

Shaping the Skyline

ISSUE 1

BORN IN THE SOUTH, SHAPING THE UK

SMD has been based in the south for over 30 years, and is still family-run today.

THE COMPLETE SOLUTION ALL UNDER ONE ROOF

Managing project risk by combining multiple packages together, gives added value and less contract risk.

CONFIDENCE IN YOUR SUPPLY CHAIN

With today's time critical site programmes sub-contractor engagement is critical.



SMD[®]
Structural Floor and Roof Solutions

 SMD Ltd

www.smdltd.co.uk

VOIDSAFE™

Safer Sites

VOID PROTECTION

VoidSafe™ Protection System can significantly improve site logistics and access throughout the floor area

Can be installed as part of the deck operations



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Shaping the Skyline

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Born *in the* South, shaping the UK

SMD, specialists in composite metal flooring & roof decking

The south coast is known for its stunning beaches, cinematic landscape and its rugged Jurassic coastline – what's not to love? That's why SMD has been based here for over 30 years. Still family-run today, we provide our clients with market-leading products and services on projects nationwide.

Since we began we've seen many changes, in our industry, client services and scale of projects we deliver, but one thing remains constant – our commitment to delivering quality and professional

customer service to help our clients deliver on their builds every time.

Born on
9th February

1987

UK and International
Offices

9

We appreciate being based on the south coast could seem like it has logistical issues, but to ensure this has no impact on our clients, we have strategically-located construction hubs and site teams throughout the UK, and with our

manufacturing plant based in Leeds we are ideally placed to service all your projects. Although we have the scale of operation that handles projects worldwide, we'll never compromise on giving each of our clients a personal service – which is why many of them have been with us for years.

From our manufacturing processes to the level of Health & Safety we deliver on site, quality is our primary focus. Throughout the years our client offering may have changed, but our passion for delivering this quality hasn't. We've achieved

Sustainability Safety Quality Consistency

Inset: Durdle Door is a natural limestone arch on the Jurassic Coast near SMD's Head Office in Dorset.

this by keeping the whole process from design to manufacture and installation in-house and under our direct control.

To the naked eye many people would struggle to differentiate our products from the competition's, so we have had to ensure product quality is a given and have focused on client delivery to set us apart. We've done this by making sure every member of the team is an expert in their field, from office to site, to ensure they all cast the same meticulous eye across their aspect of the project to deliver a superior result every time.

In an industry where health & safety is critical, our commitment to it exceeds most clients' expectation, through our procedures, paperwork, testing and site monitoring. A big aspect of this is our commitment to training and development. Through our dedicated training manager, we keep our site and office staff fully up-to-date with the latest knowledge, certifications and compliance throughout their career development with us.

With some of the best industry knowledge, training and equipment, it's no wonder that we're considered

leaders in our field. Our end-to-end service which includes invaluable technical support from design to site delivery which is second to none, so whether you have a quick query relating to a product or need to speak to one of the team regarding a complex design issue, we're here to help.

Our exceptional reputation and market position are only possible from years of credible results and delighted clients. We prove our value time and time again and can't wait to see what the future holds - we hope that you are a part of it.



On a MISSION



Shaping the skyline, building your future

Companies will typically produce poor results and flounder if they have no clear understanding of where they want to be in the future – if you do not know your destination, what hope have you got of getting there?

Companies that spend the time and effort to carefully develop their Vision, Mission and Values and integrate them into their strategy will find that it helps to shape not only theirs but also their staff's understanding of the journey ahead, along with the personality of the brand and the ways in which they want to work.

Your Vision statement must serve as a clear guide and a positive goal for choosing current and future courses of action of the company in the wider picture. This optimistic ambition, must motivate and energise each and every member of staff to perform at their very best, focusing their

efforts and aligning their daily work to the company's short and long-term goals.

Your Mission statement must be a written declaration of the business's core purpose and focus. This differs from the Vision, as your Mission will be something you are looking to accomplish whereas your Vision is something to be pursued, in other words, cause and effect. It's put in place to give direction and help serve as a filter as to what's important and what's not. When business decisions need to be made, from the everyday to those with a wider impact, it's this statement that will be referenced as a test to see if the proposal fulfils the business's promise. Also if

communicated correctly it will give a sense of direction for the business as a whole.

With the 'why are we doing this' and 'what are we trying to achieve' covered, you now need to know how you are going to get there. Your Values will be a key part of this, ultimately, they need to become the essence of the company – what you believe in, what you stand for and the reasons why stakeholders will want to work with you. A good rule of thumb we use in our business, if you are trying to resolve an issue and are not sure how to approach it, refer to your Values they should always guide you in the right direction.





SMD®

Structural Floor and Roof Solutions

To build innovative, inspirational skylines that secure the future of our employees, customers and stakeholders without compromising our values.

After taking the time to craft these strategic elements it's no use thinking they will embed themselves, this will take time and commitment from all involved. Their visibility to employees, stakeholders and customers is vital, so don't keep them a secret, be proud of them. Make sure they're included in employee handbooks for new

and customers get to know your business and gain insight into what working with you could be like. They will help to reinforce how you work, why you make certain decisions and ultimately help to create relationships. So, with this in mind, what are our Vision, Mission and Values?

