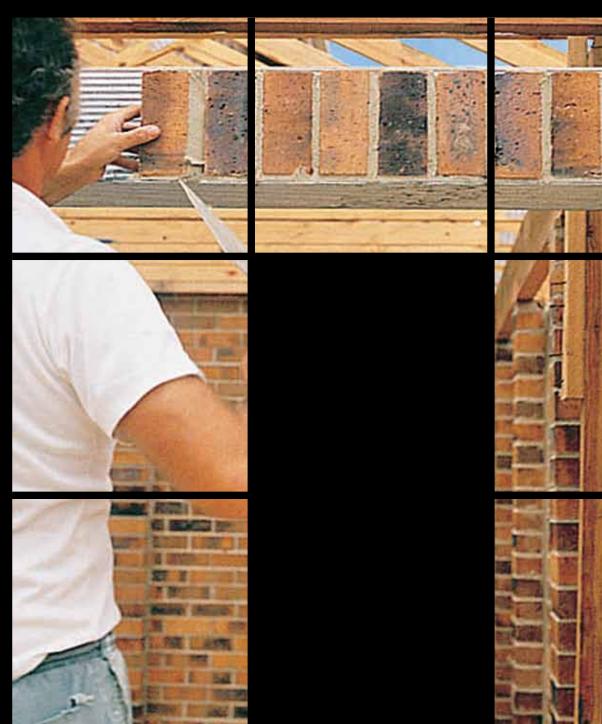


тм

Galintel® Steel Lintels





NEPEAN™ Building & Infrastructure

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

Under the renowned Galintel® brand, NEPEAN Building & Infrastructure designs and manufactures Australia's highest quality steel lintels for the building industry.

The specialised range of lintels includes flats, angles and T-bars, 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 strength, structural rigidity and load bearing capacity.

Galintel® products are hot-dip galvanised to Australian Standards to ensure that all surfaces (legs, edges and ends) are fully protected.

CONTENTS

Company Profile	2
General Information	3
Solid Base Angles & Flats	4
Traditional Angles	6
Rendabar® NO LONGER AVAILABLE	7
Multi-Rib T-Bar NO LONGER AVAI	LABLE
Traditional T-Bar	10
Cavi-T-Bar™	11
T-Bar Section Properties	13
Frequently Asked Question	1514
Stock Length Guide	15

NOTE:

This information is provided as a guide only. Some products are no longer available for order. Please consult with your engineer or retailer for suitable substitutes.





GALINTEL® HOT-DIP GALVANISED STEEL LINTELS

BEST LINTEL BAR NONE

R3 DURABILITY RATING 25-YEAR WARRANTY*

Use the simple guides in this brochure and select the right Galintel® every time, for:

- > Peace of mind
- Superior performance
- Long life and durability

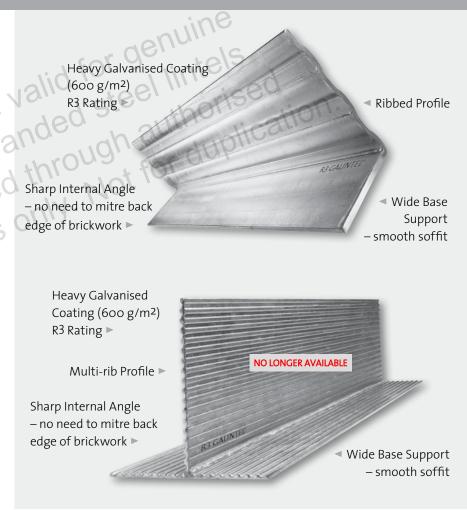
Genuine Galintel® hot-dip galvanised steel lintels are 40% lighter than solid lintels (and 40% easier to carry) with a high strength to weight ratio.

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

You won't 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.

All Galintel® bars comply with the following standards:

- > Hot-dip galvanised to AS/NZS4680:2006
- > Up to R3 durability ratings in accordance with AS/NZS2699.3:2001
- > Loads in accordance with AS/NZS1170.1:2002



Durability & corrosion resistance (R3 rating)

All Galintel® products are hot-dip galvanised with a heavy zinc coating of 600 g/m² which complies with an R3 durability rating. Durability is a function of the thickness of the zinc coating (black steel is classified as RO and stainless steel as R5). Galintels® can achieve an R4 durability rating when coated with a two-part epoxy coating (contact NEPEAN Building & Infrastructure for specifications).

Product Warranty

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

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

Don't settle for substitutes. Look for the Galintel® brand.







