

Hoop Iron

GALVANISED



Application

The Bremick® Hoop Iron is for general use connection applications including, tying down items to timber in non-structural applications, bonding masonry, connecting downpipes to the external wall etc. Also, commonly used for bracing outdoor fences where there are no present heavy loads or wind uplifts. Note, the product dimensions dictate that it should not be used in structural applications.

Advantages

The Bremick® Hoop Iron provides numerous benefits including:

- Genuine Galvanised coating that provides appropriate corrosion protection.
- Available in both punched and unpunched product lines, providing flexible functionality.
- Offered in 6, 15 or 30 metre lengths to suit the required applications, thereby saving on wastage and funds.

Specifications

Steel Grade	G300
Coating	Z275 – Galvanised
Thickness	0.6mm, 0.8mm, 1.2mm
Width	25mm, 30mm
Length	6m, 15m, 30m
Configuration	Punched & Unpunched
Fasteners	Bremick® 35 x 3.15mm Timber Connector Nails



Bremick® Ranging

Product Code	Dimensions	Un/Punched	Coating	Pack Qty
THPG006025064	0.6mm x 25mm x 6M	Punched	Z275 – Galvanised	5 coils
THPG015025064	0.6mm x 25mm x 15M	Punched	Z275 – Galvanised	5 coils
THPG030025064	0.6mm x 25mm x 30M	Punched	Z275 – Galvanised	1 coil
THUG030025064	0.6mm x 25mm x 30M	Unpunched	Z275 – Galvanised	1 coil
THUG030030084	0.8mm x 30mm x 30M	Unpunched	Z275 – Galvanised	1 coil
THUG030030124	1.2mm x 30mm x 30M	Unpunched	Z275 – Galvanised	1 coil

Ø4



WIDTH

Technical Data

HOOP IRON (25mm X 0.6mm)

THPG006025064 • THPG015025064 • THPG030025064 • THUG030025064

LOOPED HOOP IRON LIMIT STATE WIND LOAD CAPACITY

TABLE 1 UPLIFT CAPACITY: 4 - 3.15mm DIAMETER NAILS USED @ EACH END OF STRAP

JOINT GROUP	Seasoned Timber Capacity (kN)					
	JD6	JD5	JD4	JD3	JD2	JD1
	3.9	5.3	5.9	5.9	5.9	5.9
JOINT GROUP	Unseasoned Timber Capacity (kN)					
	J6	J5	J4	J3	J2	J1
	2.5	3.4	4.5	5.9	5.9	5.9

TABLE 2 UPLIFT CAPACITY: 6 - 3.15mm DIAMETER NAILS USED @ EACH END OF STRAP

JOINT GROUP	Seasoned Timber Capacity (kN)					
	JD6	JD5	JD4	JD3	JD2	JD1
	5.4	5.9	5.9	5.9	5.9	5.9
JOINT GROUP	Unseasoned Timber Capacity (kN)					
	J6	J5	J4	J3	J2	J1
	3.3	4.6	5.9	5.9	5.9	5.9

TABLE 3 UPLIFT CAPACITY: 8 - 3.15mm DIAMETER NAILS USED @ EACH END OF STRAP

JOINT GROUP	Seasoned Timber Capacity (kN)					
	JD6	JD5	JD4	JD3	JD2	JD1
	5.9	5.9	5.9	5.9	5.9	5.9
JOINT GROUP	Unseasoned Timber Capacity (kN)					
	J6	J5	J4	J3	J2	J1
	4.2	5.8	5.9	5.9	5.9	5.9

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
- Values for a hoop iron strap looped over a member that is to be held down, the ends brought parallel and fastened each end with the number of nails indicated.
- Minimum nail length 35mm. Nails to be tight fit in holes.
- See appendix for nail layout to achieve capacity. Only every second pair of holes can be filled.
- When used as a single strap (not looped) half the published value may be used.

Technical Data

HOOP IRON (30mm X 0.8mm)

THUG030030084

LOOPED HOOP IRON LIMIT STATE WIND LOAD CAPACITY

TABLE 4 UPLIFT CAPACITY: 4 - 3.15mm DIAMETER NAILS USED @ EACH END OF STRAP

JOINT GROUP	Seasoned Timber Capacity (kN)					
	JD6	JD5	JD4	JD3	JD2	JD1
	3.9	5.3	6.3	8.8	9.9	9.9
JOINT GROUP	Unseasoned Timber Capacity (kN)					
	J6	J5	J4	J3	J2	J1
	2.5	3.4	4.5	6.3	8.8	9.9

TABLE 5 UPLIFT CAPACITY: 6 - 3.15mm DIAMETER NAILS USED @ EACH END OF STRAP

JOINT GROUP	Seasoned Timber Capacity (kN)					
	JD6	JD5	JD4	JD3	JD2	JD1
	5.4	7.4	8.8	9.9	9.9	9.9
JOINT GROUP	Unseasoned Timber Capacity (kN)					
	J6	J5	J4	J3	J2	J1
	3.3	4.6	5.9	8.3	9.9	9.9

TABLE 6 UPLIFT CAPACITY: 8 - 3.15mm DIAMETER NAILS USED @ EACH END OF STRAP

JOINT GROUP	Seasoned Timber Capacity (kN)					
	JD6	JD5	JD4	JD3	JD2	JD1
	7.1	9.7	9.9	9.9	9.9	9.9
JOINT GROUP	Unseasoned Timber Capacity (kN)					
	J6	J5	J4	J3	J2	J1
	4.2	5.8	7.5	9.9	9.9	9.9

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
- Values for a hoop iron strap looped over a member that is to be held down, the ends brought parallel and fastened each end with the number of nails indicated.
- Minimum nail length 35mm. Nails to be tight fit in holes.
- See appendix for nail layout to achieve capacity. Only every second pair of holes can be filled.
- When used as a single strap (not looped) half the published value may be used.

