



Western Australia OZLintel Span Tables

Effective from 21 February 2012

High Strength Steel and Now More Durable.

PLATINUM
DuraGal

onesteel
australian tube mills

WA OZLIntel SPAN TABLES

WA OZLintel Span Tables have been developed to meet the unique and specific lintel size range used in the Western Australian building industry. WA OZLintel Span Tables have been certified by local Western Australian consulting engineers "Structerre Consulting Group".

It is recommended that you should take professional advice to support your selection from these tables.



Chartered Consulting Engineers
Site Services • Geotechnics • Residential • Commercial • Civil
Regional Offices • Bunbury • Geraldton

9th February 2012

Letter No: 2012-1052-03
Project No: D53609

Glen Manolas
OneSteel Australian Tube Mills
49 Pilbara Street
WELSHPOOL WA 6106

Dear Sir,

Subject: Engineering Certification of "WA OZLintel™ Span Tables" of February 2012

This is to certify that the "OZLintel™ Span Tables" of February 2012, conforms to the Building Code of Australia, 2012 and the following Australian Standards:

AS/NZS 1170.0: 2002 Structural design actions Part 0: General Principles
AS/NZS 1170.1: 2002 Structural design actions Part 1: Permanent, imposed and other actions
AS/NZS 1170.2: 2011 Structural design actions Part 2: Wind action
AS 1684.1: 1999 Residential timber-framed construction Part 4: Simplified – Non-cyclonic areas
AS 4100: 1998 Steel Structures
AS/NZS 4600: 2005 Cold-formed steel structures.

This is effective from the 9th of February 2012.

Yours faithfully,

Structerre Consulting Group

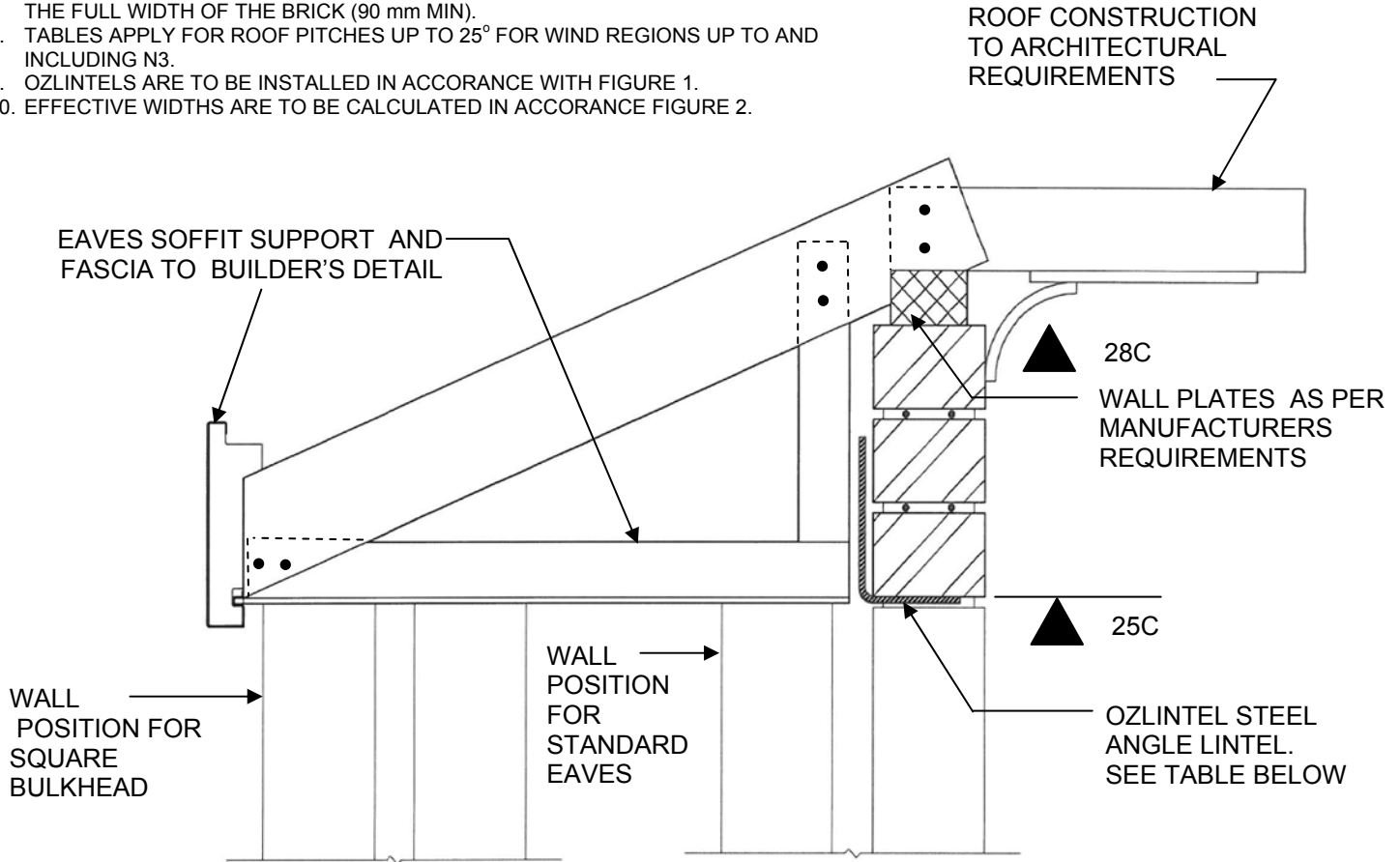
A handwritten signature in blue ink, appearing to read "Gervase Purich".

Gervase Purich
CEO, MIEAust.

NOTES:

1. THIS DETAIL IS TO PROVIDE LINTEL SIZES ONLY.
2. REFER TO BUILDER'S AND/OR TRUSS MANUFACTURER'S SPECIFICATION FOR ROOF & CEILING MEMBER SIZES AND SPACINGS.
3. LINTELS ARE DESIGNED TO SUPPORT 3C OF BRICKWORK & UP TO 2.1 m OF TILE OR METAL ROOF & CEILING.
4. DO NOT SUPPORT ROOF STRUTTING BEAMS OR OTHER POINT LOADS OVER THE LINTEL.
5. A BRICK COURSE, AS REFERRED TO IN THIS DOCUMENT IS STANDARD 86 mm HIGH.
6. IT IS PERMISSIBLE TO ADJUST THE SPAN BY ROUNDING TO THE NEAREST LENGTH, SUBJECT TO IT BEING NO MORE THAN 20 mm.
7. WHERE LINTEL BEARS ON PERPENDICULAR BRICKWORK, BEARING IS TO BE ACROSS THE FULL WIDTH OF THE BRICK (90 mm MIN).
8. TABLES APPLY FOR ROOF PITCHES UP TO 25° FOR WIND REGIONS UP TO AND INCLUDING N3.
9. OZLINTELS ARE TO BE INSTALLED IN ACCORANCE WITH FIGURE 1.
10. EFFECTIVE WIDTHS ARE TO BE CALCULATED IN ACCORANCE FIGURE 2.

TILED OR METAL



SQUARE BULKHEAD / EAVES LINTEL DETAIL

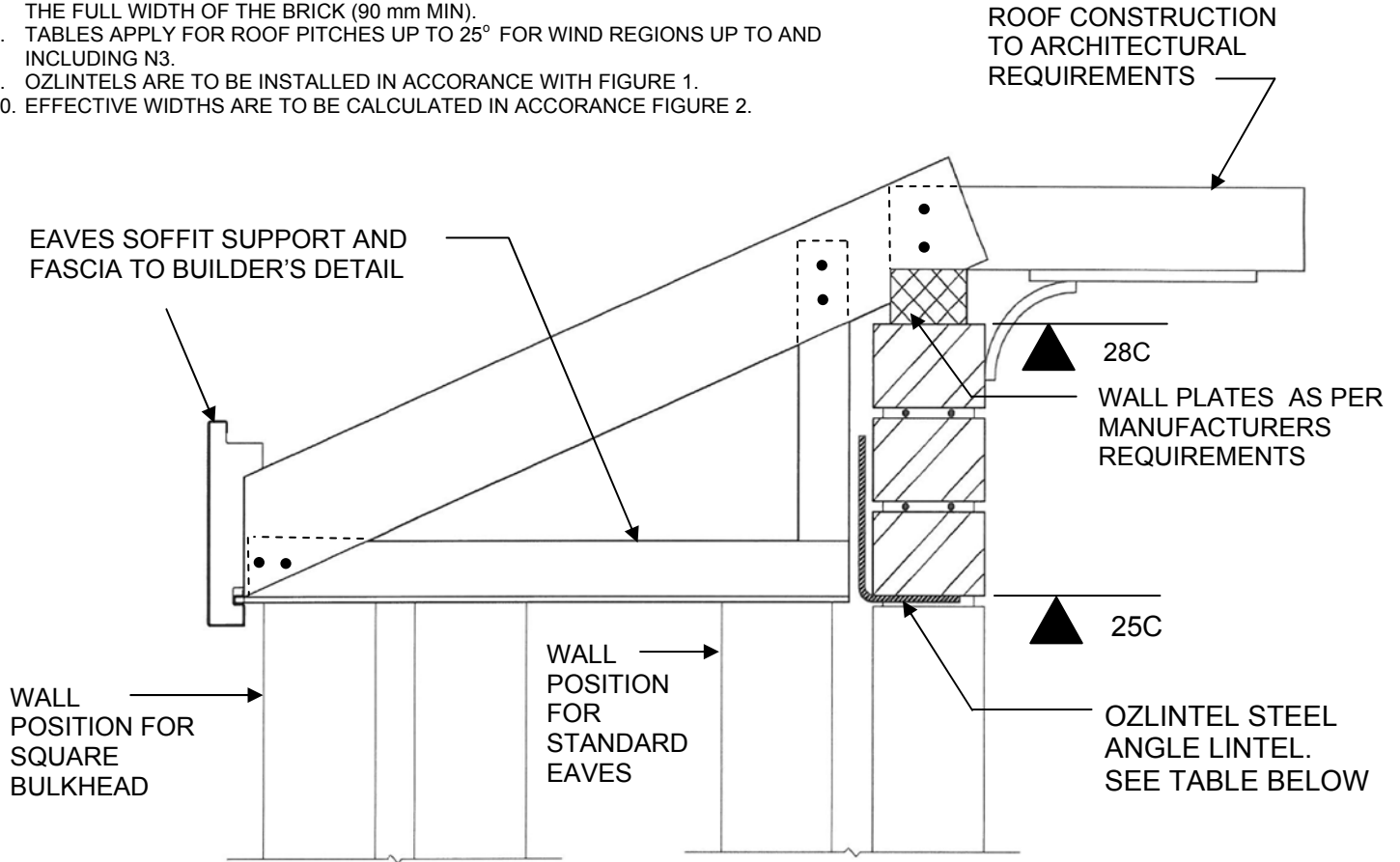
OPENING	TILED ROOF		METAL ROOF	
	(2100 EFFECTIVE WIDTH)		(2100 EFFECTIVE WIDTH)	
	LINTEL	BEARING	LINTEL	BEARING
mm	mm	mm	mm	mm
UP TO 1500	75x75x6	150	75x75x6	150
1500 up to 1800	100x75x6	150	75x75x6	150
1800 up to 2200	100x76x6	150	100x75x6	150
2200 up to 2400	125x75x6	150	100x75x6	150
2400 up to 2700	125x75x6	150	100x75x6	150
2700 up to 3000	150x100x6	150	125x75x6	150
3000 up to 3300	150x90x8	150	125x75x6	150
3300 up to 3600	150x90x8	150	150x100x6	150
3600 up to 4000			150x90x8	150
4000 up to 4400			150x90x8	150

Attention: The 90x90x5 OZLintel meets or exceeds spans provided by 75x75x6 & 75x75x8 in the above table and is a straight substitution. The 90x90x5 OZLintel provides a 6% weight saving over the 75x75x6 and a 27% weight saving over the 75x75x8 HRS angle / HDG.

