Definition of a Specification
**Project History**


  - Defines various types of specifications in terms that might be applied internationally and to various sectors of the construction industry

  - Classification
    - Stage (part of the construction process lifecycle)
    - Method of specification
    - Purpose of issue, both pre- and post-procurement

  - Definition: A specification is a written description of an object or thing. The description might be of the required properties for an object, if it hasn't been procured yet. Or it might be of the delivered and operational properties of an object, after it has been procured and put to use.
Project History

• Short version – Feb. 2015
  
  • Same as the long version
  
  • Definition: A written description of an object
Project History

• Mind map – Mar. 2016
Time for a new approach...

...back to basics
Requirements (objects) that describe a project:

- Shape/form
- Size/dimension
- Volume
- Relationships
- Physical properties
Requirements (data) that describe a project, e.g.:

• Specifications
• Cost
• Product data
• Etc.
Specifications

Non-geometrical requirements that describe the materials and products of a project, focused on:

- Quality
- Workmanship

Specs also address construction procedures
Example topics:
• General descriptions
• Administrative procedures, such as submittals, payments, temporary facilities
• Quality assurance requirements
• Warranty provisions
• Contract provisions, such as extra stock
• Source quality control and field quality control testing requirements
• Scheduling and sequencing requirements
• Installation requirements
• Operational requirements
• Startup provisions
Non-geometrical requirements that describe other aspects of a project:

- Cost data
- Product data
- Schedule/phasing
- Energy
- Security
- Environmental data
- Asset management (operations and maintenance)
Project Data

- Geometry
- Cost Data
- Product Data
- Specifications
## Location of Project Data – Specifications and BIM Project

<table>
<thead>
<tr>
<th>Design (Compliance) Stage - Data Type</th>
<th>Geometry</th>
<th>Performance Specification</th>
<th>Descriptive Specification</th>
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<tbody>
<tr>
<td>Installation requirements</td>
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<tr>
<td>Simple elements</td>
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<tr>
<td>Complex Elements</td>
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<td>Complex element properties</td>
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<tr>
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## Location of Project Data

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<th>Specification</th>
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<tr>
<td>Workmanship</td>
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<td>Property</td>
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</table>
Location of Project Data

- Geometry (BIM)
- Cost Data
- Product Data
- Specifications
Discussion