Inset: SMD Value Statement

SMD'S MISSION

TO BE THE UK'S LEADING PROVIDER OF STRUCTURAL FLOOR AND ROOF SOLUTIONS TO THE CONSTRUCTION INDUSTRY, ALONG WITH EXPANDING OUR BRAND AND PRODUCTS INTERNATIONALLY, ENSURING A FOCUS ON SAFETY, INNOVATION AND THE ENVIRONMENT.

starters and that you regularly revisit them during meetings, briefings and appraisals. Remember, your staff are the ones on ground driving their delivery, so it's important that they're on board with them and understand them right from the start. Including them on relevant marketing material will help potential clients

With each member of our staff living these day-to-day, we work as a collective to drive the business forward to achieve our shared goals. We think it's important that our clients know exactly who we are, where we are going and the values we will live by on that journey.



Technical Tips

What are shear studs for?

The increased performance of composite beams in stiffness and bending resistance, allows the construction of longer spans and shallower floors when compared to non-composite methods. This could allow smaller storey heights, more floors for the same building height, more flexible column-free areas and increased opportunities for services.

Composite beams are typically hot rolled steel sections that act compositely with a concrete slab. Shear studs are required to transfer force between the steel section and the concrete slab. The studs are welded to the beam, normally through the deck sheet. This enables the concrete slab to act like a large top flange to the composite beam when the concrete has hardened and creates a stronger section to support the loadings applied to the finished slab.

www.smdltd.co.uk/shear-studs-and-composite-decking/



The complete solution

With many different components contributing to the final construction of a building, it can be tricky to juggle different trade contractors and associated logistics. Having a project split into many small packages requires additional effort and organisation compared to achieving the same goal but using fewer suppliers. Having multiple trades working simultaneously can often lead to miscommunication and

as a result, delays on the schedule. Integrating services into one package can take some of the pressures of communication, programme and health & safety stresses away. So, what are the risk-reducing benefits of having a single source solution?

Having all the logistical elements under one roof allows the package to retain an element of flexibility that would otherwise not exist. No matter how much planning goes into a build, there are always unforeseen circumstances that crop up (usually at the worst time). A combined package means that the supplier can react and adapt quickly without having too much of a knock-on effect to programme. Working as a single unit helps to keep things on track and maintain progress on site.

Contracts Undertaken

8k+

N° Tender's Priced

120k

Left: Regents Place,
London

With teams from different suppliers relying on each other to keep to time, the difficulty of managing the project can quickly spiral if there is a delay on one stage. Separate sub-contractors won't be working completely cohesively so you'll have more re-organisation and coordination to undertake. With fewer suppliers, a combined package and the already mentioned agile working, the project risk is significantly reduced as the internal teams can work together to overcome delays.

SMD REMOVES THE HASSLE OF CHASING SUB-CONTRACTORS.

With fewer parts of the programme coming through a single point of contact at SMD, it removes a lot of the hassle and administration. Instead of having to send out multiple progress reports, or chasing a number of sub-contractors, it's all done through the same team. Our team will thoroughly know your project down to the last detail, so they'll be able to help facilitate a successful end delivery and be on hand to help if there are any problems along the way.

It's fair to say over the 10 years we've been concreting over decking, we've learnt a thing or two. Our combined package consisting of safety netting, decking, installation of shear studs and concrete has been chosen by clients time and time again. They know we're experienced and more than competent when it comes to taking on the responsibility of any project – whether it's upper decks or ground floor slabs, we've been in the business for over 30 years. A project shrouded in risk doesn't result in a quality end product, so we're dedicated to making it feel as hassle-free, safe and cost-effective as possible.

WHAT DOES SMD OFFER:

- ▶ Fall Arrest Systems – Safety netting and airbags
- ▶ Supply Only / Supply and Fix of composite metal floor deck
- ▶ Supply Only / Supply and Fix of structural roof profiles
- ▶ Supply Only / Supply and Fix of shear studs (On site or factory fitted)
- ▶ Ground and upper floor concrete slabs
- ▶ VoidSafe™ Protection



Log on and access

TGN ONLINE

Design information covering the relevant and most up to date British Standards, Eurocodes and industry guidance documents including: BS5950, EC4 and SCI P300.

Technical Guidance for H&S,
Floor and Roof Deck, Studs and Concrete

 **SMD**[®]
Structural Floor and Roof Solutions

 SMD Ltd
www.smdltd.co.uk/T1

IT'S NOT JUST CRINKLY TIN

On its own, composite steel decking is known by many in the industry as 'crinkly tin', a slang term originating from the sheeting used on farm buildings in the past – however there's much more to it than that! The profiles are designed with precision to ensure that they perform with the concrete seamlessly to form a structural floor.

When combined with poured concrete that simple 'crinkly tin' becomes an integral part in any structure and means that the build will achieve the right load and fire rating and fulfil the demand of the building use. Used for large-scale builds such as stadiums, hospitals, car parks and commercial buildings, steel decking offers both structural flexibility, as well as programme and cost savings, when compared with more traditional forms of construction.

