

INSTALLATION - WALLS

1

EXCAVATION

1.1 After the initial drawing of your layout, make sure with the following companies; phone, electricity, gas and municipal services if there are any wires, cables or pipes located underground the digging area.

1.2 The depth of the trench will depend on the total height of the Fortress wall. Basically, 10 % of the height will be below ground level. Calculate also 150 mm (6 in.) of crushed stone used for the wall base.

1.3 Dig a trench with a minimum depth of 250 mm (10 in.) per 600 mm (24 in.) width. It is recommended to increase the depth of the excavated area if the trench is located on a clay soil.

2

FOUNDATION

2.1 Cover the back and the bottom of the trench with a geotextile membrane to prevent the soil from obstructing the drainage system. This geotextile membrane should project about 300 mm (12 in.) beyond the top of the slope.

2.2 Level the aggregate base with a 150 mm (6 in.) using 0-20 mm (0-¾ in.) crushed stone and compact it with the help of a vibrating plate or a jumping jack.

2.3 It is strongly recommended to place a 100 mm (4 in.) perforated drain on the bed of compacted stone behind the blocks and connect it to your existing drainage system. You should slope 2% of the base for an efficient drainage.

REMINDER

One metric ton (2200 lbs.) of 0-20 mm (0-¾ in.) crushed stone spread to a thickness of 100 mm (4 in.) will cover an area of 5 square meter (54 sq.ft.).

One metric ton (2200 lbs.) of concrete sand spread to a thickness of 25 mm (1 in.) will cover an area of 20 square meters (215 sq. ft.).

Filling de joints between 60 mm (2½ in.) thick pavers will require 30 kg of concrete sand for every 10 square meters of paved surface (60 lbs. per 100 sq. ft.).

3

BLOCK INSTALLATION

3.1 The first row of block is buried. This row needs to be perfectly leveled. d'alignement le long du mur et prenez régulièrement le niveau des blocs dans les 2 sens.

3.2 Backfill the wall with clear 20 mm stone lightly packed down.

3.3 Place the Fortress block connector to the desired wall inclination. Overlap the joints of each row.

3.4 Keep mounting the wall repeating step 3.2 each 200 mm (8 in.).

3.5 Cut the end block with a guillotine.

3.6 Cover the clear stone with the excess geotextile membrane in order to avoid contamination of the drainage system with soil.

4

COPING INSTALLATION

4.1 Remove any dirt and dust for a better adherence. Use a concrete paver and wall adhesive. Make sure to glue the caps on a dry surface.

CAUTION

Retaining wall should not be installed over 36" in height. If you expect to build higher than this value, contact a qualified engineer for a structural and safe construction desing.



THE FIRST ROW OF BLOCK IS BURIED.
THIS ROW NEEDS TO BE PERFECTLY LEVELED.



THE FORTRESS BLOCK CONNECTOR
LETS YOU PLACE LOW WALLS IN STRAIGHT LINES,
CURVED LINES OR IN STAIRCASE FORMATIONS.

