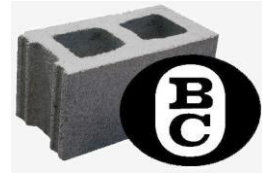




Oneonta Block Company

Duke Concrete Products



Manufacturers & Distributors of High Quality Masonry Products

Standard &
Architectural
Concrete Block



6459 State Highway 23
Oneonta, NY 13820

607-432-6641
Fax 607-433-6284

www.oneontablock.com

50 Duke Industrial Park
Queensbury, NY 12804

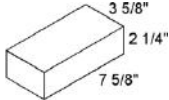
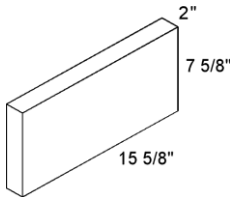
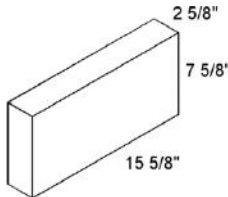
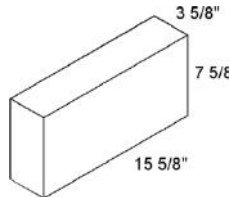
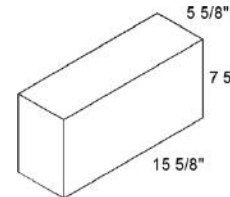
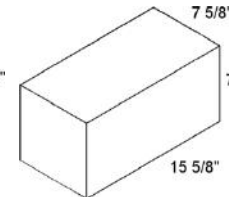
518-793-7743
Fax 518-793-0179

www.dukeconcrete.com

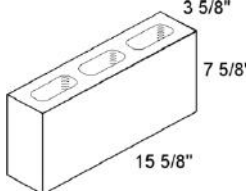
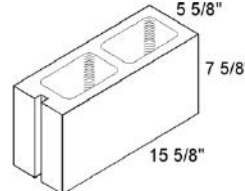
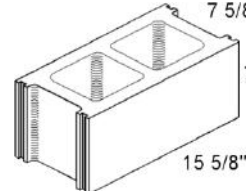
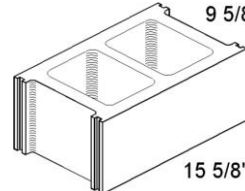
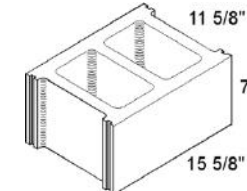


CONCRETE MASONRY UNITS (ASTM C-90)

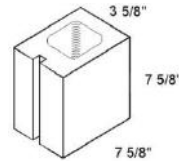
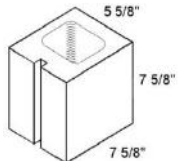
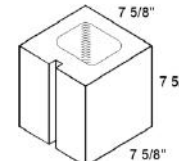
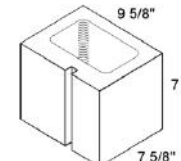
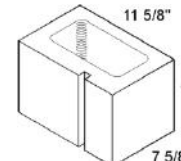
SOLID BLOCK | CAP BLOCK

 Brick 704-02 meets 704-13 for NYS DOT use 2" x 4" x 8" 248CBDOT Concrete Brick	 2816S 2" Solid	 3816S 3" Solid	 4816S 4" Solid	 6816SLW 6" Solid	 8816SLW 8" Solid	
OBC	800 / Pallet	288 / Pallet	162 / Pallet	144 / Pallet	75 / Pallet	60 / Pallet
DUKE	800 / Pallet	225 / Pallet	180 / Pallet	120 / Pallet	90 / Pallet	60 / Pallet

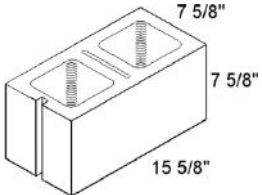
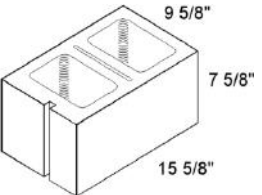
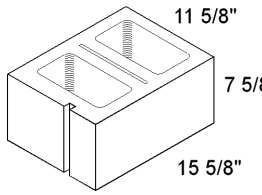
PARTITION / STRETCHERS

 4816, 4816LW 4" Partition	 6816, 6816LW 6" Partition	 8816, 88162LW 8" Stretcher	 108162, 108162LW 10" Stretcher	 128162, 128162LW 12" Stretcher
OBC	144 RW / Pallet 120 LW / Pallet	144 RW / Pallet 96*** or 144 LW / Pallet	108 RW / Pallet * 72*** or 108 LW / Pallet*	81 / Pallet ** 72 / Pallet **
DUKE	150 / Pallet	120 / Pallet	90 RW / Pallet * 105 LW / Pallet *	80 / Pallet 65 / Pallet

HALF SASH

 488, 488LW 4" Half Sash	 688, 688LW 6" Half Sash	 888, 888LW 8" Half Sash	 1088, 1088LW 10" Half Sash	 1288, 1288LW 12" Half Sash
OBC 240 / Pallet	240 RW / Pallet 192 LW / Pallet	180 / Pallet	150 / Pallet	120 / Pallet
DUKE	240 / Pallet	180 / Pallet	160 / Pallet	130 / Pallet

SASH CORNERS

 <p>88162SC</p> <p>8" Sash Corner</p>	 <p>10816SC</p> <p>10" Sash Corner</p>	 <p>128162SC</p> <p>12" Sash Corner</p>	
OBC	108 RW / Pallet, 90 LW / Pallet	81 / Pallet	72 / Pallet
DUKE	90 / Pallet	80 / Pallet	65 / Pallet

RW – Regular Weight, LW – Lightweight

* A pallet of 8" Stretchers consists of 66% Stretcher Block and 33% Sash Corners (sash may be used in the wall as stretchers)

** A pallet of 10" Stretchers or 12" Stretchers consists of 50 % Stretchers and 50 % Sash Corners (OBC only)

Duke 10" & 12" Stretcher pallets contain no Sash Corners

*** 6" & 8" Lightweight Block pallets are available on full size pallets, or smaller contractor size pallets to fit through doorways. (OBC only)



