Dear Sir/Madam

IMPLEMENTATION OF STRUCTURAL EUROCODES IN SINGAPORE

Objectives

This circular informs the industry that:

(a) Structural Eurocodes will be accepted from 1 Apr 2013, and co-exist for two years with the current Singapore/British Standards and

(b) Structural Eurocodes will be the only prescribed structural design standards from 1 Apr 2015.

Structural Eurocodes to be implemented on 1 Apr 2013

2 On 26 Sep 2011, we issued a circular indicating the tentative timeline on the implementation of structural Eurocodes in Singapore. This proposed timeline was subsequently deferred to allow time for the completion of all the Singapore’s National Annexes to the Eurocodes. With the recent completion of the last Singapore’s National Annex, we are ready to implement Eurocodes for structural design.

3 Singapore’s version of the Eurocodes is denoted as “SS EN”, and the corresponding National Annexes denoted as “NA to SS EN”. All SS EN design standards shall be used with the corresponding NA to SS EN. The number of Parts in SS EN and NA to SS EN applicable in Singapore are shown in Annex A.

4 Structural Eurocodes will be implemented on 1 Apr 2013. There will be a two-year co-existence period when the current Singapore Standards/British Standards (SS/BS) and the SS ENs are accepted for structural plans submissions. However, mixing the use of SS EN with the current SS/BS for the same building will not be accepted, i.e., the same standard shall be used throughout the building design.
SS EN as the only prescribed structural design standards after 1 Apr 2015

5 At the end of the two-year co-existence period on 1 Apr 2015, the SS/BS will be withdrawn from the Approved Document. Thereafter, the SS ENs will be the only prescribed design standards from 1 Apr 2015. The list of SS ENs and the corresponding Singapore/British design standards to be withdrawn from the Approved Document is in Annex B. A comparative list of Singapore/British standards and the equivalent SS ENs that replace them is in Annex C.

Industry training and briefings

6 To prepare the industry for migration to the structural Eurocodes, the BCA Academy⁴ and other organisations such as SPRING, professional associations², and our local universities have been organising training courses and seminars since 2006. These organisations will continue to offer more training courses and workshops. We would recommend industry practitioners to attend such training courses and seminars to familiarise themselves with the new structural Eurocodes.

7 BCA will shortly commence briefing sessions to the industry on the regulatory requirements in relation to the adoption of the Eurocodes. We advise industry practitioners, especially professional engineers, to attend our briefing sessions to better understand the regulatory requirements if they plan to start adopting SS ENs in their structural design.

8 I would appreciate it if you could bring the contents of this circular to the attention of your members. Please contact Er. Lung Hian Hao at Tel: 6325-2090 or email: lung_hian_hao@bca.gov.sg if you need further clarification.

Thank you.

Yours faithfully

K THANABAL
DIRECTOR, BUILDING ENGINEERING GROUP
for COMMISSIONER OF BUILDING CONTROL

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¹ Details of the various courses and workshops organised by BCA Academy can be obtained at the following links:
  • www.bcaa.edu.sg (and doing a search under “Eurocode”); or

² Participating professional associations are the Association of Consulting Engineers Singapore, the Institution of Engineers Singapore, the Geotechnical Society of Singapore and the Singapore Structural Steel Society.
ANNEX A: Number of Parts and National Annexes that are applicable in Singapore

<table>
<thead>
<tr>
<th>Code Ref</th>
<th>Title</th>
<th>Number of parts</th>
<th>Number of NA to SS EN</th>
</tr>
</thead>
<tbody>
<tr>
<td>SS EN 1990</td>
<td>Basis of structural design</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>SS EN 1991</td>
<td>Actions of structure</td>
<td>9</td>
<td>9</td>
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<tr>
<td>SS EN 1992</td>
<td>Design of concrete structures</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>SS EN 1993</td>
<td>Design of steel structures</td>
<td>20</td>
<td>14</td>
</tr>
<tr>
<td>SS EN 1994</td>
<td>Design of composite steel and concrete structures</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>SS EN 1995</td>
<td>Design of timber structures</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td>SS EN 1996</td>
<td>Design of masonry structures</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td>SS EN 1997</td>
<td>Geotechnical design</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>SS EN 1998</td>
<td>Design of structures for earthquake resistance</td>
<td>1**</td>
<td>1</td>
</tr>
<tr>
<td>SS EN 1999</td>
<td>Design of aluminium structures</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>**</td>
<td><strong>40</strong></td>
<td><strong>34</strong></td>
</tr>
</tbody>
</table>

* EN 1995, EN 1996 and EN 1999 are not currently in the Singapore Eurocodes adoption programme.

