

# Cyclone Strap

## GALVANISED

### Application

The Bremick® Cyclone Straps are designed for tying down roof purlins to trusses and roof trusses to wall frames in high wind zones. The straps can be applied by tying down the truss to the face of a large beam/lintel or wrapping underneath the top plate.

### Advantages

The Bremick® Cyclone Strap provides numerous benefits including:

- Quick and easy to install
- Provides sufficient tie down capacity for most high wind zones
- Can be doubled up to achieve twice the design capacity
- When the strap is wrapped under the timber top plate and fastened with at least nails the capacity increases significantly
- Available in 3 lengths to suit most applications
- Unpunched product available to suit when strap is being installed with machine driven nails

### Specifications

<b>Steel Grade</b>	G300
<b>Coating</b>	Z275 – Galvanised
<b>Thickness</b>	1.0mm, 1.2mm
<b>Width</b>	32mm
<b>Length</b>	400mm, 600mm & 900mm
<b>Fasteners</b>	Bremick® 35 x 3.15mm Timber Connector Nails 32 x 2.5mm Screw Shank Machine Fastened Nails Bremick® Type 17, 12g x 35mm Screws



### Bremick® Ranging

Product Code	Dimensions	Un/Punched	Coating	Pack Qty
TCPG400032104	1.0mm x 32mm x 400mm	Punched	Z275 – Galvanised	50
TCPG600032104	1.0mm x 32mm x 600mm	Punched	Z275 – Galvanised	50
TCUG600032104	1.0mm x 32mm x 600mm	Unpunched	Z275 – Galvanised	50
TCPG900032104	1.0mm x 32mm x 900mm	Punched	Z275 – Galvanised	25
TCPG900032124	1.2mm x 32mm x 900mm	Punched	Z275 – Galvanised	25

# Installation Instructions – To the rafter or truss overhang

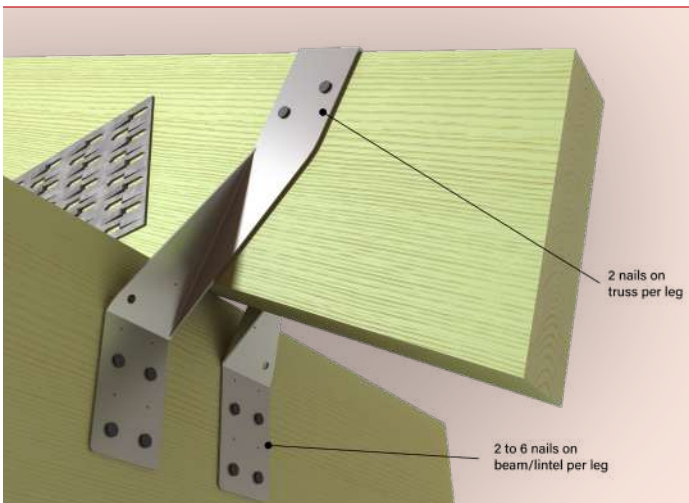
1

Place the Bremick® Cyclone Strap across the top of the timber truss and fasten 2 x Bremick® Timber Connector nails or 32mm x 2.5mm hardened screw shank machine driven nails through the strap and into the timber truss, as indicated below

2

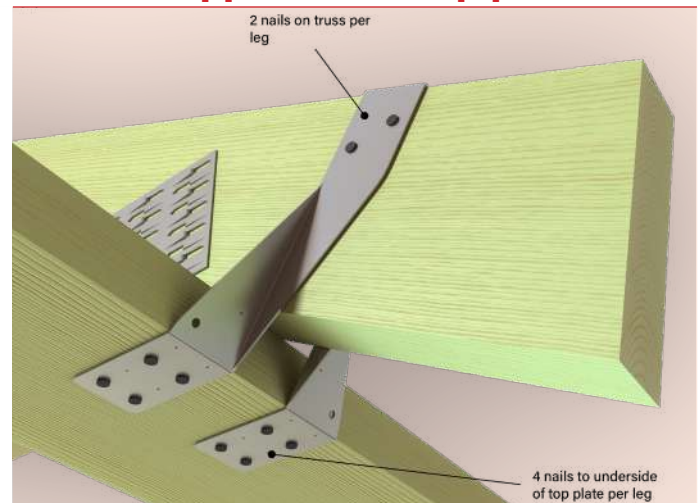
Use a hammer to bend the Bremick® Cyclone Strap over the edges and down the sides of the top member.