Concrete works with the steel decking to create the composite slab, with the composite steel decking used as tensile reinforcement. This 'two birds with one stone' approach is just one of the many benefits of this type of construction. Overall project time is reduced as this method is more rapid than others, and it also acts as a cover for other trades that are working simultaneously and, once fixed, the decking provides a safe working platform during the construction phase. Cost is another huge benefit. Not only are staffing costs reduced due to the speedy construction, but there are also savings to be made from reduced loading and foundation costs for

the building. As the resulting slab is shallower than other methods of construction like pre-cast planks or RC frame, there is less weight and foundation costs can be reduced. Used with composite beam construction, it's also a versatile way of working as it reduces the steelwork frame weight and can be incorporated into the most complex designs with little-to-no waste. As the steel decking is all manufactured with the same profile, they stack neatly on top of each other which means that minimal site storage is needed, along with a reduction in transport.

Our range of composite steel floor decking offers flexibility to suit your project specifications and can be available in gauges ranging from 0.7mm to 1.25mm. We have 350 or 450N/mm² minimum yield strength options available and some of our range benefit from our enhanced HD coating, to offer greater resistance against corrosion.



Technical Tips Durability

One important factor to consider when designing a composite floor using steel deck, is the environment the deck will be exposed to during its lifetime. This is especially critical in aggressive environments where the deck may be exposed to humidity, airborne pollutants or chemical agents.

For more information on this topic, refer to the SMD blog, article 'Durability' and TGN Online, TGN Section 7.4 – Durability.

www.smdltd.co.uk/durability/

Export Orders

£10m

UK Floor Deck m²

20m

WE AIM TO MAKE DECKING THAT ENHANCES YOUR PROJECT AND LEAVES YOU FEELING THAT ALL REQUIREMENTS ARE MET.

There's complex engineering behind each of our products and services as the high performance of this structural part of the building is so vital. We continue to innovate and design products that our clients want and need. At SMD we always listen to feedback, so if you feel that we've missed something in our current range then please get in touch – we'd love to hear from you.

BENEFITS OF METAL DECKING:

- ▶ Rapid speed of construction, reducing overall project time
- ▶ Provides the tensile reinforcement requirements of the slab
- ▶ Composite construction reduces steelwork frame weight
- ▶ Reduced foundation costs, due to reduced loading
- ▶ Provides a cover for following trades
- ▶ Minimal site storage requirements
- ▶ Easily installed into complex designs, with minimal wastage
- ▶ Can achieve up to 4hr fire rating for the slab

Below: The Scalpel, London



Covering all bases

They say that a jack of all trades can be a master of none, but when it comes to creating a range of products to suit clients' needs, we don't believe that to be true. Businesses thrive when they constantly innovate and adapt their range to industry demand. Through in-depth research and analysis, companies can adapt and use their expertise to come up with extensions of their current offering.

When it comes to choosing your suppliers, make sure you take a look at their complete offering. Although it may feel like you're putting all of your eggs into one basket, there are rewards for those that choose only a couple of suppliers for all of their site requirements.

Roof Deck m²

100k

Roof Products

8

As well as a greater price certainty, it also means that you can build up a solid and easy-to-maintain relationship – while benefiting from better supplier response times. This is important if you want to continue to receive competitive rates, and you could even end up working collaboratively and have a hand in their development and design of new products.

We're constantly adding to our range of products and with the relatively recent addition of roof decking to

WHETHER IT'S PERFORMANCE OR FINISH, WE BELIEVE IN GIVING OUR CLIENTS SOLUTIONS TO THEIR PROBLEMS.

our offering, we're able to provide our clients with a full suite from floor to roof. With added depths and finishes, our complete range of roof decks range from 30mm to 200mm, and as we continue to grow this range we'll be adding aluminium and perforated options to our deep roof deck too.

We encourage our clients to come to us for their total composite decking requirements build so that we can make sure that the process goes as smoothly as possible. By opting for the complete solution, we can offer high quality products, expert site staff and trusted Health & Safety to ensure you deliver a successful end build.



Technical Tips

Thermal Mass

The fabric of a building can absorb and store heat generated by solar gain, equipment use and human activities; this is known as 'Thermal Mass'. Used effectively in the heating and cooling design of a building, it can reduce the requirement for heating and air conditioning leading to savings in carbon and operational costs during the building lifecycle.

The fact that heavyweight concrete structures such as old churches and castles remain cool on a hot summer's day has led to the common mis-conception that more concrete equals better thermal mass performance. The reason such buildings remain cool is due to the small number of windows (reducing solar gain) and light use reducing heat generated from occupants. So, nothing to do with the mass of the concrete structure at all!

www.smdltd.co.uk/thermal-mass/

Inset: School in Bishops Waltham



Curing your **PROBLEMS**



*Below: Concrete Pour
in Coventry*





To those that are not upper level construction specialists, pouring concrete on suspended upper floor decks is considered no different to pouring a slab on the ground, however, they couldn't be more wrong. There is a lot more to it than simply pouring it on and letting it dry, with many considerations to be made – what profile is it on? How is it going to be poured? What is the concrete mix? What are the spans and acceptable construction loads? Without proper knowledge of the nuances of pouring concrete on upper floor decks, it could lead to disaster both during construction, and after completion. So, what could go wrong?

