

Firestop Products & Systems Submittal Documentation

Service Penetrations
 Construction Joints/Gaps

Project:

Contractor:

Installer:

Supplier:

Grabber Construction Products, Inc.
866-237-GRAB(4722)

Distributor:

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Joint Systems

Type of assembly joint system:

BW – Bottom of Wall

FF – Floor to Floor

FW – Floor to Wall

HW – Head of Wall

PJ – Perimeter Joint

WW – Wall to Wall

Type of Assembly	System #	GrabberGard Product Used	System Details	
HW	HW-D-0368	EFC	1 & 2 hr - gyp wall to metal deck - 3/4 in. joint	10
HW	HW-D-0369	EFC	2 hr - concrete wall to concrete floor - 3/4 in. joint	13
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GENERAL CERTIFICATE OF CONFORMANCE

Grabber Construction Products, Inc.
205 Mason Circle, Concord, CA 94520

GrabberGard EFC, IFC & EFS

THESE PRODUCTS ARE TESTED TO THE FOLLOWING TEST STANDARDS

In the USA:

ASTM E-814 Standard Test Method for Fire Tests of Through Penetrations Fire Stops

ASTM E-1399 Cyclic Movement and Measuring the Minimum and Maximum Joint Widths of Architectural Joint Systems

UL 1479 Fire Tests of Through-Penetration Firestops

UL 2079 Tests for Fire Resistance of Building Joint Systems

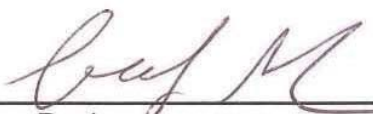
In Canada:

ULC S115-M95 Standard Method of Fire Tests of Firestop Systems

TESTED BY THIRD PARTY AGENCIES

Underwriters Laboratories, Inc. (UL)
Intertek Testing Services Inc. – Warnock Hersey (WHI)

No Asbestos or PCBs are used or contained in this product.



George Rouhana
Executive Director

01/11/2013

Date



LEED is a trademark of the US Green Building Council

To Whom It May Concern:

Re: LEED Information on Grabber Construction Products' GrabberGard Firestopping Products

This letter will detail the contribution of Grabber Construction Products' GrabberGard firestopping products to the LEED® (Leadership in Energy and Environmental Design) Green Building Rating System® in accordance with LEED-NC Version 2009 For New Construction & Major Renovations.

In reference to LEED® Material and Resource (MR) – Credit 2 – Construction Waste Management – the following Grabber' materials are recyclable where facilities exist:

<u>Packaging</u>	<u>Recyclable Product</u>	<u>Weight Per Unit</u>
Carton	Cardboard	56 g – EBI-60 70 g – Putty Stick 190 g – 10 oz plastic tube 350 g – 20 oz foil package 410 g – 10 L plastic jar 600 g – 29 oz plastic tube
10.1 oz (300ml) plastic tube	HDPE	49 g / Tube
20 oz (600ml) foil pack	Aluminum	5 g / Pack
29 oz (850ml) tube	Fiberboard	84 g / Tube
35.2 oz (1L) EZ pour plastic bottle	HDPE	50 g / Bottle
2.5 gallon (9.5L) plastic pai	HDPE	0.8 kg / Pail
2.65 gallon (10 L) plastic jar	HDPE	345 g / Jar
5 gallon (18.9L) plastic pail	HDPE	1.2 kg / Pail
Wooden pallet	Wood	21 kg / Pallet

In reference to LEED® Material and Resources – Credits 4.1 & 4.2 – Recycled Content, all GrabberGard firestopping products contain 5% post-consumer recycled content.

In reference to LEED® Material and Resources – Credit 5 - Regional Materials, Grabber can confirm that a minimum of 50% of the raw materials used in manufacturing the GrabberGard firestopping products are sourced and processed within a 500-miles radius of our manufacturing facility in Vancouver, BC.

If the project site is located within a 500-mile radius of our manufacturing site then this manufacturing site can contribute to earning Materials and Resource Credit 5.1 & 5.2.

The volatile organic content (VOC) of GrabberGard firestopping products are listed below and meets the minimum LEED® requirements for low-emitting materials. These materials can assist to earn Indoor Environmental Quality (IEQ) – Credit 4.1 – Low-Emitting Materials: Adhesives & Sealants (Architectural Sealants) & Credit 4.2 – Low-Emitting Materials: Paints & Coatings (Architectural Sealants).

GrabberGard Firestopping Product	VOC content [g/L]
EFC	32.5
IFC	37.1
EFS	81.3

If you have any additional questions, please feel free to contact us at (800) 237-4722.

PRODUCT DATA SHEET GRABBERGARD EFC

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Description

GRABBERGARD EFC is a superior performance latexbased endothermic firestop caulk. It has excellent adhesion and bonding characteristics and will not slump or sag out after it has been properly installed. GRABBERGARD EFC elastomeric caulk has been designed to stop the passage of fires, smoke and fumes through fire-rated assemblies after it has been fully cured. GRABBERGARD EFC is chemically compatible with plastic pipes and cable jackets and is water resistant after fully cured. Once cured Grabbergard EFC provides a durable and flexible firestop and can be repaired if damaged or cut.

Applications

GRABBERGARD EFC firestop caulk provides an effective firestop seal when used as a single or multiple component system for through-penetrations, construction joints and voids. To make certain installation is correct, consult manufacturer's current listings, as well as, Third Party published Fire Resistance Directories and/or their websites. GRABBERGARD EFC common uses and features are listed below:

Used on: Single and multiple penetrations

Metallic pipes

- Copper, steel, cast iron
- Conduits

Non-metallic pipes

- ABS, CPVC, FRPP, PE, PEX, PVC
- Rigid and ENT conduit

Insulated pipes

- Fiberglass
- AB/PVC

Electrical cables and wires

- Jacket & non-jacketed

Cable trays

Mechanical ducts

Construction joints/gaps

- Top-of-Wall
- Horizontal and vertical joints
- Perimeter floor joints

Voids

Common construction substrate materials:

- Concrete
- Concrete block
- Steel deck
- Wood
- Gypsum wallboard

Features: Red Color
Non-toxic
Safe and easy to use
Easy clean up (Water Only)
Low volatile organic content (VOC)
No asbestos or PCB
Water resistance (when fully cured)
Mildew resistant (when fully cured)
Paintable (with latex based paints)
Excellent application characteristics

- Flows easily
- No slump
- Superior bond and adhesion

Excellent acoustic properties
Seals smoke and gases
One-component systems

Advantages

Endothermic — When GRABBERGARD EFC is exposed to high temperatures or direct fire, it releases water vapor, forms a solid char and retards the spread of fire.

Single Component

GRABBERGARD EFC Caulk can be used as a single component firestop in many applications. Just install the caulk directly into the opening without using fibrous insulation materials. In many situations GRABBERGARD EFC will replace the more conventional intumescent firestop devices such as pipe collars and wrap strips. This will reduce both the cost and installation time.

Versatility

GRABBERGARD EFC adheres to dry and damp concrete, wood, metals and other common construction material surfaces to form an air and watertight bond. GRABBERGARD EFC can be painted over using a latexbased paint after fully cured.

Flexibility

When installed GRABBERGARD EFC is properly installed in construction joints it will allow up to 33 per cent extension and compression movement of the intersecting assemblies. It will also accommodate longitudinal and lateral movement of through and partial service penetrating items installed in the assembly. GRABBERGARD EFC will remain flexible after it has fully cured.

Disclaimer: All technical advice, recommendations and services rendered by the seller gratis. They are based on technical data, which the seller believes to be reliable, and are intended for use by persons having the skills and know how, at their own discretion and risk. In no event will the seller be liable for any consequential damages arising out of the use of this product.



