

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.