

**GREGG'S LANDING**  
**CUSTOM HOME BUILDERS**  
**CONSTRUCTION REQUIREMENTS**

AS OF 9/3/03 VIA ORDINANCE 2003-58, ZALE HOMES WAS SOLD TO KB HOME

Village of Vernon Hills  
Community Development Department  
290 Evergreen Drive, Vernon Hills, IL 60061  
Phone 847-367-3704 - Fax 847-367-2541 - [http:// www.vernonhills.org](http://www.vernonhills.org)

This hand out is for REFERENCE ONLY. For more details see specific code sections.

## CODES & ORDINANCES

### **The 2012 International Residential Code with Local Amendments (1-800-214-4321)**

The provisions in the 2012 IRC apply only to detached 1 & 2 family dwellings and multiple single family (townhouses) not more than three (3) stories in height. All information pertains to the design and physical construction of a dwelling (i.e. stairways, handrails, natural lights, wall and floor framing specifications).

### **The International Building Code 2012 with Local Amendments (1-708-799-2300)**

The provisions in the 2012 IBC apply to all buildings and structures not covered by the 2006 IRC. All information pertains to the design and physical construction of a building/structure (i.e. stairways, handrails, natural lights, wall and floor framing specifications).

### **2004 Illinois State Plumbing Code with Local Amendments (1-217-524-0795)**

The provisions of this section apply to all dwellings, buildings and structures. All information pertains to plumbing related installations.

### **2011 National Electrical Code with Local Amendments (1-800-344-3555)**

The provisions of this section apply to all dwellings, buildings and structures. All information pertains to electrical related installations.

### **Village of Vernon Hills Zoning Ordinance (Obtain at Clerk's Office)**

Provisions apply to all properties within the Village. Information pertains to the use of land, location of buildings and structures from property line, fencing and parking space (number) requirements.

### **General Code of Ordinances (Specify Section(s) - Obtain at Clerk's Office)**

Provisions apply to the operation of the village, curfew, liquor licensing, minimum housing code, traffic signals, pets, parks signage, general health, food establishments, noise, etc., guidelines and regulations.

### **1997 Illinois Accessibility Code (1-217-782-2864)**

Accessibility guidelines for plumbing, electrical, building, parking installations to provide for better building and property access.

### **The International Fire Prevention Code 2012 (1-800-214-4321)**

The provisions in the 2012 Fire Prevention Code apply to regulations governing effective and continuing safeguards against fire hazards.

**The International Mechanical Code 2012 (1-800-214-4321)**

The provisions in the 2012 Mechanical Code apply to the design and installation of mechanical systems.

**The International Energy Conservation Code 2012 (1-800-214-4321)**

The provisions in the 2012 International Energy Conservation Code applies to energy conservation in new buildings.

**The International Property Maintenance Code 2012 (1-800-214-4321)**

The provisions in the 2012 International Property Maintenance Code applies to the protection of public health, safety and welfare.

**The International Fuel Gas Code 2012 With Local Amendments (1-800-344-3555)**

The provisions in the 2012 N.F.G.C. govern the installation of fuel gas piping systems, fuel gas utilization equipment and related accessories.

**The International Existing Building Code 2012**

Regulations governing the remodeling, repair, and alterations of existing buildings.

**Wildland – Urban Interface Code 2012**

Regulations governing the mitigation of hazard to life and property from the intrusion of fire from wildland exposures.

**Standard Specifications for Road and Bridge Construction**

IDOT January 1, 2002 or current

**Standard Specifications for Water & Sewer Construction in Illinois**

Current edition

**Lake County Public Works - Department specifications**

**Lake County Watershed Development Ordinance**

Current edition

**American Society of Mechanical Engineers**

345 East 47<sup>th</sup> Street

New York, NY 10017-2392

A17.3 – 1993 – Covers the provisions for existing elevators and escalators.

A17.1 – 1993 – Covers the provisions for elevators and escalators.

**For Water and Sewer Permits**

Lake County Public Works

650 W. Winchester Road

Libertyville, Illinois 60048

(847) 367-1600

**For Utility Permits**

Vernon Hills Public Works Dept.

490 Greenleaf Blvd

Vernon Hills, Illinois 60061

(847) 367-3726

**For Restaurants**

Lake County Health Department; (847) 526-1125

118 S. Main Street

Wauconda, Illinois 60084

**RESOLUTION NO. 98- 07**

**Resolution to Amend Resolution 96-06  
Granting Final RPUD Development Plan Approval  
to G.A.Z., Inc. for the Property Located at  
Butterfield, Milwaukee, the EJ&E  
known as the Gregg's Landing Project**

**WHEREAS**, the property commonly known as the Gregg's Landing project, (the "Property") is part of an approved special use for a Regional Planned Development ("RPUD"), which was established by the Annexation Agreement of the Cuneo Estate property, said Agreement dated November 15, 1988; and

**WHEREAS**, G.A.Z., Inc. ("Zale") petition the Village of Vernon Hills for Final RPUD Development Plan approval, Site Plan and Landscape Plan approval for the Gregg's Landing project; and

**WHEREAS**, on April 9, 1996, the Board of Trustees of the Village of Vernon Hills voted to approve Resolution No. 96-06 granting Final RPUD Development Plan approval for the Gregg's Landing project pursuant to the proper hearings being held; and

**WHEREAS**, both Zale and the Village have determined that certain amendments are required to Resolution No. 96-06 in order to further facilitate the development of the Property.

**NOW, THEREFORE, BE IT RESOLVED BY THE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF VERNON HILLS, COUNTY OF LAKE, STATE OF ILLINOIS,**

**SECTION 1.** The Preambles contained herein shall be incorporated within its Resolution.

**SECTION 2.** All of the testimony set forth regarding Resolution No. 96-06, and this Amendment, shall become part of the record of the subsequent approval of this Resolution:

**SECTION 3.** Paragraph 2. (h) of Resolution No. 96-06 shall be amended as follows:

- (iii) A fence which is required to be constructed under applicable law around a "in-ground" swimming pool installed in the rear yard of a home pursuant to a permit issued therefor; provided,

that, the fence shall be installed around the pool area only, subject to a maximum enclosed area of 40% of the rear yard. No fence shall be closer than 10' to the property line. No swimming pools extending more than 24 inches above ground shall be constructed on any lot. No fence surrounding any pool shall be a chain link fence. Any fence so constructed shall be required to be decorative metal, or if wood, be at least 50% open.

SECTION 4. Paragraph 1, approval of RPUD Development Plan, shall be amended as follows:

(h) Minimum building setbacks shall be in accordance with the Village Zoning Ordinance, and the Ordinance granting preliminary approval, as applicable, except for the lots listed on Exhibit H attached thereto, whereby for those lots, the setback shall be allowed to include the outlot areas; or as further varied herein. All setbacks will be shown on the plats of resubdivision. In addition, when approved by the Village engineer, within single-family detached home Pods located west of the Seavey Ditch (excepting custom home Pods, i.e. Pods whose lots are not under sole control of one developer seeking building permits), a side yard setback may be reduced to five feet, as long as the minimum separation distance between two single-family detached homes is maintained to be at least 14 feet. Projections which are within side yards which are allowed by the Village's Zoning Ordinance, such as fireplaces, eaves, bay windows, etc., shall be permitted to encroach within the setback between homes. This shall apply only within development pods in which all lots therein are under sole control of a single developer. If two adjacent lots are not under sole control of one developer, this shall not apply.

(i) Approve a maximum 3:1 berm along Butterfield Road per approved landscape plans, and per requirements of the Village Engineer contained in a letter dated \_\_\_\_\_, 1997, attached hereto. This approval is only applicable for Butterfield Road, south of Gregg's Parkway. None of Gregg's Parkway shall require subsequent approval of the Board of Trustees.

SECTION 5. Paragraph 7, architectural and home construction standards shall be varied as follows:

(f) Roof shingles shall be random tab laminated architectural shingles of 25 year minimum warranty or heavier material. For Pods for which a development permit has not

heretofore been issued, roof shingles shall be of 30 year minimum warranty or heavier material. Shingles are not required for flat roof buildings constructed within multi-family use group R2 dwelling units.

SECTION 6. SEVERABILITY. That in the event any section, clause, provision or part of this Resolution shall be bound and determined to be invalid by a court of competent jurisdiction, all valid parts that are severable from the invalid part shall remain in full force and effect.

SECTION 7. REPEAL AND SAVING CLAUSE. All ordinances and resolutions or parts of ordinances and resolutions in conflict hereto are hereby repealed; provided, however, that nothing herein contained shall affect any rights, actions or causes of action which shall have accrued to the Village prior to the effective date of this Resolution. Specifically, all of those provisions of Resolution No. 96-06, shall remain in full force and effect except as varied hereto.

SECTION 8. EFFECTIVE DATE. This Resolution shall be in full force and effect from and after its passage, approval and publication as provided by law.

SECTION 9. RESOLUTION NUMBER. This Resolution shall be known as Resolution No. 98-07.

**ADOPTED BY ROLL CALL VOTE AS FOLLOWS:**

**AYES:** 6-Cashman, Emery, Hebda, Black, Koch, Henley

**NAYES:** 0-None

**ABSENT:** 0-None

**NOT VOTING:**

**PASSED:** 3/24/98

**APPROVED:** 3/24/98

**PUBLISHED IN PAMPHLET FORM:** 4/03/98

VILLAGE OF VERNON HILLS

By: Angela L. Boyd  
Village President



**ATTEST:**

Jeanne M. Schwartz  
Village Clerk

bic\vernon\greggs-resolution-amend-rpud

Village of Vernon Hills  
Community Development Department - Building Division  
290 Evergreen Drive, Vernon Hills, IL 60061  
Phone 847-367-3704 - Fax 847-367-2541 - [http:// www.vernonhills.org](http://www.vernonhills.org)

# CONSTRUCTION HOURS

ORDINANCE NUMBER 2000-39

ORDINANCE NUMBER 2000-39

AN ORDINANCE AMENDING THE CODE OF  
ORDINANCES OF THE VILLAGE OF VERNON  
HILLS, CHAPTER 14, SECTION 14-226(b)(9) –  
PERTAINING TO THE HOURS OF  
CONSTRUCTION.

WHEREAS, in order to clarify certain provisions of the existing ordinance;

NOW, THEREFORE, BE IT ORDAINED BY THE PRESIDENT AND THE  
BOARD OF TRUSTEES OF THE VILLAGE OF VERNON HILLS, ILLINOIS AS  
FOLLOWS:

SECTION I. That Chapter 14, Section 14-226(b)(9) of the Village of Vernon Hills Code, is hereby amended and approved to read as follows:

Section 14-226(b)(9).            Construction, repairing, etc., of buildings and streets.

*Construction, repairing, etc., of buildings and streets.* Any activity in the construction of any building or structure (including excavating, demolition, alteration or repair) or the laying of pavement, including but not limited to the making of an excavation, clearing of surface land, and loading or unloading material, equipment or supplies, anywhere in the village except between the hours of 7:00 a.m. and 7:00 p.m. on weekdays, and, except between the hours of 8:30 a.m. and 5:00 p.m. on Saturday, is prohibited; provided that this subsection shall not be construed to apply to any person doing work on premises owned by him and not for compensation. It shall be unlawful to engage in any such work or activity on Sunday, or at any time other than as prescribed above, unless the Building Commissioner has first issued a special permit for such work. Application for such permits shall be made in writing, stating the proposed day(s) and time(s) of operation. No special permit shall be issued or allowed to continue that is determined to be contrary to the public welfare.

Exceptions. Notwithstanding the provisions of this subsection (9):

- a. Interior remodeling and maintenance activity is permitted within office, retail, manufacturing, and other commercial buildings where the activity will be limited to wholly within the building and where all remodeling and maintenance activity, running of compressors, generators, saws, the delivery of materials, and dumping and storage of debris occurs wholly within the building.
- b. Construction activity performed, outdoors, is permitted when said activity is located 1000 feet or more from a residentially occupied property, measured in the most direct route and when a special permit is issued by the Building Commissioner.
- c. The stripping and seal-coating of parking lots not located immediately adjacent to a residentially occupied property.
- d. Activity performed in conjunction with a public improvement project and when authorized by the Village Manager.

Nothing in this section shall be construed to prevent any work necessary to prevent injury to persons or property at any time.

Penalty for violation. Any person, party, firm, or corporation who violates any of the provisions of this Ordinance shall be subject to a penalty of not more than Five Hundred (\$500) Dollars per day. Each day that a violation continues shall constitute a separate offense. The Village may seek forfeiture of any contractor's bond, in place with the Village, as a means of satisfying any penalties assessed for violations of this ordinance.

SECTION II. Severability. In the event that any section, clause, provision, or part of this ordinance shall be found and determined to be invalid by a court of competent jurisdiction, all valid parts that are severable full force and effect. If any part of this ordinance is found to be invalid in any one or more of its several applications, all valid applications that are severable from the invalid applications shall remain in effect.

SECTION III. Repeal and Savings Clause. All ordinances or parts of ordinances in conflict herewith are hereby repealed; provided, however, that nothing herein contained shall affect any rights, actions or causes of action which shall have accrued to the Village of Vernon Hills prior to the effective date of this ordinance.

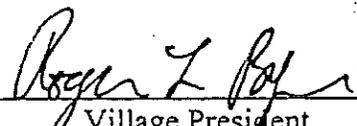
SECTION IV. Effective Date. This ordinance shall be in full force and effect from and after its passage, approval and publication in pamphlet form as provided by law.

SECTION V. This ordinance shall be known as Ordinance 2000-39.

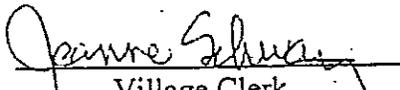
Adopted by roll call vote as follows:

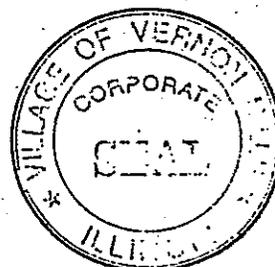
Ayes: Cashman, Henley, Koch, Ryg  
Nays: None  
Absent and not voting: Black, Hebda

Passed: 5/16/2000  
Approved: 5/16/2000  
Published in pamphlet form: 6/26/2000

  
\_\_\_\_\_  
Village President

Attest

  
\_\_\_\_\_  
Village Clerk



**Village of Vernon Hills**  
**Community Development Department**  
January 30, 2002

**Residential Chimney and Vent Enclosure, Flashing, & Spark Arrestor/Rain  
Cap Specifications for Gregg's Landing.**

1. All chimneys and vents used for venting wood burning appliances or gas-fueled fireplaces shall be enclosed in a chimney chase. Exterior finish materials shall match or compliment the predominant exterior finish material of the dwelling. All portions of the venting system including termination spark arrestors and rain caps that penetrate through the chimney chase shall be black in color.
2. All intake and exhaust vents used for venting water heaters, furnaces and similar appliances that penetrate through the roof shall be installed at the minimum height allowed by the manufacturer specifications. Ideally, vents shall be installed below the ridge of the roof so the vent is not visible when viewed from the front property line. All portions of the venting system, including termination rain caps, may remain their natural color when installed through the roof.
3. If manufacturer specifications require an intake or exhaust vent to terminate more than three feet above the roof, said vent shall be enclosed in a chimney chase. All portions of the vents, including termination rain and spark arrestor caps that penetrate a chimney chase shall be black in color. It is preferred that all intake or exhaust vents are grouped within the same enclosure when more than one is present.
4. For framed chimney chases, the metal flashing that is placed on the top of the chase and that extends two (2) to three (3) inches around all sides, shall be copper-colored.

**REQUIREMENTS FOR  
SUBMITTING FOR PERMIT  
BUILDING DIVISION**

Village of Vernon Hills  
Community Development Department  
290 Evergreen Drive, Vernon Hills, IL 60061  
Phone 847-367-3704 - Fax 847-367-2541 [http:// www.vernonhills.org](http://www.vernonhills.org)

**PERMIT APPLICATION PROCESS- NEW CONSTRUCTION  
RESIDENTIAL USE GROUPS**

1. Submit a completed **Building Permit Application and Contractors List** along with the appropriate plan review fee.
2. Submit a signed "**Notice of Understanding**" form for Certificate of Occupancy requirements. (Form may be obtained through the Building Division).
3. Submit an **Architectural Approval Letter** from the building owner/developer/or Association. (If applicable).
4. Submit a **Rescheck** signed and dated by the architect.
5. Submit **3 sets of plans** (30" X 42" max. paper size) consisting of the following:
  - A. Construction plans sealed by an Illinois architect or structural engineer
  - B. Plumbing Plans
  - C. Electrical Plans and Calculations
  - D. Mechanical Plans
  - E. Construction Specifications
6. Submit **4** plats of survey and grading plans
7. Submit **cut sheets / specifications** listing pertinent information and **manufacturer's installation guidelines** for the following:
  - A. Mechanical Equipment (Furnace/Air Conditioners)
  - B. Water Heaters
  - C. Skylights
  - D. Truss Certificates sealed by an Illinois structural engineer
  - E. Laminated Beams
8. Submit the yellow copy of the **Lake County Sewer and Water Permit** (Note: The building permit application will be accepted for plan review prior to us receiving this, but once approved, the building permit will not be released until we have a copy).
9. **Roofing contractors** shall submit a copy of their current State License. **Plumbing contractors** shall submit a copy of their current State License and Contractor's Registration. **Electrical contractors** shall submit a copy of their Municipal Registration from a testing municipality prior to the building permit being issued.

10. When the cost of construction is in excess of \$100,000.00, the general contractor shall submit a **Certificate of Insurance** with the Village of Vernon Hills as an additional insured as well as the certificate holder prior to the building permit being issued.
11. Note: A **soil report** shall be **ON SITE** after the building permit has been issued, but prior to the footing inspection.
12. Note: A **Spot Survey** shall be submitted to the Building Division after the building permit has been issued, but prior to the installation and inspection of the treated sill plate.

A **spot survey** must show:

- A. Location of the foundation on the lot with measurements to lot lines.
- B. The top of foundation elevation in United States Geological Survey (USGS) datum for comparison to the plot plan.
- C. Variations in elevations in the top of foundation around the perimeter. Show steps in the top of the foundation as well.
- D. The elevation of the top of foundation of the neighboring house, if any, and road curb.

**REQUIREMENTS FOR  
SUBMITTING FOR PERMIT  
ENGINEERING DIVISION**

**Village of Vernon Hills**  
**Community Development Department**  
**290 Evergreen Drive, Vernon Hills, IL 60061**  
**Phone 847-367-3704 - Fax 847-367-2541 - <http://www.vernonhills.org>**

**ENGINEERING SUBMITTAL REQUIREMENTS**  
**SINGLE FAMILY RESIDENCES**

All engineering site plans submitted for building permit review and approval by the Engineering Department must include the following information. All plans submitted without the following information will be considered incomplete and revisions will be required.

1. Include 3 engineering site plans, and 1 set of building plans.
2. Show the proposed location and top of foundation grade of the proposed building.
3. Show the existing and proposed driveway, service walk, public sidewalk, and patio locations, size and grade. The driveway and apron slope is to be clearly indicated. The minimum acceptable driveway slope is 2%, with a maximum slope of 8%. The driveway apron is to be conformance with Exhibit 34 of the Vernon Hills Code. (Attached) Any proposed improvements to village infrastructure shall conform to current village standards.
4. Show existing and proposed location, associated rim elevation of structures and pipe invert elevations of public utilities (sanitary and storm sewer system, watermain system, street lighting system, and right-of-way improvements).
5. Show existing and proposed locations and size of private utilities (sanitary, water and sump pump service lines).
6. Show existing and/or proposed curb and pavement location and grade.
7. Show top of foundation grade, lowest opening and finished ground line of nearest building on adjoining properties.
8. Show the grading plan of subject lot, showing the elevation and direction of flow of all necessary drainage swales and finished ground lines adjacent to the proposed buildings and storm structures.
9. Show the grading plan and finished ground line at the property line of the subject lot with an overlap of 20 feet minimum onto adjoining lots. The bottom of the brick or frame siding of the house should be 6" above finished grade (ground line) of the house. The proposed grading should not interfere with the natural run-off of surface water. Turf swales shall have a minimum grade of 1 percent. The maximum permissible yard slope is 20 percent.
10. Show proposed sediment and erosion control measures.

11. Show the location and elevation of the benchmark used for the survey.
12. All Special Management Areas (i.e. Floodplains, floodways, wetlands, etc.) are to be accurately located and labeled on the plans.
13. The drawing is to be scaled, with the proper scale indicated, and a north arrow provided.
14. Show the elevation, and distance to the nearest inlet for surface drainage.
15. A Registered Professional Engineer or Land Surveyor shall provide all topographical details and grades. The plan is to be signed and sealed by the Registered Professional.
16. Any trees that are to be preserved on the site are to be shown, including preservation method, the diameter, species and elevation of their bases.

The following are recommended minimum standards that should be used as a general guide:

1. Proposed water service shall be of 1 ¼" type K copper with a required depth of not less than 5.5 feet. Its location must be indicated so as to fall outside the drive and within no less than 10' from the sewer unless otherwise approved by the Plumbing Inspector.
2. Sump pump discharges shall be direct connected to the storm sewers via 4" PVC with an air gap. All connections to the storm sewer shall conform to Exhibit 43 of Vernon Hills Code.

