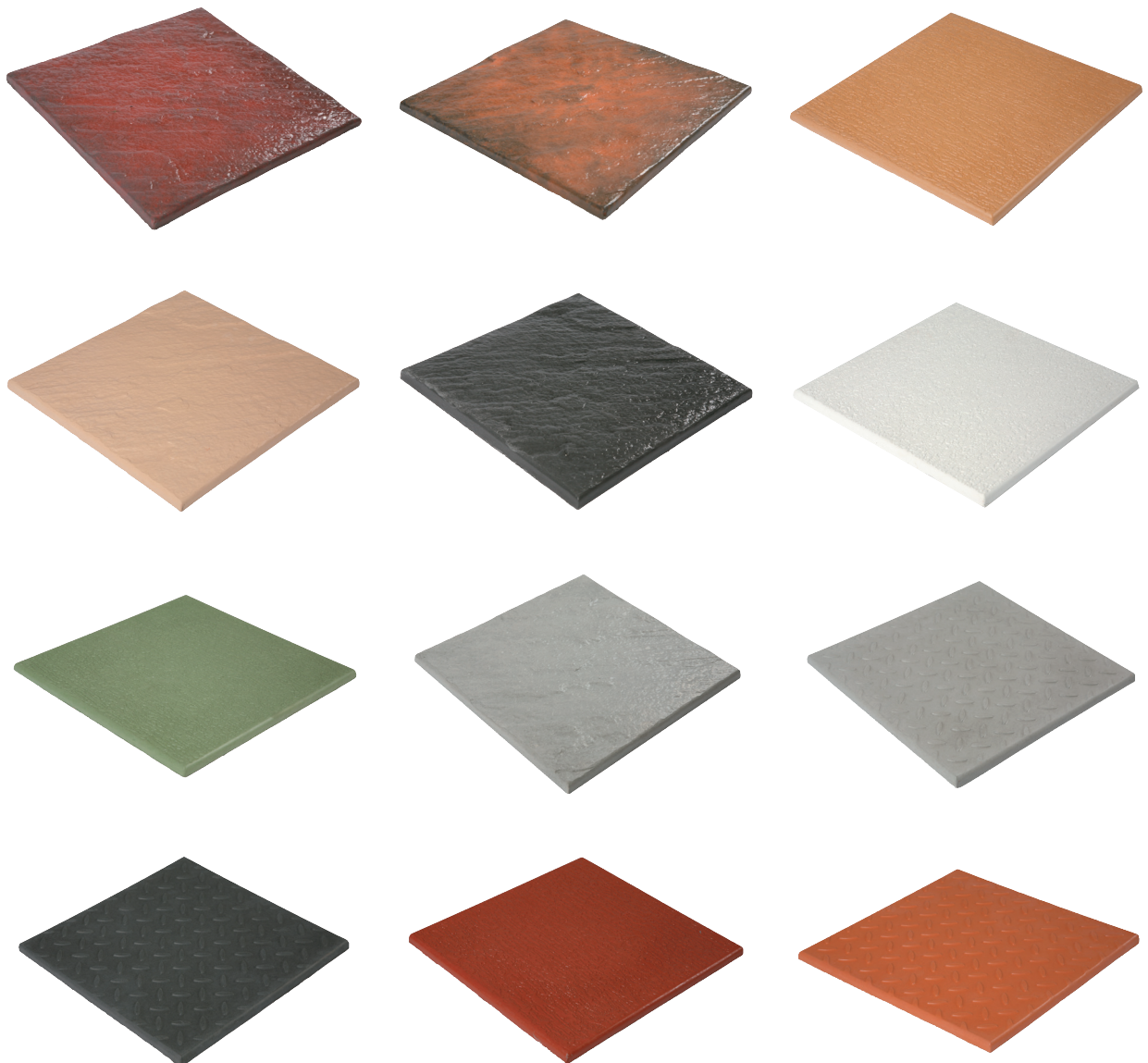




eurodec

Promenade Tiles



Product Guide

Designs

Checkerplate:

A timeless classic, both functional and utilitarian it delivers where a practical, anti-slip surface is sought. Uniquely our bevelled edge detail allows a continuous pattern to be achieved enhancing the overall effect.

