

**1. PRODUCT NAME**

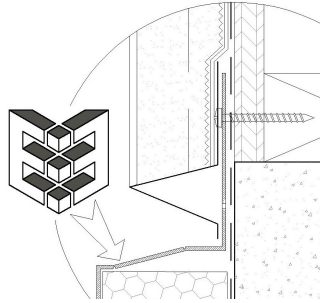
**EnergyFlash® by EnergyEdge®**

At-Grade Insulation Protection Flashing Material

**2. MANUFACTURER**

**EnergyEdge, LLC**

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**3. PRODUCT DESCRIPTION**

Non-corrosive, PVC protection for exposed 2" rigid insulation materials where below grade insulation extends to meet wall construction and/or exterior finishing systems.

**4. BASIC USE**

Protects rigid board insulation products from degradation due to exposure to outdoor elements and maintenance impacts to preserve the long-term performance of thermal isolation of the otherwise exposed slab and foundation perimeters between grade and wall or finish materials at floor level.

Its primary role is to protect the at-grade rigid board insulation thermal break as required by ASHRAE 90.1 and related building energy codes. However, the use of this product also provides multiple options and advantages in transitioning construction and finishing systems.

**5. APPLICATIONS**

Product is multi-functional and enhances the performance of both commercial and residential projects including:

- Slab and wall foundations in new construction
- Retrofit and Renovation projects
- Post-Applied Projects (e.g. post tensioned slabs)
- Specialty wall assemblies (e.g. ICF Block)

**6. COMPATIBILITY**

Product is compatible with any type of 2" insulation board, reflective, closed cell or other 2" extruded insulation products.

**7. EXTERIOR FINISHES**

Product is solid core "concrete" grey UV protected exterior grade PVC. Surface color or texture may be applied on site.

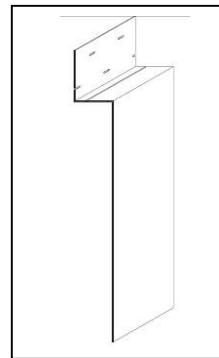
**8. PHYSICAL / CHEMICAL PROPERTIES**

Material is resistant to UV exposure, water, snow, fertilizers, insects, rodents, lawn chemicals and remains freeze resistance.

**9. FLASHING SIZES**

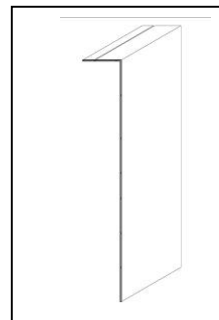
Flashing members are designed to protect 13-3/4" of vertical rigid board insulation. The horizontal top return is 2-3/16". The EF217 includes a vertical nailing flange that extends an additional 3" and includes two levels of slotted attachment holes that allow for installation variations and movement

of PVC material (much the same as vinyl siding). All members are 10' long.



**EF217 Flashing Member**

Exterior Vertical Cover: 13-3/4"  
Top Return: 2-3/16"  
Vertical Nailing Flange: 3"  
Feature: Provides for multiple installation option for offsetting flashing edge to coordinate with exterior finishes.



**EF214 Flashing Member**

Exterior Vertical Cover: 13-3/4"  
Top Return: 2" (nominal)  
Feature: Provides for retrofit applications where product must fit below existing finishes. Also, ideal for ICF block walls where product can be fit into "kerf" to separate wall finishes from grade.

**10. APPLICABLE STANDARDS**

American Society for Testing & Materials (ASTM)

- ASTM D635 Rate of Burning and/or Extent and Time of Burning of Plastics
- ASTM D696 Coefficient of Linear Thermal Expansion of Plastics between -30 C and 30 C with a Vitreous Silica Dilatometer.
- ASTM D1929 Flash Point 850 degrees
- ASTM E84 - Surface Burning Characteristics of Building Materials

**11. PREPARATION**

Insulation Application: Use only 2" rigid insulation approved for below grade applications and that it is securely fastened to concrete substrate. Insure that horizontal elevation of the EF material creates a positive flow away from building and is below finished slab elevation. EnergyFlash is not intended as a moisture barrier.

