

INSTALLATION:

INSTALLATION, GENERAL:

Installer verification:

All Polyflor materials should be installed by a competent professional flooring mechanic, using known and accepted procedures and Polyflor approved adhesives. The installer must be preferably one who has attended an installation clinic or a Master Mechanic Training Seminar.

IMPORTANT: It is important that the correct Polyflor product is selected to meet the specification required. For information and advice on all issues concerning static control flooring, installation techniques and testing procedures, please contact Gerbert's trained technical staff, who will be pleased to assist you.

Field verification:

Isolation of sub-floor:

The electrical conductivity of a solid sub-floor can vary greatly and as a result the installed floor may have resistances lower than the minimum stated in the specification. Cementitious underlayments provide an isolating barrier of known resistance beneath the vinyl floor covering.

Polyflor recommends that all solid sub floors should be covered with a cementitious underlayment which must be at least 3mm (1/8") thick. The choice of underlayment is dependent upon the end use location and consideration should be given to such properties as point load resistance and protein content. The underlayment should be allowed to dry prior to the application of the floor covering.

Polyflor accepts no responsibility for non-conformance due to the resistance of the installed floor being below the minimum specified, if an isolating barrier has not been used.

NOTE: Suspended wood sub floors are not conductive and do not require an isolating barrier.

Field verify, prior to installation, exact layout dimensions of all seams, floor patterns, grain directions and insets with Architect. Start of work without Architect approval of field verification is not permitted and unauthorized installations shall be replaced at Contractors expense.

Where moveable partitions are shown, install resilient flooring before partitions are erected.

Wooden Sub-Floor: Ensure wooden sub-floor is ventilated and required damp proofing is in place. Fix and replace loose boards.

Install conductive flooring using method indicated in strict compliance with manufacturer's printed instructions. Extend flooring into toe spaces, door reveals and into closets and similar openings.

Scribe, cut and fit resilient flooring to permanent fixtures built in furniture and cabinets, pipes, outlets and permanent columns, walls and partitions.

Maintain reference markers, holes or openings that are in place or plainly marked for future cutting by repeating on finish flooring as marked on subfloor. Use chalk or other non-permanent marking device.

Install conductive flooring on covers for telephone and electrical ducts, and other such items as occur within finished floor areas. Maintain overall continuity of color and pattern with pieces of flooring installed on these covers. Tightly cement edges to perimeter of floor around covers and to covers.

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Tightly adhere conductive flooring to substrate without open cracks, voids, raising and puckering at joints, telegraphing of adhesive spreader marks or other surface imperfections. Hand roll flooring at perimeter of each covered area to assure adhesion.

RESILIENT FLOORING

09650 - 5

ADHESIVES:

Polyflor recommends the use of conductive adhesive for all Conductive Floor coverings. Please contact Gerbert Ltd for recommended manufacturers approved by Polyflor.

NOTE: Access panels vary from manufacturer to manufacturer both in design and materials used. We recommend in these instances that you discuss your individual requirements and application with our Technical Advisory Department.

CONDUCTANCE TO EARTH:

Installing an earthing system is a prerequisite of all floors if the specification stipulates a resistance to earth requirement. It is mandatory for all “conductive” floor installations.

It is beneficial to install an earthing system for all Polyflor Static Control floor coverings. Primarily, this gives the end user the option to test to earth should there be a requirement at a later stage. Secondly, it improves the conductance of the installed floor.

The choice of material used for the earthing system can be brass, copper or stainless steel and should be nominally 50mm (2”) wide and 0.1mm (.004”). However, the width is only important for the “Conductive” floor covering.

When an earthing system is installed, Polyflor recommends the use of at least two connections to earth, the second as a security back-up should the first be disconnected or damaged. Connection of the earthing system to the building earth is normally carried out by a qualified electrician and not the flooring contractor.

POLYFLOR ANTISTATIC FLOORCOVERINGS

If conductance to earth is specified the earth strip is laid 150mm (6”) from one side of the room, in the same direction as the vinyl sheets are to be laid. This strip is connected to a known earth.

A second strip is laid at 90° to the first, 150mm (6”) from the edge and running across the full width of the room. Further strips are laid at 20 meter (66’) intervals as determined by the size of the room.