** Only EN 1998-1 is adopted as Singapore Eurocodes. The remaining EN 1998-2 to 6 are not currently in the Singapore Eurocodes adoption programme.
## ANNEX B: Listing of SS ENs and NAs to SS EN and the corresponding Singapore/British design standards to be withdrawn from the Approved Document

<table>
<thead>
<tr>
<th>SS EN Parts</th>
<th>Associated National Annex (NA)</th>
<th>Corresponding SS/BS to be withdrawn</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Eurocode : Basis of structural design</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SS EN 1990 Basis of structural design</td>
<td>NA to SS EN 1990</td>
<td>-</td>
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<tr>
<td><strong>Eurocode 1 : Actions on structures</strong></td>
<td></td>
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<tr>
<td>SS EN 1991-1-1 Actions on structures. General actions – Densities, self-weight, imposed loads for buildings</td>
<td>NA to SS EN 1991-1-1</td>
<td>BS 6399-1 BS 6399-3 BS 648</td>
</tr>
<tr>
<td>SS EN 1991-1-2 Actions on structures. General actions – Actions on structures exposed to fire</td>
<td>NA to SS EN 1991-1-2</td>
<td>-</td>
</tr>
<tr>
<td>SS EN 1991-1-4 Actions on structures. General actions - Wind actions</td>
<td>NA to SS EN 1991-1-4</td>
<td>BS 6399-2 BS 5400-2</td>
</tr>
<tr>
<td>SS EN 1991-1-5 Actions on structures. General actions – Thermal actions Note: Some sections of EN 1991-1-5 relating to bridges correspond to BS 5400-2</td>
<td>NA to SS EN 1991-1-5</td>
<td>-</td>
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<tr>
<td>SS EN 1991-1-6 Actions on structures. General actions - Actions during execution</td>
<td>NA to SS EN 1991-1-6</td>
<td>-</td>
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<tr>
<td>SS EN 1991-3 Actions on structures. Actions induced by cranes and machinery</td>
<td>NA to SS EN 1991-3</td>
<td>-</td>
</tr>
<tr>
<td>SS EN 1991-4 Actions on structures. Silos and tanks</td>
<td>NA to SS EN 1991-4</td>
<td>-</td>
</tr>
<tr>
<td>SS EN Parts</td>
<td>Associated National Annex (NA)</td>
<td>Corresponding SS/BS to be withdrawn</td>
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<td><strong>Eurocode 2: Design of concrete structures</strong></td>
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<tr>
<td>SS EN 1992-2&lt;br&gt;Design of concrete structures. Concrete bridges - Design and detailing rules</td>
<td>NA to SS EN 1992-2&lt;br&gt;BS 5400-4&lt;br&gt;BS 5400-7&lt;br&gt;BS 5400-8</td>
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<tr>
<td>SS EN 1992-3&lt;br&gt;Design of concrete structures. Liquid retaining and containment structures</td>
<td>NA to SS EN 1992-3&lt;br&gt;SS CP 73</td>
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<tr>
<td><strong>Eurocode 3: Design of steel structures</strong></td>
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<tr>
<td>SS EN 1993-1-1&lt;br&gt;Design of steel structures. General rules and rules for buildings</td>
<td>NA to SS EN 1993-1-1&lt;br&gt;BS 5950-1&lt;br&gt;BS 5400-3</td>
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</tr>
<tr>
<td>SS EN 1993-1-2&lt;br&gt;Design of steel structures. General rules - Structural fire design</td>
<td>NA to SS EN 1993-1-2&lt;br&gt;BS 5950-8</td>
<td></td>
</tr>
<tr>
<td>SS EN 1993-1-3&lt;br&gt;Design of steel structures. General rules - Supplementary rules for cold-formed members and sheeting</td>
<td>NA to SS EN 1993-1-3&lt;br&gt;BS 5950-5&lt;br&gt;BS 5950-6&lt;br&gt;BS 5950-9</td>
<td></td>
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<tr>
<td>SS EN 1993-1-4&lt;br&gt;Design of steel structures. General rules - Supplementary rules for stainless steels</td>
<td>NA to SS EN 1993-1-4&lt;br&gt;-</td>
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<tr>
<td>SS EN 1993-1-5&lt;br&gt;Design of steel structures. Plated structural elements</td>
<td>NA to SS EN 1993-1-5&lt;br&gt;BS 5950-1&lt;br&gt;BS 5400-3</td>
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<tr>
<td>SS EN 1993-1-6&lt;br&gt;Design of steel structures. Strength and stability of shell structures</td>
<td>Nil***&lt;br&gt;-</td>
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<tr>
<td>SS EN 1993-1-7&lt;br&gt;Design of steel structures. Plated structures subject to out of plane loading</td>
<td>Nil***&lt;br&gt;-</td>
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<tr>