Oneonta Block Company, Oneonta, NY

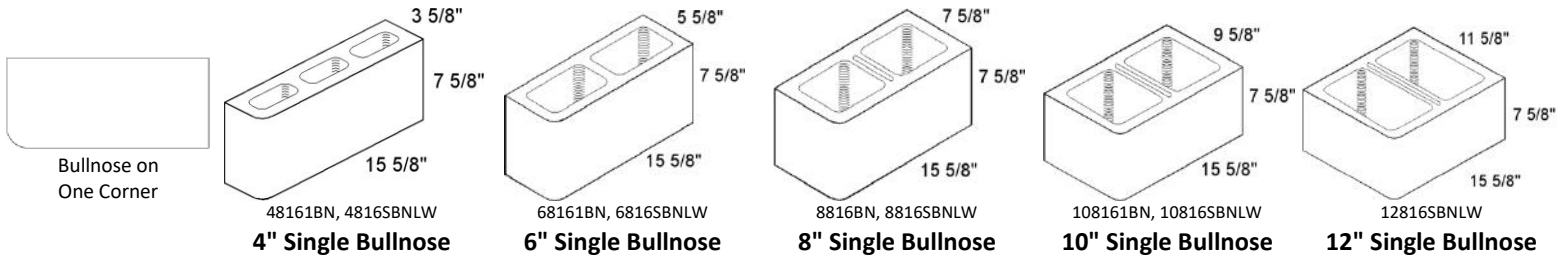
607-432-6641

Duke Concrete Products, Queensbury, NY

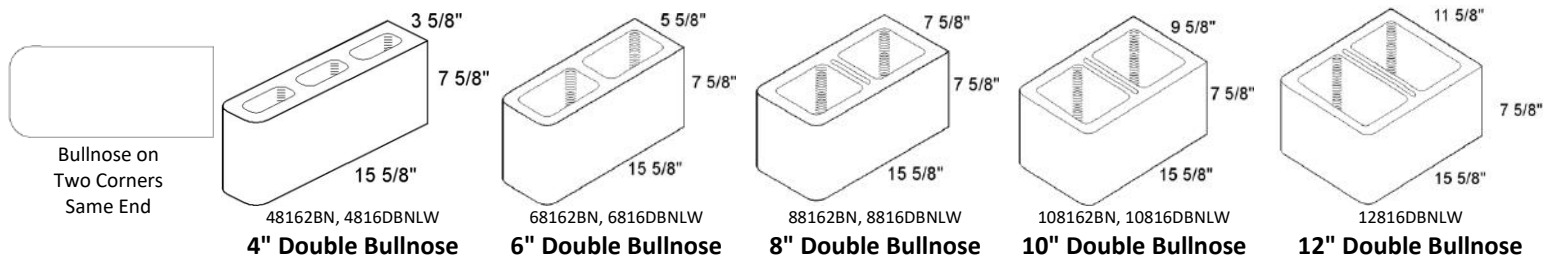
518-793-7743

CONCRETE MASONRY UNITS (ASTM C-90)

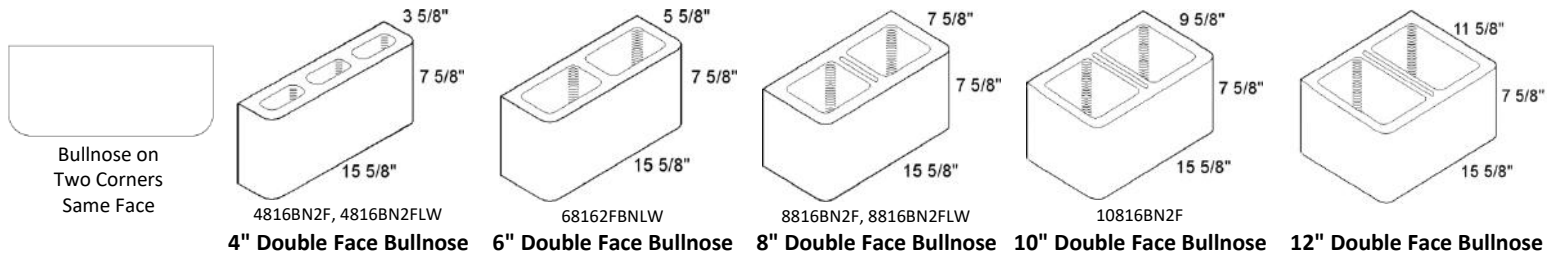
SINGLE BULLNOSE



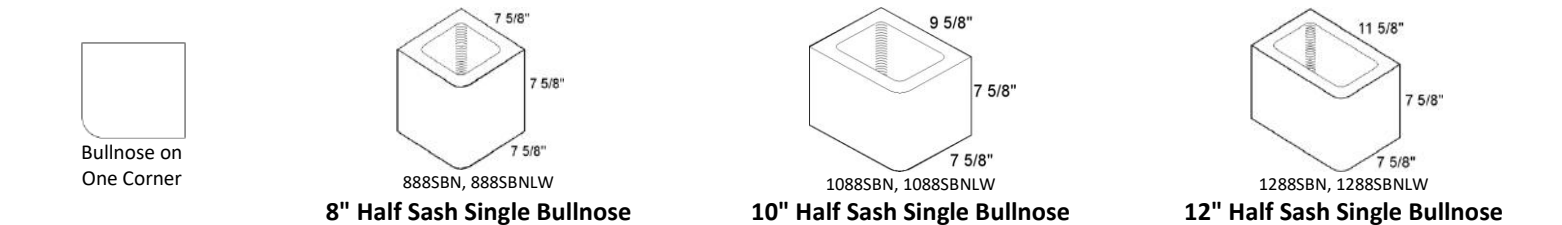
DOUBLE BULLNOSE



DOUBLE FACE BULLNOSE



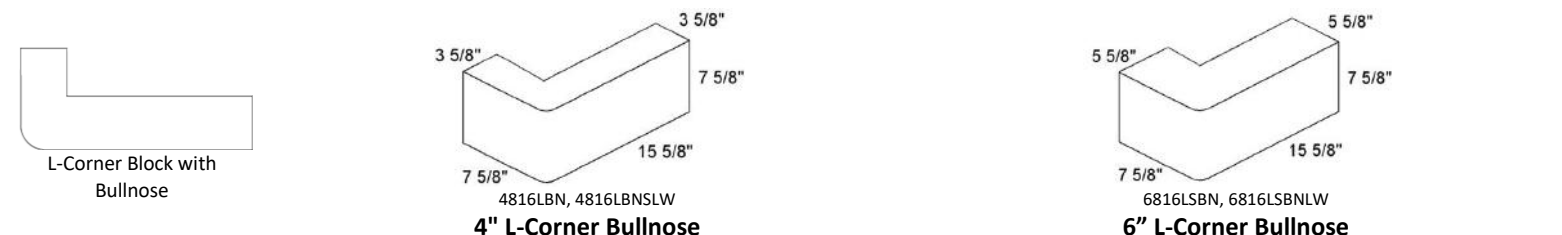
HALF SASH SINGLE BULLNOSE



HALF SASH DOUBLE BULLNOSE



SINGLE BULLNOSE L-CORNER



RW – Regular Weight, LW – Lightweight

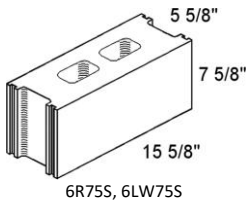


Oneonta Block Company, Oneonta, NY
Duke Concrete Products, Queensbury, NY

607-432-6641
518-793-7743

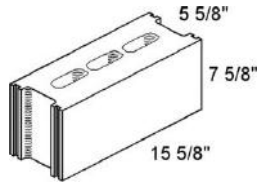
CONCRETE MASONRY UNITS (ASTM C-90)

