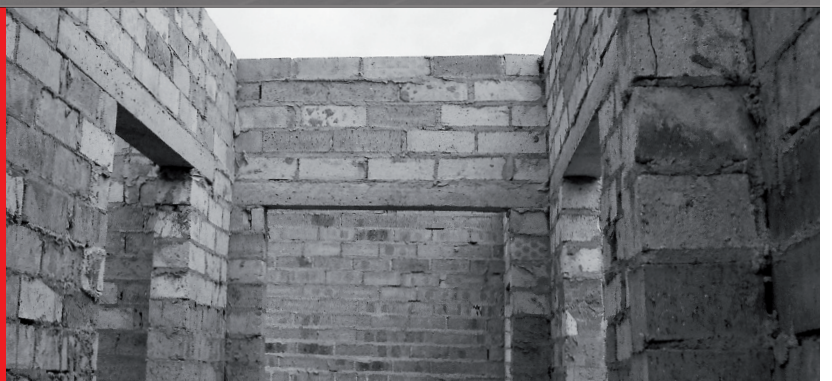


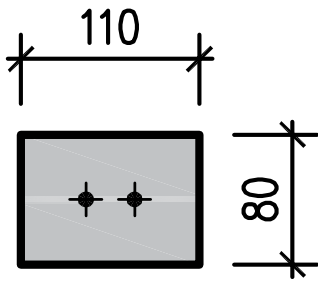
# LINTELS

FIRE-RATED, HIGH STRENGTH,  
PRESTRESSED CONCRETE ULTRALINTELS



**ULTRA**floor®

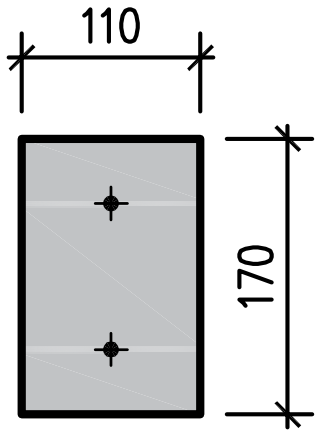
## PRODUCT DATA



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

## ULTRAFLOOR ULTRALINTELS AND HOBS

Ultrafloor 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 1530.4-1990.
- 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 Ultrafloor Ultralintels are installed in various configurations.

## CONSTRUCTION NOTES

### Composite Action

The load carrying capacity of the Ultrafloor 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.

*Any abnormal loading situation must be referred to the Ultrafloor Technical Department for further advice.*





## 110 X 80MM STANDARD PRESTRESSED ULTRALINTEL

SAFE WORKING LOADS (kN/m) 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) 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) 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) 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 ULTRAFLOOR 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 DISTRIBUTOR



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# ULTRAFLOOR®

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