



MaDE

Marshalls
Design and
Engineering

Introducing **MaDE** – Marshalls Design & Engineering.
A specialist team working alongside you to design,
engineer and specify better landscape projects.

MaDE to

Analyse
Collaborate
Plan
Achieve

Great projects don't happen by chance.

They're shaped by creative thinking, technical expertise and a clear understanding of how design becomes reality. MaDE is our in-house team of specialists who work alongside clients, designers and contractors to turn ideas into buildable solutions.

Marshalls Design and Engineering (**MaDE**) combines design expertise, engineering knowledge and technical assurance to help clients overcome complexity, reduce risk and deliver landscape projects with confidence. Whether the priority is buildability, design intent or long-term performance, we solve challenges early, before they become problems on site.

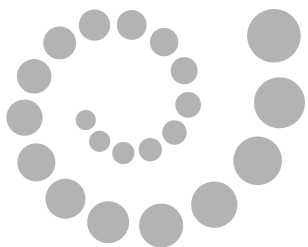
MaDE to reduce carbon

MaDE to reduce cost, not quality

MaDE to simplify the complex

MaDE to deliver great design

MaDE to save time on site





From design intent to delivery

MaDE is a dedicated team of specialists you can bring into your project, supporting clients, consultants and contractors throughout the project lifecycle.

Working alongside landscape architects, engineers and project teams, we help transform ideas into practical, deliverable solutions, providing specification-ready solutions aligned to real-world installation and performance.

From concept development and specification through to delivery, we provide the expertise needed to resolve technical challenges, protect design intent and achieve better project outcomes.

Drawing on more than a century of proven experience across complex public realm, urban environment and public sector projects, MaDE helps teams make informed decisions and deliver landscapes that perform as intended.

These are the core areas where the MaDE team supports your project, from early design through to delivery.

