

# DAMMON ENGINEERING, INC.

dammonengineering.com

*ARCHITECTS*

*ENGINEERS*

*CONSULTING*

*DESIGN*

*STUDIES*

*EXPERT WITNESS*

1095 Florida Ave.  
Slidell, LA 70458

P.O. Box 2830  
Slidell, LA 70459

985-649-5832  
FAX 985-641-5950

January 24, 2008

K. B. Kaufmann & Co., Inc.  
1019 Old Spanish Trail  
Slidell, LA 70458  
Attn: Dave Kaufmann  
Via fax: 985.649.7679

**Re: Kaufmann Home Office  
UL Shaftwall Assembly**

Dear Dave,

As per your recent request, I have researched and found the attached UL rated assembly U415 to fire rate and block the window in Office 3 at your new office. Basically it is a "shaftwall" assembly, and it allows the use of furring channels or 2 ½" studs.

Call me if you have any questions.

Sincerely,

Robert Wiltse  
Dammon Engineering, Inc.

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January 23, 2008

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1019 Old Spanish Trail  
Slidell, LA 70458  
Attn: Dave Kaufmann  
Via fax: 985.649.7679

**Re: Kaufmann Home Office  
Attic Draftstopping**

Dear Dave,

As per your recent request, I have reviewed NFPA 101, Life Safety Code relative to draftstopping. We could meet an exception to the 3,000 s.f. rule and have no draftstopping if all exposed attic materials meet the requirements for Class "A" materials.

The vinyl faced metal building insulation and the suspended ceiling tile would have to rated Class "A".

The only other problem is the exposed backside of the OSB sheathing that is supporting the stucco system. We need the OSB for the wind loads. You could run a thin gypsum board before installing the OSB, or is there a structural product like OSB that is Class "A" rated?

I will include whatever revision we decide upon in the response package I am preparing for the Fire Marshall review architect.

Call me if you have any questions.

Sincerely,

Robert Wiltse  
Dammon Engineering, Inc.

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Attn: Dave Kaufmann  
Via fax: 985.649.7679

**Re: Kaufmann Home Office  
UL Assembly**

Dear Dave,

As per your recent request, I have researched and attached several UL rated assemblies for an 8" single wythe CMU wall to substitute for the 4" & 6" double wythe wall shown on the plans. Let me know which assembly (U904 – U907) you may prefer. The main difference is in the classification of the concrete block, and I do not know what your supplier is providing for you.

I will include this revision in a response package I am preparing for the Fire Marshall review architect.

Call me if you have any questions.

Sincerely,

Robert Wiltse  
Dammon Engineering, Inc.

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**Re: Kaufmann Home Office  
UL Assembly**

Dear Dave,

As per your recent request, I have researched and attached several UL rated assemblies for an 8" single wythe CMU wall to substitute for the 4" & 6" double wythe wall shown on the plans. Let me know which assembly (U904 – U907) you may prefer. The main difference is in the classification of the concrete block, and I do not know what your supplier is providing for you.

I will include this revision in a response package I am preparing for the Fire Marshall review architect.

Call me if you have any questions.

Sincerely,



Robert Wiltse

Dammon Engineering, Inc.