NOTES:

1. THIS DETAIL IS TO PROVIDE LINTEL SIZES ONLY.
2. REFER TO BUILDER'S AND/OR TRUSS MANUFACTURER'S SPECIFICATION FOR ROOF & CEILING MEMBER SIZES AND SPACINGS.
3. LINTELS ARE DESIGNED TO SUPPORT 3C OF BRICKWORK & UP TO 3.6 m OR 6.6 m OF TILE OR METAL ROOF & CEILING.
4. DO NOT SUPPORT ROOF STRUTTING BEAMS OR OTHER POINT LOADS OVER THE LINTEL.
5. A BRICK COURSE, AS REFERRED TO IN THIS DOCUMENT IS STANDARD 86 mm HIGH.
6. IT IS PERMISSIBLE TO ADJUST THE SPAN BY ROUNDING TO THE NEAREST LENGTH, SUBJECT TO IT BEING NO MORE THAN 20 mm.
7. WHERE LINTEL BEARS ON PERPENDICULAR BRICKWORK, BEARING IS TO BE ACROSS THE FULL WIDTH OF THE BRICK (90 mm MIN).
8. TABLES APPLY FOR ROOF PITCHES UP TO 25° FOR WIND REGIONS UP TO AND INCLUDING N3.
9. OZLINTELS ARE TO BE INSTALLED IN ACCORDANCE WITH FIGURE 1.
10. EFFECTIVE WIDTHS ARE TO BE CALCULATED IN ACCORDANCE FIGURE 2.

TILED OR METAL



SQUARE BULKHEAD / EAVES LINTEL DETAIL

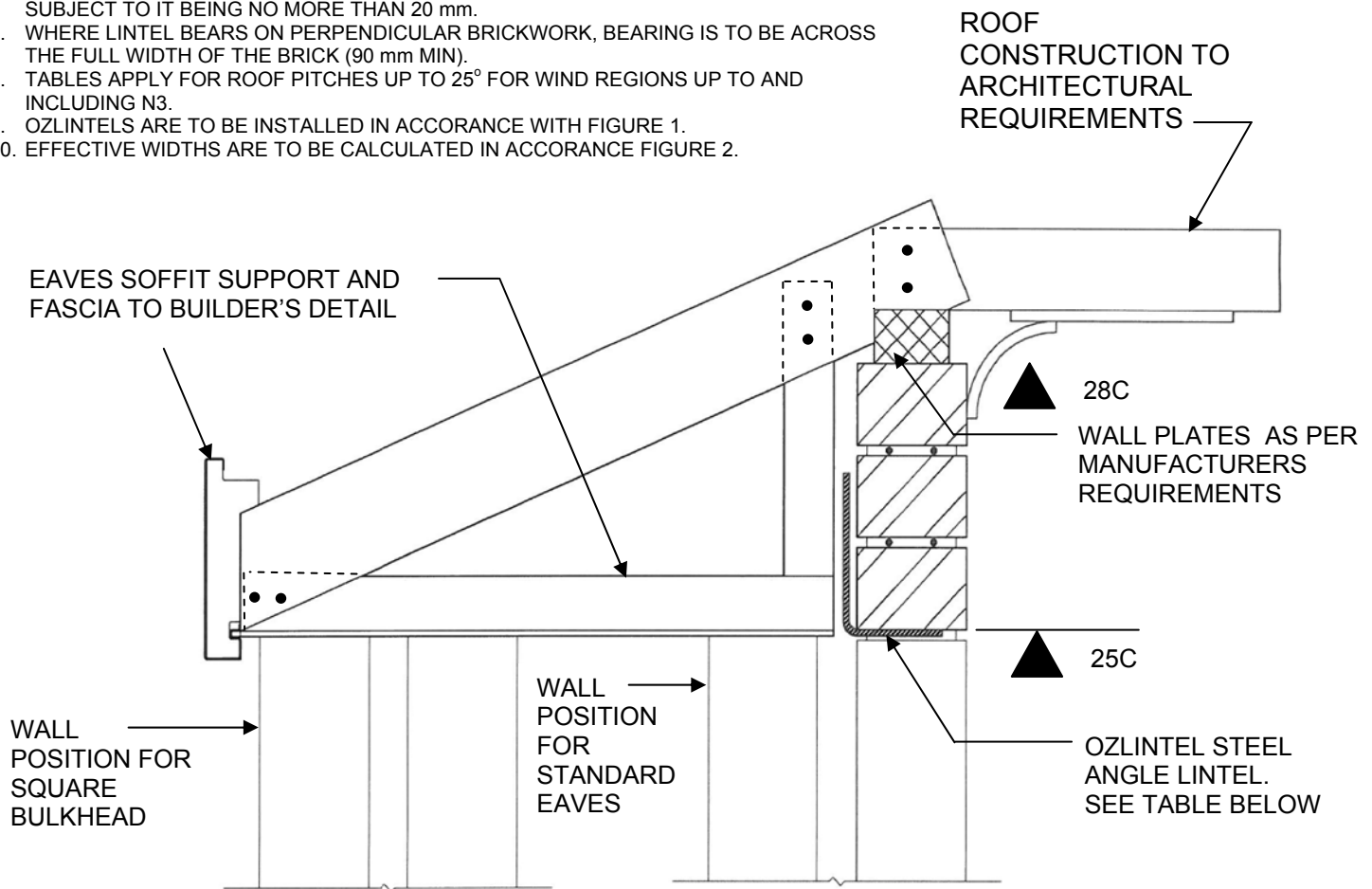
OPENING	TILED ROOF				METAL ROOF			
	EFFECTIVE WIDTH				EFFECTIVE WIDTH			
	3600 mm		6600 mm		3600 mm		6600 mm	
	LINTEL	BEARING	LINTEL	BEARING	LINTEL	BEARING	LINTEL	BEARING
UP TO 1500	75x75x6	150	100x75x6	150	75x75x6	150	75x75x6	150
1500 UP TO 1800	100x76x6	150	125x75x6	150	75x75x6	150	100x75x6	150
1800 UP TO 2200	125x75x6	150	150x90x8	150	100x75x6	150	125x75x6	150
2200 UP TO 2400	125x75x6	150	150x90x8	150	125x75x6	150	125x75x6	150
2400 UP TO 2700	150x100x6	150			125x75x6	150	125x75x8	150
2700 UP TO 3000	150x90x8	150			150x100x6	150	150x90x8	150
3000 UP TO 3300					150x90x8	150		
3300 UP TO 3600					150x90x8	150		

Attention: The 90x90x5 OZLintel meets or exceeds spans provided by 75x75x6 & 75x75x8 in the above table and is a straight substitution. The 90x90x5 OZLintel provides a 6% weight saving over the 75x75x6 and a 27% weight saving over the 75x75x8 HRS angle / HDG.

NOTES:

1. THIS DETAIL IS TO PROVIDE LINTEL SIZES ONLY.
2. REFER TO BUILDER'S AND/OR TRUSS MANUFACTURER'S SPECIFICATION FOR ROOF & CEILING MEMBER SIZES AND SPACINGS.
3. LINTELS ARE DESIGNED TO SUPPORT 3C OF BRICKWORK & UP TO 3.6 m OR 6.6 m OF TILE OR METAL ROOF & CEILING.
4. DO NOT SUPPORT ROOF STRUTTING BEAMS OR OTHER POINT LOADS OVER THE LINTEL.
5. A BRICK COURSE, AS REFERRED TO IN THIS DOCUMENT IS STANDARD 86 mm HIGH.
6. IT IS PERMISSIBLE TO ADJUST THE SPAN BY ROUNDING TO THE NEAREST LENGTH, SUBJECT TO IT BEING NO MORE THAN 20 mm.
7. WHERE LINTEL BEARS ON PERPENDICULAR BRICKWORK, BEARING IS TO BE ACROSS THE FULL WIDTH OF THE BRICK (90 mm MIN).
8. TABLES APPLY FOR ROOF PITCHES UP TO 25° FOR WIND REGIONS UP TO AND INCLUDING N3.
9. OZLINTELS ARE TO BE INSTALLED IN ACCORDANCE WITH FIGURE 1.
10. EFFECTIVE WIDTHS ARE TO BE CALCULATED IN ACCORDANCE FIGURE 2.

TILED
OR
METAL



SQUARE BULKHEAD / EAVES LINTEL DETAIL

LINTEL SIZE	TILED ROOF				METAL ROOF			
	EFFECTIVE WIDTH				EFFECTIVE WIDTH			
	3600 mm		6600 mm		3600 mm		6600 mm	
	MAXIMUM OPENING	BEARING	MAXIMUM OPENING	BEARING	MAXIMUM OPENING	BEARING	MAXIMUM OPENING	BEARING
75x 75x6	UP TO 1500	150	UP TO 1220	150	UP TO 1800	150	UP TO 1500	150
100x75x6	UP TO 1910	150	UP TO 1600	150	UP TO 2270	150	UP TO 1920	150
75x 75x8	UP TO 1800	150	UP TO 1500	150	UP TO 2000	150	UP TO 1600	150
100x100x6	UP TO 2200	150	UP TO 1900	150	UP TO 2600	150	UP TO 2200	150
125x 75x6	UP TO 2400	150	UP TO 2000	150	UP TO 2780	150	UP TO 2400	150
100x 75x8	UP TO 2100	150	UP TO 1800	150	UP TO 2460	150	UP TO 2100	150
90x 90x8	UP TO 1920	150	UP TO 1610	150	UP TO 2280	150	UP TO 1930	150
150x100x6	UP TO 2760	150	UP TO 2130	150	UP TO 3320	150	UP TO 2540	150
100x100x8	UP TO 2400	150	UP TO 2000	150	UP TO 2700	150	UP TO 2200	150
125x 75x8	UP TO 2600	150	UP TO 2130	150	UP TO 3020	150	UP TO 2700	150
150x 90x8	UP TO 3070	150	UP TO 2570	150	UP TO 3640	150	UP TO 3090	150
150x100x8	UP TO 3110	150	UP TO 2600	150	UP TO 3680	150	UP TO 3130	150

Attention: The 90x90x5 OZLintel meets or exceeds spans provided by 75x75x6 & 75x75x8 in the above table and is a straight substitution. The 90x90x5 OZLintel provides a 6% weight saving over the 75x75x6 and a 27% weight saving over the 75x75x8 HRS angle / HDG.

