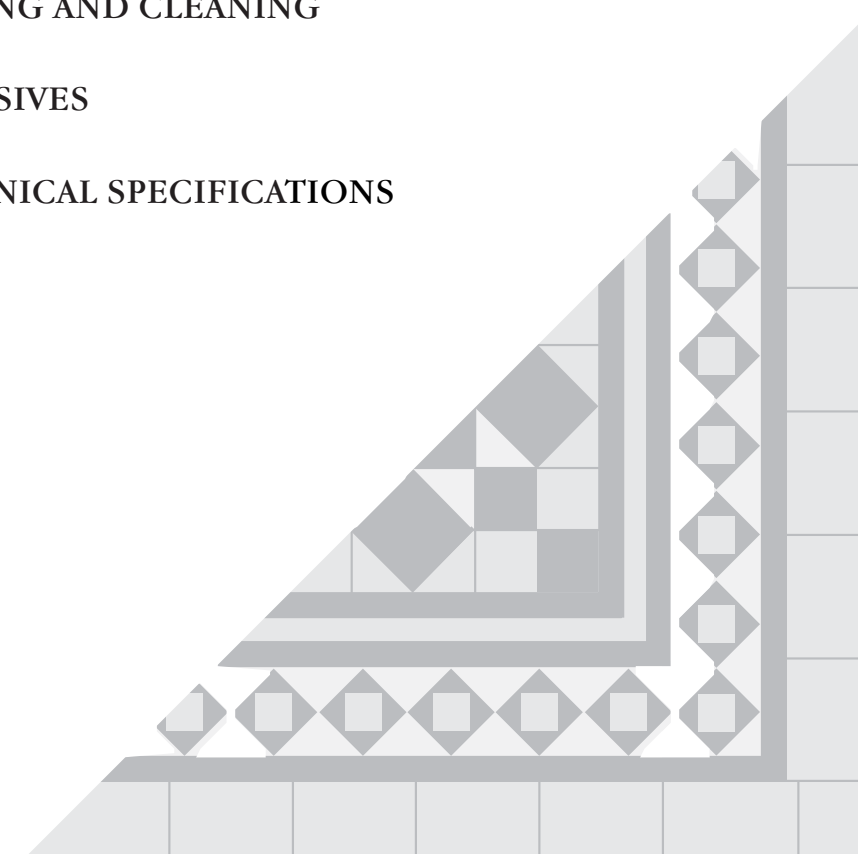


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Victorian Floor Tiles



Installation and Maintenance Guide

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 - u INSTALLATION
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PLANNING

The key to achieving a Victorian geometric tiled floor that will give pleasure for decades to come is careful advance planning. The following brief guidelines apply to a typical rectangular floor tiled with both a central pattern and a surrounding border.

1. Measure the dimensions of the area to be tiled.
2. Work out the width of the proposed border design, remembering to allow 2mm for each joint.
3. Calculate the length and width of the area available for the central pattern by subtracting twice the border width from each dimension of the overall area.
4. Decide the dimensions of your chosen pattern that will fit into the area calculated in (3) above to give a satisfying, symmetrical finish. This will not necessarily be a whole number of pattern repeats and will usually involve cut tiles along the edges (see Fig 1 a & b).
5. The pattern decided on in (4) with the border laid around it will cover slightly less than the total floor area. Furthermore, there will be irregularities, such as doorways, along the perimeter of the room. Order a supply of 151mm square and/or 151 x 75mm rectangular tiles in an appropriate colour, which can be cut to fill the remaining space (see Fig 2).
6. **Alternatively**, if the standard border design that you are using has 151 x 24mm rectangles along the outer edge, replace these with 151 x 75mm rectangles which can be cut to fit. You can then make a feature of doorways with a geometric pattern of your choice.
7. Always order a few spare tiles of each size and colour used in your layout to allow for damage in cutting and to avoid delays caused by having to re-order small quantities of tiles at short notice.

