

Important General Technical Information

Efflorescence

All concrete products may, in their early life, appear to lose some intensity of colour and experience a milky-white stain on the face of the product. This is efflorescence staining. It is a temporary phenomenon and is in no way detrimental to the performance of the material and responsibility cannot be accepted for its occurrence. Clay products may also suffer from a temporary white stain called lime bloom. This is quite different from efflorescence in concrete products and is caused by soluble salts within the clay being transported by water to the surface as they dry out. Responsibility cannot be accepted for its occurrence. For further information on efflorescence staining in both clay and concrete products, please call the Technical Advisory Service Tel: 0370 411 2233.

Other Weathering

Weathering and site conditions can occasionally cause other variations in shade to appear. Differential weathering can cause patchy dark discolourations on the surface of individual units. Again this will generally diminish over time and will not affect long term performance. Natural stone may develop added marking, deposits or patches as mineral content oxidises.

All products can develop algae and organic growths under certain environmental conditions and may require cleaning. Areas adjacent to borders, plant pots and trees may discolour from transfer of plant-life; specialist maintenance advice may need to be sought.

Marshalls cannot accept responsibility for any of the above conditions.

Maintenance

Paving materials require periodic cleaning to maintain their appearance. Regular sweeping to prevent the build-up of detritus is recommended.

Light coloured blocks, whilst structurally sound for driveway use, do emphasise tyre marks and oil spills on the driveway. It must be accepted that these products will need more maintenance if the overall appearance is to be maintained.

Proprietary cleaning agents are widely available. However care should be taken when buying cleaning agents as some varieties contain a concentration of acid, which can adversely affect the appearance of concrete products, clay and natural stone.

A trial on a small section of paving is always recommended prior to using on the full area.

For general cleaning of dirt and algae, vigorous brushing with a stiff yard broom with plenty of hot detergent solution (washing up liquid or non-bio washing powder), thoroughly rinsed with clean water should suffice. Repeated treatment may be required for paved areas sited beneath trees or in permanent/near permanent shade. In certain circumstances, prolonged contact with wet leaves can result in staining of the paved area. Such contact should be avoided wherever practical.

Power-washing

Power-washing with high-pressure equipment is not normally required. Should these methods be employed, the following precautions should be observed:

- i. Paving should be thoroughly swept to remove detritus (loose debris) that could act as an abrasive agent when moved by the force of a power jet.
- ii. A trial area should be tested before larger scale power-washing takes place.
- iii. No more than a medium pressure should be applied when washing paving.
- iv. The power-washing lance should be held at an oblique angle to the paving and at least 200mm (8") from the surface.
- v. If excess sand is washed from the joints during the washing exercise, it is important that the joints are re-sanded with similar materials upon completion.
- vi. If mortar joints between pavings are damaged during power-washing they should be re-pointed/made good with fresh pointing as required, to maintain the integrity of the paving.

Suitability/Application

The paving flags illustrated in this literature are primarily intended for domestic/landscape use only.

Paving flags suitable for areas subject to intense foot traffic, i.e. pedestrian precincts and commercial applications, etc. are detailed in separate literature. This literature is available on request by telephoning: 0370 411 2233.

For areas subject to vehicular overrun (driveways, parking areas, etc.), block paving products are recommended, (see Driveways section). The block paving products illustrated in this literature are intended for pedestrian and light vehicular overrun applications (driveways and similar).

For pavements subject to frequent overrun of heavy vehicles, block paving from our commercial/specification range should be used. These are detailed in separate literature, copies of which are available on request by telephoning: 0370 411 2233. Should customers be in doubt as to the suitability of any Marshalls product for a given application, please obtain guidance from our Technical Advisory Service Tel: 0370 411 2233.

Colour Variation

The colours shown in this literature are as exact as photographic and printing processes will allow. You can get samples from www.marshalls.co.uk/homeowners. We strongly recommend that colours are judged and chosen from actual materials rather than photographic representation depicted herein. Although every effort is made to ensure consistency of product colour, variations between production batches can occur. We therefore recommend that, when purchasing materials, especially in the case of larger quantities, they all come from the same batch and that products are thoroughly mixed on site by drawing from a minimum of three packs.

Availability

Details of pack contents are listed for the guidance of stockists. Product dimensions and weight, etc. are nominal and subject to manufacturing tolerances.

*Patented Paving System

Priora is patented in UK and EP079168931.

Natural Stone

In natural stone Iron spots can sometimes be identified, after installation. This is due to oxidation of iron materials within the matrix of the stone. This does not effect the structural integrity of the stone.

Staining

Certain common garden chemicals such as Ferrous Sulphate can stain paving. Please check the information given on the container holding the chemical. If chemicals are spilt on the paving remove immediately by rinsing away with clean water.

Marshalls Commitment to Quality & Innovation

Marshalls is committed to innovative product development and manufacture. To help you obtain maximum enjoyment and long service from any Marshalls product, we would be pleased to make you aware of the following:

The evolution of new product design is continuous and information is subject to change without notice. Customers should check with the stockist to ensure that they have the latest details.