DATE ISSUED: \_\_\_\_\_

JULIE DIG: \_\_\_\_\_

VILLAGE OF VERNON HILLS  
290 EVERGREEN DRIVE  
VERNON HILLS, IL 60061  
www.vernonhills.org  
(847) 367-3700 FAX: (847) 367-2541



**PERMIT APPLICATION**

ITEMS 1 THROUGH 6 MUST BE COMPLETED FOR ALL PERMITS

APP#: \_\_\_\_\_

1.	Job Address:	Lot #
2.	Commercial Project Name:	
3.	Description of Work to be Performed:	
4.	Estimated Market Value of Work Under This Permit \$	
5.	Owner/Management Company:	
	Address:	Phone:
6.	Building Information: (Proposed use of the building/seasonal occupancy/storage/manufacturing, etc.)	

7.	Signs:	Wall <input type="checkbox"/>	Ground <input type="checkbox"/>	Other <input type="checkbox"/>	Temporary <input type="checkbox"/>	Illuminated <input type="checkbox"/>	Non-illuminated <input type="checkbox"/>
	Height:	Width:	Area:	Bldg Frtg:			

8.	Fire Protection System:	Type:	# of Heads:
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9.	Building and Site Data: (Applies to new construction or major remodeling only)						
	Use Group:	Construction Type:	Lot Size: (sq ft)				
	# of Bedrooms:	# of Bathrooms:	# of Stories:	Bldg. Height:			
	Size of New Electric Service:	# of New Electrical Circuits:					
	Area of Footprint:	1 <sup>st</sup> Floor Area:	2 <sup>nd</sup> Floor Area:	Total Area:			
	Occupants Per Floor:	Total Occupants:	# of Employees:				
	Design Live loads	Floors:	Roof:	Wind:			
	Parking Spaces	Total:	Handicap:				

This application shall be accompanied by complete sets of plans, 1/4" scale, max size 30" x 42", including all construction documentation (specifications, structural calculations, material lists, etc.), plat of survey of the premises showing the location of all existing and proposed structures, and grading plan. An appropriate plan review fee shall be paid at the time of the application.

OFFICE USE ONLY	
Plan Review Fees Paid	\$
Consultant Fees Paid	\$
Plan Review Fees Balance	\$
Consultant Fees Balance	\$
Permit Fee	\$
Permit Fee Balance	\$
Penalty (work without permit)	\$
Refundable Bond	\$
Sign Fee	\$
Civil/ Landscaping	\$
Fire Department	\$
Park Donation	\$
High Schools	\$
Elementary Schools	\$
Grading	\$
Golf Course	\$
Cultural Center	\$
Custom Home Surcharge	\$
Other	\$
<b>TOTAL</b>	<b>\$</b>

The Applicant hereby certifies to the correctness of the information provided and agrees to perform construction in strict compliance with all provisions of the Zoning Ordinance and the Building Regulations of the Village Code and Amendments thereto.	
Signature:	
Printed Name:	
Company Name:	
Address:	
City, State, Zip:	
Phone:	
Approved:	
Building Official	Date

**VILLAGE OF VERNON HILLS**  
**290 EVERGREEN DRIVE**  
**VERNON HILLS, IL 60061**  
[www.vernonhills.org](http://www.vernonhills.org)  
 (847) 367-3700 fax: (847) 367-2541

**CONTRACTORS LIST**

**PROJECT NAME:** \_\_\_\_\_

**SITE ADDRESS:** \_\_\_\_\_

TRADE	NAME	PHONE	ADDRESS, CITY, STATE, ZIP (Post Office Boxes are Unacceptable)	OFFICE USE
				LICENSE
Alarm				
Carpenter				
Concrete				
Drywall				
Electrician				
Excavator				
Fence				
Fire Sprinkler				
General				
Glass (Structural)				
HVAC				
Insulator				
Iron Work				
Irrigation				
Low Voltage				
Mason				
Plumber				
Roofer				
Sewer				
Sign				
Telephone				

- Electrician must furnish a copy of registration in municipality administering a test.
- Plumber must furnish a copy of Illinois state plumber license and contractor registration.
- Roofing contractor must provide copy of Illinois state license.
- For projects with value in excess of \$100,000 general contractor must furnish a copy of Certificate of Insurance covering the property (General Liability and Workman's Compensation), assigned to the Village of Vernon Hills, and showing the Village of Vernon Hills as an additional insured.
- All of the above information including copies of licenses are to be provided with the permit application, but in no case later than 2 days before permit is issued.

**Village of Vernon Hills  
Community Development Department  
NOTICE OF UNDERSTANDING  
Certificate of Occupancy Requirements – Residential Projects**

Project Name \_\_\_\_\_

Property Address \_\_\_\_\_

This Notice of Understanding is provided to avoid delays or monetary forfeitures that may result if the building is occupied prior to the issuance or expiration of a Final or Temporary Certificate of Occupancy. By signature below, the General Building Contractor and owner of subject property acknowledge they have been advised of the Village of Vernon Hills requirements and expectations for obtaining a Certificate of Occupancy.

**Final Certificate of Occupancy**

It is the Village's goal that the building and the exterior property improvements are 100% complete prior to issuance of a Final Certificate of Occupancy. 100% complete includes, but is not limited to:

- The completion and approval of all interior and exterior building and non-building code improvements.
- All finish flooring, cabinetry, electrical & plumbing fixtures, and trim, etc. shall be completely installed and finished in a workmanlike manner.
- Between May 15 and November 15, all exterior private and public sidewalks, driveways, parking areas, utility infrastructure, lawns, and landscaping shall be completely installed and approved.
- Between November 15 and May 15, everything must be completed except hard surface driveway, walk, grade and seed. A gravel base for driveway and walk must be installed and lot must be rough graded to provide positive drainage.
- All as-built surveys and drawings shall be submitted and approved.

**Temporary Certificate of Occupancy**

Section 21 of the Village of Vernon Hills Zoning Ordinance allows the Village to issue a Temporary Certificate of Occupancy when exceptional circumstances exist that prohibit the General Building Contractor or owner from completing the project due to inclement weather or other circumstances beyond their control. In the event, the Building Commissioner or their designee determines a Temporary Certificate of Occupancy should be granted, this Notice shall serve that the undersigned has been fully advised of the requirements for obtaining a Temporary Certificate of Occupancy and the forfeitures in the event the Temporary Certificate of Occupancy is allowed to expire.

**Requirements for Obtaining a Temporary Certificate of Occupancy**

- Submittal of a Temporary Certificate of Occupancy fee of \$100.
- Submittal of all approved inspection reports authorizing the issuance of a Temporary Certificate of Occupancy.

**Forfeiture of Permit Completion Bond – Expiration of Temporary Certificate of Occupancy**

- In the event the Temporary Certificate of Occupancy expires, the Village shall deduct \$500 from the *Permit Completion Bond* on the first day following the expiration date of the Temporary Certificate of Occupancy and an additional \$500 for each thirty (30) days thereafter from the original expiration date of the Temporary Certificate of Occupancy until such time a Final Certificate of Occupancy has been issued.
- If the *Permit Completion Bond* becomes depleted because of failure to obtain a Final Certificate of Occupancy, the Village shall record a Notice of Non-Compliance against the property with the Lake County Recorder of Deeds. The \$500 monthly assessment shall continue until such time all outstanding assessments are satisfied and a Final of Certificate of Occupancy has been issued.

Property Owner \_\_\_\_\_ Signature \_\_\_\_\_

Current Address \_\_\_\_\_

Phone \_\_\_\_\_ Date \_\_\_\_\_

General Building Contractor \_\_\_\_\_ Signature \_\_\_\_\_

Current Address \_\_\_\_\_

Phone \_\_\_\_\_ Date \_\_\_\_\_

## GREGG'S LANDING CONSTRUCTION REQUIREMENTS

The following is a list of items required to be incorporated into design of the homes at Gregg's Landing and which must be reflected on the building plans. This list consists of items recently discussed with some of the builders and is designed to clarify and not to substitute the Village Code requirements. The Village Code, the Cuneo Annexation Agreement and the Development Agreement are the documents controlling the design and construction requirements for the Gregg's Landing project.

1. Not more than 12" of foundation walls shall be exposed at any point around a building. Not more than 6" is preferred when masonry or synthetic stucco veneer is used, and not more than 8" inches is preferred when cedar siding is used.
2. Where engineered wood products, such as truss joists and floor trusses, are utilized in floor/ceiling construction they must be completely enclosed by building construction.

EXCEPTION: Such enclosure shall not be required when a limited area sprinkler system is installed in accordance with requirements of NFPA 13D to protect such elements.

3. Retaining walls shall be discouraged as individual lot grading components and shall only be permitted with a Village Engineer approval. Retaining walls exceeding 4' in height shall be designed by a Structural Engineer registered in the State of Illinois.
4. Each single-family detached residential unit shall be constructed with a full basement unless precluded by high water table.
5. Each residential unit shall have, at a minimum, a two-car garage and two additional parking spaces immediately adjacent to the unit. This requirement shall not apply to multi-family residential units classified as R-2 Use Group type dwelling units with shared garages.
6. Face brick of a minimum of four inches (4") nominal thickness (typical), or the equivalent natural material, shall be installed on all sides of the first floor of each residential unit, unless specifically varied at the time of development permit approval by resolution of the Village Board.
7. Face brick or equivalent natural material shall be installed on all sides of any chimney.
8. Face brick, cedar siding or equivalent quality material approved by the

village, shall be installed in all sides of the second floor of each residential unit.

9. Vinyl windows, if used, shall be of premium quality. Manufacturer brochures and specifications shall be submitted to the Building Department as part of the construction documents to be reviewed as part of the Building Permit submittal process.
10. Roof shingles shall be random tab, laminated architectural shingles of 265 pounds (25 years minimum warranty), or heavier material. Shingles are not required for flat roof buildings constructed as multi-family, Use Group R-2 dwelling units. The Developer Architectural Review Committee may impose stricter standards.
11. If a home to be constructed is a single family detached home, the minimal habitable area for the home shall be set forth as follows:
  - (a) In pods with minimum lot size of up to 11,999 square feet, minimum habitable area of a home shall be 2,150 square feet.
  - (b) In pods with a minimum lot size of a minimum of 12,000 square feet to 14,999 square feet, minimum habitable area of a single-family detached home shall be 2,300 square feet.
  - (c) In pods with a minimum lot size of 15,000 square feet or greater, minimum habitable area of a single-family home shall be 2,600 square feet.

All numbers are net of basement areas.

12. For all other dwelling unit types the minimum residential unit size shall be as follows:
  - (a) For two-family attached and single-family attached (townhomes) residential units the minimum unit size shall be as follows:

2 bedrooms	1,400 square feet
3 bedrooms	1,600 square feet
4 bedrooms	1,800 square feet
  - (b) For multi-family dwelling units, classified as R-2 Use Group, as constructed with shared parking garages, the minimum unit size shall be as follows:

1 bedroom	1,000 square feet
2 bedrooms	1,200 square feet

3 bedrooms	1,400 square feet
4 bedrooms	1,600 square feet

13. The maximum floor area ratio for all single-family residential units (except patio homes) are as follows:
- (a) For all lots not adjacent to the golf course, or public open space FAR shall be 0.36.
  - (b) For all lots adjacent to the golf course or other public space FAR shall be 0.41.

NOTE: Adjacent is where a rear or side lot line, for a distance of a minimum 40 feet, is on the boundary of golf course or public open space parcels.

14. The generation of blowing dust shall be inhibited during the entire period of construction and the soil tracked off-site by construction vehicles shall be removed from pavement immediate, but in no case later than the end of the day. The Village Site Management and Erosion Control guidelines shall be strictly followed.
15. The following are some of the local Code requirements which apply to residential construction:
- (a) **Exterior wall sheathing to be wrapped.** In all wood frame construction, all exterior wall sheathing shall be wrapped with a minimum of fifteen (15) pound felt or approved equal material before the weather covering is applied.
  - (b) **Wood floor trusses.** Floor trusses for kitchen areas shall be installed sixteen (16) inches o.c., minimum, and floor trusses shall be doubled under all parallel partitions above, unless said partitions extend less than half the distance of the floor span, in which case, blocking every four (4) feet o.c. will be acceptable.
  - (c) **Floor joists.** Where floor joists are used, they shall be doubled under parallel partitions above. Floor joist sizes and spans shall not be less than those computed in accordance with the latest edition of Western Wood Products Association Western Lumber Span Tables.
  - (d) **Foundation/footings and walls for additions.** All additions or attachments to any principal building, other than decks and screen porches, shall have foundation walls extended at least forty-two (42) inches below grade and shall bear on an undisturbed ground of adequate bearing strength for the full length of the walls of the

additions. There shall be a minimum of eight (8) inches and maximum of twelve (12) inches of exposed concrete above the finished grade for all frame construction and four (4) inches for solid masonry.

- (e) **Gutters and Downspout.** Roofs of all buildings shall have the means concentrating storm water and conveying it to a storm sewer. Downspout of all buildings, except single-family detached dwellings, shall be directly connected to a storm sewer. Residential downspout not connected to the storm sewer shall discharge onto splash blocks. The discharged water shall not be allowed to flow across walking or driving surfaces. If this can not be achieved, the downspout shall be directly connected to a storm sewer.
- (f) **Window wells.** All window wells shall have a protective cover to prevent people and animals from falling into the well.
- (g) **Contractor responsibilities.**
  - 1) It shall also be the duty of all contractors to comply with all provisions of the Village Code relative to their activities as contractors and, in addition thereto, to remove or cause to be removed at least once a week from the construction site all trash, refuse and waste materials.
  - 2) Where permanent sanitary facilities are not available, contractors shall provide temporary facilities for his workers.
  - 3) Contractors shall at all times keep the site of activities in an orderly condition, free from standing water, unguarded dangerous implements, and conditions, threatening to public health, life, safety and welfare.
  - 4) Construction vehicles shall only be parked on one side of a street, the side opposite of the fire hydrants.

Village of Vernon Hills  
Community Development Department  
Requirements for Concrete Slabs  
Fibermesh & Wiremesh  
March 29, 2002

Residential Property

1. All concrete slabs/flatwork on grade shall:
  - include a "Fibermesh" additive.
  - be a minimum of 4 inches (102 mm) thick.
  - be placed upon a compacted gravel base. The gravel base shall be no less than four (4) inches thick.
  
2. All exterior concrete slabs/flatwork on grade and those within garages shall:
  - include a "Fibermesh" additive.
  - be reinforced with a minimum of 6 inch (152 mm) by 6 inch (152 mm) by 10 gauge welded wire fabric reinforcement.
  - be a minimum of 4 inches (102 mm) thick.
  - be placed upon a compacted gravel base. The gravel base shall be no less than four (4) inches thick.
  
3. All exterior concrete slabs/flatwork on grade greater than four (4) inches thick must have a minimum of 6 inch (152 mm) by 6 inch (152 mm) by 10 gauge welded wire fabric reinforcement supported in some manner to assure the wire mesh is located in the top one-third of the thickness of the concrete.

*Exceptions:*

- Welded wire fabric reinforcement is not required in concrete slabs less than 5 feet (1524 mm) in width. "Fibermesh" only O.K.
  
- "Fibermesh" is not required in patios with an exposed aggregate finish.

Commercial Property

1. All concrete slabs/flatwork on grade shall be installed in accordance with the above unless otherwise specified by a licensed architect/engineer on the approved plans.

VERNON HILLS CODE

- the floor as a design temperature in all habitable rooms, kitchens and bathrooms.
3. *Section 309* is amended to read as follows:  
Section 309 - Attached garages  
309.1 General: All attached garages shall be designed and constructed in accordance with 1996 BOCA National Building Code Sections 407.0 as amended.
  4. *315.3, Guardrail details*, is amended to require guardrails on open sides of porches, balconies, raised floor areas and stairs located 18 inches or more above the floor or grade below.
  5. *Section 320* is amended to read as follows:  
320 Dwelling unit separation.  
Where two dwelling units are separated by a common wall and/or a floor/ceiling assembly, the design and construction of such separations shall be in accordance with 1996 BOCA National Building Code Section 310.5 as amended.
  6. *Section 325* is added to read as follows:  
Section 325 - Storage shed.  
Storage sheds made of wood and/or masonry only are allowed, when built in accordance with a design which has been approved by the Code Official. A foundation system may not be required for a wood shed, but in any event, all sheds shall be securely anchored either to the foundation or to the ground, when foundation is not required. Anchoring to the ground shall be accomplished by means of metal ground screws, metal stakes or treated wood stakes. No metal sheds are allowed to be installed on any property in the Village.
  7. *Section 326* is added to read as follows:  
Section 326 - Fire suppression systems.  
326.1 General: Automatic fire suppression system, when provided, shall be designed, installed and maintained in accordance with 1996 BOCA National Building Code Chapter 9 as amended.
  - d.
    1. *Section 402.1, Wood foundations*, is deleted.
    2. *Section 403.2, Footings for wood foundations*, is deleted.
    3. *Section 404* is amended to disallow the construction of masonry foundations.
    4. *Section 401.4, Soil Test*, is amended by adding the following text:  
In any event footings shall not be installed on soils having bearing capacity of less than 3000 psf without being engineered by a State of Illinois Registered Structural Engineer.
    5. *Section R-404.3, Wood foundation walls*, is deleted.
    6. *Section R-404.3* is added to read as follows:  
404.3 Reinforcement: A minimum of two #4 steel reinforcement bars shall be placed continuously at top and bottom of all concrete foundation walls unless otherwise provided by a structural design.
    7. *Section 405.2, Wood foundations*, is deleted.
    8. *Section 406.3, Dampproofing for wood foundations*, is deleted.
    9. *Section 409.2* is amended to read as follows:  
409.2 Access. An access crawl hole of 22 inches by 30 inches shall be provided to the under-floor space.
    10. *Section 409.5* is added to read as follows:  
409.5 Crawl space height. The bottom of the floor joists shall be at least 36 inches above the level of the earth under the building. The crawl space walls shall be insulated with a minimum of R-3.5 insulation material. A crawl space shall be provided with at least one heat supply opening.
  - e.
    1. *Section 502.12* is added to read as follows:  
502.12 Protection. When light weight engineered wood structural members are

BUILDINGS AND BUILDING REGULATIONS

used in floor and ceiling assemblies, they shall be protected by one of the following methods:

1. 1/2" gypsum board, taped, with openings limited to heat registers and light fixtures.
2. Suspended ceiling listed by an approved agency as a component of a 1-hour fire rated assembly.
3. An approved automatic sprinkler system (see Section 906.0 and Sec. 907.0).

2. Section 503.2.1.1, *Subfloor and combined subfloor underlayment*, is amended by adding the following text:

An underlayment of 1/4-inch minimum thickness or 1 1/2 inches (38 mm) of approved cellular or lightweight concrete shall be installed over floor sheathing under all types of floor covering.

*Exceptions:*

1. Finish floor of 3/4-inch wood strip.
2. Plywood combination subfloor underlayment is used under a finish floor.

3. Section 505.1.1 is added to read as follows:

505.1 Reinforcement. All concrete slabs shall have a minimum thickness of 4 inches and shall be reinforced with a minimum of six (6) by six (6) inch #10 welded wire fabric supported at middepth of the slab by approved means 3 feet on center or an approved equal means of crack control.

*Exception:* 1. Private walks less than five (5) feet wide.

4. Section 505.2.3, *Vapor barrier*, is amended to require a minimum of 6-mil-thick polyethylene vapor barrier under concrete floors.

5. Section 503.3.4 is added to read as follows:

503.3.4 Rooms above unheated spaces. Floors of rooms located above unheated spaces, such as garages, and heating ducts

and water pipes located in such floor, shall be insulated with materials having thermal resistance of R-19 minimum.

- f. 1. *Figure No. 602.3 (b), Framing details*, is amended to disallow the use of two (2) studs to frame corners. A minimum of three (3) studs shall be used.

*Exception:* 2 stud corners are permitted when 2"x 6" studs are utilized.

2. Section 602.3.3, *Top plate*, is amended by deleting exception.
3. Section 602.4.1, *Interior nonbearing partitions*, is deleted.

g. Section 703.2.1, *Felt or material*, is amended by deleting items 2 through 5.

h. Section 1001.9, *Multiple flues*, is amended by adding the following text:

The flues shall be terminated in accordance with ICC Mechanical Code 1996, Section 1605.4.4.

i. Section 1401.5, *Attic installations*, and Section 1401.6, *Crawl space installations*, is amended to provide for a 22 inches by 36 inches access opening.

- j. 1. Section 1902.1, *Return Air*, is amended by adding the following text:

In all habitable rooms the amount of cold air returned or exhausted shall be approximately equal to the amount of air supplied to the room. Air shall be returned through ducts or approved plenums. Hallway or other open spaces shall not be used as plenums. This, however, shall not be construed to prohibit the use of a common return for rooms which are not separated by walls.

2. Section 1902.1.1, *Aboveground duct systems*, is amended by deleting item 6.
3. Section 1903.2 is added to read as follows:

1903.2 Location of registers: There shall be no floor registers installed in kitchens, bathrooms and other areas in locations

Village of Vernon Hills  
**MEMORANDUM**  
Building Department

TO: All Construction Contractors

FROM: Vernon J. Gerth, Building Commissioner  
Allen Smith, Building Inspector

SUBJECT: Firestopping and Draftstopping

DATE: January 26, 2000

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The intent of this memorandum is to clarify what is required by the Codes and Standards adopted by the Village with regard to maintaining the integrity of firestopping and draftstopping. It is hoped that by providing this information to contractors a more uniform enforcement of those requirements may be accomplished.

