

# STRAP BRACE

Versatile and cost-effective bracing product for roofs, ceilings, walls and floors.

## FEATURES AND BENEFITS

**VERSATILE:** Can be cut to match any size or application, meaning you can do more, with less.

**FAST:** Slim profile means studs don't need to be checked, saving time and cost. Nutsert tensioner can be used with a drill to speed up tensioning.

**EASY:** Unlike Speed or Angle Brace, can be partially fastened but not tensioned allowing for plumb adjustment of wall frames prior to tensioning.

## SPECIFICATIONS

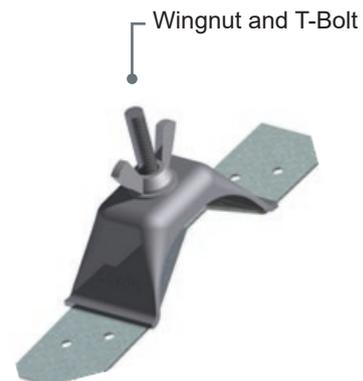
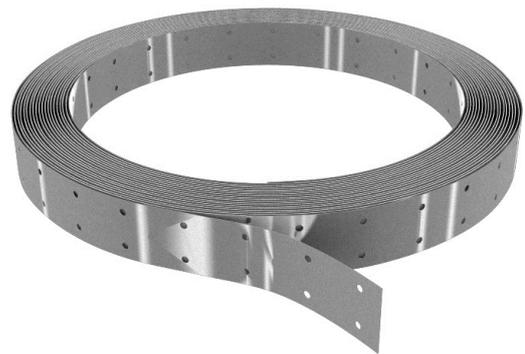
STEEL	G300
THICKNESS	0.8mm, 1.0mm or 1.2mm
CORROSION RESISTANCE	Z275 or S316L
FASTENERS	Pryda Timber Connector Nails 35 x 3.15mm
LENGTHS	3.5 & 4.5m strips 15, 30 & 50m rolls

For full range details see table on next page

### AS1684 & NCC COMPLIANT



- Minimum nett section of 15mm<sup>2</sup> for 0.8mm Strap Brace
- Minimum nett section of 21mm<sup>2</sup> for 1.0mm Strap Brace
- Minimum G300 Z275 galvanised steel



## STRAP BRACE

PRODUCT CODE	MATERIAL	SIZE	LENGTH	QUANTITY	WALLS	ROOFS	FLOORS	DESIGN TENSION CAPACITY (ΦNJ) KN
SB083/15	G300 Z275 Galvanised Steel (275 g/m <sup>2</sup> coating)	30 x 0.8mm	15m	1 Roll	Type A (1.5 kN/m) & Type B with 20% reduced capacity (2.4 kN/m)	Not Suitable	✓	5.2
SB083/30			30m	1 Roll			✓	5.2
SB083/50			50m	1 Roll			✓	5.2
SB083/3.5W-500			3.5m	500 Lengths			✓	5.2
SB083/4.0W-500			4.0m	500 Lengths			✓	5.2
SB102/SS	G316L Stainless Steel	25 x 0.9mm	15m	1 Roll			✓	5.8
SB103/30	G300 Z275 Galvanised Steel (275 g/m <sup>2</sup> coating)	30 x 1.0mm	30m	1 Roll	Type A (1.5 kN/m) & Type B (3.0 kN/m)	Not Suitable*	✓	6.8
SB103/50			50m				✓	6.8
SB123/30	32 x 1.2mm	30m	Refer to Pryda Truss Installation Guide				✓	9.4

For more details on Type A & B Bracing units, refer to Australian Standard AS1684

\*Can be used for Truss Tie Downs. Refer to AS1684 for permitted use and fixing details.

