

Oneonta Block Company

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Divisions of Arnan Development Corporation

Fire Rating for Regular Weight Block using Limestone

Based on the equivalent thickness minimum below, the following is a table which shows the size block that will meet or exceed the fire ratings based on our limestone block. This information is taken from NCMA Tek 7-1C.

Rating	Equivalent Thickness
2 Hour	4.0"
1 1/2 Hour	3.4"
1 Hour	2.7"
3/4 Hour	2.3"

Equivalent thickness of a typical, hollow concrete masonry unit (Table 2)

Typical Hollow Core	Equivalent Thickness
4"	2.7"
6"	3.1"
8"	4.0"
10"	5.0"
12"	5.7"
6" 75% Solid	4.2"

Based on this data, the following block sizes meet the following fire rating.

2 Hour	6" - 75% Solid or 8" Hollow or Larger
1 1/2 Hour	6" - 75% Solid or 8" Hollow or Larger
1 Hour	4" or larger
3/4 Hour	4" or larger

Fire Resistance Rating Test Report

Job No.: 14-504-1B
Report Date: 12/14/2014

Manufacturer: Oneonta Block Co.
Address: 6459 State Highway 23
Oneonta, NY 13820

Testing Agency: National Concrete Masonry Association
Address: Research and Development Laboratory
13750 Sunrise Valley Drive
Herndon, VA 20171-4662

Unit Description: 8 x 8 x 16 inch Concrete Masonry Unit
Mark: 'OBC REG 9/30'

Date Samples Received: 10/24/2014
Date Tested: 12/14/2014

AGGREGATE INFORMATION *****

Aggregate	Type	Batch Wt (lb)	Unit Wt (pcf)	Volume (ft ³)	% Volume
Cobkelskill Stone (Limestone)	3	2800	90.0	31.11	83.83
Concrete Sand	4	600	100.0	6.00	16.17
Totals		3400		37.11	100.00

CALCULATIONS *****

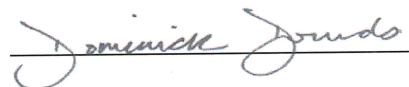
Calculated values used to determine performance values:

Avg Width	7.61 in.	Gross Volume	0.522 ft ³
Avg Height	7.60 in.	Net Volume	0.2820 ft ³
Avg Length	15.60 in.	% Solid	54.0 %
		Equivalent Thickness	4.11 in.
Avg Min FS	1.42 in.		
Avg Min Web	1.05 in.		

CERTIFICATIONS ISSUED *****

Fire: ACI 216.1-07/TMS 0216-07 **2.1 hr**
Code Requirements for Determining Fire Resistance of Concrete and Masonry Construction Assemblies

Note: The fire rating shown above was calculated based on information provided by the producer regarding the types of aggregates, and their proportions, used to manufacture the units.



Dominick O. Dowds
Manager, Research & Development Laboratory

Fire Resistance Rating

Certificate Number: 14-504-1B

Certificate Valid from 12/14/2014 through 12/14/2015

The concrete masonry unit submitted by the manufacturer listed has been evaluated by the National Concrete Masonry Association Research and Development Laboratory for fire resistance in accordance with the code, standard, or procedure cited. The National Concrete Masonry Association certifies to the manufacturer that concrete masonry constructed in accordance with the cited code, standard, or procedure, using units representative of the submitted unit, has the fire resistance stated.

Fire Resistance Rating 2.1 Hour(s)

determined in accordance with

ACI 216.1-07/TMS 0216-07, *Code Requirements for Determining Fire Resistance of Concrete and Masonry Construction Assemblies*

Note: The fire rating shown above was calculated based on information provided by the producer regarding the types of aggregates, and their proportions, used to manufacture the units.

Manufacturer: Oneonta Block Co.
Plant: Oneonta
Unit Description: 8 x 8 x 16 inch Concrete Masonry Unit
Mark: 'OBC REG 9/30'

Equivalent Thickness: 4.1 inches
Aggregate Type(s): Cobble/Shell Stone (Limestone)
Concrete Sand



13750 Sunrise Valley Drive
Herndon, VA 20171
(703) 713-1900 • www.ncma.org

CERTIFICATION AUTHORIZATION

Signature: 
Name: Dominick O. Dowds
Title: Manager, Research & Development Laboratory

Fire Resistance Rating Certificate of Compliance

Oneonta Block Co.

certifies that concrete masonry constructed in accordance with the code, standard or procedure cited, using units from the shipment listed, has the fire resistance stated. Units in the shipment are representative of the unit evaluated by the National Concrete Masonry Association for fire resistance in accordance with the cited code, standard or procedure, as provided on the NCMA Product Certification Certificate.

Fire Resistance Rating 2.1 **Hour(s)**

determined in accordance with

ACI 216.1-07/TMS 0216-07, *Code Requirements for Determining Fire Resistance of Concrete and Masonry Construction Assemblies*

Certificate Number: *14-504-1B*

Manufacturer: *Oneonta Block Co.*

Plant: *Oneonta*

Unit Description: *8 x 8 x 16 inch Concrete Masonry Unit*

Mark: *'OBC REG 9/30'*

Shipment: _____



**13750 Sunrise Valley Drive
Herndon, VA 20171**

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CERTIFICATION AUTHORIZATION

Signature: _____

Mfg. Representative: _____

Title: _____

Date: _____