Pouring concrete on upper floor decks must be done differently. If a supplier who is used to doing groundwork and doesn't have experience of pouring on upper floor decks is employed to carry out the installation, they might typically act in their usual way. They might overload the deck with an overly large team or use kit or methods that are not suitable for upper floor decks. With extra weight on the structure, it could lead to issues with the final structure and huge Health & Safety risk during construction.

Deflection is also an issue that might not be considered by someone who does not have as much knowledge of pouring concrete on upper floor decks. As the extra weight of the wet concrete hits the decking, it moves (which doesn't happen on the ground), so this influences the surface and flatness tolerances and can have a huge impact on the end

result. It can also be disappointing if you have chosen a specific decking that fits the design and specifications of the project, and then sub-standard concrete is poured on top – which could have an effect on the integrity of the structure.

Concrete m² Per Year

200k

Avg Pour Per Week

3.2

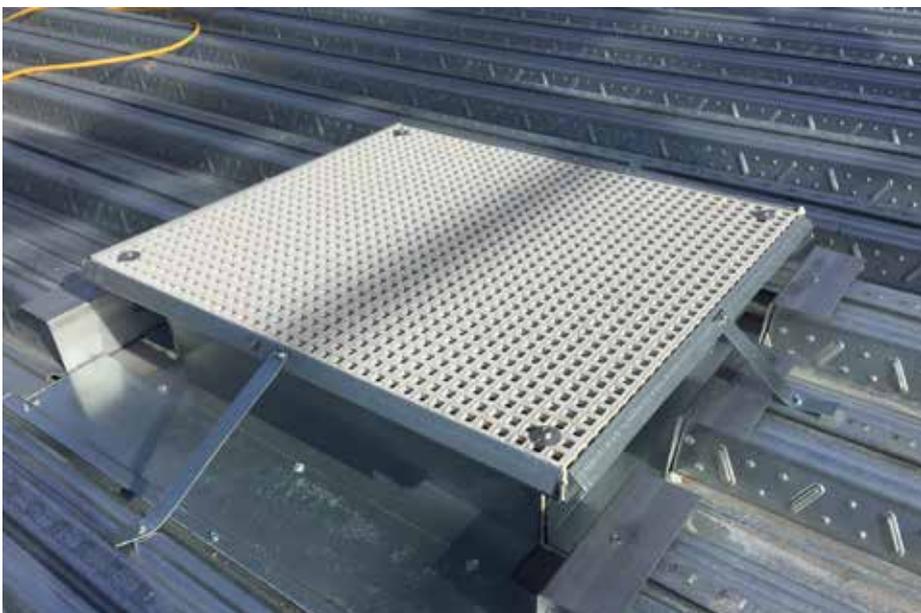
Suppliers should know their products through and through, and this is especially true at SMD, we're more than a metal decking company as we have years of experience in concrete too – that's why placing the concrete package with us is the smart choice. Our site staff receive the best quality training which means not only do they understand the implications of pouring concrete on upper floor decking, they can also handle and adapt to changes in the schedule, as well as any issues that may unexpectedly occur.

**ORDERING FROM
A COMPANY YOU
KNOW AND TRUST
MEANS THAT
YOU CAN FEEL
CONFIDENT IN THE
END RESULT.**

If you're already choosing SMD for your steel decking needs, then why not order your concrete installation from us too??

MIND THE GAP

**INNOVATION
ISN'T SOMETHING
TO DIP INTO NOW AND AGAIN,
IT SHOULD BE A
CONTINUAL PROCESS
WITHIN ANY BUSINESS**



*Left: VoidSafe™ installed on site by SMD.
Below: Timber shuttering by following trades.*

Those of you that are future gazers will not only improve their current product offering, but they'll also use their technical knowledge to create products and solutions that fulfil the needs of their customers – even if those customers don't know they need it yet. Innovation doesn't have to mean that there is a constant stream of new products, simply adapting and evolving an existing offering to make sure it better suits the needs of those using it in their projects.

Although there are plenty that boast about the construction industry being at the forefront of manufacturing innovation, it can at times feel stagnant, and often there hasn't been significant change from the way things have always been done. What's the reason for this? Well it could be argued that barriers of innovation such as investment, knowledge sharing and regulations can all hinder efforts to progress. As such, in a risk-averse industry, it's essential that manufacturers take strides to push emerging technologies and stay curious about what's next for them.

SMD recognises the need to keep shaking things up to ensure that things are safer and faster, yet more

cost effective within the construction industry. Providing a solution to site void protection, the VoidSafe™ solution was developed to keep everyone safe and can be used as both a temporary and permanent solution. The grid flooring system is not only slip-resistant, lightweight and resistant to chemicals and corrosion, it also eliminates the need for void handrail protection systems that can act as obstructions and slow the process down. Before concrete these panels act as the perfect void protection, and once it has been poured, they can protect the void when the building is in use. What's more, studies show that VoidSafe™ also reduces additional trade costs so it's a budget-friendly long term solution too.

