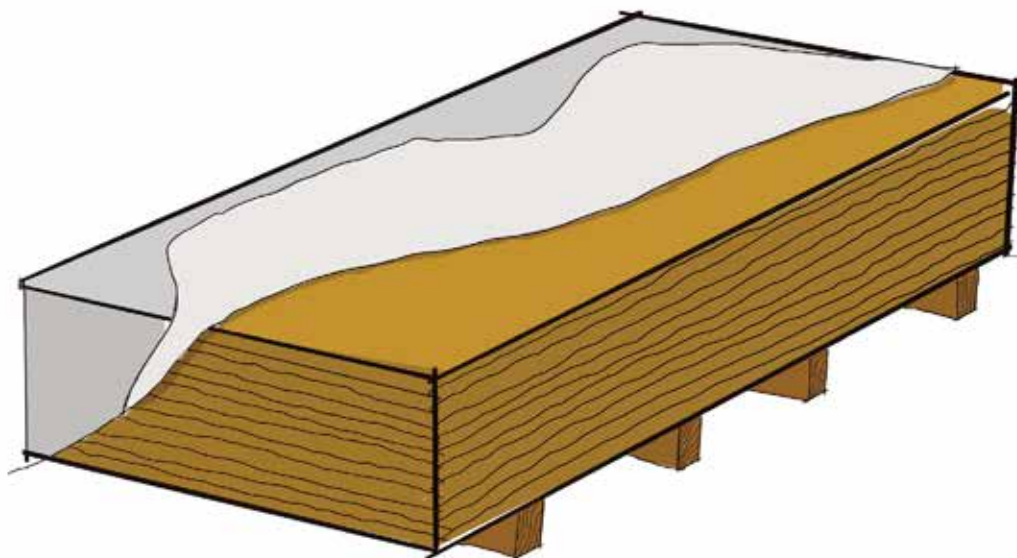
- › WorkSafe. [7/2018] *Small Construction Sites, The Absolutely Essential Health and Safety Toolkit.*
- › WorkSafe. [12/2016] *Health and Safety at Work, Quick Reference Guide.*

2.2. HANDLING & STORAGE

Take care when transporting, handling and storing LP TopNotch Guard OSB panels to avoid damage to the panels.

Unload panels by hand and carry on edge. If unloading mechanically, ensure there is a minimum of two well-spaced supports or ensure support with a pallet to avoid excessive bending or sagging. A spreader bar may be needed when using a crane or hiab.

If stored on-site, stack panels flat on a dry surface and at least 150 mm off the ground. Cover the panels.



STORAGE

Ensure the area where the panels are stored is dry, well-ventilated, out of direct sunlight and away from any heat source.

2.3. TOOLS & OTHER PRODUCTS REQUIRED

2.3.1. Tools

- fine-tooth hand saw or power saw
- jig saw
- drill
- pin or nail gun
- sandpaper
- hole saw and speed bits.

2.3.2. Other products

- adhesives (compatible with treatment hazard class H3.1 boron for LP Topnotch Guard 350 panels)
- fixings
- fillers.

2.4. CHECK FRAMING SUPPORT

Ensure the proposed location of use falls within the allowed scope and limitations of the pass™. Select the appropriate panel (LP Topnotch Guard 100 or LP Topnotch Guard 350) for the use.

Confirm that the sub-floor framing allows for a minimum crawl space of 450 mm from the underside of the joists to clear ground.

Confirm that the framing has sufficient structural strength.

Confirm that the framing is level and true to plane.

Confirm that the underside of the LP Topnotch Guard OSB has a minimum clearance of 550 mm from clear ground.

Joist spacings must be no more than 600 mm centres.

If possible, check the moisture content of the framing especially where there is evidence that the framing has been allowed to get wet. The framing members should have a moisture content of no more than 18 %.

2.5. SELECT FIXINGS

Hot-dipped galvanized fastenings or stainless steel fastenings (in areas prone to water splash) are recommended.

Panels may be fixed using the following options:

2.5.1. Timber framing

- 60 x 2.8 mm flat head or jolt head nails with panel adhesive
- 65 x 2.87 mm D head, ring shank mechanical gun nails (set depth to 1 mm below surface)
- 10 g x 45 mm countersunk, coarse thread woodscrews (stainless steel for wet areas prone to splash).

2.5.2. Steel framing

- Tek self drilling 45 mm 10 g screws.

2.6. PREPARE PANELS

Cut panels using a fine-tooth hand or power skill saw.

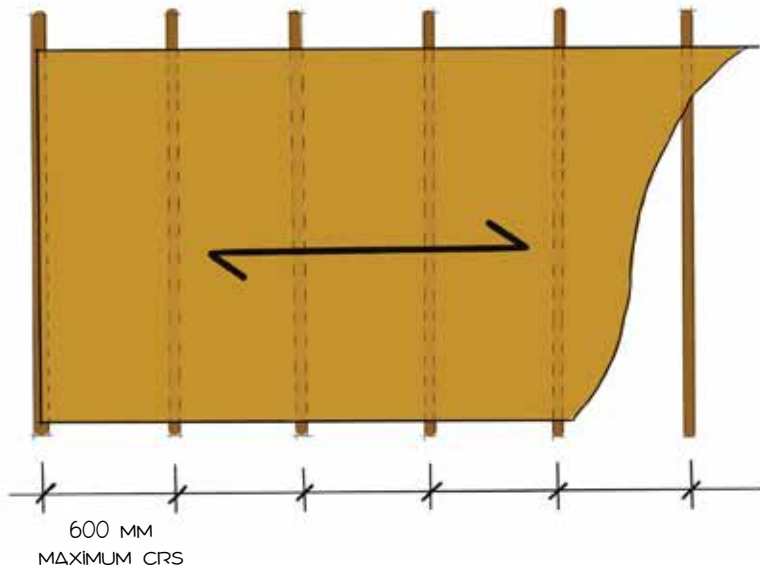
Where panels are to be fixed with screws, pre-drill 2.4 mm pilot holes to prevent splitting. Drill the holes approximately 2 mm–3 mm deeper than the screw depth. Do not overtighten screws as it will reduce their holding strength.

