

# Joist Strap

## GALVANISED

### Application

The Bremick® Joist Strap is ideal for connecting 2 timber members that intersect at right angles. Typical applications include rafters to beams, purlins to rafters or trusses, hanging beams to ceiling joists and floor joists to bearers.

### Advantages

The Bremick® Joist Strap provides numerous benefits including:

- Built-in nails for easy fastening of the strap to timber members.
- Pre-drilled nail holes to allow easy fixing of nails.

### Specifications

|             |                                             |
|-------------|---------------------------------------------|
| Steel Grade | G300                                        |
| Coating     | Z275 – Galvanised                           |
| Thickness   | 0.6mm                                       |
| Width A     | 23mm                                        |
| Width B     | 6mm                                         |
| Length      | 162mm                                       |
| Fasteners   | Bremick® 35 x 3.15mm Timber Connector Nails |



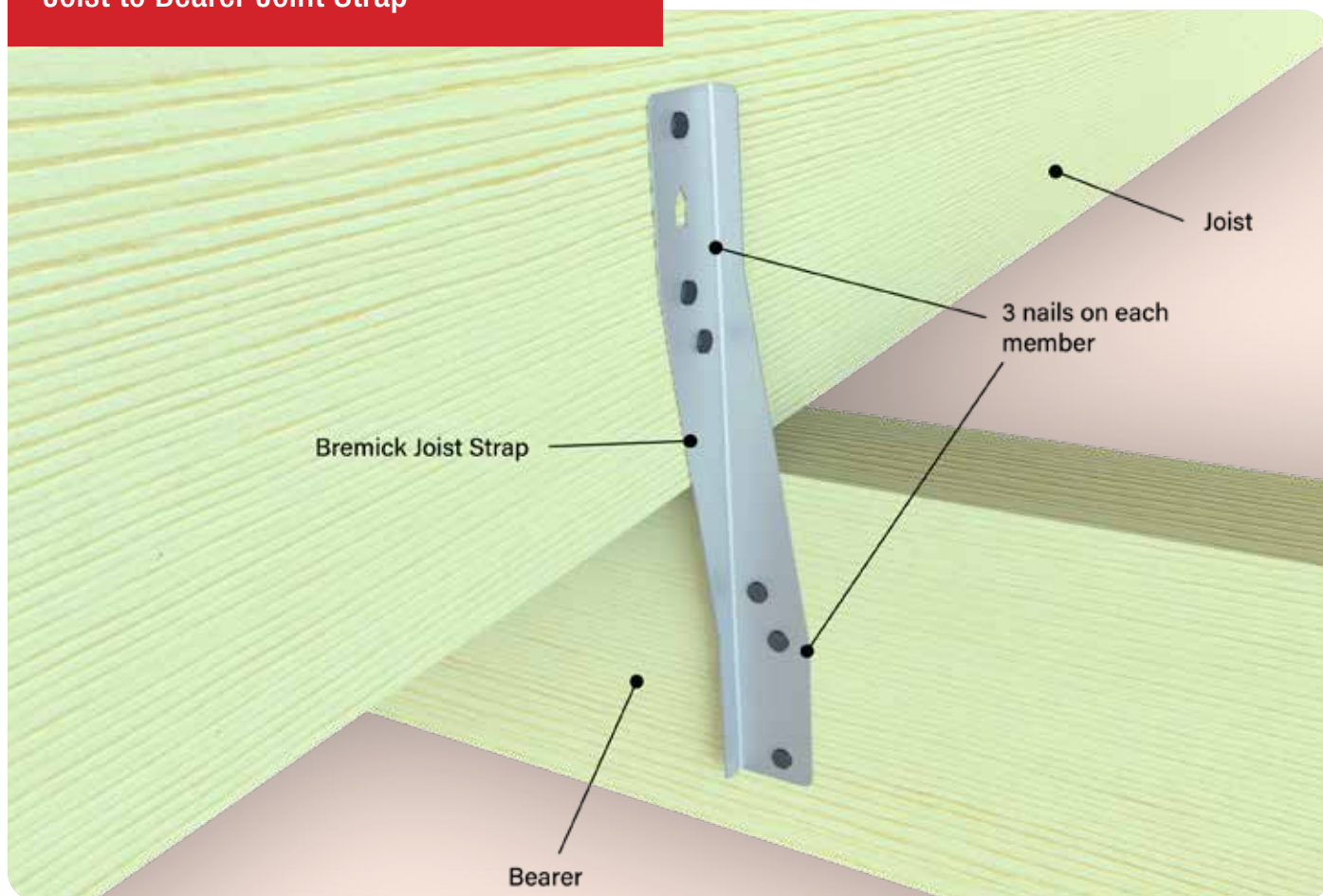
### Bremick® Ranging

| Product Code      | Dimensions                 |
|-------------------|----------------------------|
| TJSG162000064     | 162mm x 23mm x 6mm x 0.6mm |
| Coating           | Pack Qty                   |
| Z275 – Galvanised | 100                        |



# Installation Instructions

## Joist to Bearer Joint Strap



**1**

Locate the Bremick Joist Strap into position.

**2**

Hammer built-in nail into the first timber member.

**3**

Then hammer the remaining built-in nail of the strap into the second timber member, that is at right angles to the first timber member.

**4**

Hammer 3 Bremick Timber Connector Nails through the pre-drilled nail holes into the first timber member.

**5**

Then Hammer 3 Bremick Timber Connector Nails through the pre-drilled nail holes into the second timber member.

# Technical Data

## JOIST STRAP

TJSG162000064

### SINGLE JOIST STRAP LIMIT STATE CAPACITY (1.35G)

**Table 1** 2 - 3.15mm DIAMETER NAILS USED ON FACE

| NUMBER OF JOIST STRAP | Seasoned Timber Capacity (kN)   |     |     |     |     |     |