INSTALLATION OF STATIC CONTROL VINYL TILE:

Static Control vinyl tiles are installed by the same methods as standard vinyl tiles – the single stick method.

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NOTE: Static control vinyl tiles must always be heat welded. Conductive welding rod is not required with Polyflor Static Control flooring.

Lay tile from center marks established with principal walls, discounting minor offsets, so that tiles at opposite edges of room are of equal width. Adjust as necessary to avoid use of cut widths less than 1/2 tile at room perimeters. Lay tile square to room axis, unless otherwise shown.

Match tiles for color and pattern by using tile from cartons in same sequence as manufactured and packaged if so numbered. Cut tile neatly around all fixtures. Broken, cracked, chipped or deformed tiles are not acceptable.

Lay tile with grain running in one direction unless shown or directed otherwise. Verify grain directions with Architect prior to installation.

Adhere tile flooring to substrates using full spread of conductive adhesive applied in compliance with flooring manufacturer's directions.

RESILIENT FLOORING

09650 - 6

INSTALLATION OF STATIC CONTROL SHEET FLOORING:

Static control vinyl sheet should be installed by the double drop method. This is because the adhesive contains carbon, which results in low tack.

Once the adhesive has been spread, the vinyl sheet is laid into it and pressed all over to ensure an even transfer of adhesive. The vinyl sheet is then folded back and left until the adhesive becomes tacky. When the adhesive is tacky, the vinyl sheet should be accurately re-laid, ensuring it does not twist or trap air bubbles. Seams must be without gaps and any excess adhesive should be removed as work proceeds. The vinyl sheet is then rolled with a 110 Lb. floor roller in the short direction first, then the long, and the rolling repeated between one and four hours later.

Pipes or metal projections e.g. metal gullies, door spring plates, etc. must be insulated from the Static Conductive floor covering and free from conductive adhesive. The following method of installation is recommended: The Static Conductive Floor covering should be cut 50mm (2") short of any pipe or metal fixture. This infill area should be laid with a suitably colored standard Polyflor material adhered with a non-conductive adhesive. This infill piece should then be welded to the Static Conductive floor covering with a standard weld rod.

With this type of flooring, an earthing grid of the correct size strip is essential. 50mm x 0.1mm (2" x .004"). The strip is laid 1500mm (6") from one side of the room and is connected to a known earth. A second strip is laid at 90° to the first strip, across the full width of the room, and 150mm (6") from the edge of the room. Further strips are laid parallel to the second strip at intervals of 300mm (12") to cover the whole floor.

It is recommended that as a permanent record a brass plate is countersunk into the floor in a suitable position. The plate should be engraved as follows:

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Laid by:**

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119 South Tree Dr. - P.O. Box 4944 - Lancaster, PA 17604-4944
Tel: (717) 299-5035 or (800) 828-9461 - Fax: (717) 394-1937
E-mail: gerbertinfo@gerbertltd.com

Date:

NOTE: Polyflor Conductive does not provide protection from a short circuit on a 240/250 volt mains. Where this material is installed all electrical equipment and switches must be located outside the building. No portable electrical tools should be used inside, unless earth leakage circuit breakers are fitted to the switch gear.

Terminate flooring at centerline of door openings where adjacent floor finish is dissimilar.

Install edge strips at unprotected or exposed edges where flooring terminates.

Scribe flooring to walls, columns, cabinets, floor outlets and other apparatus to produce tight joints.

Install flooring under movable partitions under open cabinets without interrupting tile/sheet pattern.

Roll flooring using a 100 Lb. Roller.

Lay sheet flooring to provide as few seams as possible with economical use of materials. Match edges for color shading and pattern at seams in compliance with manufacturer's recommendations.

Adhere sheet flooring to substrates using method approved by flooring manufacturer for type of sheet flooring and substrate condition indicated.

Use conventional full spread adhesive method unless otherwise indicated.

Prepare seams in vinyl sheet flooring with manufacturer's special routing tool and heat weld with vinyl thread in accordance with manufacturer's instructions.

All Polyflor Static Control floor covering installations (excluding access panels) must be heat welded. Ideally the floor should be left for a minimum of 24 hours before welding the joints. This will prevent adhesive bubbling up into the seams when heat is applied.