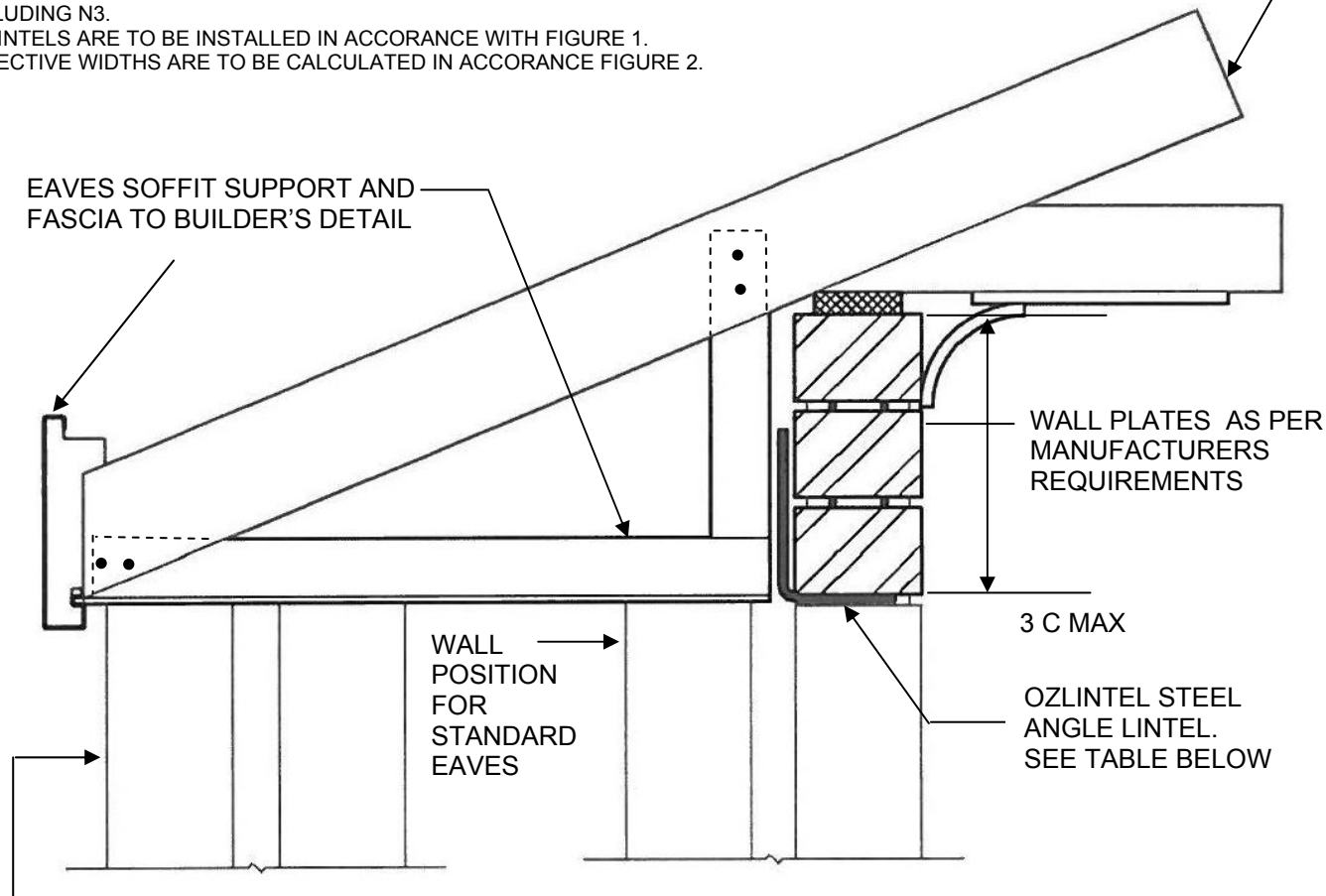
NOTES:

1. THIS DETAIL IS TO PROVIDE LINTEL SIZES ONLY.
2. REFER TO BUILDER'S AND/OR TRUSS MANUFACTURER'S SPECIFICATION FOR ROOF & CEILING MEMBER SIZES AND SPACINGS.
3. LINTELS ARE DESIGNED TO SUPPORT 3C OF BRICKWORK & UP TO 3.6 m OR 6.6 m OF TILE OR METAL ROOF & CEILING.
4. DO NOT SUPPORT ROOF STRUTTING BEAMS OR OTHER POINT LOADS OVER THE LINTEL.
5. A BRICK COURSE, AS REFERRED TO IN THIS DOCUMENT IS STANDARD 86 mm HIGH.
6. IT IS PERMISSIBLE TO ADJUST THE SPAN BY ROUNDING TO THE NEAREST LENGTH, SUBJECT TO IT BEING NO MORE THAN 20 mm.
7. WHERE LINTEL BEARS ON PERPENDICULAR BRICKWORK, BEARING IS TO BE ACROSS THE FULL WIDTH OF THE BRICK (90 mm MIN).
8. TABLES APPLY FOR ROOF PITCHES UP TO 25° FOR WIND REGIONS UP TO AND INCLUDING N3.
9. OZLINTELS ARE TO BE INSTALLED IN ACCORDANCE WITH FIGURE 1.
10. EFFECTIVE WIDTHS ARE TO BE CALCULATED IN ACCORDANCE FIGURE 2.

TILED OR METAL

ROOF TRUSS
CONSTRUCTION TO
MANUFACTURER'S
SPECIFICATIONS

EAVES SOFFIT SUPPORT AND
FASCIA TO BUILDER'S DETAIL



WALL POSITION FOR
SQUARE BULKHEAD

SQUARE BULKHEAD / EAVES LINTEL DETAIL

OPENING	TILED ROOF				METAL ROOF			
	EFFECTIVE WIDTH				EFFECTIVE WIDTH			
	3600 mm		6600 mm		3600 mm		6600 mm	
	LINTEL	BEARING	LINTEL	BEARING	LINTEL	BEARING	LINTEL	BEARING
UP TO 1500	75x75x6	150	100x75x6	150	75x75x6	150	75x75x6	150
1500 UP TO 1800	100x75x6	150	125x75x6	150	75x75x6	150	100x75x6	150
1800 UP TO 2200	125x75x6	150	150x90x8	150	100x75x6	150	125x75x6	150
2200 UP TO 2400	125x75x6	150	150x90x8	150	125x75x6	150	125x75x6	150
2400 UP TO 2700	150x100x6	150			125x75x6	150	125x75x8	150
2700 UP TO 3000	150x90x8	150			150x100x6	150	150x90x8	150
3000 UP TO 3300					150x90x8	150		
3300 UP TO 3600					150x90x8	150		

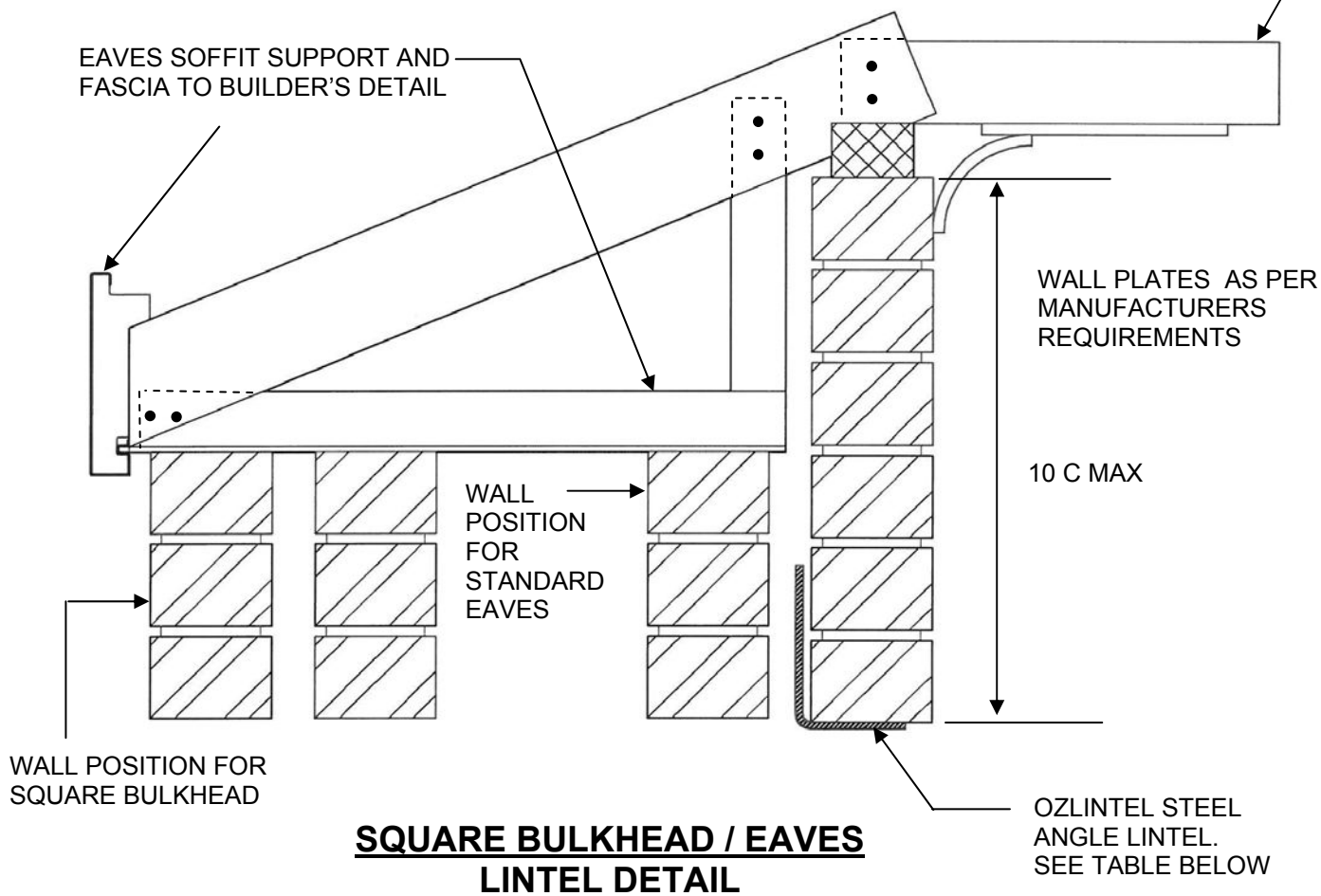
Attention: The 90x90x5 OZLintel meets or exceeds spans provided by 75x75x6 & 75x75x8 in the above table and is a straight substitution. The 90x90x5 OZLintel provides a 6% weight saving over the 75x75x6 and a 27% weight saving over the 75x75x8 HRS angle / HDG.