Health & Safety is incredibly important to us, so you can feel

THE VOIDSAFE™ SYSTEM CAN BE DESIGNED TO YOUR SPECIFICATIONS, NO MATTER THE COMPLEXITY.

confident that everything will be checked thoroughly for quality assurance. Site safety should be a priority for every build and with innovations like VoidSafe™ in the market it means that dangerous situations can be managed in a sustainable, cost-effective and non-disruptive way. With a wealth of technical knowledge driving us forward, we're able to develop products like this, that not only result in a successful build, but also keep those working on site safe.



Up a creek *without a* paddle

Whether you're in the early design stage, planning a programme of work, or you're on-site, it's a common occurrence that you will need further technical information or guidance. That technical expertise could be required immediately, and if you don't have it to hand then it can create delays, cost time and resource or result in mistakes. Hiring a supplier or sub-contractor that can provide a wealth of in-depth technical support right from the initial design stages, through to build can put a stop to some of these headaches.

Feeling supported by those in your supply chain not only fosters a sense of camaraderie and togetherness

for the wider team, but also boosts confidence. You can rest assured that should you need expert assistance or knowledge that you can gain access to it quickly and easily. Problems on-site could be avoided with the correct design, so having the resources to make sure that's correct from the get-go is incredibly important. As constructions become increasingly complex and demands for project performance escalate, it's important you know that you're in the right hands when it comes to technical support.

We have over 30 years' experience of our products and the business of construction, so simply put – we know our stuff. From rigorous staff training to setting the standard as part of industry committees, we've

become renowned experts helping to encourage the industry to move into the future.

Despite this, we don't rest on what we've learnt in the past – in fact we strive to find out about the most cutting-edge processes, products and methods to ensure that we're not only keeping up with the industry, but we're leading it. Innovation is a big part of what we do – not just in terms of our products, but also in the way we support our clients.

Putting this intelligence into innovative products wasn't enough for us, we wanted to be able to impart this knowledge on others too. So, we put in place our exceptional technical support and created the Technical Guidance Notes (TGN Online) on our



website. This hub, accessible to those that register, provides greater detail into our products, their specifications, installation and how everything can be done with our business values front of mind. Easily accessible, this knowledge can enhance the fundamentals of construction and that newly gained experience can then be transferred throughout the industry. If you are experiencing a situation that needs a little more detail, our team are only a phone call away.

OUR TECHNICAL HELPDESK NUMBER GOES DIRECTLY TO THE RIGHT PEOPLE, IN THE RIGHT TEAM TO ANSWER YOUR QUERIES.

What's more, we provide software that helps from the initial design stages of any project. Downloading our Elements® Design Software can help with integrating our products into your slab or roof design. It keeps you on track with practical implications and provides the user with suitable deck profiles. We aim to empower our clients as much as possible, and when they're in need of assistance we're always there. If you need us to impart knowledge to the team, then we'll be happy to. We have a variety of modules that we can bring to your workplace and present to ensure that your team are up-to-speed with the latest innovations. We believe that the job doesn't begin and end with contracts, it's continued technical support and guidance that will help spark change in the industry for the better.

Going above and beyond is not common with some contractors who simply buy from a separate supplier and then provide little-to-no aftercare, but this leads to delays in response times which has a greater impact in the long-run.



Download

ELEMENTS® SPAN CHECK

This free-to-download app is a calculation tool enabling users to run simple span checks on our range of floor deck profiles

Span information at your fingertips
Available for Apple and Android devices

 **SMD**®
Structural Floor and Roof Solutions

 SMD Ltd
www.smdltd.co.uk/app

Confidence in your supply chain

Time is money, and as the pace picks up it's essential to engage sub-contractors that have control over the supply of goods to site. Without these heroes on your side, delivery and service won't be up to scratch which often results in late deliveries, lapses in progress and increases in costs. Quality suppliers come with quality products and knowing where your products come from, and any issues that you may encounter in an honest and transparent way is actually good for clients.

Operating a lean, 'just-in-time' approach does have its advantages, especially for those with minimal storage. However, it also increases

the risk of delays due to late deliveries. Working with a reliable supplier means that you'll have greater peace of mind that if anything does go wrong they'll let you know and propose a solution.

There are occasional outside factors that can't be controlled, no matter how prepared you may be – unpredictability is the only predictable thing! If a client alters their design mid-build or the weather postpones an activity, it helps to have a sub-contractor that can roll with the punches and work in an agile way to accommodate those changes. Suppliers that buy the products from manufacturers won't have the same control or reaction time as those that manufacture the

goods themselves – so it's important to know the way they work before you sign the contracts.

OUR PROCESS GUARANTEES THE BEST QUALITY.

At SMD we're in direct control of our product range. Our complete end-to-end process not only guarantees that we're using the best quality decking in your build, but also means that we can press pause if we need to. We see our clients as our partners, so we'll do whatever we can to ensure a smooth and successful build without any hiccups.