<td>SS EN 1993-1-8&lt;br&gt;Design of steel structures. Design of joints</td>
<td>NA to SS EN 1993-1-8&lt;br&gt;BS 5950-1&lt;br&gt;BS 4604-1&lt;br&gt;BS 4604-2&lt;br&gt;BS 5400-3</td>
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<tr>
<td>SS EN 1993-1-9&lt;br&gt;Design of steel structures. Fatigue</td>
<td>NA to SS EN 1993-1-9&lt;br&gt;BS 5950-1&lt;br&gt;BS 5400-10</td>
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<tr>
<td>SS EN 1993-1-10&lt;br&gt;Design of steel structures. Material toughness and through-thickness properties</td>
<td>NA to SS EN 1993-1-10&lt;br&gt;BS 5950-1&lt;br&gt;BS 5400-3</td>
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<tr>
<td>SS EN Parts</td>
<td>Associated National Annex (NA)</td>
<td>Corresponding SS/BS to be withdrawn</td>
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<td>SS EN 1993-1-11 Design of steel structures.</td>
<td>NA to SS EN 1993-1-11</td>
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<tr>
<td>SS EN 1993-1-12 Design of steel structures.</td>
<td>NA to SS EN 1993-1-12</td>
<td>BS 5950-1</td>
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<tr>
<td>Additional rules for the extension of EN 1993 up to steel grades S 700</td>
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<td>BS 5950-2 BS 5950-3 BS 5950-4</td>
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<tr>
<td>SS EN 1993-2 Design of steel structures. Steel bridges</td>
<td>NA to SS EN 1993-2</td>
<td>BS 5400-3</td>
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<tr>
<td>SS EN 1993-3-1 Design of steel structures. Towers, masts and chimneys - Towers and masts</td>
<td>NA to SS EN 1993-3-1</td>
<td>BS 8100-1 BS 8100-2 BS 8100-3 BS 8100-4</td>
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<tr>
<td>SS EN 1993-3-2 Design of steel structures. Towers, masts and chimneys – Chimneys</td>
<td>Nil***</td>
<td>BS 4076</td>
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<tr>
<td>SS EN 1993-4-1 Design of steel structures. Silos</td>
<td>Nil***</td>
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<tr>
<td>SS EN 1993-4-2 Design of steel structures. Tanks</td>
<td>Nil***</td>
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<tr>
<td>SS EN 1993-4-3 Design of steel structures. Pipelines</td>
<td>Nil***</td>
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<td>SS EN 1993-5 Piling</td>
<td>NA to SS EN 1993-5</td>
<td>BS 5950-1</td>
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<tr>
<td>SS EN 1993-6 Design of steel structures. Crane supporting structures</td>
<td>NA to SS EN 1993-6</td>
<td>BS 5950-1 BS 2853</td>
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<tr>
<td><strong>Eurocode 4 : Design of composite steel and concrete structures</strong></td>
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<tr>
<td>SS EN 1994-1-1 Design of composite steel and concrete structures. General rules and rules for buildings</td>
<td>NA to SS EN 1994-1-1</td>
<td>BS 5950-3.1 BS 5950-4</td>
</tr>
<tr>
<td>SS EN 1994-1-2 General rules - Structural fire design</td>
<td>NA to SS EN 1994-1-2</td>
<td>BS 5950-8</td>
</tr>
<tr>
<td>SS EN Parts</td>
<td>Associated National Annex (NA)</td>
<td>Corresponding SS/BS to be withdrawn</td>
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<tr>
<td><strong>Eurocode 5 : Design of timber structures</strong></td>
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</table>
| BS EN 1995-1-1 | NA to BS EN 1995-1-1 | BS 5268-2  
BS 5268-3  
BS 5268-6.1  
BS 5268-6.2  
BS 5268-7.1  
BS 5268-7.2  
BS 5268-7.3  
BS 5268-7.4  
BS 5268-7.5  
BS 5268-7.6  
BS 5268-7.7 | |
| BS EN 1995-1-2 | NA to BS EN 1995-1-2 | BS 5268-4.1  
BS 5268-4.2 | |
| BS EN 1995-2 | NA to BS EN 1995-2 | - | |
| **Eurocode 7 : Geotechnical design** | | |
| SS EN 1997-1 | NA to SS EN 1997-1 | BS 8002  
BS 8004  
BS 8006  
BS 8081 | |
| SS EN 1997-2 | NA to SS EN 1997-2 | - | |
| **Eurocode 8 : Design of structures for earthquake resistance** | | |
| SS EN 1998-1 | NA to SS EN 1998-1 | - | |
| **Eurocode 9 : Design of aluminium structures** | | |
| BS EN1999-1-1 | NA to BS EN 1999-1-1 | BS 8118-1  
BS 8118-2 | |
| BS EN1999-1-2 | NA to BS EN 1999-1-2 | - | |
| BS EN1999-1-3 | NA to BS EN 1999-1-3 | BS 8118-1 | |
| BS EN1999-1-4 | NA to BS EN 1999-1-4 | - | |
| BS EN1999-1-5 | NA to BS EN 1999-1-5 | BS 8118-1 | |