75% SOLID BLOCK

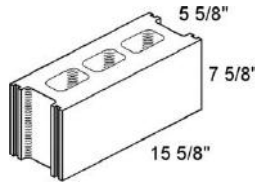


6R75S, 6LW75S

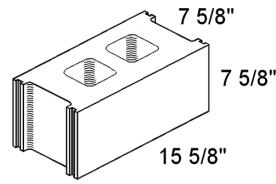
6" 75% Solid 2-Hole
Core = 1 1/4" x 5 1/2"



6" 75% Solid 3-Hole

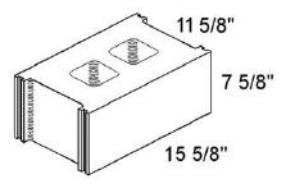


6" 65% Solid



8R75S, 8LW75S

8" 75% Solid
Core = 2 3/4" x 4 1/8"



12R75S

12" 75% Solid

OBC 108 / Pallet

90 / Pallet

60 / Pallet

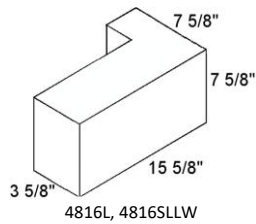
DUKE 120 / Pallet

120 / Pallet

120 / Pallet

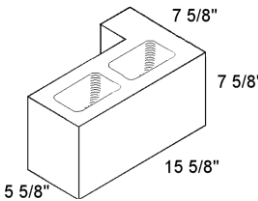
75 RW / Pallet, 90 LW / Pallet

L-CORNER



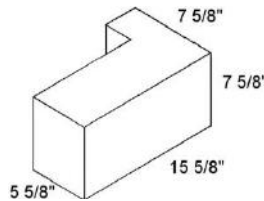
4R16L, 4R16SLLW

4" Solid L Corner



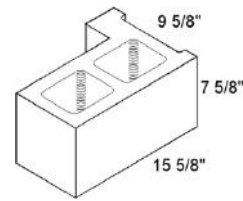
6R16L, 6R16SLLW

6" L Corner



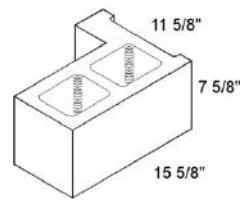
6SLLW

6" Solid L Corner



10R16L, 10R16SLLW

10" L Corner



12R16L, 12R16SLLW

12" L Corner

OBC 108 / Pallet

108 / Pallet

108 / Pallet

72 / Pallet

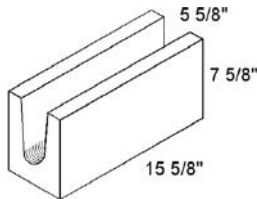
72 / Pallet

DUKE 96 / Pallet

60 / Pallet

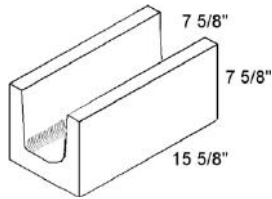
60 / Pallet

SOLID BOTTOM BOND BEAM



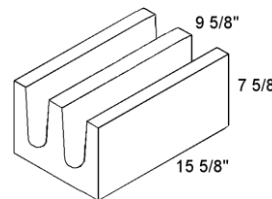
6R16BB

6" Solid Bottom Bond Beam



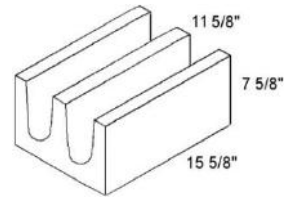
8R16BB, Sidewalls are 1 1/2" thick

8" Solid Bottom Bond Beam



10R16BB

10" Solid Bottom Bond Beam



12R16BB, Sidewalls are 2" thick

12" Solid Bottom Bond Beam

OBC 95 / pallet

90 / pallet

81 / pallet

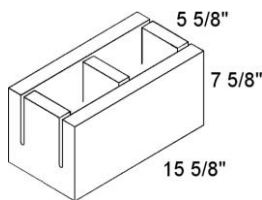
72 / pallet

DUKE 95 RW / Pallet, 90 LW / Pallet

80 RW / Pallet, 78 LW / pallet

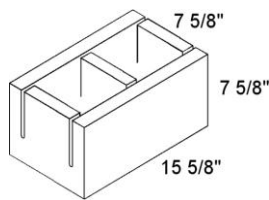
50 RW / pallet, 50 LW / Pallet

KNOCK OUT BOND BEAM



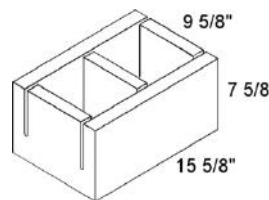
6KOB, 6KOBBLW

6" Knock Out Bond Beam



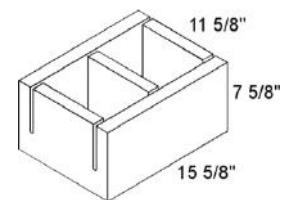
8KOB, 8KOBBLW

8" Knock Out Bond Beam



10KOB, 10KOBBLW

10" Knock Out Bond Beam



12KOB, 12KOBBLW

12" Knock Out Bond Beam

OBC 144 / pallet

90 / pallet

81 / pallet

72 / pallet

DUKE 120 / Pallet

90 / Pallet

78 / Pallet

60 / Pallet

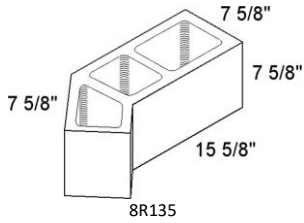
RW – Regular Weight, LW – Lightweight



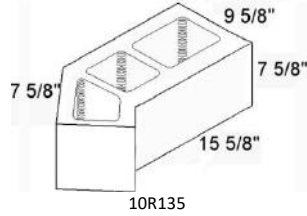
Oneonta Block Company, Oneonta, NY
Duke Concrete Products, Queensbury, NY

