

Coursing Chart

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A BORAL COMPANY

STANDARD BRICK

BRICKWORK DIMENSIONS Bricks per m² in wall = 48.5 approx. all dimensions in mm

FORMAT SIZE: 240x120x86mm MANUFACTURING SIZE: 230x110x76mm VERTICAL GAUGE: 7 Courses to 600mm

NO. OF BRICKS	LENGTH	OPENING	HEIGHT	NO. OF BRICKS	LENGTH	OPENING	HEIGHT
1	230	250	86	26	6230	6250	2229
1½	350	370		26½	6350	6370	
2	470	490	172	27	6470	6490	2314
2½	590	610		27½	6590	6610	
3	710	730	257	28	6710	6730	2400
3½	830	850		28½	6830	6850	
4	950	970	343	29	6950	6970	2486
4½	1070	1090		29½	7070	7090	
5	1190	1210	429	30	7190	7210	2572
5½	1310	1330		30½	7310	7330	
6	1430	1450	514	31	7430	7450	2657
6½	1550	1570		31½	7550	7570	
7	1670	1690	600	32	7670	7690	2743
7½	1790	1810		32½	7790	7810	
8	1910	1930	686	33	7910	7930	2829
8½	2030	2050		33½	8030	8050	
9	2150	2170	772	34	8150	8170	2914
9½	2270	2290		34½	8270	8290	
10	2390	2410	857	35	8390	8400	3000
10½	2510	2530		35½	8510		
11	2630	2650	943	36	8630		3086
11½	2750	2770		36½	8750		
12	2870	2890	1029	37	8870		3172
12½	2990	3010		37½	8990		
13	3110	3130	1114	38	9110		3257
13½	3230	3250		38½	9230		
14	3350	3370	1200	39	9350		3343
14½	3470	3490		39½	9470		
15	3590	3610	1286	40	9590		3429
15½	3710	3730		40½	9710		
16	3830	3850	1372	41	9830		3514
16½	3950	3970		41½	9950		
17	4070	4090	1457	42	10070		3600
17½	4190	4210		42½	10190		
18	4310	4330	1543	43	10310		3686
18½	4430	4450		43½	10430		
19	4550	4570	1629	44	10550		3772
19½	4670	4690		44½	10670		
20	4790	4810	1714	45	10790		3857
20½	4910	4930		45½	10910		
21	5030	5050	1800	46	11030		3943
21½	5150	5170		46½	11150		
22	5270	5290	1886	47	11270		4029
22½	5390	5410		47½	11390		
23	5510	5530	1972	48	11510		4114
23½	5630	5650		48½	11630		
24	5750	5770	2057	49	11750		4200
24½	5870	5890		49½	11870		
25	5990	6010	2143	50	11990		4286
25½	6110	6130		100	23990		8572

NOT OFTEN REQUIRED. IF NEEDED ADD 20 TO LENGTH.

MODULAR BRICK

BRICKWORK DIMENSIONS Bricks per m² in wall = 33.3 approx. all dimensions in mm

FORMAT SIZE: 300x100x100mm MANUFACTURING SIZE: 290x90x90mm VERTICAL GAUGE: 6 Courses to 600mm

