IBS
SUSTAINABLE BUILDING PRODUCTS

V-Groove Ply
Installation Guide

THREE GREEN TICK APPROVED

OCTOBER 2021

Contents

NZBN 9429000097253

IBS V-Groove Untreated Ply Product Details			
L x W x Thickness (mm)	**Weight (kg)**	**IBS Product Code**	**GTIN**
2400 x 1200 x 9	14	VGAU092412	09421028767842
2400 x 1200 x 12	18.7	VGAU122412	09421028762533
IBS V-Groove H3.1 LOSP Treated Ply Product Details			
2400 x 1200 x 9	14.2	VGAT092412	09421028767859
2400 x 1200 x 12	18.9	VGAT122412	09421028762526

Contact us for more information or to talk to our team.

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1. Introduction

This guide provides advice on handling, installing and maintaining IBS V-Groove Ply.

1.1 What is V-Groove Ply?

IBS V-Groove Plywood is a high-quality plywood panel that has the appearance of a timber tongue and groove lining. It has a clean, smooth face with a beautiful finish.

The product is a cost-effective, beautifully finished panel which has a V-groove at 100mm centres to give the appearance of the traditional tongue and groove timber lining. Our V-Groove H3.1 LOSP Treated Ply can be used externally such as for soffit linings.

IBS V-Groove Plywood is available in both 9mm and 12 mm thickness and our 12 mm thick panels feature ship lapped join for easy installation. Sheet size is 2400x1200.

1.2 Benefits of V-Groove Ply

IBS V-Groove is a LFE panel that offers Super E0 low formaldehyde emission, WBP-A-Bond glue line, thickness calibration, and a full 150 grit sanding. It is also certified according to international standards such as European CE-EN 13986, US PS1-09, and Japanese JAS standards by Arauco under their strict quality control standards.

Our “IBS Green Tick Approval” standard means that IBS V- Groove is an environmentally friendly, safe, quality product and comes from a sustainable reliable resource.

More benefits:

- Strength of plywood with natural timber finish
- Impact resistant
- Lightweight and easy to install and use
- Water resistant glue bond
- Tongue and groove edge profile

1.3 V-Groove Ply Intended Use

V-Groove H3.1 LOSP Treated Plywood uses:

- Sheltered exterior applications
- Soffit lining

V-Groove Untreated Plywood uses:

- Interior walls
- Real wood panelling
- Ceiling linings
- Feature walls
- Partitions
- Back linings to exposed rafters
- Commercial interior
- Shop fitouts.

1.4 Important Documents

This guide must be read in conjunction with the:

- IBS V-Groove Ply warranty.

2. Best Practice

2.1 Skills Required

To install IBS V-Groove Ply, the installer must, at a minimum, be a competent DIYer.

2.2 For More Help

Technical assistance is available at info@ibs.co.nz. While all reasonable efforts have been made to ensure the accuracy of information provided, this is a guide only, and it may be subject to change.

2.3 For Our Warranty

Refer to www.ibs.co.nz.

2.4 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 sheets are well supported when cutting
- wear appropriate safety equipment, including clothing, footwear and safety glasses
- 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, Small Construction Sites, The Absolutely Essential Health and Safety Toolkit.
- WorkSafe, Health and Safety at Work, Quick Reference Guide.

2.5 Handling & Storage

Take care when transporting, handling, and storing IBS V-Groove Ply to avoid damaging the sheets.

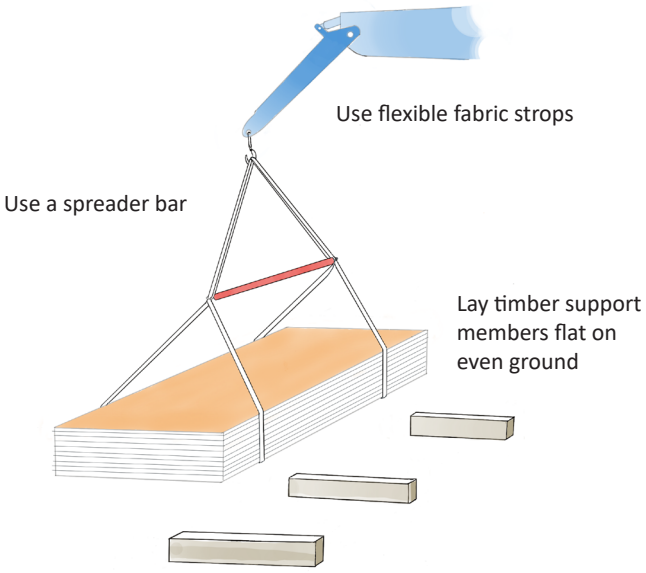
Unload sheets by hand and carry on edge. Take extra care of the Shiplap edge when carrying on edge.

