

**DESIGN & ACCESS STATEMENT
PROPOSED CARPARK AT ST JOHN THE BAPTIST CHURCH,
DODWORTH GREEN ROAD, DODWORTH, BARNSELY.**

The following drawings have been submitted in support of our application:-

38/37/ sketch01: Survey & Proposal plans

38/37/Loc01 : Location Plan.

Cellweb/Marshalls Tegula Priora product information.

The church currently has no car parking, visitors to the church park on Dodworth Green Road which on busy days (weddings, funerals etc) causes congestion and reducing the road width to single lane. The new car park would provide much need parking for the church & reduce the risk of accidents on Dodworth Green Road

The Church is in a conservation area and was built in 1847.

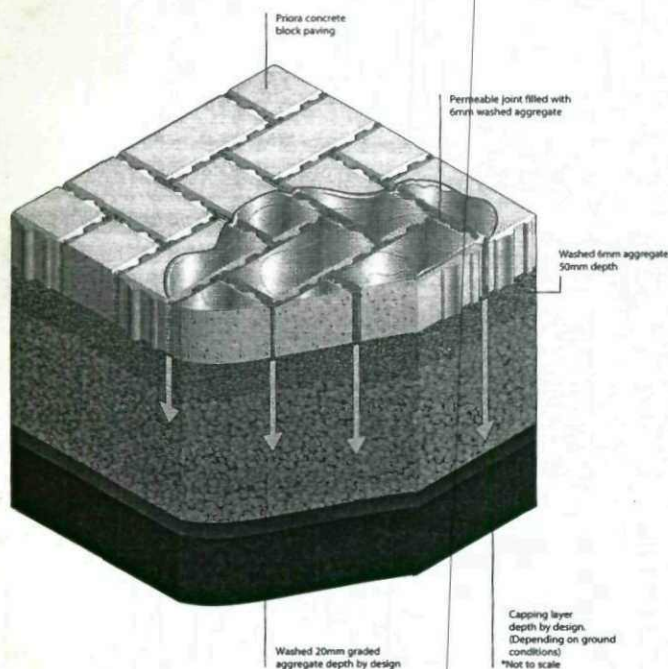
The proposed scheme for a new car park is located to the rear of the church on part of the old burial ground accessed by a small side road which serves a number existing dwellings & the cemetery.

The new car park will provide a total of 11 standard spaces & 2 disabled spaces.

The car park will be constructed using a cellweb geotextile root protection system with gravel dressing, timber edging to all car park perimeters, the altered entrance & disabled spaces constructed with Marshalls Tegula Priora. no drainage will be required as the cellweb & Priora system allows surface water to drain away naturally.

Access in to the car park from the small side road will require part of an existing stone wall to be removed to allow sufficient width for vehicles. The new entrance will have a Marshall Tegula Priora paving & drop kerbs to give access for wheelchairs etc to the main entrance ramp.

The proposal requires the removal of 1no existing tree which will be replaced with a new tree as shown on the proposal drawing, All existing trees will be protected using cellweb system & a new screen hedge will be planted to 2no sides of the car park.



THE PROBLEM

Traditionally rainwater has been managed by the use of surface water sewers, resulting in peak flows and increased pollution from first flush occurrences.

THE SOLUTION

Priora allows the surface water to drain naturally at source, eliminating surface ponding and substantially reducing the risk of pollution and flooding in the sewer systems.

Designers can also allow for roof water to be discharged directly into the sub-base via the paving, further reducing the load on the main sewers.

THE STRUCTURE

Priora blocks are produced in a standard 200 x 100mm module compatible with Marshalls Keyblok, however, the unique shape creates voids, which allows the surface water to pass through the pavement.

The interlocking joint provides stability through friction to the paved surface without the use of joint filling sand. Priora is manufactured to the same high specification as Marshalls concrete block paving.

Priora's high compressive strength delivers a dependable performance in even the most heavily trafficked areas. The drainage apertures provide an area in excess of 25,000mm²/m² when filled with 6mm washed aggregate and will allow for flow rates of 18,750 litres/sec/hectare.* Typical flows for UK rainfall would be 180 litres/sec/hectare. *Lab result/test

THE PLANNING

Increasingly developers are being required to consider SUDS solutions in planning applications as detailed in PPG25. Marshalls Technical Team will be on hand to offer expert advice to developers at every step of the process. From design to completion we will help plan your exact requirements, ensuring the innovative block paving system works both cost effectively and efficiently for the environment.

THE ENVIRONMENTAL BENEFITS

The major environmental benefit of a Priora permeable pavement, is that it significantly reduces peak flows and total volumes of water. This avoids any contamination associated with first flush occurrence. Current SUDS thinking is that contaminated run off water is dealt with environmentally, with hydrocarbons breaking down naturally within sub-base and heavy metals remaining trapped at low concentrations. Similarly, any major spillage event remains contained within a small area and does not get channelled into local river ecosystems.

TECHNICAL INFORMATION

Block and base materials have been tested and proven by Newcastle University Rolling Road Facility (NUROLF) by Professor John Knapton. Please telephone our technical hotline for further design guidance on 08704 113344.

European Patent No.- EP 0 791 689 A1



INFORMATION

www.marshalls.co.uk/paving
Sales Office: 0845 3020600
Technical Advisory Service: 08704 113344

Manufacturing Standards see page 2



SEE ALSO

Page 172 Linear Drainage
Page 74 Block Paving and Setts

Drainage Design Guide: 0870 2414725

Tegula Priora

ENVIRONMENTAL CONCRETE SETTS

New for 2006, Marshalls is launching Tegula Priora, the latest addition to Marshalls' Priora permeable paving range. Tegula Priora combines the environmental benefits of Priora with the traditional aesthetic qualities of Tegula paving.

The surface texture, colours and plans sizes of Tegula are retained, but with the introduction of the Priora nib formation, in Tegula Priora, Marshalls has created the permeable paving of choice for conservation areas or distinctive showpiece schemes.

Tegula Priora maintains the interlocking properties of Priora, but despite the uniformity in design, the innovative nib formation allows for random stretcher bond pattern to be laid.

Tegula Priora will be 80mm in thickness and available in small, medium and large elements of Tegula's standard 160mm gauge. Tegula Priora is to be produced in Tegula's five colours. Please refer to page 88 for details.

Tegula Priora is compatible with Tegula Kerb Setts, detailed on page 90.

Note: Tegula Priora will be available early 2006. For up-to-date information on Tegula Priora please contact the Marshalls Sales Office.



Tegula Priora paving



Tegula Priora paving



Mistral Priora paving



Mistral Priora block

Mistral Priora

ENVIRONMENTAL TEXTURED GRANITE AGGREGATE SETTS

In 2006 Marshalls is enhancing the Priora range of permeable paving yet further with the introduction of Mistral Priora. Mistral Priora unites the environmental benefits of Priora with the modern aesthetic qualities of Mistral paving.

With high quality exposed granite aggregates, Mistral Priora is the ideal paving solution for contemporary, cutting edge schemes requiring a permeable surface system.

The Mistral Priora interlocking nib formation echoes that of Tegula Priora, creating a voided space that allows surface water to drain naturally at source.

Mistral Priora will be 80mm in thickness and available in small, medium and large element of Mistral's standard 160mm gauge.

Mistral Priora can be used in conjunction with Conversation Kerb, detailed on page 150.

Note: Mistral Priora will be available early 2006. For up-to-date information on Mistral Priora please contact the Marshalls Sales Office.