

Limited Flow Grout will travel no more than 300 - 400mm horizontally in a mass masonry wall that has been flushed and cleaned, when mixed with 440ml of clean potable water per 1 KG of Grout. Mix at high speed for not less than 1.5 minutes allow to stand for 10 minutes and re-mix for 1 minute before use.

Use where one side of a wall only is accessible or visible or for limited controlled grouting requirements. Less mix water will reduce the rate of flow. (Increase in water up to a maximum of 550ml will give up to 600-800 of horizontal – great care should be exercised when increasing water levels to improve flow distance as this may result in grout transportation by seepage into areas not intended for grouting) - water levels can be reduced to 400ml of water per 1 Kg provided that the rate of flow is verified in a Colcrete Channel, flow will generally drop below 300mm

MMFLFG Mineral dry bagged Limited flow grouting and injection mortar based on Hydraulic Lime binders and fine fraction fillers for injection via a range of needle sizes to 1.2mm ID. With a horizontal travel distance of not more than 450mm as measured in a Colcrete Channel

MMFLGr is especially suitable for filling voids or cracks either as a free flowing grout with excellent bond strength or as a pointing mortar where deep joints are best reached with a mastic gun or a proprietary mortar pump and can be used to consolidate cracks or very fine overhead joints to depth.

Natural hydraulic lime – cement free, mortars with additions, to allow easy placement and excellent bond development. Easy to mix and use. Maximum water dosage will produce a free flowing grout, lower water dosage a gun application injection mortar that will hang without slumping in joints of less than 5mm width.

Ambient and materials / surface temperature range to be within 5°C – 30°C – out with these ranges consult our technical department. Use control methods to maintain ambient conditions until mortar is sufficiently cured

For small quantities use hand held drill or cordless whisk type mixer. Mix dry powder into clean potable water gradually, Grout mix up to 480 Millilitres per 1 KG of Grout – if a limited flow grout is required. Larger volumes use a drill whisk and mix for not less than 3 minutes, set aside and allow to stand for 10 minutes and re-mix for 1 minute, use immediately.

water. Discard any excess grout.

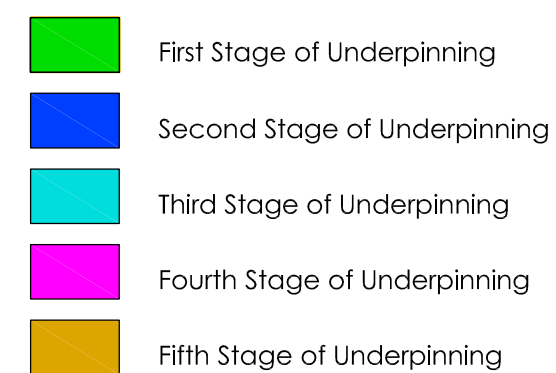
Wash down crack and remove any biological growth, ensure crack is flood filled with non-ionic flushing solution to remove any grease or soiling that may impair bond.

Place temporary pointing medium (Clay) or permanent pointing over or in the crack face or joints and any possible weeps discovered during cleaning and water flushing.

Use pre drilled access ports to facilitate placing of grout and for tell tails for very fine cracks.

Fill joints or cracks with grout plugging weeps as the grouting proceeds.

On completion of the grouting and after initial stiffening has been achieved (not less than 24 hours - (weather dependent) before removing temporary clay type medium to check the crack has been fully filled. If required it may be necessary to point joints or cracks in a suitable compatible lime mortar on completion if a matching mortar is required.



Underpinning Sequence
NB No excavation for underpinning to occur until seven days after grout treatment to wall in the immediate area has been completed.

During Excavation any loose individual stones are to be removed.



Construction Sequence
Propping to be Partially Removed Locally to as Work Proceeds to
Allow PC Wall Units to be Placed in Order Shown

Erection Sequence
1:250



Typical Work Stages

Mark Date	Details	Revision History	By
Drawing originator:			
			
Client:			
 CASTELL GROUP Property Development Specialists			
Project title:			
Factory Road Newport			
Drawing title:			
West Boundary retaining Wall Indicative Details and Construction Sequence			
Scale: As Indicated for the original size of A1			
Drawn by: JEC	Checked by:	Passed by:	Date: April 25
Drawing status:			
Preliminary			
Job No: CG110	Drawing No: Project: Origin: Volume: Level: Type: Details: Number: P01	Revision: P1	
Do not scale this drawing 6-7 Old Marsh Farm Barns, Wain Road, Sealand, Flintshire, CH5 2LY enquiries@betts-associates.co.uk Chester 01244 288178 Altrincham 0161 613353			