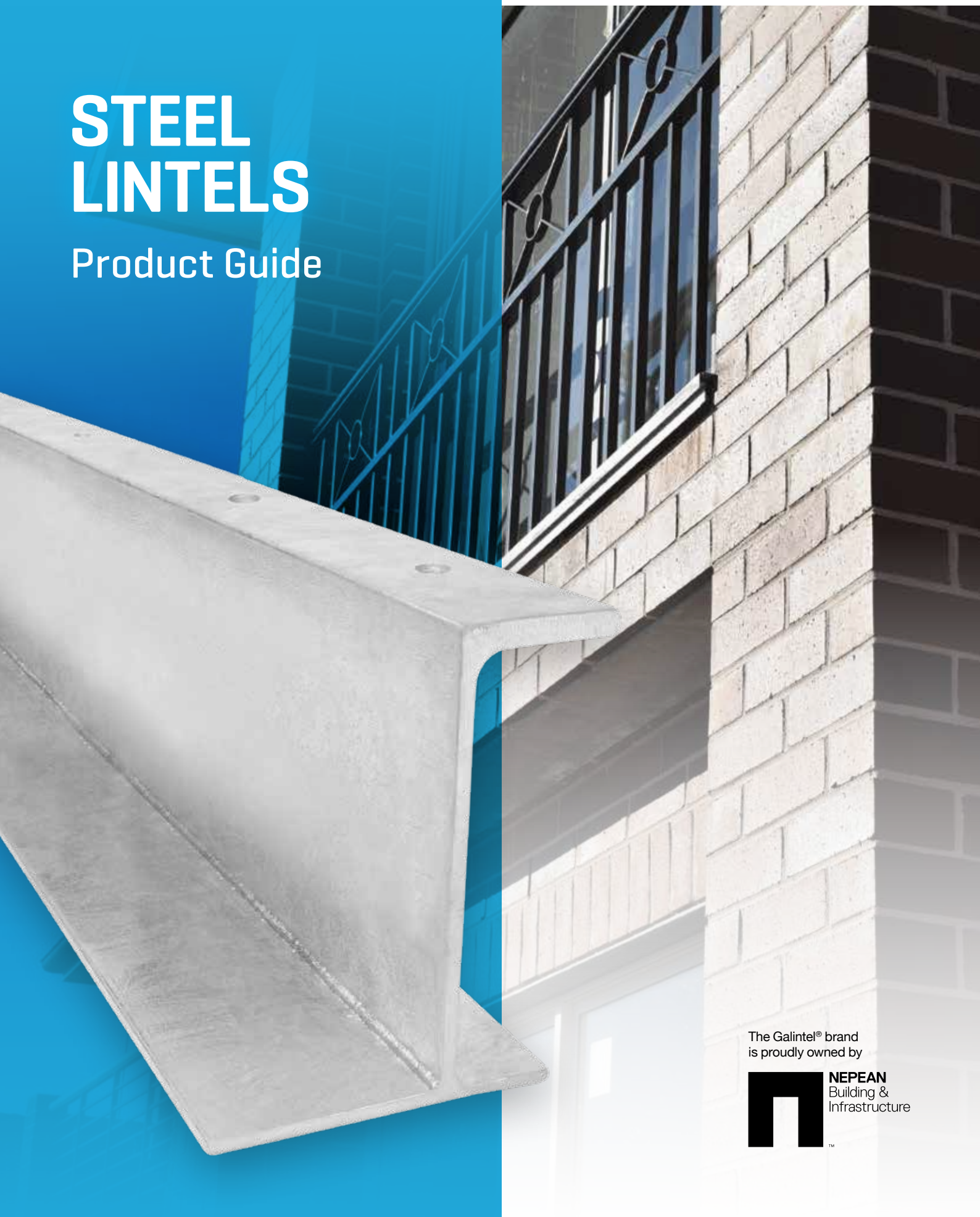
Galintel®

STEEL LINTELS

Product Guide



The Galintel® brand
is proudly owned by

NEPEAN
Building &
Infrastructure

Contents

NEPEAN Building & Infrastructure is a division of NEPEAN, Australia's largest privately owned engineering and industrial manufacturing organisation.