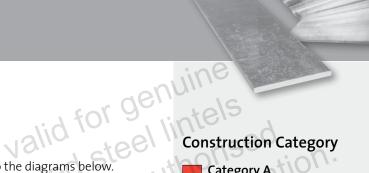






GALINTEL® SOLID BASE ANGLES & FLATS

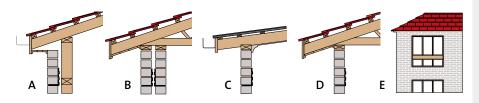
OUICK SELECTION GUIDE



How to use the quick selection guide

- 1. Determine the Loading Category by referring to the diagrams below
- 2. Determine the span of the opening, including end bearings, and use the Clear Span Length table to find the appropriate Galintel® profile.
- 3. Determine the load to be applied to the Galintel® and refer to the Safe Load tables on page 5 to find the correct profile size and stock length.

Loading Category B (cavity wall construction), 1800mm span with UDL of 1400 kg/m. From the safe load tables on page 5, this requires a Galintel® Solid Base Angle with 150mm x 100mm profile and stock length of 2100mm.



These diagrams represent general domestic and light commercial construction only, using conventional framing materials and standard building practices.

All load-bearing walls must have at least three courses of bricks over the opening. The wall above the opening should not be subjected to major loads other than those from normal roof, ceiling and floors. Avoid point loads above the opening, such as hot water tanks and roof storage areas.

Category E loadings that do not comply with the above conditions should be referred to a structural engineer.

Construction Category

Category A

Non-load bearing brick veneer with separate structural timber frame.

Category B

Cavity wall equally supported on both skins. Supported roof span < 8m.

Category C

Lightweight sheet roof and ceiling supported on single skin. Supported roof span < 8m.

Category D

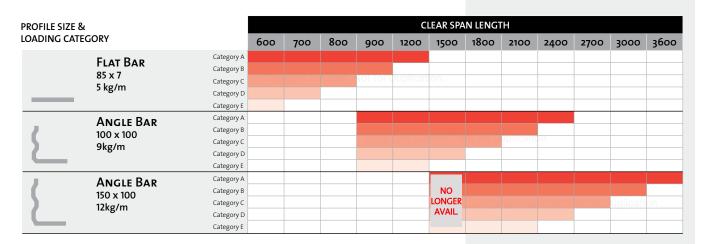
Lightweight timber truss, tiled roof and sheet ceiling supported on single skin. Supported roof span < 8m.

Category E

Load-bearing internal brickwork under upper storeys. Supported floor span < 8m.

Now find the right Galintel® profile for your clear span

Follow the colour code from the loading categories above. Add end bearing of 100-150mm to both ends of span.



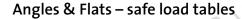
Disclaimer: Information contained in this brochure does not constitute an offer and is supplied in good faith to aid the user in the correct selection of our products. Every care has been taken to ensure that the information is correct; however, we cannot guarantee its accuracy or completeness and we assume no responsibility for errors or omissions or for any consequences of reliance on this publication.

NEPEAN Building & Infrastructure is committed to continual improvements in our products and we reserve the right to change specifications, details and designs without notice. All dimensions and masses in this brochure are nominal

Refer to load tables on page 5 for correct profile size and length

GALINTEL® SOLID BASE ANGLES & FLATS

SAFE LOAD TABLES



Angles & Flats – safe load tables

Unless otherwise indicated, load values in the table

For example, for a span of more a load of one ' Julintel® ma
...um long term deflect a load of 949 kg/m applied safely, with a maximum long term deflection of 1/600 span or 3.5 mm (2100/600 = 3.5).

All tables are intended as a guide only. Qualified expert advice should be sought in deciding the suitability of any structural product for a construction application.

UDL = Uniform distributed load

				FLAT BAR		
FLAT BAR	Span (mm)	600	700	800	900	1000
85 x 7	Bar Length (mm)	800	900	1000	1100	1200
5 kg/m	Total Load (kg)	43.7	32.1	24.5	19.4	15.7
	UDL (kg/m)	72.8	45.9	30.6	21.6	15.7
	Total Load (kg)	72.8	53.4	40.9	32.3	26.2
	UDL (kg/m)	121.3	76.3	51.1	35.9	26.2

ANGLE BAR					SOLID BA	SE ANGLE			
100 x 100 x 6	Span (mm)	1000	1200	1500	1800	2100	2400	2700	3000
9kg/m	Bar Length (mm)	1200	1500	1800	2100	2400	2700	3000*	3300*
	Load (kg)	2083	1736	1265	878	645	486	384	311
	UDL (kg/m)	2083	1447	843	488	307	203	142	104
}	Load (kg)	2083	1736	1389	1157	992	811	641	519
	UDL (kg/m)	2083	1447	926	643	472	338	237	173

