



# LINTELS

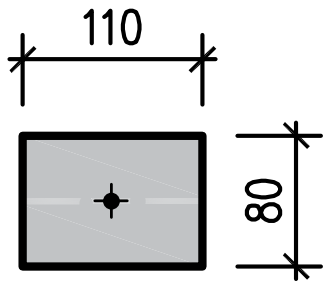
FIRE-RATED, HIGH STRENGTH,  
PRESTRESSED CONCRETE ULTRALINTELS



**ULTRA**lintel<sup>®</sup>

**ULTRA** concrete  
products

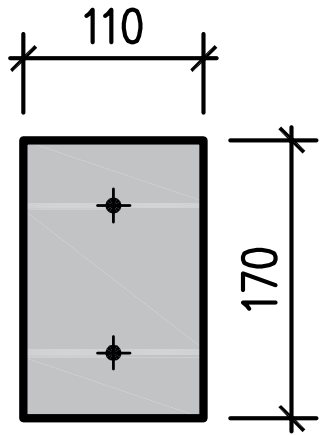
## PRODUCT DATA



110 x 80mm Standard  
Ultrintel

Fire Resistance Level =  
60 minutes

Weight = 21kg/m



110 x 170mm Standard  
Ultrintel

Fire Resistance Level =  
120 minutes

Weight = 45kg/m

## ULTRALINTELS AND HOBS

Ultralintels are:

- Made of high strength concrete under strict quality control.
- Manufactured in two convenient sizes to suit standard bricks and are easily rendered or covered with gyprock internally.
- Fire rated under load in accordance with AS 1530.4-2014.
- Non-corrodible and thus ideal for marine and industrial exposure conditions.
- Able to be used in pier and beam situations for new house foundations and also for re-cladding of existing houses.
- Ideal for use in creating an upstand ("hob") on a concrete slab.

The load charts provided in this brochure indicate the safe maximum span when Ultralintels are installed in various configurations.

## CONSTRUCTION NOTES

### Composite Action

The load carrying capacity of the Ultralintels increases significantly when they act compositely with the brickwork above. This additional strength depends on the number of brick courses applied and the tables provided in this brochure give an indication of the maximum spans in different configurations.

**The following instructions are important:**

- ***Ultralintels must be placed with the rough side on top to provide a proper key to the masonry above;***
- ***Ultralintels must be propped at intervals not exceeding 1500mm until the masonry mortar has matured.***

### Bearing Length

The minimum end bearing of the Ultrintel on the brickwork is 100mm for spans up to 1200mm and 150mm for longer spans, based on the assumption of a minimum brick crushing strength of 20 MPa.



## 110 X 80MM STANDARD PRESTRESSED ULTRALINTEL

| SAFE WORKING LOADS (kN/m)<br>Based on the strength of the Ultralintel only |                    |      |      |      |      |      |      |      |      |      |      |      |
|----------------------------------------------------------------------------|--------------------|------|------|------|------|------|------|------|------|------|------|------|
|                                                                            | CLEAR OPENING (mm) |      |      |      |      |      |      |      |      |      |      |      |
|                                                                            | 900                | 1200 | 1500 | 1800 | 2100 | 2400 | 2700 | 3000 | 3300 | 3600 | 3900 | 4200 |
| To satisfy L/1000 deflection                                               | 12.7               | 6.3  | 3.1  | 1.7  | 1.0  | 0.6  | –    | –    | –    | –    | –    | –    |
| To satisfy L/300 deflection                                                | 26.0               | 11.7 | 6.3  | 3.8  | 2.5  | 1.7  | 1.2  | –    | –    | –    | –    | –    |

| SAFE WORKING LOADS (kN/m)<br>Based on the composite strength of the Ultralintel and brickwork only |                    |      |      |      |      |      |      |      |      |      |      |      |
|----------------------------------------------------------------------------------------------------|--------------------|------|------|------|------|------|------|------|------|------|------|------|
| To satisfy L/1000 deflection                                                                       | CLEAR OPENING (mm) |      |      |      |      |      |      |      |      |      |      |      |
|                                                                                                    | 900                | 1200 | 1500 | 1800 | 2100 | 2400 | 2700 | 3000 | 3300 | 3600 | 3900 | 4200 |
| 2 courses of standard bricks over the Ultralintel                                                  | 16.8               | 12.5 | 9.3  | 5.2  | 3.1  | 1.9  | 1.1  | 0.7  | –    | –    | –    | –    |
| 4 courses of standard bricks over the Ultralintel                                                  | 20.7               | 15.3 | 12.0 | 9.9  | 8.4  | 7.2  | 6.3  | 5.0  | 3.6  | 2.5  | 1.8  | 1.3  |
| 6 courses of standard bricks over the Ultralintel                                                  | 24.5               | 18.1 | 14.2 | 11.7 | 9.8  | 8.5  | 7.4  | 6.5  | 5.8  | 5.2  | 4.7  | 4.3  |

