



How engineering consultancy BWB is using BSI verification of BIM Level 2 Design & Construction to drive new business

“BIM verification showcases our ability to guide our clients through the capital and delivery phases of projects, using a full array of BIM and digital solutions. Verification by BSI provides us with a credible recognition of our BIM and Digital capabilities.”

Dave Peacock,
Associate Digital Lead – Buildings & Built Environment, BWB Consulting

At a glance

Engineering and environmental design consultancy BWB has achieved BSI certification to building information modelling (BIM) Level 2 Design & Construction, in accordance with PAS 1192-2:2013 Information Management for the capital/delivery phase of construction projects as Tier 1 Lead Designer.

Verification by BSI demonstrates that BWB complies with BIM Level 2 requirements, putting the company in a prime position to tender as either Tier 1 lead designer or as a Tier 2 supply chain partner for BIM Level 2 government contracts and commercial projects.

PAS 1192-2 verification:

- Shows compliance with public sector ‘condition of contract’ requirement for BIM Level 2 Design and Construction
- Provides reassurance to clients of BIM Level 2 capability
- Strengthens business credentials, both as a Tier 1 lead designer and as a Tier 2 supply chain partner
- Drives digital transformation and business efficiency
- Improves client communication and supply chain collaboration • Reassurance for commercial and retail customers
- Differentiates the company, creating competitive advantage
- Underpins business growth.



BSI Case Study: BWB Consulting Ltd

Certification: PAS 1192-2 Verification

Background on BWB

BWB is one of the UK's leading design engineering consultants. Founded in Nottingham in 1990, and now with some 300 employees in seven UK offices, it is set to embark on significant expansion after becoming part of the global transport engineering giant CAF Group in 2017.

In response to the demand for faster, cheaper solutions in the construction industry, BWB has embraced digitally-enabled technology as a better route to robust, reliable project delivery.

BWB specializes in structural, environmental, civil, mechanical and electrical engineering design, traffic and transportation, environmental planning, and flood risk, as well as BIM and digital solutions. For some clients and projects, the consultancy operates as Tier 1 lead designer, while for others it is a Tier 2 member of the supply chain. In both roles, it lists blue-chip companies and major public sector bodies among its clients.

Building Information Modelling (BIM)

Since April 2016, companies looking to secure UK Government building and infrastructure contracts have been required to demonstrate BIM Level 2 capability. BIM is a software-based process to ensure all the right information is available to the relevant parties, at the right time and in the right format, throughout the supply chain for large building and infrastructure projects. A suite of standards, including PAS 1192-2, which addresses the BIM requirements for the design and construction phase of a project, underpins it.

The process brings together all the components that make up projects in the development stage, creating a common language, shared knowledge and increased transparency between all the parties involved, from specifiers and Tier 1 contractors to subcontractors and suppliers in Tier 2 and beyond in the supply chain. BIM allows all parties to see in advance – and on an ongoing basis as the project develops – where any conflicts are likely to occur.

Why BSI certification?

BWB sees digital technologies opening up new horizons and driving improvements in the built environment, transport and infrastructure. As a result, it was a convert to advanced building information modelling long before the Government's BIM mandate.

In addition to needing BIM compliance for public sector projects, BWB found that its commercial clients were also increasingly asking the company if it was BIM-compliant and requiring it to complete detailed BIM capability questionnaires. As Dave Peacock, BWB's Associate Digital Lead, explains, "We needed verification of our skills and expertise in this area from a respected independent third party, rather than clients just taking our own assurance of our competency."

Certification by BSI that the consultancy adheres to the requirements of PAS 1192-2 Design & Construction offered that assurance to public and private sector clients alike.

BWB also wanted a way to differentiate itself from companies making unsubstantiated claims about their BIM capability. "There are various verification schemes offering this seal of approval, and some of them are not as robust as the BSI verification," says Peacock. "We weren't looking for an 'easy win', but wanted a thorough approach that would give a true reflection of what we could do. We chose BSI because we felt it has the strongest audit process."

The verification process

PAS 1192-2 verification certification by BSI is earned by firms that can demonstrate they have embraced new collaborative methods of project delivery, underpinned by digital technologies, to refine how they work and deliver complex infrastructure projects more quickly, safely and efficiently.

BWB's first step was for both Peacock and fellow Associate Digital Lead, Frazer Thorley, to become 'BIM Informed Professionals' by achieving individual BIM Level 2 certifications. They were then equipped to steer the firm, with BSI's support and guidance, to successful certification in October 2017.

The award followed a rigorous BSI assessment process, which verified that the company's processes are in accordance with PAS 1192-2:2013, BS 1192:2007 and BS 1192-4:2014. BSI's experienced assessors concluded that standardized processes and procedures for BIM have been developed and fully implemented across the business, and in all seven BWB offices in the UK.

As a Tier 1 lead designer, BWB's BIM role is as project information manager and BIM coordinator. The company's Tier 1 award verifies that it can define, manage and deliver all aspects of a BIM

level 2 project, from initial concept through design and construction to handover and beyond. Specifically, BSI's certification process involved verifying that the consultancy was:

- Advising clients of their responsibilities on a project with BIM requirements and helping them to produce an Employer's Information Requirements document
- Producing the BIM Execution Plan in response to the Employers Information Requirements
- Acting as project information manager to lead BIM on the project, undertaking BIM coordination and clash detection meetings, and verifying supply chain information
- Producing the Master Information Delivery Plan in response to the supply chain Task Information Delivery Plans
- Setting up and managing the common data environment
- Managing and assessing Tier 2 suppliers and their subcontractors.

BSI also verified that BWB was fulfilling its BIM Role as a Tier 2 member of the supply chain, including:

- Complying with the project BIM Execution Plan
- Appointing the internal Task Team
- Producing the Task Information Delivery Plan for each discipline.
- Complying with the common data environment
- Completing supply chain assessment forms and BIM capability documents.

Certification benefits

BSI verification certification provides reassurance to BWB's clients of its ability to use digital technologies to collaborate effectively with its Tier 1 clients and others across the supply chain, adding value to projects and cutting out waste and inefficiency.

"BWB has been working to PAS 1192-2:2013 and BS 1192:2007 processes for many years, and certification now formally recognizes us as one of the industry leaders with regards to BIM Level 2," says Peacock.

He concludes, "BIM verification showcases our ability to guide our clients through the capital and delivery phases of projects, using a full array of BIM and digital solutions. Verification by BSI provides us with a credible recognition of our BIM and Digital capabilities."

Contact us to find out how BSI certification can help your business make excellence a habit.

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