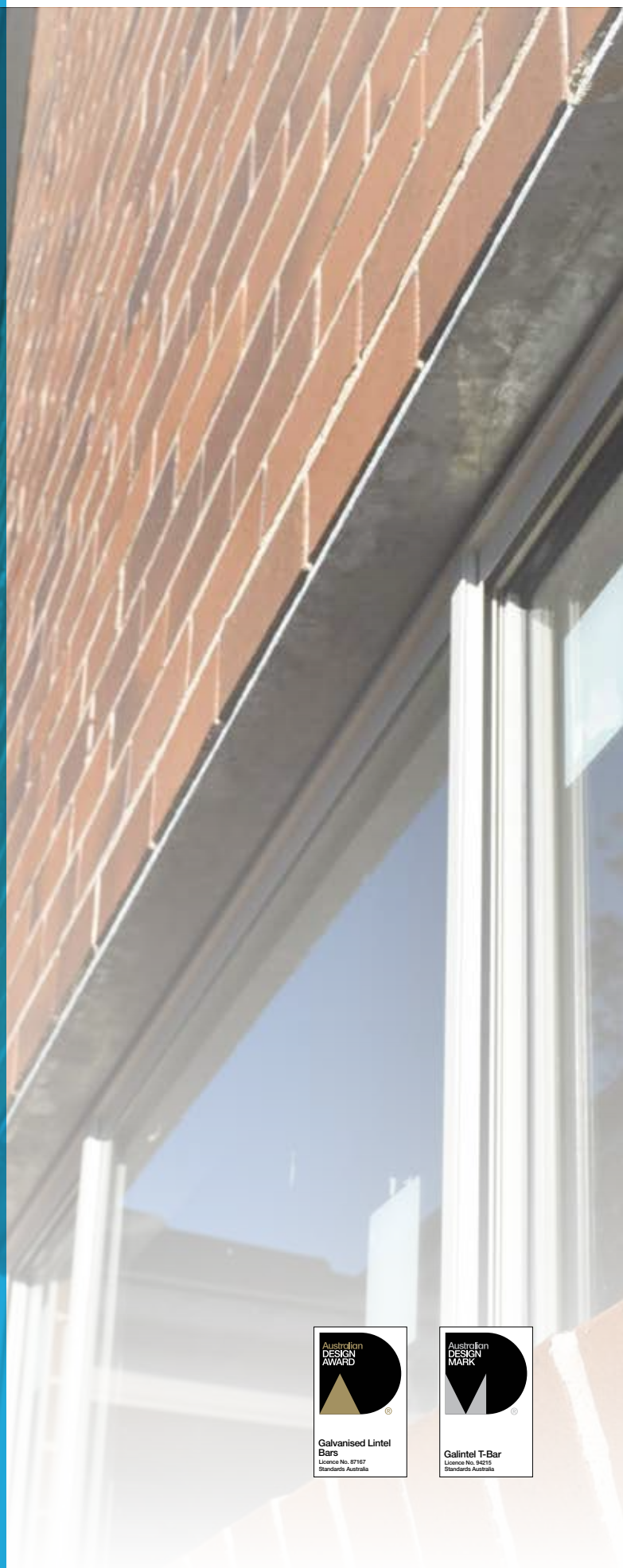
The renowned Galintel® brand, designed and manufactured by NEPEAN Building & Infrastructure, represents Australia's highest quality galvanised steel lintels for the building industry.

This specialised range of lintels includes the proprietary Multi-Rib® T-bar, Rendabar®, J-Bar shelf beam and Cavi-T-Bar, all designed for optimum support of brickwork above clear openings. The innovative design of Galintel® products enables weight savings of up to 40% while maintaining structural rigidity and enhanced load bearing capacity. Galintel® also manufactures Solid Base Angle and a range of traditional flat, angle and T-Bars making it the most comprehensive brand of lintels in the Australian market.

Galintel® products are hot-dip galvanised to Australian Standards which ensures that all surfaces are fully protected.

Being locally manufactured, Galintel® offers the best delivery performance in the industry. With a comprehensive range of stock held across a number of warehouses, next day dispatch is guaranteed for all stock orders.

Galintel® products have been tested by CSIRO Building Products & Systems and comply with the requirements of the Building Code of Australia. Engineering certification for structural adequacy has been verified by independent testing at the University of NSW and Sydney University and Galintel® products are approved by housing authorities and local government bodies in all states.



Galintel®

THE TRUSTED NAME IN GENUINE HOT-DIP GALVANISED STEEL LINTELS

Galintel® from NEPEAN Building & Infrastructure is Australia's leading designer and manufacturer of high quality steel lintels for the building industry. Use the simple guides in this brochure and select the right Galintel® every time for peace of mind, superior performance, long life and durability.

Genuine Galintel® hot-dip galvanised steel lintels are up to 40% lighter than traditional lintels and 40% easier to carry with a high strength to weight ratio.

Better for builders – better for homeowners

The ribbed Galintel® profile creates a superior bond with mortar. The brickwork, mortar and lintel work together to form a composite beam with exceptional strength and load carrying capacity.

Galintel® steel lintels are for both residential and commercial buildings. Builders and homeowners do not have to worry about corroded lintels and cracked brickwork thanks to the generous galvanising layer – including the ends of the product where corrosion often begins.

Durability & corrosion resistance (R3 rating)

All Galintel® products are hot-dip galvanised with a heavy zinc coating of 600g/m^2 which complies with a R3 durability rating. Durability is a function of the thickness of the zinc coating. Black steel is classified as R0 and stainless steel is R4. Galintel® products can achieve an R4 durability rating when coated with a two-part epoxy protective coating (contact NEPEAN Building & Infrastructure for specifications).