NOTES:

1. THIS DETAIL IS TO PROVIDE LINTEL SIZES ONLY.
2. REFER TO BUILDER'S AND/OR TRUSS MANUFACTURER'S SPECIFICATION FOR ROOF & CEILING MEMBER SIZES AND SPACINGS.
3. LINTELS ARE DESIGNED TO SUPPORT 10C OF BRICKWORK & UP TO 3.6 m OR 6.6 m OF TILE OR METAL ROOF & CEILING.
4. DO NOT SUPPORT ROOF STRUTTING BEAMS OR OTHER POINT LOADS OVER THE LINTEL.
5. A BRICK COURSE, AS REFERRED TO IN THIS DOCUMENT IS STANDARD 86 mm HIGH.
6. IT IS PERMISSIBLE TO ADJUST THE SPAN BY ROUNDING TO THE NEAREST LENGTH, SUBJECT TO IT BEING NO MORE THAN 20 mm.
7. WHERE LINTEL BEARS ON PERPENDICULAR BRICKWORK, BEARING IS TO BE ACROSS THE FULL WIDTH OF THE BRICK (90 mm MIN).
8. TABLES APPLY FOR ROOF PITCHES UP TO 25° FOR WIND REGIONS UP TO AND INCLUDING N3.
9. OZLINTELS ARE TO BE INSTALLED IN ACCORDANCE WITH FIGURE 1.
10. EFFECTIVE WIDTHS ARE TO BE CALCULATED IN ACCORDANCE FIGURE 2.

**TILED
OR
METAL**

ROOF CONSTRUCTION
TO ARCHITECTURAL
REQUIREMENTS



SQUARE BULKHEAD / EAVES LINTEL DETAIL

OPENING	TILED ROOF				METAL ROOF			
	EFFECTIVE WIDTH				EFFECTIVE WIDTH			
	3600 mm		6600 mm		3600 mm		6600 mm	
	LINTEL	BEARING	LINTEL	BEARING	LINTEL	BEARING	LINTEL	BEARING
UP TO 1500	100x75x6	150	100x75x6	150	75x75x6	150	100x75x6	150
1500 UP TO 1800	100x75x6	150	125x75x6	150	100x75x6	150	100x75x6	150
1800 UP TO 2200	125x75x6	150	150x90x8	150	125x75x6	150	125x75x6	150
2200 UP TO 2400	150x100x6	150	150x90x8	150	125x76x6	150	125x75x6	150
2400 UP TO 2700	150x90x8	150			150x100x6	150	150x90x8	150
2700 UP TO 3000	150x90x8	150			150x90x8	150	150x90x8	150
3000 UP TO 3300					150x90x8	150		

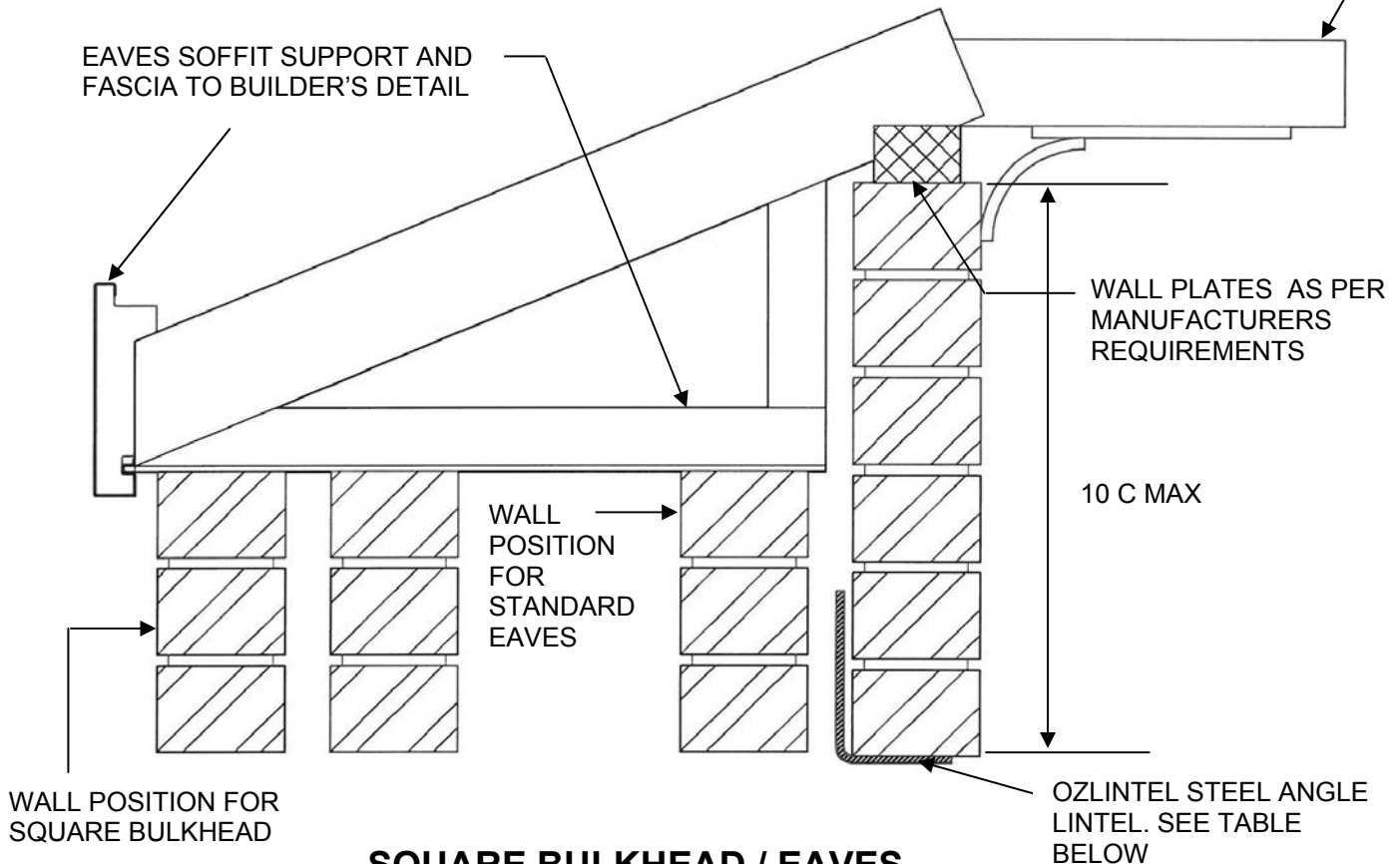
Attention: The 90x90x5 OZLintel meets or exceeds spans provided by 75x75x6 & 75x75x8 in the above table and is a straight substitution. The 90x90x5 OZLintel provides a 6% weight saving over the 75x75x6 and a 27% weight saving over the 75x75x8 HRS angle / HDG.

NOTES:

1. THIS DETAIL IS TO PROVIDE LINTEL SIZES ONLY.
2. REFER TO BUILDER'S AND/OR TRUSS MANUFACTURER'S SPECIFICATION FOR ROOF & CEILING MEMBER SIZES AND SPACINGS.
3. LINTELS ARE DESIGNED TO SUPPORT 10C OF BRICKWORK & UP TO 3.6 m OR 6.6 m OF TILE OR METAL ROOF & CEILING.
4. DO NOT SUPPORT ROOF STRUTTING BEAMS OR OTHER POINT LOADS OVER THE LINTEL.
5. A BRICK COURSE, AS REFERRED TO IN THIS DOCUMENT IS STANDARD 86 mm HIGH.
6. IT IS PERMISSIBLE TO ADJUST THE SPAN BY ROUNDING TO THE NEAREST LENGTH, SUBJECT TO IT BEING NO MORE THAN 20 mm.
7. WHERE LINTEL BEARS ON PERPENDICULAR BRICKWORK, BEARING IS TO BE ACROSS THE FULL WIDTH OF THE BRICK (90 mm MIN).
8. TABLES APPLY FOR ROOF PITCHES UP TO 25° FOR WIND REGIONS UP TO AND INCLUDING N3.
9. OZLINTELS ARE TO BE INSTALLED IN ACCORDANCE WITH FIGURE 1.
10. EFFECTIVE WIDTHS ARE TO BE CALCULATED IN ACCORDANCE FIGURE 2.

