# Super Firetemp™

***Electric Cable Tray Installation***

## Guide Specification and Installation Instructions

### Part 1 – General

1.01 Description of System

A. This fireproofing system shall be a complete system of fireproofing materials supplied as specified by Johns Manville.

B. This system shall be designated for application on steel or aluminum cable trays.

1.02 Quality Assurance

A. Supplier Qualifications: The Super Firetemp system as supplied by Johns Manville is approved for use on the project.

B. Applicator Qualifications: Applicators bidding on this work represent that they are fully apprised of Johns Manville Super Firetemp products and installation procedures.

1.03 Submittals

A. Product Data: Copies of Johns Manville Super Firetemp Application Data and Recommended Guide Specification.

B. Samples: Samples of Johns Manville Super Firetemp, Super Calstik and other applicable materials as requested.

1.04 Product Delivery, Storage and Handling

A. Materials shall be delivered in packaged lots; clearly marked with Johns Manville's name, brand and type of material.

B. Materials shall be stored in a clean, dry warehouse with careful handling to avoid damage.

1.05 Job Conditions

A. Environmental Conditions: When installing Johns Manville Super Firetemp, conditions must be above freezing to allow the Super Calstik Glue to set.

B. Ventilation: When Johns Manville Super Firetemp is saw-cut in the field, workers must follow personal protection as indicated in the product warning label or Material Safety Data Sheet (MSDS).

C. Coordination: Fireproofing must be coordinated with other construction to avoid retrofits that would interfere with the integrity of the finished fireproofing job. At the same time, the fireproofing should be applied as late as possible to minimize the possibility of incidental damage to the finished system.

1.06 Codes

A. Install all Johns Manville Super Firetemp in strict accordance with all published, applicable regulations by local, state or federal agencies that may have jurisdiction.

### Part 2 – Products

2.01 Johns Manville Super Firetemp

A. Guide Specification: Shall be Johns Manville Super Firetemp, a press-molded xonotlite calcium silicate board possessing such strength and resiliency as to be installable without damage. The thickness shall be specified to meet the fire rating requirement of the project, as recommended below. If intended for exterior use or where water resistance is required, Johns Manville Super Firetemp must be protected with an approved system.

Ratings (Minutes to Electrical Failure)

| | E 119 | UL 1709 (Hi-Rise) |
|---|---|---|
| 1" (25 mm) | 30 | 15 |
| 1.5" (38 mm) | 45 | 30 |

B. Typical Average Properties:

| | Super Firetemp M |
|---|---|
| Density, pcf (kg/m$^3$) | 28 (449) |
| Compressive Strength @ 10% deformation, psi (kPa) | 900 (6206) |

C. Positive Protection: Johns Manville Super Firetemp offers "positive" protection because the thickness is fixed at the manufacturing level under rigid quality control.

D. Easy Application

D.1 May be field-installed using ordinary tools: hammer and nails, automatic nailer, drywall screws and power screwdriver. Screws are the preferred method of attachment.

D.2 May be field-cut using a circular saw equipped with a carbide-tipped blade or a saber saw equipped with a metal cutting blade. For minimum on-site effort, precut in a shop. Field cuts with a circular saw should be made by using a "clamped-in-place" straightedge for the saw to follow.

E. Hazardous Warning

E.1 For the latest health and safety information for this product, please refer to the Johns Manville Material Safety Data Sheet (MSDS) No. 2034-1.0, or contact the Johns Manville Product Information Center at 1-800-654-3103.

E.2 Contains no asbestos.

2.02 Miscellaneous Materials:

A. Drywall screws (Length = 2 x Super Firetemp M thickness); Johns Manville Super Calstik and metal banding (½" [13 mm] wide with retaining clamps).

# Super Firetemp™

***Electric Cable Tray Installation***

## Part 3 – Execution

3.01 Inspection

A. Verify that the cable trays to be fireproofed are as represented in the design criteria.

B. Verify that all cable trays to be fireproofed have been properly installed.

3.02 Board Installation

A. Cut boards for the sides of the tray, the height of the tray plus three board thicknesses, plus ½" (13 mm).

B. Cut boards for the bottom of the tray, the width of the tray (including connecting bolts) plus ½" (13 mm) on each side.

C. Cut boards for the top of the tray, the width of the bottom piece, plus two board thicknesses.

D. Cut attachment strips the width of the tray and a minimum of 3" (76 mm) wide.

E. Secure the attachment strips to the top and bottom of the tray using ½" (13 mm) metal banding. The banding is drawn tight using a banding tool and secured with a retaining clamp at the side of the tray.

F. Position attachment strips approximately 24" (610 mm) on centers; they are used to back up all bottom butt joints. The strips overlap each bottom piece of the butt joint by a minimum of 1½" (38 mm).

G. Attach the bottom sections to the attachment strips using five staggered screws for the mid-span strips and three screws on each piece of the butt joint.

H. Attach the side pieces to the bottom pieces using screws on 8" (203 mm) centers and 1½" (38 mm) from the butt ends. The butt ends are buttered with Super Calstik. The sides must be installed square and level to allow the top pieces to fit squarely with no gaps. The butt joints between adjacent bottom, side and top pieces should be positioned at least 6" (152 mm) away from one another.

I. Attach the top pieces to the sides using screws on 8" (203 mm) centers and 1½" (38 mm) from the butt ends. The butt ends are buttered with Super Calstik except at access panels.

