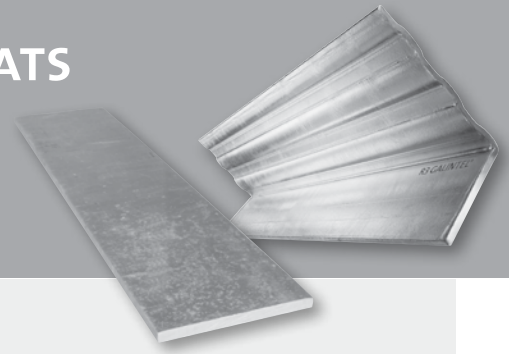


GALINTEL® SOLID BASE ANGLES & FLATS

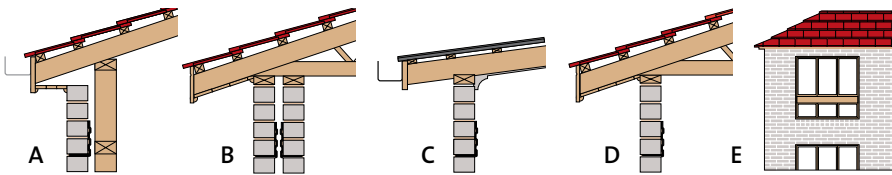


How to use the quick selection guide

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.

Example:

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.

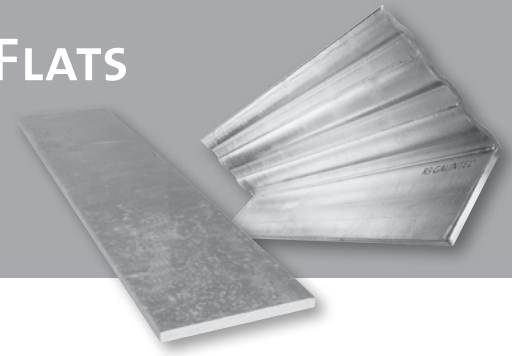
PROFILE SIZE & LOADING CATEGORY		CLEAR SPAN LENGTH											
		600	700	800	900	1200	1500	1800	2100	2400	2700	3000	3600
 FLAT BAR 85 x 7 5 kg/m	Category A												
	Category B												
	Category C												
	Category D												
	Category E												
 ANGLE BAR 100 x 100 9kg/m	Category A												
	Category B												
	Category C												
	Category D												
	Category E												
 ANGLE BAR 150 x 100 12kg/m	Category A												
	Category B												
	Category C												
	Category D												
	Category E												

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





Angles & Flats – safe load tables


Unless otherwise indicated, load values in the tables are limited by stress. For example, for a span of 2100mm, a 150 x 100 x 2400 Galintel® may have a load of 949 kg/m applied safely, with a maximum long term deflection of 1/600 span or 3.5mm (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 85 x 7 5 kg/m 	Span (mm)	600	700	800	900	1000				
	Bar Length (mm)	800	900	1000	1100	1200				
	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				

		SOLID BASE ANGLE							
ANGLE BAR 100 x 100 x 6 9kg/m 	Span (mm)	1000	1200	1500	1800	2100	2400	2700	3000
	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

		SOLID BASE ANGLE						
ANGLE BAR 150 x 100 x 6 12kg/m 	Span (mm)	1500	1800	2100	2400	2700	3000	3600
	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

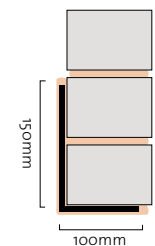
□ Loads not limited by deflection ■ Loads limited by short term deflection of 1/600 span ▨ Loads limited by short term deflection of 1/360 span

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.



Brick composite beam
 Minimum 3 courses of bricks.
 Note: Mortar should be present at all contact surfaces between bricks and lintel

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.