All Marshalls products are manufactured to the appropriate European Standard where applicable. Where products (or intended usage) lie outside the scope of a British (or European) Standard, Marshalls own standard will be employed. All products are supplied subject to Marshalls Standard Conditions of Sale, a copy of which is available on request. Liability in respect of any statements, conditions, warranties and representations made on behalf of the Company is limited in accordance with the terms set out in the Standard Conditions of Sale.

Health and Safety

Care should be taken when handling and installing Marshalls products. Guidelines on the Control Of Substances Hazardous to Health (COSHH) are available for all Marshalls products, either through our website, www.marshalls.co.uk/homeowners or from Marshalls Technical Advisory Service. Tel: 0370 411 2233.

Marshalls Register

Marshalls Register of installers are regularly inspected to ensure they comply with the membership agreement. Marshalls are not a party to the contract between the Registered installer and the customer. Marshalls cannot be held responsible for any installation undertaken by a Marshalls Register installer.

Register Installer

Details of membership are available from Marshalls Register support team on 0345 820 5000.

Grass & Paving Notes

Common to all Marshalls Natural Stone:

- Marshalls endeavour to ensure that all natural stone products are covered by the Fairstone guarantee of quality. If the Fairstone Logo is visible on a product page be assured that this product is processed and supplied only by proven ethical sources (see page 11 for more information).
- All Marshalls Sandstone paving is covered by the Marshalls Stone Standard quality mark of assurance. Where the Marshalls Stone Standard logo is visible on a sandstone page, be assured that this product not only meets but exceeds the base technical levels outlined in the British Standard.
- The natural origin of stone means variation in colour, texture and natural markings is inevitable. Marshalls strive through expert hand selection to ensure the integrity of each natural stone range, however as in all natural products some variation may occur.
- Natural Stone products come with specific installation guidelines. Please contact our Technical Advisory Team on 0370 411 2233 or visit our website www.marshalls.co.uk prior to installation.
- Please note granite and marble are not suitable for use with WeatherPoint 365.
- Best practice is to use slurry primer on all natural stone and vitrified paving.

For specific installation guides Marshalls Register Installers can also consult the Installer Pocket Guide. Or if you are laying any Marshalls driveway materials for the first time, please contact Marshalls Technical Advisory Team on 0370 411 2233 or visit our website www.marshalls.co.uk for installation advice.

p14 ALWAYS GREEN

- Grades of grass supplied in 4m widths and can be cut to any length up to 25m (minimum 8m²).
- Recommend installing a driveway quality sub-base before laying Always Green for stability.

p30 SCOUTMOOR

- This product is supplied 'direct to site' only.
- It is recommended that you contact Marshalls Technical Advisory Service for best installation advice when laying this paving.
- A mortar joint or Instarmac FlowPoint should be used with this product.

p32 LAZARO MARBLE

- A marble product which should be installed on full mortar bed, and jointed with a proprietary waterproof grout.
- For perfect installation of this exceptional paving Marshalls recommend specific primers and bonding agent. Your Register Installer should refer to their Installation Guide or call our Technical Advisory Service on 0370 411 2233.
- We recommend the use of slurry primer, or similar flexible bonding agent to increase adhesion, this should be introduced to the back of the flag prior to installing onto the mortar bed.
- Ensure cutting is carried out using a power saw with the appropriate quality diamond blade.

p34-37 SAWN VERSURO, JUMBO, KINGSIZE & LINEAR

- Remember if used indoors this paving should be sealed with a proprietary water based acrylic sealant.
- When using Jumbo and King Size, due to the weight of the units mechanically aided lifting is essential.
- Please note Jumbo and King Size can only be delivered direct to site.
- This paving is ideal for jointing with Marshalls Weatherpoint 365 Jointing Compound.
- Sawn Versuro and Linear only: we recommend the use of slurry primer on the reverse side of the slab base before installing onto the mortar bed.

p38 CHAPELGATE

- This paving is ideal for jointing with Marshalls all weather, WeatherPoint 365 Jointing Compound.

p40 CASARTA SLATE

- Natural slate inevitably shows variation in colour, so viewing the actual samples is always recommended.
- Also dark slate sometimes surface blemishes occur during installation, these will weather in over time.
- If used indoors an appropriate water-based sealant is recommended.
- This paving is ideal for jointing with Marshalls Weatherpoint 365 Jointing Compound.

p42 CAPLETON

- We recommend installing on a full mortar bed.
- Joint with a proprietary waterproof grout.
- Use a slurry primer on the reverse of the slab before installing onto the mortar bed.

p44 GRANITE ECLIPSE

- As Granite Eclipse is a natural material, varying degrees of quartz veining may be apparent in some pieces.
- Make sure, if used indoors, paving is sealed with a proprietary water-based acrylic sealant.
- Marshalls recommend using a waterproof external grout, some other jointing compounds may stain this product. Weatherpoint 365 Jointing Compound not suitable.
- Occasionally small micro-fissures can be apparent within Granite Eclipse Graphite, these are not a sign of weakness and cause no issue technically to the stone.

p46 ANTIQUE ALVERNO

- A natural stone paving product.
- This paving is carefully calibrated to a consistent thickness to ensure speed and precision of installation.
- This paving is ideal for jointing with Marshalls Weatherpoint 365 Jointing Compound.