Industry compliance

All Galintel® products comply with the following standards:

- Hot-dip galvanised to AS/NZS4680
- R3 durability ratings in accordance with AS/NZS2699.3
- Loads in accordance with AS/NZS1170.1
- Masonry in Small Buildings in accordance with AS/NZS4773.1 Design & AS/NZS4773.2 Construction
- Masonry Structures in accordance with AS3700
- Steel Structures in accordance with AS4100

Compliance with the Building Code of Australia & relevant standards is guaranteed – Galintel® products have CSIRO approval and are backed by research conducted by the University of NSW and Sydney University.

Product warranty

All Galintel® products are guaranteed against defects in materials and workmanship.

NEPEAN Building & Infrastructure further warrants that Galintel® products will suffer no loss of function nor adversely affect masonry for 25 years from the date of installation. For full warranty conditions and registration details please visit **www.galintel.com.au**

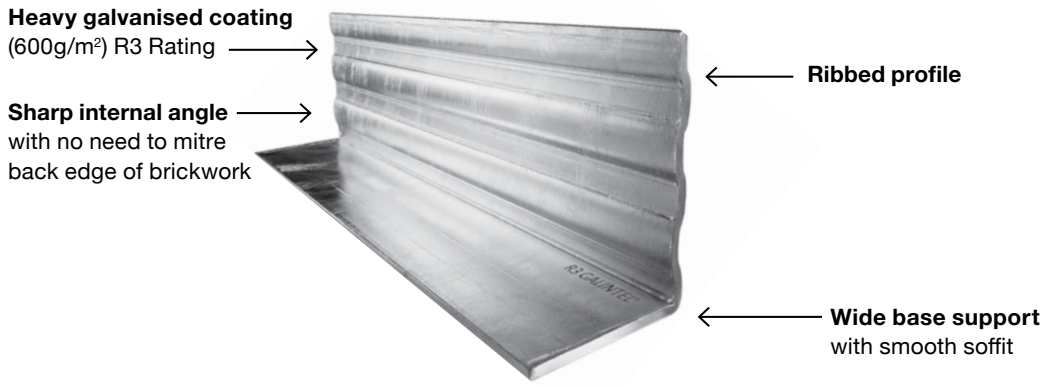
DON'T SETTLE FOR SUBSTITUTES. LOOK FOR THE GENUINE GALINTEL® BRAND.

For load tables and section properties for all **Galintel®** products, please refer to **www.galintel.com.au**

HOT-DIP GALVANISED STEEL LINTEL FEATURES

Galintel® products are hot-dip galvanised to Australian standards to ensure that all surfaces are fully protected.

SOLID BASE ANGLE



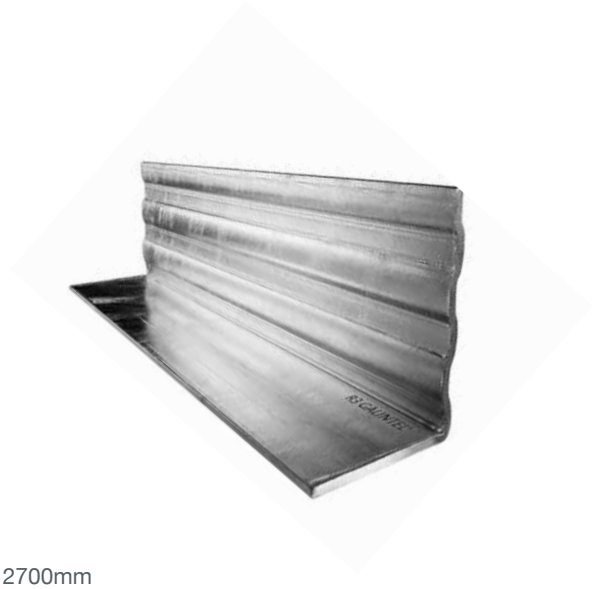
MULTI-RIB® T-BAR

- R3 durability rating
- 25 year Warranty

PRODUCTS

SOLID BASE ANGLES

Galintel® Solid Base angles have been designed to support brickwork over windows & doors with the brickwork, mortar and lintel work together to form a composite beam with exceptional strength and load-carrying capacity. Genuine Galintel® hot dip galvanized Solid Base Angles are 40% lighter than solid lintels (and 40% easier to carry) with a high strength to weight ratio.



