

# FM-245V

## SPECIFICATIONS

## BASE SHEET ATTACHMENT TO HIGHER DENSITY LIGHTWEIGHT INSULATING CONCRETE

### DESCRIPTION

Two legged fastener for attachment of base sheet to lightweight insulating concrete roofdecks. Designed specifically for applications that require maximum withdrawal resistance. Special "V" notched legs readily cut through the toughest of base sheets without deformation or bunching of the sheet.

### COMPOSITION

**Fastener:** Precision formed from galvanized (G-90) coated steel. Exposed surfaces are further protected with a special elastomeric polymer coating to prevent corrosion. 2.4" x 1.2" rectangular rib reinforced head. Two rectangular dual gripping legs, 1.2" long.

### TECHNICAL DATA

**Approvals:** FM-245V fasteners maintain Factory Mutual and Underwriters Lab Approvals.

**Fastening Pattern:** Consult Factory Mutual, Underwriters Lab, or Miami-Dade requirements for recommended patterns in normal, exposed, and hurricane areas.

**Field Testing:** On-site withdrawal testing should always be performed to evaluate the ability of the roofing substrate to satisfactorily accept and retain fasteners. Such testing may alter fastener selection and modify applicable fastening patterns.

**Note:** FM-245V fasteners must be used in conjunction with higher strength base sheet (listed on back) that provide the pull-over performance necessary to match the additional withdrawal resistance the FM-245V delivers.

### INSTALLATION

**Equipment:** Always use the ES Magnetic Driver to assure proper fastener installation.

**Method:** Drive FM-245V as an ordinary nail. DO NOT TOE. Seat head flush with roofing surface (see illustration).

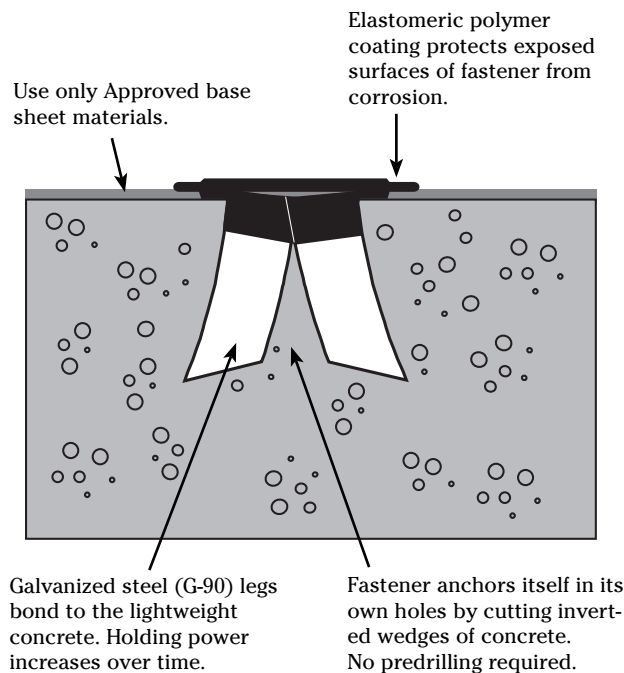
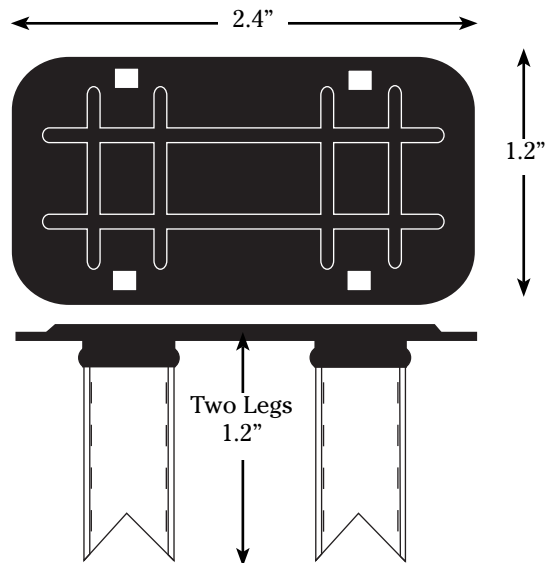
**Operation:** As FM-245V is driven, dual legs diverge and cut plugs of deck material that wedge and anchor the FM-245V in its own holes. No predrilling is required.

**Availability:** FM-245V is a patented product manufactured only by ES Products, Inc. distributed by leading roofing material and equipment wholesalers throughout the United States.

**Packaging:** 1,000 FM-245V fasteners per carton. Shrink wrapped and palletized. Gross weight: 42 lbs.

### PROUDLY MADE IN THE U.S.A.

**Warranty:** ES Products, Inc. warrants its products for one year from date of sale against defective workmanship and material, and its liability therefore shall be limited to replacing defective products reported defective during the warranty period. ES Products is not responsible for any failure attributable to improper use or installation in any manner inconsistent with manufacturer's specifications. THIS WARRANTY IS IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, ALL OF WHICH ARE EXPRESSLY DISCLAIMED INCLUDING ANY WARRANTY OF MERCHANTABILITY AND ANY WARRANTY OF FITNESS FOR PARTICULAR USE. This warranty provides specific legal rights and remedies that may vary from state to state.