p48 FLAMED NARIAS

- A lightly flamed natural stone product.
- This paving can be purchased in less than full packs through Marshalls Order Select process.
- This paving is ideal for jointing with Marshalls Weatherpoint 365 Jointing Compound.

p49 ALVANLEY PAVERS

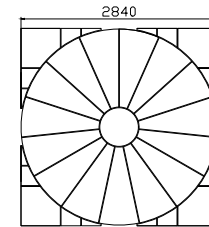
- Use a slurry primer on the reverse of the slab before installing onto the mortar bed.
- This paving is ideal for jointing with Marshalls Weatherpoint 365 Jointing Compound.

p50 RIVEN HARENA

- This paving is carefully calibrated to a consistent thickness to ensure speed and precise installation.
- This paving is ideal for jointing with Marshalls Weatherpoint 365 Jointing Compound.

p51 RIVEN HARENA CIRCLE

- A new natural stone circle design 2.84m diameter with optional squaring off kit.
- Remember Harena Circles are hand selected to ensure compatibility across your patio.
- This paving is ideal for jointing with Marshalls Weatherpoint 365 Jointing Compound.

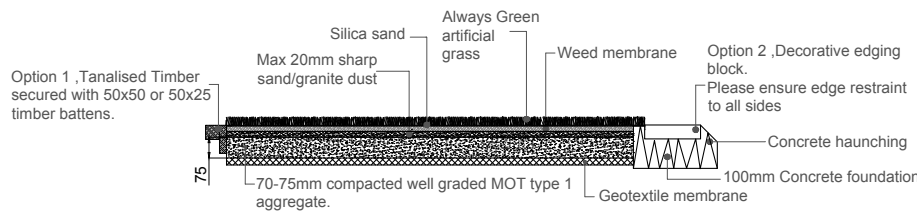


p52 RIVEN HARENA KALEIDOSCOPE

- For use as a feature within a patio with squaring off kit, or across the entire paved area, a new generation of 'crazy paving'.
- Hand selected to blend with other Riven Harena colours
- Dry lay before bedding to confirm pattern and joint widths.
- This paving is ideal for jointing with Marshalls Weatherpoint 365 Jointing Compound.
- Laying patterns are available to download or contact our Technical Advisory Service on 0370 411 2233.

p54 SYLVERN

- Install on a full mortar bed.
- Joint with a proprietary waterproof grout.



9 Typical section through an Always Green Lawn installed in accordance with Marshalls Register Installation Procedures
 D03 Scale 1:20 @ A3

p56 LIMESTONE ALURI

- Please note that Charcoal limestone can lighten through natural weathering.

p58 TOWNGATE

- This paving has not met the rigorous colour tolerance grading given to our premium grade Versuro Sandstone, therefore more colour variation will be apparent when laid.
- Use a slurry primer on the reverse of the slab before installing onto the mortar bed.

p60 INDIAN SANDSTONE RIVEN

- A budget natural stone product.
- This paving has not met the rigorous colour tolerance grading given to our premium grade Harena Sandstone, therefore more colour variation will be apparent when laid.
- This paving is ideal for jointing with Marshalls Weatherpoint 365 Jointing Compound.

p62-69 SYMPHONY

- For perfect results these products require appropriate cutting tools and correct installation techniques. Consult a Marshalls Register installer or contact our Technical Advisory Service on 0370 411 2233.
- Packs of Symphony are supplied with the correct amount Symphony Jointing Compound.

p70 SYMPHONY TUMBLLED

- New lightly distressed edges add a hint of tradition to this high performance paving.
- For perfect results these products require appropriate cutting tools and correct installation techniques. Consult a Marshalls Register installer or contact our Technical Advisory Service on 0370 411 2233.
- Packs of Symphony are supplied with the correct amount Symphony Jointing Compound.

p72 ARRENTO

- For perfect results Arrento Vitrified products require appropriate cutting tools and correct installation techniques. Consult a Marshalls Register installer or contact our Technical Advisory Service on 0370 411 2233.

p76 ARGENT

- Can be laid on sand bed/sand joint max size 450x450mm.
- For a contemporary look choose Argent Smooth, for greater slip skid properties try Argent Textured.
- This paving is ideal for jointing with Marshalls Weatherpoint 365 Jointing Compound.

p78 COACH HOUSE

- Paving should be bedded on a full bed of mortar.
- This paving is ideal for jointing with Marshalls Weatherpoint 365 Jointing Compound.

p79,80 HERITAGE & CIRCLE

- Paving should be bedded on a full bed of mortar.
- This paving is ideal for jointing with Marshalls Weatherpoint 365 Jointing Compound.
- Heritage Circle Diameter 2.44m (occupies an area approx 5m²). Download full diagram from the website.

p81 WOODSTONE

- Woodstone are faced on both edges for a realistic look.

p82 SAXON

- Please note Saxon is made in a number of factories across the UK and uses local aggregates. So it is not recommended to lay product from a number of factories together.
- Can be laid on sand bed/sand joint max size 450x450mm.
- This paving is ideal for jointing with Marshalls Weatherpoint 365 Jointing Compound.

p84 FIREDSTONE

- Paving should be bedded on a full bed of mortar.
- This paving is ideal for jointing with Marshalls Weatherpoint 365 Jointing Compound.

p85 WILDWOOD

- Can be laid on sand bed/sand joint max size 450x450mm.
- Paving should not be laid with butted joints.
- Can be obtained in less than full pack quantities where table indicates 'Order Select'.

p86 PERFECTA

- Can be laid on sand bed/sand joint max size 450x450mm.
- Yorkstone aggregates, give this product excellent non-slip properties, even when wet.
- This paving is ideal for jointing with Marshalls Weatherpoint 365 Jointing Compound.

p87 REGENT

- This paving is ideal for jointing with Marshalls Weatherpoint 365 Jointing Compound.

p88,89 TEXTURED & UTILITY PAVING

- Although performance is good, sizes and colours will be limited, and finish may be varied.
- This paving is ideal for jointing with Marshalls Weatherpoint 365 Jointing Compound.