**Draftstopping:** Is typically found when open truss-type floor framing is present and the floor area exceeds 1,000 square feet. Draftstopping may consist of any of the following: drywall, 3/8 inch plywood or particleboard. It is usually installed parallel to and attached to the floor framing members. Penetrations for conduit, waste and vent piping, water lines or ductwork must be tightly sealed.

**Firestopping:** Is required at the intersection between horizontal and vertical spaces. An example of this is the connection of a wall cavity and the floor/attic cavity above or the floor/basement cavity below. It also occurs at the interconnection between concealed vertical and horizontal spaces such as at soffits, drop ceilings, cove ceilings, etc. Firestopping may consist of any of the following: noncombustible materials, 2 inch nominal lumber, two thicknesses of 1 inch or 3/4 inch lumber with broken lap joints, 1/2 inch gypsum board or 1/4 inch cement board. Penetrations for conduit, waste and vent piping, water lines or ductwork must be sealed with a **noncombustible** product. Products such as "Great Stuff", insulating foam, standard caulking or carpenters glue, or stuffing the openings with fiberglass insulation are not acceptable means of maintaining the integrity of the firestop. The openings must be sealed with a **listed, noncombustible** product.

Attached is a copy of the U.L. Fire Resistance Directory section providing the manufacturer's name, address, brand name and product number for numerous listed **noncombustible** products. The use of any of these products will comply with the code requirements.

The building code also requires that all draftstopping and firestopping be inspected **prior to its concealment**. Therefore it must be inspected when the rough framing is inspected, **not** during the insulation inspection.

# 1999 Fire Resistance Directory

## FIRE RESISTANCE DIRECTORY (BXRH)

### DUCT WRAP MATERIALS (XHHO)—Continued

#### DUCT WRAP MATERIALS

CLASSIFIED BY  
**UNDERWRITERS LABORATORIES INC.**  
 FOR USE IN THROUGH-PENETRATION FIRESTOP SYSTEMS  
 SEE UL FIRE RESISTANCE DIRECTORY  
 (control number)

**CERTAINTED CORP** R5832  
 1400 UNION MEETING RD PO BOX 1100, BLUE BELL  
 PA 19422  
 FlameChek Duct Insulation for use in Through-Penetration Firestop System  
 No. C-AJ-7032.

**ETS SCHAEFER CORP** R15864  
 10380 STATE RTE 43, STREETSBORO OH 44241  
 FIRESTOP BLANKET, FLAMESHIELD or FSB Duct Insulation for use in Through-  
 Penetration Firestop System No. C-AJ-7025.

**MINNESOTA MINING & MFG CO** R9700  
 3M CENTER, ST PAUL MN 55144  
 FireMaster Duct Wrap for use in Through-Penetration Firestop System Nos.  
 CAJ7009, CAJ7013, CAJ7015, CAJ7020, and CAJ7022.

**NELSON FIRESTOP PRODUCTS** R18292  
 4041 S SHERIDAN PO BOX 726, TULSA OK 74101  
 FIRESTOP BLANKET, FLAMESHIELD or FSB Duct Insulation for use in Through-  
 Penetration Firestop System No. C-AJ-7024.

**PREMIER REFRACTORIES INC** R9242  
 901 E 8TH AVE PO BOX 1569, KING OF PRUSSIA PA  
 19406  
 Pyroscat FP Duct Wrap for use in Through-Penetration Firestop System Nos.  
 C-AJ-7018, C-AJ-7033, C-AJ-7034 and C-AJ-7035.

**THERMAL CERAMICS INC** R14229  
 PO BOX 923, AUGUSTA GA 30903  
 Fire Master Duct Wrap for use in Through-Penetration Firestop System Nos.  
 CAJ7004, CAJ7012, CAJ7014, CAJ7019 and CAJ7021.

**UNIFRAX CORP** R14514  
 2351 WHIRLPOOL ST, NIAGARA FALLS NY 14305  
 FyreWrap Duct Insulation for use in Through-Penetration Firestop System No.  
 CAJ7007.

### FILL, VOID OR CAVITY MATERIALS (XHHW)

Classified fill, void or cavity materials are proprietary materials that are installed at the job site in accordance with the application instructions provided with the product and with the instructions specified in the individual joint system, perimeter fire containment system or through-penetration firestop system. Except as specified below, properties of the fill, void or cavity materials other than the capacity to provide a degree of fire resistance to openings provided in fire resistive walls or floors, have not been investigated.

In addition to Classification for use in joint systems, perimeter fire containment systems or through-penetration firestop systems, where indicated in the individual Classifications, fill, void or cavity materials have also been investigated in accordance with ASTM E 136-96a, "Standard Test Method For The Behavior of Materials in a Vertical Tube Furnace at 750 C".

Authorities having jurisdiction should be consulted before installation.

The basic standards used to investigate products in this category are ANSI/UL 1479, "Fire Tests of Through-Penetration Firestops", an assimilation of the methods and conditions of acceptance contained in the ICBO Evaluation Service, Inc. "Acceptance Criteria For Nonload-Bearing Wall Assemblies Containing Combustible Components Using The Intermediate-Scale, Multistory Test Apparatus", AC 108, dated January 1996 and ANSI/UL 2079, "Tests for Fire Resistance of Building Joint Systems".

#### LOOK FOR CLASSIFICATION MARKING ON PRODUCT

The Classification Marking of Underwriters Laboratories Inc. (shown below) on the product is the only method provided by Underwriters Laboratories Inc. to identify products which have produced under its Classification and Follow-Up Service.

## FIRE RESISTANCE DIRECTORY (BXRH)

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### FILL, VOID OR CAVITY MATERIALS (XHHW)—Continued

For fill, void or cavity materials investigated for use in through-penetration firestop systems, the Classification Marking reads:

FILL, VOID OR CAVITY MATERIAL  
 CLASSIFIED BY

**UNDERWRITERS LABORATORIES INC.\***  
 FOR USE IN THROUGH-PENETRATION FIRESTOP SYSTEMS  
 SEE UL FIRE RESISTANCE DIRECTORY  
 (control number)

For fill, void or cavity materials investigated for use in joint systems, the Classification Marking reads:

FILL, VOID OR CAVITY MATERIAL  
 CLASSIFIED BY

**UNDERWRITERS LABORATORIES INC.\***  
 FOR USE IN JOINT SYSTEMS  
 SEE UL FIRE RESISTANCE DIRECTORY  
 (control number)

For fill, void or cavity materials investigated for use in perimeter fire containment systems, the Classification Marking reads:

FILL, VOID OR CAVITY MATERIAL  
 CLASSIFIED BY

**UNDERWRITERS LABORATORIES INC.\***  
 FOR USE IN PERIMETER FIRE CONTAINMENT SYSTEMS  
 SEE UL FIRE RESISTANCE DIRECTORY  
 (control number)

For fill, void or cavity materials investigated for use in firestop systems, joint systems and/or fire containment systems, the Classification Marking reads:

FILL, VOID OR CAVITY MATERIAL  
 CLASSIFIED BY

**UNDERWRITERS LABORATORIES INC.\***  
 FOR USE IN THROUGH-PENETRATION FIRESTOP SYSTEMS AND/OR  
 JOINT SYSTEMS AND/OR PERIMETER FIRE CONTAINMENT SYSTEMS  
 SEE UL FIRE RESISTANCE DIRECTORY  
 (control number)

+ - Where applicable, the following statement may be added to any of the Classification Marking shown above:

FILL, VOID OR CAVITY MATERIAL

ALSO CLASSIFIED BY UNDERWRITERS LABORATORIES INC.  
 IN ACCORDANCE WITH ASTM E 136-96a,  
 "STANDARD TEST METHOD FOR BEHAVIOR OF MATERIALS  
 IN A VERTICAL TUBE FURNACE AT 750 C"

**A/D FIRE PROTECTION SYSTEMS INC** R14608  
 420 TAPSCOTT RD, SCARBOROUGH ON CANADA  
 M1B 1Y4

A/D FireBarrier Silicone S/L for use in System Nos. C-AJ-0017, C-AJ-0029, C-AJ-1116, C-AJ-1117, C-AJ-1129, C-AJ-5027, C-AJ-5064, C-AJ-5065, C-AJ-8023, C-AJ-8024 and C-AJ-8028.

A/D FireBarrier Silicone for use in System Nos. C-AJ-0017, C-AJ-0029, C-AJ-1116, C-AJ-1117, C-AJ-1129, C-AJ-1229, C-AJ-2150, C-AJ-2186, C-AJ-5027, C-AJ-5064, C-AJ-5065, C-AJ-8023, C-AJ-8024, C-AJ-8028, F-C-1011, F-C-1034, F-C-3014, F-C-3027, F-C-5007, F-C-5024, W-J-1064, W-J-2050, W-L-1050, W-L-1066, W-L-1151, W-L-2155, W-L-2156, W-L-2157, W-L-3042, W-L-5031, W-L-8005 and W-L-8006.

A/D FireBarrier Mortar for use in System Nos. C-AJ-1126, C-AJ-1128, C-AJ-1195, C-AJ-1196, C-AJ-5095, C-AJ-7029, C-AJ-7030, C-AJ-8028, C-AJ-8029 and W-L-8005.

A/D FireBarrier Seal for use in System Nos. C-AJ-1125 and C-AJ-1127.

A/D FireBarrier Seal N/S for use in System Nos. C-AJ-1125 and C-AJ-1127.

**AIK FLAMMADUR BRANDSCHUTZ GMBH** R9953  
 INDUSTRIEPARK KASSEL-WALDAU OTTO-HAHN-STRASSE  
 5, 34123 KASSEL-WALDAU FED REP GERMANY  
 Type A107 caulk for use in Joint System Nos. FF-S-0019, FW-S-0002 and WW-S-0026.

Type A107 caulk for use in Through-Penetration Firestop System Nos. CAJ1043 and CAJ1085.

Type AS11 fabric for use in Through-Penetration Firestop System No. CAJ1086

Type E201 putty for use in Through-Penetration Firestop System Nos. CBJ3008, CBJ3009 and CBJ4010.

Type E424 mastic for use in Through-Penetration Firestop System Nos. CBJ3008 and CBJ4010.

Type E473 mortar for use in Through-Penetration Firestop System Nos.: CAJ1042, CAJ1043, CAJ1082, CAJ1083, CAJ1084, CAJ3028, CAJ3046, CAJ4012, CBJ1010, CBJ3008, CBJ3009 and CBJ4010.

Type E983 mortar for use in Through-Penetration Firestop System No. CAJ1082.

## 1999 Fire Resistance Directory

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FIRE RESISTANCE DIRECTORY (BXRH)

FILL, VOID OR CAVITY MATERIALS (XHHW)—Continued

- ALVA-TECH INC** R14091  
910 1ST AVE PO BOX 406, ASBURY PARK NJ 07712  
FB-725 composite sheet for use in System No. CBJ4016.
- AMERICAN VAMAG CO INC** R9868  
1061 LINDEN AVE, RIDGEFIELD NJ 07657  
Type FRP-1 putty for use in System Nos. CBJ1009 and CBJ3007.
- B F GOODRICH CO SPECIALTY POLYMERS & CHEMICALS** R16339  
DIV  
9911 BRECKSVILLE RD PO BOX 41256, BRECKSVILLE OH 44141  
Blazemaster Caulk and Walk for use in Through-Penetration Firestop System Nos. C-AJ-2221, W-L-1147 and W-L-2151.
- BEELE ENGINEERING B V** R13657  
BEUNKDIJK 11, 7122 NZ AALTEN NETHERLANDS  
Type FSP Firestop kit for use in Through-Penetration Firestop System Nos. CAJ4008 and WL4007.  
Type RISE intumescent sleeves for use in Through-Penetration Firestop System Nos. CAJ3081, CAJ3082, CAJ3091 and CAJ3092.  
Type RISE intumescent sheet for use in Through-Penetration Firestop System Nos. CAJ1190 and CAJ3082.  
Type FIWA caulk for use in Through-Penetration Firestop System Nos. CAJ1190, CAJ3081, CAJ3082, CAJ3091, CAJ3092, CAJ4008 and WL4007.
- C R LAURENCE CO INC** R16103  
2503 E VERNON AVE, LOS ANGELES CA 90058  
CRL M64 caulk for use in Joint System Nos. FF-S-0026 and WW-S-0031.
- CARLISLE COATINGS & WATERPROOFING INC** R13859  
8810 W 100TH ST S PO BOX 1600, SAPULPA OK 74066  
QSC-102C caulk for use in Joint System Nos. FFS0011 and WWS0015.
- CHEMREX INC SONNEBORN DIV** R14484  
#1001 889 VALLEY PARK DR S, SHAKOPEE MN 55379  
Sonolastic NP 1 caulk for use in Joint System Nos. FF-S-1013 and WW-S-1016.  
Sonolastic NP 2 caulk for use in Joint System Nos. FF-S-0016, FF-S-1013, WW-S-0020 and WW-S-1016.
- COURTAULDS AEROSPACE INC** R8146  
5454 SAN FERNANDO RD, GLENDALE CA 91203  
Type PR-855 RTV silicone foam, for use in System Nos. CBJ0001, CBJ0002, CBJ1001, CBJ1002, CBJ1003, CBJ1029, CBJ4001, CBJ4003, CBJ4005, CBJ8001, WJ1001, WJ1002, WJ3001, WJ3002, WJ4001 and WJ4002.  
Type PR-805 sealant, for use in System Nos. CAJ0013, CAJ1067, CAJ1068, CAJ1069, CAJ1070, CAJ1071, CAJ1072, CAJ1073, CAJ1074, CAJ1075, CAJ3038, CAJ3039, CAJ3040, CAJ8014, CAJ8015, FC1005, FC3005, FC3006, WL1022, WL1023, WL3019 and WL3020.
- CSL SILICONES INC** R13998  
144 WOODLAWN RD W, GUELPH ON CANADA N1H 1B5  
Type 381 Sealant for use in Through-Penetration Firestop System Nos. C-AJ-0021, C-AJ-0022, C-AJ-1049, C-AJ-1050, C-AJ-5026, C-AJ-8008 and C-AJ-8009.  
Type 382 Sealant for use in Through-Penetration Firestop System Nos. C-AJ-0021, C-AJ-0022, C-AJ-1049, C-AJ-1050, C-AJ-5026, C-AJ-8008 and C-AJ-8009.
- DAP INC** R16136  
SUITE 200 2400 BOSTON ST, BALTIMORE MD 21224  
DAP Firestop Sealant for use in Joint System Nos. FF-S-1022, HW-S-0026, HW-S-0027, WW-S-1026.  
DAP Firestop Sealant for use in Through-Penetration Firestop System Nos. C-AJ-1249, C-AJ-3129, W-L-1123, W-L-2137, W-L-3098, W-L-3099 and W-L-5078.
- DOW CORNING CORP** R8196  
MAIL NO C02310 PO BOX 994, MIDLAND MI 48686  
FS Foam for use in Joint System No. WWS0007.  
170 F.C. Elastomer for use in Joint System No. WWS0019.

FIRE RESISTANCE DIRECTORY (BXRH)

FILL, VOID OR CAVITY MATERIALS (XHHW)—Continued

- 790 Sealant for use in Joint System Nos. FFS0009, WWS0007, WWS0013 and WWS1019.  
795 Sealant for use in Joint System Nos. FFS0009, WWS0007 and WWS0013.  
9-1285 Sealant for use in Joint System No. WWS0007.  
Type 3-6548 Foam, 3-6548 F.C. Foam, 170 F.C. Elastomer, FS Foam, FS Sealant, 795 Sealant, FS Sealant (Self-Leveling), 9-1285 Sealant and 96-081 Sealant for use in Through-Penetration Firestop System No. FB1004.
- DOW CORNING TORAY SILICONE CO LTD** R13623  
AIG BLDG 1-1-3 MARUNOUCHI CHIYODA-KU, TOKYO 100-0005 JAPAN  
Type SE 1900 RTV silicone foam, for use in System Nos. CBJ0001, CBJ0002, CBJ1001, CBJ1002, CBJ1003, CBJ1005, CBJ1029, CBJ4001, CBJ4003, CBJ4005, CBJ8001, WJ0001, WJ1003, WJ3003, WJ3004.
- DSM CHEMIE LINZ GMBH** R13162  
ST PETER STRASSE 25, A-4021 LINZ AUSTRIA  
Intumex MW caulk for use in Joint System Nos. FF-S-0014 and WW-S-0018.  
Intumex S caulk for use in Joint System Nos. FF-S-0014, FF-S-0015, WW-S-0018 and WW-S-0019.  
Intumex F putty for use in Through-Penetration Firestop System No. C-AJ-4011.  
Intumex L wrap strips for use in Through-Penetration Firestop System No. C-AJ-5013.  
Intumex LH wrap strips for use in Through-Penetration Firestop System Nos. C-AJ-2024, C-AJ-2025, C-AJ-2026, W-L-2017 and W-L-2018.  
Intumex MW caulk for use in Through-Penetration Firestop System Nos. C-AJ-1055, C-AJ-3033, W-L-1018 and W-L-3016.  
Intumex PS cushions for use in Through-Penetration Firestop System Nos. W-J-4003 and W-L-3002.  
Intumex S caulk for use in Through-Penetration Firestop System Nos. C-AJ-1056, C-AJ-2024, C-AJ-2026 and C-AJ-5013.  
Intumex V mortar for use in Through-Penetration Firestop System Nos. C-AJ-2024, C-AJ-2025, C-AJ-4011, C-AJ-7029, C-AJ-7030, W-L-2017, and W-L-2018.
- ELCO TEXTRON INC CONSTRUCTION PRODUCTS DIV** R14878  
5110 FALCON RD PO BOX 7009, ROCKFORD IL 61125  
Type CFP 50 Blaze Block intumescent sealant for use in System Nos. C-AJ-1141, C-AJ-1143, C-AJ-2058.
- FIRE-STOP SYSTEMS INC** R10478  
SUITE 200 8807 EMMOTT, HOUSTON TX 77040  
Type Thermalastic 83 coating for use in System Nos. CBJ1027, CBJ3018, CBJ3019, CBJ4017 and CBJ8006.  
Type Thermalastic 83E coating for use in System Nos. CBJ1027, CBJ3018, CBJ3019, CBJ4017 and CBJ8006.  
Type 4300 Caulk for use in System Nos. CBJ0008 and CBJ1026.  
Type 310 Fiber Panel for use in System Nos. CBJ1027, CBJ3018, CBJ3019, CBJ4017 and CBJ8006.  
Type 310 Fiber for use in System Nos. CBJ1027, CBJ3018, CBJ3019, CBJ4017 and CBJ8006.  
Type 400 Fiber for use in System No. CBJ0008 and CBJ1026.
- FIRESTOP SYSTEMS INC** R18335  
1412 DERWENT WAY, DELTA BC CANADA V3M 6H9  
4100NS Sealant for use in Joint System Nos. FF-S-1019, FW-S-1006, HW-D-0024, HW-S-1006, WW-S-1023.  
4100SL Sealant for use in Joint System Nos. FF-S-1019, FW-S-1006.  
4800DW Sealant for use in Joint System Nos. FF-S-1019, FW-S-1006, HW-D-0050, HW-S-1006, WW-S-1023.  
5100SP Sealant for use in Joint System Nos. FF-D-1016, FF-S-1019, FW-D-1016, FW-S-1006, HW-D-0025, HW-D-0026, HW-D-0049, HW-S-1006, WW-D-1016 and WW-S-1023.  
FlowGuard Gold® Firestop Sealant for use in Joint System Nos. FF-S-1024, FW-S-1007, HW-S-1007 and WW-S-1028.  
4100NS Sealant for use in Through-Penetration Firestop System Nos. C-AJ-1238, C-AJ-1239, C-AJ-3115, C-AJ-8061, W-J-4013, W-L-4013, W-L-7014.  
4100SL Sealant for use in Through-Penetration Firestop System Nos. C-AJ-1238, C-AJ-1239, C-AJ-3115, C-AJ-8061.  
4800DW Sealant for use in Through-Penetration Firestop System Nos. C-AJ-1238, C-AJ-1239, C-AJ-1279, C-AJ-1280, C-AJ-1287, C-AJ-1288, C-AJ-1289, C-AJ-2165, C-AJ-2190, C-AJ-2222, C-AJ-2225, C-AJ-2239, C-AJ-2240, C-AJ-3115, C-AJ-3142, C-AJ-5114, C-AJ-5115, C-AJ-7037, C-AJ-8061, C-BK-1005, C-BK-2002, C-BK-3002, F-A-1013, F-A-2030, F-A-2035, F-A-2037, F-A-3004, F-B-1008, F-B-2004, F-B-3007, F-C-1035, F-C-1039, F-C-1047, F-C-1049, F-C-2080, F-C-2093, F-C-2094, F-C-2095, F-C-2124.

## FILL, VOID OR CAVITY MATERIALS (XHHW)—Continued

F-C-3028, F-C-3082, F-C-5026, F-C-5032, W-J-1040, W-J-2038, W-J-3024, W-J-4013, W-J-5031, W-L-1098, W-L-1155, W-L-2126, W-L-3085, W-L-3113, W-L-4013, W-L-4026, W-L-5080, W-L-7014 and W-L-7021.

5100SP Sealant for use in Through-Penetration Firestop System Nos. C-AJ-1279, C-AJ-1280, C-AJ-1287, C-AJ-1288 and C-AJ-1289.