**TILED
OR
METAL**

ROOF CONSTRUCTION
TO ARCHITECTURAL
REQUIREMENTS



SQUARE BULKHEAD / EAVES LINTEL DETAIL

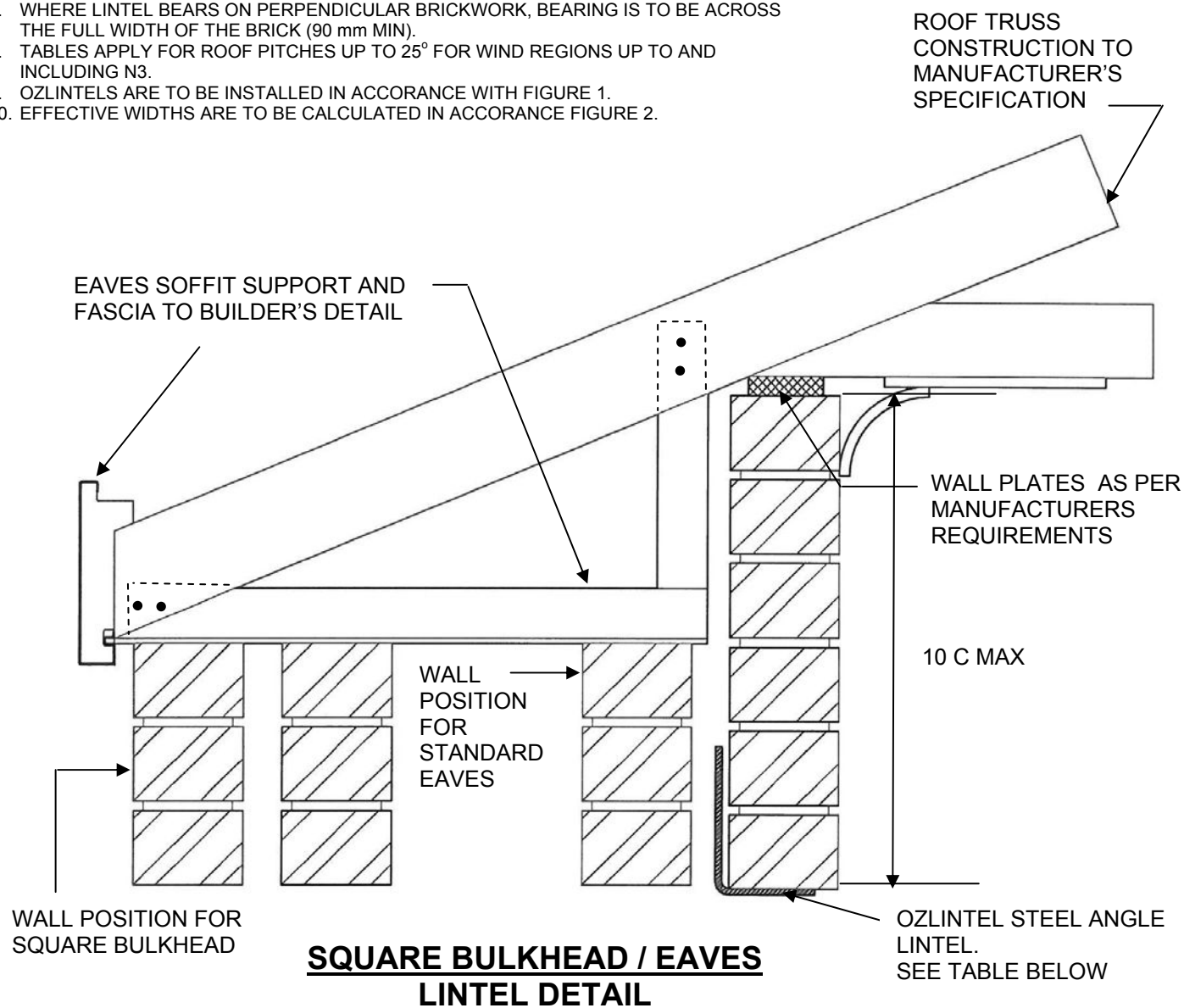
LINTEL SIZE	TILED ROOF				METAL ROOF			
	EFFECTIVE WIDTH				EFFECTIVE WIDTH			
	3600 mm		6600 mm		3600 mm		6600 mm	
	MAXIMUM OPENING	BEARING	MAXIMUM OPENING	BEARING	MAXIMUM OPENING	BEARING	MAXIMUM OPENING	BEARING
75x 75x6	UP TO 1400	150	UP TO 1200	150	UP TO 1600	150	UP TO 1400	150
100x75x6	UP TO 1800	150	UP TO 1600	150	UP TO 2100	150	UP TO 1900	150
75x 75x8	UP TO 1500	150	UP TO 1300	150	UP TO 1800	150	UP TO 1600	150
100x100x6	UP TO 1900	150	UP TO 1600	150	UP TO 2200	150	UP TO 2000	150
125x 75x6	UP TO 2200	150	UP TO 1900	150	UP TO 2600	150	UP TO 2400	150
100x 75x8	UP TO 2000	150	UP TO 1700	150	UP TO 2300	150	UP TO 2100	150
90x 90x8	UP TO 1770	150	UP TO 1530	150	UP TO 2010	150	UP TO 1780	150
150x100x6	UP TO 2510	150	UP TO 2010	150	UP TO 2890	150	UP TO 2360	150
100x100x8	UP TO 2000	150	UP TO 1800	150	UP TO 2400	150	UP TO 2100	150
125x 75x8	UP TO 2400	150	UP TO 2100	150	UP TO 2900	150	UP TO 2600	150
150x 90x8	UP TO 3000	150	UP TO 2500	150	UP TO 3300	150	UP TO 3100	150
150x100x8	UP TO 2870	150	UP TO 2480	150	UP TO 3250	150	UP TO 2880	150

Attention: The 90x90x5 OZLintel meets or exceeds spans provided by 75x75x6 & 75x75x8 in the above table and is a straight substitution. The 90x90x5 OZLintel provides a 6% weight saving over the 75x75x6 and a 27% weight saving over the 75x75x8 HRS angle / HDG.

NOTES:

1. THIS DETAIL IS TO PROVIDE LINTEL SIZES ONLY.
2. REFER TO BUILDER'S AND/OR TRUSS MANUFACTURER'S SPECIFICATION FOR ROOF & CEILING MEMBER SIZES AND SPACINGS.
3. LINTELS ARE DESIGNED TO SUPPORT 10C OF BRICKWORK & UP TO 3.6 m OR 6.6 m OF TILE OR METAL ROOF & CEILING.
4. DO NOT SUPPORT ROOF STRUTTING BEAMS OR OTHER POINT LOADS OVER THE LINTEL.
5. A BRICK COURSE, AS REFERRED TO IN THIS DOCUMENT IS STANDARD 86 mm HIGH.
6. IT IS PERMISSIBLE TO ADJUST THE SPAN BY ROUNDING TO THE NEAREST LENGTH, SUBJECT TO IT BEING NO MORE THAN 20 mm.
7. WHERE LINTEL BEARS ON PERPENDICULAR BRICKWORK, BEARING IS TO BE ACROSS THE FULL WIDTH OF THE BRICK (90 mm MIN).
8. TABLES APPLY FOR ROOF PITCHES UP TO 25° FOR WIND REGIONS UP TO AND INCLUDING N3.
9. OZLINTELS ARE TO BE INSTALLED IN ACCORDANCE WITH FIGURE 1.
10. EFFECTIVE WIDTHS ARE TO BE CALCULATED IN ACCORDANCE FIGURE 2.

TILED OR METAL



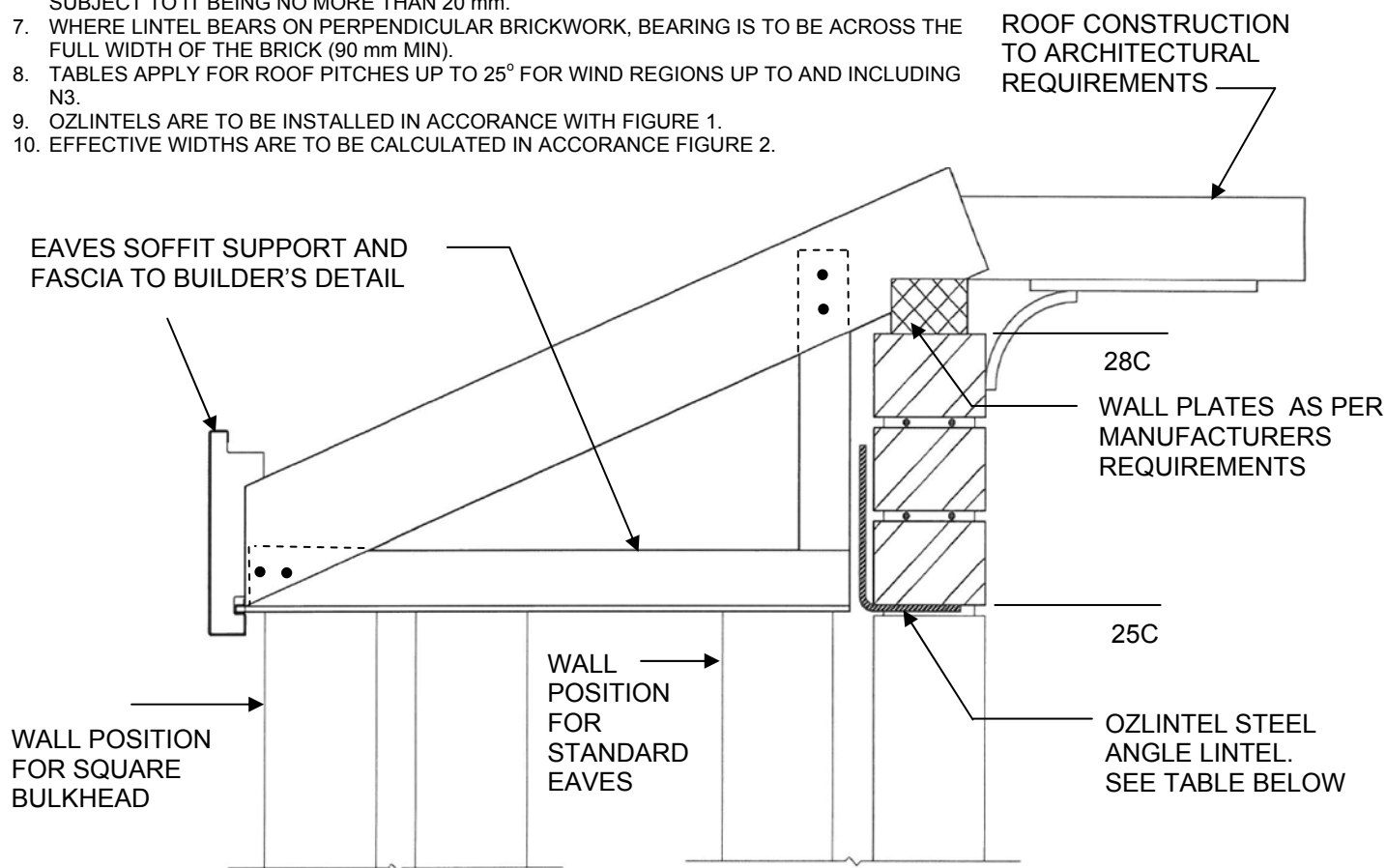
OPENING	TILED ROOF				METAL ROOF			
	EFFECTIVE WIDTH				EFFECTIVE WIDTH			
	3600 mm		6600 mm		3600 mm		6600 mm	
	LINTEL	BEARING	LINTEL	BEARING	LINTEL	BEARING	LINTEL	BEARING
UP TO 1500	100x75x6	150	100x75x6	150	75x75x6	150	100x75x6	150
1500 UP TO 1800	100x100x6	150	125x75x6	150	100x75x6	150	100x75x6	150
1800 UP TO 2200	125x75x6	150	150x90x8	150	125x75x6	150	125x75x6	150
2200 UP TO 2400	150x100x6	150	150x90x8	150	125x76x6	150	125x75x6	150
2400 UP TO 2700	150x90x8	150			150x100x6	150	150x90x8	150
2700 UP TO 3000	150x90x8	150			150x90x8	150	150x90x8	150
3000 UP TO 3300					150x90x8			

Attention: The 90x90x5 OZLintel meets or exceeds spans provided by 75x75x6 & 75x75x8 in the above table and is a straight substitution. The 90x90x5 OZLintel provides a 6% weight saving over the 75x75x6 and a 27% weight saving over the 75x75x8 HRS angle / HDG.

NOTES:

1. THIS DETAIL IS TO PROVIDE LINTEL SIZES ONLY.
2. REFER TO BUILDER'S AND/OR TRUSS MANUFACTURER'S SPECIFICATION FOR ROOF & CEILING MEMBER SIZES AND SPACINGS.
3. LINTELS ARE DESIGNED TO SUPPORT 3C OF BRICKWORK & UP TO 2.1m OR 3.6 m OR 6.6 m OF TILE ROOF & CEILING.
4. DO NOT SUPPORT ROOF STRUTTING BEAMS OR OTHER POINT LOADS OVER THE LINTEL.
5. A BRICK COURSE, AS REFERRED TO IN THIS DOCUMENT IS STANDARD 86 mm HIGH.
6. IT IS PERMISSIBLE TO ADJUST THE SPAN BY ROUNDING TO THE NEAREST LENGTH, SUBJECT TO IT BEING NO MORE THAN 20 mm.
7. WHERE LINTEL BEARS ON PERPENDICULAR BRICKWORK, BEARING IS TO BE ACROSS THE FULL WIDTH OF THE BRICK (90 mm MIN).
8. TABLES APPLY FOR ROOF PITCHES UP TO 25° FOR WIND REGIONS UP TO AND INCLUDING N3.
9. OZLINTELS ARE TO BE INSTALLED IN ACCORANCE WITH FIGURE 1.
10. EFFECTIVE WIDTHS ARE TO BE CALCULATED IN ACCORANCE FIGURE 2.