## BXUV.U904 Fire Resistance Ratings - ANSI/UL 263

Page Bottom

### Fire Resistance Ratings - ANSI/UL 263

See General Information for Fire Resistance Ratings - ANSI/UL 263

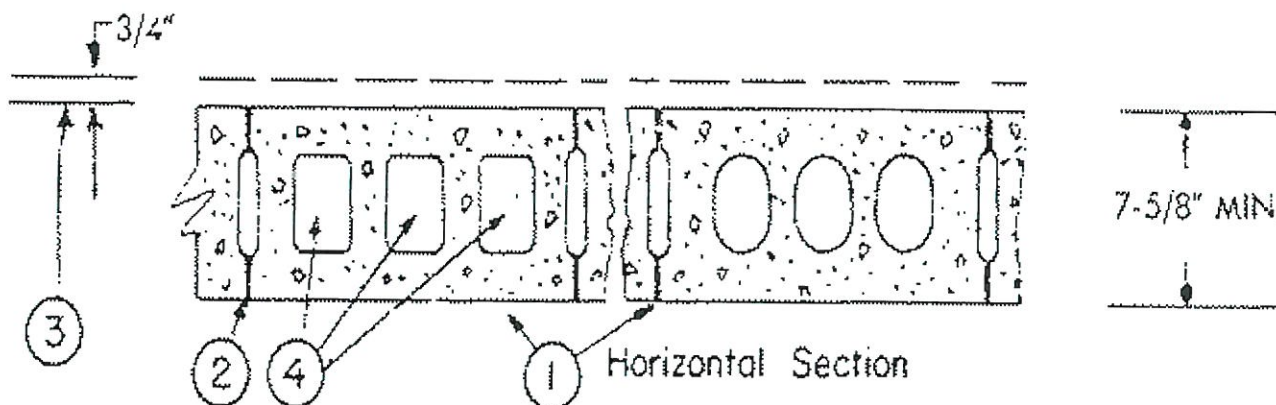
Design No. U904

March 17, 2004

Bearing Wall Rating — 3 HR.

Nonbearing Wall Rating — 3 HR.

Load Restricted for Canadian Applications — See Guide [BXUV7](#)



1. **Concrete Blocks\*** — Various designs. Classification C-3 (3 hr).

See **Concrete Blocks** category for list of eligible manufacturers.

2. **Mortar** — Blocks laid in full bed of mortar, nom. 3/8 in. thick, of not less than 2-1/4 and not more than 3-1/2 parts of clean sharp sand to 1 part Portland cement (proportioned by volume) and not more than 50 percent hydrated lime (by cement volume). Vertical joints staggered.

3. **Portland Cement Stucco or Gypsum Plaster** — Add 1/2 hr to Classification if used. Attached to concrete blocks (Item 1).

4. **Loose Masonry Fill** — If all core spaces are filled with loose dry expanded slag, expanded clay or shale (Rotary Kiln Process), water repellant vermiculite masonry fill insulation, or silicone treated perlite loose fill insulation add 1 hr to Classification.

5. **Foamed Plastic\*** — (Optional-Not Shown) — 1-1/2 in. thick max, 4 ft wide sheathing attached to concrete blocks (Item 1).

**THE DOW CHEMICAL CO** — Type Thermax

\*Bearing the UL Classification Mark

Last Updated on 2004-03-17

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[Page Top](#)

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## BXUV.U905 Fire Resistance Ratings - ANSI/UL 263

Page Bottom

### Fire Resistance Ratings - ANSI/UL 263

See General Information for Fire Resistance Ratings - ANSI/UL 263

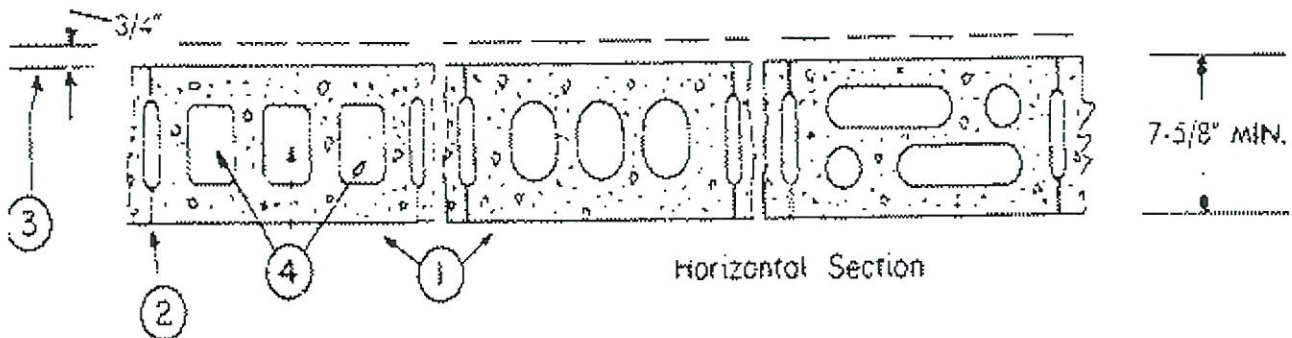
**Design No. U905**

March 17, 2004

**Bearing Wall Rating — 2 HR.**

**Nonbearing Wall Rating — 2 HR**

**Load Restricted for Canadian Applications — See Guide [BXUV7](#)**



1. **Concrete Blocks\*** — Various designs. Classification D-2 (2 hr).