FlowGuard Gold® Firestop Sealant for use in Through-Penetration Firestop System Nos. C-AJ-1251, C-AJ-1252, C-AJ-2185, C-AJ-3130, C-AJ-8068, F-A-2032, F-C-1038, F-C-2085, F-C-2112, F-C-2113, F-C-2114, F-C-3031, W-J-1048, W-J-2042, W-J-3028, W-J-4014, W-L-1130, W-L-2138, W-L-3101, W-L-4014 and W-L-7023.

## FLAME STOP INC

R14090

711 KATY RD, KELLER TX 76248

Type Flame Stop V Caulk for use in System Nos. CAJ1107, CAJ1108, CAJ3034, CAJ5014, CAJ8011, CBJ1024, FC1004, FC2006, FC3004 and FC5001.

Type Flame Stop V Putty for use in System Nos. CAJ1057, CBJ1024 and CBJ2003.

Type Flame Stop VI Sealant for use in System Nos. CAJ1057 and CBJ1025.

Type Flame Stop VP Sealant for use in System Nos. CAJ2022 and CBJ2004.

## FURUKAWA ELECTRIC CO LTD

R11122

6-1 MARUNOUCHI 2-CHOME CHIYODA-KU, TOKYO 100  
JAPAN

Type N Kit for use in System No. CAJ4004.

Type NP Kit for use in System No. CAJ3012.

Type SEF 1900 RTV silicone form, for use in System Nos. CBJ0001, CBJ0002, CBJ1001, CBJ1002, CBJ1003, CBJ1005, CBJ4001, CBJ4003, CBJ4005, CBJ8001, WJ0001, WJ1003, WJ3003 and WJ3004.

## GENERAL ELECTRIC CO SILICONE PRODUCTS DIV

R8325

260 HUDSON RIVER RD, WATERFORD NY 12188

Pensil 100 sealant for use in Joint System Nos. FF-S-0013 and WWS0017.

Pensil 200 foam for use in Joint System Nos. FF-D-1006, FW-D-1005, HW-D-1004 and WW-D-1005.

Pensil 300 sealant for use in Joint System Nos. FF-D-1006, FF-S-0013, FF-S-0020, FF-S-1009, FW-D-1005, HW-D-1004, WW-D-1005, WW-S-0017, WW-S-0023, WW-S-0029, WW-S-1009 and WW-S-1010.

Pensil 300 S/L (Self Leveling) sealant for use in Joint System Nos. FF-S-0013, FF-S-0020 and FF-S-1009.

RTV6428 silicone material for use in Through-Penetration Firestop System Nos. W-K-1001, W-K-1003, W-K-1004 and W-K-4001.

Pensil 100 silicone caulk for use in Through-Penetration Firestop System Nos. C-AJ-0006, C-AJ-1030, C-AJ-1045, C-AJ-1048, C-AJ-3023, C-AJ-5010, C-AJ-6003, W-L-1033 and W-L-1062.

## GPG FIRE SYSTEMS AB

R18679

BOX 7058 TUMSTOCKVAGEN 17, 187 11

TABY/ARNINGE SWEDEN

Type GPG Compo mortar fill material for use in Through-Penetration Firestop System Nos. C-AJ-0059, C-AJ-1303, C-AJ-3143, C-AJ-4043, W-L-0009, W-L-1163 and W-L-4020.

## GRUNAU ILLERTISSEN BMBH

R14557

POSTFACH 10 63, 89251 ILLERTISSEN FED REP

GERMANY

Type KBS Sealbags for use in System Nos. C-BJ-0009, C-BJ-1018, C-BJ-2001 and C-BJ-4014.

Type KBS Mortar Seal for use in System Nos. C-AJ-7029, C-AJ-7030, C-BJ-0011 and C-BJ-4015.

## HILTI AG

R14921

TECHNICAL CENTER / XTO 9494 SCHAAN,

FUERSTENTUM LIECHTENSTEIN

CP611 caulk for use in System Nos. C-AJ-1159, C-AJ-3072, W-L-1061 and W-L-3053.

CP631 mortar for use in System Nos. C-AJ-2065, C-AJ-4019, C-AJ-7029, C-AJ-7030, W-L-2056 and W-L-2057.

CP651 cushions for use in System Nos. W-J-4006 and W-L-3052.

CP681 putty for use in System No. C-AJ-4019.

## HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC

R13240

5400 S 122ND EAST AVE, TULSA OK 74146

CP601S Sealant for use in Joint System Nos. CG-S-0003, FF-D-1011, FF-S-2001, FF-S-3001, FW-D-1011, HW-D-1008, WW-D-1011, WW-S-2003, WW-S-2004, WW-S-2007, WW-S-3004, WW-S-3005 and WW-S-3008.

## FILL, VOID OR CAVITY MATERIALS (XHHW)—Continued

CP606 Sealant for use in Joint System Nos. FF-D-1012, FW-D-1012, HW-D-1009 and WW-D-1012.

CP672 Firestop Joint Spray for use in Joint System Nos. HW-D-0042 and HW-D-0049.

FS601 Sealant for use in Joint System Nos. CG-S-0003, FF-S-1008, FW-S-1002, FF-S-2001, FF-S-3001, HW-D-0003, HW-D-0004, HW-D-0005, HW-D-0008, HW-D-0010, WW-S-1011, WW-S-2003, WW-S-2004, WW-S-2007, WW-S-3004, WW-S-3005 and WW-S-3008.

FS601 Sealant for use in Through-Penetration Firestop System Nos. C-AJ-1149, C-AJ-1150, C-AJ-1151, C-AJ-1152, C-AJ-1158, C-AJ-1177, C-AJ-2094, C-AJ-2110, C-AJ-3070, C-AJ-5048, F-A-2025, F-C-1009, W-J-7001, W-L-1052, W-L-3048, W-L-3065 and W-L-7003.

FS604 Sealant for use in Joint System Nos. FF-S-1008 and FW-S-1002.

FS604 Sealant for use in Through-Penetration Firestop System Nos. C-AJ-1149, C-AJ-1150, C-AJ-1151, C-AJ-1152, C-AJ-1158, C-AJ-1177, C-AJ-2094, C-AJ-3070 and C-AJ-5048.

FS605 Sealant for use in Through-Penetration Firestop System Nos. C-AJ-1153, C-AJ-1154, C-AJ-1156, C-AJ-1172, C-AJ-1173, C-AJ-1174, C-AJ-2118, B-AJ-3078, C-AJ-3079, C-AJ-5057, C-AJ-5069, C-AJ-5061, C-AJ-8038, W-J-1020, W-J-1021, W-J-1022, W-J-8004, W-L-1055, W-L-1057, W-L-1058, W-L-1085, W-L-3058, W-L-3059, W-L-5046, W-L-5047 and W-L-8004.

FS611A Sealant for use in Joint System Nos. HW-D-0003, HW-D-0005, HW-D-0008 and HW-D-0010.

FS611A Sealant for use in Through-Penetration Firestop System Nos. C-AJ-2062, C-AJ-2066, C-AJ-2098, C-AJ-3069, C-AJ-3096, C-AJ-5045, C-AJ-5046, C-AJ-5047, C-AJ-8044, C-BJ-5007, F-A-2025, F-C-2018, F-C-2025, F-C-2029, F-C-2030, F-C-2050, F-C-5004, W-L-2051, W-L-2052, W-L-2053, W-L-2055, W-L-2075, W-L-2098, W-L-3045, W-L-3046, W-L-3047, W-L-3049, W-L-3071, W-L-4006, W-L-5016, W-L-5021, W-L-5022, W-L-5024, W-L-5025, W-L-5026, W-L-5027, W-L-5028 and W-L-5029.

FS635 for use in Through-Penetration Firestop System Nos. C-AJ-1140, C-AJ-4017 and C-AJ-6006.

FS-ONE Sealant for use in Joint System Nos. H-WD-0003, H-WD-0005, H-WD-0008, H-WD-0010.

FS-ONE Sealant for use in Through-Penetration Firestop System Nos. C-AJ-1149, C-AJ-1150, C-AJ-1151, C-AJ-1152, C-AJ-1153, C-AJ-1154, C-AJ-1155, C-AJ-1156, C-AJ-1158, C-AJ-1172, C-AJ-1173, C-AJ-1174, C-AJ-1177, C-AJ-1226, C-AJ-1278, C-AJ-1291, C-AJ-2062, C-AJ-2066, C-AJ-2091, C-AJ-2094, C-AJ-2098, C-AJ-2110, C-AJ-2118, C-AJ-2141, C-AJ-2164, C-AJ-2167, C-AJ-2168, C-AJ-2169, C-AJ-2170, C-AJ-2192, C-AJ-2217, C-AJ-2218, C-AJ-2220, C-AJ-3069, C-AJ-3070, C-AJ-3078, C-AJ-3079, C-AJ-3095, C-AJ-3096, C-AJ-4034, C-AJ-4035, C-AJ-5044, C-AJ-5045, C-AJ-5046, C-AJ-5047, C-AJ-5048, C-AJ-5057, C-AJ-5061, C-AJ-5069, C-AJ-5090, C-AJ-5091, C-AJ-5096, C-AJ-5098, C-AJ-6017, C-AJ-8038, C-AJ-8041, C-AJ-8044, C-AJ-8056, C-AJ-8058, C-BJ-1037, C-BJ-5007, C-BJ-8010, F-A-2025, F-C-1009, F-C-2018, F-C-2025, F-C-2029, F-C-2030, F-C-2050, F-C-2063, F-C-2071, F-C-2072, F-C-2081, F-C-2125, F-C-2127, F-C-2128, F-C-2142, F-C-3012, F-C-5004, F-C-8014, W-J-1020, W-J-1021, W-J-1022, W-J-1041, W-J-1042, W-J-1058, W-J-4016, W-J-5028, W-J-7001, W-J-8004, W-J-8007, W-J-8008, W-J-8009, W-L-1054, W-L-1055, W-L-1056, W-L-1057, W-L-1058, W-L-1085, W-L-1095, W-L-1110, W-L-1111, W-L-1148, W-L-2051, W-L-2052, W-L-2053, W-L-2055, W-L-2075, W-L-2098, W-L-2124, W-L-2127, W-L-2128, W-L-3045, W-L-3046, W-L-3047, W-L-3048, W-L-3049, W-L-3058, W-L-3059, W-L-3065, W-L-3071, W-L-3079, W-L-3112, W-L-3122, W-L-4006, W-L-4011, W-L-4019, W-L-4019, W-L-5016, W-L-5021, W-L-5022, W-L-5024, W-L-5025, W-L-5026, W-L-5027, W-L-5028, W-L-5029, W-L-5046, W-L-5047, W-L-5073, W-L-7003, W-L-7017, W-L-7018, W-L-8004, W-L-8013, W-L-8014, W-L-8015.

FS Fire Block for use in Through-Penetration Firestop System Nos. C-AJ-0055, C-AJ-4034, C-AJ-4035, C-AJ-8056, W-J-4016, W-J-8007, W-J-8008, W-L-3079, W-L-4011, W-L-4019, W-L-8013, W-L-8014, W-L-8015.

CP 618 Firestop Putty Stick for use in Through-Penetration Firestop System Nos. C-AJ-0058, C-AJ-1276, C-AJ-1277, C-AJ-3138, C-AJ-3139, W-J-3036, W-L-3111, W-L-3112, W-L-3122.

CP 672 Firestop Spray for use in Joint System Nos. FF-D-1013, FW-D-1013, HW-D-0042.

## INSTANT FIRESTOP MFG INC

R13819

1777 MARYLAND AVE, NIAGARA FALLS NY 14305

Type 305-SL sealant for use in Joint System Nos. FF-S-1012, FW-S-1005.

Type 344-GG sealant for use in Joint System Nos. FF-S-1012, FW-S-1005, HW-S-0008, HW-S-1005 and WW-S-1015.

Type 305-SL sealant for use in Through-Penetration Firestop System Nos. C-AJ-0018, C-AJ-1118, C-AJ-3059, C-AJ-5031, C-AJ-8025 and C-AJ-8037.

Type 344-GG sealant for use in Through-Penetration Firestop System Nos. C-AJ-0018, C-AJ-1118, C-AJ-3059, C-AJ-5031, C-AJ-8025, C-AJ-8037, W-L-1081, W-L-2085, W-L-2089, W-L-3066, W-L-5052 and W-L-8009.

Type C-1000 mortar for use in Through-Penetration Firestop System Nos. C-AJ-1121, C-AJ-2107, C-AJ-4014, C-AJ-5034, C-AJ-7029, C-AJ-7030 and C-AJ-8025.

# 1999 Fire Resistance Directory

2300

## FIRE RESISTANCE DIRECTORY (BXRH)

### FILL, VOID OR CAVITY MATERIALS (XHHW)—Continued

Type HIS240 intumescent wrap strip for use in Through-Penetration Firestop System Nos. C-AJ-2107, C-AJ-8037, W-L-2085, W-L-5052 and W-L-8009.

**INTERNATIONAL PROTECTIVE COATINGS CORP** R11636  
**725 CAROL AVE, OAKHURST NJ 07755**

Types FS1900, FS1901, FS1905 and FS1929 Sealant for use in Joint System Nos. FW-D-0001 and HW-D-0006.

Type FS2900, FS2901, FS2905 or FS2955 Coating for use in Joint System Nos. FF-D-1005, FW-D-1004 and HW-D-0037.

Type KBS Bags for use in Through-Penetration Firestop System Nos. C-BJ-0009, C-BJ-1018, C-BJ-2001, C-BJ-4014, W-L-0002, W-L-3005, W-L-3006, W-L-3007 and W-L-4001.

Type KBS Mortar for use in Through-Penetration Firestop System Nos. C-AJ-1061, C-AJ-1062, C-AJ-1109, C-AJ-1110, C-AJ-1111, C-AJ-7029, C-AJ-7030, C-BJ-0011 and C-BJ-4015.

Type Flame Safe Mortar for use in Through-Penetration Firestop System Nos. C-AJ-0041, C-AJ-1061, C-AJ-1062, C-AJ-1109, C-AJ-1110, C-AJ-1111, C-AJ-1212, C-AJ-2100, C-AJ-4027, C-AJ-6012, C-AJ-8012 and C-BJ-4024.

Type Flame Safe Bags for use in Through-Penetration Firestop System Nos. C-AJ-4024, C-AJ-4038, C-BJ-0009, C-BJ-1018, C-BJ-4023, W-J-3038, W-L-0002, W-L-3006 and W-L-3007, W-L-3118, W-J-4019, and W-L-4025.

Type FS500, FS501, FS503, FS505, FS529, FST601, FST603, FST605, RFS500, RFS501, RFS505, RFST601 or RFST605 Sealant for use in Through-Penetration Firestop System Nos. C-AJ-0005, C-AJ-1008, C-AJ-1026, C-AJ-2007, C-AJ-3020, C-AJ-4025, C-AJ-5004, C-BJ-0003, C-BJ-0006, C-BJ-0010, C-BJ-1007, C-BJ-3002, C-BJ-4008, W-J-2001 and W-L-2001.

Type RS100, RS101, RS105, RS155, S100, S101, S105, S129 or S155 Sealant for use in Through-Penetration Firestop System Nos. C-AJ-1026, C-BJ-0003, C-BJ-0005, C-BJ-1007, C-BJ-1008, C-BJ-3002, C-BJ-4008 and W-L-3007.

Type CF Blanket for use in Through-Penetration Firestop System Nos. C-AJ-1026, C-AJ-2007, C-AJ-3020, W-J-2001 and W-L-2001.

Type FS900, FS901, FS903, FS903CG, FS905, FS905CG, FS929, FST901, FST903 or FST905 Sealant for use in Through-Penetration Firestop System Nos. C-AJ-0012, C-AJ-1022, C-AJ-1087, C-AJ-1088, C-AJ-1104, C-AJ-1105, C-AJ-1235, C-AJ-3035, C-AJ-6011, C-AJ-7008, W-J-1065, W-L-1007, W-L-1046, W-L-1047, W-L-1048 W-L-1152, W-L-2166 and W-L-3005.

Types FS1900, FS1901, FS1905 and FS1929 Sealant for use in Through-Penetration Firestop System Nos. C-AJ-1211, C-AJ-1235, C-AJ-2171, C-AJ-2172, C-AJ-2173, C-AJ-2174, C-AJ-2175, C-AJ-2194, C-AJ-2201, C-AJ-2202 C-AJ-2211, C-AJ-2212, C-AJ-3136, C-AJ-5073, C-AJ-5116, C-AJ-5117, C-AJ-5118 C-AJ-6013, C-AJ-7008, C-AJ-7038, C-AJ-8042, C-BJ-1035, C-BJ-2005, C-BJ-5008, F-C-1018, F-C-1020, F-C-1021, F-C-1022, F-C-1023, F-C-1037, F-C-1045, F-C-2038, F-C-2041, F-C-2042, F-C-2043, F-C-2082, F-C-2083, F-C-2084, F-C-2086, F-C-2087, F-C-2088, F-C-2089, F-C-2090, F-C-2091, F-C-2103, F-C-2122, F-C-3018, F-C-3019, F-C-3020, F-C-3021, F-C-5010, F-C-5011, F-C-5012, F-C-5013, F-C-5025, F-C-5030, F-C-7004, F-C-7005, F-C-7008, F-C-8002, F-C-8003, W-J-1026, W-J-1031, W-J-1066, W-J-2014, W-J-2048, W-J-2051, W-J-2052, W-J-3019, W-J-3038, W-J-3039, W-J-3042, W-J-4010, W-J-4019, W-J-5007, W-J-5008, W-J-5035, W-J-5036, W-J-7002, W-J-7008, W-L-1072, W-L-1089, W-L-2038, W-L-2072, W-L-2167, W-L-2168, W-L-2170, W-L-3060, W-L-3061, W-L-3072, W-L-3116, W-L-3118, W-L-3119, W-L-4009, W-L-4025, W-L-5037, W-L-5048, W-L-5086, W-L-5087, W-L-7006, W-L-7027 and W-L-8007.

Type FS2900, FS2901, FS2905 or FS2955 Coating for use in Through Penetration Firestop System No. C-AJ-1236.

Type FSP1000 Putty for use in Through-Penetration Firestop System Nos. C-AJ-1023, C-AJ-1242, C-AJ-3016 and W-L-3006.

Flame Safe Wrap Strip for use in Through-Penetration Firestop System Nos. C-AJ-2201, C-AJ-2202, C-AJ-2211, C-AJ-2212, C-AJ-5117, C-AJ-5118, F-C-2083, F-C-2084, F-C-2086, F-C-2088, F-C-2090 W-J-2048, W-J-2052, W-L-2167 and W-L-2168.

Type FSP1077 Putty for use in Through-Penetration Firestop System Nos. C-AJ-1111 and C-AJ-6012.

Type FSP1100 Putty for use in Through-Penetration Firestop System Nos. C-AJ-5025, W-J-2014, W-L-2038, W-L-2039 and W-L-5012.

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Type I for use in Joint System Nos. FWD0002 and HWD0007.

Type C for use in Through-Penetration Firestop System Nos. C-AJ-0040, C-AJ-1165, C-AJ-1168, C-AJ-1169, C-AJ-1170, C-AJ-1171, C-AJ-3077, C-AJ-6014, W-L-1068, W-L-1069, W-L-1070, W-L-1071 and W-L-3057.

Type P for use in Through-Penetration Firestop System Nos. C-AJ-1166, C-AJ-1269, C-AJ-3083 and W-L-3057.

Type EP for use in Through-Penetration Firestop System Nos. C-AJ-5056, W-J-2015, W-L-2067, W-L-2068 and W-L-5035.