TILED ROOF 3 Courses



SQUARE BULKHEAD / EAVES LINTEL DETAIL

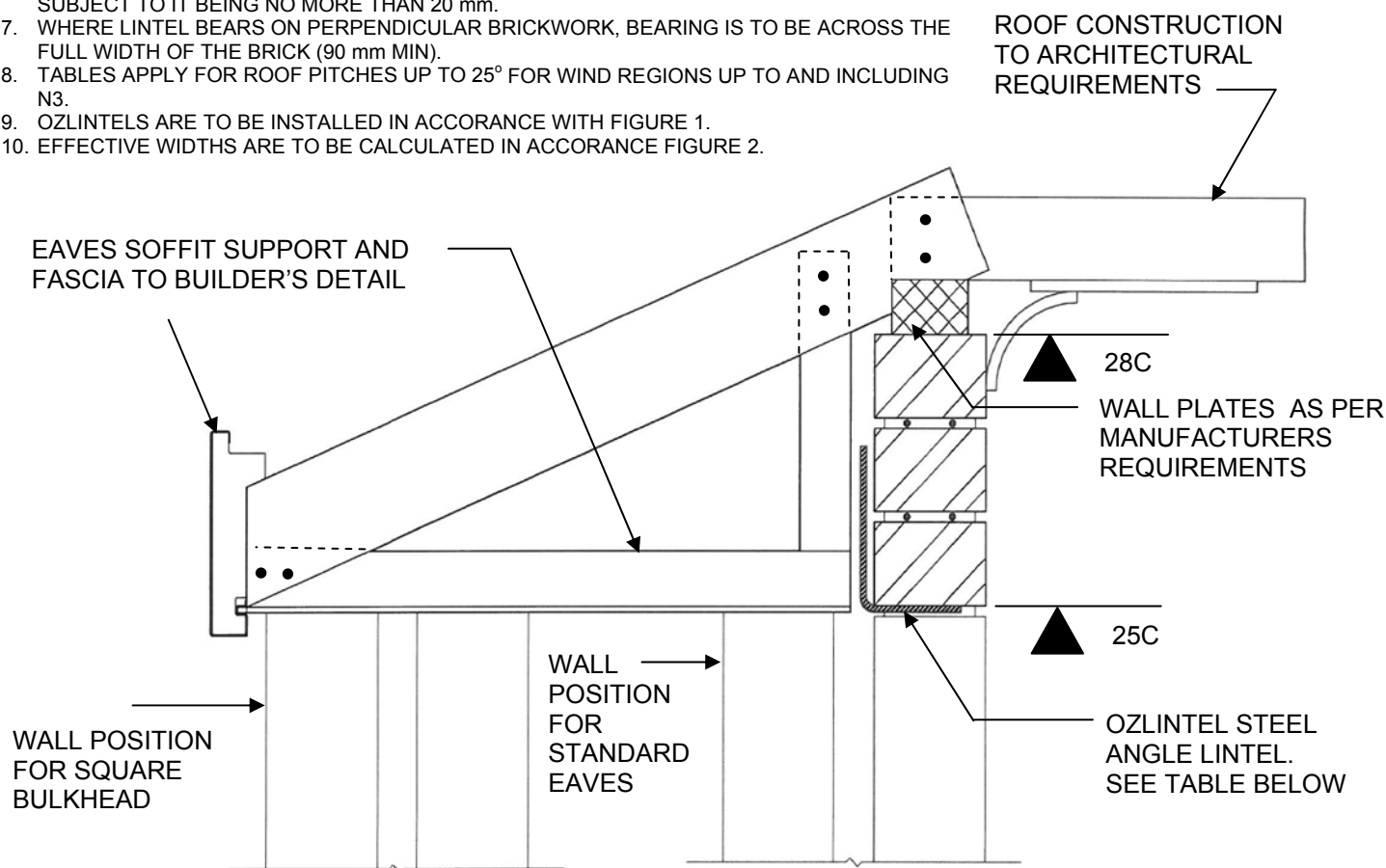
Section	Mass kg/m	Tile Roof					
		No. of Brick Courses Supported by Lintel = 3					
		Effective Width					
		2100		3600		6600	
		Maximum Opening mm	Minimum End Bearing Length mm	Maximum Opening mm	Minimum End Bearing Length mm	Maximum Opening mm	Minimum End Bearing Length mm
75x 75x6	6.56	1700	150	1500	150	1220	150
100x 75x6	7.74	2220	150	1910	150	1600	150
75x 75x8	8.59	1840	150	1800	150	1500	150
100x100x6	8.92	2290	150	2200	150	1900	150
125x 75x6	8.92	2710	150	2400	150	2000	150
100x 75x8	10.2	2410	150	2100	150	1800	150
90x 90x8	10.5	2230	150	1920	150	1610	150
150x100x6	11.3	3250	150	2760	150	2130	150
100x100x8	11.7	2480	150	2400	150	2000	150
125x 75x8	11.7	3000	150	2600	150	2130	150
150x 90x8	14.2	3600	150	3070	150	2570	150
150x100x8	14.9	3600	150	3110	150	2600	150

Attention: The 90x90x5 OZLintel meets or exceeds spans provided by 75x75x6 & 75x75x8 in the above table and is a straight substitution. The 90x90x5 OZLintel provides a 6% weight saving over the 75x75x6 and a 27% weight saving over the 75x75x8 HRS angle / HDG.

NOTES:

1. THIS DETAIL IS TO PROVIDE LINTEL SIZES ONLY.
2. REFER TO BUILDER'S AND/OR TRUSS MANUFACTURER'S SPECIFICATION FOR ROOF & CEILING MEMBER SIZES AND SPACINGS.
3. LINTELS ARE DESIGNED TO SUPPORT 3C OF BRICKWORK & UP TO 2.1 m OR 3.6 m OR 6.6 m OF METAL ROOF & CEILING.
4. DO NOT SUPPORT ROOF STRUTTING BEAMS OR OTHER POINT LOADS OVER THE LINTEL.
5. A BRICK COURSE, AS REFERRED TO IN THIS DOCUMENT IS STANDARD 86 mm HIGH.
6. IT IS PERMISSIBLE TO ADJUST THE SPAN BY ROUNDING TO THE NEAREST LENGTH, SUBJECT TO IT BEING NO MORE THAN 20 mm.
7. WHERE LINTEL BEARS ON PERPENDICULAR BRICKWORK, BEARING IS TO BE ACROSS THE FULL WIDTH OF THE BRICK (90 mm MIN).
8. TABLES APPLY FOR ROOF PITCHES UP TO 25° FOR WIND REGIONS UP TO AND INCLUDING N3.
9. OZLINTELS ARE TO BE INSTALLED IN ACCORANCE WITH FIGURE 1.
10. EFFECTIVE WIDTHS ARE TO BE CALCULATED IN ACCORANCE FIGURE 2.

METAL ROOF 3 Courses



SQUARE BULKHEAD / EAVES LINTEL DETAIL

Section	Mass kg/m	Metal Roof					
		No. of Brick Courses Supported by Lintel = 3					
		Effective Width					
		2100		3600		6600	
		Maximum Opening mm	Minimum End Bearing Length mm	Maximum Opening mm	Minimum End Bearing Length mm	Maximum Opening mm	Minimum End Bearing Length mm
75x 75x6	6.56	1980	150	1800	150	1500	150
100x 75x6	7.74	2700	150	2270	150	1920	150
75x 75x8	8.59	2200	150	2000	150	1600	150
100x100x6	8.92	2700	150	2600	150	2200	150
125x 75x6	8.92	3300	150	2780	150	2400	150
100x 75x8	10.2	3000	150	2460	150	2100	150
90x 90x8	10.5	2590	150	2280	150	1930	150
150x100x6	11.3	3840	150	3320	150	2540	150
100x100x8	11.7	3000	150	2700	150	2200	150
125x 75x8	11.7	3600	150	3020	150	2700	150
150x 90x8	14.2	4400	150	3640	150	3090	150
150x100x8	14.9	4400	150	3680	150	3130	150

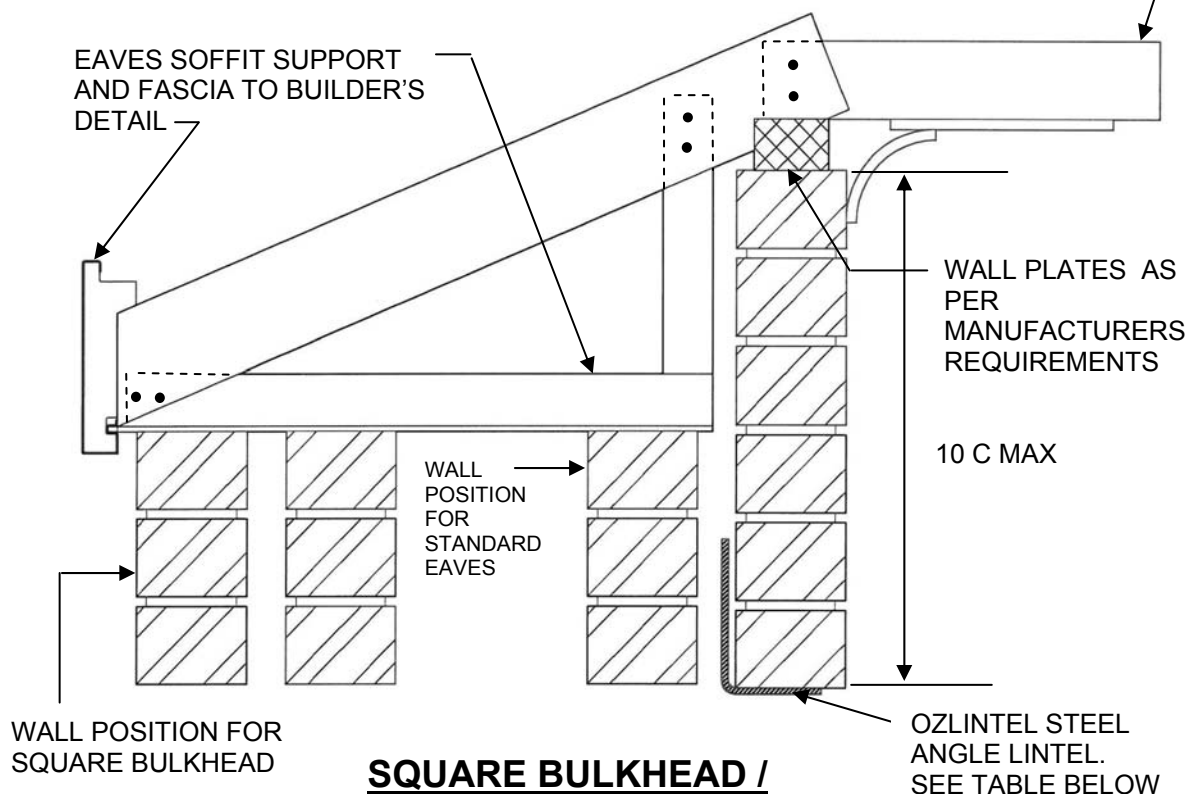
Attention: The 90x90x5 OZLintel meets or exceeds spans provided by 75x75x6 & 75x75x8 in the above table and is a straight substitution. The 90x90x5 OZLintel provides a 6% weight saving over the 75x75x6 and a 27% weight saving over the 75x75x8 HRS angle / HDG.