Sizes:
100 x 100 x 6mm
150 x 100 x 6mm

Weight guide: (Nominal)
8.5kg/m
11kg/m

Lengths:
900mm to 2700mm
1800mm to 4000mm

Features

- The unique profile provides a recess for mortar bedding on the vertical leg. The bonding of mortar, brickwork and lintel forms a composite beam of superior strength and load bearing capacity
- Hot-dip galvanised to AS/NZS4680
- 40% lighter than conventional steel lintels with a high strength to weight ratio
- R3 Durability Rating to AS/NZS2699.3
- Fully engineered and tested
- Compliant with relevant Australian Building Codes and Australian Standards
- Labelled and barcoded
- 25 year performance warranty
- Australian designed and manufactured

Benefits

- Superior performance
- Easy transportation, storage and handling
- Long life and durability
- Peace of mind
- Cost effective
- Easy identification

Control Joints

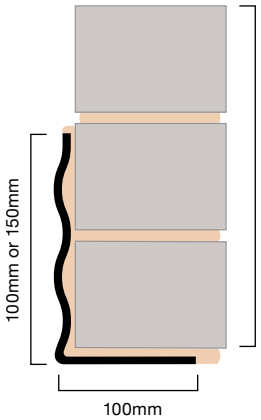
Where control joints are used as a required structural element, loading of the lintel should be reduced by one third.

Propping

For best results all lintels must be propped before bricklaying. Props must be no further than 1.2m apart and must remain in place until the mortar has fully cured.

Composite Action

Galintel® products rely on composite action. Therefore, to achieve ultimate performance, mortar must be present at all contact surfaces between bricks and lintel.



Brick composite beam.
Minimum 3 courses of bricks.

Note: Mortar must be present at all contact surfaces between bricks and lintel.

RENDABAR®

Galintel Rendabar® is a total load bearing bar, fire-rated and specifically designed to facilitate cement rendering. The bond between mortar, brickwork and lintel forms a composite beam of superior strength and structural integrity. The platform leg provides a wide base of support for brickwork and a generous keying area for cement rendering.

Sizes:
100 x 100 x 8mm
150 x 100 x 8mm

Weight guide: (Nominal)
9kg/m
11kg/m

Lengths:
900mm to 2400mm
1800mm to 4000mm

Features

- Fire-rated lintel
- Hot-dip galvanised to AS/NZS4680
- 40% lighter than conventional steel lintels with a high strength to weight ratio
- The bond between mortar, brickwork & lintel forms a composite beam of superior strength & structural rigidity
- Achieves R3 Durability Rating in accordance with AS/NZS2699.3
- Fully engineered & university tested
- Compliant with relevant Australian Building Codes and Australian Standards
- Labelled and barcoded
- 25 year performance warranty
- Australian designed and manufactured

Benefits

- Superior performance
- Easy transportation, storage and handling
- Long life and durability
- Cost effective
- Easy identification
- Peace of mind

Light weight with rigidity

Galintel Rendabar® is considerably lighter than other forms of lintels, contributing to ease of handling and faster construction with less potential damage to green masonry. Mortar bonding with the multi-ribbed section locks the Rendabar® firmly to the masonry, providing superior lateral bracing and rigidity.

Control joints

Where control joints are used as a required structural element, loading of the lintel must be reduced by one-third.

Propping

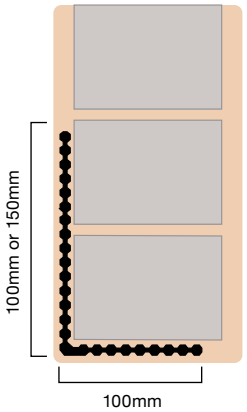
Rendabar® spans must be propped at equal intervals (not more than 1.2m apart) when brickwork is laid up rapidly over and above two courses.

Code compliance

Galintel Rendabar® has been extensively tested by Unisearch Limited, the research and development company of the University of New South Wales, for strength, structural adequacy and compliance with relevant Australian Building Codes and is ABSAC approved.

Composite Action

Galintel® products rely on composite action. Therefore, to achieve ultimate performance, mortar must be present at all contact surfaces between bricks and lintel.



Brick composite beam.
Minimum 3 courses of bricks.

Note: Mortar must be present at all contact surfaces between bricks and Rendabar.

MULTI-RIB T-BAR

Galintel® Multi-Rib T-Bar is a cost effective lintel that provide structural rigidity, high strength-to-weight ratio and resistance to corrosion.

The multi-ribbed profile forms a superior bond with the mortar. This bond between mortar, brickwork and lintel creates a composite beam of superior strength and structural integrity.

The Galintel® Multi-Rib T-Bar is a total load bearing lintel designed to support 230mm of brickwork over a clear opening.

Sizes*:	**Weight guide:** (Nominal)	**Lengths:**
200/7mm (V) x 200/7mm (B)	17kg/m	900mm to 3300mm
200/9mm (V) x 200/9mm (B)	23kg/m	3600mm to 6300mm

* (V) is the vertical section dimension, (B) is the base section dimension.