ANGLE BAR		SOLID BASE ANGLE									
150 x 100 x 6	Span (mm)	1500	1800	2100	2400	2700	3000	3600			
12kg/m	Bar Length (mm)	1800	2100	2400	2700	3000	3300	4000			
,	Load (kg)	3024	2520	1993	1526	1206	976	676			
	UDL (kg/m)	2016	1400	949	636	447	325	188			
	Load (kg)	3024	2520	2100	1890	1680	1512	1312			
	UDL (kg/m)	2016	1400	1000	788	622	504	364			

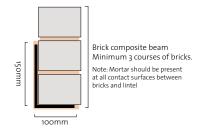
🗀 Loads not limited by deflection 🚾 Loads limited by short term deflection of 1/600 span 🧰 Loads limited by short term deflection of 1/360 span

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.

GALINTEL® TRADITIONAL ANGLES

QUICK SELECTION GUIDE & SAFE LOAD TABLES



profile and length f Quick selection guide

Use the Quick Selection Table to find an appropriate profile and length for the required span and Construction Category (see page 4). Include end bearing lengths of 100mm on both ends of bar (for openings up to 1000mm) or 150mm (for openings greater than 1000mm). Use the Safe Load Tables to determine which product will safely carry the load.

Ouick Selection Table

Quiek Selection Tubic	1911.				CLEAR SPAN L	.ENGTH (mm	1)		
TRADITIONAL ANGLE 100 x 75 x 10 13 kg/m	Category A Category B Category C Category D	900	1200	1500	1800	2100	2400	2700	3000
	Category E								

Traditional		2100	2400	2700	3000	3300	3600	4000
ANGLE	Category A							
150 x 100 x 10	Category B							
19 kg/m	Category C							
	Category D							
	Category E							

Galintel® Traditional Angles – safe load tables

Note a minimum of three courses of bricks must be laid above the lintel.

	Loads limited by deflection	of 1/600 span
--	-----------------------------	---------------

Span (mm)	900	1200	1500	1800	2100	2400	2700
Bar Length (mm)	1200	1500	1800	2100	2400	2700	3000
Total Load (kg)	1345	1005	805	670	575	500	415
UDL (kg/m)	1494	840	538	373	274	210	154
Point Load (kg)	670	500	400	335	285	250	220
Span (mm)	1800	2100	2400	2700	3000	3300	3600
Bar Length (mm)	2100	2400	2700	3000	3300	3600	4000
Total Load (kg)	3205	2355	1800	1425	1150	950	800
UDL (kg/m)	1781	1121	751	527	384	289	222
Daint Land (kg)	1600	1225	1010	800	645	535	450
	Bar Length (mm) Total Load (kg) UDL (kg/m) Point Load (kg) Span (mm) Bar Length (mm) Total Load (kg) UDL (kg/m)	Bar Length (mm) Total Load (kg) UDL (kg/m) Point Load (kg) 5pan (mm) Bar Length (mm) Total Load (kg) 3205 UDL (kg/m) 1781	Bar Length (mm) 1200 1500 Total Load (kg) 1345 1005 UDL (kg/m) 1494 840 Point Load (kg) 670 500 Span (mm) 1800 2100 Bar Length (mm) 2100 2400 Total Load (kg) 3205 2355 UDL (kg/m) 1781 1121	Bar Length (mm) 1200 1500 1800 Total Load (kg) 1345 1005 805 UDL (kg/m) 1494 840 538 Point Load (kg) 670 500 400 Span (mm) 1800 2100 2400 Bar Length (mm) 2100 2400 2700 Total Load (kg) 3205 2355 1800 UDL (kg/m) 1781 1121 751	Bar Length (mm) 1200 1500 1800 2100 Total Load (kg) 1345 1005 805 670 UDL (kg/m) 1494 840 538 373 Point Load (kg) 670 500 400 335 Span (mm) 1800 2100 2400 2700 Bar Length (mm) 2100 2400 2700 3000 Total Load (kg) 3205 2355 1800 1425 UDL (kg/m) 1781 1121 751 527	Bar Length (mm) 1200 1500 1800 2100 2400 Total Load (kg) 1345 1005 805 670 575 UDL (kg/m) 1494 840 538 373 274 Point Load (kg) 670 500 400 335 285 Span (mm) 1800 2100 2400 2700 3000 Bar Length (mm) 2100 2400 2700 3000 3300 Total Load (kg) 3205 2355 1800 1425 1150	Bar Length (mm) 1200 1500 1800 2100 2400 2700 Total Load (kg) 1345 1005 805 670 575 500 UDL (kg/m) 1494 840 538 373 274 210 Point Load (kg) 670 500 400 335 285 250 Span (mm) 1800 2100 2400 2700 3000 3300 3600 Bar Length (mm) 2100 2400 2700 3000 3300 3600 Total Load (kg) 3205 2355 1800 1425 1150 950 UDL (kg/m) 1781 1121 751 527 384 289

Notes on safe load tables for **Traditional Angles**

Loads given are total (allowable) loads including lintel and brickwork.

