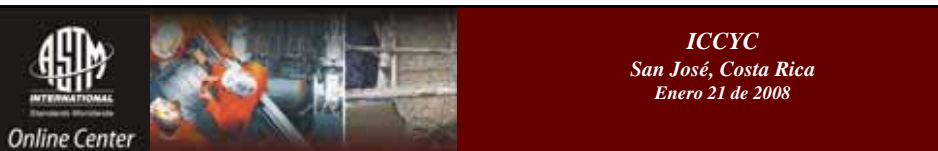


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Enero 21 de 2008




- Introducción.

- Saludo ASTM International.
Mr. James Thomas, Presidente ASTM International

- Presentación de la iniciativa ASTM Online Centers



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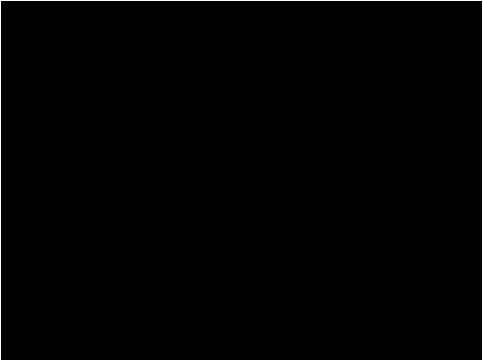
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En el sector de la construcción...

- Treinta y tres comités atienden diferentes aspectos de la construcción, e.g.
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Comité C09 de hormigón y Agregados de hormigón

- Organizado en 1914
- 943 miembros de 41 países
- 163 estándares
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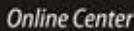
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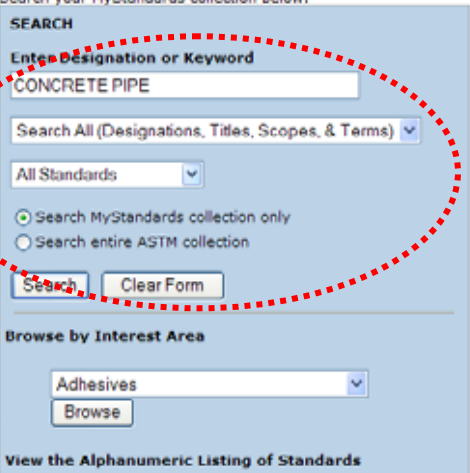
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[C1214-02 Standard Test Method for **CONCRETE PIPE** Sewerlines by Negative Air Pressure \(Vacuum\) Test Method](#)


C1214-02

Comité C "Concretos"

Estándar 1214

Año 2002

Los estándares tienen una referencia que indica a que comité pertenecen y el año en que se actualizaron

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ACTIVE STANDARD: C1618-05 Standard Test Method for CONCRETE Sanitary Sewer PIPE by Negative (Vacuum) or Positive Air Pressure

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Developed by Subcommittee: C13.09
See [Related Work](#) by this Subcommittee
Book of Standards Volume: 04.05

1. Scope

1.1 This test method covers procedures for testing of precast CONCRETE PIPE sections, prior to delivery, where maximum field leakage rates are specified.

1.2 Tests described in this standard are intended to be used at the point of manufacture of the CONCRETE PIPE and are not intended for testing installed PIPE (for field tests see Practices C 924, C 969).

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Designation: C 1618 – 05

**Standard Test Method for
Concrete Sanitary Sewer Pipe by Negative (Vacuum) or
Positive Air Pressure¹**

This standard is issued under the fixed designation C 1618; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript (e) indicates an editorial change since the last revision or reapproval.

1. Scope

1.1 This test method covers procedures for testing of precast concrete pipe sections, prior to delivery, where maximum field leakage rates are specified.

1.2 Tests described in this standard are intended to be used at the point of manufacture of the concrete pipe and are not intended for testing installed pipe (for field tests see Practices C 924, C 969, and C 1214). The user of this specification is advised that individual or multiple pipe sections may be tested for the purpose of testing the pipe barrel and additionally the joints in straight alignment when multiple pipe sections are tested.

1.3 The two leakage rates shown, which were used in calculating the test times, were chosen based on two generally

C 822 Terminology Relating to Concrete Pipe and Related Practices

C 924 Practice for Testing Concrete Pipe Sewer Lines by Low-Pressure Air Test Method

C 969 Practice for Infiltration and Exfiltration Acceptance Testing of Installed Precast Concrete Pipe Sewer Lines

C 1214 Practice for Testing Concrete Pipe Sewer Lines by Negative Air Pressure (Vacuum) Test Method


3. Terminology

3.1 *Definitions:* For definitions of terms related to precast concrete pipe, see Terminology C 822.

4. Summary of Test Method


4.1 The pipe to be tested shall be sealed at the outer ends

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(Note 35), and
~~5.1.6~~ 5.1.6.1.6 If desired, any of the optional requirements of Table 2 in Specification C1602C 1602/C 1602M.

~~Non-2~~ ~~4~~ In selecting the specified air content, the purchaser should consider the exposure conditions to which the concrete will be subjected. Air contents less than shown in Table 1 may not give the required resistance to freezing and thawing, which is the primary purpose of air-entrained concrete. Air contents higher than the levels shown may reduce strength without contributing any further improvement of durability.

~~Non-3~~ ~~5~~ The mass per unit volume of fresh concrete, which is the only unit mass determinable at the time of delivery, is always higher than the air-dry or oven-dry mass. Definitions of, and methods for determining or calculating air-dry and oven-dry masses, are covered by Test Method C 567.

~~5.2~~
~~6.2~~ Option A:
 6.2.1 When the purchaser requires the manufacturer to assume full responsibility for the selection of the proportions for the concrete mixture (Note 46), the purchaser shall also specify the following:
 6.2.1.1 Requirements for compressive strength as determined on samples taken from the transportation unit at the point of discharge evaluated in accordance with Section 18. The purchaser shall specify the requirements in terms of the compressive strength as determined on samples taken from the transportation unit at the point of discharge.



Norm 2—In any given instance, the required dosage of air-entraining, accelerating, and retarding admixtures may vary. Therefore, a range of dosages should be allowed which will permit obtaining the desired effect.

Norm 3—Interchanging kinds, characteristics, types, classes, or grades of the materials permitted in ready-mixed concrete may produce concrete of different properties.

6. Ordering Information

6.1 In the absence of designated applicable general specifications, the purchaser shall specify the following:
 6.1.1 Designated size, or sizes, of coarse aggregate.
 6.1.2 Slump, or slumps, desired at the point of delivery (see Section 7 for acceptable tolerances).
 6.1.3 When air-entrained concrete is specified, the air content of the samples taken at the point of discharge from the transportation unit (see Section 8 and Table 1 for the total air content and tolerances) (Note 2>Note 4).
 6.1.4 Which of Options A, B, or C shall be used as a basis for determining the proportions of the concrete to produce the required quality.
 6.1.5 When structural lightweight concrete is specified, the mass per unit volume as wet mass, air-dry mass, or oven-dry mass (Note 35), and
 6.1.6 If desired, any of the optional requirements of Table 2 in Specification C1602C 1602/C 1602M.

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