Driveway Notes

General Driveway Notes

- All Marshalls driveway products in this brochure are designed for domestic vehicles only, they are not designed for commercial vehicles.
- Driveways must be installed with edge restraints for stability.
- Driveways must be installed in accordance with current legislation to manage and control water run-off.
- Tools to aid installation are now available from Marshalls. Call 0345 30 40 707 to discuss in more detail with our sales team.

Natural Stone Driveway Products

- Marshalls endeavour to ensure that all natural stone products are covered by the Fairstone guarantee of quality. If the Fairstone Logo is visible on a product page be assured that this product is processed and supplied only by proven ethical sources (see page 11 for more information).
- All Marshalls sandstone paving is covered by the Marshalls Stone Standard quality mark of assurance. Where the Marshalls Stone Standard logo is visible on a sandstone page, be assured that this product not only meets but exceeds the base technical levels outlined in the British Standard.
- Due to the nature of this product, you may see some colour variation in natural stone products.

Marshalls Concrete Driveway Products

- Mix blocks from a number of packs to ensure the correct colour blend.
- Take blocks from vertical columns rather than horizontal layers unless otherwise stated.
- Marshalls concrete block paving is manufactured in different factories. Colour may vary slightly across these works of manufacture.
- Marshalls can supply kiln dried sand, contact your local service centre for more information.
- Jointing sand should be introduced before the initial vibration and a rubber-faced matting on the vibrating plate should be used.

***For specific installation guides, please contact Marshalls Technical Advisory Team on 0370 411 2233.**

p92 PRIORA Conditions and Guidelines for Use

CONDITIONS REQUIRED FOR PRIORA

The grade of Piora featured in this brochure is only intended for normal domestic vehicles and pedestrian traffic, though occasional delivery vehicles over 3.5 tonnes gross weight can be tolerated.

The Domestic Piora System is only intended for driveways or paths where infiltration is required only in the immediate Piora paved area and not from other surrounding paved or roofed areas (see rainwater catchment area guideline on the next page).

In some parts of the country there are ground conditions where infiltration could adversely affect foundations to houses, therefore, if in doubt seek advice from a specialist or the local authority building control department.

Properties constructed pre 1920 may not have been built on traditional concrete foundation, therefore in this case, Marshalls Domestic Piora System should not be installed.

Check for services, Piora must not be installed if gas or electric services run through intended Piora areas.

Piora is a trademark of UNI-International Bausysteme GmbH.

p101 DRIVEWAY SETTS

- A premium stone driveway product.
- Please note due to the nature of this product significant variation between stones can occur.
- For a coordinated natural stone look try Natural Stone Walling, p102, p110. Stone Steps p54.
- The use of the correct installation method is critical for this product, please contact Marshalls Technical Advisory Service for more information.
- For paths and edging smaller quantities can be ordered via the Order Select service, see p194.

p102 SCOUTMOOR SETTS

- Spoiling may occur on a number of units, this is a natural phenomenon.
- Please note due to the nature of this product significant variation between stones can occur.
- The use of the correct installation method is critical for this product, please contact Marshalls Technical Advisory Service on 0370 411 2233 for more information.

p104 MAGNASETT

- Please note due to the nature of this product significant variation between stones can occur.
- The use of the correct installation method is critical for this product, please contact Marshalls Technical Advisory Service for more information.

p106 NATURAL STONE SETTS

- Please note due to the nature of this product significant variation between stones can occur.
- The use of the correct installation method is critical for this product, please contact Marshalls Technical Advisory Service on 0370 411 2233 for more information.
- For paths and edging smaller quantities can be ordered via the Order Select service, see p194.

p108 SAWN GRANITE SETTS

- Please note due to the nature of this product significant variation between stones can occur.
- The use of the correct installation method is critical for this product.
- Use rubber protector on conductor plate.
- Please note Marshalls WeatherPoint 365 is not suitable for use with this product.

p110-115 DRIVESYS SPLIT STONE, FLAMED STONE & RIVEN STONE

p116-119 DRIVESYS ORIGINAL COBBLE & CLASSIC PAVER

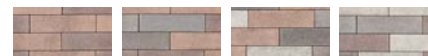
! IMPORTANT LAYING INFORMATION:

- It is essential that the Drivesys installation guidelines are followed.
- A soil test to check ground and permeability conditions should be completed prior to installation.
- The Drivesys system is not always suitable for poor ground conditions, such as heavy clay areas. We would recommend that you contact us prior to installation for further advice if ground conditions are not ideal.
- Drivesys Jointing Compound is guaranteed for a period of 12 months, or 2 years if the customer has purchased a Marshalls Register Hard Landscaping Guarantee.
- Drivesys must be installed with a solid edge restraint around the perimeter to retain the driveway.
- Drivesys units must come into full contact with the adjoining block when laid.
- Marshalls does not recommend installing Drivesys on a radius.
- For driveways with an incline of 15° or more or that has specific installation design requirements, please contact Marshalls Technical Advisory Service 0370 411 2233.
- Drivesys blocks come with a protective transportation seal which wears off to reveal the slightly, lighter true colour
- The correct amount of jointing compound is supplied with every pack of Drivesys.
- After installation, scratches may be visible in the transportation seal. This will weather as the seal dissipates but care should be taken to reduce this during installation.

For more technical information or assistance, please contact our Technical Advisory Team 03704 11223.

p120 DRIVELINE METRO

- Lay a standard driveway sub-base as a flexible installation.
- Driveline Metro can be a single colour driveway, or you can purchase a number of different colour packs to create a unique effect.
- 80mm block will ensure structural stability but absolutely no commercial vehicle should run over this product.
- A full layer of kiln dried sand should be deposited before any compaction takes place, making sure all blocks are completely covered.
- When cutting, it is important to make sure that once cut with water the block has been perfectly cleaned before installing.



Four colour options permit numerous designs

p122 DRIVESETT ARGENT

- Lay a standard driveway sub-base as a flexible installation.
- Drivesett Argent is also available as a Sustainable Drainage system, see Drivesett Argent Piora p140.
- When cutting, it is important to make sure that once cut with water the block has been perfectly cleaned before installing.

p124-127 DRIVESETT TEGULA ORIGINAL

- Lay a standard driveway sub-base as a flexible installation.
- Perfect for driveways, paths and patios.
- This product is manufactured across the country. Colour may vary slightly across the manufacturing sites.
- Due to the manufacturing process, it is not recommended to mix project packs with single size packs.

p128 DRIVESETT COPPICE

- Lay a standard driveway sub-base as a flexible installation.
- Take product from across a layer of the pack to achieve the correct colour blend.
- When laid randomly, colours will give the illusion of multiple block sizes.
- Potential to lay in different patterns, see website for details.

p130 DRIVESETT NATRALE

- Lay a standard driveway sub-base as a flexible installation.
- Supplied in single size packs for choice, laying pattern options can be found on the Marshalls/ Homeowners website.

p132 DRIVELINE NOVA

- Lay a standard driveway sub-base as a flexible installation.
- The colours blend throughout the packs so please ensure appropriate mix is installed across the area.
- The two textures can be laid together or individually.
- Lay in different laying patterns, see website for recommended options.

p134 DRIVESETT SAVANNA

- Lay a standard driveway sub-base as a flexible installation.
- Supplied in single size packs for choice, laying patterns on website, marshall.co.uk/homeowners.

p136 **DRIVELINE 50**

- Lay a standard driveway sub-base as a flexible installation.
- An upgrade to Standard CBP Driveline 50 is an improved driveway product.
- This product is manufactured across the country. Colour may vary slightly across the works of manufacture.
- Lay in different laying patterns, see website for options.

p138 **STANDARD BLOCK PAVING**

- Lay a standard driveway sub-base as a flexible installation.
- A standard block paving product, made in different factories in England, Scotland and Wales therefore variations in colour and tone may occur.
- See Driveline 50 for a more quality block paver.
- Keykerb range, see p185, provides standard edge restraint for this range.

Common to all Priora Driveways:

- The Priora design drains water away safely in heavy rainfall without burdening the community drainage system.
- If installed with the correct sub-base this permeable paving solution can be used in a front garden without obtaining planning permission.
- Specific installation guidance must be followed.
- The Priora System should not be attempted by the DIY enthusiast or untrained installer. It requires the careful calculation of a soil permeability test and appropriate use of specially graded sub-base aggregates.**Should an installer wish to undertake training for the installation of this product please call the Marshalls Helpline on 0345 820 5000 for further information.

Visit the Marshalls website to find your nearest Marshalls Register Installers trained to install Priora Systems, or call 0345 820 5000.

p140 **DRIVESETT ARGENT PRIORA**

p142 **DRIVESETT TEGULA PRIORA**

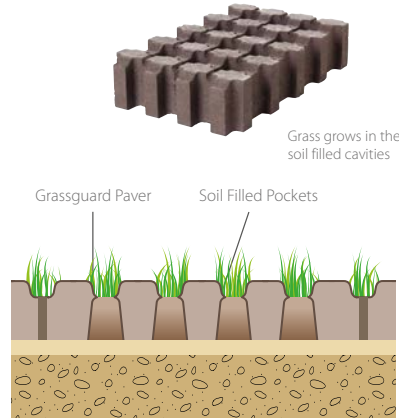
- Each 60mm block features the Marshalls unique, patented Priora nib.
- No drainage, tarmac or soakaways required if installed correctly.
- Priora must be laid with 20mm and 6mm clean crushed stone aggregate to BS EN 13242 and BS EN 12620 to ensure compliance.
- Argent Only: – Supplied in mixed size packs, blocks are designed to be laid in a coursed laying pattern.
- Argent Only: – When cutting, it is important to make sure that once cut with water the block has been perfectly cleaned before installing.