NO. OF BRICKS	LENGTH	OPENING	HEIGHT	NO. OF BRICKS	LENGTH	OPENING	HEIGHT
1½	390	410		26½	7890		
1¾	490	510		26¾	7990		
2	590	610	200	27	8090		2700
2¼	690	710		27¼	8190		
2½	790	810		27½	8290		
3	890	910	300	28	8390		2800
3¼	990	1010		28¼	8490		
3½	1090	1110		28½	8590		
4	1190	1210	400	29	8690		2900
4¼	1290	1310		29¼	8790		
4½	1390	1410		29½	8890		
5	1490	1510	500	30	8990		3000
5¼	1590	1610		30¼	9090		
5½	1690	1710		30½	9190		
6	1790	1810	600	31	9290		
6¼	1890	1910		31¼	9390		
6½	1990	2010		31½	9490		
7	2090	2110	700	32	9590		
7¼	2190	2210		32¼	9690		
7½	2290	2310		32½	9790		
8	2390	2410	800	33	9890		
8¼	2490	2510		33¼	9990		
8½	2590	2610		33½	10090		
9	2690	2710	900	34	10190		
9¼	2790	2810		34¼	10290		
9½	2890	2910		34½	10390		
10	2990	3010	1000	35	10490		
10¼	3090	3110		35¼	10590		
10½	3190	3210		35½	10690		
11	3290	3310	1100	36	10790		
11¼	3390	3410		36¼	10890		
11½	3490	3510		36½	10990		
12	3590	3610	1200	37	11090		
12¼	3690	3710		37¼	11190		
12½	3790	3810		37½	11290		
13	3890	3910	1300	38	11390		
13¼	3990	4010		38¼	11490		
13½	4090	4110		38½	11590		
14	4190	4210	1400	39	11690		
14¼	4290	4310		39¼	11790		
14½	4390	4410		39½	11890		
15	4490	4510	1500	40	11990		
15¼	4590	4610		40¼	12090		
15½	4690	4710		40½	12190		
16	4790	4810	1600	41	12290		
16¼	4890	4910		41¼	12390		
16½	4990	5010		41½	12490		
17	5090	5110	1700	42	12590		
17¼	5190	5210		42¼	12690		
17½	5290	5310		42½	12790		
18	5390	5410	1800	43	12890		
18¼	5490	5510		43¼	12990		
18½	5590	5610		43½	13090		
19	5690	5710	1900	44	13190		
19¼	5790	5810		44¼	13290		
19½	5890	5910		44½	13390		
20	5990	6010	2000	45	13490		
20¼	6090	6110		45¼	13590		
20½	6190	6210		45½	13690		
21	6290	6310	2100	46	13790		
21¼	6390	6410		46¼	13890		
21½	6490	6510		46½	13990		
22	6590	6610	2200	47	14090		
22¼	6690	6710		47¼	14190		
22½	6790	6810		47½	14290		
23	6890	6910	2300	48	14390		
23¼	6990	7010		48¼	14490		
23½	7090	7110		48½	14590		
24	7190	7210	2400	49	14690		
24¼	7290	7310		49¼	14790		
24½	7390	7410		49½	14890		
25	7490	7510	2500	50	14990		
25¼	7590	7610		100	29990		
25½	7690						

NOT OFTEN REQUIRED. IF NEEDED ADD 20 TO LENGTH.

HIGHREACH

BRICKWORK DIMENSIONS

(Bricks per m² in wall = 24.6 approx.) all dimensions in mm

FORMAT SIZE: 315x100x129mm MANUFACTURING SIZE: 305x90x119mm VERTICAL GAUGE: 7 Courses to 900mm

NO. OF BRICKS	LENGTH	OPENING	HEIGHT	STD BRICK COURSE EQUIVALENT
1	305	325	129	
2	620	640	257	3
3	935	955	386	
4	1250	1270	514	6
5	1565	1585	643	
6	1880	1900	772	9
7	2195	2215	900	
8	2510	2530	1029	12
9	2825	2845	1157	
10	3140	3160	1286	15
11	3455	3475	1414	
12	3770	3790	1543	18
13	4085	4105	1671	
14	4400	4420	1800	21
15	4715	4735	1928	
16	5030	5050	2057	24
17	5345	5365	2185	
18	5660	5680	2314	27
19	5975	5995	2442	
20	6290	6310	2572	30
21	6605	6625	2699	
22	6920	6940	2829	33
23	7235	7255	2956	
24	7550	7570	3086	36
25	7865	7885		
26	8180	8200		
27	8495	8515		
28	8810	8830		
29	9125	9145		
30	9440	9460		

The maximum allowable height for internal 90mm masonry is 2700mm. Refer to Section 3.3.1.3 and Section 3.3.1.4 of the Building Code of Australia.