Left: SMD manufacturing facility near Leeds.

SMD MANUFACTURING BENEFITS:

- ▶ Direct control of the manufacturing process
- ▶ Reduced lead in periods
- ▶ Proactive approach to late changes
- ▶ Excellence quality management

Can you afford to Compromise?

Below: Herron Quays, London



Technical Tips

Deflection and surface flatness

Deflection is defined as; the degree to which a structural element is displaced under load. All elements deflect so it is important to consider the magnitude of this deflection in a building system. The issue of deflection is more prominent when tight tolerances or deviations from datum are specified or required.

The total deviation from datum of the underside of a composite deck slab is dependant on the deflection of primary beams, secondary beams and deck. The sum of these combined could result in deflections in excess of 40mm which means it is not practical to specify tight flatness tolerances to the finished slab surface.

For more information on this topic, refer to the SMD blog, article 'Deflection of composite steel deck slabs' and TGN Online.

www.smdltd.co.uk/deflection-of-composite-steel-deck-slabs/

It's no good spending precious budget on the best products in the market if they're then going to be installed by someone doing a less-than-perfect job. It can be frustrating for those who have spent time during the design phase, carefully selecting the components of their build from manufacturers who have created something well-made and fit-for-purpose, for the installation to then have an effect on the performance.

It's fair to say this issue is relevant across many aspects of construction, which is why

employing experts in installation will help you to achieve a great build and meet safety standards at the same time. It's essential for many reasons to get it right first time, which is why working with an installer who has an in-depth knowledge of the specific product from their own company will be able to do the job properly. Not everyone in the industry works to the same conscientious level and this is often reflected in the price – so if it seems too good to be true, it probably is.

At SMD we're governed by our core business values, not just when we're designing and manufacturing our



products, but also installation too. We take them very seriously and it's why we've been able to provide our customers with the high-quality service that we're known for.

OUR EMPLOYEES ARE VETTED EXPERTS AND KNOW THEIR CRAFT INSIDE OUT.

We have one of the largest directly employed labour force in the metal decking sector meaning we have control and influence on our installation teams imparting our Vision and core Values on to our site teams. Each of our employees is a vetted expert and know their craft inside out to ensure that they're installing our products with the same level of quality with which they're designed and manufactured.

If you're looking for a partner for your next build, make sure you're looking deeper into the company values and working practices rather than basing the decision on price. Together, we're working towards the creation of safe, long-lasting buildings that will be fit for purpose, so, join us as we campaign for installation excellence in the construction industry.

SMD'S SITE TEAMS:

- ▶ Directly employed site teams
- ▶ Dedicated in-house Training Manager
- ▶ Leaders in developing safe and efficient site operations
- ▶ Active members of the BCSA, UKMDA and FASET



Lives MATTER

Every worker deserves to come home safely from their job, and whether they're in building, refurbishment, installation or demolition, they're facing high-risk situations every single day.

It's the unfortunate case that **22% of fatal injuries and 10% of major injuries are associated with construction workers. You may think that this is because there is a relatively large number of them, however this type of worker only accounts for 5% of the total UK workforce. ***

No matter the length of project or phase that a construction worker is present for, they should always take responsibility for safety on-site. Not only for themselves, but for co-workers and other trades to make sure that protocols are followed to reduce the risk of injury or fatalities.

Although some of these accidents may happen due to no fault of the workers, it can be argued that with the right Health & Safety awareness, training and procedures in place, some of these could have been avoided. Competence in construction means more than basic courses each worker attends and revisits every time laws and standards are updated – it means ensuring that everyone has the right training, experience, knowledge and monitoring as well.

For SMD, Health & Safety isn't just a box that needs ticking, it's ingrained in our business. We take it very seriously and ensuring that our safety measures are market-

leading is of paramount importance. We implement carefully considered processes and quality products to cover a number of different circumstances, not just for our own teams, but for those working in other trades on the same sites.

At SMD we are active members of FASET ensuring that not only our fleet of safety nets are maintained to the highest of standards but also all of our installation teams are qualified and competent in the correct

installation of this safety critical activity. We provide comprehensive risk assessments and provide the best PPE kit, no matter the task in hand, to ensure that the site is safe for everyone present. We're meticulous and have looked into risks from both large and small sites, constantly adapting our Health & Safety measures and liaising with clients at every step.

*Source: <http://www.chsg.co.uk/news/health-and-safety-in-the-uk-construction-industry/>



Life after

BREXIT

BREXIT HAS HAD AN UNDENIABLE EFFECT ON THE WAY MOST BUSINESSES IN THE UK ARE THINKING

We're a small (but mighty) island and have been working beyond our own shores for centuries. For some, the umbrella of the EU may have seemed like helpful protection, for others, it may have hindered their practices. But no matter your stance, the decision to leave has been made.

