FM-75
SPECIFICATIONS

BASE SHEET TO HIGHER DENSITY LIGHTWEIGHT INSULATING CONCRETE, NVS CONCRETE, AND VARIOUS GYPSUM ROOFDECKS

COMPOSITION

Fastener: Precision formed from galvanized (G-90) coated steel. Exposed surfaces are further protected with a special elastomeric polymer coating to prevent corrosion. Rectangular dual gripping legs, 1.2" long.

Disk: Integrally locked to fastener. Precision formed from Galvalume (AZ-55) coated steel to prevent corrosion. Rib reinforced cap, 2.7" diameter.

TECHNICAL DATA

Approvals: FM-75 fasteners maintain Factory Mutual, Underwriters Lab, and Miami-Dade County 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.

INSTALLATION

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

Method: Drive FM-75 as an ordinary nail. DO NOT TOE. Seat cap flush with roofing surface (see illustration).
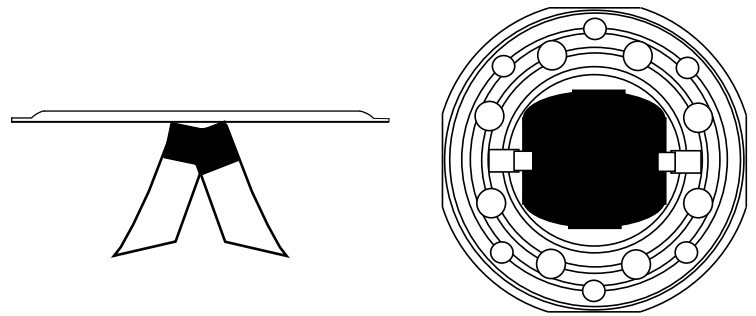
Operation: As FM-75 is driven, dual legs diverge and cut a plug of deck material which wedges and anchors the FM-75 in its own hole. No predrilling is required.

Availability: FM-75 is a proprietary product manufactured only by ES Products, Inc. distributed by leading roofing material and equipment wholesalers throughout the United States.

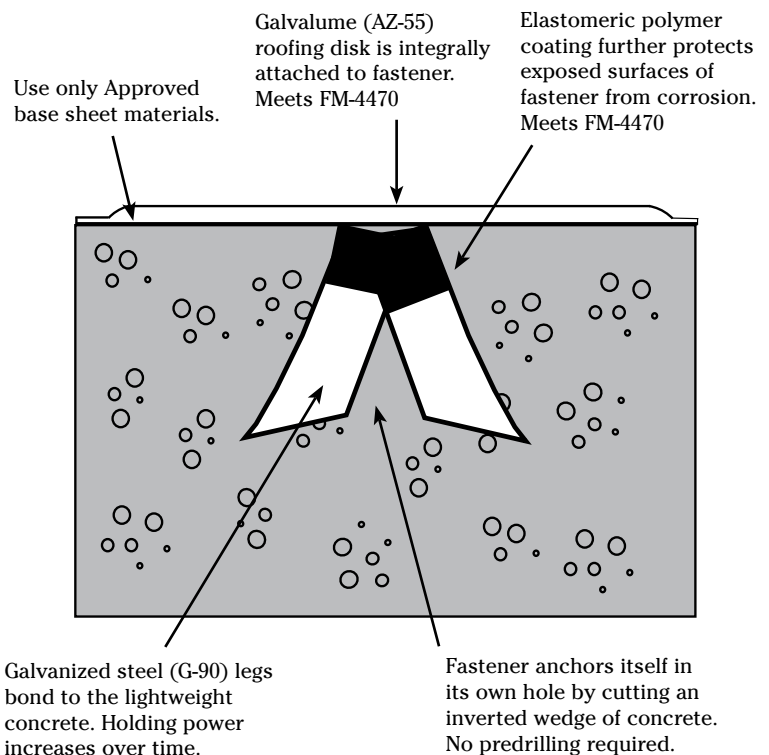**Packaging:** 1,000 FM-75 fasteners per carton. Shrink wrapped and palletized. Gross weight: 35 lbs.

PROUDLY MADE IN THE U.S.A.

Length: 1.2 inches

Diameter: 2.7 inches

Use only Approved base sheet materials.

Galvalume (AZ-55) roofing disk is integrally attached to fastener. Meets FM-4470

Elastomeric polymer coating further protects exposed surfaces of fastener from corrosion. Meets FM-4470

Galvanized steel (G-90) legs bond to the lightweight concrete. Holding power increases over time.