Features

- Total load bearing lintel designed to support 230mm of brickwork over clear openings
- Hot-dip galvanised in accordance with AS/NZS4680
- 40% lighter than conventional steel lintels with a high strength to weight ratio
- R3 Durability in accordance with AS/NZS2699.3
- Compliant with relevant Australian Building Codes and Australian Standards
- Fully engineered and university tested
- Labelled and barcoded
- 25 year performance warranty
- Australian designed and manufactured

Benefits

- Peace of mind
- Superior performance
- Easy transportation, storage and handling
- Long life and durability
- Cost effective
- Easy identification

Installation

Place Galintel® Multi-Rib T-Bar in position on brick piers with minimum end bearing of 150mm. Prop before bricklaying no further than 1.2 metres apart with props remain in place until mortar has fully cured. Apply mortar (minimum 1:4) to all brick faces in contact with the T-Bar. The same number of courses must be laid internally and externally to prevent twisting of the T-Bar.

The Galintel® Multi-Rib T-Bar is a welded galvanised T-section comprising two multi-ribbed steel plates, 200mm wide with a nominal thickness of 7mm or 9mm (depending on the length).

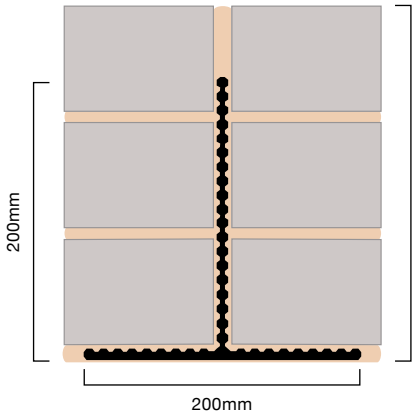
The steel conforms to AS3678-250 with and yield strength of 280 MPa and a minimum ultimate tensile strength of 410 MPa. Welding is conducted to AS4100 and galvanising conforms to AS/NZS 4680.

Composite Action

Galintel® products rely on composite action. To achieve ultimate performance, mortar must be present at all contact surfaces between bricks and lintel.

Control Joints

Where control joints are used as a required structural element, loading of the lintel should be reduced by one third.



Brick composite beam. Minimum 3 courses of bricks.

Note: Mortar must be present at all contact surfaces between bricks and T-Bar.

TRADITIONAL T-BAR

Galintel® Traditional T-Bar is a fully machine welded structural lintel manufactured in Australia using 300MPa steel. Traditional steel sections are used in the support of brickwork over large clear openings and are not reliant on composite action.

Sizes*:	**Weight guide:** (Nominal)	**Lengths:**
200/6mm (V) x 200/6mm (B)	19kg/m	900mm to 2400mm
200/8mm (V) x 200/6mm (B)	23kg/m	2400mm to 3900mm
200/10mm (V) x 200/6mm (B)	26kg/m	4200mm to 6300mm
200/10mm (V) x 200/10mm (B)	32kg/m	2700mm to 6300mm
250/10mm (V) x 200/10mm (B)	36kg/m	5200mm to 6300mm
250/12mm (V) x 200/10mm (B)	40kg/m	5200mm to 6300mm

* (V) is the vertical section dimension, (B) is the base section dimension.

Features

- Hot-dip galvanised to AS/NZS4680
- Comply with Australian Standards and Building Code requirements
- Product certified by Unisearch Limited
- Fully machine welded
- 300 MPa grade steel
- Not reliant upon composite action
- R3 Durability Rating in accordance with AS/NZS2699.3
- Fully engineered and university tested
- Compliant with relevant Australian Building Codes and Australian Standards
- 25 year performance warranty
- Labelled and barcoded

Benefits

- Superior performance
- Easy transportation, storage and handling
- Long life and durability
- Cost effective
- Easy identification

Control Joints

Where control joints are used as a required structural element, loading of the lintel should be reduced by one third.

Installation

Place Traditional T-Bar in position on brick piers, with minimum end bearing of 150mm. Prop before bricklaying. Props must be no further than 1.2 metres apart and must remain in place until mortar has fully cured. The same number of courses must be laid internally and externally to prevent twisting of the T-Bar.

J-BAR SHELF BEAM

The Galintel® J-Bar Shelf Beam is the ideal solution for cavity walls, either double brick, or brick veneer with timber trusses. The J-Bar was developed in response to demand from builders for an economical substitute for built-up steel sections such as parallel flange channel and plate.

Registered design

Sizes*:	**Weight guide:** (Nominal)	**Lengths:**
260/90mm (V) x 200/10mm (B)	48kg/m	4200mm to 6300mm
310/90mm (V) x 200/10mm (B)	55kg/m	4500mm to 6300mm

* (V) is the vertical section dimension, (B) is the base section dimension.

Similar to a T-bar but with a special top flange incorporated into the upright section, the Galintel® J-Bar provides an off-the shelf solution for cavity walls and is hot-dip galvanised, fully engineered and university tested.

The J-Bar is a convenient alternative to custom-made beams such as PFC and flat plate, which have to be fabricated and galvanised.

Galintel® J-Bar is the ideal solution for cavity walls, either double brick, or brick veneer with timber trusses.