PRODUCT DATA SHEET GRABBERGARD EFC

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Limitations

Consult the Installation Instructions, Storage and Handling and Transportation Sections. Exposure to rain, running or standing water; before, the sealant is cured may cause the installed material(s) to wash out. The curing process occurs naturally through the evaporation of its water content into the atmosphere. Slower cure times may be experienced if the sealant is installed at low temperatures, damp and/or in high humidity environments. Any materials used in the firestop system for damming, insulation or support that may not allow for the free passage of air could result in longer curing times. The environment in which the compound is being used should be considered when estimating cure times.

Compliance/Approvals

GRABBERGARD EFC has been Third Party tested for many firestop applications. They meet or exceed the requirements of ASTM E 814; ASTM E 119; UL 1479; UL 2079; ULC S 115- M95; ULC S 101; ASTM E 84. Underwriters Laboratories (UL) and Intertek Warnock Hersey are Third Party fire endurance testing agencies accredited by ICBO, BOCA, and SBCCI (National Evaluation Services) in the United States.

Additional Testing

GRABBERGARD EFC caulk becomes an integral component in a complete building system of walls, floor/ ceiling assemblies, service penetration, joints and the like. For this reason, its physical compatibility to other materials used in these complex configurations requires more than the routine firestopping product testing. The results of these additional tests are listed in Table 1, Physical and Chemical Properties.

GRABBERGARD EFC caulk has proven that it has all the physical and chemical characteristics desired in a firestopping product. After it has been installed and fully cured, it has excellent stability and flexibility, even after four weeks at freezing temperatures of -15°F (-26°C) and exposure to extreme temperatures of 300 F(149°C) for 24 hours. Dimensional changes were well within the accepted standards (<2% per ASTM C 356). Dynamic testing has demonstrated the high elasticity properties of GRABBERGARD EFC.

Installation Instructions

GRABBERGARD EFC must be installed in compliance with the listed system designs published by Third Party testing laboratories (UL, ITS Warnock Hersey). Refer to their respective published Fire Resistance Directories and/ or their Websites. GRABBERGARD EFC does not require mineral wool insulation in many applications.

Prep-work

To install properly, remove excessive dust, dirt, debris, grease, oil and standing water.

Application

Apply caulking material with standard cartridge or bulkloading application guns or trowel in place with standard tooling tools. Install the required amount of caulking material into the opening using sufficient pressure to ensure it is in contact with all surfaces, substrates and/ or penetrating items. The manufacturer recommends tooling the surface with a moist putty knife or similar tooling utensil. Tooling the caulking material will create a stronger bond and a smooth finish especially on irregular or porous surfaces. Do not apply GRABBERGARD EFC to mineral wool that is or was wet from exposure to water, standing water, rain or snow.

Caution: Mineral wool may cause eye, skin or respiratory tract irritation. Avoid contact with eyes, skin of clothing. Recommend using gloves and goggles. Refer to mineral wool manufacturer's Material Safety Data Sheets.

Installation Temperature

For best results, installation temperatures should be between 45°-90°F(7°-32°C).

Maintenance

No special maintenance is required after the GRABBERGARD EFC sealant is installed and fully cured. If, after installation, the GRABBERGARD EFC sealant is damaged or cut, repairs should be made with the same sealant.

Disclaimer: All technical advice, recommendations and services rendered by the seller gratis. They are based on technical data, which the seller believes to be reliable, and are intended for use by persons having the skills and know how, at their own discretion and risk. In no event will the seller be liable for any consequential damages arising out of the use of this product.



PRODUCT DATA SHEET GRABBERGARD EFC

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Manufacturer's Recommendations

The manufacturer recommends this product be installed by those trained in proper installation procedures (Approved Installer Card) and be able to read and understand a firestop system design listing (i.e. UL or WHI Listed System Design).

Storage and Handling

Keep product stored in a protected covered area in its original unopened containers. Manufacturer recommends storage temperatures to between 40°-90°F(4°-32°C).

DO NOT ALLOW TO FREEZE

Product has a shelf life of one(1) year. Stock rotation program is recommended.

Transportation

Recommended transportation temperatures should be between 40°-90°F (4°-32°C).

DO NOT ALLOW TO FREEZE**First Aid**

In case of contact with eyes, flush with water and consult a physician. Skin contact, clean up thoroughly with water or soapy water. Consult a physician if eye or skin irritation develops or is persistent. SEE MSDS FOR ADDITIONAL INFORMATION.

Availability

GRABBERGARD IFC caulk is supplied in:

- 10 fl . oz. (300ml) plastic cartridges
- 29 fl . oz. (850ml) cartridges
- 20 fl . oz. (590ml) sausages
- 5 gal. (18.9L) tapered plastic pails

Coverage

Estimated product usage will vary depending on opening size and configuration. Check GRABBERGARD'S estimating charts for coverage.

Warranty

Grabber Construction Products will not accept liability for more than product refund. Any claim regarding product defect must be received in writing within 1 year from date of shipment. Grabber makes no other Warranty or Guarantee express or implied, including warranties of fitness for a particular purpose or merchantability. The seller shall assume no other liability for incidental or consequential damages arising out of the sale or use of this product.

Technical Services

For technical information and assistance regarding application information, code requirements and performance specifications:

Toll Free 1-866-237-GRAB(4722)

Web Site www.grabberman.com

Disclaimer: All technical advice, recommendations and services rendered by the seller gratis. They are based on technical data, which the seller believes to be reliable, and are intended for use by persons having the skills and know how, at their own discretion and risk. In no event will the seller be liable for any consequential damages arising out of the use of this product.



PRODUCT DATA SHEET GRABBERGARD EFC

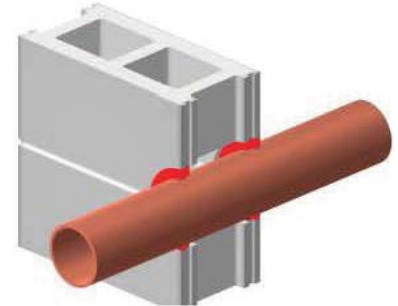
Table 1 – Physical and Chemical Properties

As Supplied

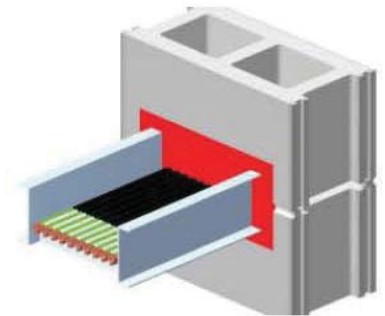
Type of Polymer	Waterborne Resin
Odor	Mild Latex
Solids Content (Wt%)	77 ± 2%
Application Temperatures	45°-90°F(7°-32°C)
Viscosity (ASTM D-2196)	560000-744000cps
Extrudability	Passed
Color - (ASTM C-834)	Rust Red
Specific Gravity - (ASTM D-1475)	1.40-1.50
Dry Time - (ASTM D-1640)	
Dry to touch @ 6mils	20-30 mins
Full Cure Time	7-21 days
(depends on thickness & environment)	
pH - (ASTM E-70)	8-9

As Cured

In Service Temperature	up to 120°F(49°C)
Moisture Absorption	< 4%
Stability	Passed
[Dimensional, Cracking, Blisters, Flexibility]	
Corrosion - (ASTM C-655)	
[for Aluminum, Copper, Steel, Galvanized Steel, Stainless Steel]	Passed
Volume Shrinkage - (ASTM C-1241)	Passed
Chemical Compatibility - (ASTM D-543)	Passed
Slump Test - (ASTM D-2202 - Modified)	Passed
Hardness - (ASTM D-2240, Shore A)	22
Freeze/Thaw - (ASTM D-2243)	Excellent
Tensile Properties - (ASTM D-2370)	
Tensile Strength	26 psi
Maximum Elongation	1400%
Corrosion - (ASTM D-5894)	Passed
Surface Burning Characteristics - (ASTM E-84)	
Flame Spread Index	< 25
Smoke Developed Index	< 50
STC Sound Transmission Loss - (ASTM 90-99)	Full Recovery