MaDE

Marshalls Design and Engineering

LEVEL 1

The core elements that make up our Marshalls Design and Engineering


Pavement solutions


Bespoke products


Connected digital

LEVEL 2


Each core element in level 1 is then broken down into individual service areas


 Pavement engineering


 Bespoke natural stone features

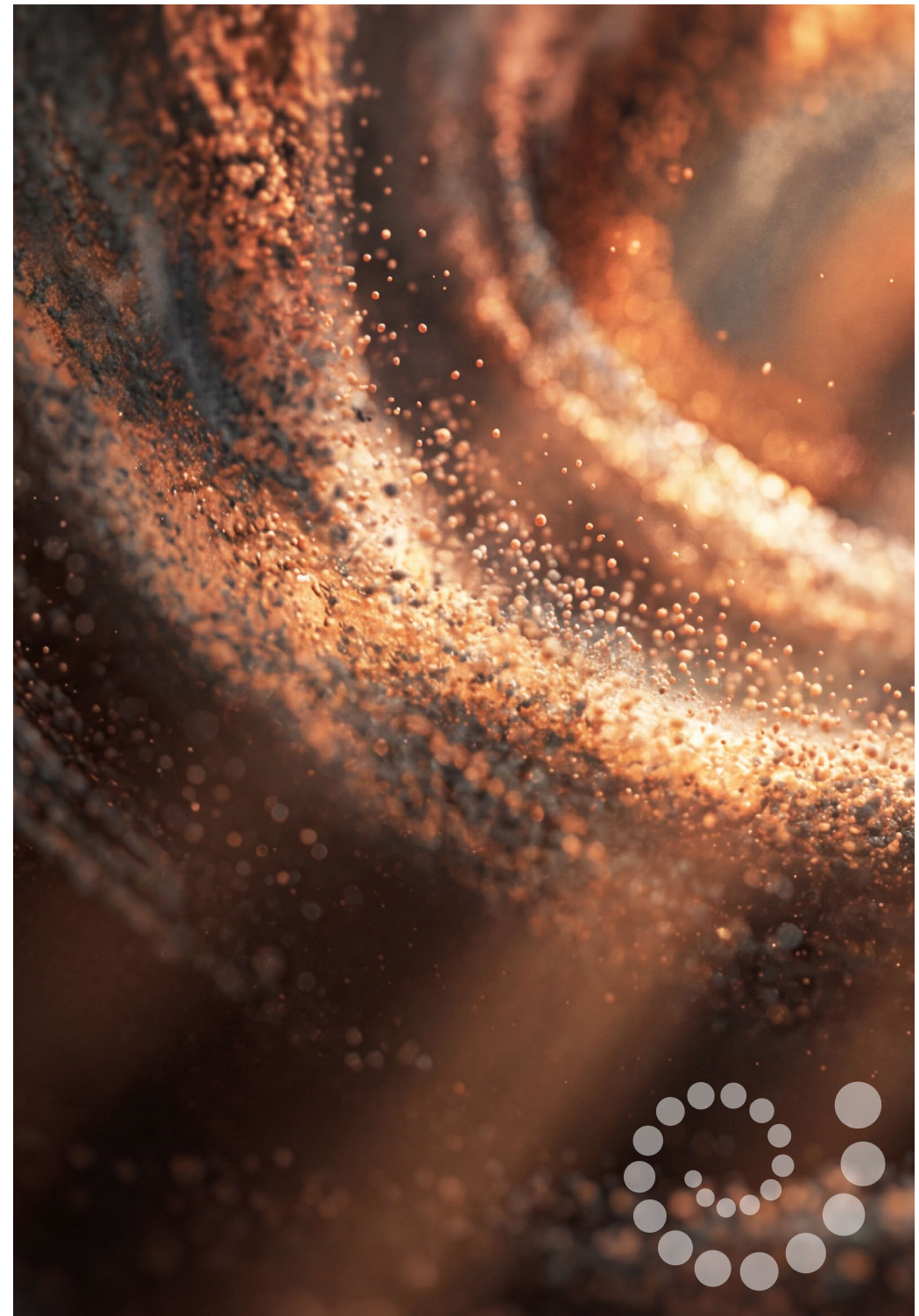
 Digital visualisation and rendering

 SuDS design

 Customised and bespoke street furniture

 BIM modelling and collaboration

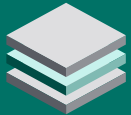
 Hostile vehicle mitigation



Pavement solutions

Working as part of your project team, our expertise in pavement design helps create spaces that perform beautifully, look exceptional and deliver value throughout their lifecycle. By challenging unnecessary or over-engineered specifications, we help you reduce cost, programme and embodied carbon.

From permeable paving to traditional pavement solutions, our bespoke, fully warranted designs go beyond standard approaches, delivering smarter, more efficient outcomes tailored to the needs of each project.



Pavement engineering

- Bespoke pavement design solutions tailored to project requirements
- Design guidance, support and specification advice
- Fully warranted pavement designs
- Identification of potential failures and risk
- Reduction of over-engineered pavement designs
- Optimisation to reduce time, cost and carbon



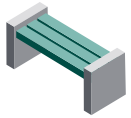
SuDS design

- Project specific SuDS assessment
- Permeable design based on local rainfall behaviour
- System selection based on ground permeability characteristic
- Balancing structural load with hydraulic performance
- Fully warranted permeable paving design
- Removal of SuDS solutions that impact time, cost, and carbon
- Incorporation of additional non-permeable catchment areas into permeable storage
- Support with SuDS adoption conversations at planning and development stages
- Over 15 years' experience in SuDS and permeable paving



Bespoke product

Some projects require a more collaborative, bespoke approach. Our design and engineering specialists work closely with you to develop bespoke natural stone features, customised street furniture and integrated solutions that bring ambitious ideas to life. Combining material expertise, manufacturing knowledge and practical buildability, we create features that are as achievable as they are inspiring. Where projects require discreet hostile vehicle mitigation, protection can be seamlessly engineered into the design without compromising aesthetics.



Bespoke street furniture

- Customised and fully bespoke street furniture solutions
- Engineering design, modelling and cost management
- Component scheduling and build sequencing
- Product rendering and visualisation
- Design reviews and project assessments
- Project-managed design, manufacture and delivery
- Reducing risk and cost from complex designs
- Using customisation to deliver lower cost bespoke solutions