NOTES:

1. THIS DETAIL IS TO PROVIDE LINTEL SIZES ONLY.
2. REFER TO BUILDER'S AND/OR TRUSS MANUFACTURER'S SPECIFICATION FOR ROOF & CEILING MEMBER SIZES AND SPACINGS.
3. LINTELS ARE DESIGNED TO SUPPORT 10C OF BRICKWORK & UP TO 3.6 m OR 6.6 m OF TILE ROOF & CEILING.
4. DO NOT SUPPORT ROOF STRUTTING BEAMS OR OTHER POINT LOADS OVER THE LINTEL.
5. A BRICK COURSE, AS REFERRED TO IN THIS DOCUMENT IS STANDARD 86 mm HIGH.
6. IT IS PERMISSIBLE TO ADJUST THE SPAN BY ROUNDING TO THE NEAREST LENGTH, SUBJECT TO IT BEING NO MORE THAN 20 mm.
7. WHERE LINTEL BEARS ON PERPENDICULAR BRICKWORK, BEARING IS TO BE ACROSS THE FULL WIDTH OF THE BRICK (90 mm MIN).
8. TABLES APPLY FOR ROOF PITCHES UP TO 25° FOR WIND REGIONS UP TO AND INCLUDING N3.
9. OZLINTELS ARE TO BE INSTALLED IN ACCORANCE WITH FIGURE 1.
10. EFFECTIVE WIDTHS ARE TO BE CALCULATED IN ACCORANCE FIGURE 2.

TILED ROOF 10 Courses

ROOF
CONSTRUCTION TO
ARCHITECTURAL
REQUIREMENTS



SQUARE BULKHEAD / EAVES LINTEL DETAIL

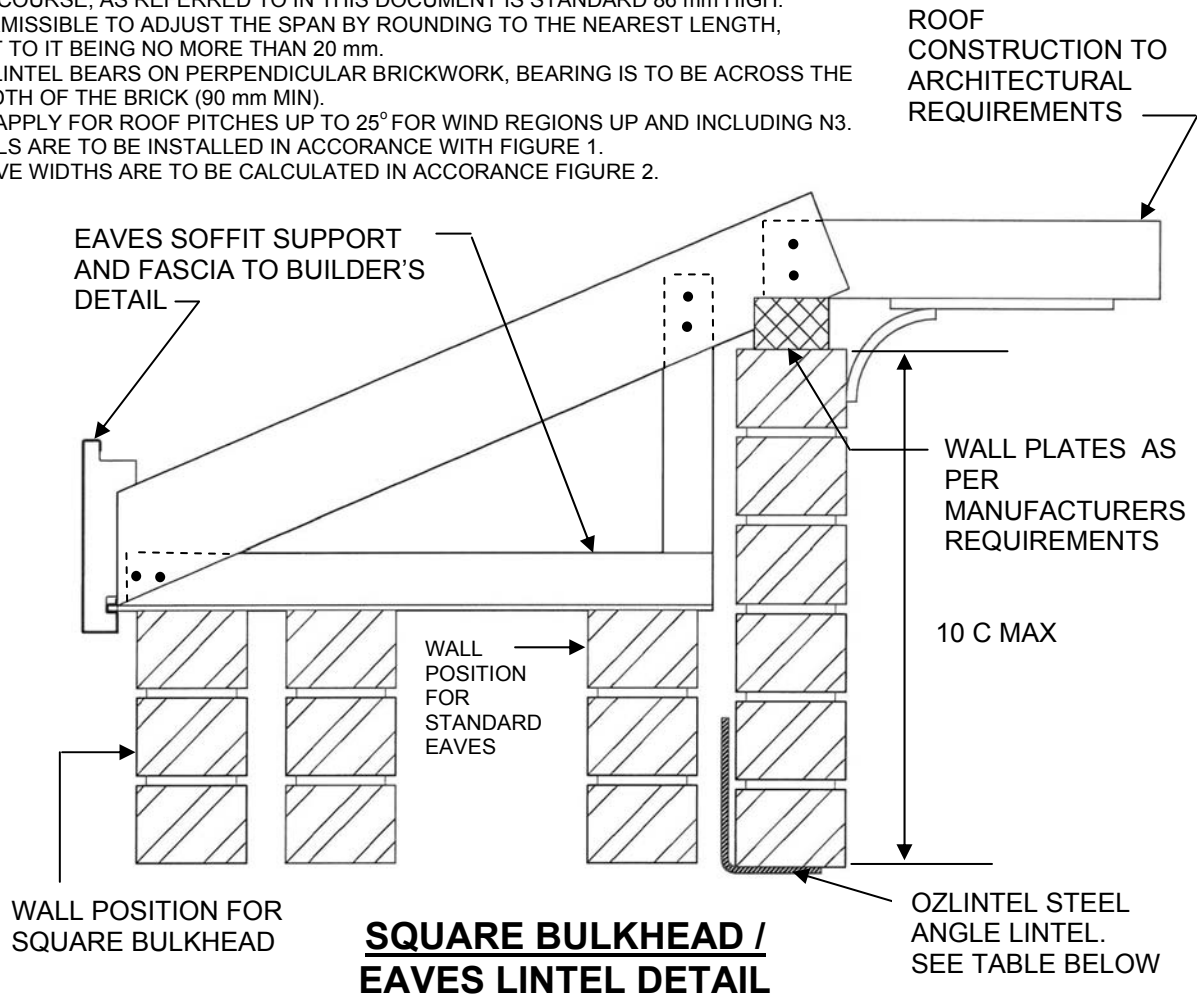
Section	Mass kg/m	Tile Roof			
		No. of Brick Courses Supported by Lintel = 10			
		Effective Width			
		3600		6600	
		Maximum Opening mm	Minimum End Bearing Length mm	Maximum Opening mm	Minimum End Bearing Length mm
75x 75x6	6.56	1400	150	1200	150
100x 75x6	7.74	1800	150	1600	150
75x 75x8	8.59	1500	150	1300	150
100x100x6	8.92	1900	150	1600	150
125x 75x6	8.92	2200	150	1900	150
100x 75x8	10.2	2000	150	1700	150
90x 90x8	10.5	1770	150	1530	150
150x100x6	11.3	2510	150	2010	150
100x100x8	11.7	2000	150	1800	150
125x 75x8	11.7	2400	150	2100	150
150x 90x8	14.2	3000	150	2500	150
150x100x8	14.9	2870	150	2480	150

Attention: The 90x90x5 OZLintel meets or exceeds spans provided by 75x75x6 & 75x75x8 in the above table and is a straight substitution. The 90x90x5 OZLintel provides a 6% weight saving over the 75x75x6 and a 27% weight saving over the 75x75x8 HRS angle / HDG.

NOTES:

1. THIS DETAIL IS TO PROVIDE LINTEL SIZES ONLY.
2. REFER TO BUILDER'S AND/OR TRUSS MANUFACTURER'S SPECIFICATION FOR ROOF & CEILING MEMBER SIZES AND SPACINGS.
3. LINTELS ARE DESIGNED TO SUPPORT 10C OF BRICKWORK & UP TO 3.6 m OR 6.6 m OF METAL ROOF & CEILING.
4. DO NOT SUPPORT ROOF STRUTTING BEAMS OR OTHER POINT LOADS OVER THE LINTEL.
5. A BRICK COURSE, AS REFERRED TO IN THIS DOCUMENT IS STANDARD 86 mm HIGH.
6. IT IS PERMISSIBLE TO ADJUST THE SPAN BY ROUNDING TO THE NEAREST LENGTH, SUBJECT TO IT BEING NO MORE THAN 20 mm.
7. WHERE LINTEL BEARS ON PERPENDICULAR BRICKWORK, BEARING IS TO BE ACROSS THE FULL WIDTH OF THE BRICK (90 mm MIN).
8. TABLES APPLY FOR ROOF PITCHES UP TO 25° FOR WIND REGIONS UP AND INCLUDING N3.
9. OZLINTELS ARE TO BE INSTALLED IN ACCORDANCE WITH FIGURE 1.
10. EFFECTIVE WIDTHS ARE TO BE CALCULATED IN ACCORDANCE FIGURE 2.