Typical Pipe Penetration



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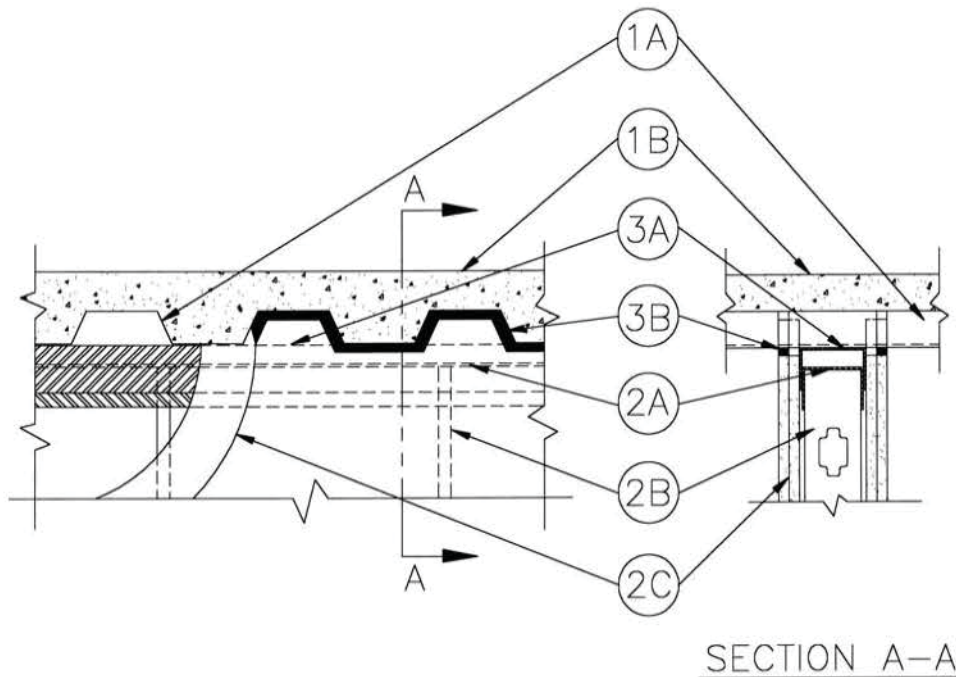


System No. HW-D-0368

Assembly Ratings 1 & 2 Hr (See Item 2)

Nominal Joint Width – 3/4 in.

Class II Movement Capabilities – 33% Compression or Extension



SECTION A-A

1. **Floor Assembly** – The fluted steel deck/concrete floor assembly shall be constructed of the materials and in the manner described in the individual Floor-Ceiling Design in the UL Fire Resistance Directory and shall include the following construction features:

- A. **Steel Floor and Form Units*** – Max 3 in. deep galv fluted units.
- B. **Concrete** – Min 2-1/2 in. thick reinforced concrete, as measured from the top plane of the floor units.

1A. **Roof Assembly (Not Shown)** – As an alternative to the floor assembly, a fire-rated fluted steel deck roof assembly may be used. The roof assembly shall be constructed of the materials and in the manner described in the individual P900 Series Roof-Ceiling Design in the UL Fire Resistance Directory. The hourly rating of roof assembly shall be equal or greater than the hourly rating of the wall assembly and shall include the following construction features:

- A. **Steel Roof Deck** – Max 3 in. deep galv steel fluted roof deck.
- B. **Roof Insulation** – Min 2-1/4 in. thick poured insulation concrete, as measured from the top plane of the floor units.
- C. **Roof Covering*** – Hot-mopped or cold-application materials compatible with insulating concrete.



2. **Wall Assembly** — The 1 or 2 hr fire rated gypsum board/steel stud wall assembly shall be constructed of the materials and in the manner described in the individual U400 - Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:

A. **Steel Floor And Ceiling Runners** — Floor and ceiling runners of wall assembly shall consist of galv steel channels sized to accommodate steel studs (Item 2B). When U-shaped deflection channel (Item 3A) is used, ceiling runner installed within the deflection channel with 1 in. gap maintained between the top of ceiling runner and top of deflection channel. When deflection channel is not used, ceiling runner is secured to valleys of steel floor units (Item 1A) with steel fasteners or by welds spaced max 24 in. OC.

A1. **Light Gauge Framing*** — Slotted Ceiling Runner — As an alternate to the ceiling runner in Item 2A, slotted ceiling runner to consist of galv steel channel with slotted flanges sized to accommodate steel studs (Item 2B). Slotted ceiling runner installed perpendicular to direction of fluted steel floor units and secured to valleys of steel fasteners spaced max 24 in. OC. When slotted ceiling runner is used, deflection channel (Item 3A) shall not be used.

METAL-LITE INC — The System

BRADY CONSTRUCTION INNOVATINS INC,
DBA SLIPTRACK SYSTEMS INC. — SLP-TRK

A2. **Light Gauge Framing*** — Clipped Ceiling Runner — As an alternate to the ceiling runner in Item 2A, 2A1, clipped ceiling runner to consist of galv steel channel with clips preformed in track flanges which positively engage the inside flange of the steel studs (Item 2B). Track sized to accommodate steel studs (Item 2B). Track flanges to be min 2-1/2 in. Clipped ceiling runner installed perpendicular to direction of fluted steel floor units and secured to valleys with steel fasteners spaced 24 in. OC. When clipped ceiling runner is used, deflection channel (Item 3A) shall not be used.

TOTAL STEEL SOLUTIONS LLC — Snap Trak

A3. **Light Gauge Framing*** — Vertical Deflection Ceiling Runner — As an alternate to the ceiling runner in Item 2A, 2A1 or 2A2, vertical deflection ceiling runner to consist of galv steel channel with slotted vertical deflection clips mechanically fastened within runner. Slotted clips, provided with step bushings, for permanent fastening of steel studs. Vertical deflection ceiling runner installed perpendicular to direction of fluted steel floor or roof deck and secured to valleys with steel fasteners spaced max 24 in. OC. When slotted ceiling runner is used, deflection channel (Item 3A) shall not be used.

THE STEEL NETWORK INC — VertTrack VTD362, VTD400, VTD600 and VTD800

B. **Studs** — Steel studs to be min 3-5/8 in. wide. Studs cut 1/2 to 3/4 in. less in length than assembly height. Studs attached to ceiling runner with sheet metal screws a min of 1/2 in. below bottom of deflection channel, when deflection channel is used. When deflection channel is not used, studs shall not be secured to ceiling runner. When slotted ceiling runner (Item 2A1) is used, steel studs secured to slotted ceiling runner with No. 8 by 1/2 in. long wafer head steel screws at mid-height of slot on each side of wall. Stud spacing not to exceed 24 in. OC.

C. **Gypsum Board*** — Gypsum board sheets to be installed to a min total thickness of 5/8 in or 1-1/4 in. on each side of the wall for a 1 or 2 hr fire rated wall, respectively. Wall to be constructed as specified in the individual Wall and Partition Design in the UL Fire Resistance Directory, except that the gypsum board is cut to fit the contour of the steel floor units with a nom 3/4 in. gap. The screws attaching the gypsum board to studs at the top of the wall shall be located 1 in. below the bottom of the deflection channel, when deflection channel is used. When deflection channel is not used, the screws attaching the gypsum board to studs at the top of the wall shall be located 1 in. below the bottom of the ceiling runner.

The hourly fire rating of the joint system is dependent on the hourly fire rating of the wall.





3. **Joint System** – Max separation between bottom of floor and top of wall is 3/4 in. The joint system is designed to accommodate a max 33 percent compression or extension from its installed width. The joint system consists of a deflection channel and a fill material, as follows:
- A. **Deflection Channel** – (Optional) – A nom 3-5/8 in. wide by min 2 in. deep min 24 ga. steel U-shaped channel. Deflection channel secured to valleys of steel floor units (Item 1A) with steel fasteners or by welds spaced max 24 in. OC. The ceiling runner (Item 2A) is installed within the deflection channel to maintain a 1 in. gap between the top of the ceiling runner and the top of the deflection channel. The ceiling runner is not fastened to the deflection channel.
 - B. **Fill Void or Cavity Material*** – Sealant – Min 5/8 in. thickness of fill material installed on each side of the wall between the top of the gypsum board and all surfaces of the steel floor units, flush with each surface of gypsum board.