These load tables assume that bricks

and props fully restrain the lintel against twisting and local buckling of compression leg. Non-composite action was used in the calculations. UDL for each Construction Category was based on 8m of supported span

of floor or roof (of which 4m is taken by the section being considered). Six courses of bricks were considered for each category. UDLs for each Loading Category in kg/m were: A - 124, B - 374, C – 391, D – 605, E – 2202, F – 1020.

GALINTEL RENDABAR®

SAFE LOAD TABLES (100 x 100)



Please be advised this product is no longer available for order, information included for reference only.



Galintel Rendabar® is a total load bearing bar, 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.

Light weight, rigidity

Galintel Rendabars® are considerably lighter than other forms of lintels, contributing to ease of handling and faster construction and 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.

Rendabar		POINT LOAD (kg) 600mm Truss Spacing										
100 x 100 x 8	Span (mm)	900	1200	1500	1800	2100	2400					
9 kg/m	Rendabar (mm)	1200	1500	1800	2100	2400	2700					
Ī	Brick courses 3	895	430	510	335	350	235					
İ	4	1560	710	805	490	470	290					
Ī	5	1875	845	940	570	530	315					
	6	2205	990	1100	655	610	360					

RENDABAR		POINT LOAD (kg) 900mm Truss Spacing								
100 x 100 x 8	Span (mm)	900	1200	1500	1800	2100	2400			
9 kg/m	Rendabar (mm)	1200	1500	1800	2100	2400	2700			
	Brick courses 3	595	570	545	260	290	210			
	4	1040	950	855	380	395	385			
	5	1250	1125	1005	440	445	425			
-	6	1470	1320	1170	510	510	480			

RENDABAR		DISTRIBUTED LOAD (kg/m)										
100 x 100 x 8	Span (mm)	900	1200	1500	1800	2100	2400					
9 kg/m	Rendabar (mm)	1200	1500	1800	2100	2400	2700					
	Brick courses 3	1120	805	615	490	400	330					
	4	1950	1335	965	720	540	410					
	5	2340	1585	1130	825	610	450					
-	6	2760	1860	1320	955	700	505					

Fire-rated Rendabar® – safe load table (100 x 100)

Use this table when a fire resistance rating is required (at least 15mm of cement render must be applied to underside of lintel).

RENDABAR		MAXIMUM LOAD (kg/m)								
100 x 100 x 8	Span (mm)		600	900	1200	1500	1800	2100		
9 kg/m	Rendabar (mm)		900	1200	1500	1800	2100	2400		
	Fire Resistance Level	60 min	6810	3025	1705	1090	755	555		
	Fire Resistance Level	90 min	5060	2250	1265	810	560	415		
£	Fire Resistance Level	120 min	4445	1975	1110	710	495	365		

C.S.I.R.O. Opinion FOC-1242

GALINTEL RENDABAR®

SAFE LOAD TABLES (150 x 100)



Please be advised this product is no longer available for order, information included for reference only.

Control joints

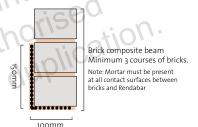
Where control joints are used as a required structural element, loading of the lintel must be reduced by one-third.

Propping

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

Code compliance

Galintel Rendabars® have 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. ABSAC approved (Technical opinion No.205).



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.

RENDABAR	POINT LOAD (kg) 600mm Truss Spacing									
150 x 100 x 8	Span (mm)	1800	2100	2400	2700	3000	3300			
11 kg/m	Rendabar (mm)	2100	2400	2700	3000	3300	3600			
	Brick courses 3	390	385	250	N/A	N/A	N/A			
	4	600	615	410	425	305	300			
	5	785	830	575	620	470	485			
	6	910	975	685	760	585	615			

Rendabar		POINT LOAD (kg) 900mm Truss Spacing								
150 x 100 x 8	Span (mm)	1800	2100	2400	2700	3000	3300			
11 kg/m	Rendabar (mm)	2100	2400	2700	3000	3300	3600			
	Brick courses 3	305	325	330	N/A	N/A	N/A			
	4	470	510	545	325	315	305			
	5	615	690	765	475	485	490			
	6	705	810	915	575	600	625			

Rendabar		DISTRIBUTED LOAD (kg/m)								
150 x 100 x 8	Span (mm)	1800	2100	2400	2700	3000	3300			
11 kg/m	Rendabar (mm)	2100	2400	2700	3000	3300	3600			
	Brick courses 3	570	445	350	N/A	N/A	N/A			
	4	875	705	575	475	390	325			
	5	1150	950	805	690	600	525			
6	6	1325	1120	965	850	745	665			

N/A indicates not applicable

Fire-rated Rendabar® – safe load table (150 x 100)

Use this table when a fire resistance rating is required (at least 15mm of cement render must be applied to underside of lintel).