## TENSIONERS

PRODUCT CODE	MATERIAL	SIZE	LENGTH	QUANTITY
SBT	G300 Z275 Galvanised Steel (275 g/m <sup>2</sup> coating)	Wing Nut Driven by hand	5 packs of 6 Tensioners	30
SBT100			10 packs of 10 Tensioners	100
SBT30N		Nutsert Driven by socket	5 packs of 6 Tensioners	30
SBT100N			10 packs of 10 Tensioners	100
SBT/SS	S316L Stainless Steel	Wing Nut Driven by hand	1	1

## PRYDA TIMBER CONNECTOR NAILS

PRODUCT CODE	MATERIAL	SIZE	LENGTH	QUANTITY
OSNGB	Galvanised Steel	35 x 3.15mm Flat Head	500g cardboard packs x 10	5kg
OSNGC/S			500g clamshell packs x 5	2.5kg
OSNG			1kg cardboard packs x 10	10kg
TPOSNG			5kg trade pack x 1	5kg
OSNBCI/SS	S316L Stainless Steel		500g clamshell pack x 1	500g

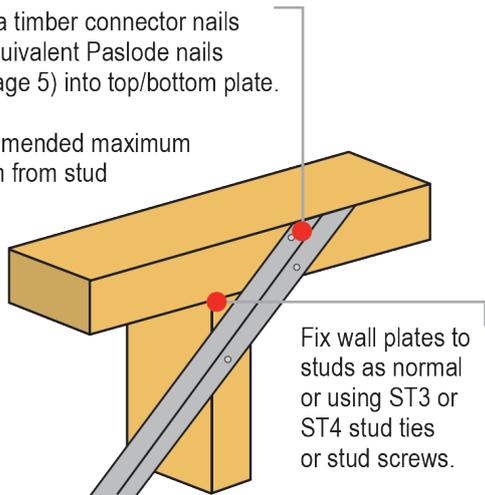
## INSTALLATION – AS1684 TYPE A BRACING UNIT

<b>RACKING CAPACITY</b>	SB083 - 30 x 0.8mm Strap Brace	1.5 kN/m at up to 2.7m height
		1.35 kN/m up to a maximum of 3.0m high

### STEP 1

3 Pryda timber connector nails or 5 equivalent Paslode nails (see page 5) into top/bottom plate.

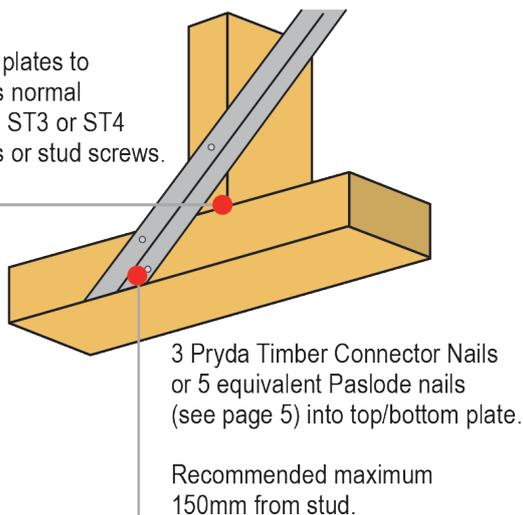
Recommended maximum 150mm from stud



- Ensure wall panel is straight/plumb
- Fix Strap Brace to top plate as per detail above

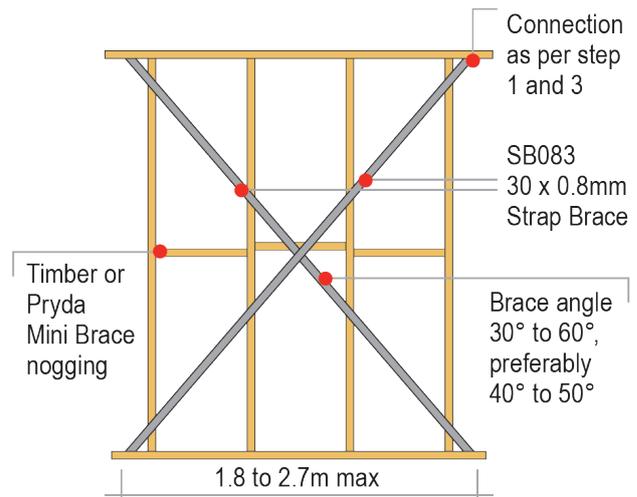
### STEP 3

Fix wall plates to studs as normal or using ST3 or ST4 stud ties or stud screws.



