

Additional Guidelines for Block Retaining Walls

The attached retaining wall sections & details recommend the use of either 200 mm or 300 mm series masonry blocks dependant upon the height of the retaining wall. Cavity brick can also be used provided that the cavity is the same width as the block it is replacing, similar reinforcement can be used.

1.

When laying blocks, face shells and perpend

should be fully bedded in mortar.
2.

Reinforcement must be positioned accurately

and tied securely before placing concrete

or grout.
3.

Vertical reinforcing bars, including starter

bars should be as close to the back face

as possible, consistent with cover

requirements.
4.

Mortar fins protruding into cores should

be removed before grouting.
5.

Cleanout openings should be provided in

the bottom course, in all reinforced

cores to permit removal of mortar fins

and other debris and to allow

positioning and tying of vertical

reinforcement. These openings must

be closed before grouting.
6.

It is recommended that ready mix

grout should be used wherever

available to workability

specifications given in the

current version of AS 1475.1. Site

mixed grout, if used should

be mixed thoroughly in a

tilting drum type paddle

mixer to the specification for

mix design and workability

set out in AS 1475.1 and

set to the same strength

specifications ready-mixed

grout(i.e.: 2/1/9 - Portland

cement/Hydrated lime/Fine

aggregate).
7.

All cores should be filled with

grout, whether reinforced or

not. This is essential to

bond and protect horizontal

reinforcement, provide a

full barrier against water

penetration and to give

maximum weight for

stability.
8.

Grout should be compacted

thoroughly so that voids

are not left. Compaction

may be by rodding with a

plain round bar (do not

use main vertical

reinforcing bars or other

deformed bars) or with a

high frequency pencil

vibrator, used carefully.
9.

Grout should be $F_c = 20$ Mpa

(AS 3600) with slump =

230 mm (AS 1012.3)
10.

Reinforcement should be

500 Mpa bars (AS1302).
11.

Articulation of block work

walls should be at

maximum 11 metre

spacings and/or where a

wall transgresses from

one footing type to

another.
12.

Where the bearing

capacity of the

foundation material is

less than 100 Kpa

(firm natural ground)

or soil conditions

vary to that

described in the

soil report, a

suitably qualified

engineer is to be

consulted prior to

the pouring of

concrete.
13.

This retaining wall

will not achieve its

required strength

until 28 days

after it is

constructed and

poured. Any

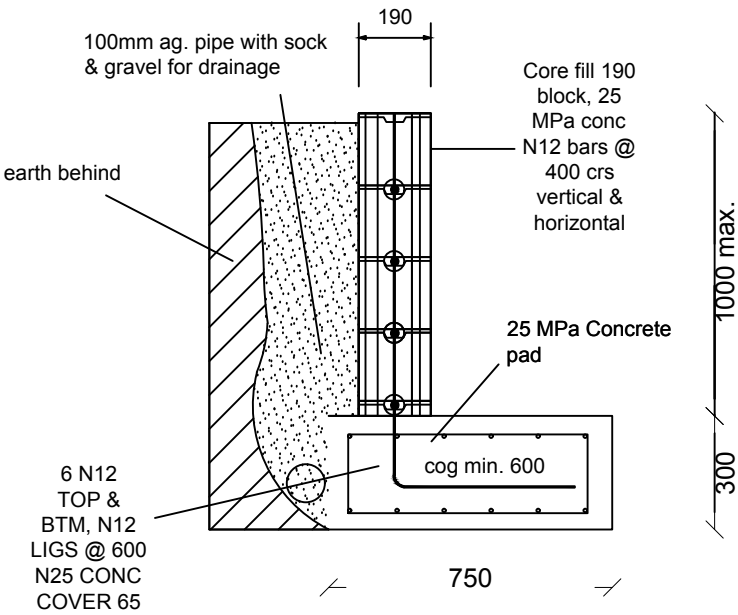
backfilling before

this time may

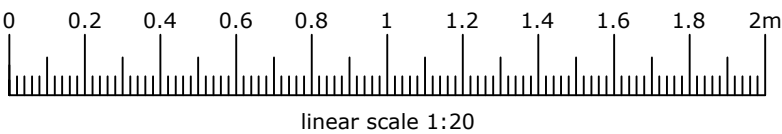
result in failure

of the wall.

RW1 Detail TO 1000mm



ADDITIONS AND ALTERATIONS



RETAINING WALL

LOT 4 SEC 54 DP 758207
28 CAVVANBAH ST
BYRON BAY NSW 2481

Revisions

rev	zone	description	date
a			
b			
c			
d			
e			

Client: SIMONE HUSSEY

DWG no.: S11

Scale: 1:20

Drawn: BK & TK

Checked: AK

Signed:

TRICEND

Design & Engineering

19/08/20

A3

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