RENDABAR		MAXIMUM LOAD (kg/m)								
150 x 100 x 8	Span (mm)		1500	1800	2100	2400	2700	3000	3300	
11 kg/m	Rendabar (mm)		1800	2100	2400	2700	3000	3300	3600	
	Fire Resistance Level	60 min	1220	845	620	475	375	305	250	
	Fire Resistance Level	90 min	905	630	460	355	280	225	N/A	
	Fire Resistance Level	120 min	795	550	405	310	245	N/A	N/A	

C.S.I.R.O. Opinion FOC-1242

GALINTEL® MULTI-RIB T-BAR

SAFE LOAD TABLES



Please be advised this product is no longer available for order, information included for reference only.

Galintel® Multi-Rib T-Bars are costeffective lintels 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 brickwork over a clear opening.

Installation

Place Galintel® Multi-Rib 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.

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.

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.

Control Joints

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





200mm

Brick composite beam Minimum 3 courses of bricks. Note: Mortar must be present at all contact surfaces between bricks and T-Bar

Notes on safe load tables for Multi-Rib T-Bar

The tables show the number of brick courses needed to safely carry the total load across the clear span opening.

Determine the load to be carried by the T-Bar (e.g. roof, framing, etc., plus live load allowance) but excluding lintel and bricks.

Total load is expressed as kg for point loads or kg/m for distributed loads. Where more than 4 equal point loads are applied, use the Distributed Load tables.

The spans shown are clear openings. The length of T-Bar ordered must include a minimum end bearing allowance of 150mm at both ends.

Galintel® Multi-Rib T-Bar safe load tables

MULTI-RIB T-BAR			POINT LOAD (kg			DIST	RIBUTED LOAD (k	g/m)
200 x 7 (vertical leg)	Span (mm)	2400	2700	3000		2400	2700	3000
200 x 7 (platform leg) 18 kg/m	T-Bar Length	2700	3000	3300		2700	3000	3300
io kg/iii	Brick courses 3	2735	2700	2395	3	1135	1010	910
	4	3310	3310	2980	4	1380	1225	1100
	5	4520	4215	3745	5	1880	1670	1505
	6	5730	5280	4690	6	2385	2120	1910

MULTI-RIB T-BAR		POINT LOAD (kg)				DISTRIBUTED LOAD (kg/m)			
200 x 9 (vertical leg)	Span (mm)	4800	5100	5400		4800	5100	5400	
200 x 9 (platform leg) 23 kg/m	T-Bar Length	5100	5400	5700		5100	5400	5700	
23 Kg/III	Brick courses 3	830	730	650	3	270	230	190	
	4	1110	980	870	4	370	300	250	
	5	1770	1570	1400	5	590	490	410	
	6	2650	2350	2090	6	880	730	620	

The Galintel® T-Bar is a welded galvanised T-section comprising two multi-ribbed steel plates, 200mm wide with a nominal thickness of 7 or 9mm (depending on the length). The steel conforms to AS3678-250 with a minimum ultimate tensile strength of 410 MPa and yield strength of 280 MPa. Welding is conducted to the requirements of AS4100-1990 and galvanising conforms to AS/NZS 4680:2006.

Galintel® Traditional T-bars

SAFE LOAD TABLES



Traditional T-Bar features

- > Designed and manufactured in Australia
- > Comply with Australian Standards and Building Code requirements
- Manufactured under process-based quality control requirements
- Product certified by Unisearch Limited
- > Fully machine welded
- 300 MPa grade steel
- > All surfaces, including ends, fully hot-dip galvanised with 600 g/m² zinc coating
- R3 durability rating as standard finish

Control Joints
Where 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.

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.

Notes on safe load tables for Traditional T-Bar

These load tables assume that:

- > The web of the T-Bar is vertical
- The T-Bar is simply supported at both ends
- > The T-Bar is loaded such that the load acts vertically and equally on both sides of the web
- > The T-Bar can be considered to be fully supported laterally along its entire length
- > UDL loads are constant along the length of the bar
- > All loads, including the T-Bar and any brickwork, are considered
- > Hot-dip galvanised to AS/ NZS4680:2006
- > Loads in accordance with AS/ NZS1170.1:2002

If any of these conditions is not satisfied, the design should be referred to a qualified structural engineer.