As the construction industry prepares for a post-Brexit landscape, businesses need to be equipped with the knowledge and resources needed to go it alone. There's

still demand for both housing and commercial space which suggests that the sector isn't experiencing too much of a negative impact at this point in time. Despite this demand, low confidence within the industry suggests that there is preparation underway for conditions to get worse – with feelings around the uncertainty of the Brexit deal having a large influence in this. With concerns over material cost and labour also being a factor, it's difficult to judge how it will all unfold.

We may be nestled in a quaint Dorset corner, but at SMD we've been working on some exciting projects across the globe and see Brexit as opening up further opportunities in an expanding marketplace.

Our experience in the export process means that we're able to compete with some of the major players in the industry, helping us become the market-leading supplier of metal decking. From Cyprus and Egypt to Switzerland and the UAE, we've worked on some notable

high-profile projects such as the Paris Philharmonic, Burj Khalifa, JTI building Geneva, Ski Dubai and Oman Museum.

WORKING OUTSIDE OF THE UK IS A CHALLENGE THAT WE'VE FACED MANY TIMES.

Working outside of the UK is a challenge that we've faced many times, so much so that it no longer seems like one at all. We're used to working with diverse cultures, alongside international trades and

design teams, while still upholding our values that delivers quality results and delighted clients.

In a post-Brexit world, we'll continue to service our clients, both at home and across the globe, with the same friendly, professional and honest approach that we've always

done. The goalposts might move, but our dedication to our values will not. It may feel like uncertain times we're moving into, but as we encourage the construction industry to work as one, we can continue to facilitate positive changes and forge partnerships with our clients that will stand the test of time.



Above: S&F Contract undertaken in Geneva





High Performance **STRUCTURAL ROOF DECK**

Structural deck (tray) for all types of insulated roof systems including single ply membrane, double skin built-up system, standing seam, green roofs and asphalt.

8 Products Available
Ranging from 30mm to 200mm Deep



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 SMD Ltd

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Case Studies

This section provides a few examples of how we have helped shaped skylines around the UK and across the world.

- 30. THE SHARD
- 32. OLYMPIC PARK
- 34. CABOT CIRCUS
- 36. SOUTHMEAD HOSPITAL
- 38. TIARA TOWERS, DUBAI
- 40. WIMBLEDON
- 42. TRANSPORT MUSEUM
- 44. RNLI HEADQUARTERS
- 46. THE O2 ARENA
- 48. HEATHROW AIRPORT
- 50. CHELTENHAM RACECOURSE
- 52. BOARDMAN PERFORMANCE CENTRE

Contract Sectors



Case Studies

SMD Contract 5737 - **Aqua Shard**, located on level 31 of The Shard, serves innovative contemporary British cuisine and boasts breathtaking views from its restaurant, private dining rooms and spectacular three-storey high atrium bar.



Offices

The Shard

London

At 310m high (1,016 ft), is Europe's first vertical city. Its 72 inhabitable floors comprise a 26-floor office complex, six world-class restaurants, a 19-floor five-star Shangri-La Hotel and 13 floors of exclusive residential apartments.



Product

R51 TR80+

Contract Size

76,000m²

Value

£1.8m



Case Studies



Land preparation for the stadium began in mid-2007, with the official construction start date on 22 May 2008. Holding 80,000 for the **Olympics** and the **Paralympics**, the stadium was re-designed and opened in July 2016 with a capacity of 60,000 for its current tenants, West Ham United.



Stadia

Olympic Park

London

A sporting complex built for the 2012 Summer Olympics and Paralympics, situated to the east of London.

Work included a number of sporting venues such as the Stadium, Aquatics Centre, Velopark and the Media Centre.



Product

R51 TR60+ TR80+

Contract Size

60,526m²

Value

£813k

SMD Contracts;

5523 - Olympic Stadium

5677 - Media Centre

5742 - Velopark

5907 - Handball Arena

6488 - Aquatics Centre



smdltd.co.uk

Case Studies



SMD Contract 4609 - **Cabot Circus** comprises three multi-level pedestrianised streets, with apartment block areas. Its focal point, The Circus, has a large glass-panelled roof. The centre won the 2008 BREEAM Retail award for its sustainable design, including its natural ventilation, low energy lighting and rainwater harvesting system. The complex was designed by Chapman Taylor architects.



Retail

Cabot Circus

Bristol

The Cabot Circus development area contains shops, offices and a cinema. It opened after a 10-year planning and building project costing £500 million.



Product

R51 TR60+ TR80+

Contract Size

86,475m²

Value

£1.7m



Case Studies



SMD Contract 5888 - Called the **Brunel building**, after Bristol engineer Isambard Kingdom Brunel, it has 800 beds, 24 theatres, patient gardens, a public square, a helipad and visitors' multi-storey car park.



Hospital

Southmead Hospital

Bristol

The Brunel building, designed by the Building Design Partnership and built by Carillion at a cost of £430 million, was procured under a Private Finance Initiative contract.

The scheme brought all departments and services within the Bristol area together under one roof.



Product

R51

Contract Size

50,588m²

Value

£1.1m



Case Studies



SMD Contract 7555 (Supply Only) - At night, the **tower's** glazed panels are illuminated from within, creating a dramatic pattern on the city skyline.