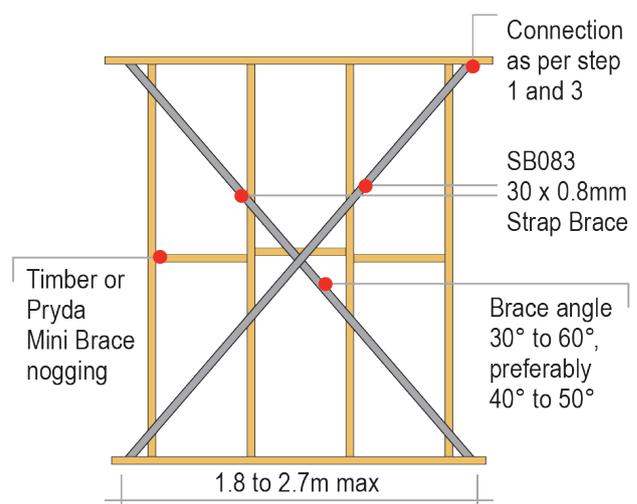
- Fix second end in same manner as the top plate

### STEP 2



- Lay Strap Brace at approximately 45° (Maximum 60°, minimum 30°)
- Cut the Strap Brace to length

### STEP 4



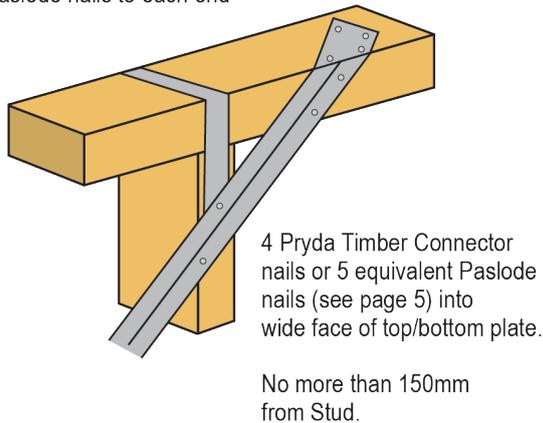
- Repeat steps 1-3 for the second length of strap, to form the cross brace
- Ensure the frames are fixed down to the underlying structure prior to tensioning the braces
- Fit 1 tensioner per strap, facing into frame so it won't get in the way of plasterboard. Tighten until taut.
- Fasten with 1 Timber Connector Nail or two machine driven nails per strap and per stud

## INSTALLATION – AS1684 TYPE B BRACING UNIT

<b>RACKING CAPACITY</b>	SB103 - 30 x 1.0mm Strap Brace	3.0 kN/m at up to 2.7m height
		2.7 kN/m up to a maximum of 3.0m high
	<b>Reduced Racking Capacity for SB083</b> 30 x 0.8mm Strap Brace reduced by 20%	2.4 kN/m at up to 2.7m height
		2.1 kN/m up to a maximum of 3.0m high

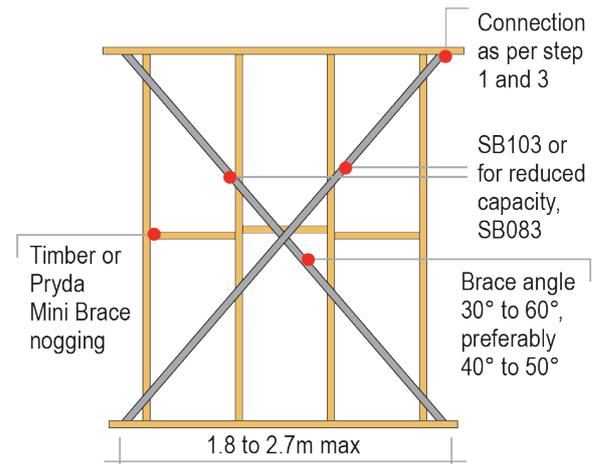
### STEP 1

Stud screw, stud tie or 30 x 0.8mm strap with 3 timber connector nails or 4 equivalent Paslode nails to each end



- Ensure wall panel is straight/plumb
- Fix Strap Brace to top plate as per detail above

### STEP 2

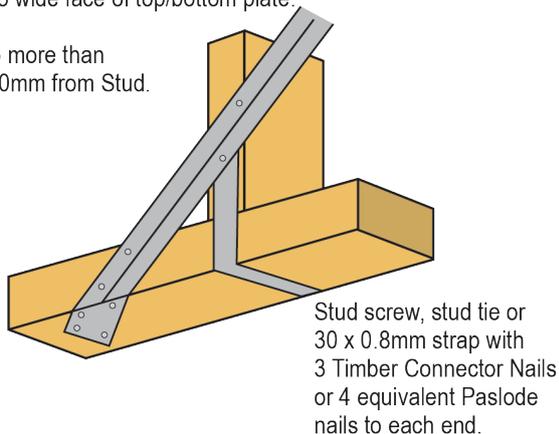


- Lay Strap Brace at approximately 45° (Maximum 60°, minimum 30°)
- Leaving enough length to wrap under the bottom plate, cut the Strap Brace to length