p144 **DRIVELINE PRIORA**

- Each 60mm block features the Marshalls unique, patented Priora nib.
- No drainage, tarmac or soakaways required if installed correctly.
- Priora must be laid with 20mm and 6mm clean crushed stone aggregate to BS EN 13242 and BS EN 12620 to ensure compliance.
- Numerous laying patterns available; contact Marshalls Technical Advisory Service or see website.

p146 **GRASSGUARD**

- A permeable concrete grid, driveway system.
- Ideal for occasional car parking spaces, but due to its nature it is not as even as other concrete block paving products, so extra care must be taken when walking over areas in high heels.
- Manages rainfall run off in a sustainable way and does not require planning permission when installed correctly.
- The Grassguard grid allows grass to grow through the blocks, providing a green option for parking.



- Seed with tough, coarse rye grass which, as it grows, binds the slabs and bare materials together to progressively improve structural strength and load bearing.
- Full and detailed guidance on installation and sub-base to achieve and maintain grass can be found on the website or call Marshalls Technical Advisory Service.

p147 **DRIVEGRID**

- A composite permeable grid system, which is filled with gravel to create a car parking area or pathway.
- When using this product it is essential that the area is framed with an edge restraint for stability.
- For best aesthetic looks Marshalls recommends using a driveway entrance strip.
- Grid and Membrane are packed together & cannot be sold separately.
- If installed with a correctly calculated sub-base this permeable driveway system can be installed without obtaining planning permission.
- Drivegrid is guaranteed for one year or two years when a Marshalls Hard Landscaping Guarantee is purchased.

CONDITIONS REQUIRED FOR PRIORA

The grade of Priora featured in this brochure is only intended for normal domestic vehicles and pedestrian traffic, though occasional delivery vehicles over 3.5 tonnes gross weight can be tolerated.*

The Domestic Priora System is only intended for driveways or paths where infiltration is required only in the immediate Priora paved area and not from other surrounding paved or roofed areas (see rainwater catchment area guideline opposite).

In some parts of the country there are ground conditions where infiltration could adversely affect foundations to houses, therefore, if in doubt seek advice from a specialist or the local authority building control department.

Properties constructed pre 1920 may not have been built on traditional concrete foundation, therefore in this case, Marshalls Domestic Priora System should not be installed.

Check for services, Priora must not be installed if gas or electric services run through intended Priora areas.

Priora is a trademark of UNI-International Bausysteme GmbH.

GUIDELINES FOR INSTALLING PRIORA

Surface Gradient

The intended Priora area must fall away from the owner's house and any other buildings in the immediate vicinity.

If the driveway exceeds 20m in length and/or has a gradient greater than 1 in 100 then please contact Marshalls Technical Advisory Service.*

The top surface of the driveway should finish at least 150mm below any adjoining wall DPC level.

Existing Foundations

If your house lies adjacent to or less than 600mm from the proposed Domestic Priora driveway area, establish depth of house foundation before undertaking any soil test/Priora installation. The house foundation top surface must be 600mm (minimum) below the finished level of the top of the proposed Priora driveway.

Soil Strength and Permeability

Marshalls Domestic Priora System must be laid on a subgrade which has previously had an established and adequate existing driveway and an area which has a subgrade soil strength greater than 5%.

The Domestic Priora System is only suitable for soil areas where infiltration applies and the test criteria have been met as per the standard permeability test.

For the standard permeability a test hole should be dug for every 20m² of driveway. There should be a minimum of two holes. Holes/pits should be spaced evenly in relation to the proposed Priora area.*

Discharge onto Roadway

The Domestic Priora area must not discharge onto surrounding public roadway and pathways and towards any buildings.

Rainwater Catchment Area

No adjoining surface areas (rainwater pipes, roof areas, etc) must drain onto and into the proposed Domestic Priora driveway area, however, small areas such as door steps and garage areas are acceptable providing they do not exceed 5% of the driveway area.

Guideline: Catchment area = driveway area.
Catchment area = drained surface area.

Aggregates

Priora must be laid with 20mm and 6mm clean crushed stone aggregate to BS EN13242 and BS EN12620 to ensure compliance.

Trees

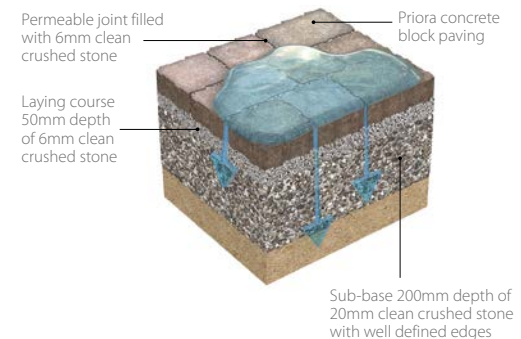
When installing in close proximity to existing trees, tree roots smaller than 25mm diameter may be pruned back, preferably to a side branch, using a suitable pair of secateurs or hand saw. Roots larger than 25mm should only be severed following consultation with an arboriculturist, as they may be essential to the tree's health and stability. Protection of the pavement will also be required, hence the requirement of a permeable root barrier system such as the Geoweb bio barrier system (www.Fiberweb.com) or similar which is non surface protruding, and therefore, does not present a trip hazard once installed.