Offices

Tiara United Towers

Dubai

Each tower rises 50 floors totalling 225 metres (738 ft) tall. The East Tower boasts a 5-star hotel spread over 35 floors with the West Tower comprising of office, conference and retail occupation. The façades of the towers are inspired by the concept of stained glass.



Product
TR80+

Contract Size
114,000m²

Value
£1.2m



Case Studies



SMD Contract 4693 - **Rafael Nadal Parera** made his first Wimbledon final appearance in 2006 but was beaten by Roger Federer. The outcome was repeated in 2007, again by Federer, before he won his first Wimbledon title in 2008. Wimbledon is the only Grand Slam event played on grass courts.



Stadia

Wimbledon

Centre Court, London

The Centre Court is the main court at the Wimbledon Championship, the third annual Grand Slam event of the tennis calendar. It is considered the world's most famous tennis court.

It incorporates the clubhouse of the All England Lawn Tennis and Croquet Club.



Product

R51 TR60

Contract Size

8,110m²

Value

£200k



Case Studies



SMD Contract 5335 - Designed by Zaha Hadid Architects and engineers Buro Happold, the new **Riverside Museum** opened on Tuesday 21 June 2011. All forms of transport are featured, from horse-drawn vehicles to fire engines, from motorcycles to caravans, even toy cars and prams.



Attractions

Transport Museum

Glasgow

Established in 1964 and initially located at a former tram depot in Pollokshields. In 1987 the museum was relocated to the city's Kelvin Hall, then moved to its current location in the Riverside Museum building at Glasgow Harbour.



Product

R51 TR80

Contract Size

3,000m²

Value

£80k



Case Studies



SMD Contract 6702 - The Trent class (pictured) was the first all-weather lifeboat capable of 25 knots and a range of 250 nautical miles, setting the precedent for the **RNLI** fleet.



Offices

RNLI Head Quarters

Poole

Poole Lifeboat Station is the base for Royal National Lifeboat Institution (RNLI) search and rescue operations at Poole, Dorset in England.

The first lifeboat was stationed at Poole Harbour in 1865 and this new boat building centre was opened in 2016.



Product

R51 TR60+

Contract Size

3,253m²

Value

£35k



Case Studies



Performance by **Coldplay** at the O2 Arena in London on December 9th, 2011 where they played to 20,000 fans. SMD have worked on various sections of the complex since 2003, with the most recent development of Project Mint (2017) and Project Loop (2018), forming a retail and leisure area.



Attractions

The O₂ Arena

London

The O₂ is again in the midst of a transformation as a top-end retail village takes shape inside of the vast fabric-covered structure. A large entertainment district on the Greenwich peninsula in South East London, including an indoor arena, a music club, a cinema, an exhibition space, bars & restaurants.



Product

R51 TR60+

Contract Size

20,877m²

Value

£573k

SMD Contracts;

2541 - Millennium Dome

4436 - Sports Bar

4593 - Millennium Dome

7649 - Project Mint

8086 - Project Loop



Case Studies

Terminal 5 is designed to handle more than 35 million passengers a year. Opened in 2008, the main building is the largest free-standing structure in the UK. Terminal 5 is currently used exclusively by British Airways and Iberia. The building cost £4 billion and took almost 20 years from conception to completion, including the longest public inquiry in British history



Transport

Heathrow Airport

London

Also known as London Heathrow (LHR), it is a major international airport in London. Heathrow is the second busiest airport in the world by international passenger traffic. In 2017, it handled a record 78 million passengers.



Product

R51 TR60 TR80

Contract Size

492,978m²

Value

£10.5m

SMD Contracts;

5887 - T2 Terminal – 130k m² / £3.0m

6053 - T2 Concourse B – 31k m² / £750k

7518 - T3 Flight Con's -7.5k m² / £250k

5861 - T3 Baggage 24k m² / £650k

3535 - T5 300k m² / £3.6m



Case Studies



SMD Contract 6831 - The new grandstand, **The Princess Royal Stand**, was officially opened by the Princess Royal on the first day of the Open race meeting on 13 November 2015. The ground floor of the stand houses a new bar named after Lord Vestey, who was chairman of Cheltenham for 21 years until 2011.



Stadia

Cheltenham Racecourse

The Princess Royal Stand

The £45m redevelopment at the course includes restaurants, bars and a new Royal Box. The 6,500 capacity grandstand replaces an old building that was built in the 1920s.

The new stand was on time and on budget.



Product

R51 Concrete

Contract Size

9,126m²

Value

£470k



Case Studies



SMD Contract 7744 - At the heart of the **Centre** sits the UK's first cycling-specific wind tunnel offering cyclists of all abilities the chance to explore aerodynamics, position and performance in a way previously reserved only for elite level athletes and teams.



Retail

Boardman Centre

Evesham

Based on the edge of the Cotswolds, the 18,000 sqft Boardman Performance Centre is a World Class facility, offering best-in-class services from industry specialists in physiological fitness, function and health, bike-fitting, positional biomechanics and aerodynamics.



Product
TR60+

Contract Size
831m²

Value
£16k







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