Type I for use in Through-Penetration Firestop System Nos. C-AJ-1189, C-AJ-1268, C-AJ-2203, C-AJ-5075, C-AJ-6015, C-AJ-7011, C-AJ-8046, C-BJ-1036, C-BJ-2006, C-BJ-5009, F-C-1019, F-C-1024, F-C-1025, F-C-1026, F-C-1027, F-C-2028, F-C-2029, F-C-2030, F-C-2031, F-C-2032, F-C-2033, F-C-2034, F-C-2035, F-C-2036, F-C-2037, F-C-2038, F-C-2039, F-C-2040, F-C-2041, F-C-2042, F-C-2043, F-C-2044, F-C-2045, F-C-2046, F-C-2047, F-C-2048, F-C-2049, F-C-2050, F-C-2051, F-C-2052, F-C-2053, F-C-2054, F-C-2055, F-C-2056, F-C-2057, F-C-2058, F-C-2059, F-C-2060, F-C-2061, F-C-2062, F-C-2063, F-C-2064, F-C-2065, F-C-2066, F-C-2067, F-C-2068, F-C-2069, F-C-2070, F-C-2071, F-C-2072, F-C-2073, F-C-2074, F-C-2075, F-C-2076, F-C-2077, F-C-2078, F-C-2079, F-C-2080, F-C-2081, F-C-2082, F-C-2083, F-C-2084, F-C-2085, F-C-2086, F-C-2087, F-C-2088, F-C-2089, F-C-2090, F-C-2091, F-C-2092, F-C-2093, F-C-2094, F-C-2095, F-C-2096, F-C-2097, F-C-2098, F-C-2099, F-C-2100, F-C-2101, F-C-2102, F-C-2103, F-C-2104, F-C-2105, F-C-2106, F-C-2107, F-C-2108, F-C-2109, F-C-2110, F-C-2111, 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F-C-3012, F-C-3013, F-C-3014, F-C-3015, F-C-3016, F-C-3017, F-C-3018, F-C-3019, F-C-3020, F-C-3021, F-C-3022, F-C-3023, F-C-3024, F-C-3025, F-C-3026, F-C-3027, F-C-3028, F-C-3029, F-C-3030, F-C-3031, F-C-3032, F-C-3033, F-C-3034, F-C-3035, F-C-3036, F-C-3037, F-C-3038, F-C-3039, F-C-3040, F-C-3041, F-C-3042, F-C-3043, F-C-3044, F-C-3045, F-C-3046, F-C-3047, F-C-3048, F-C-3049, F-C-3050, F-C-3051, F-C-3052, F-C-3053, F-C-3054, F-C-3055, F-C-3056, F-C-3057, F-C-3058, F-C-3059, F-C-3060, F-C-3061, F-C-3062, F-C-3063, F-C-3064, F-C-3065, F-C-3066, F-C-3067, F-C-3068, F-C-3069, F-C-3070, F-C-3071, F-C-3072, F-C-3073, F-C-3074, F-C-3075, F-C-

# 1999 Fire Resistance Directory

## FIRE RESISTANCE DIRECTORY (BXRH)

### FILL, VOID OR CAVITY MATERIALS (XHHW)—Continued

C-AJ-1092, C-AJ-1112, C-AJ-1160, C-AJ-1175, C-AJ-1176, C-AJ-1216, C-AJ-1225, C-AJ-1241, C-AJ-1267, C-AJ-1274, C-AJ-2001, C-AJ-2002, C-AJ-2003, C-AJ-2005, C-AJ-2006, C-AJ-2027, C-AJ-2030, C-AJ-2044, C-AJ-2117, C-AJ-2133, C-AJ-2143, C-AJ-2144, C-AJ-2161, C-AJ-2189, C-AJ-2213, C-AJ-2214, C-AJ-2216, C-AJ-2226, C-AJ-2227, C-AJ-2228, C-AJ-2241, C-AJ-2242, C-AJ-3005, C-AJ-3030, C-AJ-3031, C-AJ-3071, C-AJ-3074, C-AJ-3080, C-AJ-3107, C-AJ-3108, C-AJ-3110, C-AJ-3111, C-AJ-3147, C-AJ-3148, C-AJ-3137, C-AJ-4003, C-AJ-5001, C-AJ-5002, C-AJ-5003, C-AJ-5017, C-AJ-5022, C-AJ-5024, C-AJ-5030, C-AJ-5060, C-AJ-5080, C-AJ-5119, C-AJ-6001, C-AJ-7003, C-AJ-7016, C-AJ-7017, C-AJ-8001, C-AJ-8013, C-AJ-8060, C-AJ-8069, C-AJ-8072, C-AJ-8073, C-BJ-1020, C-BJ-2007, C-BJ-3016, C-BJ-3017, C-BJ-5002, C-BJ-5003, C-BJ-5004, C-BJ-8004, C-BJ-8005, F-A-0004, F-A-1002, F-A-1011, F-A-2002, F-A-2027, F-A-2033, F-A-3001, F-A-3002, F-A-5001, F-A-8001, F-B-2005, F-B-2006, F-C-1006, F-C-1015, F-C-1029, F-C-1036, F-C-2002, F-C-2007, F-C-2008, F-C-2024, F-C-2026, F-C-2028, F-C-2039, F-C-2064, F-C-2073, F-C-2092, F-C-2115, F-C-2116, F-C-2120, F-C-2121, F-C-2129, F-C-2134, F-C-2141, F-C-3007, F-C-3008, F-C-5002, F-C-5009, F-C-8012, F-C-8013, W-J-1010, W-J-2012, W-J-2029, W-J-5013, W-J-5014, W-J-5015, W-L-1001, W-L-1003, W-L-1016, W-L-1017, W-L-1032, W-L-1037, W-L-1067, W-L-1073, W-L-1077, W-L-1096, W-L-1112, W-L-1133, W-L-1137, W-L-1146, W-L-2002, W-L-2003, W-L-2004, W-L-2005, W-L-2006, W-L-2031, W-L-2032, W-L-2033, W-L-2073, W-L-2087, W-L-2088, W-L-2092, W-L-2097, W-L-2099, W-L-2112, W-L-2147, W-L-2148, W-L-2149, W-L-2150, W-L-2154, W-L-2162, W-L-3001, W-L-3015, W-L-3030, W-L-3032, W-L-3051, W-L-3056, W-L-3062, W-L-3068, W-L-3074, W-L-3075, W-L-3077, W-L-3078, W-L-3080, W-L-3081, W-L-3082, W-L-3123, W-L-3125, W-L-4004, W-L-5001, W-L-5002, W-L-5009, W-L-5010, W-L-5011, W-L-5038, W-L-5039, W-L-5040, W-L-5045, W-L-7008, W-L-7013, W-L-7032, W-L-8002, W-L-8019 and W-L-8021.

CS-195+ sheet for use in Through-Penetration Firestop System Nos. C-AJ-0004, C-AJ-1006, C-AJ-2003, C-AJ-2030, C-AJ-3005, C-AJ-3044, C-AJ-4003, C-AJ-5030, C-AJ-6001, C-AJ-7017, C-AJ-8001, C-AJ-8069, C-BJ-1015, C-BJ-1020, C-BJ-3016, C-BJ-3017, C-BJ-5004, C-BJ-8004, C-BJ-8005, F-A-0004, F-A-2002, F-B-3004, W-L-1037, W-L-2031, W-L-2032, W-L-3080, W-L-4004, W-L-4018, W-L-6002 and W-L-8002.

FS-195+ wrap strip for use in Through-Penetration Firestop System Nos. C-AJ-1006, C-AJ-1007, C-AJ-1112, C-AJ-2001, C-AJ-2002, C-AJ-2003, C-AJ-2005, C-AJ-2006, C-AJ-2027, C-AJ-2028, C-AJ-2029, C-AJ-2030, C-AJ-2040, C-AJ-2044, C-AJ-2090, C-AJ-2117, C-AJ-2121, C-AJ-2132, C-AJ-2133, C-AJ-2143, C-AJ-2143, C-AJ-2189, C-AJ-3005, C-AJ-3030, C-AJ-3044, C-AJ-3058, C-AJ-3003, C-AJ-5002, C-AJ-5003, C-AJ-5017, C-AJ-5022, C-AJ-5024, C-AJ-5030, C-AJ-5080, C-AJ-6001, C-AJ-8001, C-AJ-8013, C-AJ-8069, C-AJ-8073, C-BJ-1020, C-BJ-3016, C-BJ-5003, C-BJ-8004, F-A-2001, F-A-2002, F-A-2011, F-A-2027, F-A-5001, F-A-8001, F-C-2001, F-C-2007, F-C-2008, F-C-2024, F-C-2026, F-C-2028, F-C-2064, F-C-2092, F-C-2116, F-C-3008, F-C-5002, F-C-8012, W-J-2012, W-L-1002, W-L-1037, W-L-1137, W-L-2002, W-L-2003, W-L-2004, W-L-2005, W-L-2006, W-L-2031, W-L-2032, W-L-2033, W-L-2073, W-L-2077, W-L-2087, W-L-2090, W-L-2092, W-L-3030, W-L-4004, W-L-5001, W-L-5002, W-L-5009, W-L-5010, W-L-5043, W-L-8002, W-L-8010 and W-L-8021.

Ultra GS wrap strip for use in Through-Penetration Firestop System Nos. C-AJ-2213, C-AJ-2214, C-AJ-2216, C-AJ-2228, C-AJ-2241, C-AJ-2242, F-A-2033, F-C-2115, F-C-2134, F-C-2141, W-L-2147, W-L-2148, W-L-2149, W-L-2150 and W-L-2154.

MPS-2+ moldable putty fill material for use in Through-Penetration Firestop System Nos. C-AJ-0007, C-AJ-1027, C-AJ-2001, C-AJ-2028, C-AJ-2029, C-AJ-2030, C-AJ-2040, C-AJ-2117, C-AJ-2121, C-AJ-2132, C-AJ-2133, C-AJ-2143, C-AJ-2189, C-AJ-2214, C-AJ-2216, C-AJ-2226, C-AJ-2227, C-AJ-3021, C-AJ-3044, C-AJ-3058, C-AJ-5005, C-AJ-8060, C-AJ-8073, C-BJ-3017, C-BJ-8005, F-A-2002, F-A-2011, F-A-2021, F-B3004, F-C-2008, F-C-2028, F-C-2039, F-C-2092, F-C-3007, F-C-3008, F-C-3017, F-C-8012, F-C-8013, W-J-2029, W-L-1080, W-L-1137, W-L-2088, W-L-2090, W-L-2091, W-L-2092, W-L-2097, W-L-2099, W-L-2147, W-L-2150, W-L-2162, W-L-3001, W-L-3031, W-L-3068, W-L-3080, W-L-3081, W-L-3082, W-L-4004, W-L-4018 and W-L-6002.

Firedam Spray for use in Through-Penetration Firestop System No. C-AJ-1275.

FB-1000 NS, sealant for use in Through-Penetration Firestop System Nos. C-AJ-0060, C-AJ-1292, C-AJ-3150, C-AJ-5125, C-AJ-8075, W-L-1157, W-L-2172, W-L-2173, W-L-2174, W-L-3129, W-L-3130, W-L-5089 and W-L-8022.

FB-1003 SL sealant for use in Through-Penetration Firestop System Nos. C-AJ-0060, C-AJ-1292, C-AJ-3150, C-AJ-5125 and C-AJ-8075.

FB-2000 caulk for use in Through-Penetration Firestop System Nos. C-AJ-0008, C-AJ-0034, C-AJ-1009, C-AJ-1013, C-AJ-1014, C-AJ-1058, C-AJ-1060, C-AJ-2019, C-AJ-3029, C-AJ-3041, C-AJ-5009, C-AJ-5041, C-AJ-6002, C-AJ-8003, C-BJ-0013, F-C-1003, F-C-3002, W-L-1009, W-L-1010, W-L-3009, W-L-3041 and W-L-5032.

FB-2000+ caulk for use in Through-Penetration Firestop System Nos. C-AJ-0008, C-AJ-0043, C-AJ-1009, C-AJ-1013, C-AJ-1014, C-AJ-1058, C-AJ-1060, C-AJ-1188, C-AJ-2019, C-AJ-2204, C-AJ-3029, C-AJ-3041, C-AJ-5009, C-AJ-5041, C-AJ-5074, C-AJ-6002, C-AJ-7012, C-AJ-7013, C-AJ-7014, C-AJ-7015, C-AJ-7019, C-AJ-7020, C-AJ-7021, C-AJ-7022, C-

## FIRE RESISTANCE DIRECTORY (BXRH)

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### FILL, VOID OR CAVITY MATERIALS (XHHW)—Continued

AJ-8003, C-BJ-0013, F-C-1003, F-C-3002, W-L-1009, W-L-1010, W-L-1082, W-L-3009, W-L-3041, W-L-5032 and W-L-5032.

FB-2001 foam for use in Through Penetration Firestop System Nos. C-BJ-0019, C-BJ-8008, W-J-0003, W-J-1023, W-J-3015, W-J-3016 and W-J-4008.

FB-2003 caulk for use in Through-Penetration Firestop System Nos. C-AJ-0006, C-AJ-0034, C-AJ-1009, C-AJ-1013, C-AJ-1014, C-AJ-1058, C-AJ-1060, C-AJ-2019, C-AJ-3029, C-AJ-3041, C-AJ-5009, C-AJ-5041, C-AJ-6002, C-AJ-8003, C-BJ-0013, F-C-1003 and F-C-3002.

FB-150 caulk for use in Through Penetration Firestop System Nos. C-AJ-1017, C-AJ-4006 and W-L-1036.

Fire Barrier Montar for use in Through-Penetration Firestop System Nos. C-AJ-8073.

**NATIONAL GYPSUM CO** R14743  
2001 REXFORD RD, CHARLOTTE NC 28211  
Sta-Smooth FS 90 Fire-Shield dry mix compound for use in System Nos. CAJ0038, CAJ1163, CAJ3073, WL1041 and WL3035.

**NELSON FIRESTOP PRODUCTS** R10764  
4041 S SHERIDAN PO BOX 726, TULSA OK 74101

Type CLK N/S (Non-Sag) Caulk for use in Joint System Nos. FF-S-1011, FF-S-1016, FW-S-1003, FW-S-1004, HW-S-1002, HW-S-1003, WW-S-1013, WW-S-1014, WW-S-1020 and WW-S-1021.

Type CLK S/L (Self-Leveling) Caulk for use in Joint System Nos. FF-S-1011, FF-S-1016, FW-S-1003 and FW-S-1004.

Type FSP Putty for use in Through-Penetration Firestop System Nos. C-AJ-0003, C-AJ-1003, C-AJ-1004, C-AJ-1005, C-AJ-1041, C-AJ-1046, C-AJ-1054, C-AJ-1197, C-AJ-2032, C-AJ-2096, C-AJ-2148, C-AJ-3003, C-AJ-3004, C-AJ-3006, C-AJ-3089, C-AJ-3090, C-AJ-3093, C-AJ-3109, C-AJ-3112, C-AJ-3118, C-AJ-3149, C-AJ-4001, C-AJ-4002, C-AJ-4013, C-AJ-4032, C-AJ-4033, C-AJ-5012, C-AJ-5054, C-AJ-5066, C-AJ-7010, C-AJ-7018, C-AJ-7024, C-AJ-7025, C-BJ-4016, F-A-0001, F-A-4001, W-J-1005, W-J-1006, W-J-1015, W-J-2002, W-J-2003, W-J-2004, W-J-3007, W-J-3008, W-J-4004, W-J-5001, W-L-1005, W-L-1006, W-L-1031, W-L-2010, W-L-2011, W-L-2012, W-L-2022, W-L-3003, W-L-3004, W-L-3055, W-L-4003, W-L-5004, W-L-5036 and W-L-6003.

Type CMP Mortar for use in Through-Penetration Firestop System Nos. C-AJ-0030, C-AJ-0043, C-AJ-1040, C-AJ-1219, C-AJ-4031, C-AJ-4032, C-AJ-4033, C-AJ-5008, C-AJ-7029, C-AJ-7030, C-AJ-8007, C-AJ-8049, C-BJ-1016.

Type LBS Sealant for use in Through-Penetration Firestop System Nos. C-AJ-1191, C-AJ-1192, C-AJ-1193, C-AJ-1203, C-AJ-1223, C-AJ-1224, C-AJ-1237, C-AJ-2149, C-AJ-2162, C-AJ-2163, C-AJ-2219, C-AJ-3094, C-AJ-3116, C-AJ-3117, C-AJ-5088, C-AJ-5100, C-AJ-5104, C-AJ-6004, C-AJ-8062, C-BK-1003, F-B-3003, F-C-0001, F-C-1012, F-C-1016, F-C-1017, F-C-2031, F-C-2097, F-C-2104, F-C-2105, F-C-2106, F-C-2107, F-C-3034, F-C-5027, F-C-5028, F-C-7003, W-J-1014, W-J-1034, W-J-2045, W-J-2046, W-J-3032, W-J-3033, W-J-3034, W-J-5024, W-J-5032, W-J-7004, W-L-1030, W-L-1094, W-L-2130, W-L-2131, W-L-3086, W-L-3087, W-L-3088, W-L-5065, W-L-5072 and W-L-7010.

Type CLK (Non-sag) N/S Caulk for use in Through-Penetration Firestop System Nos. C-AJ-1124, C-AJ-1191, C-AJ-1192, C-AJ-1193, C-AJ-1203, C-AJ-3094, C-AJ-5059, C-AJ-6004, C-BJ-1017, C-BJ-3014, C-BK-1003, F-B-3003, F-C-1012, F-C-1016, F-C-1017, F-C-2031, W-J-1014, W-J-3010, W-L-1030, W-L-1083 and W-L-3026.

Type CLK (Self-Leveling) S/L Caulk for use in Through-Penetration Firestop System Nos. C-AJ-1124, C-AJ-1191, C-AJ-1192, C-AJ-1193, C-AJ-1203, C-AJ-3094 and C-AJ-5059.

Type CPS composite sheet for use in Through-Penetration Firestop System Nos. C-AJ-0049, C-AJ-0050, C-BJ-4016.

Type FSP Firestop Putty Pads for use in Through-Penetration Firestop System Nos. W-J-1006 and W-L-1006.

Type RSW batts for use in Through-Penetration Firestop System Nos. C-BJ-1017, C-BJ-3014, C-BK-1003 and F-B-3003.

Type WRP wrap for use in Through-Penetration Firestop System Nos. C-BJ-1016 and C-BJ-1017.

Type PLW pillows for use in Through-Penetration Firestop System Nos. C-AJ-0054, C-AJ-3093, C-AJ-4013, C-AJ-4032, C-AJ-4033, C-BJ-3015, W-J-4004, W-L-3055 and W-L-4003.

Type Tecron gasket for use in Through-Penetration Firestop System Nos. C-AJ-0010 and C-AJ-3048.

Type WRS Wrap Strip for use in Through-Penetration Firestop System Nos. C-AJ-2148, C-AJ-2149, C-AJ-2163, C-AJ-5076, C-AJ-5100, C-AJ-8062, F-C-2104, F-C-2105, W-J-2030, W-J-2031, W-J-2045, W-J-2046, W-J-3033, W-J-5032, W-L-2110, W-L-2111, W-L-2130, W-L-2131, W-L-3087 and W-L-5072.

**NPC SEALANTS, DIV OF NU-PUTTIE CORP** R14740  
1208 S 8TH AVE PO BOX 645, MAYWOOD IL 60153  
Type NPC 50 Firestop intumescent sealant use in System Nos. CAJ1141, CAJ1143, CAJ2058.

# 1999 Fire Resistance Directory

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## FIRE RESISTANCE DIRECTORY (BXRH)

FILL, VOID OR CAVITY MATERIALS (XHHW)—Continued

**NUCO INC** R18328  
 3185 UNITY DR, MISSISSAUGA ON CANADA L5L 4L5  
 Self Seal SL-100 sealant for use in Joint System No. FF-S-1018.  
 Self Seal GG-200 sealant for use in Joint System Nos. FF-S-1018, HW-S-0011, HW-S-0021 and WW-S-1022.  
 Self Seal GG-200 sealant for use in Through-Penetration Firestop System Nos. C-AJ-0048, C-AJ-1201, C-AJ-1227, C-AJ-2207, C-AJ-2208, C-AJ-2209, C-AJ-3102, C-AJ-3113, C-AJ-4036, C-AJ-5092, C-AJ-5093, C-AJ-8048, W-L-1086, W-L-2096, W-L-2141, W-L-2142, W-L-214C, W-L-3067, W-L-3083, W-L-3126, W-L-5055, W-L-8012 and W-L-8020.  
 Self Seal SL-100 sealant for use in Through-Penetration Firestop System Nos. C-AJ-0048, C-AJ-1227, C-AJ-2207, C-AJ-2208, C-AJ-2209, C-AJ-3113, C-AJ-4036, C-AJ-5092, C-AJ-5093 and C-AJ-8048.  
 Self Seal SSC wrap strip for use in Through-Penetration Firestop System Nos. C-AJ-2207, W-L-2143 and W-L-8020.

**OATEY CO** R14680  
 4700 WEST 160TH ST P O BOX 35906, CLEVELAND OH 44135  
 Type Oatey FireStop Caulk for use in System Nos. CAJ1107, CAJ1108, CAJ3034, CAJ5014, CAJ8011, CBJ1024, FC1004, FC2006, FC3004 and FC5001.  
 Type Oatey FireStop Sealant for use in System Nos. CAJ2022 and CBJ2022.

**OSI SEALANTS INC** R16155  
 7405 PRODUCTION DR, MENTOR OH 44060  
 Flame Seal Sealant for use in Joint System Nos. FF-S-1026, FW-S-1009, HW-S-1008 and WW-S-1029.  
 Flame Seal Sealant for use in Through-Penetration Firestop System Nos. C-AJ-1257, C-AJ-1258, C-AJ-2195, C-AJ-3131, C-AJ-8070, F-C-1040, F-C-2096, F-C-3033, W-J-1052, W-J-2044, W-J-3031, W-J-4015, W-L-1136, W-L-2140, W-L-3107, W-L-4015 and W-L-7023.

**PECORA CORP** R13840  
 165 WAMBOLD RD, HARLEYSVILLE PA 19438  
 Dynatrol II caulk for use in Joint System Nos. FF-S-0006, FF-S-1007, WW-S-0010 and WW-S-1008.  
 864 Silicone caulk for use in Joint System Nos. FF-S-0006 and WW-S-0010.  
 AC-20 FTR caulk for use in Joint System Nos. FF-S-0006, FF-S-1010, FF-S-2002, WW-S-0010, WW-S-1012 and WW-S-2008.  
 Dynaflex caulk for use in Joint System Nos. FF-S-0017 and WW-S-0021.  
 Dynatred caulk for use in Joint System Nos. FF-S-0017 and WW-S-0021.  
 AC-20 FTR caulk for use in Through-Penetration Firestop System No. CAJ1093.

**RHONE-POULENC INC** R13928  
 CN 7500 PROSPECT PLAINS RD, CRANBURY NJ 08512  
 FR71 caulk for use in Joint System Nos. FFS0012 and WWS0016.

