James Engineering Constructions Ltd
Wood Street North
Meadow Lane Industrial Estate
Alfreton
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DE55 7JR
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Email: contactus@jamesengineering.co.uk

Building Information Modelling (BIM) Policy

Scope

The document sets out the Building Information Modelling (BIM) Policy of James Engineering Constructions Ltd. It covers activities undertaken by James Engineering & support to suppliers throughout all office locations & operations.

Policy Statement

James Engineering are committed to the implementation of BIM & fully support its collaborative working to achieve effective & efficiently designed, constructed & managed projects. We will work with clients & the wider project team to achieve the benefits of an integrated BIM system.
We will comply with best practice & client policies and standards.

Purpose

BIM is relevant to many parts of our business & a number of disciplines including our engineering/design & we will support our external designers.

BIM is an integrated process that enables projects to be designed, constructed & maintained more efficiently & effectively. At its core is a single information source accessible by all parties involved in the delivery process. The common data environment allows early, accurate & efficient sharing of information between team members working on a collaborative project. The process ensures that information is only generated once & re-used as necessary by others thereby avoiding duplication of effort.

Responsibilities

James Engineering management are responsible for reviewing & approving the content & implementation of this policy.

Operating Company Directors are responsible for taking measures to help their staff act in compliance with this policy.

The James Engineering internal & external BIM teams are responsible for implementing our BIM Strategy.

All staff are required to comply with the policy requirements & share responsibility for our performance in implementing it.

James Engineering Constructions Ltd are incorporated in England Registration No: 07452977 Vat No: 320 2697 26

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Implementation

James Engineering will follow our established standard method & procedure when working on identified BIM projects & will use a file structure that is compliant with the Construction Industry Council work stages.

We will where required, provide appropriate software & training to enable our staff to work efficiently and effectively in a BIM environment.

Signed  Chris James – Managing Director

Date: 24th May 2021

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Designing Buildings

BS 1192

Is it widely recognised that poorly prepared and coordinated construction information is a significant cause of delay, expense and conflict. BS 1192 sets out a method for managing the production, distribution and quality of construction information. This includes construction information produced using CAD systems. It was originally based on work by Avanti & CPI. (http://www.designingbuildings.co.uk/wiki/Construction_Project_Information_Committee_CPI).

The first edition was BS 1192-5:1990, which was replaced in 1998 by the second edition, BS 1192-5:1998. Third Edition, 'Collaborative production of architectural, engineering and construction information. Code of practice' was published in 31 December 2007 and provided a more comprehensive code of practice that could be applied to 2D and 3D model-based information systems.

It applies to those involved in the preparation and use of construction information during the design, construction, operation and decommissioning of the projects. It applies to buidlings and infrastructure projects. The British Standards Institute (BSI) suggest that it might also offer useful guidance for software developers.

It establishes common methodologies for naming, classifying, layering and exchanging data when setting up projects that will involve collaborative working as well as setting out roles and responsibilities.

James Engineering work to the principles of BS1192. The exchange of data is managed through a Common Data Environment (CDE). This is the single source of information for the project, used to collect, manage and disseminate documentation, the graphical model and non-geographical data for the whole project team. Information in the CDE is classified as;

- Work in progress
- Shared
- Published
- Archive

On 1 July 2015, BSI published a revised version of BS 1192:2007 for consultation. As a result, in 2015, an amendment was published BS 1192:2007+A1:2015 Collaborative production of architectural, engineering and construction information. Code of practice (http://shop.bsigroup.com/forms/PASs/BS-1192-2007).

Relationship with other documents

This standard is intended to form part of a suite of documents (some of which are still in their PAS – 'publically available specification' stage of development) that includes:

- PAS 1192-2:2013. Specification for information management for the capital/delivery phase of construction projects using building information modelling.
- PAS 1192-3:2014. Specification for information management for the operational phase of assets using building information modelling.
- BS 1192-4:2014. Collaborative production of information. Fulfilling employer's information exchange requirements using COBie. Code of practice.
- PAS 1192-5:2015. Specification for security-minded building information modelling, digital built environments and smart asset management.