2.7. INSTALL FLOORING

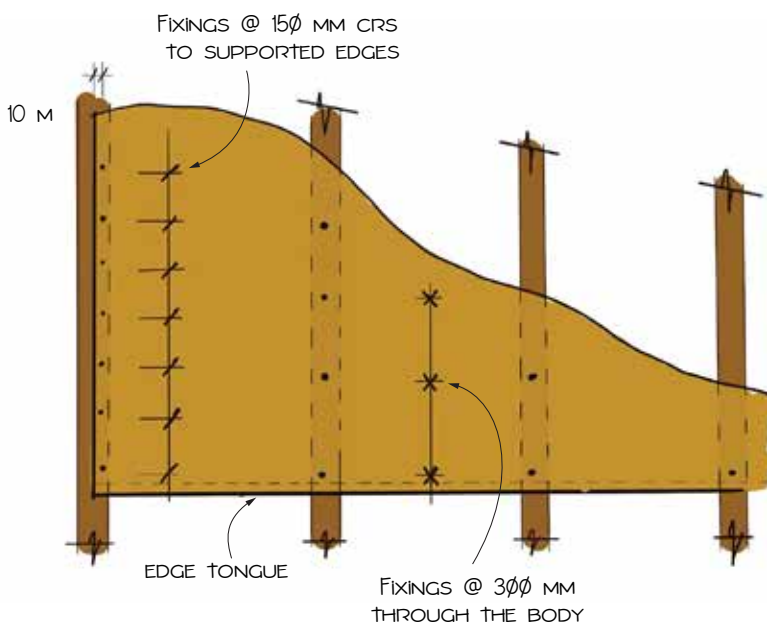
Ensure the panels are laid perpendicular to the joists in a staggered pattern. Allow 2 mm–3 mm expansion gap between panel joints allowing for movement.

It is recommended that all panel edges are supported. Alternatively, and as a minimum, where the panel is not supported directly over a joist it is recommended that the tongue and groove edge is within 150 mm of the support.

Fixings are required at 150 mm centres, no less than 7 mm from the panel edge around the perimeter and a maximum of 300 mm centres through the body of the panel.

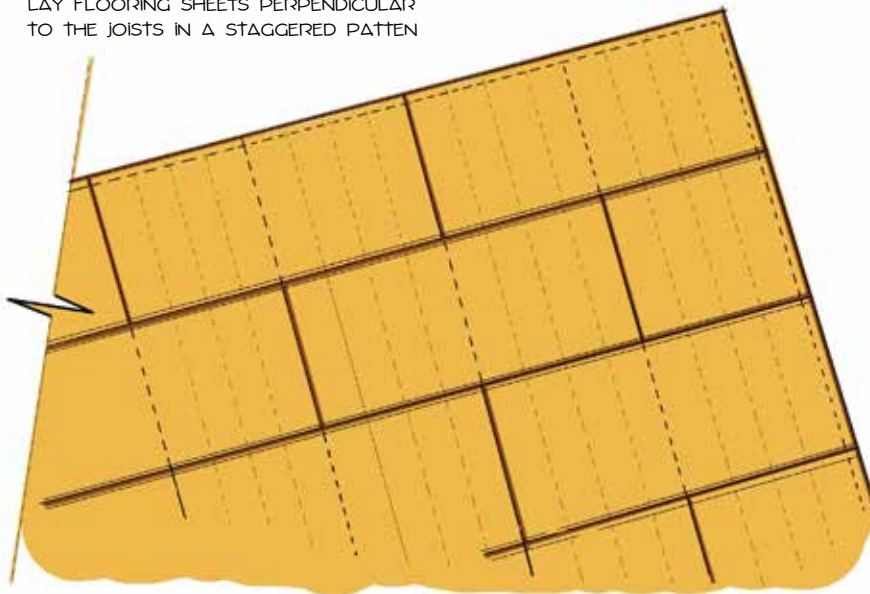


TYPICAL JOIST SPACING



TYPICAL FIXING LOCATION

LAY FLOORING SHEETS PERPENDICULAR
TO THE JOISTS IN A STAGGERED PATTERN



TYPICAL SHEET LAYOUT

2.8. FINISHING

Once installed, fill all visible screw or nail holes with a flexible grade wood filler and then lightly sand.

LP TopNotch Guard OSB panels must be sealed or overlaid with:

- a protective floor covering (tile, carpet, etc.), or
- paint (not water-based), or
- a compatible membrane system, or
- a high quality polyurethane.

Where the panels are used in areas prone to water splash, a waterproof membrane or impervious floor covering must be used.

If during installation LP TopNotch Guard OSB panels are allowed to get wet, flaking can occur to the top layer. This is where the top layer is separated from the second layer only. This has no impact on the structural integrity or performance of the LP TopNotch Guard OSB panels.

A smooth surface can be created by removing the loosened area with a chisel, router or electric sander and filling the indentation with a filler such as a 2 pot epoxy resin or a builders bog. Where the 'flaked' area is greater than 10 % of the board, replacement of the panel is recommended.

3. MAINTENANCE

Under normal conditions, LP TopNotch Guard OSB panels require no maintenance providing that the protective covering has been maintained.

If water damage occurs to an area where LP TopNotch Guard OSB panels have been used, ensure the area is allowed to dry before replacing any covering or coating.