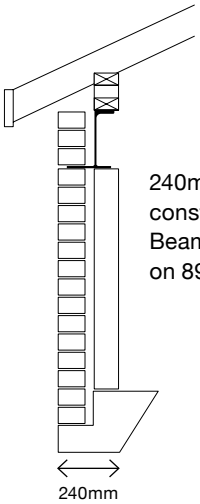
Galintel® J-Bar is a registered design and was developed in response to demand from builders for an economical substitute for heavier fabricated built-up steel sections such as parallel flange channel and plate, providing up to 20% lighter weight than built-up steel.

As with all Galintel® quality products, the J-Bar Shelf Beam is provided with a full product warranty and safe load tables. Galintel® J-Bar is available in section depth of 260mm, is a convenient off the shelf substitution and is fully hot-dip galvanised for extended service life.

The quick, economical solution for cavity walls

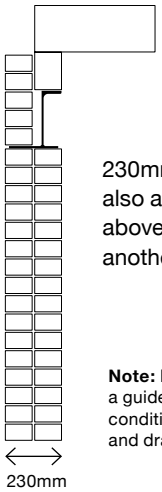
- Header flange pre-drilled & galvanised for timber fixing
- Bottom flange pre-drilled & galvanised for column connection
- Innovative, efficient design
- Up to 20% lighter than built-up steel sections
- Hot-dip galvanised including ends (600g/m^2)
- Standard range of lengths
- Engineered and university tested
- 25 year performance warranty
- Convenient ‘off the shelf’ solution
- R3 durability rating

TYPICAL J-BAR APPLICATIONS



240mm brick veneer construction Shelf Beam sits generally on 89 x 89 SHS.

230mm solid brick wall (garage type).



230mm solid brick (garage type) also allows for either jack stud wall above or stub column supporting another structural member.

Note: Examples shown are intended as a guide only. Please check actual site conditions and refer back to available plans and drawings.

CAVI-T-BAR™

Galintel® Cavi-T-Bar™ is the ideal solution for cavity walls, either double brick, or brick veneer with timber trusses.

Sizes*:
180/8mm (V) x 240/8mm (B)
240/9.5mm (V) x 240/8mm (B)

Weight guide:
31kg/m
41kg/m

Lengths:
2700mm to 4800mm
2700mm to 6300mm

* (V) is the vertical section dimension, (B) is the base section dimension.

The Cavi-T-Bar™ was developed in response to demand from builders for an economical substitute for built-up steel sections such as parallel flange channel and plate. For over 30 years the Australian construction industry has relied on Galintel® galvanised steel lintels as the brand which guarantees stronger, more durable and safer lintels.

Similar to a T-Bar but with a special top flange incorporated into the upright section, the Galintel® Cavi-T-Bar™ provides an off-the-shelf solution for cavity walls, hot-dip galvanised, fully engineered and University tested.

The Cavi-T-Bar™ is a convenient alternative to custom made lintels such as PFC and flat plate beams which have to be fabricated and galvanised.

As with all quality Galintel® products, the Cavi-T-Bar™ is provided with a full product warranty and safe load tables.

Control Joints

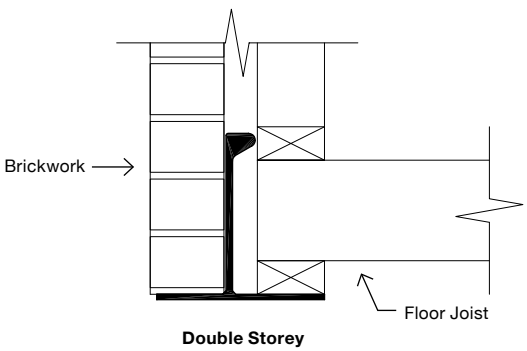
Where control joints are used as a required structural element, loading of the lintel should be reduced by one third.

Features

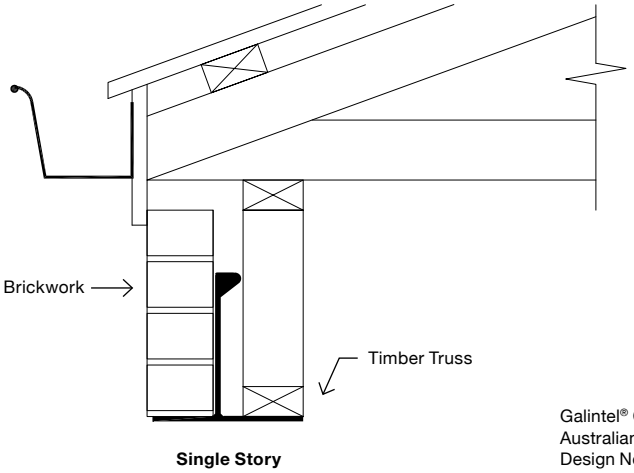
- New versatile lintel
- Convenient, economical substitute for built-up steel sections such as parallel flange channel and plate
- Up to 20% lighter than built-up steel sections of equivalent load capacity
- Hot-dip galvanised (600g/m^2)
- Available ex-stock
- Available in standard lengths
- Fully engineered and university tested
- Top flange for added strength
- Convenient “off the shelf” solution
- 25 year performance warranty
- R3 durability rated

CAVI-T-BAR™ APPLICATIONS

Brick veneer applications:



Double Storey



Single Story

Galintel® Cavi-T-Bar™
Australian Registered
Design No. 306215.