Galintel® Traditional T-Bars – safe load tables

Note a minimum of three courses of bricks must be laid above the lintel.

Web = Vertical

Flange = Base or horizontal

Loads limited by deflection of 1/500 span

TRADITIONAL	Г-вдг Span (mm)
200 x 10 web	Bar Length (mm)
200 x 10 flange 33 kg/m	UDL (kg/m)
33 Kg/III	Point Load (kg)

2400	2700	3000	4900	5100	5700	6000
2700	3000	3300	5200	5400	6000	6300
2806	2227	<u>1750</u>	409	363	261	224
3435	3060	2760	1265	1170	935	845

TRADITIONAL	T-BAR Span (mm)
250 x 10 web	Bar Length (mm)
200 x 10 flange 37 kg/m	UDL (kg/m)
37 kg/III	Point Load (kg)

2/100	4900	5100	5300	5700	6000
NO LONGER	5200	5400	NO LONGER	6000	6300
AVAILABLE	687	635	AVAILABLE	509	450
3435	1700	1635	1570	1465	1390

TRADITIONAL	T-BAR Span (mm)
250 x 12 web	Bar Length (mm)
200 x 10 flange 41 kg/m	UDL (kg/m)
41 kg/m	Point Load (kg)

4900	5100	5700
5200	5400	6000
812	olintol®721 lot for	518
2510	2320	1860

GALINTEL® CAVI-T-BAR

SAFE LOAD TABLES



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

Galintel Cavi-T-Bar™ Lintel

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

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.

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

Control Joints (

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

Cavi-T-Bar™ features

- New versatile lintel beam
- 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
- > Fully hot-dip galvanised (600 g/m²)
- > Available ex-stock from accredited Galintel® distributors
- > Available in standard lengths
- > Fully engineered and university tested
- > Full product warranty

Galintel Cavi-T-Bar™ Safe Load Tables

Vertical Leg 180 x 8 Platform Leg 250 x 8 Mass 31 kg/m

Span (mm)	2400	2700	3000	3300	3600
Bar Length (mm)	2700	3000	3300	3600	3900
UDL (kg/m)	2800	2200	1760	1385	1080
Point Load (kg)	3570	3130	2770	2480	2230

Vertical Leg 240 x 9.5 Platform Leg 250 x 8 Mass 41 kg/m

Span (mm)	2400	3000	3300	3600	4900	5100	5300	5700	6000
Bar Length (mm)	2700	3300	3600	3900	5200	5400	5600	6000	6300
UDL (kg/m)	5680	3520	2850	2340	1110	990	885	715	615
Point Load (kg)	7250	5550	4920	4400	2880	2720	2570	2300	2130

Loads limited by deflection of 1/500 span

Notes on Safe Load Tables for Cavi-T-Bar™

These load tables assume:

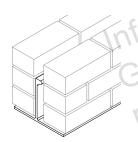
- > The web of the Cavi-T-Bar™ is vertical.
- > The Cavi-T-Bar™ is simply supported at both ends.
- > The Cavi-T-Bar™ is loaded such that the load acts vertically and equally on both sides of the web.
- > The Cavi-T-Bar™ is considered as being laterally unrestrained for the full span length.
- > UDL loads are constant along the length of the bar.
- > Point loads act at mid-span.
- > 150mm minimum bearing support on to brickwork.
- ➤ Hot-dip galvanising to AS/NZS4680:2006.
- ➤ Loads are in accordance with AS/NZS1170.1:2002.