*** - There is no UK National Annex for this part of the Eurocode.
### Annex C: Comparative list of Singapore/British standards to be withdrawn and their equivalent replacement by Singapore/European standards (informative)

<table>
<thead>
<tr>
<th>Singapore/British Standards (to be withdrawn from the Approved Document)</th>
<th>Equivalent Singapore / European Standards</th>
</tr>
</thead>
<tbody>
<tr>
<td>BS 648</td>
<td>Schedule of weights of building materials. Withdrawn by the British Standards Institution (BSI).</td>
</tr>
<tr>
<td>CP3: Chapter V-2</td>
<td>Code of basic data for the design of buildings. Loadings. Wind loads. SS EN 1991-1-4</td>
</tr>
<tr>
<td>BS 2573-1</td>
<td>Rules for the design of cranes. Specifications for classification, stress calculations and design criteria for structures. BS EN 13001-1 BS EN 13001-2</td>
</tr>
<tr>
<td>BS 5400-1</td>
<td>Steel, concrete and composite bridges. General statement. SS EN 1991-1-7 SS EN 1990</td>
</tr>
<tr>
<td>BS 5400-6</td>
<td>Steel, concrete and composite bridges. Specification for materials and workmanship, steel. BS EN 1090-2</td>
</tr>
<tr>
<td>BS 5400-7</td>
<td>Steel, concrete and composite bridges. Specification for materials and workmanship, concrete, reinforcement and prestressing tendons. SS EN 1992-2</td>
</tr>
<tr>
<td>BS 5400-9.1</td>
<td>Steel, concrete and composite bridges. Bridge bearings. Code of practice for design of bridge bearings. BS EN 1337 Parts 2 to 8</td>
</tr>
<tr>
<td>BS 5400-9.2</td>
<td>Steel, concrete and composite bridges. Bridge bearings. Specification for material, manufacture and installation of bridge bearings. BS EN 1337 Parts 2, 3, 5, 7 and 8</td>
</tr>
<tr>
<td>BS 5400-10</td>
<td>Steel, concrete and composite bridges. Code of practice for fatigue. SS EN 1993-1-9</td>
</tr>
<tr>
<td>BS 5400-10C</td>
<td>Steel, concrete and composite bridges. Charts for classification of details for fatigue. Withdrawn by BSI.</td>
</tr>
<tr>
<td>Singapore/British Standards (to be withdrawn from the Approved Document)</td>
<td>Equivalent Singapore / European Standards</td>
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<tr>
<td>BS 5950-2 Structural use of steelworks in building. Specification for materials, fabrication and erection – Rolled and welded sections.</td>
<td>BS EN 1090-2</td>
</tr>
<tr>
<td>BS 5950-3.1 Structural use of steelworks in building. Code of practice for design of simple and continuous composite beams.</td>
<td>SS EN 1994-1-1</td>
</tr>
<tr>
<td>BS 5950-4 Structural use of steelworks in building. Code of practice for design of composite slabs with profiled steel sheeting.</td>
<td>SS EN 1994-1-1</td>
</tr>
<tr>
<td>BS 5950-5 Structural use of steelworks in building. Code of practice for design of cold formed thin gauge sections.</td>
<td>SS EN 1993-1-3</td>
</tr>
<tr>
<td>BS 5950-6 Structural use of steelworks in building. Code of practice for design of light gauge profiled steel sheeting.</td>
<td>SS EN 1993-1-3</td>
</tr>
<tr>
<td>BS 5950-7 Structural use of steelworks in building. Specification for materials and workmanship: cold formed sections.</td>
<td>Withdrawn by BSI.</td>
</tr>
<tr>
<td>BS 5950-8 Structural use of steelworks in building. Code of practice for fire resistant design.</td>
<td>SS EN 1993-1-2</td>
</tr>
<tr>
<td>BS 5950-9 Structural use of steelworks in building. Code of practice for stressed skin design.</td>
<td>SS EN 1993-1-3</td>
</tr>
<tr>