GRABBER CONSTRUCTION PRODUCTS INC – GrabberGard EFC

*Bearing the UL Classification Marking



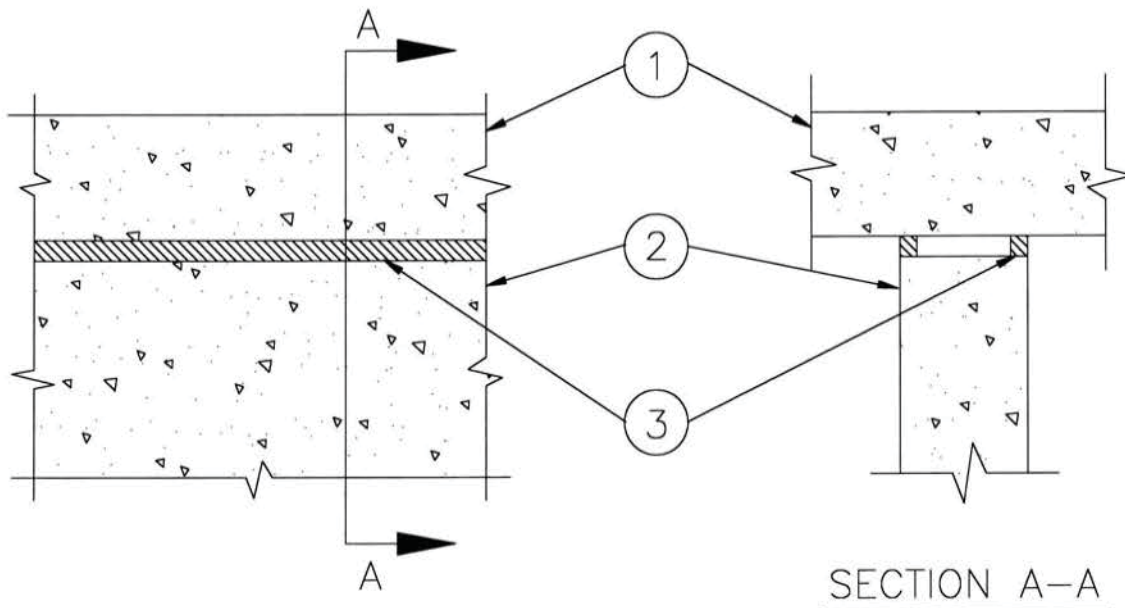


System No. HW-D-0369

Assembly Ratings – 2 Hr

Nominal Joint Width – 3/4 in.

Class II Movement Capabilities – 33% Compression or Extension



1. **Floor Assembly** – Min 4-1/2 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete.
2. **Wall Assembly** – Min 4-7/8 in. thick reinforced lightweight or normal weight (100-150 pcf) structural concrete. Wall may also be constructed of any UL Classified Concrete Blocks*.
See **Concrete Blocks (CAZT)** category in the Fire Resistance Directory for names of manufacturers.
3. **Joint System** – Max separation between bottom of floor and top of wall is 3/4 in. The joint system is designed to accommodate a max 33 percent compression or extension from its installed width. Min 5/8 in. thickness of fill material installed on each side of the wall between the top of the wall and the bottom of the floor, flush with each surface of wall.

GRABBER CONSTRUCTION PRODUCTS INC – GrabberGard EFC

*Bearing the UL Classification Marking



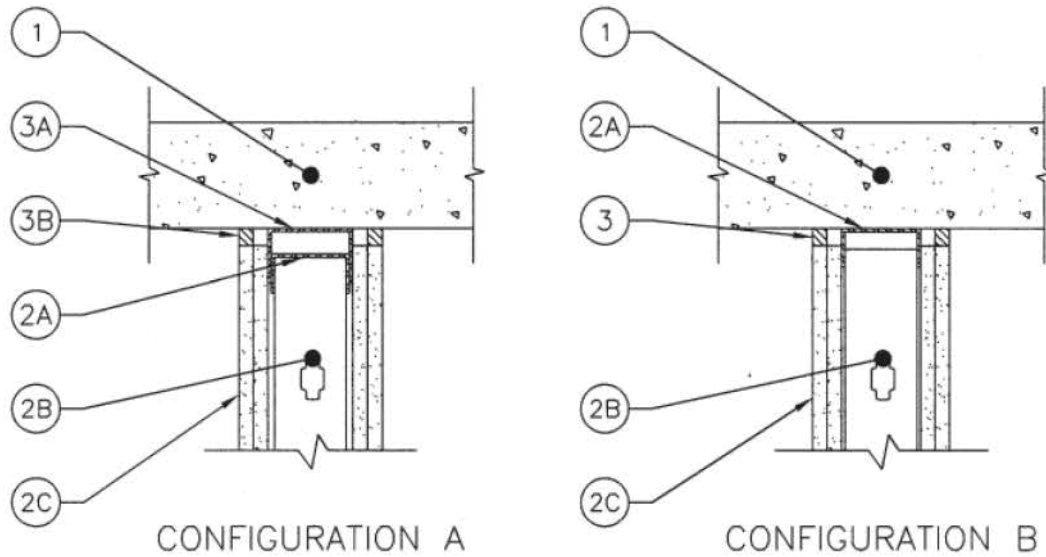


System No. HW-D-0370

Assembly Ratings – 1 & 2 Hr

Nominal Joint Width – 3/4 in.

CLASS II Movement Capabilities – 33% Compression or Extension



1. **Floor Assembly** – Min 4-1/2 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete.

CONFIGURATION A

2. **Wall Assembly** – The 1 or 2 hr fire rated gypsum wallboard/steel stud wall assembly shall be constructed of the materials and in the manner described in the individual U400 or V400 - Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:

- A. **Steel Floor and Ceiling Runners** – Floor and Ceiling runners of wall assembly shall consist of galv steel channels sized to accommodate steel studs (Item 2B). Ceiling runner to be installed within the deflection channel such that a 1 in. gap is maintained between the top of ceiling runner and top of deflection channel. Deflection channel is secured to floor with steel masonry anchors spaced a max of 24 in. OC.
- B. **Studs** – Steel studs to be min 3-5/8 in. wide. Studs cut 1/2 to 3/4 in. less in length than assembly height. Studs attached to ceiling runner with sheet metal screws a min of 1/2 in. below bottom of deflection channel. Stud spacing not to exceed 24 in. OC.
- C. **Gypsum Board*** – Gypsum board sheets to be installed to a min total thickness of 5/8 or 1-1/4 in. on each side of the wall for a 1 or 2 hr fire rated assemblies, respectively. Wall to be constructed as specified in the individual Wall and Partition Design in the UL Fire Resistance Directory, except that a nom 3/4 in. gap shall be maintained between the top of the gypsum board and the lower surface of the floor. The screws attaching the wallboard to studs at the top of the wall shall be located 1 in. below the bottom of the U-shaped deflection channel (Item 3A).

The hourly fire rating of the joint system is dependent on the hourly fire rating of the wall.





3. **Joint System** – Max separation between bottom of floor and top of wall is 3/4 in. The joint system is designed to accommodate a max 33 percent compression or extension from its installed width. The joint system consists of a deflection channel and a fill material, as follows:

- A. **Deflection Channel** – A nom 3-5/8 in. wide by min 2 in. deep min 24 gauge (or heavier) steel U-shaped channel. Deflection channel secured to floor assembly with steel fasteners, spaced max 24 in. OC. The ceiling runner (Item 2A) is installed within the deflection channel to maintain a 1 in. gap between the top of the ceiling runner and the top of the deflection channel. The ceiling runner is not fastened to the deflection channel.
- B. **Fill, Void or Cavity Material* – Sealant** – Min 5/8 in. thickness of fill material installed on each side of the wall between the top of the gypsum board and the bottom of floor, flush with each surface of wallboard.