TRADITIONAL ANGLE

Galintel® Traditional Angles are hot rolled merchant bar lintels manufactured from 300Mpa grade steel. Traditional steel sections used in the support of brickwork over clear openings are not reliant on composite action.

Sizes:	Weight guide:	Lengths:
100 x 75 x 10mm	13kg/m	900mm to 3000mm
100 x 100 x 6mm	10kg/m	900mm to 3000mm
100 x 100 x 8mm	12kg/m	900mm to 3000mm
150 x 100 x 10mm	19kg/m	1800mm to 6000mm
200 x 100 x 10mm	23kg/m	5200mm to 6000mm

Features

- Hot-dip galvanised in accordance with AS/NZS4680
- R3 Durability Rating in accordance with AS/NZS2699.3
- Compliant with relevant Australian Building Codes and Australian Standards
- Not reliant on composite action
- Hot rolled merchant bar lintel manufactured from 300MPa Grade Steel
- 25 year performance warranty
- Labelled and barcoded

Benefits

- Superior performance
- Easy transportation, storage and handling
- Long life
- Cost effective
- Easy identification

Propping

For best results, all lintels must be propped before bricklaying. Props must be no further than 1.2m apart and must remain in place until the mortar has fully cured.

TRADITIONAL FLAT BAR

Galintel® Traditional Flat Bar is a hot rolled lintel used to support brickwork over clear openings including windows & doors.

Sizes:	Weight guide:	Lengths:
85 x 7mm	5kg/m	800mm to 1500mm
75 x 10mm	6kg/m	800mm to 1500mm

Features

- Hot-dip galvanised (600g/m^2)
- R3 Durability Rating to AS/NZS2699.3
- Compliant with relevant Australian Building Codes and Australian Standards
- Not reliant on composite action
- Manufactured from 300MPa Grade Steel
- Labelled and barcoded
- 25 year performance warranty

Benefits

- Superior performance
- Easy transportation, storage and handling
- Long life
- Cost effective
- Easy identification

Control Joints

Where control joints are used as a required structural element, loading of the lintel should be reduced by one third.

Propping

For best results, all lintels must be propped before bricklaying. Props must be no further than 1.2m apart and must remain in place until the mortar has fully cured.

FREQUENTLY ASKED QUESTIONS

EVERYTHING YOU NEED TO KNOW ABOUT GALINTEL® PRODUCTS

How do I decide which Galintel® is best for my project?

Your design engineer should determine the type, size and length of Galintel® for the brickwork openings by consulting the relevant technical data and safe load tables.

Why are Galintel® products hot-dip galvanised?

Hot-dip galvanising products are the most economical form of corrosion protection for steel. Brickwork cracking caused by rust displacement is virtually eliminated by galvanising which also offers excellent impact and scratch resistance to cope with the rigours of transport and handling on a building site.

What if I require a nonstandard length Galintel®?

You may use a longer length of Galintel®, which will result in a longer end-bearing length. Where the endbearing length is restricted, you can cut the Galintel® to the required length. The cut end must be cleaned, primed and painted with two coats of zinc-rich paint (minimum 95% zinc content).

Do I need to prop Galintel® products?

Yes. During installation, props must be positioned and not removed until the mortar is cured. This allows the composite beam to form correctly and ensures level alignment of the brickwork. Props should be no further apart than 1.2m.

How many courses of bricks are needed above a steel lintel?

The Building Code of Australia requires that not less than three courses of brick must be used above a steel lintel to form an arching effect.

Can I weld to a Galintel®?

We do not recommend welding of Galintel® products as welding destroys the protective zinc coating. If welding is required, consult your design engineer.

Which Galintel® product is best suited for a rendered finish?

Galintel Rendabar® is ideal, because it is specifically designed for rendered applications.

Is there a Galintel® available for fire-rated structures?

Yes. Galintel Rendabar® has a fire rating of up to two hours, depending on the application. To achieve the designed fire rating, Galintel Rendabar® must be cement-rendered after installation. The rendering must also meet relevant building codes and standards. For design information, refer to the Rendabar® Fire Rated Safe Load Table.

Are Galintel® products suitable for buildings near the coast or in severe environments?

Galintel® products are suitable for use in these areas, but additional coatings may be required. AS2312 specifies the types of additional protective coating needed to maintain the required service life in highly corrosive environments.

What guarantees does Galintel® offer?

NEPEAN Building & Infrastructure guarantees that all Galintel® products are free from defects in material and workmanship.

Galintel® products have been appraised by the CSIRO, and comply with the requirements of the BCA and are designed and tested to meet the relevant sections of AS3700:2001 – Masonry structures.