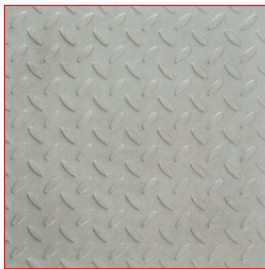
Striated:

This pattern exhibits natural contours to provide an organic appearance. Subsequently it has proved popular with those seeking a visually attractive finish coupled with a high degree of slip resistance.

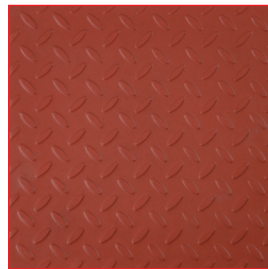
Regency:

The latest addition to the range. Our unparalleled attention to detail and commitment to quality has resulted in a riven finish so defined it is indistinguishable from natural stone. Available in an unrivalled choice of colours it provides a solution where aesthetic excellence is required as well as the strength and durability offered by GRC.

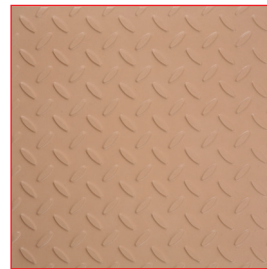
The colours displayed below are available in all Checkerplate, Striated and Regency patterns.



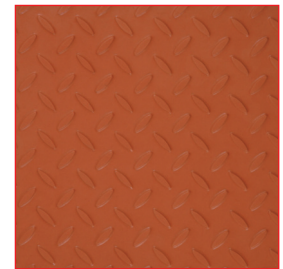
Grey Checkerplate



Red Checkerplate



Champagne Checkerplate



Terracotta Checkerplate



White Striated



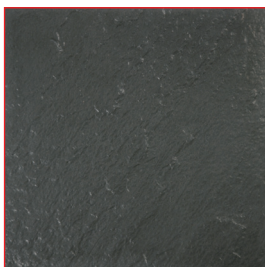
Buff Striated



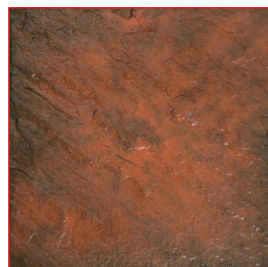
Green Striated



Charcoal Striated



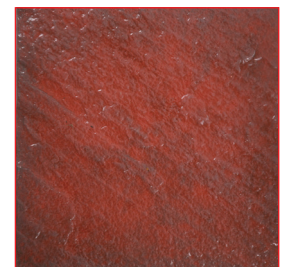
Cornish Slate Regency



Aged Terracotta Regency



Purbeck Stone Regency



Aged Quantock Red Regency

Use

Eurodec Promenade Tiles are primarily designed to offer an aseptically attractive, hardwearing, lightweight, anti-slip pedestrian surface for roofing substrates. However the tiles have become increasingly popular for a multitude of applications for both new build, refurbished, commercial and domestic properties including:

*Walkways / Roof Gardens / Recreational Areas / Balconies / Spectator Galleries / Courtyards / Maintenance Accesses / Patios / Pathways
Conservatories / Swimming Pools / Kitchen & Utility Rooms / Garages*

Composition

Manufactured from a blend of High Strength Portland Cement, Silica Sand, admixtures, finest quality pigments (where applicable), alkali-resistant Glass Fibre for tensile strength and processed granular Mendip Limestone to improve wear. **The formulation includes Metakaolin, a pozzalanic material. The benefits include increased strength, better surface definition and density, resistance to chemical and acids attack and importantly it dramatically reduces the possibility of efflorescence from occurring.**

Dimensions and Weights

Striated and Checkerplate	Nominal Size 297 x297 x 12mm	Weight of each tile 2.2kg approx	Coverage 11 tiles per square metre
Regency	Nominal Size 297 x297 x 15mm	Weight of each tile 3kg approx	Coverage 11 tiles per square metre

Performance

The tiles have been extensively evaluated and exhibit excellent tensile and impact strength. Freeze-thaw tests show the tiles to be unaffected by climatic extremes normally experienced in the UK. In addition they are solar reflective providing UV degradation and thermal stress protection. Classified as non-combustible and designated Class 0 for building regulations.