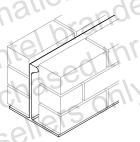
GALINTEL CAVI-T-BAR™

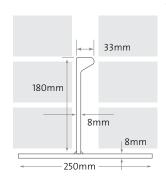
APPLICATIONS

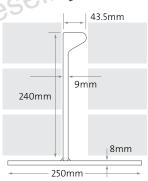


Cavity Brick Applications



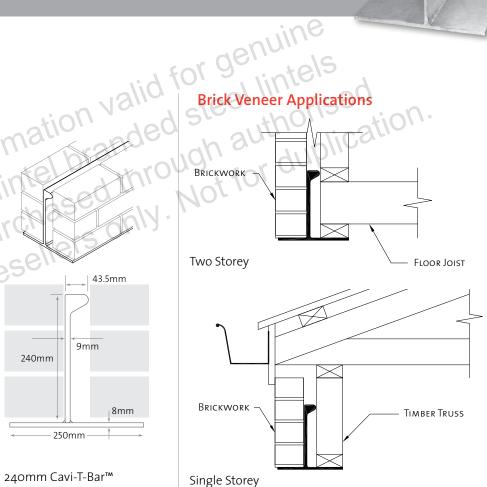




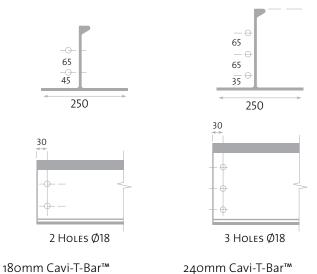


180mm Cavi-T-Bar™

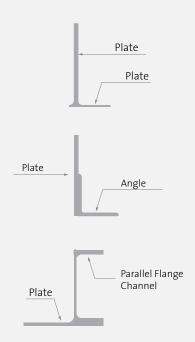
240mm Cavi-T-Bar™



Standard Bolt Hole Details

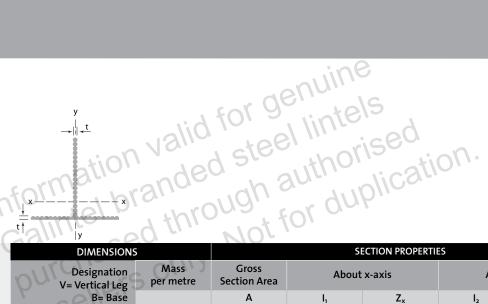


Typical Built-up Steel Sections Replaced by Cavi-T-Bar™

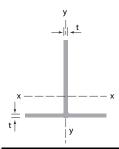


GALINTEL® T-BARS

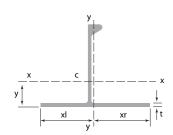
SECTION PROPERTIES



Мицті-Rів	DIMENSIONS	SECTION PROPERTIES					
T-BAR	Designation V= Vertical Leg	Mass per metre	Gross Section Area	About x-axis		About y axis	
	B= Base		Α	l ₁	Z _x	l ₂	$Z_{2t,b}$
	mm x mm	kg/m	mm²	10 ⁶ mm ⁴	10 ³ mm ³	10 ⁶ mm ⁴	10 ³ mm ³
	200x7(V) 200x7(B)	16.2	2060	7.77	52.42	3.45	36.34
	200x9(V) 200x9(B)	22.1	2820	11.1	74.67	4.6	45.41



TRADITIONAL	TRADITIONAL T-BAR Designation V= Vertical Leg B= Base DIMENSIONS Mass per metre		SECTION PROPERTIES					
T-BAR			Ahout x-axis		x-axis	About y axis		
			Α	l _x	Z _x	l _y	Z _y	
	mm x mm	kg/m	mm²	10 ⁶ mm ⁴	10³mm³	10 ⁶ mm ⁴	10³mm³	
	200x10(V) 200x10(B)	31.6	4025	17.76	116.2	6.68	66.8	
	250x10(V) 200x10(B)	35.5	4525	31.92	174.3	6.69	66.9	
	250x12(V) 200x10(B)	39.4	5025	36.05	203.3	6.70	67.0	



Cavi-T-Bar	DIMENSION	SECTION PROPERTIES						
CAVI-I-DAR	Designation V= Vertical Leg	Mass per metre	Gross Section Area	About	x-axis		About y axis	
	B= Base		Α	l _x	Z _x	l _y	Z _{xl}	Z_{xr}
	mm x mm	kg/m	mm²	10 ⁶ mm ⁴	10 ³ mm ³	10 ⁶ mm ⁴	10 ³ mm ³	10 ³ mm ³
	180x8(V) 250x8(B)	30.7	3910	18.53	316.88	10.60	87.92	81.9
	240x9(V) 250x8(B)	40.4	5152	46.61	481.90	10.90	92.62	82.4

Designation: Vertical Leg (V) = Height x Thickness (t)
Base (B) = Width x Thickness (t)

FREQUENTLY ASKED QUESTIONS

EVERYTHING YOU NEED TO KNOW ABOUT GALINTELS®

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 (HDG) is the most economical form of providing corrosion protection for steel, to prevent rust. Brickwork cracking caused by rust displacement is virtually eliminated by the corrosion protection of HDG. HDG 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 a zinc-rich paint (minimum 95% zinc content). However, product warranty would not apply.

Do I need to prop Galintels°?

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 Cod-hat not 1 that not less than three courses of bricks must be used above a steel lintel to form an arching effect.

Can I weld to a Galintel[®]?

We don't recommend that you perform welding on 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 application?