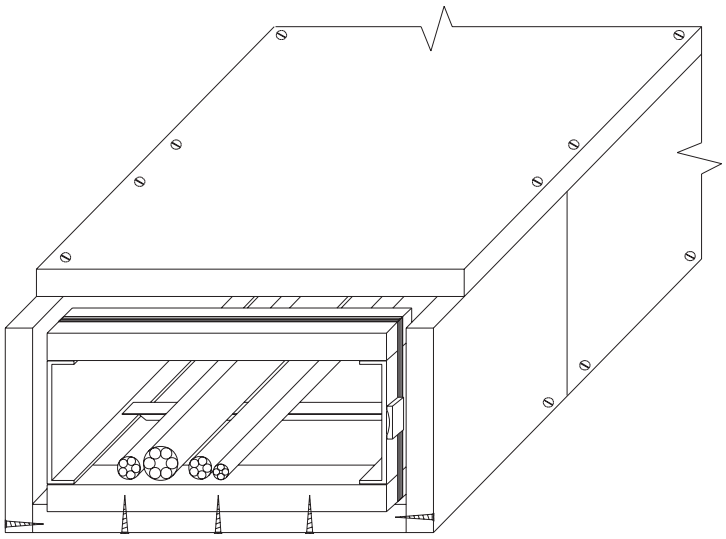
J. Access panel butt joints are backed up with strips of Super Firetemp of the same thickness as the assembly and extending across the full interior dimension of the assembly. The strips overlap the butt ends by 1½" (38 mm) and are secured to the permanent top piece by drywall screws. The access cover is held in place by drywall screws 8" (203 mm) on center.

For best results, predrill undersize holes through the cover and into the sideboard, followed by enlarging the holes in the cover for clearance on the maximum O.D. of the screws. The undersize holes, mentioned above, should be the diameter of the screw at the base of the thread. If the attachment holes become worn after several removals of the access cover, new holes must be made.

K. If Johns Manville Super Firetemp is installed in outdoor conditions where water resistance is required, Johns Manville Super Firetemp must be protected with an approved system.

# Super Firetemp™

***Electric Cable Tray Installation***



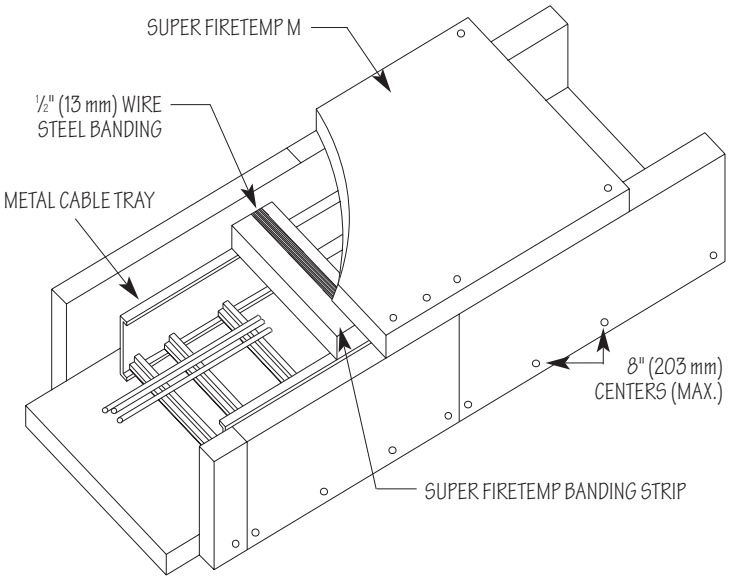
| SUPER FIRETEMP | RATING (MIN.) E 119 | UL 1709 |
|---|---|---|
| 1.0" (25 mm) | 30 | 15 |
| 1.5" (38 mm) | 45 | 30 |

**Johns Manville**

TYPICAL INSTALLATION
ELECTRIC CABLE TRAY FIRE PROTECTION

**DATE** 3/98

**DRAWING NO.** ECT1




NOTES:

1. BANDING STRIPS ARE POSITIONED EVERY 24" (610 mm).
2. ALL BUTT JOINTS ON BOTTOM BOARD MUST BE COVERED BY A BANDING STRIP.
3. SCREWS ARE 8" (203 mm) O.C., AND 1½" (38 mm) FROM BUTT JOINTS.
4. SEAL ALL BOTTOM AND SIDE JOINTS WITH SUPER CALSTIK GLUE.

**Johns Manville**

TYPICAL INSTALLATION
ELECTRIC CABLE TRAY FIRE PROTECTION

**DATE** 3/98

**DRAWING NO.** ECT2

# Super Firetemp™

***Electric Cable Tray Installation***

**Note:** For technical information and assistance regarding application information, code approvals and performance specifications, call **1-800-872-0338.** If this piece is more than one year old, please contact Johns Manville for the current information.

**For Order Placement**


1110 16 Road
Fruita, CO 81521
(970) 525-4226
(800) 525-4226
Fax: (970) 858-9641

International
Denver, Colorado
USA
(303) 978-2980
Fax: (303) 978-4661


Johns Manville


**Johns Manville Insulations**
Commercial/Industrial Division
P.O. Box 5108
Denver, CO 80217-5108
Internet: http://www.jm.com


The physical and chemical properties of Super Firetemp™ represent typical, average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice. Any references to numerical flame spread or smoke developed ratings are not intended to reflect hazards presented by these or any other materials under actual fire conditions. Check with the Sales Office nearest you for current information. **All Johns Manville products are sold subject to Johns Manville's Limited Warranty and Limitation of Remedy. For a copy of the Johns Manville Limited Warranty and Limitation of Remedy, call the 800 number below.** For information on other Johns Manville thermal insulations and systems, call **1-800-654-3103**. To access automated fax-on-demand service in the United States and Canada, simply call **1-888-INSULFX** (1-888-467-8539) from a fax or phone.


FPS-103 9/98 (New)

Printed in USA