## 110 X 170MM STANDARD PRESTRESSED ULTRALINTEL

| SAFE WORKING LOADS (kN/m)<br>Based on the strength of the Ultralintel only |                    |      |      |      |      |      |      |      |      |      |      |      |
|----------------------------------------------------------------------------|--------------------|------|------|------|------|------|------|------|------|------|------|------|
|                                                                            | CLEAR OPENING (mm) |      |      |      |      |      |      |      |      |      |      |      |
|                                                                            | 900                | 1200 | 1500 | 1800 | 2100 | 2400 | 2700 | 3000 | 3300 | 3600 | 3900 | 4200 |
| To satisfy L/1000 deflection                                               | 26.7               | 19.9 | 15.8 | 13.1 | 10.6 | 7.5  | 5.1  | 3.6  | 2.6  | 1.9  | 1.4  | 1.0  |
| To satisfy L/300 deflection                                                | 41.3               | 32.0 | 26.0 | 18.9 | 13.8 | 10.2 | 7.0  | 5.0  | 3.7  | 2.7  | 2.0  | 1.5  |

| SAFE WORKING LOADS (kN/m)<br>Based on the composite strength of the Ultralintel and brickwork only |                    |      |      |      |      |      |      |      |      |      |      |      |
|----------------------------------------------------------------------------------------------------|--------------------|------|------|------|------|------|------|------|------|------|------|------|
| To satisfy L/1000 deflection                                                                       | CLEAR OPENING (mm) |      |      |      |      |      |      |      |      |      |      |      |
|                                                                                                    | 900                | 1200 | 1500 | 1800 | 2100 | 2400 | 2700 | 3000 | 3300 | 3600 | 3900 | 4200 |
| 2 courses of standard bricks over the Ultralintel                                                  | 30.6               | 22.7 | 18.0 | 14.3 | 10.4 | 7.8  | 6.0  | 4.4  | 3.1  | 2.2  | 1.6  | 1.1  |
| 4 courses of standard bricks over the Ultralintel                                                  | 34.4               | 25.6 | 20.2 | 16.7 | 14.1 | 11.2 | 8.7  | 6.9  | 5.5  | 4.5  | 3.7  | 2.8  |
| 6 courses of standard bricks over the Ultralintel                                                  | 38.3               | 28.4 | 22.4 | 18.4 | 15.6 | 13.5 | 11.8 | 10.5 | 9.4  | 8.5  | 7.2  | 6.0  |

### THE FOLLOWING NOTES APPLY TO ALL ULTRALINTELS:

1. Mortar must be Classification M3 in accordance with AS3700-1998. Ratio of cement to sand must be 1:6 or better.
2. All vertical and horizontal joints must be completely filled with mortar.
3. The surface of the Ultralintel must be moistened, in hot weather, to provide a good key until brickwork has matured.
4. 100mm end bearing for spans less than 1200mm and 150mm end bearing for spans greater than 1200mm assuming a minimum brick crushing strength of 20 MPa.
5. The self-weight of the Ultralintel and arching of loads have been allowed for in the calculations.

# PRESTRESSED or REINFORCED? NO CONTEST... **ULTRALINTELS WIN!**

QUALITY PRODUCTS PROVIDE QUALITY OUTCOMES

|                   | ULTRALINTELS | REINFORCED | THE 12 ADVANTAGES OF ULTRALINTELS                                                      |
|-------------------|--------------|------------|----------------------------------------------------------------------------------------|
| Dimension         | ✓            | ✗          | Ultralintels are thinner with a brick module height. (80mm or 170mm)                   |
| Length            | ✓            | ✗          | Ultralintels are available in stock lengths in 300mm increments + custom lengths       |
| Weight            | ✓            | ✗          | Ultralintels are easier to manhandle. They are lighter for a given capacity.           |
| Concrete Strength | ✓            | ✗          | Ultralintels have a concrete strength of 70 MPa                                        |
| Load Capacity     | ✓            | ✗          | Ultralintels have greater load capacity than reinforced lintels due to prestressing    |
| Span              | ✓            | ✗          | Ultralintels have greater spanning capacity than reinforced lintels (3.6m for 80 deep) |
| Propping          | ✓            | ✗          | Ultralintels span further without a temporary prop                                     |
| Cracking          | ✓            | ✗          | Ultralintels cannot crack under load due to the prestressing                           |
| Durability        | ✓            | ✗          | Ultralintels have no reinforcing bars. No concrete cancer as strand does not corrode!  |
| Rendering         | ✓            | ✗          | Ultralintels have rough side surfaces that are ideal for rendering                     |
| Fire resistance   | ✓            | ✗          | Ultralintels are the only lintel fire tested under load by CSIRO                       |
| Quality Assurance | ✓            | ✗          | Ultralintels are manufactured to ISO9001                                               |

## ULTRALINTEL DISTRIBUTORS

BC SANDS PTY LTD  
26 Atkinson Rd, Taren Point  
T • 8543 3401

COMPLETE LINTELS PTY LTD  
233 Annangrove Rd, Annangrove  
T • 9672 4840

HARDWARE & GENERAL : BROOKVALE  
Winbourne Rd, Brookvale  
T • 8456 1166

HARDWARE & GENERAL : PEAKHURST  
107-109 Boundary Rd, Peakhurst  
T • 9533 4466

HARDWARE & GENERAL : DURAL  
238 New Line Rd, Dural  
T • 9651 2200

NEPEAN BUILDING & INFRASTRUCTURE  
117-153 Rookwood Rd, Yagoona  
T • 1800 546 835

NORTH SHORE CEMENT & SAND P/L  
20 Roseberry St, Manly Vale  
T • 9948 5252

MD BRICK  
9 Dyer Crescent, West Gosford  
T • 1300 884 363

P.W. SADDINGTON & SONS  
Lambton Rd, Broadmeadow  
T • 4969 6422

VINCENT BUDA & CO / VARRD PL  
82-88 Benaroon Rd, Belmore  
T • 9740 1500

VESPOL PTY LTD  
26 Garner Place, Ingleburn  
T • 8795 5100

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