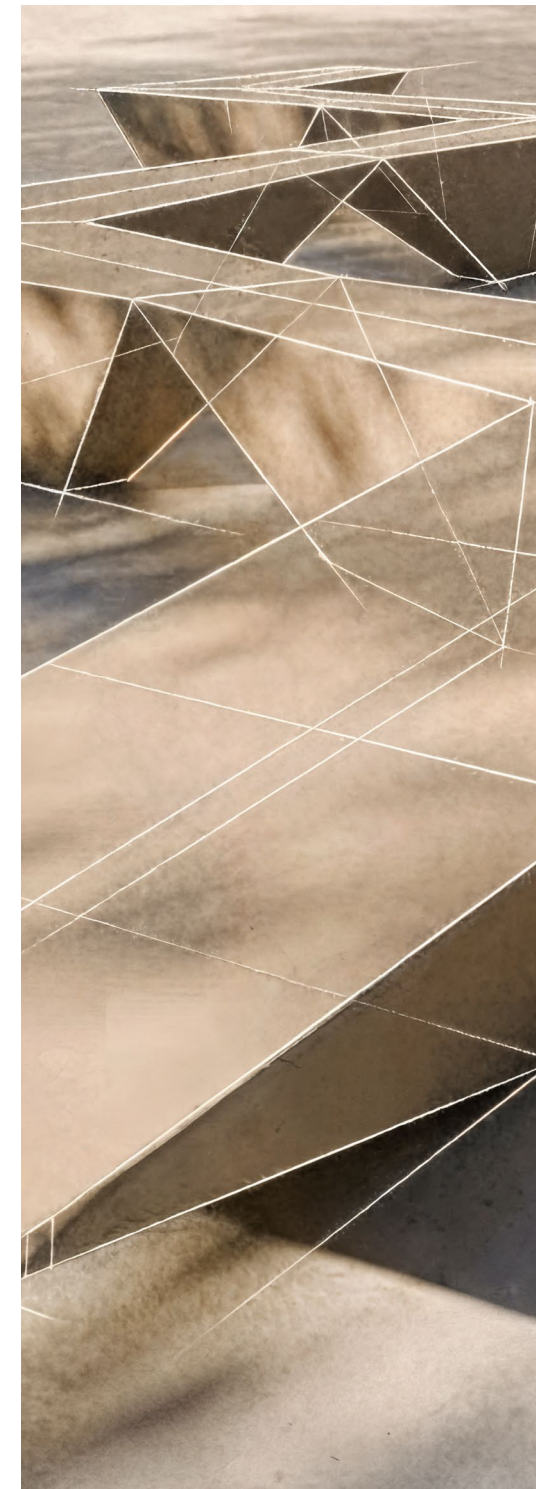
Hostile vehicle mitigation

- Project assessment and regulatory guidance
- Project-specific sizing and positioning of HVM protection
- Incorporation of HVM protection into standard street furniture and landscape features
- Engineering design, modelling and cost management
- Foundation design and reinforcement scheduling
- Component scheduling and build sequencing
- Bespoke and customised HVM product solutions
- Shallow-mount foundation options for restricted excavation areas
- Extensive expertise in designing safer, secure public spaces



Bespoke natural stone

- Bespoke natural stone feature design and 3D modelling
- Material suitability assessments and technical guidance
- Analysis of fit, finish and buildability
- Component design, scheduling and detailing
- Construction sequencing and project management support
- Identification of over-engineering and potential design risks
- Support for site programming, build sequencing and delivery scheduling
- Simplifying the design, manufacture and delivery of bespoke stone features



Connected digital

As part of our design and engineering service, we use advanced digital tools to help you and your stakeholders visualise, refine and realise their projects. From photo-realistic renderings to immersive animated flythroughs, we transform concepts into compelling visual experiences that build confidence and support decision-making. Our extensive BIM library and collaborative modelling capabilities enable seamless integration into project workflows, helping teams work smarter, coordinate more effectively and bring designs to life with greater certainty.



Digital visualisation and rendering

- Digitally modelled landscapes and project environments
- Fully integrated 3D project visualisations
- High-resolution digital rendering
- Fully animated digital flythroughs
- Photo-realistic representations of completed projects
- Rapid comparison of product and design options
- Content suitable for public consultation and planning submissions
- Reducing the need for costly external visualisation services



BIM

- Free direct access to BIM product libraries
- Extensive BIM model library covering commercial product ranges
- BSI Kitemark accredited models with industry-standard COBie data
- Fully compliant with UK BIM Level 2 requirements
- Support for digital product selection, specification and modelling
- BIM collaboration and sharing of digital assets across project teams
- Direct integration of BIM data within project models
- Streamlining the design, construction and delivery of complex projects
- Identification of over-engineering and potential design risks
- Supporting efficient site programming, build sequencing and delivery scheduling



Behind every smooth delivery, there's thinking most don't see. A team of engineers, designers and problem-solvers working alongside you to shape practical, buildable solutions.

MaDE to save time and money.

MaDE to reduce risk and carbon.

MaDE to deliver lasting impact.



Contact us to find out more, about how we can collaborate to ensure the success and lifespan of your project

Email: MaDE@marshalls.co.uk

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