**SIKA CORP** R13873  
 201 POLITO AVE, LYNDHURST NJ 07071  
 SikaFlex 2C NS caulk for use in Joint System Nos. FFS0007, FFS0024, WWS0011 and WWS0027.  
 SikaFlex 15LM caulk for use in Joint System Nos. FFS0007 and WWS0011.

**SPECIFIED TECHNOLOGIES INC** R14288  
 SUITE 2 200 EVANS WAY, SOMERVILLE NJ 08876  
 Pensil 100 Sealant for use in Joint System Nos. FF-S-0013 and WW-S-0017.  
 Pensil 200 Foam for use in Joint System Nos. FF-D-1006, FW-D-1005, HW-D-1004 and WW-D-1005.  
 Pensil 300 Sealant for use in Joint System Nos. FF-D-0001, FF-D-1001, FF-D-1006, FF-D-1010, FF-S-0013, FF-S-0020, FF-S-1009, FW-D-1001, FW-D-1005, FW-D-1010, HW-D-1001, HW-D-1004, WW-D-0001, WW-D-1001, WW-D-1002, WW-D-1005, WW-S-0017, WW-S-0023, WW-S-0029, WW-S-1009, and WW-S-1010.  
 Pensil 300 S/L (self leveling) Sealant for use in Joint System Nos. FF-D-0001, FF-D-1001, FF-S-0013, FF-S-0020, FF-S-1009 and FW-D-1001.

SpecSeal Elastomeric Spray for use in Joint System Nos. FF-D-1007, FW-D-1006, HW-D-1005, HW-D-0043, HW-D-0044, HW-D-0054, HW-D-0055 and WW-D-1006.  
 SpecSeal Elastomeric Sealant for use in Joint System Nos. FF-D-0005, FF-D-1008, FW-D-0005, FW-D-1007, HW-D-0034, HW-D-0039, HW-D-0041, HW-D-1006, WW-D-0004 and WW-D-1007.  
 Pensil 100 Sealant for use in Through-Penetration Firestop System Nos. C-AJ-0006, C-AJ-1030, C-AJ-1045, C-AJ-1048, C-AJ-3023, C-AJ-5010, C-AJ-6003, F-A-2022, W-L-1033, W-L-1062.  
 Pensil 300 Sealant for use in Through-Penetration Firestop System Nos. C-AJ-0006, C-AJ-1030, C-AJ-1045, C-AJ-1048, C-AJ-1198, C-AJ-3023,

## FIRE RESISTANCE DIRECTORY (BXRH)

FILL, VOID OR CAVITY MATERIALS (XHHW)—Continued

Pensil 300 S/L (Self Leveling) Sealant for use in Through-Penetration Firestop System Nos. C-AJ-0006, C-AJ-1030, C-AJ-1045, C-AJ-1048, C-AJ-1198, C-AJ-3023, C-AJ-5010, C-AJ-6003 and F-A-2022.  
 SpecSeal 100, 101, 102 or 105 Sealants for use in Through-Penetration Firestop System Nos. C-AJ-0014, C-AJ-1079, C-AJ-1080, C-AJ-1142, C-AJ-1217, C-AJ-1259, C-AJ-1260, C-AJ-1298, C-AJ-2031, C-AJ-2038, C-AJ-2045, C-AJ-2063, C-AJ-2064, C-AJ-2089, C-AJ-2092, C-AJ-2104, C-AJ-2105, C-AJ-2106, C-AJ-2108, C-AJ-2124, C-AJ-2125, C-AJ-2126, C-AJ-2137, C-AJ-2138, C-AJ-2139, C-AJ-2140, C-AJ-2142, C-AJ-2145, C-AJ-2146, C-AJ-2147, C-AJ-2159, C-AJ-2166, C-AJ-3043, C-AJ-3128, C-AJ-3133, C-AJ-5021, C-AJ-5042, C-AJ-5058, C-AJ-5079, C-AJ-5087, C-AJ-5101, C-AJ-5102, C-AJ-5103, C-AJ-5112, C-AJ-6008, C-AJ-7023, C-AJ-7026, C-AJ-7027, C-AJ-8053, C-AJ-8054, C-AJ-8055, F-A-2022, F-A-2023, F-A-2031, F-C-1010, F-C-1013, F-C-1014, F-C-2019, F-C-2020, F-C-2021, F-C-2022, F-C-2032, F-C-2033, F-C-2034, F-C-2036, F-C-2044, F-C-2054, F-C-2102, F-C-3013, F-C-3015, F-C-3016, F-C-3022, F-C-3041, F-C-3042, F-C-5014, F-C-5029, F-C-7002, F-C-8001, F-C-8004, F-C-8010, F-C-8011, W-J-1025, W-J-1035, W-J-1053, W-J-1055, W-J-2013, W-J-2018, W-J-2020, W-J-2021, W-J-2022, W-J-2032, W-J-3017, W-J-3022, W-J-3035, W-J-3041, W-J-3043, W-J-3044, W-J-3047, W-J-3048, W-J-3049, W-J-4009, W-J-5005, W-J-5006, W-J-5011, W-J-5012, W-J-5038, W-J-7005, W-J-7007, W-J-7011, W-J-7012, W-J-7013, W-J-8005, W-J-8006, W-L-1028, W-L-1029, W-L-1049, W-L-1079, W-L-1101, W-L-1126, W-L-1156, W-L-2029, W-L-2046, W-L-2047, W-L-2048, W-L-2059, W-L-2074, W-L-2093, W-L-2100, W-L-2101, W-L-2114, W-L-3024, W-L-3025, W-L-3076, W-L-3100, W-L-3124, W-L-3132, W-L-3136, W-L-3137, W-L-3138, W-L-4005, W-L-5014, W-L-5033, W-L-5051, W-L-5054, W-L-5091, W-L-6001, W-L-7009, W-L-7019, W-L-7025, W-L-7026, W-L-7028, W-L-7029, W-L-7033, W-L-8003 and W-L-8011.  
 SpecSeal 500, 501, 502 and 505 Sealants for use in Through-Penetration Firestop System Nos. C-AJ-2056, C-AJ-2057 and C-AJ-5029.  
 SpecSeal Elastomeric Spray for use in Through-Penetration Firestop System Nos. W-J-7006 and W-L-7024.  
 SpecSeal Putty for use in Through-Penetration Firestop System Nos. C-AJ-1090, C-AJ-3042, C-AJ-4029, C-AJ-4030, W-J-1025, W-J-2054, W-J-3017, W-J-3023, W-J-3041, W-J-3043, W-J-4021, W-J-4022, W-L-1029, W-L-2178, W-L-3024, W-L-3124, W-L-3132, W-L-3025, W-L-3084, W-L-4008 and W-L-4029.  
 SpecSeal Mortar for use in Through-Penetration Firestop System Nos. C-AJ-0015, C-AJ-1089, C-AJ-1228, C-AJ-2079, C-AJ-2093, C-AJ-2136, C-AJ-4020, C-AJ-5051, C-AJ-5094, C-AJ-6009, C-AJ-7029, C-AJ-7030, C-AJ-8016, C-AJ-8033, C-AJ-8035, C-AJ-8036 and C-AJ-8055.  
 SpecSeal Wrap Strip for use in Through-Penetration Firestop System Nos. C-AJ-2048, C-AJ-2063, C-AJ-2064, C-AJ-2089, C-AJ-2092, C-AJ-2093, C-AJ-2106, C-AJ-5042, C-AJ-5051, C-AJ-5058, C-AJ-6003, C-AJ-8033, C-AJ-8035, C-AJ-8036, F-C-2019, F-C-2022, F-C-8001, W-J-1030, W-J-5006, W-L-2048, W-L-2059, W-L-2074 and W-L-5033.  
 SpecSeal BLU Wrap Strip for use in Through-Penetration Firestop System Nos. C-AJ-2104, C-AJ-2105, C-AJ-2108, C-AJ-2146, C-AJ-2147, F-A-2022, F-A-2023, W-J-2053, W-L-2079 and W-L-2175.  
 SpecSeal RED Wrap Strip for use in Through-Penetration Firestop System Nos. C-AJ-2064, C-AJ-2092, C-AJ-2106, C-AJ-2124, C-AJ-2125, C-AJ-2126, C-AJ-2136, C-AJ-2137, C-AJ-2138, C-AJ-2139, C-AJ-2142, C-AJ-2145, C-AJ-2159, C-AJ-2166, C-AJ-5058, C-AJ-5094, C-AJ-5097, C-AJ-6003, C-AJ-8035, C-AJ-8036, C-AJ-8055, F-A-2031, F-C-2019, F-C-2022, F-C-2033, F-C-2034, F-C-2035, F-C-2036, F-C-2037, F-C-2044, F-C-2054, F-C-8001, F-C-8010, F-C-8011, W-J-2020, W-J-2022, W-J-5006, W-J-7011, W-L-2048, W-L-2059, W-L-2074, W-L-2101, W-L-5033 and W-L-7028.  
 SpecSeal Putty Pads for use in Through-Penetration Firestop System Nos. C-AJ-1228, C-AJ-2136, C-AJ-3042 and C-AJ-8055.  
 SpecSeal Firestop Pillows for use in Through-Penetration Firestop System Nos. C-AJ-0061, C-AJ-4029, C-AJ-4030, C-AJ-8052, W-J-2054, W-J-3023, W-J-4021, W-J-4022, W-L-2178, W-L-3084, W-L-4008 and W-L-4029.  
 LC150, -151, -152 and -155 Sealants for use in Through-Penetration Firestop System Nos. C-AJ-0047, C-AJ-1208, C-AJ-1209, C-AJ-1210, C-AJ-1213, C-AJ-1214, C-AJ-1215, C-AJ-1232, C-AJ-1240, C-AJ-3085, C-AJ-7026, W-J-1030, W-J-1033, W-J-1054, W-J-3035, W-J-3043, W-L-1078, W-L-1088, W-L-1090, W-L-1093, W-L-1127, W-L-3100, W-L-3132, and W-L-7009.

**STC FLAMMADUR INC** R13936  
 101 RESEARCH DR, HAMPTON VA 23666  
 Type A107 caulk for use in Joint System Nos. FF-S-0019, FW-S-0002 and WW-S-0026.  
 Type E201 putty for use in Through-Penetration Firestop System Nos. C-BJ-3008, C-BJ-3009 and C-BJ-4010.  
 Type E424 mastic for use in Through-Penetration Firestop System Nos. C-BJ-3008 and C-BJ-4010.  
 Type E473 mortar for use in Through-Penetration Firestop System Nos. C-AJ-1042, C-AJ-1043, C-AJ-1044, C-AJ-1045, C-AJ-1046, C-AJ-1047, C-AJ-1048, C-AJ-1049, C-AJ-1050, C-AJ-1051, C-AJ-1052, C-AJ-1053, C-AJ-1054, C-AJ-1055, C-AJ-1056, C-AJ-1057, C-AJ-1058, C-AJ-1059, C-AJ-1060, C-AJ-1061, C-AJ-1062, C-AJ-1063, C-AJ-1064, C-AJ-1065, C-AJ-1066, C-AJ-1067, C-AJ-1068, C-AJ-1069, C-AJ-1070, C-AJ-1071, C-AJ-1072, C-AJ-1073, C-AJ-1074, C-AJ-1075, C-AJ-1076, C-AJ-1077, C-AJ-1078, C-AJ-1079, C-AJ-1080, C-AJ-1081, C-AJ-1082, C-AJ-1083, C-AJ-1084, C-AJ-1085, C-AJ-1086, C-AJ-1087, C-AJ-1088, C-AJ-1089, C-AJ-1090, C-AJ-1091, C-AJ-1092, C-AJ-1093, C-AJ-1094, C-AJ-1095, C-AJ-1096, C-AJ-1097, C-AJ-1098, C-AJ-1099, C-AJ-1100, C-AJ-1101, C-AJ-1102, C-AJ-1103, C-AJ-1104, C-AJ-1105, C-AJ-1106, C-AJ-1107, C-AJ-1108, C-AJ-1109, C-AJ-1110, C-AJ-1111, C-AJ-1112, C-AJ-1113, C-AJ-1114, C-AJ-1115, C-AJ-1116, C-AJ-1117, C-AJ-1118, C-AJ-1119, C-AJ-1120, C-AJ-1121, C-AJ-1122, C-AJ-1123, C-AJ-1124, C-AJ-1125, C-AJ-1126, C-AJ-1127, C-AJ-1128, C-AJ-1129, C-AJ-1130, C-AJ-1131, C-AJ-1132, 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FILL, VOID OR CAVITY MATERIALS (XHHW)—Continued

Type A107 caulk for use in Through-Penetration Firestop System Nos. C-AJ-1043 and C-AJ-1085.  
 Type E983 mortar for use in Through-Penetration Firestop System No. C-AJ-1082.  
 Type AS11 fabric for use in Through-Penetration Firestop System No. C-AJ-1086.

THE RECTORSEAL CORP

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2601 SPENWICK DR, HOUSTON TX 77055

Biostop 500+ Caulk for use in Joint System Nos. HW-D-0015, HW-D-0057.  
 Biostop 700 Caulk for use in Joint System No. HW-D-0019.  
 Biostop 750 Spray for use in Joint System Nos. HW-D-0033, HW-D-0059.  
 Biotherm 100 Caulk for use in Joint System Nos. FF-S-1005, FF-S-1020, FW-S-1001, FW-S-1011, HW-S-0022, HW-S-0024, WW-S-1024.  
 Biotherm 200 SL Caulk for use in Joint System Nos. FF-S-1005, FF-S-1020, FW-S-1001, FW-S-1011.  
 Metacaulk 835+ Caulk for use in Joint System Nos. FF-S-1021, FF-S-1025, FW-S-1008, FW-S-1012, HW-S-0023, HW-S-0025, WW-S-1025.  
 Metacaulk 1000 Caulk for use in Joint System Nos. HW-D-0014, HW-D-0056.  
 Metacaulk 1100 Caulk for use in Joint System No. HW-D-0018.  
 Metacaulk 1200 Spray for use in Joint System Nos. HW-D-0032, HW-D-0058.  
 Metacaulk 835+ Caulk for use in Through-Penetration Firestop System Nos. C-AJ-0057, C-AJ-1035, C-AJ-1037, C-AJ-1059, C-AJ-1115, C-AJ-1247, C-AJ-1248, C-AJ-1250, C-AJ-3126, C-AJ-3127, C-AJ-4040, C-AJ-5109, C-AJ-5110, C-AJ-7028, C-AJ-8047, C-AJ-8067, W-J-1007, W-J-1018, W-J-3013, W-J-3014, W-L-0008, W-L-1013, W-L-1034, W-L-1122, W-L-1132, W-L-2134, W-L-3028, W-L-3029, W-L-3096, W-L-3097, W-L-3104, W-L-3127, W-L-5077, W-L-7012, W-L-8016.  
 Metacaulk 950 Caulk for use in Through-Penetration Firestop System Nos. C-AJ-1035, C-AJ-1036, C-AJ-1038, C-AJ-1039, C-AJ-1051, C-AJ-1076, C-AJ-1114, C-AJ-1186, C-AJ-2015, C-AJ-3026, C-AJ-3027, C-AJ-5011, C-AJ-5084, C-AJ-8010, W-J-1007, W-J-1013, W-J-1019, W-J-2005, W-J-8001, W-L-1013, W-L-1024, W-L-1025, W-L-1026, W-L-1035, W-L-1040, W-L-1074, W-L-1075, W-L-2014, W-L-3013, W-L-3014, W-L-5056, W-L-8001.  
 Metacaulk 1000 Caulk for use in Through-Penetration Firestop System Nos. C-AJ-1221, C-AJ-1261, C-AJ-1263, C-AJ-1296, C-AJ-2112, C-AJ-2113, C-AJ-2119, C-AJ-2120, C-AJ-2122, C-AJ-2155, C-AJ-2178, C-AJ-2182, C-AJ-2245, C-AJ-2247, C-AJ-3086, C-AJ-3087, C-AJ-5070, C-AJ-5077, C-AJ-5078, C-AJ-5085, C-AJ-8050, F-A-2043, F-C-1030, F-C-1032, F-C-1055, F-C-2055, F-C-2056, F-C-2057, F-C-2058, F-C-2065, F-C-2067, F-C-2069, F-C-2074, F-C-2075, F-C-2076, F-C-2077, F-C-2130, F-C-2132, F-C-2148, F-C-2150, F-C-5020, F-C-5022, F-C-8015, F-C-8017, W-J-1036, W-J-1038, W-J-1043, W-J-1045, W-J-1059, W-J-1061, W-J-2025, W-J-2039, W-J-3026, W-J-5016, W-J-5018, W-J-5020, W-J-5029, W-J-5033, W-J-5039, W-J-7014, W-J-7016, W-L-1099, W-L-1102, W-L-1104, W-L-1106, W-L-1108, W-L-1114, W-L-1116, W-L-1118, W-L-1120, W-L-1159, W-L-1161, W-L-2104, W-L-2132, W-L-2135, W-L-3092, W-L-3094, W-L-5057, W-L-5059, W-L-5061, W-L-5075, W-L-5084, W-L-5092, W-L-7034, W-L-7036.

Metawrap 60 for use in Through-Penetration Firestop System Nos. W-J-8001, W-L-8001.  
 Metacaulk Fire Rated Mortar for use in Through-Penetration Firestop System Nos. C-AJ-0042, C-AJ-7029, C-AJ-7030, C-AJ-8043, F-A-2043, W-L-1128, W-L-1129.  
 Metacaulk Fire Rated Putty for use in Through-Penetration Firestop System Nos. C-AJ-0045, C-AJ-1200, C-AJ-1206, C-AJ-3100, C-AJ-3101, W-J-3026, W-L-3092, W-L-3094.  
 Metacaulk Wrap Strip for use in Through-Penetration Firestop System Nos. C-AJ-2157, C-AJ-2178, C-AJ-2182, F-C-2058, F-C-2069, F-C-2074, F-C-2075, F-C-2077, F-C-2132, W-J-2023, W-J-2027, W-J-2035, W-J-4017, W-J-5022, W-J-5025, W-L-2102, W-L-2106, W-L-2121, W-L-4021, W-L-4023, W-L-5063, W-L-5068.  
 Metacaulk Pillows for use in Through-Penetration Firestop System Nos. C-AJ-0052, C-AJ-3122, W-J-0004, W-J-4017, W-L-0004, W-L-0006, W-L-4021, W-L-4023.  
 MC-150 Caulk for use in Through-Penetration Firestop System Nos. C-AJ-1270, C-AJ-1272, C-AJ-3134, W-J-1056, W-L-1138, W-L-1140, W-L-1142, W-L-1144, W-L-3108.  
 MC-150 Caulk also Classified in accordance with ASTM E 136-96a "Standard Test Method for the behavior of materials in Vertical Tube Furnace at 750 degrees C."

Biostop Fire Rated Putty for use in Through-Penetration Firestop System Nos. C-AJ-0046, C-AJ-1202, C-AJ-1207, C-AJ-3105, C-AJ-3106, W-J-3027, W-L-3093, W-L-3095.  
 Bio K10 Mortar for use in Through-Penetration Firestop System Nos. C-AJ-0033, C-AJ-1032, C-AJ-2014, C-AJ-3024, C-AJ-4010, C-AJ-5006, C-AJ-7029, C-AJ-7030, C-AJ-8005, C-BJ-3003, C-BJ-3004, C-BJ-3005, C-BJ-3006, W-L-0001, W-L-1011, W-L-1012, W-L-1124, W-L-1125.  
 Biotherm 100 Caulk for use in Through-Penetration Firestop System Nos. C-AJ-0056, C-AJ-1031, C-AJ-1245, C-AJ-1246, C-AJ-1253, C-AJ-1254, C-AJ-1255, C-AJ-1256, C-AJ-3124, C-AJ-3125, C-AJ-4039, C-AJ-5107,

FILL, VOID OR CAVITY MATERIALS (XHHW)—Continued

C-AJ-5108, C-AJ-7036, C-AJ-8066, W-J-1050, W-J-1051, W-J-3029, W-J-3030, W-L-0001, W-L-1011, W-L-1131, W-L-1134, W-L-2139, W-L-3011, W-L-3102, W-L-3103, W-L-3105, W-L-3106, W-L-3128, W-L-5079, W-L-7022, W-L-8017.

Biotherm 200 SL for use in Through-Penetration Firestop System Nos. C-AJ-0056, C-AJ-1031, C-AJ-1246, C-AJ-1255, C-AJ-1256, C-AJ-3125, C-AJ-4039, C-AJ-5107, C-AJ-5108, C-AJ-7036, C-AJ-8066.

Biostop 500 Caulk for use in Through-Penetration Firestop System Nos. C-AJ-5006, C-AJ-5016, C-BJ-3003, C-BJ-3004, C-BJ-3005, C-BJ-3006, W-L-1021.