See **Concrete Blocks** category for list of eligible manufacturers.

2. **Mortar** — Blocks laid in full bed of mortar, nom. 3/8 in. thick, of not less than 2-1/4 and not more than 3-1/2 parts of clean sharp sand to 1 part Portland cement (proportioned by volume) and not more than 50 percent hydrated lime (by cement volume). Vertical joints staggered.

3. **Portland Cement Stucco or Gypsum Plaster** — Add 1/2 hr to classification if used. Where combustible members are framed in wall, plaster or stucco must be applied on the face opposite framing to achieve a max. Classification of 1-1/2 hr. Attached to concrete blocks (Item 1).

4. **Loose Masonry Fill** — If all core spaces are filled with loose dry expanded slag, expanded clay or shale (Rotary Kiln Process), water repellent vermiculite masonry fill insulation, or silicone treated perlite loose fill insulation add 2 hr to classification.

5. **Foamed Plastic\*** — (Optional-Not Shown) — 1-1/2 in. thick max, 4 ft wide sheathing attached to concrete blocks (Item 1).

**THE DOW CHEMICAL CO** — Type Thermax

\*Bearing the UL Classification Mark

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## BXUV.U906 Fire Resistance Ratings - ANSI/UL 263

Page Bottom

### Fire Resistance Ratings - ANSI/UL 263

See General Information for Fire Resistance Ratings - ANSI/UL 263

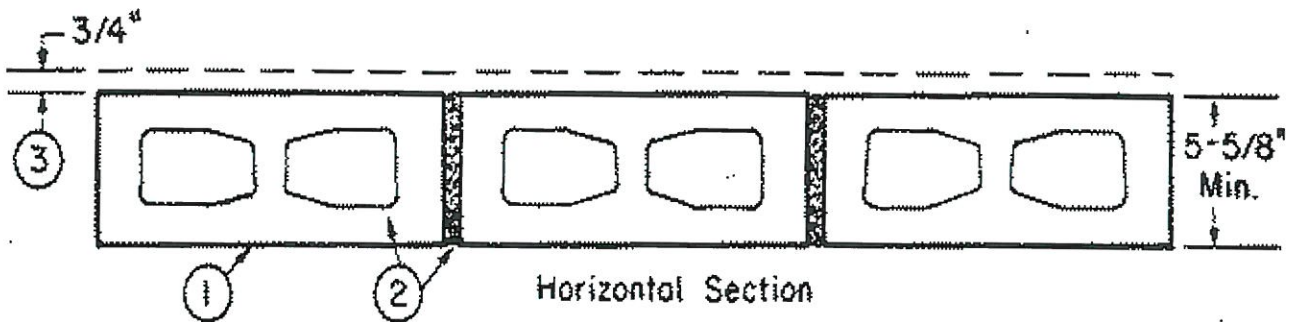
Design No. U906

March 17, 2004

Bearing Wall Rating – 2 HR.

Nonbearing Wall Rating – 2 HR.

Load Restricted for Canadian Applications – See Guide BXUV7



1. **Concrete Blocks\*** – Nominal 6 by 8 by 16 in, hollow or solid.

Classification D-2 (2 hr).

**ANCHOR CONCRETE PRODUCTS INC**

**GAGNE & SON CONCRETE BLOCK INC**

Allowable compressive stress of 57% of max allowable compressive stress in accordance with the empirical design method.

**OLDCASTLE APG NE DBA ARTHUR WHITCOMB**

**WESTBROOK CONCRETE BLOCK CO INC**

Allowable compressive stress of 75.6% of max allowable compressive stress in accordance with the empirical design method.

2. **Mortar** – Blocks laid in full bed of mortar, nom. 3/8 in. thick, of not less than 2-1/4 and not more than 3-1/2 parts of clean sharp sand to 1 part Portland cement (proportioned by volume) and not more than 50 percent hydrated lime (by cement volume). Vertical joints staggered.