Health and Safety

It is possible that more excavation for a Priora driveway may be required than that of a driveway constructed of traditional block paving, therefore, care must be taken when excavating ground to a deeper level. Particular care must be taken to protect the sites from children and partially sighted persons and for collapse of adjoining features such as boundary walls/fences.

Check for services, if they run through intended Priora areas, the service provider must be consulted before work commences.

Care must be taken when constructing over sewer, rainwater pipes and water pipes to ensure that the services remain supported for their full length by undisturbed material and are surrounded on the remaining sides by a minimum of 150mm of 6mm material to protect the service.



Walling, Steps & Finishing Notes

Note: No product can be maintenance-free. Requirement will depend on product use, location and weather.

Common to all Marshalls Walling Products:

- Marshalls recommends the use of Coping and Caps with all Walling Products. Copings and Caps protect walls against the staining effect of rain for a period of time.

Common to all face Veneer Walling Products:

- Where a facing/veneer wall is used with a garden/soil/planting/aggregates behind it, a membrane must be installed at the rear of the wall to stop moisture draw through.

p155 STONEFACE SAWN VENEER WALLING

- This product is supplied with the correct amount of adhesive and primer.
- Mar

p156 SAWN VERSURO WALLING

- Faced on all sides.
- Adhesive recommended is Marshalls M-Fix.

p157 TRADITIONAL NATURAL STONE WALLING

- A 10mm joint width is recommended with this product.

p158 STONEFACE DRYSTACK VENEER WALLING

- Panels are in a Z cut format to hide joints, for a seamless finish.
- This product is supplied with the correct amount of adhesive and primer.
- The mirrored inserts used in Nero Quartzite Mirror are made from brushed steel

p161 ARGENT WALLING

- Corner Quoin Ends can be ordered via Marshalls Order Select.
- Please note this walling is only faced on one side.
- Use Marshalls 'M-Fix Walling Adhesive' when using this product.

p162 CROFT STONE WALLING

- This walling is ideal for retaining walls up to 6 courses, but should never be used as a freestanding or dividing wall.
- Minimum radius int/left 750mm on base layer.

p163 MARSHALITE WALLING

- A 10mm joint width is recommended with this product.

p164 TEGULA WALLING

- A 10mm joint width is recommended with this product.

p165 OLD MILL BRICK WALLING

- A traditional clay walling product.
- A 10mm joint width is recommended with this product.

p166 BULLNOSE STEPS

- Marshalls has a broad range of high performance natural stone steps, ranging from sandstone to marble and granite
- They can be used to match Marshalls natural stone paving products or to complement concrete paving products.

p175 DRIVESETT DECO

- This product can also be used for pathways, driveway entrance strips or borders.
- One edge is grooved and so, to ensure an even course width, the blocks should be laid with the grooved edge facing the same way.

p180 WEATHERPOINT 365

- A non hazardous, weed and frost resistant jointing compound ideal for 8-15mm joints.
- Speeds up installation time.
- WeatherPoint 365 can be applied in wet or dry weather conditions, but water must always be used.
- No surface staining if applied correctly.
- WeatherPoint 365 is not suitable for use on granite paving or marble.
- Guaranteed for 2 years if Marshalls Hard Landscaping Guarantee has been purchased.

p182 DRIVEWAY EDGING

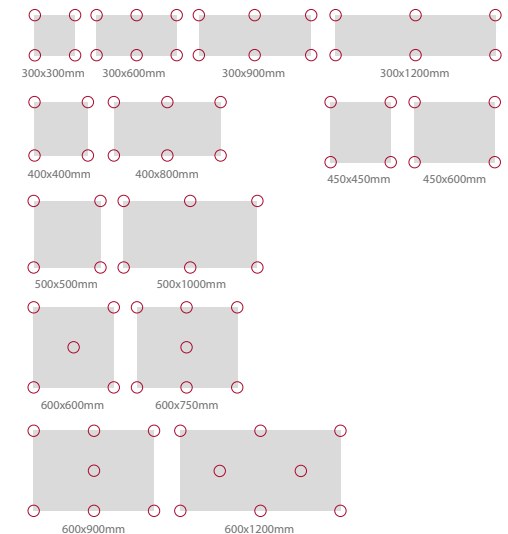
- The perfect edge restraints to coordinate with the Driveway products or contrast with other products within the Driveways range.
- Specific installation guidance must be followed. Consult a Marshalls Register Installer. Or for further guidance contact Marshalls Technical Advisory Service.

p183 BLOCK KERB

- Tegula and Savanna Kerb have a 45° splay.
- Smallest radius for an internal kerb is 0.46m.
- Smallest radius for external kerb is 0.62m.
- When laying Keykerb, KL protrudes 100-125mm and KS by 25-50mm.

p186 MARSHALLS PEDESTALS

- For best results, ensure you use the rubber base pads on the sub-base to keep the pedestals in place and rubber head pads on the head of the pedestal to reduce noise and minimise movement of the paving units.
- If laying vitrified paving onto a roof terrace or where wind loading may be a concern, apply a small dab of Sika EBT onto both sides of the rubber head pads before installing the paving unit to minimise movement.
- Roughly lay out sufficient pedestals for 4 or 5 paving units at a time.
- For corner units, or when a cut would otherwise reduce the paving unit to half of its original size, reduce the pedestal size by cutting along the bottom of the base unit.
- Lay the paving units, ensuring the pedestals are placed in the correct formation to fully support the unit. For the correct number of pedestals for each plan size, see diagram below:



- Ensure correct falls are incorporated into your design to remove any surface water.