GRABBER CONSTRUCTION PRODUCTS INC – GrabberGard EFC

CONFIGURATION B

2. **Wall Assembly** – The 1 or 2 hr fire rated gypsum wallboard/steel stud wall assembly shall be constructed of the materials and in the manner described in the individual U400 or V400 - Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:

- A. **Steel Floor and Ceiling Runners** – Floor and Ceiling runners of wall assembly shall consist of galv steel channels sized to accommodate steel studs (Item 2B). Ceiling runner is secured to floor with steel masonry anchors spaced a max of 24 in. OC.
- A1. **Light Gauge Framing* – Slotted Ceiling Runner** – As an alternate to the ceiling runner in Item 2A, slotted ceiling runner to consist of galv steel channel with slotted flanges sized to accommodate steel studs (Item 2B). Slotted ceiling runner is secured to floor with steel masonry anchors spaced max 24 in. OC.

METAL-LITE – The System

BRADY CONSTRUCTION INNOVATIONS INC,
DBA SLIPTRACK SYSTEMS, INC – SLP-TRK

- A2. **Light Gauge Framing* – Clipped Ceiling Runner** – As an alternate to the ceiling runner in Item 2A, 2A1, clipped runner to consist of galv steel channel with clips preformed in track flanges which positively engage the inside flange of the steel studs (Item 2B). Track sized to accommodate steel studs (Item 2B). Track flanges to be min 2-1/2 in. Clipped ceiling runner installed perpendicular to direction of fluted steel floor units and secured to valleys with steel fasteners spaced 24 in. OC.

TOTAL STEEL SOLUTIONS LLC – Snap Trak

- A3. **Light Gauge Framing* – Vertical Deflection Ceiling Runner** – As an alternate to the ceiling runner in Item 2A, 2A1 or 2A2, vertical deflection ceiling runner to consist of galv steel channel with slotted vertical deflection clips mechanically fastened within runner. Slotted clips, provided with step bushings, for permanent fastening of steel studs. Vertical deflection ceiling runner installed perpendicular to direction of fluted steel floor or roof deck and secured to valleys with steel fasteners spaced max 24 in. OC.

THE STEEL NETWORK INC – VertiTrack VTD362, VTD400, VTD600 and VTD800

- B. **Studs** – Steel studs to be min 3-5/8 in. wide. Studs cut 1/2 to 3/4 in. less in length than assembly height. Steel studs shall not be secured to ceiling runner when slotted ceiling runner (Item 2A1) is used, steel studs secured to slotted ceiling runner with No. 8 by 1/2 in. long wafer head steel screws at mid-height of slot on each side of wall. When vertical deflection ceiling runner (Item 2A3) is used, steel studs secured to slotted vertical deflection clips, through bushings, with steel screws at mid-height of each slot Stud spacing not to exceed 24 in. OC.





C. **Gypsum Board*** – Gypsum board sheets to be installed to a min total thickness of 5/8 or 1-1/4 in. on each side of the wall for a 1 or 2 hr fire rated assemblies, respectively. Wall to be constructed as specified in the individual Wall and Partition Design in the UL Fire Resistance Directory, except that a nom 3/4 in. gap shall be maintained between the top of the gypsum board and the lower surface of the floor. The screws attaching the gypsum board to studs at the top of the wall shall be located 1in. below the bottom of the ceiling runner (Item 2A).

The hourly fire rating of the joint system is dependent on the hourly fire rating of the wall.

3. **Fill, Void or Cavity Material*** – Sealant – Max separation between bottom of floor and top of wall is 3/4 in. The joint system is designed to accommodate a max 33 percent compression or extension from its installed width. Min 5/8 in. thickness of fill material installed on each side of the wall between the top of the gypsum board and the bottom of floor, flush with each surface of wallboard.

GRABBER CONSTRUCTION PRODUCTS INC – GrabberGard EFC

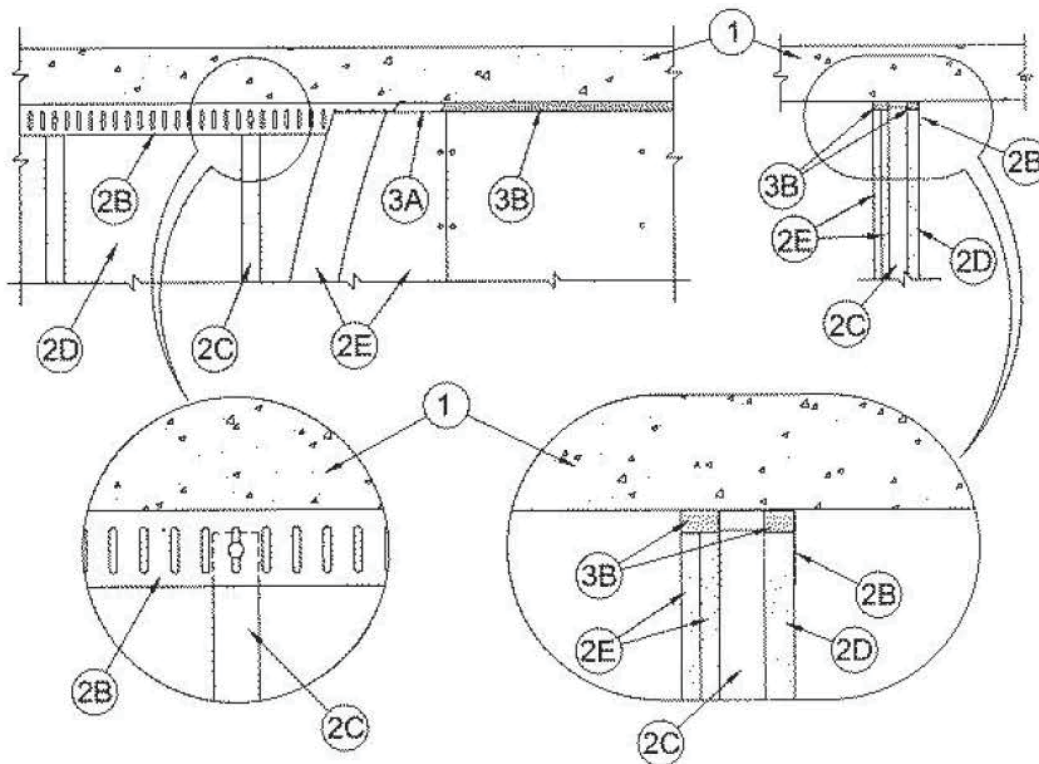
*Bearing the UL Classification Marking





System No. HW-D-0692

ANSI/UL 2079	CAN/ULC S115
Assembly Rating – 2 Hr	F Rating – 2 hr
Nominal Joint Width – 1 in.	FT Rating – 2 Hr
Class II Movement Capabilities – 25% Compression or Extension	FH Rating – 2 Hr
	FTH Rating – 2 Hr
	Nominal Joint Width – 25 mm
	Class II Movement Capabilities – 25% Compression or Extension



1. **Floor Assembly** – Min 4-1/2 in. (114 mm) thick steel-reinforced lightweight or normal weight (100-150 pcf or 1600- 2400 kg/m³) structural concrete.
2. **Shaft Wall Assembly** – With the exception of the ceiling runner, the 2 hr fire rated shaft wall assembly shall be constructed of the materials and in the manner described in System B of Design No. U415 in the UL Fire Resistance Directory. The wall shall include the following construction features:
 - A. **Floor and Wall Runners** – (Not Shown) – “J”-shaped runner, min 2-1/2 in. (64 mm) wide with unequal legs of 1 in. (25 mm) and 2 in. (51 mm), fabricated from min 24 MSG galv steel. Runners positioned with short leg toward finished side of wall. Runners attached to walls and floor with steel fasteners spaced max 24 in. (610 mm) OC. As an alternate to the “J”-shaped runner, a min 2-1/2 in. (64 mm) wide by 1 or 1-1/4 in. (25 or 32 mm) deep channel formed from min 24 MSG galv steel may be used for the floor runner.
 - B. **Light Gauge Framing*** – Slotted Ceiling Track – Slotted ceiling track shall consist of galv steel channels with slotted flanges. Slotted ceiling track sized to accommodate steel “C-H” studs (Items 2C). Attached to concrete at ceiling with steel fasteners spaced max 12 in. (305 mm) OC.