607-432-6641
518-793-7743

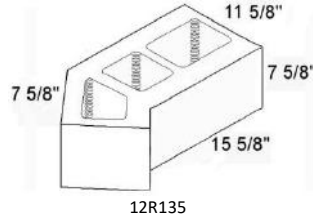
135° RETURN



8" 135° Return
50 / Pallet

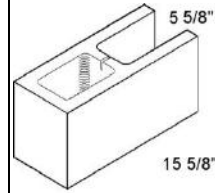


10" 135° Return
40 / Pallet

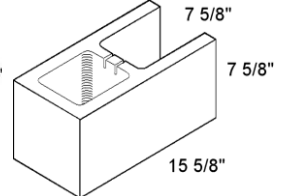


12" 135° Return
40 / Pallet

'A' BLOCK

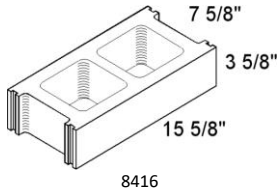


6" 'A' Block
80 / Pallet

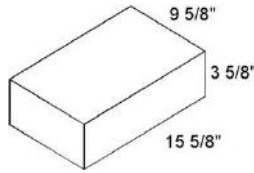


8" 'A' Block
108 / Pallet

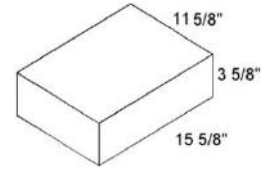
HALF HIGH



8" Half High
180 / Pallet



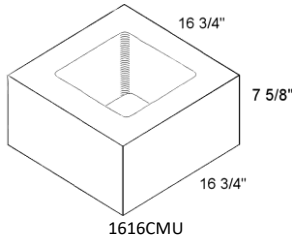
10" Half High Solid
104 / Pallet



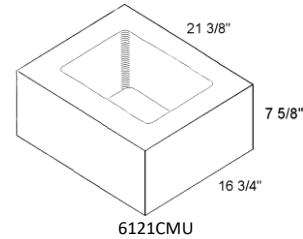
12" Half High Solid
80 / Pallet

CHIMNEY BLOCK

CAUTION Must Use Flue Liners in Chimney Block

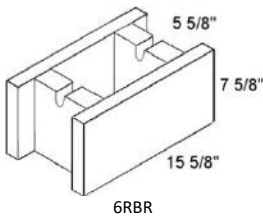


16" x 16" Chimney Block
Inside Dim. 9 1/4" x 9 1/4"
54 / Pallet

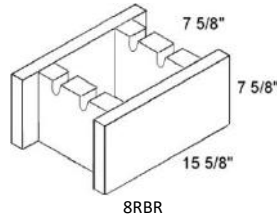


16" x 21" Chimney Block
Inside Dim. 9 1/4" x 13 5/8"
30 / Pallet

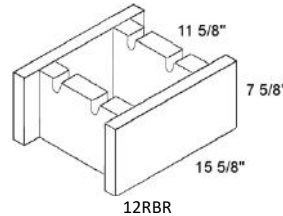
REBAR BLOCK



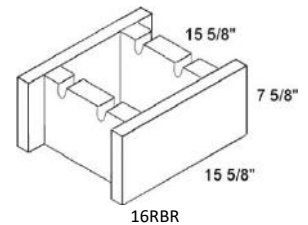
6" Rebar Block
144 / pallet



8" Rebar block
108 / Pallet



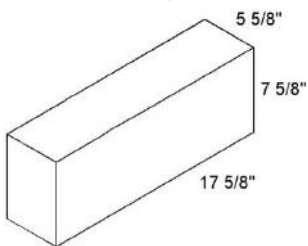
12" Rebar Block
60 / pallet



16" Rebar Block
54 / Pallet

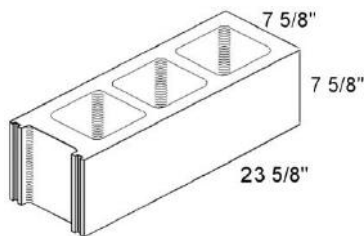
SLOPE BLOCK

NYS DOT 620.09, 704.04



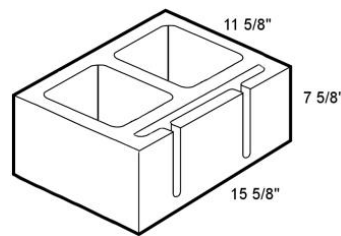
6" X 8" X 18" Solid Block
63 / Pallet

24" SASH / STRETCHER



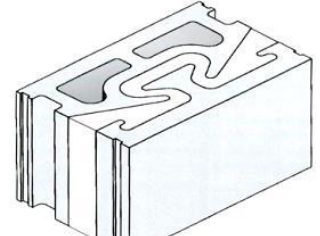
8" x 8" x 24" Stretcher Block
72 / Pallet

SOUND BLOX



12" Sound Blox w/ 4" RSC
72 / pallet

NRG INSULATED



10" & 12" NRG Insulated block
Available in Smooth & Split Face



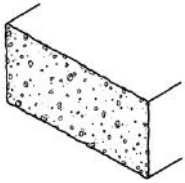
Oneonta Block Company, Oneonta, NY
Duke Concrete Products, Queensbury, NY

607-432-6641
518-793-7743

ARCHITECTURAL CONCRETE UNITS (ASTM C-145)

Heavy Weight

125 lbs / Cu. Ft. & over

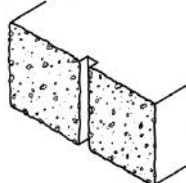


Split Face
00 SPF

Solid – 4", 6" 8"
Regular – 4", 6", 8", 10", 12"
Natural Gray / Colors

Regular Weight

105 – 125 lbs / Cu. Ft.

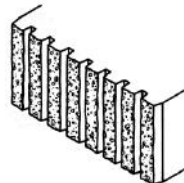


Split Face
Vertical Scored
01 SPF

4", 6", 8", 10", 12"
Natural Gray / Colors

Lightweight

95 – 105 lbs / Cu. Ft.