## Face fixed

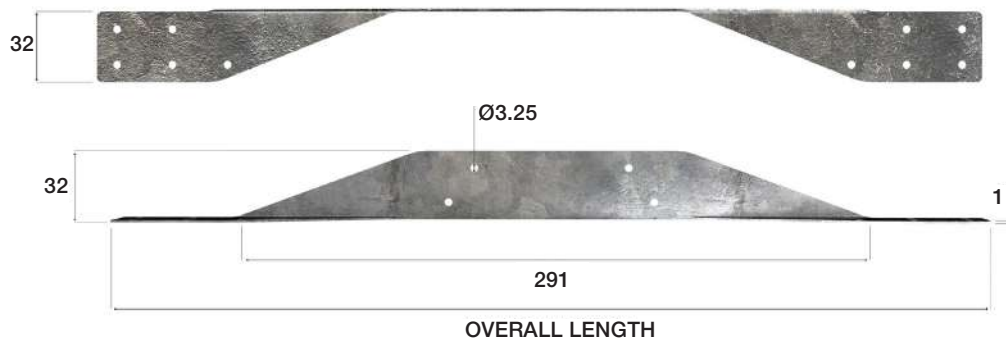


Fasten each leg of the Cyclone Tie to the face of the supporting member with 6 x Bremick® Timber Connector nails (or 8 x machine driven nails) to achieve the capacity.

## Wrapped under top plate



Use a hammer to fold the excess of each tie leg under the supporting member and secure each leg with 4 x Bremick® Timber Connector nails (or 5 x machine driven nails) to the underside.



# Technical Data

## CYCLONE STRAP

TCPG400032104

### LIMIT STATE WIND LOAD UPLIFT CAPACITY – FACE FIXED

**Table 1** CAPACITY: FOR 3-35 x 3.15mm DIAMETER NAILS USED @ EACH END OF 400 LENGTH STRAP - VERTICAL

NAILS PER LEG	Seasoned Timber Capacity (kN)					
	JD6	JD5	JD4	JD3	JD2	JD1
3	3.5	4.7	5.7	7.9	10.1	11.4
NAILS PER LEG	Unseasoned Timber Capacity (kN)					
	J6	J5	J4	J3	J2	J1
3	2.3	3.1	4.0	5.7	7.9	10.1

**Table 2** CAPACITY: FOR 3-35 x 3.15mm DIAMETER NAILS USED @ EACH END OF 400 WIDTH STRAP – 20 DEGREES TO VERTICAL

NAILS PER LEG	Seasoned Timber Capacity (kN)					
	JD6	JD5	JD4	JD3	JD2	JD1
3	0.8	1.1	1.6	2.6	4.1	5.7
NAILS PER LEG	Unseasoned Timber Capacity (kN)					
	J6	J5	J4	J3	J2	J1
3	1.4	1.8	2.3	2.6	3.1	3.9

# Technical Data

## CYCLONE STRAP

TCPG600032104 • TCUG600032104 • TCPG900032104 • TCPG900032124

### LIMIT STATE WIND LOAD UPLIFT CAPACITY – FACE FIXED

**Table 3** CAPACITY: FOR 3-35 x 3.15mm DIAMETER NAILS USED @ EACH END OF 600 & 900 LENGTH STRAP - VERTICAL

NAILS PER LEG	Seasoned Timber Capacity (kN)					
	JD6	JD5	JD4	JD3	JD2	JD1
3	3.5	4.7	5.7	7.9	10.1	11.4
4	4.7	6.3	7.5	10.6	12.9 *	12.9 *
5	5.5	7.4	8.9	12.4	12.9 *	12.9 *
6	6.5	8.8	10.5	12.9 *	12.9 *	12.9 *
7	7.5	10.2	12.2	12.9 *	12.9 *	12.9 *
8	8.5	11.6	12.9 *	12.9 *	12.9 *	12.9 *
9	9.5	12.9 *	12.9 *	12.9 *	12.9 *	12.9 *
NAILS PER LEG	Unseasoned Timber Capacity (kN)					
	J6	J5	J4	J3	J2	J1
3	2.3	3.1	4.0	5.7	7.9	10.1
4	3.0	4.1	5.3	7.5	10.6	12.9 *
5	3.4	4.7	6.0	8.5	11.9	12.9 *
6	4.0	5.5	7.1	9.9	12.9 *	12.9 *
7	4.6	6.2	8.1	11.3	12.9 *	12.9 *
8	5.1	7.0	9.0	12.7	12.9 *	12.9 *
9	5.6	7.6	9.9	12.9 *	12.9 *	12.9 *

**Table 4** CAPACITY: FOR 3-35 x 3.15mm DIAMETER NAILS USED @ EACH END OF 600 & 900 WIDTH STRAP – 20 DEGREES TO VERTICAL

NAILS PER LEG	Seasoned Timber Capacity (kN)					
	JD6	JD5	JD4	JD3	JD2	JD1
3 TO 9	0.8	1.1	1.6	2.6	4.1	5.7
NAILS PER LEG	Unseasoned Timber Capacity (kN)					
	J6	J5	J4	J3	J2	J1
3 TO 9	1.4	1.8	2.3	2.6	3.1	3.9

### REMARKS

- Values for Category 1 (secondary members.) Values x 0.94 for Category 2 (primary members) and Category 3 Values x 0.88 for post disaster structures primary members.
- Nails must be spaced as per minimum requirements of AS1720.1.
- Wrapped Under subject to full testing regime.