Biostop 500+ Caulk for use in Through-Penetration Firestop System Nos. C-AJ-1204, C-AJ-1262, C-AJ-1264, C-AJ-1297, C-AJ-2127, C-AJ-2128, C-AJ-2129, C-AJ-2130, C-AJ-2131, C-AJ-2156, C-AJ-2179, C-AJ-2183, C-AJ-2246, C-AJ-2248, C-AJ-3103, C-AJ-3104, C-AJ-5006, C-AJ-5016, C-AJ-5081, C-AJ-5082, C-AJ-5083, C-AJ-5086, C-AJ-8051, C-BJ-3003, C-BJ-3004, C-BJ-3005, C-BJ-3006, F-A-2044, F-C-1031, F-C-1033, F-C-1056, F-C-2059, F-C-2060, F-C-2061, F-C-2062, F-C-2066, F-C-2068, F-C-2070, F-C-2078, F-C-2079, F-C-2131, F-C-2133, F-C-2149, F-C-2251, F-C-5021, F-C-5023, F-C-8016, F-C-8018, W-J-1037, W-J-1039, W-J-1044, W-J-1046, W-J-1060, W-J-1062, W-J-2026, W-J-2040, W-J-3027, W-J-5017, W-J-5019, W-J-5021, W-J-5030, W-J-5034, W-J-5040, W-J-7015, W-J-7017, W-L-1100, W-L-1103, W-L-1105, W-L-1107, W-L-1109, W-L-1115, W-L-1117, W-L-1119, W-L-1121, W-L-1160, W-L-1162, W-L-2105, W-L-2133, W-L-2136, W-L-3093, W-L-3095, W-L-5058, W-L-5060, W-L-5062, W-L-5076, W-L-5085, W-L-5093, W-L-7036, W-L-7037.

Biostop Wrap Strip for use in Through-Penetration Firestop System Nos. C-AJ-2158, C-AJ-2179, C-AJ-2183, F-C-2062, F-C-2070, F-C-2079, F-C-2133, W-J-2024, W-J-2028, W-J-2036, W-J-4018, W-J-5023, W-L-2103, W-L-2107, W-L-2122, W-L-4022, W-L-4024, W-L-5064.

Biostop Pillows for use in Through-Penetration Firestop System Nos. C-AJ-0053, C-AJ-3123, W-J-0005, W-J-4018, W-L-0005, W-L-0007, W-L-4022, W-L-4024.

BF-150 Caulk for use in Through-Penetration Firestop System Nos. C-AJ-1271, C-AJ-1273, C-AJ-3135, W-J-1057, W-L-1139, W-L-1141, W-L-1143, W-L-1145, W-L-3109.

BF-150 Caulk also Classified in accordance with ASTM E-136-96a, "Standard Test Method for the Behavior of Materials in Vertical Tube Furnace at 750 degrees C."

THERMAL CERAMICS INC

R11044

2102 OLD SAVANNAH RD, AUGUSTA GA 30906

FireMaster Blanket for use in Joint System No. FF-S-1023.  
 FireMaster Mastic 35-01 for use in Joint System No. FF-S-1023.  
 FireMaster Bulk for use in Through-Penetration Firestop System Nos. CAJ0023, CAJ1053, CAJ1077, CAJ3032, and CAJ7004.  
 FireMaster Blanket for use in Through-Penetration Firestop System No. CAJ1053.  
 FireMaster Mastic 35-01 and 45-01 for use in Through-Penetration Firestop System Nos. CAJ1053 and CAJ3032.  
 FireMaster Putty for use in Through-Penetration Firestop System Nos. CAJ0023, CAJ1077, CAJ1078 and CAJ7004.

TREMCO INC

R13423

3735 GREEN RD, BEACHWOOD OH 44122

Dymeric or Dymeric 240 for use in Joint System Nos. FF-S-1015, HW-S-1004, WW-S-0005, WW-S-0006, WW-S-1004, WW-S-1005, WW-S-1006, and WW-S-1018.  
 Dymeric 511 for use in Joint System Nos. FF-D-0009, FF-D-0010, FF-S-0025, WW-D-0009, WW-D-0010 and WW-S-0030.

TREMstop Acrylic for use in Joint System Nos. FF-S-0022, HW-D-0016, HW-D-0017 and WW-S-0024.

Fyre-Sil for use in Joint System Nos. FF-S-0023 and WW-S-0025.

Fyre-Sil S.L. for use in Joint System No. FF-S-0023.

TREMstop Acrylic for use in Through-Penetration Firestop System No. C-AJ-1205, C-AJ-2160, C-AJ-5089, F-A-1008 and F-A-5010.

TREMstop Intumescent Acrylic for use in Through-Penetration Firestop System Nos. C-AJ-2184, C-AJ-1302, C-AJ-2229, C-AJ-2232, C-AJ-2233, C-AJ-3141, C-AJ-3144, C-AJ-5111, C-AJ-5120, C-AJ-5121, F-A-2024, F-A-2029, F-A-2038, F-A-2042, F-C-1050, F-C-1054, F-C-2135, F-C-2136, F-C-2144, F-C-2145, F-C-2146, F-C-2147, F-C-3037, F-C-5055, W-J-1047, W-J-1047, W-L-1113, W-L-2129, W-L-2158, W-L-2159, W-L-2161, W-L-2176, W-L-2177, W-L-3131, W-L-5081, W-L-5082, and W-L-5083.

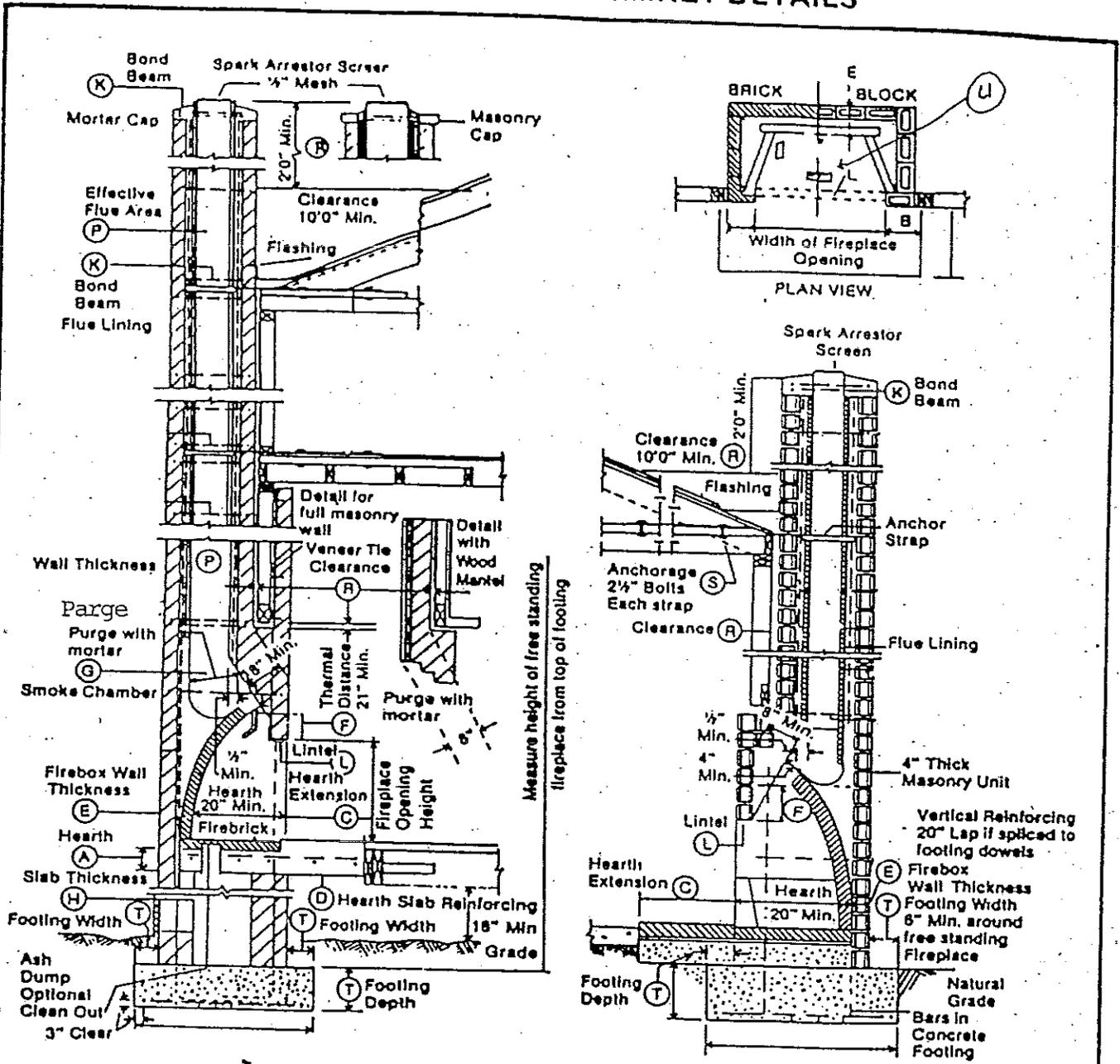
Fyre Shield Sealant for use in Through-Penetration Firestop System Nos. C-AJ-1028, C-AJ-1029, C-AJ-1047, C-AJ-1065, C-AJ-1113, C-AJ-1187, C-AJ-1233, C-AJ-2071, C-AJ-3022, C-AJ-5023, C-AJ-7031, C-BJ-5005, W-J-1011, W-J-1012, W-J-3009, W-L-1020, W-L-1097, W-L-7011 and W-L-3018.

Fyre Sil Sealant for use in Through-Penetration Firestop System Nos. C-AJ-0011, C-AJ-1064, C-AJ-1145, C-AJ-1179, C-AJ-2114, C-AJ-2115, C-AJ-2068, C-AJ-2069, C-AJ-2072, C-AJ-2073, C-AJ-2074, C-AJ-2075, C-AJ-2076, C-AJ-2081, C-AJ-2082, C-AJ-2084, C-AJ-2085, C-AJ-3036, C-AJ-5043, C-AJ-5053, C-AJ-5067, C-AJ-6007, C-AJ-8057, W-J-1011, W-J-1012, W-L-1019, W-L-1020, W-L-2060, W-L-2061, W-L-2062, W-L-2063, W-L-2065, W-L-2083 and W-L3017.

Village of Vernon Hills  
Community Development Department – Building Division  
290 Evergreen Drive, Vernon Hills, IL 60061  
Phone 847-367-3704 Fax 847-367-2541 <http://www.vernonhills.org>

# **FIREPLACE AND CHIMNEY DETAILS**

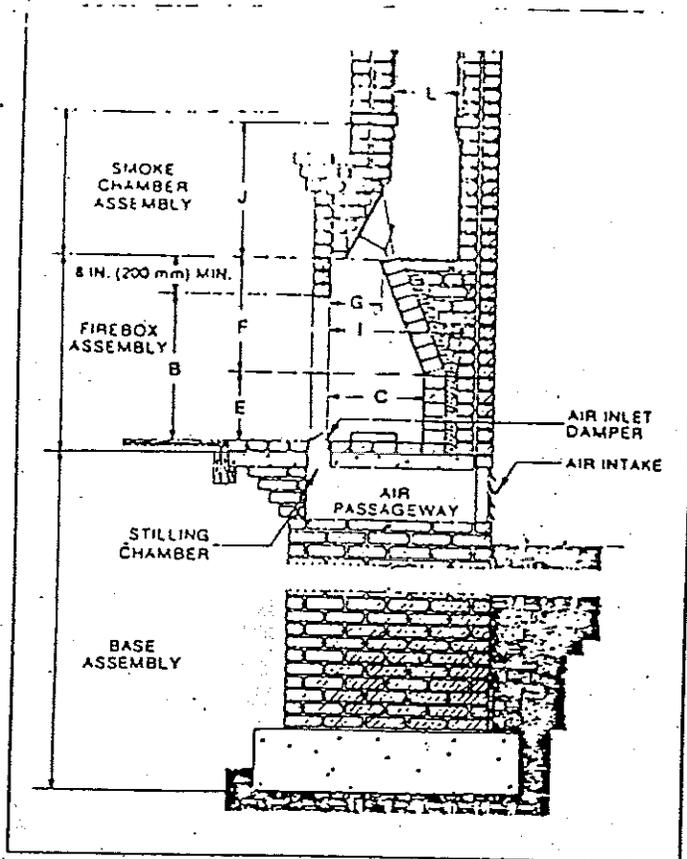
# FIREPLACE AND CHIMNEY DETAILS



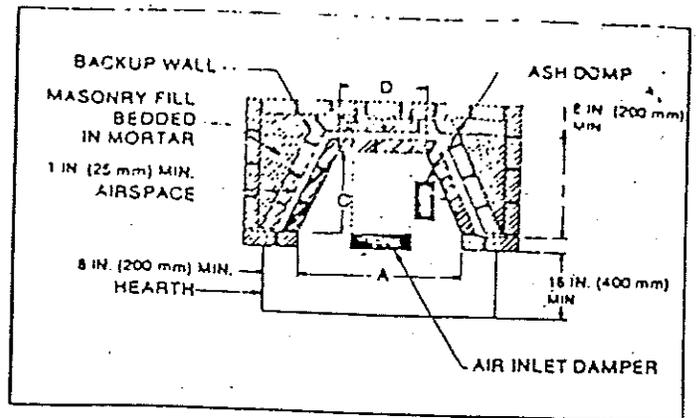
**BRICK FIREBOX AND CHIMNEY—  
SECTIONAL SIDE VIEW ON WOOD FLOOR**

**BRICK FIREBOX AND CHIMNEY—  
SECTIONAL SIDE VIEW ON CONCRETE SLAB**

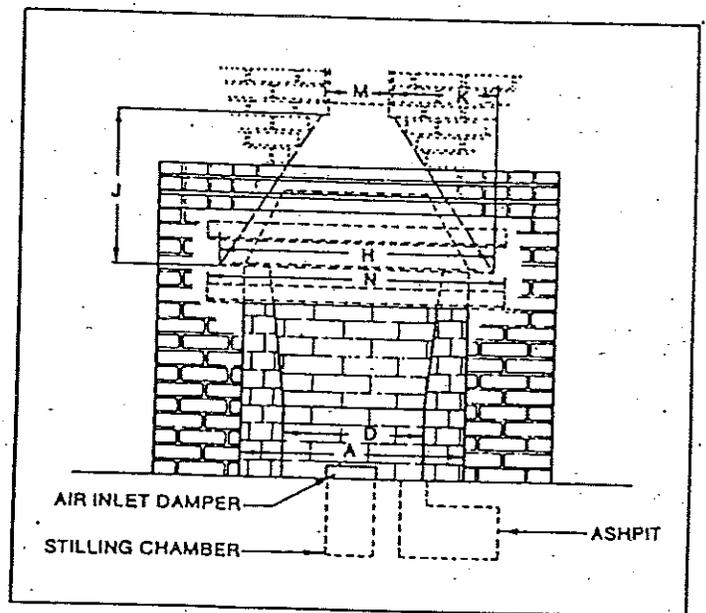
A	Hearth Slab Thickness	U Outside Air to Front of Fireplace
B	Hearth Extension (Side)	
C	Hearth Extension (Front)	
E	Thickness of the wall of Firebox	
F	Distance from Top of Opening to Throat	
G	Smoke Chamber	
P	Flue Area Per Sq. Inch of Fireplace Opening (1:10 min)	
R	Clearances - (21" min)	
T	Footing	



Single-Face Fireplace Section  
FIG. 1a



Single-Face Fireplace Plan  
FIG. 1b



Single-Face Fireplace Front Elevation  
FIG. 1c

## Multi-Face

Although generally associated with contemporary design, the multi-face fireplace is also of ancient origin. For example, the so-called corner fireplace which has two adjacent open sides has been in use for several hundred years in Scandinavia.

Multi-face fireplaces may have adjacent, opposite, three and even all faces open. Some of these may present design problems which must be solved before satisfactory performance can be expected. Multi-face fireplaces will be discussed in another issue of *Technical Notes* in this series.

## FIREPLACE DESIGN

### General

While the design recommendations given here are for single-face fireplaces, all fireplaces include the same basic assemblies. These are the base assembly, firebox assembly and smoke chamber assembly.

### Base Assembly

The base assembly consists of the foundation and hearth support, as shown in Figs. 1 and 2. It is not

necessary that all of these components be present. For slab-on-grade construction, the slab may act as both the foundation and the hearth support, providing it is properly designed.

**Foundation.** Masonry fireplaces should be supported with an adequately designed foundation. A typical foundation is illustrated in Figs. 1 and 2. This foundation may consist of footings which may support either foundation walls or a structural slab. Local building codes may differ as to permissible soil pressures for foundations. The *minimum* requirements contained in many building codes for the various foundation components are:

Village of Vernon Hills  
Community Development Department  
290 Evergreen Drive, Vernon Hills, IL 60061  
Phone 847-367-3704 - Fax 847-367-2541 – www.vernonhills.org

## SITE MANAGEMENT AND EROSION CONTROL GUIDELINES

### 1 & 2 FAMILY RESIDENTIAL Multi-Unit Residential Development Projects

The purpose of this handout is to inform a builder of the Village requirements for site development in order to prevent excessive soil erosion, sediment buildup in the Village storm sewers and creeks; damage to street curbs and pavement, excessive dust in the construction area and construction debris being spread to other sites.

The following is the list of Village requirements:

1. A proposed grading plan showing the house location, proposed top of foundation elevation (including all variations in the top of foundation elevation), existing and proposed grades in one foot contours, existing vegetation to remain and proposed erosion control measures must be submitted to the Building Division, for approval by the Village Engineer, at the time of the plan submittal for a Building Permit. A designated person will be responsible for all soil erosion/sediment control. Before the issuance of the building permit, the attached responsible person form is to be returned to the Village.
2. Erosion control measures shall be installed prior to the commencement of construction activity on a site. **The Village Engineer will inspect the erosion control measure and conditions of the public improvements at the site. This is the first inspection on every project. No requests for other inspections will be honored without passing the erosion control inspection.** The request for this inspection must be made to the Community Development Division. The Village reserves the right to issue a stop work order and to assess fines if the erosion control measures are not maintained to provide the intended protection.
3. The streets adjacent to a site must at all times be kept free of soil and debris. At a minimum, silt fencing shall be placed immediately inside the curb adjacent to the street right-of-way for the entire width of the parcel. Other construction site erosion control barriers may be needed and shall be installed as specified on the erosion control plan. The soil deposited on the streets, near the site and elsewhere on the neighboring streets, as a result of construction activities must be removed as soon as possible, but in no case later than the end of the working day. On larger projects, where dust may be a problem, water must be used during the street cleaning operation. Building inspections may be refused if the streets are not kept to expected standards of cleanliness. The streets are to be kept clean at all times by mechanical methods.
4. Each site must be cleared of any excess spoils by the time the foundation is backfilled and rough graded to within 3 inches of final grade. However, a small pile of spoils may remain on site for backfilling and settlement purposes. Location of soil pile shall be maintained when possible a minimum distance of 25 feet from the curb of any public

right-of-way, drainage ways and property lines. Soil piles used for backfilling shall be continually protected with properly installed silt fencing, straw bales or 25 footwide vegetation strip until the soil pile is utilized or removed.

5. Ideally the process of excavating the foundation, removal of excess spoils, installation of footings and foundation walls, and backfilling shall all occur within two (2) weeks of initial land disturbance.
6. Unless otherwise approved by the Village Engineer, each construction site must have only one entry, preferable at a proposed driveway location. The curb cut must be made before framing is stated.
7. Graveled access drives shall be so located to provide maximum use by all construction vehicles. For 1 and 2 family dwellings, a minimum of 1 to 2 inch crushed stone or larger access drive shall be installed prior to the spot survey being submitted for approval. Said drive shall be 6 inches in depth, 16 feet wide and extend to the front foundation of home or attached garage or a minimum of 50 feet. All or part of this stone, if contaminated by soil during the construction process, may require replacement prior to installation of asphalt or concrete.
8. A Foundation spot survey shall be submitted prior to the commencement of above ground construction. The survey shall specify the location and height of the foundation, rough grade at foundation and at the property line, and height and location of all dirt piles. The approved finish grade elevations shall also be shown at the foundation and at the property line. Numbers used shall conform to those on the approved drainage plan.
9. Request inspections upon submittal of spot foundation survey. The erosion control barriers and gravel drive shall be fully installed at this time and continually maintained throughout the course of construction. Above-ground construction shall not commence until the foundation, grading, erosion measures, and survey and site have been approved by the inspector.
10. The construction site shall be kept clean and neat at all times. Building debris shall be deposited in recycling containers, dumpsters, custom containers or placed in the garage at the end of each workday.
11. All storm drain inlets and catch basins located on private property or within the public right-of-way adjacent to the construction shall be protected with an approved filter fabric material.
12. Enforcement:  
Contractors will be notified via telephone or in person of erosion control violations.

The violations shall be corrected within 24 hours of being notified. Failure to correct the violations within said 24 hours shall be cause for the inspector to issue a stop work order. Upon the violation being corrected, inspection, and a reinspection fee paid, work may again proceed.

VILLAGE OF VERNON HILLS  
290 EVERGREEN DRIVE  
VERNON HILLS IL 60061  
(847) 367-3700

COMMUNITY DEVELOPMENT DEPARTMENT  
ENGINEERING DIVISION (847) 367-3726  
BUILDING DIVISION (847) 367-3704

## NOTICE OF VIOLATION

### SOIL EROSION & SEDIMENT CONTROL

Notice is hereby served that you are in violation of the Village of Vernon Hills/Lake County Watershed Development Ordinance, Article IV, Section B(1)(j). The depositing of mud, dirt, sediment, litter, construction or landscaping materials upon any improved public right-of-way, street, alley, public place, private property or waterway is prohibited.

Failure to correct by \_\_\_\_\_ shall cause the issuance of a STOP WORK ORDER for the project.

Continued violation, neglect or refusal to comply with the provisions of this Section by the date specified shall also be cause to assess a fine of not less than fifty dollars (\$50) nor more than five hundred dollars (\$500) for each offence. Each day that such violation is committed or permitted to continue shall constitute a separate offence.