3. **Portland Cement Stucco or Gypsum Plaster** – Add 1/2 hr to Classification if used. Attached to concrete blocks (Item 1).

4. **Foamed Plastic\*** — (Optional-Not Shown) — 1-1/2 in. thick max, 4 ft wide sheathing attached to concrete blocks (Item 1).

**THE DOW CHEMICAL CO** — Type Thermax

\*Bearing the UL Classification Mark

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**BXUV.U907  
Fire Resistance Ratings - ANSI/UL 263**

Page Bottom

**Fire Resistance Ratings - ANSI/UL 263**

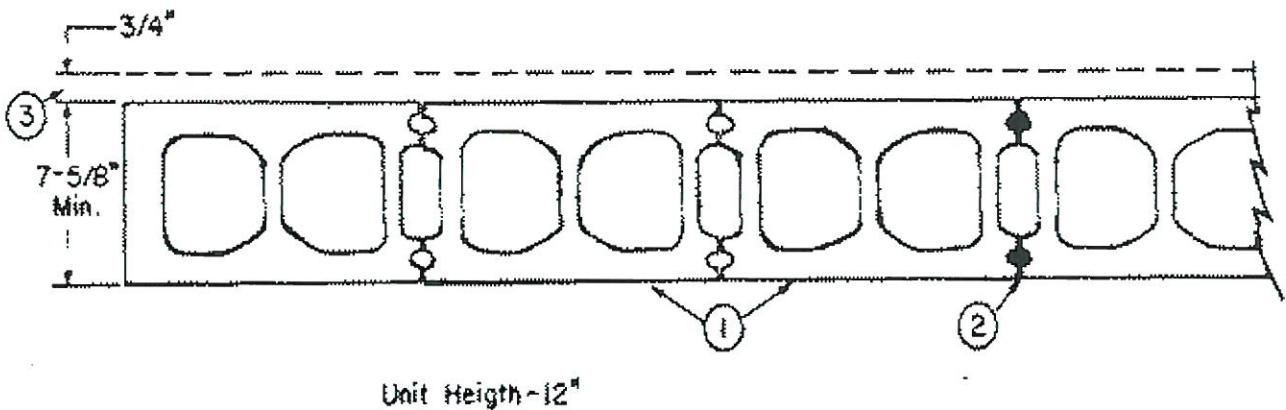
See General Information for Fire Resistance Ratings - ANSI/UL 263

**Design No. U907**

April 02, 2004

**Nonbearing Wall Rating — 3 or 4 HR.**

(See Item 1)



1. **Concrete Blocks\*** — Classification C-3 (3 hr) and B-4 (4 hr).

Rating Hr	Certificate	Web Thkns	Face Shell Thkns	No. Core
3	C-3	1-1/8 in.	1-1/4 in.	2
4	B-4	1 in.	1-1/2 in.	2

**TARMAC MID-ATLANTIC INC**

2. **Mortar** — Blocks laid in full bed of mortar, nom. 3/8 in. thick, of not less than 2-1/4 and not more than 3-1/2 parts of clean sharp sand to one part Portland cement (proportioned by volume) and 15 percent hydrated lime (by cement volume). Vertical joints staggered.

3. **Portland Cement Stucco or Gypsum Plaster** — Add 1/2 hr to classification if used. Attached to concrete blocks (Item 1).

4. **Loose Masonry Fill** — (Not shown) — If all core spaces are filled with loose dry expanded slag, expanded clay or shale (rotary kiln process), water repellent vermiculite masonry fill insulation, or silicone treated perlite loose fill insulation, Class C-3 (3 hr) concrete blocks will provide a 4 hr fire resistance rating.

5. **Foamed Plastic\*** — (Optional-Not Shown) — 1-1/2 in. thick max, 4 ft wide sheathing attached to concrete blocks (Item 1) or interior wall surface.

**THE DOW CHEMICAL CO** — Type Thermax

\*Bearing the UL Classification Mark

Last Updated on 2004-04-02

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