

PD ISO/TR 16310:2014



BSI Standards Publication

Symbol libraries for construction and facilities management

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National foreword

This Published Document is the UK implementation of ISO/TR 16310:2014.

The development of PD ISO/TR 16310 was supported by the UK technical committee, B/555, Construction design, modelling and data exchange, in parallel with the development of the BS 8541 series.

A list of organizations represented on this committee can be obtained on request to its secretary.

PD ISO/TR 16310 provides a consistent and rigorous approach to the symbology for construction library objects. It is a resource for those wishing to adopt the methodical approach to the management of such symbols.

The principles in this standard have been implemented by the UK construction industry with the development of the BS 8541 Library objects for architecture, engineering and construction series to standardize how construction library objects should be prepared and how their quality can be assessed. It provides specific examples of the exchange of construction library objects in industry standard formats. More information regarding the content, representation and presentation of this PD ISO/TR can be found below.

'Content'

- BS 8541-1 covers principles and identification. It implements to the 'content' level in ISO/TR 16310, with emphasis to the 'type' and 'instance' distinction – see clause 5.1. It also offers information for 'classification' – see clause 5.2.

'Representation'

BS 8541-3, BS 8541-4 and BS 8541-6 taken together implement the representation level as seen in clause 5.1.

- BS 8541-3 covers 3D shape and standard geometric measurements.
- BS 8541-4 gives an overview on expected properties for 'specification and selection'.
- BS 8541-6 (in preparation) defines the properties needed to convey product and facility level declarations such as energy, environmental impact and waste rating declarations.

'Presentation'

- BS 8541-2 covers objects and 2d symbols, and the grammar of putting symbols together, with examples.
- BS 8541-5 (in preparation), discusses how multiple product parts and other components provided for context can be transmitted. For example a window lintel (overhead beam) product may be transmitted with a generic window and notional wall, but specific fixings and ties.

These two parts implement the 'presentation' level see clause 5.1.1. Together they address the issues relating to composing symbols both for an object and for an assembly of objects.