

Digital Construction & Modern Methods of Construction Brief and requirements for supply chain procurement

Tilbury Douglas has taken a leadership position in supporting the government initiatives to create built assets that improve delivery efficiency and whole life, environmental and social outcomes.

The government has issued key guidelines and mandates to this effect through, The Construction Playbook, Transforming Infrastructure Performance Vision 2030 and the Building Safety Bill. These prioritise the need to improve industry productivity, sustainability, strategic relationships, use of open & common digital operating environments, Modern Methods of Construction (MMC), manage & maintain asset performance & resilience using digital technologies and capture whole life performance data.

TDC has strengthened its capacity to deliver these outcomes by developing and implementing "**Connect**". Connect is a revolutionary ISO 19650 compliant technological ecosystem and information management platform.

An integral part of the Connect tool kit is "**Configurator**", a revolutionary web-based design tool where clients drag-and-drop from a catalogue of standardised components to virtually assemble their desired building. This will arm them with a novel opportunity to take a more active role in creating the building that meets their specific criteria and vision.

TDC will collaboratively engage its partners (specialist consultants, designers, suppliers, fabricators, installers) to improve the whole life value of the assets it creates utilising a "cradle to cradle" mindset.

This will generally require supply chain members to:

- Comply with Quality, Sustainability, Social, Environmental, Safety & statutory standards
- Engage in review of designs, specifications and products to support MMC, standardisation and digitalisation
- Advise on product technical characteristics, performance and selection
- Provide data to support Whole Life Cost and Whole Life Carbon assessments
- Provide technical data to support performance modelling of elements, eg – U Values, cold bridging, daylight, thermal comfort modelling, acoustic rating, fire rating, etc.
- Provide data for facilities management processes
- Provide component and/or element data in BIM format, namely, .rvt or .rfa (both Revit 2022 compatible) or inventor file or IFC.
- Support creation of harmonised specifications and "Kit of Parts" solutions for building components and elements
- Support development of solutions that minimise on site installation effort and maximise off site assembly opportunity
- Create a specification compliant digitally available component/element solutions menu
- Provide COBie data as required

Further Information Links:

[Tilbury Douglas Configurator](#)

[Tilbury Douglas Digital Construction](#)

[Tilbury Douglas MMC Capability](#)

[The Construction Playbook](#)

[Transforming Infrastructure
Performance Vision 2030](#)