### STEP 3

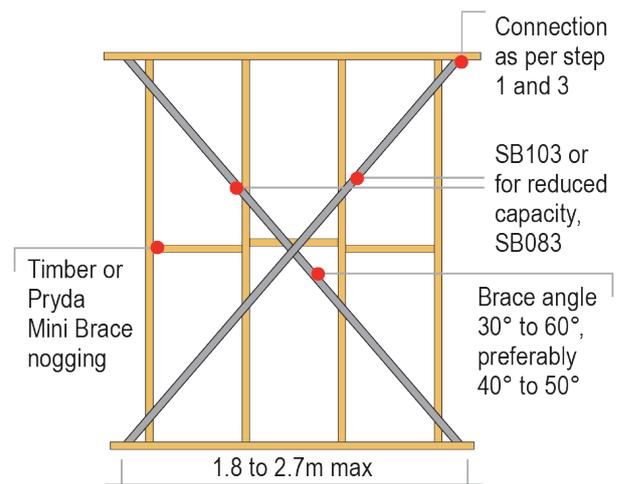
4 Pryda Timber Connector nails or 5 equivalent Paslode nails (see page 5) into wide face of top/bottom plate.

No more than 150mm from Stud.



- Fix second end in same manner as the top plate

### STEP 4



- Repeat steps 1-3 for the second length of strap, to form the cross brace
- Ensure the frames are fixed down to the underlying structure prior to tensioning the braces
- Fit 1 tensioner per strap, facing into frame so it won't get in the way of plasterboard. Tighten until taut.
- Fasten with one Timber connector nail or two machine driven nails per strap and per stud

## STRAP BRACE

### BUILD WITH CONFIDENCE

#### Where possible, hand nailing with Pryda Timber Connector nails is always preferred, why?

- Pryda Timber Connector Nails are forged in one piece, unlike clouts that are two pieces soldered together, meaning the head can pop off
- Pryda Nails are the correct diameter, ensuring a tight fit in prepunched holes = a stronger connection
- Design values and testing have all been conducted using Pryda Timber Connector Nails
- Hand hammered nails ensure correct nail positioning and drive depth (not driven to shallow or too deep)

#### USING PASLODE MACHINE DRIVEN NAILS

Where appropriate, Paslode Machine Driven Nails listed below may be used instead of the specified 35 x 3.15mm Pryda Timber Connector Nails to fix Pryda connectors provided that:

- There is one additional nail per connection than specified in the bracing details (eg, 2 instead of 1, 3 instead of 2, 5 instead of 4 etc.)
- Machine driven nails are driven at nail spacings and edge distances similar to the hole pattern, ensuring that these nails are not:
  - Driven into the holes
  - Located not closer than 5mm from the edge of a hole
  - Grouped together
  - Within 10mm from the edge

Screw hardened, electro galvanised Paslode nails that are appropriate include:

- Duo-Fast C SHEG 32 x 2.3mm (D40810)
- Paslode 32 x 2.5mm (B25110)
- Duo-Fast 32 x 2.5mm (D41060)
- Pas Coil 32 x 2.5mm SHEG 2 Pack (B25250)
- Impulse 32 x 2.5mm SHEG (B40020)



## STRAP BRACE TIPS

- 1 Larger holes are only for tensioners, do not use them for nails
- 2 Do not overtension Strap Bracing as this can both reduce the capacity of the unit and bring walls out of plumb
- 3 Ensure nails are at least 10mm away from timber end or edges to prevent splitting
- 4 Ensure Strap Brace is tensioned prior to nailing to studs/trusses
- 5 Keep wall bracing angles within 30° to 60° and roof angles between 30° to 45° or the brace will not be compliant
- 6 Fix Strap Brace to the Bottom Plate before standing wall
- 7 Avoid having the centre of the opposing brace located over a stud or a nog as this can cause a bump in the plasterboard



### LOOKING FOR MORE DETAILED DESIGN VALUES?

See our Bracing Design guide available at [www.pryda.com.au](http://www.pryda.com.au)