Fastener anchors itself in its own hole by cutting an inverted wedge of concrete. No predrilling required.

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-75

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
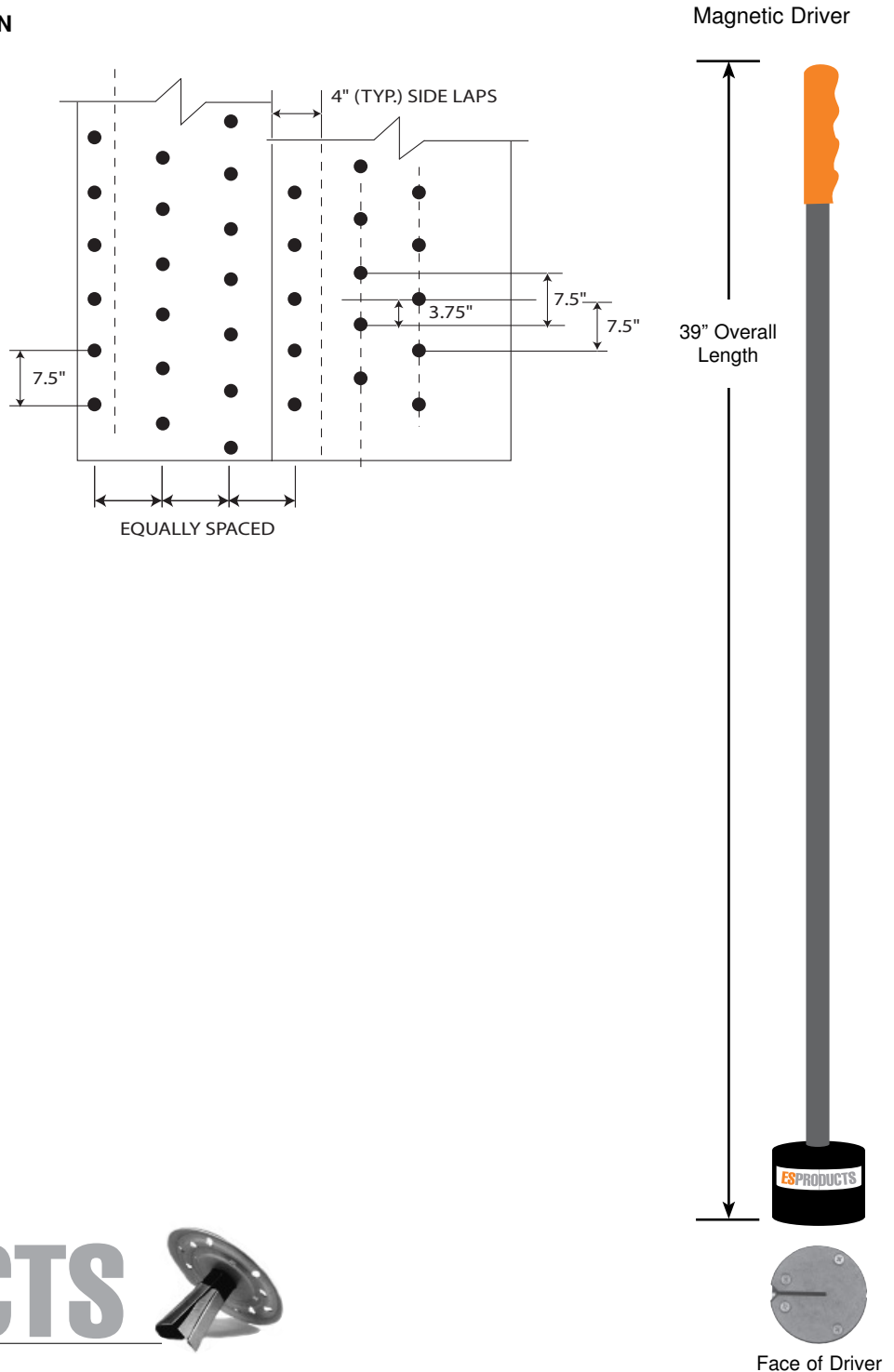
CLASS I-90 WINDSTORM CLASSIFICATION

An FMRC Approved base sheet is secured to an FMRC Approved light-weight 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-75 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 meter-wide material with this pattern, expect to use approximately 165 fasteners per square (100 ft.^{2}).

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.

Magnetic Driver

4" (TYP.) SIDE LAPS

3.75"

7.5"

7.5"

7.5"

EQUALLY SPACED

39" Overall Length

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Face of Driver