For heights above 2700mm, refer your project to a Structural Engineer.



A BORAL COMPANY

MAY 2018

LONGREACH BRICK

BRICKWORK DIMENSIONS Bricks per m² in wall = 37 approx.) all dimensions in mm

FORMAT SIZE: 315x100x86mm MANUFACTURING SIZE: 305x90x76MM VERTICAL GAUGE: 7 Courses to 600mm

NO. OF BRICKS	LENGTH	OPENING	HEIGHT	NO. OF BRICKS	LENGTH	OPENING	HEIGHT
1	305	325	86	26	8180	8200	2229
1½	405	425		26½	8280	8300	
1¾	505	525		26¾	8380	8400	
2	620	640	172	27	8495	8515	2314
2½	720	740		27½	8595	8615	
2¾	820	840		27¾	8695	8715	
3	935	955	257	28	8810	8830	2400
3½	1035	1055		28½	8910	8930	
3¾	1135	1155		28¾	9010	9030	
4	1250	1270	343	29	9125	9145	2486
4½	1350	1370		29½	9225	9245	
4¾	1450	1470		29¾	9325	9345	
5	1565	1585	429	30	9440	9460	2572
5½	1665	1685		30½	9540	9560	
5¾	1765	1785		30¾	9640	9660	
6	1880	1900	514	31	9755	9775	2657
6½	1980	2000		31½	9855	9875	
6¾	2080	2100		31¾	9955	9975	
7	2195	2215	600	32	10070	10090	2743
7½	2295	2315		32½	10170	10190	
7¾	2395	2415		32¾	10270	10290	
8	2510	2530	686	33	10385	10405	2829
8½	2610	2630		33½	10485	10505	
8¾	2710	2730		33¾	10585	10605	
9	2825	2845	772	34	10700	10720	2914
9½	2925	2945		34½	10800	10820	
9¾	3025	3045		34¾	10900	10920	
10	3140	3160	857	35	11015	11035	3000
10½	3240	3260		35½	11115	11135	
10¾	3340	3360		35¾	11215	11235	
11	3455	3475	943	36	11330	11350	3086
11½	3555	3575		36½	11430		
11¾	3655	3675		36¾	11530		
12	3770	3790	1029	37	11645		
12½	3870	3890		37½	11745		
12¾	3970	3990		37¾	11845		
13	4085	4105	1114	38	11960		
13½	4185	4205		38½	12060		
13¾	4285	4305		38¾	12160		
14	4400	4420	1200	39	12275		
14½	4500	4520		39½	12375		
14¾	4600	4620		39¾	12475		
15	4715	4735	1286	40	12590		
15½	4815	4835		40½	12690		
15¾	4915	4935		40¾	12790		
16	5030	5050	1372	41	12905		
16½	5130	5150		41½	13005		
16¾	5230	5250		41¾	13105		
17	5345	5365	1457	42	13220		
17½	5445	5465		42½	13320		
17¾	5545	5565		42¾	13420		
18	5660	5680	1543	43	13535		
18½	5760	5780		43½	13635		
18¾	5860	5880		43¾	13735		
19	5975	5995	1629	44	13850		
19½	6075	6095		44½	13950		
19¾	6175	6195		44¾	14050		
20	6290	6310	1714	45	14165		
20½	6390	6410		45½	14265		
20¾	6490	6510		45¾	14365		
21	6605	6625	1800	46	14480		
21½	6705	6725		46½	14580		
21¾	6805	6825		46¾	14680		
22	6920	6940	1886	47	14795		
22½	7020	7040		47½	14895		
22¾	7120	7140		47¾	15005		
23	7235	7255	1972	48	15110		
23½	7335	7355		48½	15210		
23¾	7435	7455		48¾	15310		
24	7550	7570	2057	49	15425		
24½	7650	7670		49½	15525		
24¾	7750	7770		49¾	15625		
25	7865	7885	2143	50	15740		
25½	7965	7985		50½	15840		
25¾	8065	8085		50¾	15940		

MAXIBRICK/FASTWALL

BRICKWORK DIMENSIONS Bricks per m² in wall = 18.5 approx.)