<td>SS CP 4 Code of practice for foundations.</td>
<td>To be reviewed by SPRING Singapore.</td>
</tr>
<tr>
<td>BS 8118-1 Structural use of aluminium. Code of practice for design.</td>
<td>BS EN 1999-1-1, BS EN 1999-1-3, BS EN 1999-1-4</td>
</tr>
<tr>
<td>BS 8118-2 Structural use of aluminium. Specification for materials, workmanship and protection.</td>
<td>BS EN 1999-1-1</td>
</tr>
<tr>
<td>SS CP 7 Code of practice for structural use of timber.</td>
<td>To be reviewed by SPRING Singapore.</td>
</tr>
<tr>
<td>BS 5268-2 Structural use of timber. Code of practice for permissible stress design, materials and workmanship. [note: For use of glued laminated timber structures and non-tropical timber.]</td>
<td>BS EN 14080</td>
</tr>
<tr>
<td>BS 8002 Code of practice for earth retaining structures.</td>
<td>SS EN 1997-1</td>
</tr>
<tr>
<td>BS 1881-1 Methods of testing concrete. Method of mixing and sampling fresh concrete in the laboratory.</td>
<td>BS EN 12350-1, BS 1881-125</td>
</tr>
<tr>
<td>BS 1881-5 Testing concrete. Methods of testing hardened concrete for other than strength.</td>
<td>BS 1881-208, BS 1881-209, BS 1881-121, BS 1881-122, BS EN 12390-7</td>
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<tr>
<td>BS 1881-6 Methods of testing concrete. Analysis of hardened concrete</td>
<td>BS 1881-124</td>
</tr>
<tr>
<td>BS 1881-101 Testing concrete. Method of sampling fresh concrete on site.</td>
<td>BS EN 12350-1</td>
</tr>
<tr>
<td>BS 1881-102 Testing concrete. Method for determination of slump.</td>
<td>BS EN 12350-2</td>
</tr>
<tr>
<td>BS 1881-103 Testing concrete. Method for determination of compaction factor.</td>
<td>BS EN 12350-4</td>
</tr>
<tr>
<td>BS 1881-104 Testing concrete. Method for determination of Vebe time.</td>
<td>BS EN 12350-3</td>
</tr>
<tr>
<td>Singapore/British Standards (to be withdrawn from the Approved Document)</td>
<td>Equivalent Singapore / European Standards</td>
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<td>BS 1881-106 Testing concrete. Methods for determination of air content of fresh concrete.</td>
<td>BS EN 12350-7</td>
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<td>BS 1881-107 Testing concrete. Method for determination of density of compacted fresh concrete.</td>
<td>BS EN 12350-6</td>
</tr>
<tr>
<td>BS 1881-108 Testing concrete. Method for making test cubes from fresh concrete.</td>
<td>BS EN 12390-1 BS EN 12390-2</td>
</tr>
<tr>
<td>BS 1881-109 Testing concrete. Method for making test beams from fresh concrete.</td>
<td>BS EN 12390-1 BS EN 12390-2</td>
</tr>
<tr>
<td>BS 1881-110 Testing concrete. Method for making test cylinders from fresh concrete.</td>
<td>BS EN 12390-2</td>
</tr>
<tr>
<td>BS 1881-112 Testing concrete. Methods of accelerated curing of test cubes.</td>
<td>Declared obsolescent by BSI.</td>
</tr>
<tr>
<td>BS 1881-114 Testing concrete. Methods for determination of density of hardened concrete.</td>
<td>BS EN 12390-7</td>
</tr>
<tr>
<td>BS 1881-115 Testing concrete. Specification for compression testing machines for concrete.</td>
<td>BS EN 12390-4</td>
</tr>
<tr>
<td>BS 1881-117 Testing concrete. Method for determination of tensile splitting strength.</td>
<td>BS EN 12390-6</td>
</tr>
<tr>
<td>BS 1881-118 Testing concrete. Method for determination of flexural strength.</td>
<td>BS EN 12390-5</td>
</tr>
<tr>
<td>BS 1881-120 Testing concrete. Method for determination of the compressive strength of concrete cores.</td>