BRADY CONSTRUCTION INNOVATIONS INC, DBA SLIPTRACK SYSTEMS, INC – SLP-TRK

- C. **Steel Studs** – “C-H”-shaped steel studs to be min 2-1/2 in. (64 mm) wide and formed of min 24 MSG galv steel. As an alternate, nom 6 in. (152 mm) wide “E”-shaped steel studs installed back-to-back and secured together with steel screws spaced max 12 in. (305 mm) OC may be used. “E”-shaped studs to be formed of min 24 MSG galv steel. Studs cut 1/2 to 3/4 in. (13 to 19 mm) less in length than assembly height with bottom nesting in and resting on floor runner and with top nesting in slotted ceiling track. Studs spaced 24 in. (610 mm) OC. After installation of gypsum board liner panels (Item 2D), studs secured to flange of floor runner on finished side of wall only with No. 6 by 1/2 in. (13 mm) long self-drilling, self-tapping steel screws. Studs secured to flange of slotted ceiling track on finished side of wall only with No. 8 by 1/2 in. (13 mm) long self-drilling, self-tapping wafer head steel screws at slot midheight.
- D. **Gypsum Board*** – 1 in. (25 mm) thick by 24 in. (610 mm) wide gypsum board liner panels as specified in Design No. U415. Panels cut 1 in. (25 mm) less in length than floor to ceiling height. Vertical edges inserted in “H”-shaped section of “C-H” studs. Free edge of end panels attached to long leg of “J” runner (Item 2A) with 1-5/8 in. (41 mm) long Type S steel screws spaced max 12 in. (305 mm) OC.
- E. **Gypsum Board*** – Gypsum board sheets, 1/2 or 5/8 in. (13 or 15 mm) thick, applied vertically or horizontally in two layers on finished side of wall as specified in System B of Design No. U415. A max 1 in. (25 mm) gap shall be maintained between the top of the gypsum board and the bottom surface of the concrete floor. The screws attaching the gypsum board layers to the C-H studs shall be located 1 in. (25 mm) below the bottom of the slotted ceiling track (Item 2C). No gypsum board attachment screws are to penetrate the slotted ceiling track.

3. **Joint System** – Max separation between bottom of floor and top of liner panel (Item 2D) and between bottom of floor and top of gypsum board sheets (Item 2E) at time of installation of joint system is 1 in. (25 mm). The joint system is designed to accommodate a maximum 25 percent compression or extension from its installed width. The joint system consists of bond breaker tape and sealant, as follows:

- A. **Bond Breaker Tape** – Polyethylene tape supplied in rolls. Tape applied to flanges of slotted ceiling track (Item 2D) to prevent bonding of the sealant at points other than the top and bottom of the linear gap.
- B. **Fill, Void or Cavity Material* – Sealant** – Min 1 in. (25 mm) depth of sealant to be installed to fill linear gap between top of gypsum board liner panel (Item 2D) and top inside surface of slotted ceiling track (Item 2B) prior to installation of gypsum board sheets on finished side of wall. Min 1 in. (25 mm) depth of sealant to be installed to fill linear gap between top of gypsum board sheets (Item 2E) and bottom of concrete floor.

GRABBER CONSTRUCTION PRODUCTS INC – GrabberGard IFC Sealant or GrabberGard EFC Sealant

*Bearing the UL Classification Marking



MATERIAL SAFETY DATA SHEET

MSDS Name: GrabberGard EFC

Revision Date: August 30, 2012

1. Product and Company Identification

Product Name: GrabberGard EFC
 Product Code: GGIFC10, GGIFC 20, GGIFC29, GGIFC5
 Supplier: Grabber Construction Products
 205 Mason Circle
 Concord, CA 94520
 Medical Emergency: Passive Fire Protection Partners, 1412 Derwent Way, Delta, BC V3M 6H9, (800) 810-1788
 Product Information: 800-877-TURN (Concord, California) 8:00 a.m. - 4:00 p.m. PST

2. Composition/Information on Ingredients

Ingredient	CAS Number	% (wt.)	LC50 (rat)	LD50 (rat)	TLV	STEL
Calcium Carbonate	1317-65-3	< 50	N/A	N/A	N/A	N/E
Vinyl Acetate Polymers	Not disclosed	< 40	N/A	N/A	N/A	N/A
Water	7732-18-5	<25	N/A	N/A	N/E	N/E
Auxiliary Chemicals	N/A	< 5	N/A	20 - 34 g/Kg	50 ppm	N/A
Color Pigment	1309-37-1	< 0.5	N/A	N/A	N/A	N/A

3. Physical Properties

Appearance / Physical State	Red, viscous compound	Specific Gravity (@25°C)	1.40 – 1.50
Odour	Mild odour	Evaporation Rate	< 1
Odour Threshold	Slightly aromatic odour	Boiling Point (°C)	> 100
Vapour Pressure (mm Hg)	18.51880	Freezing Point (°C)	0
Vapour Density (Air = 1)	of Water vapor	pH	8.0 – 9.0
Coefficient of H2O/Oil Distrib	Not determined	VOC contents (g/L)	32.5

4. Fire and Explosion Data

Flammability	No
Means of Extinction	Normal fire fighting procedures should be followed to avoid inhalation of smokes and gases.
Special Fire-fighting Procedures	Firefighters should wear the usual protective gear use self-contained breathing apparatus.
Auto-ignition Temperature (°C)	N/A
Flash Point (°C) / Method	N/A
Upper Flammable Limit (% Volume)	N/A
Lower Flammable Limit (% Volume)	N/A
Sensitivity to Mechanical Impact	No
Sensitivity to Static Discharge	No
Hazardous Combustion Products	Carbon Monoxide, Carbon Dioxide, aliphatic hydrocarbons and hydrocarbon oxidation products

5. Reactivity Data

Stability	Stable at normal condition
Condition of Reactivity	Contact with incompatible substances
Incompatible Materials	Reacts with mineral acids and alkalis
Hazardous Decomposition Products	Dried films forced to burn will produce: Carbon Monoxide, Carbon Dioxide, and hydrocarbon oxidation products.

MATERIAL SAFETY DATA SHEET

MSDS Name: GrabberGard EFC

Revision Date: August 30, 2012

6. Toxicological Properties

Routes of Exposure	√ Skin contact	√ Skin absorption	√ Eye contact	√ Inhalation	√ Ingestion
Effects of Acute Exposure to Product	Skin and eye irritation may occur after contact with the product.				
Effects of Chronic Exposure to Product	None known				
Exposure Limits	None known				
Irritancy of Product	Slight on skin and eyes				
Sensitization of Product	None known				
Carcinogenicity	None known				
Teratogenicity	None known				
Reproductive Toxicity	None known				

7. First Aid Measures

Eye Contact	Flush with large quantities of water gently for 15 minutes and get medical attention.
Skin Contact	Wash with soap and water.
Inhalation	Remove affected person away from source of exposure to fresh air and get medical attention IMMEDIATELY
Ingestion	Get medical attention IMMEDIATELY.

8. Preventive Measures

Engineering Controls	Standard industrial ventilation is recommended.
Personal Protective Equipment	Chemical safety glasses and gloves were required during normal use and handling.
Eye Protection (Specify)	Face shield or chemical goggles were recommended.
Skin Protection (Specify)	Chemical resistant nitrile, neoprene or rubber gloves were recommended if contact to the product directly.
Respiratory (Specify)	Respiratory protection is not normally required. Use NIOSH/MSHA approved respirator if condition warrant.
Other	

9. Precautions for Safe Handling and Use

Handling Procedure and Equipment	N/A
Storage Requirement	Material should be kept in a closed container and stored between 4 – 32°C (40 – 90°F)
Spill, Leak or Releases	Wear protective equipment during cleanup.
Waste Disposal	Care should be taken to ensure that the material or it's containers and disposed of in an approved facility, state, provincial and local regulations.
Special Shipping Instructions	DO NOT FREEZE

10. Regulation Information

WHMIS	Not controlled
HMIS	Health 1, Flammability 0, Reactivity 0
TDG Regulation	Not classified as a hazardous material.
TSCA	All ingredients of this product are on the inventory list.
DSL	All ingredients of this product are on the list.