Fig 1a

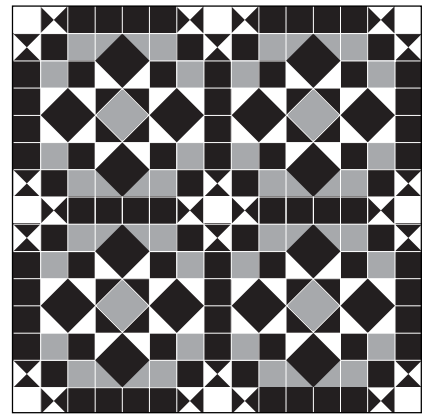


Fig 1b

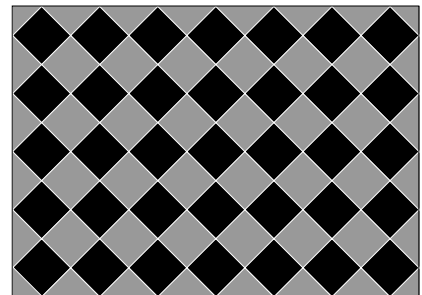
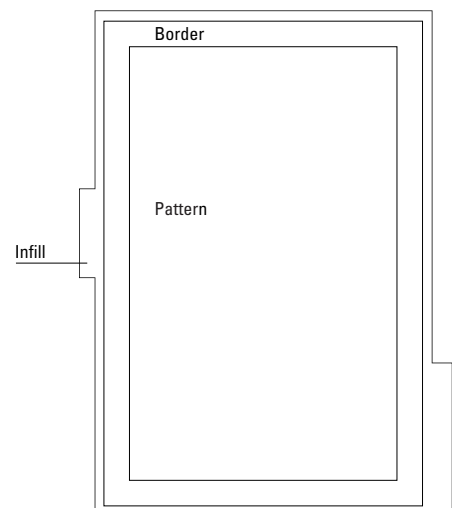


Fig 2



CAD USERS

To help interior designers and architects who work with Computer Aided Design systems plan geometric tiled floors, Original Style offer a free CAD database. This is supplied on floppy disk and can be obtained from Original Style at the address on the back page of this leaflet.

◆ INSTALLATION

The following step-by-step guide is designed to explain the particular requirements of Victorian geometric tiles. It is not a comprehensive manual for floor tile laying. Tilers should familiarise themselves with their appropriate national standards before starting (eg BS 5385 Part 3 in the United Kingdom or ANSIA108 in the USA).

CAUTION

Because Original Style tiles are made of natural clays, some shade variation may occur between one tile and another of the same colour. It is therefore important to ensure that such shade differences are evenly distributed before installing the tiles.



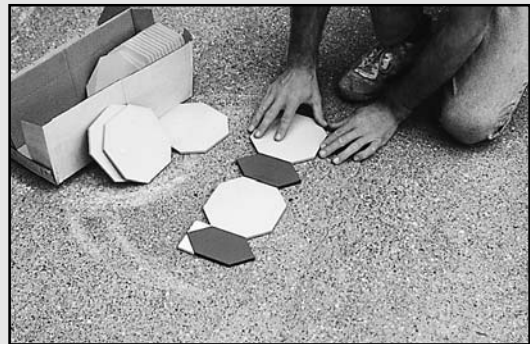
- 1** Check that the floor is level and that it has a dust and grease free surface. (Wooden floors should be made as stable as possible with sheets of 18mm exterior-grade plywood screwed down at 300mm/12-inch centres.)



- 2** Accurately measure the floor, including the dimensions of irregular features, such as doorways.



- 3** Determine the exact centre of the floor and draw central grid lines in both directions with a chalk line.



- 4** Without adhesive, lay a row of tiles along each grid line (width and length), leaving 2mm between each tile and wider movement joints where necessary (see national standards). Adjust the tiles until you have achieved the symmetrical layout that you want (see Fig 1 in previous section).