NOTE: Conductive welding rod is not required with Polyflor Static Control flooring.

RESILIENT FLOORING

09650 - 7

Provide integral flash cove base where shown on Room Finish Schedule or drawings, including cove support strip and metal top edge strip, Construction coved base in accordance with manufacturer's instructions.

On masonry surfaces or other similar irregular vertical substrates, fill voids between metal top edge strip cove cap and vertical surface with manufacturer's recommended adhesive filler material.

On all floor penetrations, cutouts and edge conditions, such as door frames, fill voids between sheet flooring and other surfaces with sealant recommended by sheet flooring manufacturer.

Transition section at paving junction: Visedge VR by Howie Green is designed to securely anchor the perimeter of vinyl sheet flooring to prevent the ingress of water at the interface with the screed and to protect the ceramic floor edge profile.

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Failure to install and maintain Polyflor products in accordance with recommended procedures can affect the performance of the products. Information and installation booklets are available from your Distributor.

TEST METHODS

Worldwide, there are a great many test methods for electrical grade floor coverings and with rapid developments in the electrical and electronic industries, standards are constantly being reviewed. To ensure that the floor is tested to the latest specification, it is suggested that the architect or specifier should obtain a copy of the test methods and requirements from ASTM (American Standards of Testing and Materials) and should attach it to the specification prior to installation of the floor.

STATIC CONTROL SYSTEMS:

In many instances, a Polyflor Static Control floor covering is sufficient to give the necessary control, but in highly static-sensitive areas, additional precautions may be necessary. These include:

- Antistatic clothing and footwear
- Earth connecting straps
- Special work stations
- Antistatic packaging and sealing
- Ionizers and humidity controllers.

INSTALLATION OF ACCESSORIES:

Apply wall base to walls, columns, pilasters, casework and other permanent fixtures in rooms or areas where base is required. Install base in lengths as long as practicable, with preformed corner units. Tightly bond base to substrate throughout length of each piece, with continuous contact at horizontal and vertical surfaces.

On masonry surfaces, or other similar irregular substrates, fill voids along top edge of resilient wall base with manufacturer's recommended adhesive filler material.

Place resilient edge strips tightly butted to flooring and secure with adhesive. Install edging strips at edges of flooring which would otherwise be exposed. Apply resilient accessories to stairs in strict accordance with manufacturer's installation instructions.

CLEANING AND PROTECTION:

Perform following operations immediately upon completion of resilient flooring:

Sweep or vacuum floor thoroughly. No special maintenance is required. Use an impregnated dust control instrument.

Do not wash floor until time period recommended by resilient flooring manufacturer has elapsed to allow resilient flooring to become well adhered in adhesive.

Damp mop floor being careful to remove black marks and excessive soil.

RESILIENT FLOORING

09650 - 8

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Remove any excess adhesive or other surface blemishes, using appropriate cleaner recommended by flooring manufacturers.

Protect flooring against damage during construction period to comply with resilient flooring manufacturer's directions.

Protect flooring against damage from rolling loads for initial period following installation by covering with plywood or hardboard. Use dollies to move stationary equipment or furnishings across floors.

Cover resilient flooring with undyed, untreated building paper until inspection for Substantial Completion.

Clean resilient flooring not more than four days prior to date scheduled for inspections intended to establish date of Substantial Completion in each area of project. Clean resilient flooring by method recommended by resilient flooring manufacturer.

EXTRA MATERIALS:

Furnish extra maintenance materials to Owner. Furnish extra materials from same manufactured lot as materials installed. Deliver to Owner enclosed in protective packaging with appropriate identifying labels.

Tile Flooring: Furnish not less than one box for 50 boxes or fraction thereof, for each type, color, pattern and size installed.

Sheet Flooring: Furnish not less than five linear yards for each type, color and pattern installed.

Resilient Accessories: Furnish not less than ten linear feet for each 500 linear feet or fraction thereof, of each type, size, color and pattern installed.

END OF SECTION 09650

THIS SPECIFICATION GUIDE ISSUED IN JANUARY 2003 SUPERSEDES ALL PREVIOUS POLYFLOR SPECIFICATION GUIDES.

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