MATERIAL SAFETY DATA SHEET

MSDS Name: GrabberGard EFC

Revision Date: August 30, 2012

11. Preparation Information	
Prepared by:	Chemical Laboratory, Passive Fire Protection Partners
Preparation Date:	11 March 2003
Telephone:	(604) 515-1788
Reason for Revision:	New updating, rev 002, April 27, 2007 Logo updating, rev 003, June 18, 2007 Spelling mistake on Section of Preventive Measures, rev 004, April 9, 2008 Formulation updating, rev005, January 16, 2009 Spelling mistake on Section of Precaution for Safe Handling and Use, rev 006, March 1, 2010 Review, rev007, August 30, 2012
Revision Date:	August 30, 2012
Abbreviations Used:	% (wt.) = Weight Percentage ACGIH = American Conference of Governmental Industrial Hygienists CAS Number = Chemical Abstracts Series Number DSL = Domestic Substance List in Canada H = Hours HMIS = Hazardous Material Identification System IARC = International Agency for Research on Cancer LC50 = Lethal Concentration, 50% LD50 = Lethal Dose, 50% MSHA = Mine Safety and Health Administration N/A = Not Applicable or Not Available N/E = None Established NIOSH = The National Institute for Occupational Safety and Health NTP = National Toxicology Program OSHA = The Occupational Safety and Administration STEL = Short Term Exposure Limit TDG = Transportation of Dangerous Goods TLV = Threshold Limit Value TSCA = Toxic Substance Control Act in US VOC = Volatile Organic Compounds WHMIS = Workplace Hazardous Material Identification System
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CAULKING INSTRUCTIONS - GRABBERGARD EFC

Equipment and Caulking Installations Instructions Using Caulking Applicator Guns



There are different types of caulking applicator guns available. The recommended procedure when using the different styles will be described in Sections A and B. Section C will then describe the recommended procedures to follow to install the caulk and finish the job.

Section A – Applying Caulk in Plastic and Cardboard Fiber Foil Wrapped Cartridges

There are variety of applicator caulking guns available to do firestopping. We recommend using a smooth rod style rather than the less expensive ratchet rod type. When dispensing caulk from a 29 ounce-size cartridge, we recommend a rod type gun with at least a 12:1 thrust ratio. The higher thrust ratio means less hand fatigue since firestopping caulks are usually high viscous caulking. The higher thrust ratio will also help when the product becomes stiffer in the colder temperatures. (12:1 ration generates approximately 300 pound thrust)

For manual single component cartridge applicator guns.



Select the correct size manual drive frame-style cartridge gun for either the 10-ounce (300ml) or the larger 29-ounce (850ml) plastic or cardboard fiber foil wrapped tube type



Using a utility knife cut off the end of the plastic tip/nozzle to the desired opening size. The cut can be either straight across (90°) or angled (45°). Cutting too small of an opening will restrict the flow of material and a smaller bead size will result. The smaller the opening the higher the trigger action (pressure) required to move the material out of the tube.

On the 29 fl. oz. tubes, insert either a screwdriver or other pointed utensil into the plastic nozzle to puncture the membrane; which will allow the caulk material to flow.

CAULKING INSTRUCTIONS - GRABBERGARD EFC



Pull back the push rod of the frame-style caulking gun to its full extension.



Drop the cartridge into the frame insuring that the plastic nozzle of the cartridge is place through the opening in the end plate.



Repeatedly pull the trigger of the applicator guns until the push rod is advanced to the end of the cartridge. The caulk will begin to flow when some resistance is felt.



When the desired amount of material has been advanced, stop triggering; release the pressure by pressing the lever (tab) located at the back of the handle with your thumb. This causes the push rod to slip back stopping the flow of material.

REFER TO SECTION C TO COMPLETE THE INSTALLATION PROCEDURE.

CAULKING INSTRUCTIONS - GRABBERGARD EFC

Section B- Applying Caulk with Refillable Bulk Loading Applicator Gun



The caulking to be used is shipped in 5-gallon (18.9 liter) plastic tapered pails.



Advance the plunger and push the rod down to the end of the barrel. To begin the loading process, remove the front cap containing the nozzle.



With a utility knife, cut an opening in the plastic nozzle (cut can be straight across (90°) or angled (45°)).



Coat the threads at the end of the barrel with a solvent (oil) or water to prevent the accumulation of material.



Immerse the open end of the barrel into the material to a depth of approximately 1-inch. Move the immersed gun slightly around so the material will adhere and form an air seal.

CAULKING INSTRUCTIONS - GRABBERGARD EFC



Hold the barrel steady, grip the T-pull and slowly pull the push rod back drawing the material into the barrel. Pulling the rod back to quickly may result in air pockets and an incomplete fill.

Remove the gun from the pail of material and scrape off the excess amount that has accumulated on the barrel.

Replace the front cap and nozzle.



To stop the flow of product, stop triggering and depress the pressure and release tab on the handle.

Now you are ready to install the material into the openings and joints.

REFER TO SECTION C TO COMPLETE THE INSTALLATION PROCEDURE.

Section C – Installing Firestop Caulk

General Information

All firestopping installations must be performed in compliance with a tested and listed firestop system design. The testing laboratories like Underwriters Laboratories (UL) or Intertek (Warnock Hersey) publish these listings.

For the appropriate listing, consult the manufacturer's literature or the testing laboratories Fire Protection Directories and/ or their web sites.

The manufacturer recommends an individual who has been properly trained in the correct procedures should perform all firestop installations. The individual must be able to read and understand a tested firestop listing design.

The applicator should have the following materials and equipment to correctly and safely install firestop caulking.

- Safety Glasses
- Gloves
- Utility (box) knife
- Stainless Steel Spatula
- Cleaning rags
- Plastic spray water bottle (quart/liter) with finger pump trigger/nozzle

Areas to be firestopped should be clean, free from: water, excessive dirt, dust, debris and grease. For the best results, the ideal atmospheric temperatures and environment would be:

- Dry, 60°-75°F (15°C -24°C) & R.H. 50 %.

CAULKING INSTRUCTIONS - GRABBERGARD EFC

When the damming or fire insulation material is required, the following information should be considered before commencing.

- Backer rod used as a damming or support material should be installed into the opening in a thickness and compressed sufficiently as to not dislodge and fall out under normal building movement. Wrap the backer rod completely around the penetration(s) and recess it to accommodate the required amount of firestop caulk.
- Mineral wool when required, as an insulation material, it should be installed into the opening compressed to a thickness as to not dislodge nor fall out under normal building movement. The mineral wool, usually 4 pcf, should be installed to the compression required by the firestop listing. The orientation of the mineral wool is also very important and maybe the difference of the system being in compliance or not. For construction joints or through penetration in floor (horizontal) rated assemblies, the mineral wool or similar fibrous material should be installed with the lamination in a vertical orientation assemblies. The opposite is the rule of joints and through penetrations in wall (vertical) assemblies. Here the laminations should be placed in a horizontal orientation. Installing the mineral wool in these different lamination directions allows the material to be compressed to the density required for the fire rating and building movement.
- Do not install mineral wool that is or has become wet i.e. exposure to water, rain, or snow.

Water base caulks adhere to some construction materials better than others. Applying a light mist of water to these surfaces can in some instances, help the bonding process. Mineral wool, is one of these materials, especially when it is in a vertical orientation.

Tooling the installed material can be done in several ways:

- Dry tooling: After the material is put in place, using a spatula or other tool that has not been wetted with water, smooth it out.
- Wet tooling: After the material has been put in place, using a spatula or other tool that has been wetted with water, smooth it out.
- Wet tooling: After the material has been installed, lightly mist the material with water. Use a plastic water spray bottle, turn the nozzle to a mist spray orifice, hold the bottle approximately 10-12 inches (255-305mm) from the area. **DO NOT APPLY WATER TO THE MATERIAL IN A CONCENTRATED JET SPRAY.** This will apply too much water, causing the material to dilute and run out.

