
BUILDINGS BULLETIN 2015-023

OTCR

Supersedes: None

**Related
Bulletin(s):** 2010-022

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Purpose: This document establishes standards for fuel-gas fired ceramic kilns used for hobby and non-commercial purposes.

Related Code	BC 417.1	FGC 301.3
Section(s):	BC 903.2	FGC 629
	BC 907.2	FC 906.1
	BC 908.7	

Subject(s): Kiln, ceramic kiln; Small ceramic kilns

Background: Fuel-gas fired ceramic kilns with a maximum interior volume of 20 cubic feet and used for hobby and non-commercial purposes are permitted to be installed pursuant to section FGC 629 provided they are listed and labeled as per section FGC 301.3. However, a standard for the listing and labeling of such ceramic kilns is not prescribed by the code. Therefore this bulletin establishes acceptable standards for the listing and labeling of such kilns.

Description: Fuel-gas fired ceramic kilns are thermally insulated chambers, or ovens, in which controlled temperature regimes are produced.

Evaluation Scope: NYC Construction Codes

Evaluation Criteria: Pursuant to section AC 28-113, the Office of Technical Certification and Research recognizes fuel-gas fired ceramic kilns constructed and evaluated in accordance with AGA 1-94 "*Gas Fired Ceramic Kilns*"¹. Acceptable kiln construction shall be:

1. Listed and labeled by an approved agency in accordance with section AC 28-113.2.3.
2. In compliance with the conditions of this bulletin.

Exception: Fuel-gas fired ceramic kilns more than 20 cubic feet shall not be considered for hobby and non-commercial use and shall require commissioner's approval.

Uses: Fuel-gas fired ceramic kilns with a capacity of 20 cubic feet or less are used for drying clay in the making of ceramic art and pottery for hobby and non-commercial purposes. Kilns are manually fired by an operator, in a firing cycle for a limited period of time.

Conditions and Acceptance: Fuel-gas fired ceramic kilns shall be designed and installed in accordance with AGA 1-94 and the NYC Construction Codes including but not limited to the following code sections:

A. Design

1. Fuel-gas fired ceramic kilns shall be supported on masonry or reinforced portland or refractory cement concrete, or on other noncombustible construction having a fire resistance rating of not less than three hours.
2. Fuel-gas fired ceramic kilns shall be protected by an approved automatic sprinkler system as per section BC 903.2. Unless otherwise required by other provisions of the code, only the area in which the kiln is located need be equipped with such a system.
3. Portable fire extinguishers shall be required when kilns are installed in accordance with this bulletin and considered to be installed in a special-hazard area in accordance with FC section 906.1 location (6).
4. Smoke detection systems shall be installed in accordance with section BC 907.2.
5. Carbon monoxide alarms and detectors shall be provided and installed in accordance with section BC 908.7.

B. Installation Requirements

1. Fuel-gas fired ceramic kilns shall be installed in accordance with the manufacturer's installation instructions and the provisions of NYC Construction Codes as per sections MC 923.1.1 and FGC 629.
2. Plumbing connections shall be performed only by a licensed plumber.
3. Electrical installation shall be performed only by a licensed electrician.
4. Labeling
Fuel-gas fired ceramic kilns shall be labeled as per section AC 28-113.4, All shipments and deliveries of materials shall be accompanied by a certificate or label certifying that the materials shipped or delivered are equivalent to those tested and approved.

Reference Standards: 1. A.G.A. STD 1-94 "Gas Fired Ceramic Kilns"