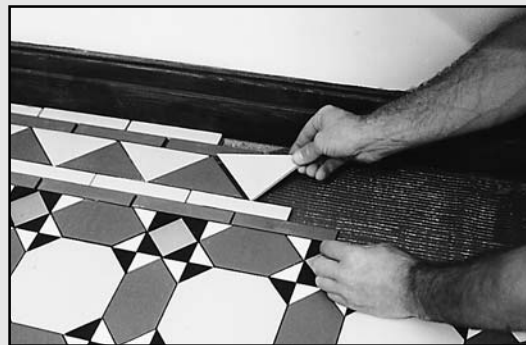
5 Use a serrated-edge trowel to lay an even, solid bed of adhesive (3-6mm thick). Use the adhesive recommended by a reputable adhesive manufacturer for your particular conditions (floor surface, interior/exterior etc).
IMPORTANT: Do not lay tiles directly into a bed of wet sand and cement, as this may give rise to efflorescence (“bloom”) on the surface of the tiles.



6 If the pattern allows, lay the larger tiles first with 2mm spacers between them. In patterns such as Pomeroy, Oxford and Dorchester (see Original Style brochure), which use tiles of the same shape and size in different colours, there may be a size variation which will have to be allowed for with extra spacing. This variation is an inevitable result of the clay firing process and is within the tolerance permitted by British Standard 6431.



7 Place the smaller tiles in position, leaving even spaces between them and the larger tiles.



8 Lay the border tiles. The most professional result can usually be achieved by starting at the corners and working towards the centre. In borders with small tiles, cutting can usually be avoided altogether by slight adjustments to the spacing. With larger border designs, make your cut at the centre point of each length of border (i.e. half-way between 2 corners) for a neat, symmetrical finish.



9 Where borders follow irregular perimeters with several inside and outside corners, mitring, as shown in this photograph, may be inevitable. Original Style tiles are hard, but can be neatly cut with a heavy-duty, professional “score and break” tile cutter.

10 Apply an unstained grey cement-based grout (with a flexible admix on wooden floors). **Do not use coloured grouts, as these may stain the tiles.**

SEALING AND CLEANING

Regular, correct use of the right sealing and cleaning materials will keep Victorian tiled floors looking their best. Original Style recommends **Hagesan HG** or **Lithofin** tile care products which are available in most parts of the world. If you have difficulty finding them, please contact Original Style for details of your nearest HG or Lithofin distributor.

The following is a brief summary of the appropriate HG and Lithofin products for different circumstances. It is not a comprehensive guide to the use of these products. Always follow the manufacturer's instructions very carefully. For specific advice relating to a particular installation, please contact Original Style or your HG or Lithofin distributor.