CAULKING INSTRUCTIONS - GRABBERGARD EFC

Caulking Penetrations

Install the correct amount of caulk material into the opening (annular space) around the service penetration to the depth/thickness required. Make sure that caulking is in intimate contact with the substrate and the penetrating item. Once the caulk is in place, tool the material with a tooling utensil (spatula) to a smooth finish. This will push the installed material into areas not covered in the initial caulking procedure. It will also help to ensure a better bond with mating construction materials.

Caulking Construction Joints

Some construction joints do not require damming material or mineral wool to be used to affect a firestop system. When fillercaulk material is the only component required, the installation must be installed in accordance with the listing being used. This usually requires the filler material to be installed into the gap/joint. Once the caulking has been trowelled or gunned in place, the installed material should be tooled into a smooth finish. Work the material to ensure no voids and air holes are left. This is particularly important when caulking to fireproofing materials. Cured fireproofing is very porous and the caulking must be tooled to it to ensure a tight seal and a secure mating surface system, refer to the procedures described above for the proper installation before applying the filler caulking material.

Note: All installation procedures of firestop caulk materials outlined in the proceeding information are **water-based compounds**.

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Phone: 770-813-1332

GRABBER Jacksonville
Jacksonville, FL
Phone: 904-739-2760

GRABBER Northwest
Portland, OR
Phone: 503-467-5001

GRABBER Tampa
Tampa, FL
Phone: 813-249-2281

GRABBER California
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Phone: 513-874-9027

GRABBER Utah
Murray, UT
Phone: 801-266-4151

GRABBER Frederick
Frederick, MD 21703-7300
Phone: 301-371-0701

GRABBER Midwest
Maumee, OH
Phone: 419-794-8212

GRABBER Orlando
Orlando, FL
Phone: 407-297-7278

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Chantilly, VA
Phone: 703-631-8770

GRABBER Ft. Myers
Ft. Myers, FL
Phone: 239-278-1888

GRABBER Missouri
Kansas City, MO
Phone: 816-931-8816

GRABBER San Diego
San Diego, CA
Phone: 858-292-6022

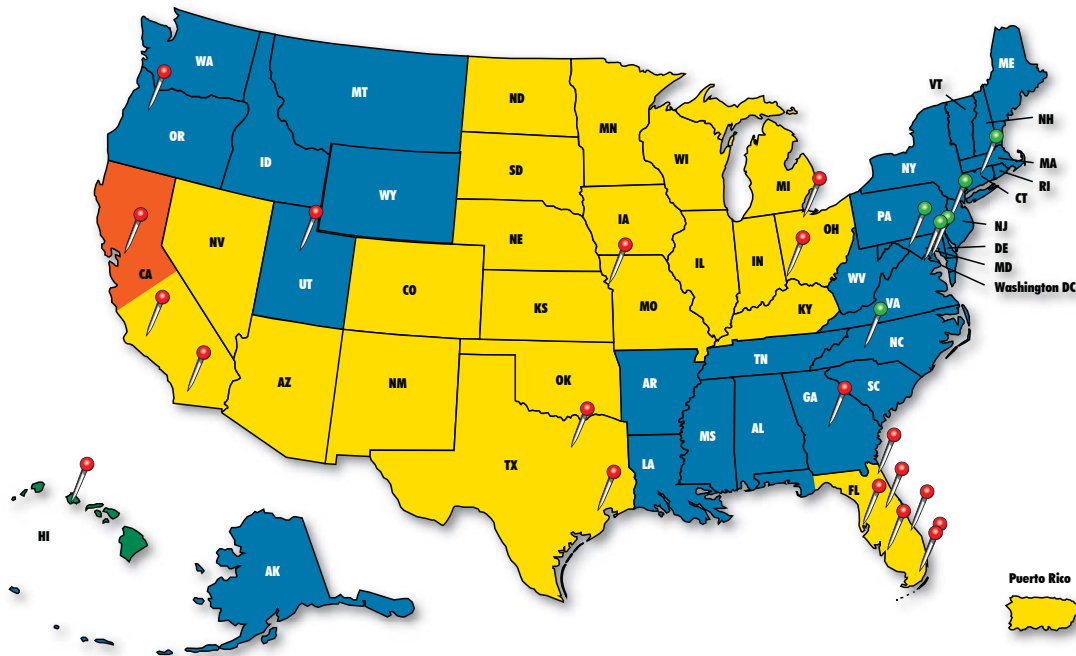
Grabber/Scorpion Fasteners
East Windsor, CT
Phone: 860-623-3600

GRABBER Houston
Houston, TX
Phone: 713-545-3918

GRABBER Northeast
Pennsauken, NJ
Phone: 856-662-2525

GRABBER Southeast
Pompano Beach, FL
Phone: 954-971-4730

Grabber Branch Locations



International Division
Phone: 925.687.6606

Home Centers
Phone: 800.606.6006

U.S. North Division
Phone: 800-241-3161

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Phone: 800-925-0320

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**Drywall Screws
Metal Framing Screws
Concrete Anchors
Pneumatic Nails**



**SuperDrive
Screw Guns
Chop Saws
Lasers**



**Subfloor Adhesives
Drywall Adhesives
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Fire Stopping Caulks**



**NO-COAT® Stick Products
NO-COAT® ULTRAFLEX
HYDROTRIM®
Drywall Tape
Finishing Tools**

Fasten it

Grabber has a full line of fasteners for just about any application. From drywall screws to heavy gauge framing screws Grabber has what you need. Grabber invented the drywall screw and changed an entire industry. For the past 40 years Grabber has been the name you can trust for professional grade fasteners.

Drive it

Grabber's SuperDrive tool is designed to make driving screws faster and more accurate. Along with SuperDrive, Grabber offers many other tools that make your work easier including chop saws, routers, lasers and more.

Caulk it

Grabber offers a complete line of caulks including sound control sealants, subfloor adhesives, drywall adhesives, insulation foam and more. Grabber also offers EFC and IFC fire stopping caulks and sealants.

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Grabber has everything you need for finishing your drywall projects. From fiberglass mesh tape and spark perforated drywall tape to the innovative No-Coat® structural drywall system, Grabber has what you need to do the job right.

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The professional's first choice for over 40 years, Grabber premium quality screws are built for performance. Sharper threads mean a better driving experience so Grabber changes thread dies more frequently. Tight recesses mean screws are less likely to cam-out and bit tips will last longer so Grabber changes recess dies more frequently. Consistent heat treating means screw heads will be less likely to pop off, so Grabber heat treats fewer screws at a time ensuring more even heat treatment. These are small things most people don't notice, but they are also small things that make the difference between average fasteners and professional grade fasteners.

Grabber is an international distributor of premium fasteners and fastening systems for wood, metal, and drywall applications in the commercial and residential construction markets. Grabber is home to the Deckmaster® Hidden Fastening System, the patented LOX® Drive System, and the SuperDrive Auto-Feed Fastening System. Grabber also distributes a wide range of proprietary tools and accessories, various equipment, and building materials to the construction industry.

Grabber screws and drywall nails are ICC ES (International Code Council Evaluation Service) evaluated, and engineered to meet or exceed the specifications for use, as prescribed in UBC 1997, IBC 2006, IRC 2006, IBC 2009, and IRC 2009. ASTM reports, approvals, shear, pullout and other technical information is available at www.grabberman.com

Grabber screws and nails are produced in an ISO 9001 and ISO 14001 approved and certified manufacturing environments. Grabber also supports a complete line of US manufactured construction fasteners that meet "Buy American" and the "American Reinvestment and Recovery Act" requirements. GrabberGard® exterior grade coated fasteners are rated for use in ACQ, pressure and fire treated lumber.



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CONSTRUCTION PRODUCTS

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