FORMAT SIZE: 315x100x172mm MANUFACTURING SIZE: 305x90x162mm VERTICAL GAUGE: 7 Courses to 1200mm

NOTE: This measurement allows for mortar in perpends also in horizontal joints.

NO. OF BRICKS	LENGTH	OPENING	HEIGHT	NO. OF BRICKS	LENGTH	OPENING	HEIGHT
1	305	325	172	26	8180	8200	
1½	405	425		26½	8280	8300	
1¾	505	525		26¾	8380	8400	
2	620	640	343	27	8495		
2½	720	740		27½	8595		
2¾	820	840		27¾	8695		
3	935	955	514	28	8810		
3½	1035	1055		28½	8910		
3¾	1135	1155		28¾	9010		
4	1250	1270	686	29	9125		
4½	1350	1370		29½	9225		
4¾	1450	1470		29¾	9325		
5	1565	1585	857	30	9440		
5½	1665	1685		30½	9540		
5¾	1765	1785		30¾	9640		
6	1880	1900	1029	31	9755		
6½	1980	2000		31½	9855		
6¾	2080	2100		31¾	9955		
7	2195	2215	1200	32	10070		
7½	2295	2315		32½	10170		
7¾	2395	2415		32¾	10270		
8	2510	2530	1372	33	10385		
8½	2610	2630		33½	10485		
8¾	2710	2730		33¾	10585		
9	2825	2845	1543	34	10700		
9½	2925	2945		34½	10800		
9¾	3025	3045		34¾	10900		
10	3140	3160	1714	35	11015		
10½	3240	3260		35½	11115		
10¾	3340	3360		35¾	11215		
11	3455	3475	1886	36	11330		
11½	3555	3575		36½	11430		
11¾	3655	3675		36¾	11530		
12	3770	3790	2057	37	11645		
12½	3870	3890		37½	11745		
12¾	3970	3990		37¾	11845		
13	4085	4105	2229	38	11960		
13½	4185	4205		38½	12060		
13¾	4285	4305		38¾	12160		
14	4400	4420	2400	39	12275		
14½	4500	4520		39½	12375		
14¾	4600	4620		39¾	12475		
15	4715	4735	2572	40	12590		
15½	4815	4835		40½	12690		
15¾	4915	4935		40¾	12790		
16	5030	5050	2743	41	12905		
16½	5130	5150		41½	13005		
16¾	5230	5250		41¾	13105		
17	5345	5365	2914	42	13220		
17½	5445	5465		42½	13320		
17¾	5545	5565		42¾	13420		
18	5660	5680	3086	43	13535		
18½	5760	5780		43½	13635		
18¾	5860	5880		43¾	13735		
19	5975	5995		44	13850		
19½	6075	6095		44½	13950		
19¾	6175	6195		44¾	14050		
20	6290	6310		45	14165		
20½	6390	6410		45½	14265		
20¾	6490	6510		45¾	14365		
21	6605	6625		46	14480		
21½	6705	6725		46½	14580		
21¾	6805	6825		46¾	14680		
22	6920	6940		47	14795		
22½	7020	7040		47½	14895		
22¾	7120	7140		47¾	15005		
23	7235	7255		48	15110		
23½	7335	7355		48½	15210		
23¾	7435	7455		48¾	15310		
24	7550	7570		49	15425		
24½	7650	7670		49½	15525		
24¾	7750	7770		49¾	15625		
25	7865	7885		50	15740		
25½	7965	7985		50½	15840		
25¾	8065	8085		50¾	15940		

Permissible height for single leaf wall per Building Code of Australia Part 3.3.

Above permissible height, subject to structural engineer's opinion.