Galintel® products meet the requirements of the R3 durability classification, as defined in AS/NZS2699.3:2002.

Galintel® products have been recognised by the Australian Design Council with an Australian Design Award.

How do I identify a genuine Galintel® product?

Galintel® products can be identified by their ribbed profile. All products in the Galintel® range are also clearly labelled to show the name, size, length, unit weight, date of manufacture and durability classification.

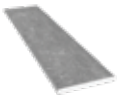
How do I ensure full composite action is achieved?

By ensuring that mortar is present at all contact surfaces between bricks and lintel and that the lintel is correctly propped during installation.

STOCK LENGTH GUIDE

- Always refer to engineer's specification for correct lintel section, size & installation
- Check availability of stock lengths before ordering

Flat Bar



85x7 Traditional	75x10 Traditional
800	800
900	900
1000	1000
1100	1100
1200	1200
1500	1300
	1400
	1500

Angle

100x100x6 Solid Base	150x100x6 Solid Base	100x75x10 Traditional	150x100x10 Traditional	200x100x10 Traditional	100x100x6 Traditional (Victoria Only)	100x100x8 Traditional (Victoria Only)
900	1800	900	1800	5200	900	900
1200	2100	1200	2100	5400	1200	1200
1500	2400	1500	2400	6000	1500	1500
1800	2700	1800	2700		1800	1800
2100	3000	2100	3000		2100	2100
2400	3300	2400	3300		2400	2400
2700	3600	2700	3600		2700	2700
	4000	3000	4000		3000	3000
			4200			
			4500			
			5000			
			5200			
			5500			
			6000			

T-Bar

200/7x200/7 Multi Rib	200/9x200/9 Multi Rib	200/6x200/6 Traditional	200/8x200/6 Traditional	200/10x200/6 Traditional (NSW & Qld only)	200/10x200/10 Traditional	250/10x200/10 Traditional	250/12x200/10 Traditional
900	3600	900	2400	4200	2700	5200	5200
1200	3900	1200	2700	4500	3000	5400	5400
1500	4200	1500	3000	4800	3300	5700	5700
1800	4500	1800	3300	5100	3600	6000	6000
2100	4800	2100	3600	5400	3900	6300	6300
2400	5100	2400	3900	5700	4200		
2700	5400			6000	4500		
3000	5700			6300	4800		
3300	6000				5200		
	6300				5400		
					5700		
					6000		
					6300		

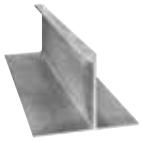
Notes

- All lengths in the above tables are in millimetres
- Traditional Angle sizes 100x100x6mm & 100x100x8mm stocked in Victoria only
- Traditional T-Bar size 200/10x200/6 stocked in NSW and Qld only
- Above information to be used as a guide only & may change without notice

Rendabar®

100x100x8 Rendabar	150x100x8 Rendabar
900	1800
1200	2100
1500	2400
1800	2700
2100	3000
2400	3300
	3600
	4000

Cavi-T-Bar™



180/8mmx240/8mm Cavi-T-Bar	240/9.5mmx240/8mm Cavi-T-Bar
2700	2700
3000	3000
3300	3300
3600	3600
3900	3900
4200	4200
4500	4500
4800	4800
	5100
	5400
	5700
	6000
	6300

J-Bar

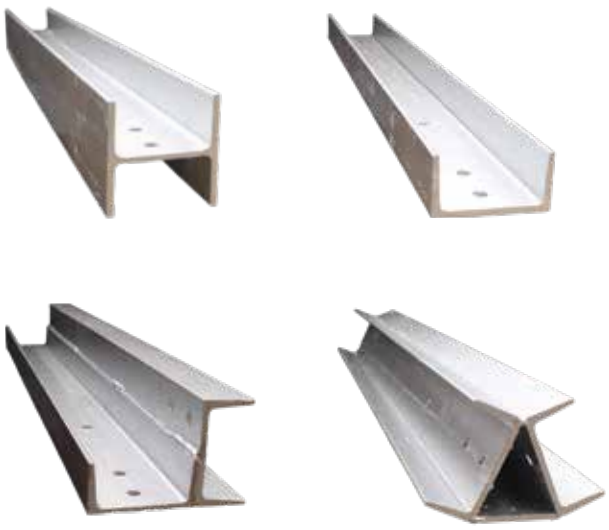
260/90x200/10 J-Bar	310/90x200/10 J-Bar
4200	4500
4500	4800
4800	5100
5100	5400
5400	5700
5700	6000
6000	6300
6300	

ALSO AVAILABLE FROM GALINTEL®

Heavy Duty Retaining Wall Posts

100mm Series to suit 75mm sleepers

150mm Series to suit 100mm sleepers



Dual Stair Stringers

Available in 1-17 Treads

Mono Stair Stringers

Available in 2-17 Treads

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Expanded and perforated metal

Galserv®

Hot-dip galvanising

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