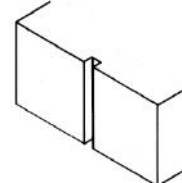


Split Face
Vertical Scored
08 SPF

4", 6", 8", 10", 12"
Natural Gray / Colors

Ultra Lightweight

95 lbs / Cu. Ft. & under



Smooth Face
Vertical Scored
01 SCV

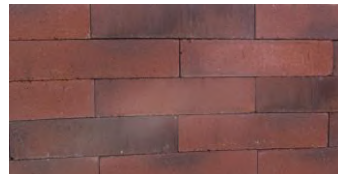
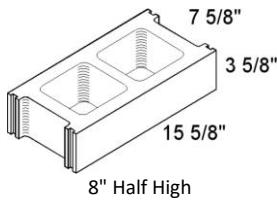
4", 6", 8", 10", 12"
Natural Gray / Colors

DUKEBRIK



Concrete Block designed to replicate the look of structural, fired clay brick.

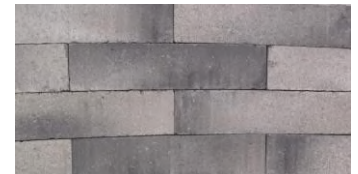
Available in Stretchers and Corners



Spartan Blend



Weathered Ore



Storm Cloud



CARBONCURE™
SIMPLY BETTER CONCRETE

Oneonta Block Company installed Carbon Cure's technology in 2015.

CarbonCure's technology is an affordable retrofit to existing concrete plants that allows producers to recycle waste carbon dioxide (CO₂) during production to make more environmentally friendly concrete

Recycling waste carbon dioxide to make greener masonry

"Upcycling" means collection carbon dioxide (CO₂) from industrial emitters and injecting it into masonry products during manufacturing to make better products. The result is that the CO₂ is permanently embedded within the concrete masonry thereby becoming "mineralized" within the concrete. The technology is designed for masonry producers who are seeking opportunities to differentiate their products and to appeal to the growing green building market.

All lightweight and regular weight block manufactured by
Oneonta Block Company and Duke Concrete Products are **high strength**.

COLOR - Colors are available on a special order basis

As masonry items are made from natural materials, variations in color shades are to be expected. Physical color samples are highly recommended for final color selection.

NYS DOT approved Retaining Wall in Stock



We also offer:



Cement Silos

3,000 Lb. Bulk Cement Bags

Delivered to your jobsite and picked up at the end of the job



Masonry Reinforcement
Anchors
Expansion Joints
Vapor Barriers

Flashing
Control Joints
Roof Underlayment
Weeps



Mortar
Premix
Lime

Mortar Color
Coatings
Portland

Repair Products
Silica Sand & Black Beauty
Grout



New Masonry Detergent
Cleaners
Sealers
Adhesives



Sewer & Drain pipe and fittings
Highway Culvert
Surface Drainage

Schedule 40 pipe and fittings
Leach Chambers



Precast Items



Distribution Box



Drywell



Catch Basin



Septic Tank



Parking Bumpers

Utility Pads

Our Delivery Fleet:



Boom Trucks



Flat Bed



Tag-A-Long Forklifts



Tractor Trailers



Boom with Pup Trailer



Oneonta, NY



Port Crane, NY



ONEONTA BLOCK COMPANY

6459 State Highway 23
Oneonta, NY 13820

607-432-6641
Fax 607-433-6284

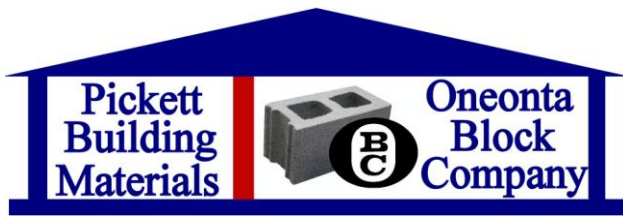
www.oneontablock.com

DUKE CONCRETE PRODUCTS

50 Duke Industrial Park
Queensbury, NY 12804

518-793-7743
Fax 518-793-0179

www.dukeconcrete.com



Oneonta Block Company

607-432-6641

Web www.oneontablock.com

Email obc@oneontablock.com

Pickett Building Materials

607-432-8391

Web www.pickettbuildingmaterials.com

Email pbm@pickettbuildingmaterials.com

6459 State Highway 23, Oneonta, NY 13820

Fax 607-433-6284 • Toll Free in NYS 800-686-0111

Divisions of Arnan Development Corporation

Fire Rating for Light Weight Block using Expanded Shale

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	3.6"
1 1/2 Hour	3.3"
1 Hour	2.6"
3/4 Hour	2.2"

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"
4" Solid	3.6"

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

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

Fire Resistance Rating Test Report

Job No.: 14-504-3B
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 LIGHT 8/18'

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	1600	90.0	17.78	44.44
Greenlite	2	1200	54.0	22.22	55.56
Totals		2800		40.00	100.00

CALCULATIONS *****

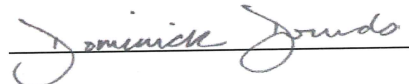
Calculated values used to determine performance values:

Avg Width	7.64 in.	Gross Volume	0.524 ft ³
Avg Height	7.63 in.	Net Volume	0.3023 ft ³
Avg Length	15.54 in.	% Solid	57.7 %
		Equivalent Thickness	4.41 in.
Avg Min FS	1.32 in.		
Avg Min Web	1.16 in.		

CERTIFICATIONS ISSUED *****

Fire: ACI 216.1-07/TMS 0216-07 **4.0 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: 14-504-3B

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 4.0 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 LIGHT 8/18'

Equivalent Thickness:

4.4 inches

Aggregate Type(s): Cobble/Shell Stone (Limestone)

Greenlite



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Herndon, VA 20171
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CERTIFICATION AUTHORIZATION

Signature:

A handwritten signature in blue ink, appearing to read 'Dominick Dowds'.

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 4.0 **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: 14-504-3B

Manufacturer: Oneonta Block Co.