<td>BS EN 12504-1</td>
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<tr>
<td>BS 1881-127 Testing concrete. Method of verifying the performance of a concrete cube compression machine using the comparative cube test.</td>
<td>Withdrawn by BSI.</td>
</tr>
<tr>
<td>BS 1881-202 Testing concrete. Recommendations for surface hardness testing by rebound hammer.</td>
<td>BS EN 12504-2</td>
</tr>
<tr>
<td>Singapore/British Standards (to be withdrawn from the Approved Document)</td>
<td>Equivalent Singapore / European Standards</td>
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<tr>
<td>BS 1881-203</td>
<td>Testing concrete. Recommendations for measurement of velocity of ultrasonic pulses in concrete.</td>
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<td>BS 1881-205</td>
<td>Testing concrete. Recommendations for radiography of concrete.</td>
</tr>
<tr>
<td>BS 1881-209</td>
<td>Testing concrete. Recommendations for the measurement of dynamic modulus of elasticity</td>
</tr>
<tr>
<td>BS 6089</td>
<td>Guide to assessment of concrete strength in existing structures.</td>
</tr>
<tr>
<td>BS 6349-3</td>
<td>Maritime structures. Design of dry docks, locks, slipways and shipbuilding berths, shiplifts and dock and lock gates.</td>
</tr>
<tr>
<td>BS 6349-6</td>
<td>Maritime structures. Design of inshore moorings and floating structures.</td>
</tr>
<tr>
<td>BS 5930</td>
<td>Code of practice for site investigation.</td>
</tr>
<tr>
<td>BS 1377-1</td>
<td>Methods of test for soils for civil engineering purposes. General requirements and sample preparation.</td>
</tr>
<tr>
<td>BS 1377-2</td>
<td>Methods of test for soils for civil engineering purposes. Classification tests.</td>
</tr>
<tr>
<td>BS 1377-3</td>
<td>Methods of test for soils for civil engineering purposes. Chemical and electro-chemical tests.</td>
</tr>
<tr>
<td>Singapore/British Standards (to be withdrawn from the Approved Document)</td>
<td>Equivalent Singapore / European Standards</td>
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| SS 289: Part 3 Specification for concrete. Specification for the procedures to be used in producing and transporting concrete. | SS EN 206-1  
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| SS 320 Specification for concrete admixtures. | SS EN 934-2  
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<p>| BS 7668 Weldable structural steels – Hot finished structural hollow sections in weather resistant steels – Specification. | Still current. |
| SS 470: Part 1 Specification for hot finished structural hollow sections of non-alloy and fine grain structural steels. | To be withdrawn by SPRING. |
| SS 470: Part 2 Specification for hot-finished structural hollow sections of non-alloy and fine grain structural steels - Tolerances, dimensions and sectional properties | To be withdrawn by SPRING. |
| BS EN 485-1 Aluminium and aluminium alloys. Sheet strip and plate. Technical conditions for inspection and delivery. | Still current. |
| BS EN 485-2 Aluminium and aluminium alloys. Sheet strip and plate. Mechanical properties. | Still current. |
| BS EN 485-4 Aluminium and aluminium alloys. Sheet strip and plate. Tolerances on shape and dimensions for cold-rolled products. | Still current. |
| BS EN 755-4 Aluminium and aluminium alloys. Extruded rod/bar, tube and profiles. Square bars, tolerances on dimensions and form. | Still current. |</p>
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