	Normal domestic installations	Kitchens and floors with mainly white, blue, green or grey tiles	Commercial interior installations	Exterior installations	Notes
Cleaning off grout or cement residue	HG EXTRA	HG EXTRA	HG EXTRA	HG EXTRA	The floor must be completely clean, dry and free of grout residue before it is sealed.
	LITHOFIN CEMENTAWAY	LITHOFIN CEMENTAWAY	LITHOFIN CEMENTAWAY	LITHOFIN CEMENTAWAY	The floor must be completely clean, dry and free of grout residue before it is sealed.
Sealing the body of the tiles	not applicable	HG IMPREGNATOR <i>Important: HG IMPREGNATOR must be used with great care on Original Style floor tiles (see note right)</i>	HG IMPREGNATOR	HG IMPREGNATOR	HG IMPREGNATOR must be fully absorbed into the tile body, leaving no residue on the surface. It may be necessary to dilute it up to 25% with white spirit to achieve this with the (less porous) red, buff, black and brown tiles. It leaves a mat finish.
	LITHOFIN KF STAINSTOP	LITHOFIN KF STAINSTOP	LITHOFIN KF STAINSTOP	LITHOFIN KF STAINSTOP	LITHOFIN KF STAINSTOP must be fully absorbed into the tile body, leaving no residue on the surface. In order to obtain optimum stain resistance it is necessary for the tiles (all colours, as some are more porous than others) to be fully saturated so that no more material will go in. Mat finish obtained with minimal discoloration.
Surface protection	HG GOLVPOLISH	HG GOLVPOLISH (optional)	HG GOLVPOLISH (optional)	not applicable	HG GOLVPOLISH can be used on its own or as a surface finish to tiles sealed with HG IMPREGNATOR. In this case it is essential that no trace of impregnator remains on the surface of the tiles. HG GOLVPOLISH dries to a sheen.
	LITHOFIN TILE POLISH	not applicable (unless a shine or polished finish is required)			LITHOFIN TILE POLISH is merely an aesthetic sheen producing product to enhance the overall surface shine. It is not classified as a stain resistant sealant.
Regular cleaning (weekly)	HG SUPERFLOOR	HG QUICK or HG SUPERFLOOR (see notes right)	HG QUICK or HG SUPERFLOOR (see notes right)	not applicable	Use HG QUICK to clean tiles sealed only with HG IMPREGNATOR; use HG SUPERFLOOR on surfaces coated with HG GOLVPOLISH.
	LITHOFIN EASY-CARE	LITHOFIN EASY-CARE	LITHOFIN EASY-CARE	LITHOFIN ALGEX	LITHOFIN EASY-CARE is more than satisfactory to maintain the tiles in virtually all conditions. Use LITHOFIN ALGEX in exterior locations once or twice per year.
Deep cleaning (annually or as necessary)	HG REMOVER	HG QUICK or HG REMOVER (see notes right)	HG QUICK or HG REMOVER (see notes right)	HG PATIO CLEANER	Use HG QUICK to deep-clean tiles sealed only with HG IMPREGNATOR; use the HG REMOVER on surfaces coated with HG GOLVPOLISH. HG REMOVER strips off the HG GOLVPOLISH which will need to be re-applied after cleaning.
	LITHOFIN VICTORIAN TILE RESTORER	LITHOFIN VICTORIAN TILE RESTORER	LITHOFIN VICTORIAN TILE RESTORER	LITHOFIN ALGEX	LITHOFIN VICTORIAN TILE RESTORER is an excellent deep cleaning agent for occasional use in high traffic areas. LITHOFIN ALGEX is a preventative treatment for all external growth of moss, algae and lichen.
Oil stain removal	LITHOFIN STAINAWAY	LITHOFIN STAINAWAY	LITHOFIN STAINAWAY	LITHOFIN STAINAWAY	LITHOFIN STAINAWAY may be used to remove any impregnated oil or grease stains, in both existing or new build tiles not yet sealed with LITHOFIN KF STAINSTOP.

Grey background indicates HG HAGESAN products.



ADHESIVES

Selection of the correct adhesive and grout is crucial to a successful, trouble-free tile installation. Detailed adhesive selection guides are published by the major adhesive manufacturers, including:

Building Adhesives Ltd (BAL)

Longton Road
Trenttham
Stoke-on-Trent
ST4 8JB
Telephone 01782 591100

Ardex (UK) Ltd

Homefield Road
Haverhill
Suffolk
CB9 8QP
Telephone 01440 714939



TECHNICAL SPECIFICATIONS

Complying with	BS6431: 1984 Group B2A
Description	unglazed, vitrified, dust-pressed ceramic tiles
Thickness	9mm (approx 3/8") Step Tread tile only is 12mm (approx 1/2")
Abrasion resistance	maximum 147mm ³ ; PEI Class 4
Water absorption	not more than 6%
Frost resistance*	no damage after 50 freeze/thaw cycles
Variation in facial dimensions	±0.75% to ±1.2% from nominal length, depending on tile size

Slip resistance (coefficient of friction)†	Dry	Wet
soft rubber	1.87	0.91
leather	0.82	0.76
hard rubber	0.86	0.75

* Original Style Victorian Floor Tiles are suitable for outdoor use and are frost resistant, provided that they are laid in such a way that rainwater drains freely and completely off them and cannot penetrate beneath and between them. Tiles should not be laid on flat, asphalt covered roofs in areas subject to frost.

Seal white, blue, green and grey tiles with HG Impregnator to increase their water-repellence.

† Figures based on 151 x 151mm tiles. A coefficient of friction of 0.75 or above is described as "very good".

Original Style accepts no liability for the faulty installation of its tiles. In the case of any claim relating to the tiles themselves, Original Style's liability is limited to the purchase price of the product and does not extend to consequential loss.

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