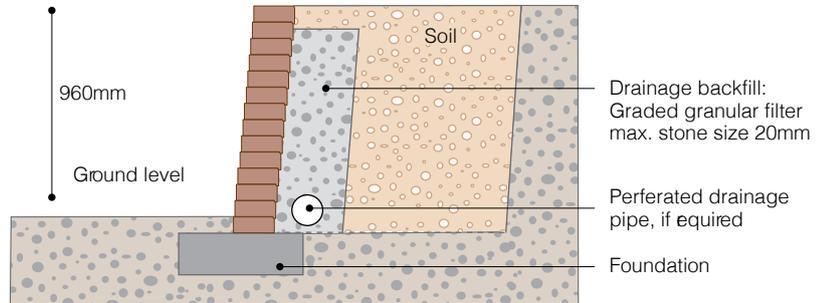


### Foundations and drainage pipe

- 1 Prepare the foundation, excavating any unsuitable material and replacing it with 100mm Type 1/CL804, clean compacted material. Please refer to the table below for typical foundation details. An engineers' site specific design should be followed at all times. *(Please refer to the table below for dimensions and recommended block courses below ground).*
- 2 Lay the drainage pipe if required at the back of the wall and cover with granular filter, maximum stone size 20mm.

A typical cross section.



product	max. gravity wall height	min. internal radius	max. external radius	typical trench width (mm)	typical trench depth (mm)	foundation material	typical foundation depth (mm)	block courses below ground
SECURA LITE	960mm	2m	2m	600	260	Type 1/CL804	100	2

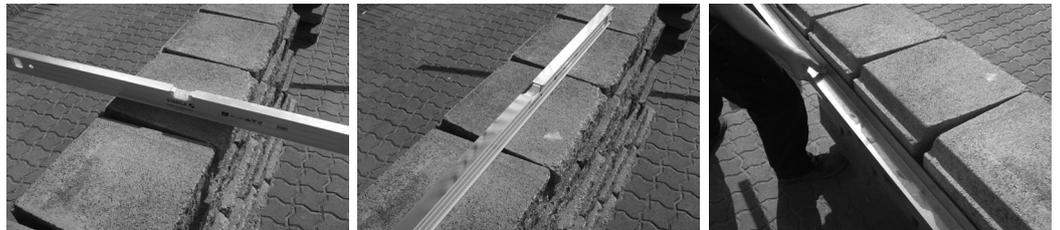
### Laying the blocks

- 1 Remove the nib from the base of the blocks to be used on the first course using a bolster and club hammer.
- 2 Using a spirit level, ensure your first row of blocks are level as this will dictate the general appearance of the finished wall.
- 3 Leave a gap of 2-3mm between the blocks to maintain perpendicular joint alignment and to allow for any movement of the ground.
- 4 Before laying subsequent layers, brush the top surface of the blocks to remove any debris which may affect the wall level.
- 5 Build the wall up at five courses at a time to the required height and backfill. Use a spirit level to ensure the blocks are level as you build each row.
- 6 Copings can be glued on using an appropriate concrete adhesive.

### Backfilling and drainage

- 1 Backfill the wall with graded granular filter, maximum stone size 20mm, to improve drainage. This should be 125mm wide and be finished 300mm below the top of the finished wall.
- 2 Please note the wall should be backfilled every four courses to avoid undue deformation of the wall.
- 3 Fill in remainder of area with clean soil.

**It is good practice to use a spirit level and straight edge frequently during the construction of the wall. This will help to ensure the wall is built correctly.**



#### Notes

- When the angle of the upper slope is greater than 30° the retaining wall height should be reduced or soil reinforcement introduced.
- A hammer and chisel or circular saw can be used to cut or split blocks. Eye protection should be worn at all times when using any of these tools.
- Always use a coping to cap the top of the wall.

# instructions & warnings

(as referred to in Tobermore's Conditions of Sale)

## Important Information

Any technical information provided by Tobermore in relation to any product (whether before or after order) is provided by way of GUIDANCE ONLY and, to the fullest extent permitted by law, without liability on the part of Tobermore for any loss or damage suffered as a result of relying upon it. Such technical information should not be relied upon in substitution for obtaining independent expert advice prior to using any product from both a suitably qualified engineer and building contractor, in particular, as to the suitability of the product for use at the intended site for the intended scheme.

## CORE TERMS (PAVING & WALLING)

### Product

All products should be carefully inspected for defects or damage upon delivery and prior to being laid or fitted.

### Product Information

Within Tobermore, design and development of products is a continuing process, and product information is subject to change without notice. Accordingly, please check with Tobermore to ensure that the product information you have represents the most up-to-date product information.

### Installation

All products should be installed in accordance with the latest British Standard.

### Colour

Tobermore produces paving and walling products with excellent density and durability, however, as with all concrete products, slight colour variations are inevitable. Although every effort is made to ensure consistency of product colour, variations can occur. In particular, single colours such as Golden, Buff, Natural and Red will have variations. Tobermore therefore recommends that products are thoroughly mixed on site by drawing from a minimum of four pallets.

We would always recommend that when purchasing products, especially in larger quantities, that they are all ordered and manufactured in one batch to reduce the chances of getting colour variation.

Please note that the colour of new products will inevitably vary compared to those which have been installed for a period of time as weathering does take place.

All colour illustrations in Tobermore's brochures are as accurate as the printing process will allow. For a more accurate colour match please refer to actual product samples, which can be provided.

### Efflorescence

Efflorescence is a white crystalline deposit that occurs naturally on the surface of concrete materials. Tobermore use market leading technology to significantly suppress the occurrence of efflorescence, however, if it occurs, it may mask the colour of the product for a period of time, but tends to be washed away gradually by rain. Tobermore do not replace products with efflorescence. Packs of products which have had packaging removed should always be re-covered with appropriate packaging to prevent the occurrence of secondary efflorescence.

### Surface Scratches

Minor scuffs or bruises may occur during delivery, movement onsite, and installation (for example, during any plate vibrating process). In Tobermore's experience, these marks usually weather off through time.

### Ordering

To avoid waste, please ensure that your contractor accurately measures the area on site before ordering products. In Tobermore's experience, dimensions taken from a project plan can vary significantly from the final layout.

### Manufacturing & Quality Systems

Tobermore is a BS EN ISO 9001, BS EN ISO 14001 and BES 6001 registered company. Tobermore uses an integrated management system to manage all health & safety and environmental issues.

## Product Maintenance

Routine cleaning and maintenance is required to keep the overall appearance of products in pristine condition.

### Laying multi-blend coloured paving blocks, flags and walling products

To achieve an even blend of colour when laying multi-blend paving blocks, flags and walling products, it is desirable to mix from three or four different pallets.

### Queries & Complaints

Please contact one of Tobermore's Paving & Walling Centres or offices (contact details at [www.tobermore.co.uk](http://www.tobermore.co.uk)) with any queries or complaints. Any complaints must be notified to Tobermore without delay.

## FOR SECURA PRODUCTS

### Installation - Secura

All Secura products should be installed in accordance with British Standard BS8002. When constructing a retaining wall, ensure that you follow the design provided by the scheme engineer.