Storage

Packed ex-works onto wooden non-returnable pallets of 500 with foam sheet cushioning and shrink wrapped for maximum protection. Pallets should not be stacked more than 2 high on a level base, avoid point loading. It is essential the pallets are stored in dry conditions at all times to prevent water ingress. **Failure to comply with this may result in staining, discolouration and efflorescence.**

Appearance

With the exception of grey tiles finest quality iron, chrome and titanium oxides are incorporated at optimum levels to achieve an attractive range of colours. Tiles are resistant to fade by UV light under normal climatic conditions. Due to the inclusion of naturally occurring minerals and the possibility of differential drying colours and shade variations may occur between batches. The true aesthetic of the tile may not be revealed until exposure to sunlight and weathering have taken place. Whilst every effort has been made to combat surface efflorescence; high levels of cement are required for strength, the addition of a lime reacting agent (Metakaolin) should minimise the risk as far as is possible. In the event of staining or discolouration toughness, performance and all other characteristics will not be affected.

Laying

Site Preparation

The substrate should be cleaned and properly prepared to receive tiles; debris, loose material and standing water must be removed prior to work commencing. The roof should be laid to a minimum fall of 1:80 but not exceeding 1:40. Any unevenness or defects in the roof must be made good to ensure a level surface on which to tile. Squares must be marked out on the intended area allowing for manufacturers tolerances and for equal margins where cut down widths may be needed. A 3mm gap should be left between tiles to allow for building movement as well as to maintain straight joints. Where tiled areas exceed 9sq. metres an extra movement joint of 15mm should be provided at 3 metre intervals in both directions. Similarly this joint must also be formed at perimeters, abutments and junctions of bays. A pointing compound suitable for this application may be used to fill the joints. Special attention should be paid when laying tiles onto build-up felt systems, manufacturers advice should be sought to avoid projection at overlaps which in turn may lead to point loading.

Cutting

It is recommended cutting tools are equipped with diamond tipped blades, this will result in a cleaner cut. **DO NOT** cut tiles near finished areas as the dust produced will solidify and stain on contact with laid tiles. Tiles strips cut less than 75mm (quarter tile) should be avoided. Suitable PPE must be worn to protect against the inhalation of dust.

Fixing

Eurodec PU Adhesive can be used to bond Eurodec tiles to both felt and asphalt. Tiles must be laid in accordance with manufacturers instructions. See specification below.

Hot bitumen may be used to bond tiles to felt roofs only. The compound should be heated to the correct temperature to facilitate the proper flow characteristics. Enough hot bitumen must be applied to ensure each tile is fully bedded and the marked squares are followed. Adequate downward pressure should be applied to the tile to achieve a complete bond. To maintain a level surface for adjacent tiles excess bitumen must be spread or removed immediately. Should bitumen be spilt onto the tile surface adequate time must be allowed for it to cool before removal. Care must be taken when working with hot bitumen. All necessary risk assessments must be undertaken prior to work commencing, applicable PPE worn and relevant COSHH and material safety data sheets available to the user.

Under no circumstances must hot bitumen be used to fix tiles to asphalt. The use of cold applied bitumen and other non-approved fixing compounds should be avoided. These may contain solvents and other chemicals harmful to bituminous based substrates. **If in doubt the manufacturer's advice should be sought before commencing work.**

PU Adhesive

Eurodec PU Adhesive is a moisture activated formulation of diphenylmethane-4,4'-diisocyanate adhesive designed to bond Eurodec tiles to asphalt and felt. It can be used in adverse weather conditions that normally prohibit the laying of tiles. Supplied in 1 litre bottles, its coverage is 50 tiles (approx). The material has a 6 month shelf from the date of purchase. Despite its suitability in damp and humid conditions it should not be used if rainfall is anticipated immediately after use as exposure to standing water in an uncured state will result in a loss of adhesion. Similarly PU should not be used on substrates affected by frost or in temperatures below 5 degrees centigrade.