Plant: Oneonta

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

Mark: 'OBC LIGHT 8/18'

Shipment: _____



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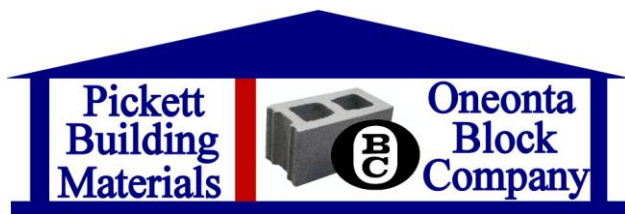
CERTIFICATION AUTHORIZATION

Signature: _____

Mfg. Representative: _____

Title: _____

Date: _____



Oneonta Block Company

607-432-6641

Web www.oneontablock.com

Email obc@oneontablock.com

Pickett Building Materials

607-432-8391

Web www.pickettbuildingmaterials.com

Email pbm@pickettbuildingmaterials.com

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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 *****

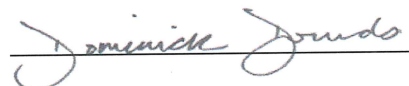
Calculated values used to determine performance values:

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



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Herndon, VA 20171
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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**

(703) 713-1900 • www.ncma.org

CERTIFICATION AUTHORIZATION

Signature: _____

Mfg. Representative: _____

Title: _____

Date: _____

SAFETY DATA SHEET

Section 1: IDENTIFICATION

1.1 PRODUCT IDENTIFIER

Product Name: Concrete Masonry Products
Including: Block, Segmental Retaining Wall Units

1.2 RECOMMENDED USE OF CHEMICAL AND RESTRICTIONS ON USE

Use: Construction material used in building and hardscape applications.

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Name/Address: Oneonta Block Company
Telephone Number: 607-432-6641

1.4 EMERGENCY TELEPHONE NUMBER

Emergency Telephone Number: 607-432-6641
Date of Preparation: November 24, 2015 **Version #:** 1.0

Section 2: HAZARD(S) IDENTIFICATION

2.1 CLASSIFICATION OF THE CHEMICAL ACCORDING TO OSHA HAZCOM 2012

Hazard class

Skin irritation 2
Eye irritation 2A
Skin sensitization 1
Carcinogenicity 1A
Specific target organ toxicity - Single exposure 3
Specific target organ toxicity - Repeated exposure 1

2.2 LABEL ELEMENTS ACCORDING TO OSHA HAZCOM 2012

Hazard Pictogram:



Signal Word: Danger

Hazard Statement: Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. Respirable dust may contain crystalline silica, known to cause cancer. May cause respiratory irritation. Causes damage to lungs through prolonged or repeated exposure.

Prevention: Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. Use only outdoors or in a well-ventilated area. Do not breathe dust.

SAFETY DATA SHEET

Response: If exposed or concerned: Get medical advice/attention. If on skin: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell.

Storage: Not applicable.

Disposal: Dispose of unused or unwanted concrete products in accordance with all local, regional, national and international regulations.

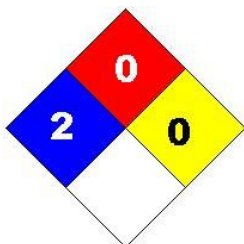
2.3 ADDITIONAL INFORMATION

Hazards not otherwise classified: Not applicable.

47 % of the mixture consists of ingredient(s) of unknown acute toxicity.

This product is a hazardous chemical as defined by NOM-018-STPS-2000.

Mexico Classification:



Blue = Health Red = Flammability Yellow = Reactivity White = Special

Hazard Rating: 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme

WHMIS Classification(s):

Class D2A - Carcinogenicity
Class D2A - Chronic Toxic Effects
Class D2B - Skin/Eye Irritant

WHMIS Hazard Symbols:



WHMIS Signal Word: WARNING

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 MIXTURES

Ingredient	UN #	H / F / R / *	CAS No	Wt. %
Coarse aggregate	Not available.	Not available.	Not available.	15 - 60
Portland cement	Not available.	1/0/0	65997-15-1	10 - 30
Ashes (residues)	Not available.	Not available.	68131-74-8	0.1 - 30
Slags, ferrous metal, blast furnace	Not available.	Not available.	65996-69-2	0.1 - 30

SAFETY DATA SHEET

Water	Not available.	Not available.	7732-18-5	10 - 30
Silica, crystalline, quartz	Not available.	Not available.	14808-60-7	3 - 7
Ferric oxide	UN1376	1/0/0	1309-37-1	1 - 5
Calcium carbonate	Not available.	1/0/0	1317-65-3	1 - 5
Calcium hydroxide	Not available.	3/0/0	1305-62-0	1 - 5
Silica, amorphous, fumed	Not available.	Not available.	7631-86-9	1 - 5
Admixtures (organic and inorganic)	Not available.	Not available.	Not available.	0.1 - 1

The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

* Per NOM-018-STPS-2000

Section 4: FIRST- AID MEASURES

4.1 DESCRIPTION OF THE FIRST AID MEASURE

- Eye:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. If eye irritation persists: Get medical advice/attention.
- Skin:** If irritation occurs, flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists.
- Inhalation:** If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
- Ingestion:** Not a normal route of exposure. If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

- Eye:** Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.
- Skin:** Causes skin irritation. Wear gloves when handling product to avoid drying and mechanical abrasion of the skin. May cause sensitization by skin contact.
- Inhalation:** Dust may cause respiratory tract irritation.
- Ingestion:** Not a normal route of exposure. May result in obstruction and temporary irritation of the digestive tract.

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENTS NEEDED

- Note to Physicians:** Symptoms may not appear immediately.
- Specific Treatments:** In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

Section 5: FIRE-FIGHTING MEASURES

5.1 FLAMMABILITY

- Flammability:** Not flammable by WHMIS/OSHA/NOM-018-STPS-2000 criteria.

SAFETY DATA SHEET

5.2 EXTINGUISHING MEDIA

Suitable Extinguishing Media: Treat for surrounding material.

Unsuitable Extinguishing Media: Not available.

5.3 SPECIAL HAZARDS ARISING FROM THE CHEMICAL

Products of Combustion: May include, and are not limited to: oxides of carbon.

Explosion Data:

Sensitivity to Mechanical Impact: Not available.

Sensitivity to Static Discharge: Not available.

5.4 SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE FIGHTERS

Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

Section 6: ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

6.2 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING - UP

Methods for Containment: Pick up large pieces, then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

Methods for Cleaning-Up: Vacuum or sweep material and place in a disposal container. Use wet methods, if appropriate, to reduce the generation of dust. Provide ventilation if dust is generated.