If unloading mechanically, ensure there is a minimum of two well-spaced supports or supported with a pallet to avoid excessive bending or sagging.

A spreader bar may be needed when using a crane. Take extra care to ensure that the edges are not crushed.

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

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



3. Design

3.1 Design Considerations

Confirm scope

Ensure the project falls within the allowed scope and limitations for the intended use, in particular suitability of the building, treatment requirements and the structural framing support.

3.2 As a wall lining

- Sheets are fixed on one face only; sheet height 2400 mm.
- Sheets may be fixed vertically or horizontally.
- Fix using glue and nails or screws at 150 mm centres around the perimeter of each panel and 300 mm centres on the middle studs. Ensure nails and screws are fixed at the centre point of the studs. There is no need for nails or screws on nogs or dwangs.
- Always ensure that there are expansion gaps (min 10mm) left at either end of the wall.

3.3 As a ceiling lining

When fixing as a ceiling lining always use both glue and mechanical fixings. See our glue guide for recommendations. Fix using annular grooved nails or screws at 150mm centres around the perimeter of each panel and at 300mm centres on other supports.

4. Installation

4.1 Tools And Other Product Requirements

Tools

- Fine-tooth hand saw or power saw
- jig saw
- plane
- drill
- pin gun
- sandpaper
- hole saw and speed bits
- moisture meter (where exposed to moist conditions).

Other products

- adhesives (see our glue guide for recommendations)
- fixings
- fillers.

4.2 Confirm Scope

Ensure the project falls within the allowed scope and limitations for the intended use, in particular suitability of the building, treatment requirements and the structural framing support.

4.3 Check Building And Substrates

- Ensure that the timber framing, to which the IBS V-Groove Ply is to be fixed has an 18 % mc or less.
- Where installed as an internal lining, establish the building is fully weathertight.

4.4 Cut Sheets

Cut sheets using a fine-tooth hand or power skill saw. Arase the edge using a plane or 120-150 grit sandpaper. For treated product ensure that you retreat any cut edges including holes.

4.5 Predrill Pilot Holes

Where sheets are to be fixed with screws, predrill 2.4 mm pilot holes to prevent splitting the sheets.

Drill the holes approximately 2-3 mm deeper than the screw depth. Do not overtighten screws as it will reduce their holding strength.

4.6 Finishing

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

Finish the sheets with polyurethane or paint. Use three coats: a primer and two topcoats. Sand the surface after each coat with 280-320 grit sandpaper.

4.7 Select Fixings and Fasteners

Internal lining
Fixings to be: For best results use a panel adhesive and mechanical gun-driven pins or hand driven panel pins.
Ceiling or Soffit lining
Fixings to be: For best results use a panel adhesive and mechanical annular groove nails or screws. For exterior ensure that you use either galvanised fixings or Stainless steel in a sea spray area.

5. Maintenance

Under normal conditions, IBS V-Groove Ply will need no maintenance as long as the protective finished layer has been maintained.

If water damage does occur to an area where IBS V-Groove Ply has been used, first remove the protective layer. Then make sure the area is allowed to dry thoroughly before you replace any protection.

Maintaining the protective layer will depend on the specific finish manufacturer's requirements. But, typically it will include:

- Regularly washing and/or wiping clean protective surfaces to remove mould, scale and/or soap deposits.
- Checking the sealant joints around fixtures.
- Regular inspections should be carried out to check the sheets are not damaged by humidity or moisture.

Notes

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