Application

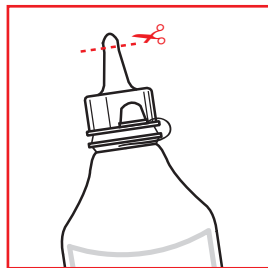


Fig 1



Fig 2

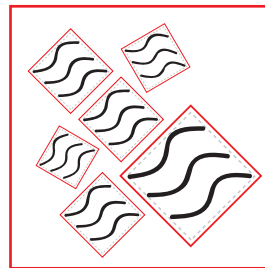


Fig 3

The nozzle should be cut to allow a 5mm bead (fig. 1) to be applied onto the tiles in 3 zig-zag shaped lines leaving a 20mm adhesive free border around the perimeter of the tile but extended to the corners of the inner area (fig. 2). The beads must be within the necessary tolerances to ensure an even expansion and subsequent level finish. Not more than 6 tiles must be prepared in advance (fig.3), once applied to the tile PU will begin to react with moisture in the atmosphere, prolonged exposure will result in a part cure leading to a reduced adhesion. Once in place downward pressure must be applied to the tile to achieve optimum contact with the substrate. This will facilitate an outward linear expansion to the edges and corners resulting in an ultimate coverage of some 70-80%. Follow this procedure for cut tiles. Excess adhesive may exude into the movement joint. It is important to allow this to cure fully before careful mechanical removal is attempted. Great care should be taken to avoid uncured PU spillages onto tile surfaces as staining will occur. Curing times for PU will vary depending on atmospheric conditions and temperature; however it is prudent to allow 24 hours before tiles can be trafficked.

Important Note: Some felt manufacturers apply talcum or release agents, this must be removed otherwise adhesion will be reduced. PU samples are available for evaluation purposes.

PU Adhesive Health and Safety

For outdoor use only. Eurodec PU is harmful if inhaled. Ensure adequate ventilation and avoid contact with eyes and skin. Always wear suitable PPE. If contact is made with skin wash immediately with soap and water. If contact is made with eyes, irrigate with water and seek immediate medical advice. Ensure safe disposal of container after use. Always ensure COSHH and Material Safety Data Sheets are available for further information.

Eurodec Tile Sealant

In common with all cement based products, spillages from foodstuffs, algae growth and airborne contaminants can lead to staining and discolouration. Where the aesthetic appearance is especially important it is advisable to coat the tiles with this specifically formulated fine particle acrylic resin. Available either factory treated or in 1 litre quantities for in-situ applications.

Maintenance

Provided the roof has been correctly designed and constructed, a roof finish in Eurodec Promenade Tiles, subjected to normal pedestrian traffic will only require minor maintenance. In a similar manner to other concrete paving products algal growth, weeds or moss may occur. This can be treated with the use of a propriety biocide. Damaged tiles should be replaced as soon as possible. Any colour difference between new and existing tiles should diminish with age. Tiles may become discoloured with time, the rate depending on the locality. Appearance may be restored by cleaning with warm water and a stiff brush. There may be gradual change in colour but this should not be excessive provided the tiles are not subject to standing water. The tiles have good abrasion resistance. However, care must be taken when moving patio furniture and maintenance equipment. To avoid scuff marks caused by rubber feet, or excessive wear from metal feet, chairs and tables, furniture should be lifted not dragged. Acid based cleaners must not be used, test any cleaner on a small area before use. Similarly high pressure washers must be avoided as the jet can damage the surface as well as weaken the bond between the tile and substrate. Staining can arise from food and drink spillages or from plants in the immediate vicinity. It is advisable to seal the tiles with Eurodec Sealant to protect against the above occurrences.

About us

Launched in the summer of 2008, our staff benefit from a combined experience of some 50 years in the manufacture of GRC Promenade Tiles. Located in Wincanton, Somerset we are ideally placed logistically to provide product, from stock, as and when the customer requires it. Our expertise means we can advise on every technical aspect ensuring complete peace of mind for distributor, roofer and customer alike. With a rigorous program of research and development in place our product range is currently being expanded with new patterns, colours and adhesives. In addition, our commitment to providing value, quality and sustainability results in the most comprehensive quality Promenade Tile system available.

This information and any recommendations or suggestions contained herein are given in good faith without warranty or guarantee as conditions of use are outwith our control. Product development is continuous and tiles are subject to change without notice. Please ensure that our products will be suitable for use by requesting samples for your evaluation relating to colour and working conditions. All tiles are sold in accordance with our Terms and Conditions of Sale which are available on request. GRC Promenade Tiles are handmade products and therefore subject to a manufacturing tolerance of +/- 1mm in relation to thickness.