|-----------------------|---------------------------------|-----|-----|-----|-----|-----|
|                       | JD6                             | JD5 | JD4 | JD3 | JD2 | JD1 |
| 1/JOIST STRAP         | 0.5                             | 0.7 | 0.9 | 1.2 | 1.5 | 2.0 |
| 2/JOIST STRAP         | 0.9                             | 1.2 | 1.4 | 2.0 | 2.6 | 3.4 |
| 3/JOIST STRAP         | 1.3                             | 1.7 | 2.0 | 2.9 | 3.6 | 4.8 |
| 4/JOIST STRAP         | 1.6                             | 2.2 | 2.6 | 3.7 | 4.7 | 6.3 |
|                       | Unseasoned Timber Capacity (kN) |     |     |     |     |     |
|                       | J6                              | J5  | J4  | J3  | J2  | J1  |
| 1/JOIST STRAP         | 0.3                             | 0.5 | 0.6 | 0.9 | 1.2 | 1.5 |
| 2/JOIST STRAP         | 0.6                             | 0.8 | 1.0 | 1.4 | 2.0 | 2.6 |
| 3/JOIST STRAP         | 0.8                             | 1.1 | 1.4 | 2.0 | 2.9 | 3.6 |
| 4/JOIST STRAP         | 1.1                             | 1.4 | 1.9 | 2.6 | 3.7 | 4.7 |

### REMARKS

- These design capacities apply directly for Category 1 joints as described in Table 2.2 of AS1720.1:2010. For Category 2 and Category 3 joints, multiply these capacities by 0.94 and 0.88 respectively.
- Capacity for (UNPUNCHED) product not provided due to uncertainty in nail depth, location, and quality.
- Connected members must be independently restrained from rolling.
- Capacity can be multiplied by 1.5 if 3 – 3.15mm diameter nails used on face.
- The design capacities tabulated above apply directly for 1.35G load case using  $k_1 = 0.57$ . For other load cases, multiply these capacities by the load factors given below. For a joist strap, the resultant capacity must not exceed the steel ultimate capacity of 3KN.

|           | Load factor |            |            |                      |
|-----------|-------------|------------|------------|----------------------|
| Load Case | 1.35G       | 1.2G+1.5QF | 1.2G+1.5QR | 1.2G+WD or 0.9G - Wu |
| Factor    | 1           | 1.21       | 1.35       | 2                    |