*Contact Marshalls Technical Advisory Service on 0370 411 2233

Hard Landscape Guarantee

Hard Landscape Guarantee Conditions

Marshalls products are manufactured to the highest standards. The Hard Landscape Guarantee is only available for domestic projects installed by a Marshalls Register Installer where a guarantee has been purchased; the cost of the guarantee is £50 (+VAT) per £5000 of the installed value. The Hard Landscape Guarantee can only be issued by Marshalls upon receipt of a correctly completed Guarantee Request Form and the relevant fee. The Hard Landscape Guarantee covers Marshalls branded products. Marshalls hereby warrants, that in the event of the failure of Marshalls products used in the construction of a domestic driveway or patio installed at the address named on the Guarantee, replacement products will be supplied free of charge for a period of 10 years commencing from the installation date. **For products produced with Surface Performance**

Technology this period is extended for a further 10 years. Additionally, the labour costs incurred during the replacement of these faulty materials, and/or labour costs arising from faulty workmanship, will be free of charge for a period of 5 years commencing from the installation date. This guarantee is subject to the terms and conditions below. This guarantee is offered as an additional benefit by Marshalls and in no way affects any parties' statutory rights.

The house owner is responsible for applications for any relevant planning permission. Marshalls do not accept liability for application of planning permission on any project covered by the Marshalls Hard Landscape Guarantee or otherwise.

In the unlikely event of products reaching you in less than satisfactory condition, you should notify the stockist immediately with details of the product and batch codes printed on the packaging. In addition to this, responsibility for costs incurred for uplifting and relaying defective products may be prejudiced if, upon reasonable inspection, the defect ought to have been apparent prior to laying.

Pendle, Leyburn, Textured Utility, Utility and Richmond pavings are intended to serve the 'budget' end of the market and as such should not be confused with premium products such as Heritage or Coach House. In addition to this, because of their limited protection in transit, there is a significant probability of pavings bearing scratch marks to the face. Due to local manufacturing, precise colours and face finishes may vary and it is recommended that pavings from different factories are not mixed on site. Pendle, Leyburn, Textured Utility, Utility and Richmond therefore fall outside the scope of The Hard Landscape Guarantee.

Order Select Service

When designing your garden or driveway there may be times when you do not need a full pack of product, for example when:

- Finishing an area of paving.
- Creating a decorative border.
- Adding to an existing project.

Marshalls unique 'Order Select' service means that Marshalls stockists and installers can order less than full-pack quantities for most of the products in this brochure.

- Check that the product you need has the Order Select Logo (✓) in the table.
- Carefully calculate the number of each item required, making an allowance for cutting the wastage, however, some may be mixed size packs and although you can order less than pack quantity, this will still be of mixed sizes but just less square metres than in a normal pack.
- Give this to your local stockist who will place your order direct with Marshalls for delivery by express carrier.

A premium is charged for this service, so it may be more economical to adjust the amount to the nearest full pack – especially if you are considering extending the project at a later date. Please note: If ordering a product to extend an existing project, it is likely that batch numbers will be different and the colour may vary.

Please note, on some Project Pack products there may be a limit on the number of single size flags available to order via Order Select. The maximum number will not exceed the amount of that single size contained in the Project Pack.

Acknowledgements

We are grateful for the help of the following people and organisations in the production of this brochure:

Marshalls Register Members

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www.advancedlandscapes.co.uk

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www.habitatlandscape.co.uk

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www.jabird.co.uk

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www.landscapes4living.co.uk

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www.mandasearles.co.uk

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Tel: 020 8337 3846
www.msnelsonlandscapes.wixsite.com/gardens

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www.stowconstruction.com

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www.tottingtonlandscapingbury.co.uk

Traquair Paving Restoration & Installation Company Ltd,
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www.traquairpavingandrestoration.com

Waterdale Landscapes, York
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www.waterdalelandscapes.co.uk

Yorkshire Pro-Paving & Groundworks Ltd, Otley
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www.yorkshirepropaving.co.uk

**The Marshalls Register of Accredited Landscape
Contractors and Driveway Installers is a
national network of independent professional
installers, to find one in your area call
0345 820 5000**

Calls may be monitored or recorded

Marshalls is also grateful to

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How to contact Marshalls

(Calls may be monitored or recorded)

The Marshalls Customer Helpline is here to help you with all your product and brochure enquiries.

**Marshalls Customer Helpline
0345 820 5000**

**To find an installer or a local stockist in your area call
0345 820 5000**

**The Marshalls Technical Advisory Service is here
to help customers and installers with all aspects of
installation technical advice
0370 411 2233**

The Marshalls website is a comprehensive source of ideas, product information, and much, much more.

www.marshalls.co.uk/homeowners

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