



# PANEL LINE BRACING

NZ Tested for Wind and Earthquake Resistance





# PANEL LINE BRACING

## PANEL LINE MDF

Panel Line is produced in 9mm Premium Grade Golden Edge medium density fibreboard (MDF) which has excellent strength quality, surface smoothness and stability and superior edge profile. It is suitable as a sheet bracing for light timber framed buildings. The surface can be painted to achieve a superior high quality finish and can be worked easily with all conventional woodworking machines and hand tools.

## Advantages

- High impact resistance
- Easy to use
- Cost effective
- No special tools required
- Certified low chemical emissions
- High quality surface paint finish

**Structural  
quality at home  
in New Zealand**



# IBS PANEL LINE BRACING

## AVAILABLE IN

### “V” GROOVE PROFILE

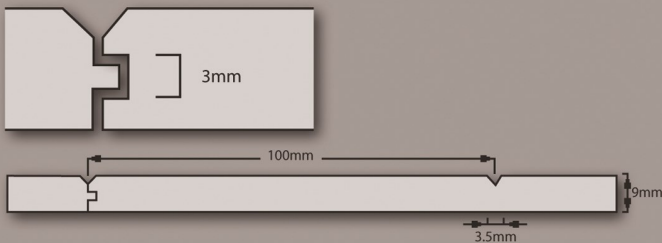
IBS PanelLine Bracing is available in a “V” groove profile running the length of the sheet. Sheets have a tongue and groove edge to provide a matching profile to any width.

IBS PanelLine Bracing can be used as a ceiling ceiling lining, a full wall lining or as 1/2 sheets to give that old character charm with a dado line.

Being MDF, when painted it will give you a quality finish second to none.

IBS PanelLine Bracing is available in 2440 x 1200 and 2745 x 1200.

## “V” GROOVE



### PHYSICAL PROPERTIES (Metric)

Behaviour in use - 9mm thickness

Property	Unit	Min/Val	Mean/Val
Density	Kg/m <sup>3</sup>	690	725
Internal Bond	kPa	700	960
Modulus of Rupture	Mpa	35.0	44.0
Modulus of Elasticity	Mpa	2500	
24hr Thickness Swell-9mm	%	-	9.0
Moisture Content	%	6.0	8.0
Formaldehyde	El		

## STANDARD USE FIXING...

### Nailing

Use 40x2.0 panel pins at 150mm centres through the middle of the sheet. Sheets should also be glued either direct to stud or into existing wall panelling using a panel glue adhesive - 1 x 375ml tube for every 6m<sup>2</sup>. If sheets are installed in an area where there is likely to be any moisture, seal back of sheet and use stainless fixings and glue.

### Screwing

Use 8 gauge x 30mm fixings at 150mm centres at the edges and 300mm centres through the middle of the sheet. Sheets should be glued either direct to stud or onto existing wall paneling using a panel glue adhesive - 1 x 375ml tube for every 6m<sup>2</sup>. If sheets are installed in an area where there is likely to be any moisture, seal back of sheet and use stainless fixings and glue.

### Adhesives

IBS recommends the following adhesives for the fixing of PanelLine Bracing...

### Timber Framing

Either Holdfast NailPower SB Xtra or Fullers Maxbond Fullers Maxbond - product applied (25mm) to the Studs 300mm apart.

Holdfast NailPower SB Xtra - product applied (25mm) to the Studs 300mm apart.

### Steel Framing

Either Holdfast NailPower SB Xtra or Fullers Maxbond (ensure that framing is free of manufacturing residues before applying adhesive).

Fullers Maxbond - Product applied (25mm) to Studs 300mm apart.

Holdfast NailPower SB Xtra - product applied (25mm) to the Studs 300mm apart.

### Fixing without Noticable Mechanical Fastenings

Either Holdfast Fix All 220ms or Holdfast NailPower SB Xtra, in conjunction with Gator Double-Sided Foam Tape. Panels only require pinning at top and bottom of panels.

Timber framing use Holdfast Fix All 220MS or Holdfast NailPower SB Xtra, in conjunction with Gator Double-Sided Tape.

Steel Framing use Holdfast Fix All 20MS in conjunction with Gator Double-Sided Foam Tape.

PTO for Bracing Fixing.



# PANEL LINE BRACING SYSTEM

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## THE P21 TEST

This is a test designed and performed in New Zealand to evaluate the performance of wall bracing elements and their fixings when used as a bracing element in your home or commercial application.

It ensures that the product design when installed as recommended has adequate strength to withstand the maximum likely wind and earthquake loads.

The results are given as follows;

Bracing rating (earthquake) BU earthquake = 149 (124 BU/m) as limited by the ultimate load capacity,

Bracing rating (wind load) BU wind = 127 (106 BU/m) as limited by the ultimate load capacity,

BU is bracing units and by definition, 1kN = 20 bracing units

Walls should be constructed as per the diagram:

- SG8 timber studs 90x45 at 600mm centres
- 9mm Panelline Bracing is one side only
- Fix with 50x3.0 galv nails at 150mm centres to perimeter and at 300mm centres to middle stud
- 25x0.9mm straps around bottom plate fixed to each side of end studs with six 30x2.5mm bracket on each side.
- Use 2 x M12 hold down bolts with 50x50x3mm washers