# ESPRODUCTS

280 Franklin Street • Bristol, RI 02809  
800-493-ROOF (7663) • esproducts.com

# BASE SHEET ATTACHMENT TO HIGHER DENSITY LIGHTWEIGHT INSULATING CONCRETE

## USING THE FM-245V

Fastener density and spacing vary depending on applicable uplift requirements. Local codes, governing approval bodies, membrane manufacturers, and individual roofdeck manufacturers all may have specific requirements that need to be addressed prior to beginning any roofing project. The following illustrates a typical Factory Mutual Approved fastening pattern widely accepted for use by membrane and roofdeck manufacturers.

### FASTENING GUIDE CLASS I-90 WINDSTORM CLASSIFICATION

An FMRC Approved base sheet is secured to an FMRC Approved lightweight insulating concrete roofdeck as outlined in the current edition of the FMRC Approval Guide and/or RoofNav.

The base sheet is secured in the field of the roof with FM-245V fasteners installed 7.5" on center in 4" wide side laps and 7.5" on center, staggered in 2 rows, equally spaced, between the base sheet side laps.

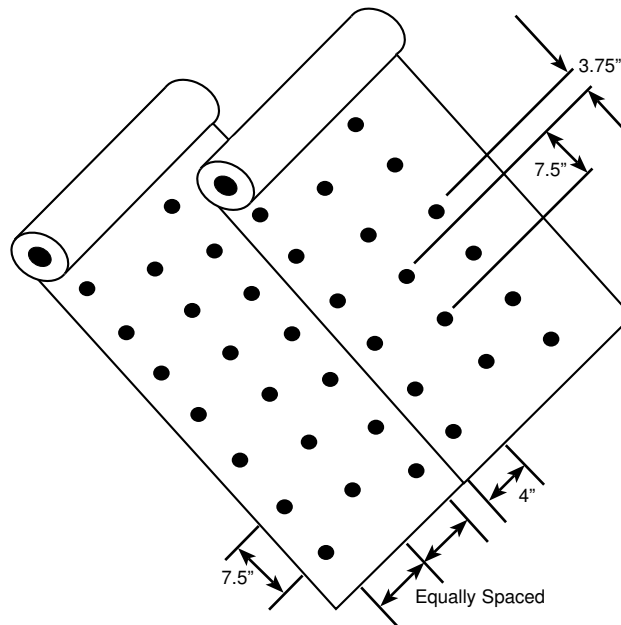
When fastening with this pattern, expect to use approximately 165 fasteners per square (100 ft.<sup>2</sup>) when installing meter-wide material.

Always determine if the specific base sheet specified is compatible for use with the FM-245V. Many sheets lack the pull-through resistance necessary to fully maximize the withdrawal resistance of the FM-245V. Always consult Factory Mutual or [esproducts.com](http://esproducts.com) for specifics.

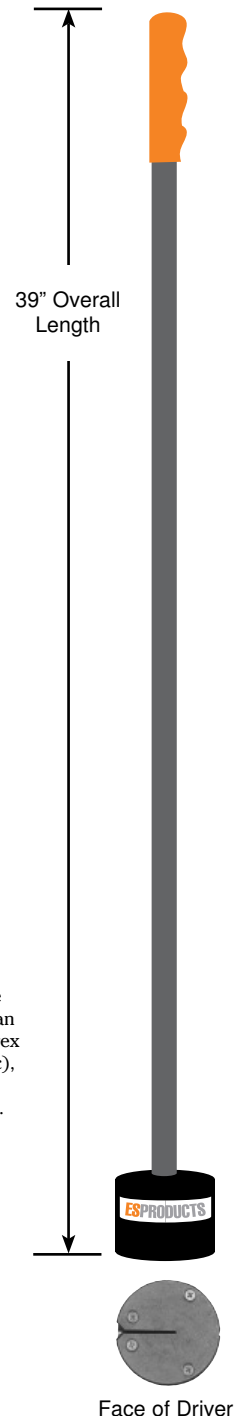
### IMPORTANT:

Prior to roofing, on-site withdrawal testing should always be performed to evaluate the ability of the roofing substrate to satisfactorily accept and retain fasteners. Such testing may alter fastening selection and modify applicable fastening patterns.

Typical high strength base sheets compatible for use with FM-245V fasteners include: Modified Arrowbase (Black Warrior Roofing), Flex-I-Glas FR Base (CertainTeed Corp), Poly SMS Base (CertainTeed Corp), APP 160 (Firestone Building Products Co), SBS Base (Firestone Building Products Co), SBS Torch Base (Firestone Building Products Co), SBS Poly Torch (Firestone Building Products Co), SBS Poly Base (Firestone Building Products Co), SBS Premium Base (Firestone Building Products Co), SBS Smooth Torch (Firestone Building Products Co), HPR Tribase (Garland Co Inc), Multi-Ply Glass CL (W P Hickman System mc), Pika-Ply Hi-Tech 60 (W P Hickman Systems Inc), Performance Ply (W P Hickman Systems Inc), #605 Panoply SBS Base Sheet (Malarkey Roofing), Deribase (Performance Roof Systems mc), Elastobase (Polyglass USA Inc), Irex 30 (Siplast Inc), Irex HT (Siplast Inc), Elastophene 180 Sanded (Soprema Inc), Soprafix (Soprema Inc), Versa Base (Tamko Roofing Products Inc), BURmastic Composite Ply (Tremco Inc), BURmastic Composite Ply Premium (Tremco Inc), BURmastic Supreme Composite Ply (Tremco Inc), Modified Base 190P (US Intec a Div of Building Materials Corp of America), Flex Base 60 (US Intec a Div of Building Materials Corp of America).



Magnetic Driver



# ESPRODUCTS

280 Franklin Street • Bristol, RI 02809  
800-493-ROOF (7663) • [esproducts.com](http://esproducts.com)