

Construction Standard CS1:2010
Testing Concrete

The following amendments are made to CS1:2010, Volume 1 and Volume 2:

1. Foreword : change

“BS EN 12350-1 to 3 & 5 to 7:2009”	to	“BS EN 12350-1:2009 BS EN 12350-2:2009 BS EN 12350-3:2009 BS EN 12350-5:2009 BS EN 12350-6:2009 BS EN 12350-7:2009”,
“BS EN 12390-2 to 3:2009”	to	“BS EN 12390-2:2009 BS EN 12390-3:2009”,
“BS EN 12390-6:2000”	to	“BS EN 12390-6:2009”,
“BS EN 12390-7 & 8:2009”	to	“BS EN 12390-7:2009 BS EN 12390-8:2009”, and
“RILEM TC 106-2 & 3:2000”	to	“RILEM TC 106-2:2000 RILEM TC 106-3:2000”.

2. Contents, Section 20 : change

“not used” to “Determination of compressive strength of concrete cylinders”

The following amendments are made to CS1:2010, Volume 1:

3. Section 9, Clause 9.4.1, 3rd sentence : change

“compaction bar” to “compacting bar”.

4. Section 9, Clause 9.5, 1st paragraph : add

“and compressive strength test” after “For the tensile splitting strength test”.

5. Appendix A, Clause A18 : change

“BS 410” to “ISO 3310-2:1999”.

The following amendments are made to CS1:2010, Volume 2:

6. Section 11, Clause 11.6.3, 1st paragraph : change

“implement” to “equipment”.

7. Section 11, Clause 11.8, 1st paragraph : change

“shall be include” to “shall include”.

8. Section 13, Clause 13.5.3, 1st paragraph : change

“The load shall be applied” to “The initial load applied to the test specimen shall not exceed 20% of the failure load. After application of the initial load, the load shall be applied”.

9. Section 15, Clause 15.5.2, 3rd paragraph :

(a) The 2nd sentence: “150 °C” shall read as “150 °C whilst being stirred continuously to ensure its homogeneity” and delete “while being stirred continuously”.

(b) The 4th sentence shall read as “Using a guide, one end of the specimen shall be placed into this layer of molten sulphur mixture with its axis vertical.”

(c) After the 5th sentence, add “The mixture shall be allowed to harden before repeating the procedure for the other end of the specimen. The specimen shall then be checked to ensure that the capping material has adhered to the end of the specimen by lightly tapping the capping. If a hollow sound was heard, the capping compound shall be removed and the capping operation shall be repeated.”

10. Replace Section 20 with the two pages attached as “Section 20 Determination of compressive strength of concrete cylinders”.

11. Section 21, Clause 21.5.3, (a) : delete

“Microsieve set with replaceable”.

12. Section 21, Clause 21.5.4, last paragraph : change

“microsieve set” to “sieve”.

13. Section 21, Clause 21.5.5, NOTE : replace the note by

To avoid possible contamination, the 75 µm sieve should be washed and cleaned before use

14. Section 21, Clause 21.6.5.3, 1st paragraph : change

“not water” to “hot water”.

15. Section 21, Clause 21.7.5.2, 5th paragraph : change

“form the beginning” to “from the beginning”.

16. Section 21, Clause 21.8.4.5, 3rd last paragraph : change

“fewer that 80%” to “fewer than 80 %”.

17. Section 22, Clause 22.4 : change

“EN 196-6” to “BS EN 196-6:2010”,
“EN 196-3” to “BS EN 196-3:2005+A1:2008”.

18. Section 22, Clause 22.5.2, Table 8, NOTE : replace the note by

Alternatively the test sieves with supplementary sizes as described in Cl. C23.3 can be used.

19. Section 22, Clause 22.5.6 : change

“RILEM Recommendation TC 106 - 1 (Method for Petrographic Analysis of Alkali Reactive Concrete Aggregates)” by “RILEM Recommended Test Method AAR-1: Detection of potential alkali-reactivity of aggregates – Petrographic method”.

20. Section 22, Clause 22.7.2 : change

“BS 4551” to “BS 4551-1:1998”,
“205 mm. A superplasticizer” to “205 mm, a superplasticizer”.

21. Section 22, Clause 22.8.1 : change

“EN 196-1” to “BS EN 196-1:2005”.

22. APPENDIX C, CONTENTS :

(a) Clause C5: add “, 20.2” after 17.3”;
(b) Clauses C7 and C8: add “, 20.2” after “16.4”.

23. APPENDIX C, Clause C1.2 : change

“EN 196-1” to “BS EN 196-1:2005”.

24. APPENDIX C, Clauses C5.2 and C5.3 : change

“ISO 6507-1” to “BS EN ISO 6507-1:2005”,
“BS 1134:Part 1” and to “BS 1134:2010”.

“BS 1134:Part 2:1972”

25. APPENDIX C, Clause C23.2, heading : change

“Microsieve set with replaceable
75 µm sieve” to “General requirements”,

“All sieves shall comply with BS 410” to “Test sieves of metal wire cloth and perforated plate shall comply with ISO 3310-1:2000 and ISO 3310-2:1999 respectively”.

26. APPENDIX C, Clause C23.3 : replace the paragraph by

Test sieves with supplementary sizes in the series (4.75 mm, 2.36 mm, 1.18 mm, 600 µm, 300 µm and 150 µm) or series (5 mm, 2.5 mm, 1.25 mm, 630 µm, 315 µm and 160 µm) can be used.

27. APPENDIX C, Clauses C35.2 and C38 : change

“BS 4551” to “BS 4551-1:1998”.

28. APPENDIX C, Clause C41.1 : change

“(20 ± 2) °C” to “(20 ± 1) °C”,
“more than” to “not less than”, and
“EN 196-1” to “BS EN 196-1:2005”.

**The Standing Committee on Concrete Technology
Development Bureau
The Government of the Hong Kong Special Administrative Region
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