Section 7: HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Handling: Avoid contact with skin and eyes. Good housekeeping is important to prevent accumulation of dust. Avoid generating and breathing dust. Use wet methods, if appropriate, to reduce the generation of dust. The use of compressed air for cleaning clothing, equipment, etc, is not recommended. Handle with care. When using do not eat or drink. (See section 8)

General Hygiene Advice: Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Storage: Avoid any dust buildup by frequent cleaning and suitable construction of the storage area. (See section 10)

SAFETY DATA SHEET

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

Exposure Guidelines

Occupational Exposure Limits		
Ingredient	OSHA-PEL	ACGIH-TLV
Coarse aggregate	Not available.	Not available.
Portland cement	15 mg/m ³ (total); 5 mg/m ³ (resp)	1 mg/m ³ (no asbestos and <1% crystalline silica, respirable fraction)
Ashes (residues)	Not available.	Not available.
Slags, ferrous metal, blast furnace	Not available.	Not available.
Water	Not available.	Not available.
Silica, crystalline, quartz	((10 mg/m ³)/(%SiO ₂ +2) (resp)) ((30 mg/m ³)/(%SiO ₂ +2) (total)) ((250)/(%SiO ₂ +5) mppcf (resp))	0.025 mg/m ³
Ferric oxide	10 mg/m ³	5 mg/m ³ (iron oxide fume; dust as Fe)
Calcium carbonate	15 mg/m ³ (total); 5 mg/m ³ (resp)	10 mg/m ³
Calcium hydroxide	15 mg/m ³ (total); 5 mg/m ³ (resp)	5 mg/m ³
Silica, amorphous, fumed	80 mg/m ³ /%SiO ₂	10 mg/m ³
Admixtures (organic and inorganic)	Not available.	Not available.

8.2 EXPOSURE CONTROLS

Engineering Controls: When using product, provide local and general exhaust ventilation to keep airborne dust concentrations below exposure limits. Use wet methods, if appropriate, to reduce the generation of dust.

8.3 INDIVIDUAL PROTECTIVE MEASURES

Personal Protective Equipment:

Eye/Face Protection: Safety glasses or goggles are recommended when using product.

Skin Protection:

Hand Protection: Wear suitable gloves.

Body Protection: Wear suitable protective clothing.

Respiratory Protection: A NIOSH approved dust mask or filtering facepiece is recommended in poorly ventilated areas or when permissible exposure limits may be exceeded. Respirators should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134) and ANSI's standard for respiratory protection (Z88.2).

General Health and Safety Measures: Handle according to established industrial hygiene and safety practices. Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking.

SAFETY DATA SHEET

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Fully cured and hydrated concrete.
Color:	Not available.
Odor:	Odorless.
Odor Threshold:	Not available.
Physical State:	Solid.
pH:	Not available.
Melting Point/Freezing Point:	Not available.
Initial Boiling Point and Boiling Range:	Not available.
Flash Point:	Not available.
Evaporation Rate:	Not available.
Flammability:	Not flammable.
Lower Flammability/Explosive Limit:	Not available.
Upper Flammability/Explosive Limit:	Not available.
Vapor Pressure:	Not available.
Vapor Density:	Not available.
Relative Density/Specific Gravity:	Not available.
Solubility:	Insoluble.
Partition coefficient: n-octanol/water:	Not available.
Auto-ignition Temperature:	Not available.
Decomposition Temperature:	Not available.
Viscosity:	Not available.
Oxidizing Properties:	Not available.
Explosive Properties:	Not available.

Section 10: STABILITY AND REACTIVITY

10.1 REACTIVITY

No dangerous reaction known under conditions of normal use.

10.2 CHEMICAL STABILITY

Stable under normal conditions of use.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

No dangerous reaction known under conditions of normal use.

10.4 CONDITIONS TO AVOID

None known.

SAFETY DATA SHEET

10.5 INCOMPATIBLE MATERIALS

None known.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

None known.

Section 11: TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

Likely Routes of Exposure: Skin contact, eye contact, and inhalation.

Symptoms related to physical/chemical/toxicological characteristics:

Eye: Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.

Skin: Causes skin irritation. Wear gloves when handling product to avoid drying and mechanical abrasion of the skin. May cause sensitization by skin contact.

Ingestion: Not a normal route of exposure. May result in obstruction and temporary irritation of the digestive tract.

Inhalation: Dust may cause respiratory tract irritation.

Acute Toxicity:

Ingredient	IDLH	LC50	LD50
Coarse aggregate	Not available.	Not available.	Not available.
Portland cement	5000 mg/m ³	Not available.	Not available.
Ashes (residues)	Not available.	Not available.	Oral > 2000 mg/kg, rat
Slags, ferrous metal, blast furnace	Not available.	Not available.	Not available.
Water	Not available.	Inhalation 90000 mg/m ³ /4h, rat	Oral >90000 mg/kg, rat Dermal >90000 mg/kg, rabbit
Silica, crystalline, quartz	Ca [25 mg/m ³ (cristobalite, tridymite); 50 mg/m ³ (quartz, tripoli)]	Not available.	Oral 500 mg/kg, rat
Ferric oxide	2500 mg Fe /m ³	Not available.	Oral >10000 mg/kg, rat
Calcium carbonate	Not available.	Not available.	Oral 6450 mg/kg, rat
Calcium hydroxide	Not available.	Not available.	Oral 7340 mg/kg, rat
Silica, amorphous, fumed	Not available.	Inhalation ≥58.8 mg/l/1h, rat	Oral >5000 mg/kg, rat Dermal >2000 mg/kg, rabbit
Admixtures (organic and inorganic)	Not available.	Not available.	Not available.

Calculated overall Chemical Acute Toxicity Values

LC50 (inhalation)	LD50 (oral)	LD50 (dermal)
> 5 mg/l/4h, rat	> 2000 mg/kg, rat	> 2000 mg/kg, rabbit

Ingredient	Chemical Listed as Carcinogen or Potential Carcinogen (NTP, IARC, OSHA, ACGIH, CP65)*
Coarse aggregate	Not listed.
Portland cement	G-A4
Ashes (residues)	Not listed.
Slags, ferrous metal, blast furnace	Not listed.

SAFETY DATA SHEET

Water	Not listed.
Silica, crystalline, quartz	G-A2, I-1, N-1, O, CP65
Ferric oxide	G-A4, I-3
Calcium carbonate	Not listed.
Calcium hydroxide	Not listed.
Silica, amorphous, fumed	I-3
Admixtures (organic and inorganic)	Not listed.

* See Section 15 for more information.

