Chevloc

Installation Guidelines

Preparation & Setting Out

Chevloc components are transported on timber pallets for ease of off loading and effective site distribution.

Chevloc walls are normally erected on a concrete strip foundation which should be designed at a frost free depth and with due regard to local ground condition and the height of the wall to be constructed. The purpose designed base unit should be bedded onto the concrete foundation with a 3:1 sand cement mortar to required lines and levels, after first checking the correct orientation of the base units according to the type of wall being constructed, i.e. inclined or vertical.

Unit Splitting

Chevloc wall units are supplied in pairs for onsite splitting, providing an attractive split stone face on vertical walls.

A deep "V" groove is provided around the centre of the double units to facilitate easy splitting, a 100mm brick layers' bolster and club hammer is all that is required. It is recommended that splitting be carried out by lightly scoring all around the unit at the base of the "V" groove in order to ensure an even and clean split.

Wall erection can now proceed rapidly according to site alignment and profile. It is advisable to apply a string line to each course to check correct alignment and during construction to use a batter board to check that the correct batter is being maintained.

Wall Construction

In a battered wall (6:1) the blocks are placed so that the thinner segments are all outward facing, i.e. split face outermost

In vertical walls every alternative course is reversed giving a banding effect of plain and split faced courses. It is recommended that the free draining backfill material be placed and compacted in two course increments, recommended backfill material being type "B" in accordance with the "Specification for Highway Works: Volume 1: 1991: Table 5/5".

Where required the Chevloc wall units may be spaced apart by up to 100mm to facilitate planting by infilling the gaps between the units with top soil. As the spacing of the units will have an effect on the overall wall design, this should be checked with the manufacturer against the known design criteria to ensure that the wall stability will not be compromised.

Coping Course

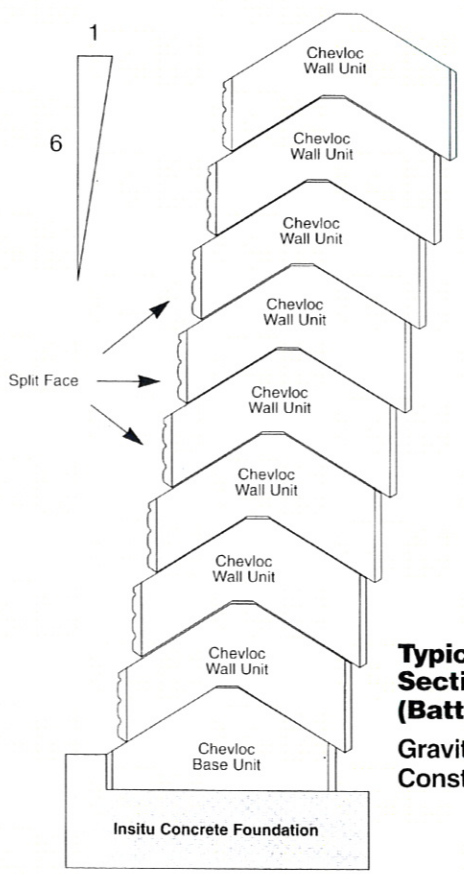
The top course of wall units are normally placed butt tight to provide continues coping.

To prevent accidental displacement or deliberate removal by vandals, it is recommended the top course of units be bonded to the course below by the application of four spots of Thixotrpic epoxy adhesive as Sikadur 31 or similar

Wall Ends

On straight walls with perpendicular end it is necessary to cit half length units from standard units in order to close the bond on every alternate course. This can be effectively achieved using a suitable abrasive wheel cutter to score around the unit to a depth of approximately 20mm. A brick Layers' bolster can then be used to complete the cut. It will only be necessary to cut all the way through the unit with the abrasive wheel if a smooth face is required but it is usually possible to position the cut face innermost into the wall.

Having completed the cut it is necessary to grind a small Chamfer detail along the front face of the cut in order to maintain the uniform picture framing effect.