Description of Violation: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Address/Project Name: \_\_\_\_\_

Date of Violation: \_\_\_\_\_ Time: \_\_\_\_\_ Inspector: \_\_\_\_\_

Notice of Violation hand-delivered to: \_\_\_\_\_

SAMPLE

Village of



290 Evergreen Drive · Vernon Hills, IL 60061-2999 · 847-367-3700

January 25, 2002

**Community Development Department  
Contractor Information**

**Subject: Erosion Control -  
Residential Construction Site Silt Fence Placement Detail**

Dear Local Building Contractor,

In our ongoing effort to minimize soil erosion and mud tracking on Village streets, Village Engineer David Brown has created a silt fence detail that specifies acceptable location and installation criteria.

At a minimum, silt fencing shall be installed across the entire width of the parcel within the parkway, between 2 ½ - 5 feet from the back of the curb. The silt fence shall be trenched into the ground a minimum of 6 inches. Please be careful not to damage buried utility lines.

Besides minimizing soil erosion on to the public right-of-way, the silt fencing acts as a barrier to curtail workers and delivery vehicles from accessing the site at areas other than on the approved gravel driveway. We encourage you to copy and distribute this information to your field staff, sub-contractors, and delivery personnel.

Effective November 1, 2000, all new silt fence installations and repairs to existing fencing shall comply with the attached detail(s). Existing fencing may remain until such time the project is completed or repairs to the fencing are required.

As always, please feel free to contact Village Engineer David Brown, an inspector, or me with your questions.

Sincerely,

A handwritten signature in black ink, appearing to read "V. Gerth".

Vernon J. Gerth  
Building Commissioner

Enclosure

c. David Brown  
Building Inspectors  
Engineering Technicians



290 Evergreen Drive • Vernon Hills, Illinois 60061-2999  
847-367-3700 • FAX 847-367-2541

Community Development Division

*Responsible Person, Soil Erosion Control – Residential*

The Watershed Development Ordinance requires that Developers, Contractors or the permit applicant designate a responsible person in charge of sedimentation / erosion control. The designee will be responsible for the maintenance of all sediment and erosion control items at all times. The designee will be responsible to react to all violations or discrepancies *immediately* after notification. The designee is required to complete a *Soil Erosion and Sediment Control Inspection Report* (attached) monthly for record that the site is being kept in compliance with the Village's requirements. These reports must be kept on site with the permit at all times, and a copy of the report is to be submitted by fax or mailed to the Village Community Development Division as well.

All material delivery and the storage of materials for the site is prohibited within the Village Right of Way (15' from the back of curb typical), unless written approval by the Village is granted. All sites must be cleaned by the end of each work day, or more frequently if required by the Village. Existing storm structures are to be protected from sediment deposits at all times.

Failure to comply will result in the issuance of a fine(s) and/or a 'STOP WORK ORDER' for the entire site.

TO BE COMPLETED PRIOR TO ISSUANCE OF PERMIT (please print)

Designee: \_\_\_\_\_ Contact Number \_\_\_\_\_

Permit Applicant/ Contractor/ Company Name \_\_\_\_\_

Date \_\_\_\_\_

Project Address \_\_\_\_\_ Pod \_\_\_\_\_ Lot \_\_\_\_\_

Permit Number \_\_\_\_\_

Received By \_\_\_\_\_

Village of



290 Evergreen Drive • Vernon Hills, IL 60061-2999

Phone 847-367-3565 • Fax 847-367-2541

Engineering Division

## SOIL EROSION AND SEDIMENT CONTROL SE/SC INSPECTION REPORT

Project Name: \_\_\_\_\_ Permit #: \_\_\_\_\_

Inspection Date: \_\_\_/\_\_\_/\_\_\_ Time: \_\_\_\_\_ Inspected by: \_\_\_\_\_

### STAGE OF CONSTRUCTION

\_\_\_\_\_ Pre-Construction Meeting  
\_\_\_\_\_ Clearing and Grubbing  
\_\_\_\_\_ Temporary Stabilization  
\_\_\_\_\_ Finish Grading

\_\_\_\_\_ Initial Installation of SE/SC Measures  
\_\_\_\_\_ Rough Grading  
\_\_\_\_\_ Building Construction  
\_\_\_\_\_ Final Stabilization

### INSPECTION CHECKLIST

Yes No N/A

- Have all sediment trapping measures been installed prior to site disturbance?
- Have all soil erosion and sediment control devices indicated on the permitted plan set been installed?
- Are all soil stockpiles adequately stabilized with the use of temporary seed and a sediment trapping device?
- Are all perimeter sediment control devices properly installed and maintained?
- Are all sediment basins and/or traps properly installed, stabilized and maintained in working condition?
- Have all stormwater management systems been constructed, stabilized and are functioning?
- Have all disturbed areas been stabilized with temporary or permanent measures within 14 days of the end of active hydrologic disturbance?
- Are finished cut and fill slopes adequately stabilized?
- Has all erosion control blanket, hydro-mulch, mulch or other erosion control devices been installed where required?

Yes No N/A

Are stormwater conveyance channels adequately stabilized with channel lining and outlet protection?

Do all operational storm sewer inlets have adequate inlet protection?

Do all construction ingress and egress points have a stabilized construction entrance installed?

Are soil and mud being kept off all adjacent public roadways?

Are measures being taken to control dust?

Are all utility trenches being properly backfilled, tamped and stabilized?

Are temporary stream crossings of non-erodible material installed where applicable?

Is necessary re-stabilization of in-stream construction complete?

Have all temporary control structures that are no longer needed been removed within 30-days of final stabilization?

Is there evidence of sediment leaving the site affecting downstream property? Please explain: \_\_\_\_\_

WEATHER CONDITIONS: \_\_\_\_\_

SITE CONDITIONS: \_\_\_\_\_

COMMENTS: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

REPORT BY: \_\_\_\_\_

\*\*\*THIS REPORT NEEDS TO BE DUPLICATED BY CONTRACTOR AND IS TO BE COMPLETED AS REQUIRED

**INSPECTIONS**

**REQUIRED**

Village of Vernon Hills  
 Community Development Department - Building Division  
 290 Evergreen Drive, Vernon Hills, IL 60061  
 Phone 847-367-3704 - Fax 847-367-2541 - <http://www.vernonhills.org>

**INSPECTION TIMING CHECKLIST FOR  
 RESIDENTIAL FRAME BUILDING**

<u>TYPE OF INSPECTION</u>	<u>WORK TO BE COMPLETED PRIOR TO INSPECTION REQUEST</u>	<u>APPROVAL PRIOR TO PROCEEDING WITH WORK</u>
1) Engineering Pre-Construction	*Silt fence and tree preservation, temporary stone driveway. Village Engineer will note condition of existing infrastructure. Any existing damage to street pavement or curb is noted. Builder will not be held accountable for pre-construction damage.	*Excavate for foundation.
2) Footing Inspection or Trench Footing / Foundation	*Geotechnical Engineer's Report (soil test) to be on site for footing inspection. *The footing is completely prepared for concrete. *All concrete forms must be in place. "Key-in" footings. *Reinforcing steel must be in place and supported as required. *Frozen soil will not be permitted under footing. *No fill material is allowed under footing. Footing shall rest on an undisturbed soil.	*Placing concrete in the footing.
3) Basement Wall Formwork Inspection	*Footing inspection passed and footing poured. *Footing has a required keyway. *Forms are in place and all reinforcing steel is installed. *Forms centered in footing. *Form release oil shall not be applied after the reinforcing steel has been installed. Forms must be pre-oiled prior to setting in place. Minimum two wing walls by every Door for stoop support. Tie in with Rebar to foundation.	*Placing concrete in the forms.

4) Building Sewer And Water Inspection

- \*The sewer pipe of proper material between the public main and the building wall is in place.
- \*The water pipe of proper material between the public main and the building wall is in place.
- \*Connections to Sewer and Water mains are exposed for observation.
- \*Required separation is maintained between Water and Sewer pipes.
- \*Clean out is installed on building sewer within five (5) feet of foundation wall.

5) Backfill

- \*All parging and waterproofing is complete. \*Backfilling
- \*Approved damproofing must be provided from the footing to the finished grade.
- \*Drain tiles must be in place, covered with adequate depth of approved material and pitched and tied to a sump pit. Gravel backfill is covered with an approved filter membrane.
- \*Windows below grade must be protected by window wells with drain pipe connected to footing drain tile.
- \*Walls must be sufficiently braced to prevent damage by backfilling. Foundation insulation in place if required.

6) Ground Work Inspection (Plumbing and Mechanical)

- \*All underground sewer and all water pipes beneath a concrete floor slab are installed. \*Preparing area for concrete slab.
- \*All piping must be tested in accordance with Section 890.2230 of the State Plumbing Code and the test must be witnessed and approved by an inspector.
- \*All underslab ductwork shall be of approved material and installed in such a way that it will be encased in concrete after the concrete placement or in accordance with manufacturers instructions. Duct work must be pitched back to furnace. All joints are to be sealed with an appropriate material.



\*Junction boxes must be installed in accordance with their listing (ceiling, fans, etc.).

\*Grounding continuity must be maintained either through metal conduit or through the grounding equipment conductor. No conductors shall be pulled until after drywall is in place.

\*Approved grounding electrode conductor must be installed to connect neutral buss terminal of service panel and water service pipe on the village side of water meter.

\*All low voltage conduit and wiring must be installed at this time.

13) Building Framing/Fire-stopping/Mechanical Inspection

\*All plates are installed and secured to the foundation walls as required.

\*Bottoms of all columns are braced against lateral displacement.

\*All nuts are wrench tight.

\*All concealed wall cavities are separated from concealed ceiling cavities by an approved firestopping method.

\*All penetrations through floors, plates and soffits are to be firestopped.

\*All stairways are in place and secured or temporary if stairs are custom made.

\*The dwelling is weather tight, both the exterior sheathing and the roof must be completed. All windows and doors installed.

\*Framing connectors are used where required.

\*There is a direct path for all the forces through structural members to the building foundation.

\*Electrical and plumbing rough-in inspections are approved.

\*No drywall or insulation delivered until after approval of inspection.

\*Insulating.

\*Installing drywall.

14) Insulation

\*All rough-in inspections are approved.

\*Appropriate R-values are maintained.

\*Installing drywall.

- \*Vapor barrier is free of holes.
- \*When temperatures are less than 50°F, heat must be provided.

15) Rough Grading

- \*Surveyor will stake all key points shown on permit plat. (Stakes to remain in place for final grading.) Construction debris and excess stone must be removed from rough grade prior to placing topsoil.
- \*Curb Sawcutting-Dots of paint will indicate where curb is to be sawcut. Village Engineer will approve/disapprove location prior to sawcut. (Sawcut should be done as late as possible to minimize curb damage.)
- \*Sidewalk-surveyor will stake location and grade of sidewalk. Prior to framing, proofroll subgrade using skidsteer.
- \*Driveway apron-Prior to framing, proofroll subgrade using a skidsteer. Village Engineer will mark any damaged curb.

16) Final Electrical Inspection

- \*All appliances, fixtures, outlets, panels, switches, etc. are installed, as well as all cover plates.
- \*All electrical wiring is complete.
- \*All circuits are identified in the panel index
- \*Using any equipment, appliance outlets, panel switches, etc.
- \*Electrical, mechanical, plumbing and building finals may be done in any order.

17) Final Plumbing Inspection

- \*All drywall penetrations are properly covered.
- \*All plumbing fixtures and piping are complete and operating properly.
- \*All roughed in plumbing fixtures for future use are capped, vented.
- \*All appliances must be accessible for maintenance, repair and removal.
- \*All floor drains shall be visible and serviceable.
- \*Water meter and remote reader must be in place.
- \*Yard clean-out must be accessible for inspection.
- \*Water heater to be 110°F max.
- \*Using plumbing and gas systems.
- \*Electrical, mechanical, plumbing, and building finals may be done in any order.
- \*Issuing a Certificate of Occupancy.

18) Final Building/Mechanical Inspection

- \*All exterior finishes are complete and caulked (siding, soffits, fascia,
- \*Issuing a Certificate of Occupancy.

trim).

- \*Driveway must be installed.
- \*Street address is attached to the house in an approved manner. Shall contrast in color to house trim.
- \*All surfaces inside of a house are properly finished.
- \*All trim is in place.
- \*All work on the approved plans is completed.
- \*All floor covering is installed (homeowner may elect to install his/her own floor covering. This must be done within two (2) weeks from the date of issue of Temporary Certificate of Occupancy.
- \*Lot must be graded with black dirt to provide positive drainage away from house.

\*Occupying any part of the building.

\*Electrical, mechanical, plumbing, and building may be done in any order.

- 19) Fine Grading, Landscaping
- \*Survey stakes must be in place and topsoil groomed to meet approved grading plan. No plant material to be placed until fine grade has been inspected. Approval will be subject to acceptance of the lot grading *As Built*.
  - \*Driveway, sidewalk and topsoil must be placed.
  - \*Landscape-front yard and parkway shall be sodded. Rear yard shall be seeded unless otherwise required. Drainage swales may require proper installation of sod or straw erosion control blanket. Inspection of parkway tree and/or additional landscaping may be required at this time.

\*Issuing a Certificate of Occupancy.

- 20) Certificate of Occupancy
- \*All final inspections have been approved.
  - \*Certified lot grading *As Built* Survey, showing substantial conformance with approved grading plan, to be approved by Village Engineering Department. (Two ties locating b-box from corners of home to be included on *As Built*.) Utilities must be adjusted to grade.

\*Issuing a Certificate of Occupancy.

\*Temporary Certificate of Occupancy will be issued only in the following cases:

- a) Fine grading is not possible due to weather conditions
- b) Driveway cannot be installed due to weather conditions.
- c) Landscaping work cannot be completed due to weather conditions
- d) Homeowner elects to install his/her own floor finishes.

\*Temporary Certificate of Occupancy (Fee: \$100.00) issued for a maximum of 30 days. This term can be extended upon Code Official approval.

**CERTIFICATE OF OCCUPANCY**  
**TEMPORARY AND FULL**  
**CHECKLIST**

Village of Vernon Hills  
Community Development Department  
290 Evergreen Drive, Vernon Hills, IL 60061  
Phone 847-367-3704 - Fax 847-367-2541 - <http://www.vernonhills.org>

**RESIDENTIAL CERTIFICATE OF OCCUPANCY  
INSPECTION CHECKLIST**

*NOTE: All temporary occupancy permits granted between November 16<sup>th</sup> through May 14<sup>th</sup> shall expire on June 15<sup>th</sup>.*

**EXTERIOR**

1. Building Address and Erosion Control – Installed.
2. Exterior Grade - Black dirt shall be installed between May 15 through November 15. Between November 16 through May 14 the lot, at a minimum, shall be rough graded to within six (6) inches of finished grade and have positive slope from the building. Edges of paved driveways and walks shall be bermed, with dirt or gravel, for safety.
3. Sidewalks and Driveways – Private, public sidewalks and driveways shall be installed between May 15 through November 15. Between November 16 through May 14 gravel sidewalks to building entrances and driveways shall be installed.
4. Stoops, Steps, and Decks – Shall be completely installed, including hand and guard railings. The area below decks shall be graded to finish grade elevations. All grading shall direct the flow of storm water away from the dwelling.
5. Window Wells – Covers, tile and stone installed.
6. Gutters and Downspouts – Splash blocks on-site, preferably installed.
7. Doors and Windows – Shall be installed and in proper working condition. Caulking shall be completed.
8. Siding, Roofing, and Flashing – Shall be completely installed and caulked.
9. Electrical Service – Service entrance conductors shall be covered with a minimum of 18 inches of dirt.
10. Remote Water Meter and Storm Sewer – Installed.
11. Light Fixtures – Installed, exterior lights caulked

**INTERIOR**

1. Painting and Staining – Completed.
2. Electrical, Plumbing, HVAC – Fixtures and vent diffusers installed.
3. Doors, Interior Trim, and Handrails – Installed.
4. Finished Flooring – Installed.

**MISCELLANEOUS  
INFORMATION**

Village of



290 Evergreen Drive • Vernon Hills, IL 60061 • 847-367-3700

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**Section 5-52. Numbering of Buildings**

- (a) **Street address number required.** It shall be unlawful for any owner or occupant of any building within the village to permit any structure or building to be owned or occupied without designating thereon the street address number as assigned thereto by the building commissioner and to fail to display the address number in accordance with the requirements of this section.
- (b) **Number design.**
  - (1) Street address numerals of an approved design may be attached to, or depicted directly on, the building, but in any event shall be visible from the main accessway to the address and shall be and remain unobstructed.
  - (2) The minimum size of the street address numerals shall be proportionate to the distance that the main accessway of the property is to the location of the building, in accordance with the following schedule.

*Size of Numerals*

<i>Distance</i>	<i>Height (inches)</i>	<i>Width of Stroke (inches)</i>
0 to 65 feet	3	1/2
65 to 100 feet	4	3/4
100-up feet	6	1

- (3) The numbers on the building shall be arabic in style, shall be block numerals, and shall be of contrasting color as compared with the surface on which the numbers are mounted, drawn or displayed, and shall be separate from any other permissible sign upon the structure or building.

**Village of Vernon Hills**  
Community Development Department - Building Division  
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Phone 847-367-3704 - Fax 847-367-2541 - <http://www.vernonhills.org>

## MAILBOX INSTALLATION GUIDELINES

### MATERIALS

**Post – 4” x 4” x 80”:**

A *treated* wood post is recommended over steel. Wood posts are unaffected by road salt which significantly accelerates the corrosion of metal posts. The mailbox shall be mounted on a support structure which is a minimum of 4” x 4” or a maximum of 6” x 6” treated wood post, or a minimum 1½” to a maximum of 3” diameter light gauge galvanized steel hollow pipe, or on such other similar structure as is approved by the Director of Public Works, and found by him to be of comparable safety to the wooden post or light gauge steel pipe structures.

Other support structures such as, but not limited to, masonry columns, railroad rails and ties, tractor wheels, plow blades, milk cans, or barrels filled with concrete are expressly prohibited.

**Mailbox:**

The mailbox should be U.S. Postal approved and securely attached to the post. A standard mailbox is recommended over the more esoteric varieties for three reasons. First, they tend to weather the impact of snow coming off plows better. Second, Village policy limits mailbox reimbursement to \$50.00. Finally, most people find a row of standard mailboxes actually looks better than a cluttered array of artistic interpretations of what should be a rather utilitarian container. Save yourself money and improve the aesthetics of your neighborhood; buy a standard box.

### INSTALLATION

**Before You Do Anything:**

Call J.U.L.I.E. at 1-800-892-0123, Lake County Public Works at 680-1600 and the Village Public Works Department at 367-3726. Call at least 48 hours before you even start to look for your shovel so all underground utilities can be located. If you do not call before you dig, you might be in for quite a surprising jolt. You would also be violating state law.

**Locating the Post:**

The center of the post should be located 24 inches behind the back of the curb and 4 feet from any fire hydrant. The hole should be approximately 36 inches deep to deter frost heaving. A small amount of concrete placed in the hole will help set the post in place.

**Locating the Box:**

The mailbox itself should be 42 inches off the ground so the mail carrier can easily place mail in your box from his/her vehicle. The face of the mailbox should not be less than 6” or more than 12” behind the curb so it does not get hit by snowplows (or their marker flags).

Following these guidelines in accordance with Ordinance No. 93-43 will alleviate most mailbox problems. Of course, we cannot guarantee that your mailbox will last forever. Wet, heavy snow has quite an impact as it comes off a snowplow blade. And, in any direct skirmish between an errant plow or car and your mailbox, your mailbox will certainly lose. Rest assured that we do all we can to keep such skirmishes to an absolute minimum and appreciate your efforts to install a mailbox in accordance with the instructions above. If you have any questions, please do not hesitate to call the Vernon Hills Public Works Department at 367-3726.

# North Shore Gas



## READ THIS IF YOU NEED NEW GAS SERVICE IN THE NORTH SHORE GAS TERRITORY

Dear Builder or General Contractor:

The following questions and answers illustrate how, with your help, North Shore Gas Company can be a partner in your new building construction planning and provide better customer service, especially now that the building season has grown into a year round activity.

**Q. When's the best time to call North Shore Gas for new service?**

A. Immediately after receiving a new building construction permit.

**Q. Why so soon; what's the rush?**

A: Depending on new construction demand, it can take up to 6 weeks in warm weather and 8 weeks during the heating season to schedule installation of a brand new gas service line.

**Q. You mean North Shore Gas will take an order for new service even before a foundation hole has been dug?**

A. Yes! That's the ideal time, because then we can plan to install our service line as soon as your foundation is poured and back filled ...and we're out of the way!

**Q. How can I enjoy these "early bird" advantages?**

A. Again, simply call your North Shore Gas representative below immediately after you obtain your new building permit:

New residential permits: call Sue Horton at 847-263-4645.

New commercial and industrial permits: call Joseph Chinick at 847-263-4643.

**Q. What information should I have ready when I call?**

A. You will need the following basic facts: the official address of the property, the lot number, the subdivision if any, and a list of the gas appliances to be installed in the new building, along with their BTU inputs.

As you can see, alerting us early about your new construction plans not only allows us to provide improved customer service but can also translate into potentially significant time and dollar savings for you. We look forward to working closely with you.

Thanks for your cooperation,

NORTH SHORE GAS COMPANY