11.2 DELAYED, IMMEDIATE, AND CHRONIC EFFECTS OF SHORT- AND LONG-TERM EXPOSURE

Skin Corrosion/Irritation:	Causes skin irritation.
Serious Eye Damage/Irritation:	Causes serious eye irritation.
Respiratory Sensitization:	Based on available data, the classification criteria are not met.
Skin Sensitization:	May cause an allergic skin reaction.
STOT-Single Exposure:	Dust may cause respiratory tract irritation.
Chronic Health Effects:	
Carcinogenicity:	Respirable dust may contain crystalline silica, known to cause cancer.
Germ Cell Mutagenicity:	Based on available data, the classification criteria are not met.
Reproductive Toxicity:	
Developmental:	Based on available data, the classification criteria are not met.
Teratogenicity:	Based on available data, the classification criteria are not met.
Embryotoxicity:	Based on available data, the classification criteria are not met.
Fertility:	Based on available data, the classification criteria are not met.
STOT-Repeated Exposure:	Causes damage to lungs through prolonged or repeated exposure. Respirable crystalline silica in the form of quartz or cristobalite from occupational sources is listed by the International Agency for Research on Cancer (IARC) and National Toxicology Program (NTP) as a lung carcinogen. Prolonged exposure to respirable crystalline silica has been known to cause silicosis, a lung disease, which may be disabling. While there may be a factor of individual susceptibility to a given exposure to respirable silica dust, the risk of contracting silicosis and the severity of the disease is clearly related to the amount of dust exposure and the length of time (usually years) of exposure.
Aspiration Hazard:	Based on available data, the classification criteria are not met.
Toxicologically Synergistic Materials:	Not available.
Other Information:	Not available.

SAFETY DATA SHEET

Section 12: ECOLOGICAL INFORMATION

12.1 ECOTOXICITY

Acute/Chronic Toxicity: No ecological consideration when used according to directions.

12.2 PERSISTENCE AND DEGRADABILITY

Not available.

12.3 BIOACCUMULATIVE POTENTIAL

Bioaccumulation: Not available.

12.4 MOBILITY IN SOIL

Not available.

12.5 OTHER ADVERSE EFFECTS

Not available.

Section 13: DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS

Disposal Method: This material must be disposed of in accordance with all local, state, provincial, and federal regulations.

Other disposal recommendations: Not available.

Section 14: TRANSPORT INFORMATION

14.1 UN NUMBER

DOT	TDG	NOM-004-SCT2-1994
Not regulated.	Not regulated.	Not regulated.

14.2 UN PROPER SHIPPING NAME

DOT	TDG	NOM-004-SCT2-1994
Not applicable.	Not applicable.	Not applicable.

14.3 TRANSPORT HAZARD CLASS (ES)

DOT	TDG	NOM-004-SCT2-1994
Not applicable.	Not applicable.	Not applicable.

14.4 PACKING GROUP

DOT	TDG	NOM-004-SCT2-1994
Not applicable.	Not applicable.	Not applicable.

14.5 ENVIRONMENTAL HAZARDS

Not available.

14.6 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE

Not available.

14.7 SPECIAL PRECAUTIONS FOR USER

Do not handle until all safety precautions have been read and understood.

SAFETY DATA SHEET

Section 15: REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/ LEGISLATIONS SPECIFIC FOR THE CHEMICAL

Canada: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

US: SDS prepared pursuant to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

Mexico: SDS prepared pursuant to NOM-018-STPS-2000.

SARA Title III				
Ingredient	Section 302 (EHS) TPQ (lbs.)	Section 304 EHS RQ (lbs.)	CERCLA RQ (lbs.)	Section 313
Coarse aggregate	Not listed.	Not listed.	Not listed.	Not listed.
Portland cement	Not listed.	Not listed.	Not listed.	Not listed.
Ashes (residues)	Not listed.	Not listed.	Not listed.	Not listed.
Slags, ferrous metal, blast furnace	Not listed.	Not listed.	Not listed.	Not listed.
Water	Not listed.	Not listed.	Not listed.	Not listed.
Silica, crystalline, quartz	Not listed.	Not listed.	Not listed.	Not listed.
Ferric oxide	Not listed.	Not listed.	Not listed.	Not listed.
Calcium carbonate	Not listed.	Not listed.	Not listed.	Not listed.
Calcium hydroxide	Not listed.	Not listed.	Not listed.	Not listed.
Silica, amorphous, fumed	Not listed.	Not listed.	Not listed.	Not listed.
Admixtures (organic and inorganic)	Not listed.	Not listed.	Not listed.	Not listed.

State Regulations

California Proposition 65:

This product contains Crystalline Silica, Quartz and may also contain trace amounts of other chemicals known to the State of California to cause cancer, birth defects or other reproductive harm which may be released upon sanding/cutting/grinding/drilling.

Global Inventories:

Ingredient	Canada DSL/NDSL	USA TSCA
Coarse aggregate	Not available.	Not available.
Portland cement	DSL	Yes.
Ashes (residues)	DSL	Yes.
Slags, ferrous metal, blast furnace	DSL	Yes.
Water	DSL	Yes.
Silica, crystalline, quartz	DSL	Yes.
Ferric oxide	DSL	Yes.
Calcium carbonate	NDSL	Yes.
Calcium hydroxide	DSL	Yes.
Silica, amorphous, fumed	DSL	Yes.
Admixtures (organic and inorganic)	Not available.	Not available.

SAFETY DATA SHEET

NFPA-National Fire Protection Association:	
Health:	2
Fire:	0
Reactivity:	0
HMIS-Hazardous Materials Identification System:	
Health:	2*
Fire:	0
Physical Hazard:	0

Hazard Rating: 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme

SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:

CP65 California Proposition 65

OSHA (O) Occupational Safety and Health Administration.

ACGIH (G) American Conference of Governmental Industrial Hygienists.

A1 - Confirmed human carcinogen.

A2 - Suspected human carcinogen.

A3 - Animal carcinogen.

A4 - Not classifiable as a human carcinogen.

A5 - Not suspected as a human carcinogen.

IARC (I) International Agency for Research on Cancer.

1 - The agent (mixture) is carcinogenic to humans.

2A - The agent (mixture) is probably carcinogenic to humans; there is limited evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals.

2B - The agent (mixture) is possibly carcinogenic to humans; there is limited evidence of carcinogenicity in humans in the absence of sufficient evidence of carcinogenicity in experimental animals.

3 - The agent (mixture, exposure circumstance) is not classifiable as to its carcinogenicity to humans.

4 - The agent (mixture, exposure circumstance) is probably not carcinogenic to humans.

NTP (N) National Toxicology Program.

1 - Known to be carcinogens.

2 - Reasonably anticipated to be carcinogens.

Section 16: OTHER INFORMATION

Date of Preparation: _____

Expiry Date: _____

Version: 1.0

Revision Date: _____

Disclaimer: We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.

End of Safety Data Sheet