Technical Data

HOOP IRON (30mm X 1.2mm)

THUG030030124

LOOPEd HOOP IRON LIMIT STATE WIND LOAD CAPACITY

TABLE 7 UPLIFT CAPACITY: 4 - 3.15mm DIAMETER NAILS USED @ EACH END OF STRAP – NAILS TIGHT

JOINT GROUP	Seasoned Timber Capacity (kN)					
	JD6	JD5	JD4	JD3	JD2	JD1
	4.7	6.3	7.5	10.6	13.4	15.4
JOINT GROUP	Unseasoned Timber Capacity (kN)					
	J6	J5	J4	J3	J2	J1
	3.0	4.1	5.3	7.5	10.6	13.4

TABLE 8 UPLIFT CAPACITY: 6 - 3.15mm DIAMETER NAILS USED @ EACH END OF STRAP

JOINT GROUP	Seasoned Timber Capacity (kN)					
	JD6	JD5	JD4	JD3	JD2	JD1
	6.5	8.8	10.5	14.8	15.4	15.4
JOINT GROUP	Unseasoned Timber Capacity (kN)					
	J6	J5	J4	J3	J2	J1
	4.0	5.5	7.1	9.9	13.9	15.4

TABLE 9 UPLIFT CAPACITY: 8 - 3.15mm DIAMETER NAILS USED @ EACH END OF STRAP

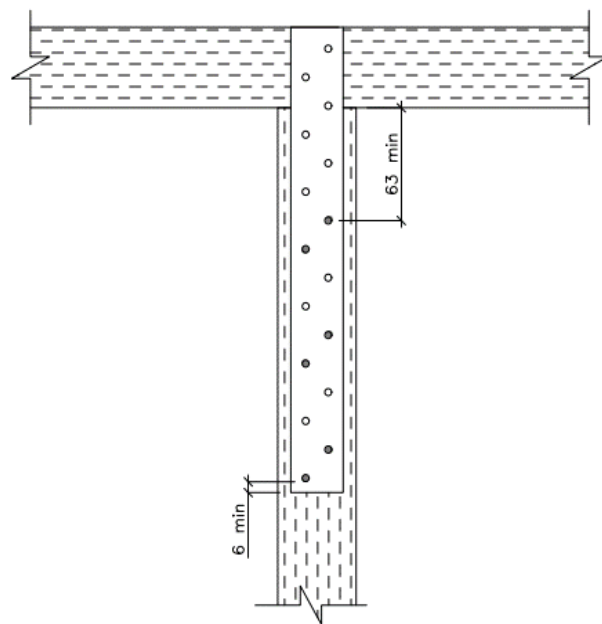
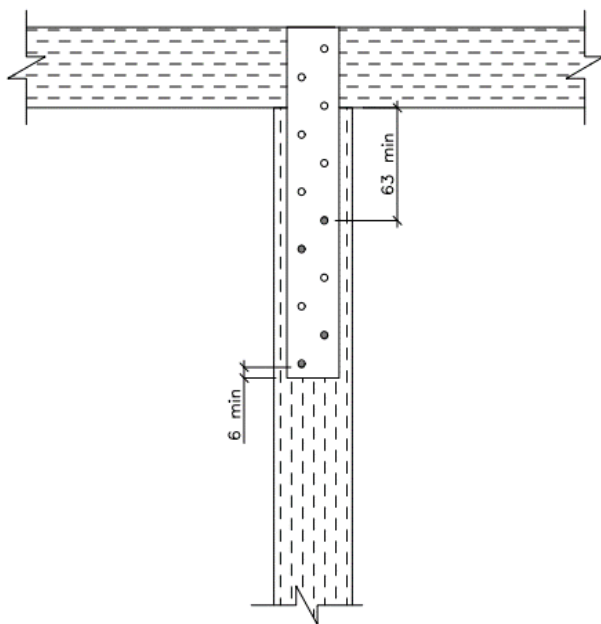
JOINT GROUP	Seasoned Timber Capacity (kN)					
	JD6	JD5	JD4	JD3	JD2	JD1
	8.5	11.6	13.8	15.4	15.4	15.4
JOINT GROUP	Unseasoned Timber Capacity (kN)					
	J6	J5	J4	J3	J2	J1
	5.1	7.0	9.0	12.7	15.4	15.4

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
- Values for a hoop iron strap looped over a member that is to be held down, the ends brought parallel and fastened each end with the number of nails indicated.
- Minimum nail length 35mm. Nails to be tight fit in holes.
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Appendix

Figure N.1 Minimum Edge and End Distances.



Installation Instructions

1

Secure first end of one piece of Hoop Iron into position using Bremick® Timber Connector nails.

2

Stretch the Hoop Iron over the entire item to be tied down. Ensure the Hoop Iron is taut.

3

Fasten the second end of the Hoop Iron into position using Bremick® Timber Connector nails.

4

Cut the strap brace to length.