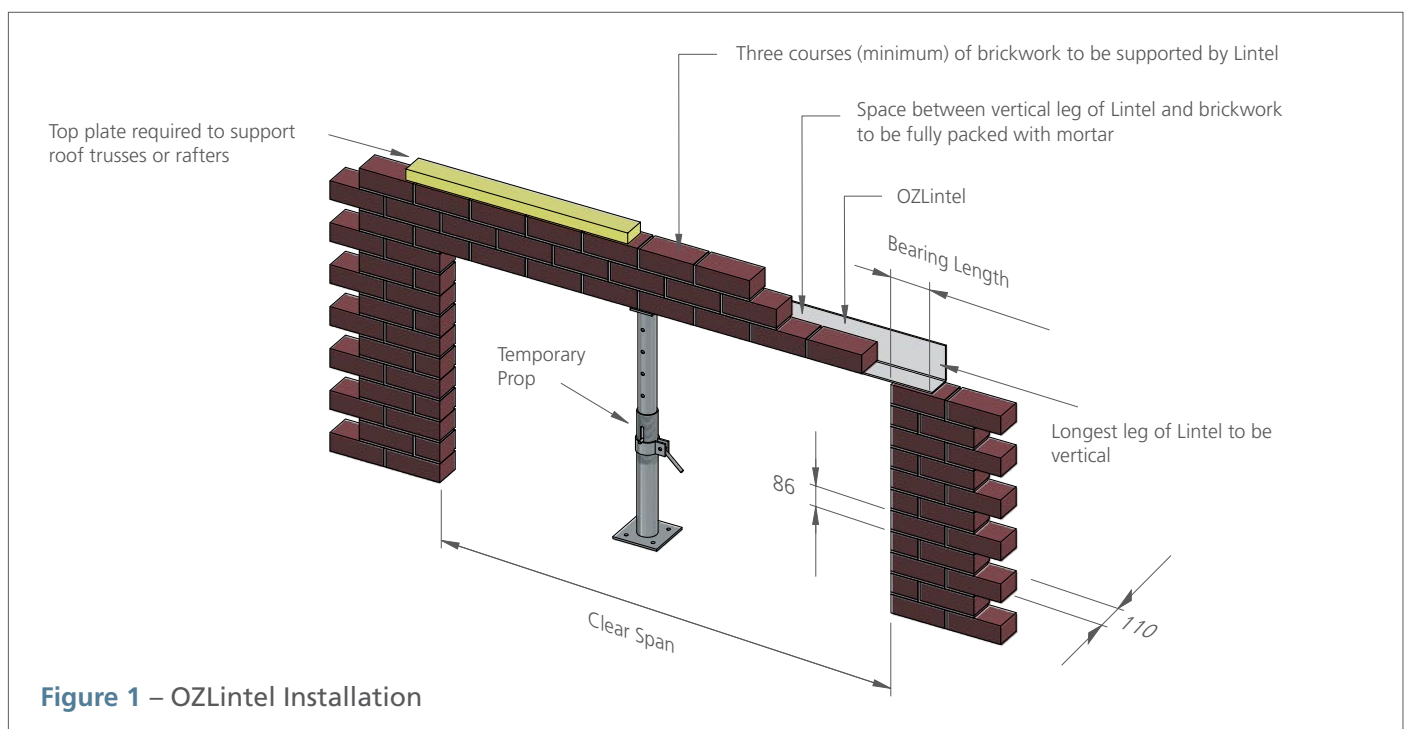
METAL ROOF 10 Courses



Section	Mass kg/m	Metal Roof			
		No. of Brick Courses Supported by Lintel = 10			
		Effective Width			
		3600		6600	
		Maximum Opening mm	Minimum End Bearing Length mm	Maximum Opening mm	Minimum End Bearing Length mm
75x 75x6	6.56	1600	150	1400	150
100x 75x6	7.74	2100	150	1900	150
75x 75x8	8.59	1800	150	1600	150
100x100x6	8.92	2200	150	2000	150
125x 75x6	8.92	2600	150	2400	150
100x 75x8	10.2	2300	150	2100	150
90x 90x8	10.5	2010	150	1780	150
150x100x6	11.3	2890	150	2360	150
100x100x8	11.7	2400	150	2100	150
125x 75x8	11.7	3000	150	2600	150
150x 90x8	14.2	3300	150	3100	150
150x100x8	14.9	3600	150	2880	150

Attention: The 90x90x5 OZLintel meets or exceeds spans provided by 75x75x6 & 75x75x8 in the above table and is a straight substitution. The 90x90x5 OZLintel provides a 6% weight saving over the 75x75x6 and a 27% weight saving over the 75x75x8 HRS angle / HDG.

OZLINTEL INSTALLATION



ROOF LOAD WIDTH CALCULATOR

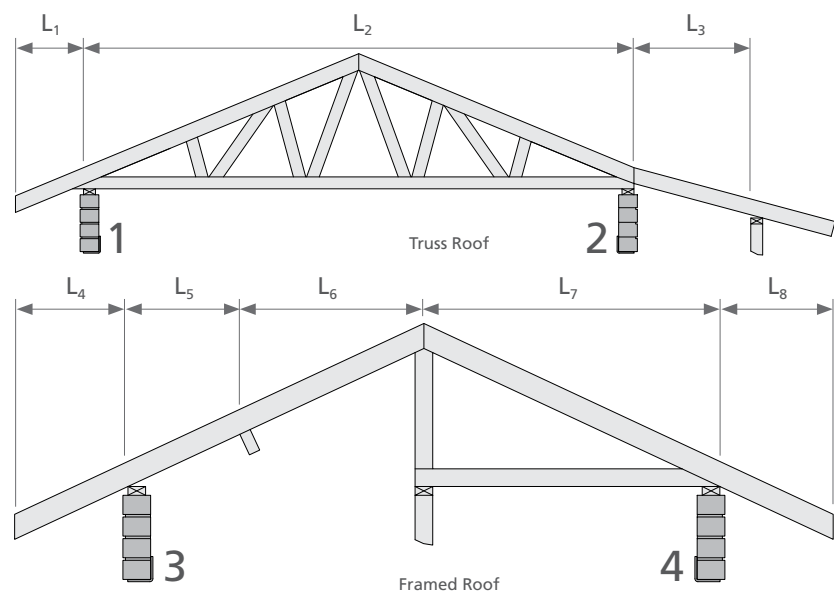
RLW = Roof Load Width

Lintel 1: $RLW = L_2/2 + L_1$

Lintel 2: $RLW = (L_2 + L_3)/2$

Lintel 3: $RLW = L_5/2 + L_4$

Lintel 4: $RLW = L_7/2 + L_8$





DURAGAL® PLATINUM TECHNICAL INFORMATION

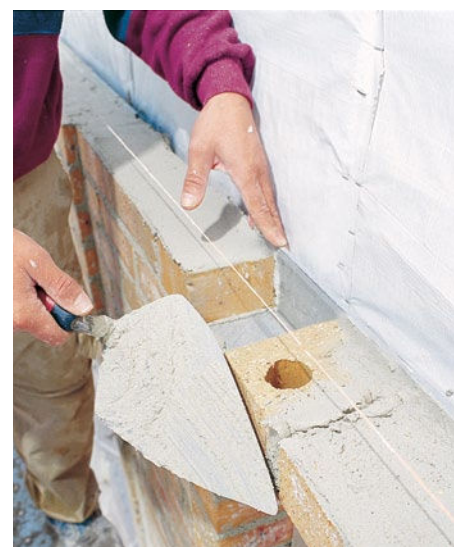
The DuraGal® Platinum coating technology applies a hot-dip zinc aluminium coating using our innovative application process pioneered in Australia by OneSteel Australian Tube Mills.

Our specialised application process and quality control procedures detailed in TS100 ensures that DuraGal® Platinum coated OZLintels continue to be manufactured and inspected to the standards required by AS/NZS 4791:2006 — Hot-dip galvanized (zinc) coatings on ferrous open sections, applied by an in-line process.

OZLintels with DuraGal® Platinum comply with the AS3700-2001 R3 durability classification requirements for built-in components, by meeting the performance requirements, when tested in accordance with Appendix B of AS/NZS 2699.3:2002 — Built-in components for masonry construction Part 3: Lintels and shelf angles (durability requirements).

The Building Code of Australia recognises AS3700-2001 as an acceptable construction manual, the R3 classification of OZLintels ensures compliance with the Building Code, when used in accordance with Table 3.

For further information or to review our manufacturing standard TS100, please visit www.austubemills.com.



OZLINTEL CLASSIFICATIONS

Certification of OZLintels is simple, as the R3 rating is clearly line marked on every length, in a position visible after installation, as required by AS/NZS 2699.3:2002 Section 4, for easy inspection and peace of mind.

TABLE 3: MINIMUM DISTANCE RECOMMENDATIONS

For R3 durability classifications in accordance with AS3700-2001

Type of Coastline	Minimum Distance to Coastline ¹
Non-Surf	100m
Surf	1km

NOTES

- 1 The distance specified are from the mean high-water mark.
- 2 The actual distances required from a corrosion source to provide the required performance will depend upon many factors such as prevailing winds, weather shielding exist (ie by trees and adjacent buildings), the topography of the surrounding area, and exposure to rain. In any building application, the specific micro climatic conditions must always be considered and taken into account.





CUT END PROTECTION AND HANDLING GUIDELINES

DuraGal® Platinum OZLintels are supplied with the cut ends protected with a zinc rich polyurethane primer as detailed in TS100. This primer complies with AS/NZS 3750.9: 2009, Paints for steel structures Part 9: Organic zinc-rich primer, type 1 — single pack primer.

Care should be taken during transport and handling to avoid damaging cut end protection prior to installation. Should the coating be damaged or if additional processing of the Lintel is required, it may be repaired by applying Jotun Galvanite zinc rich polyurethane primer, or equivalent, to a 100 µm dry film thickness.

Prior to reinstating the coating, any surface contamination including dirt, oil or corrosion products should be removed by an appropriate method. Observe normal good painting practice with respect to weather and apply strictly in accordance with the paint manufacturer's recommendations.



NOTES

These tables are based on calculations in accordance with the relevant Australian Loading Codes, the Cold Formed Steel Structures Code (AS/NZS 4600), and extensive in-house testing and additional structural performance testing conducted at The University of Sydney and The University of Newcastle.

- 1 Lintels are subjected to dead loads and live loads in accordance with AS/NZS 1170.1.
- 2 Designs are valid for clay brickwork up to 110mm thick, bricks 75mm high with a 10mm mortar bed.
- 3 The density of the brickwork is 1950kg/m³.
- 4 Angle Lintels are designed as simply supported single spans between supporting surfaces.
- 5 Maximum spacing of the roof trusses or rafter is 600mm.
- 6 It is assumed that the Lintels are fully restrained by the presence of mortar between the vertical leg of the Lintel and the brickwork, and will not be subjected to twisting.
- 7 No composite action between the Lintel and brickwork is assumed.
- 8 The Lintels are designed to support loads from domestic construction only.
- 9 The values published in the tables are based on the least load that will cause the Lintel to deflect an amount equal to its span/500, the Lintel to reach its shear design capacity or its moment design capacity.
- 10 Lintels must be propped during construction.
- 11 The design does not include Lintels supporting point loads of any sort, such as girder trusses and strutting beams.
- 12 The Lintels must be installed with a 100mm bearing length for clear spans less than 1 metre and 150mm bearing length for clear spans greater than 1 metre.
- 13 The space between the vertical leg of the Lintel and the brickwork must be packed with mortar.
- 14 In the case where an unequal angle is used, the longest leg of the Lintel must be oriented vertically.
- 15 It is recommended that you should take professional advice to support your selection from these tables.



OneSteel Australian Tube Mills
146 Ingram Road, Acacia Ridge
Queensland 4110 Australia
PO Box 246, Sunnybank
Queensland 4109 Australia
Phone: +61 7 3909 6600
Fax: +61 7 3909 6660
www.austubemills.com

onesteel
australian tube mills

DISTRIBUTED BY



This publication has been prepared as a guide only to assist anyone that may specify or use the products described in this publication. Accordingly, while OneSteel has endeavoured to ensure that all information provided in this publication is accurate and up-to-date, the following must be noted: this publication does not take into account any individual circumstances and is therefore not a substitute for informed or professional individual advice; the specifications and technical data relating to the products described in this publication are approximate and subject to change without notice, and users should check the currency of the information before relying upon it; and unless required by law, OneSteel does not accept any responsibility for any loss, damage or consequence resulting from the contents of this publication or from any omission of information in this publication.
© Copyright OneSteel Australian Tube Mills Pty Ltd. DuraGal® Platinum, OZProfiles™ and OZLintel™ are registered trade marks of OneSteel Australian Tube Mills Pty Ltd. February 2012. Ems5777.