Typical Section (Batter)

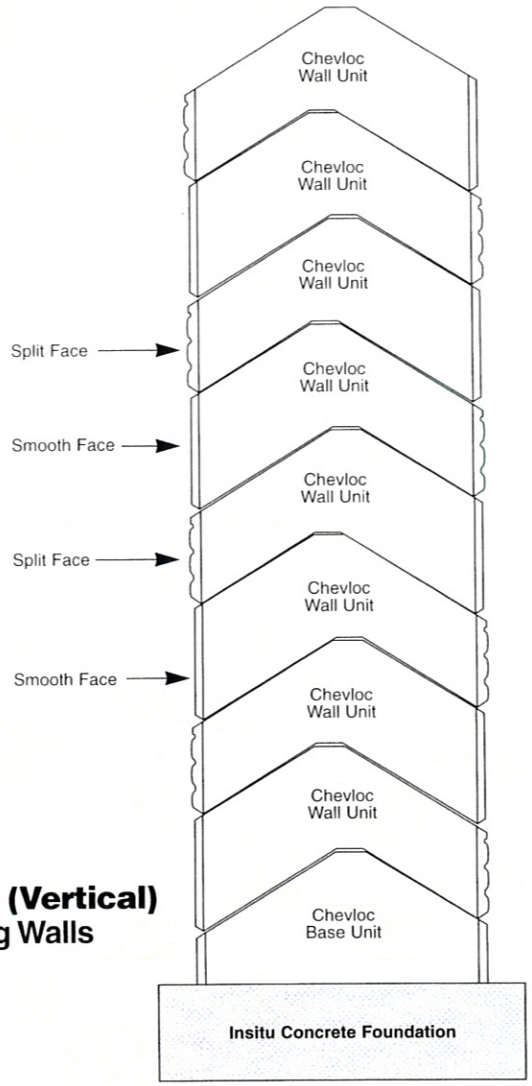
Gravity Wall Construction

Radius & Corner Construction

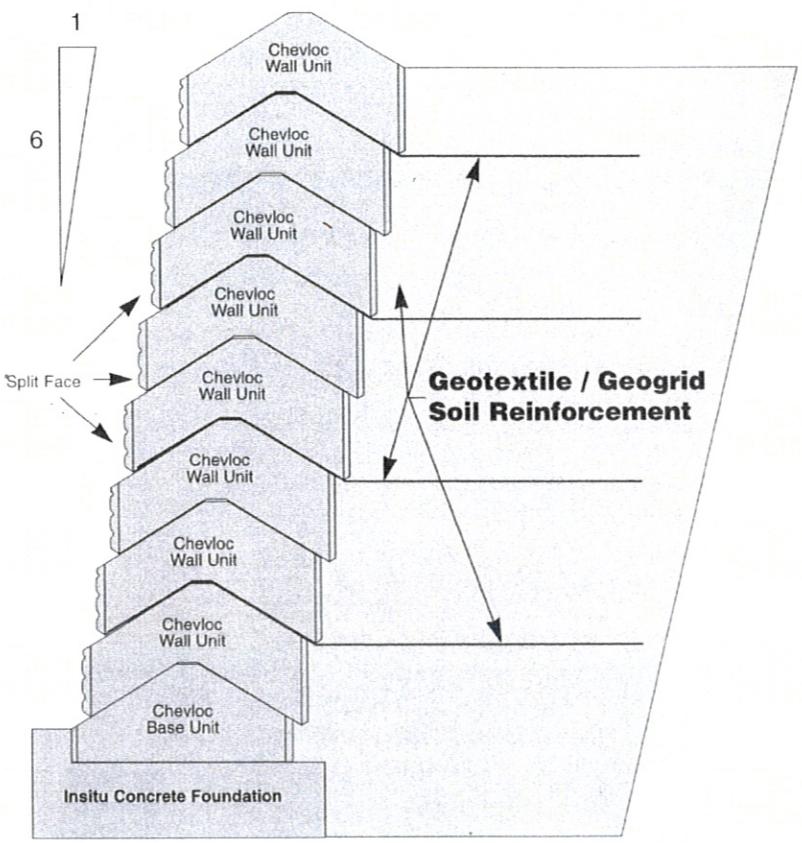
Chevloc walls can be constructed down to a minimum radius of five metres. Internal and external corners can be constructed either by cutting and mitring units at the corner intersection or by building one wall to align with the rear face of the right angle return.

Corner constructions can be reinforced by the inclusion of strips of high strength geotextile trapped between the block courses across the corner intersection. The company is pleased to provide details for corner and radius construction on a site specific basis.

N.B. It is most important to ensure that the wall is not subjected to any undue loading during construction stage which it is not designed to withstand



Typical Section (Vertical)
Free Standing Walls



Typical Section (Batter)
Reinforced Earth Construction

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