Galintel Rendabar® is ideal, because it is specifically designed and developed 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, the 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 Galintels[®] suitable for buildings near the coast or in severe environments?

Galintels® 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 do Galintels offer?

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

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

Galintels® 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?

Galintels® 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, month/year 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.

Information contained in this brochure is supplied in good faith and with the view to assist the user in the correct selection of our products. While every care is taken to ensure that the information contained in this brochure is correct, no warranty is made nor is any condition expressed or implied. As the use of products sold is beyond our control, a condition of purchase is that the purchaser accepts responsibility for ensuring that products purchased are suitable for the intended use. NEPEAN Building & Infrastructure is committed to continual product improvement and therefore reserves the right to change details and designs without notice. © NEPEAN Building & Infrastructure, September 2013.

GALINTEL® STOCK LENGTH GUIDE



Traditional Flat

Solid Base Angle

Traditional Angle

Rendabar

Multi-Rib T-Bar

Traditional T-Bar

Cavi-T-Bar™

Flat Bar

85x7 Traditional	75x10 Traditional
800	800
900	900
1000	1000
1100	1100
1200	1200
1500	1300
	1400
	1500
	1600
	1700
	1800

Angle	100x100x6 Solid Base	150x100x6 Solid Base	100x75x10 Traditional	150x100x10 Traditional	200x100x10 Traditional	100x100x6 Traditional (Victoria Only)	100x100x8 Traditional (Victoria Only)
ation	900	1800	900	1800	5200	900	900
Mar.	1200	2100	1200	2100	5400	1200	1200
10/0/	1500	2400	1500	2400	6000	1500	1500
ate,	1800	2700	1800	2700		1800	1800
-68	2100	3000	2100	3000		2100	2100
Phas	2400	3300	2400	3300		2400	2400
01,	2700	3600	2700	3600		2700	2700
- 41612		4000	3000	4000		3000	3000
5611				4200			
_				4500			
				5000			
				5200			
				5500			
				6000			

T-Bar

٠.								
	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
	NOLONG	4500	1800	3300	5400	3600	6000	6000
	2100	AVAILABIA	2100	3600	5700	3900	6300	6300
	2400	510J	2400	3900	6000	4200		
	2700	5400				4500		
	3000	5700				4800		
	3300	6000				5200		
		6300				5400		
						5700		
						6000		
						6300		

Rendabar®

100x100x8 Rendabar	150x100x8 Rendabar
900	1800
1200	2100
Nova	2400
2100	AV4" 100
2100	SUBLE
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
	4800
	5100
	5400
	5700
	6000
	6300

- > 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

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	

NEPEAN

NEPEAN Building and Infrastructure

Australia's largest, fully integrated manufacturer and supplier of galvanised metal products for industrial, commercial and residential buildings.

Galintel®

Galvanised steel lintels, retaining wall posts and specialist building products

Weldlok®

Grating, handrail and drainage products

Mastermesh®

Expanded and perforated metal

Galserv®

Hot-dip galvanising

CONTACT DETAILS

Galintel National Orders and Customer Service

P: 1800 LINTEL (1800 546 835)

F: + 61 2 6691 2121

E: galintel@nepean.com

NEPEAN Building & Infrastructure National Sales Branches

New South Wales 137 Rookwood Road

PO Box 57

Yagoona NSW 2199

Victoria

171 Derrimut Drive

Derrimut VIC 3030

Queensland

967 Nudgee Road PO Box 283

Banyo QLD 4014

Western Australia

1/103 Campbell Street Belmont WA 6104

Galintel Manufacturing Facility

45-47 Wingara Drive

PO Box 396

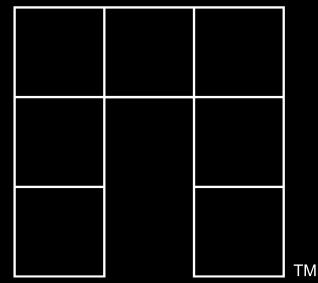
Coffs Harbour NSW 2450

Head Office

137 Rookwood Road

PO Box 57

Yagoona NSW 2199



Information contained in this brochure is supplied in good faith and with the view to assist the user in the correct selection of our products. Customers are responsible for ensuring that products usage is appropriate, fit for purpose, safe and compliant with relevant Australian Standards and Building Codes. While every care is taken to ensure that the information contained in this brochure is correct, no warranty is made nor is any condition expressed or implied. The information contained herein does not constitute an offer nor do we guarantee its accuracy or completeness and assume no responsibility for errors or omissions or for any consequences of reliance on this publication. NEPEAN Building and Infrastructure is committed to continual product improvement and therefore reserves the right to change details and designs without notice.

© NEPEAN

galintel.com.au