**12. SITE CONDITIONS**

Avoid placement *EnergyFlash* members under extreme weather conditions. PVC material in extreme heat or cold exhibits unstable behavior and should be avoided. When cutting, using PAF fasteners, bending, drilling or other impact operations, heat material as necessary to lessen brittle characteristic prior to proceeding in cold weather.

**13. CUTTING MATERIAL**

Material may be cut using a table, chop or radial arm saw equipped with a new blade to produce a clean form edge. Important: Product will be exposed to visual inspection upon final review. Use of best practices and craftsmanship during installation is required.

EF217 and EF214 materials have horizontal “snap grooves” to facilitate straight break points for reducing overall elevation coverage of face materials. This feature also allows for the easy creation of a 11-3/4” flat “extension” member to increase coverage if necessary.

**14. SUBSTRATE PREPARATION**

Insulation material below *EnergyFlash* material should be installed with top edge leveled to desired insulation level. EF217 and EF214 materials have relieve grooves to material can be installed with slight slope to insure positive drainage. Reference manufacturers details.

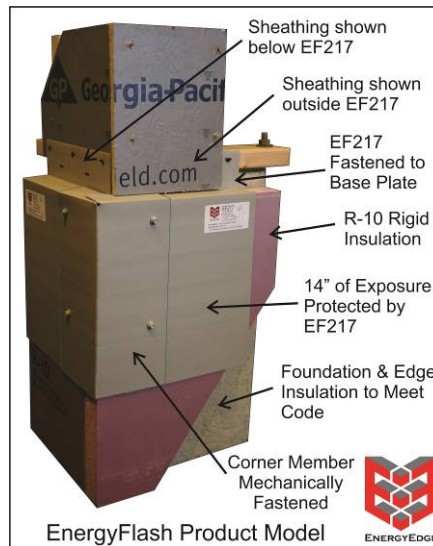
**15. CORNER CONNECTIONS & JOINTS**

Prefabricated corner members are available as an ordering option and instructions are available on our website: [www.EEForm.com](http://www.EEForm.com) for field fabrication.

Typical joints are formed by overlapping material. We recommend at least 1-1/2” overlap. Self-tapping and matching colored screws are also available for order.

**16. INSTALLATION POTENTIALS AND OPTIONS**

The EF217 and EF214 products are the second generation of the original EF210 product. The practical experience EnergyEdge gained from the original product and now applied in the design of these new product profiles embody the thoughts and inputs of a wide collection of sources.



This flashing material is designed to allow for the creative spirit of the design and building industries, its craftsmanship and ingenuity. The advantages of a PVC product in contact with the many variables of ground contact, moisture, temperature extremes and abuse, make it an ideal material for at-grade applications. We believe it will fit the need of not only protecting insulation at the exposed perimeters of buildings but improve the performance of the many building systems and finishes that must interface and terminate at that juncture. Please contact us with your questions and visit our website for suggested details and consideration of our EnergyEdge materials for your projects.

**17. STORAGE / PROTECTION**

Protect panels prior to installation from abuse, damage, water, sun exposure and contamination. Do not paint, coat or seal the product prior to installation.

**18. MAINTENANCE / REPAIRS**

Final material requires no maintenance. Contractor shall inform subsequent trades to be aware of *EnergyFlash* at exposed perimeters. Protect slab edges where materials will be exposed to heavy traffic, point loads or impacts. When backfilling, do not allow grading tractors, heavy equipment, or materials to come in contact with flashing material. When necessary, repair materials by simply overlaying an additional layer of flashing material.

**19. AVAILABILITY**

Distributed through a national network of distribution

**20. LEED® CONTRIBUTIONS**

**LEEDv3**

**Material Resource (MR Credits)**

- Credit 1 – Building Reuse
- Credit 2 – Construction Waste Management
- Credit 3 – Resource Reuse
- Credit 4 – Recycled Content
- Credit 5 – Local/ Regional Materials (Kansas | Indiana)

**Energy & Atmosphere**

- Prerequisite 2 - Minimum Energy Performance
- Credit 1 – Optimize Energy Performance

**Environmental Quality**

- Credit – 7 Thermal Comfort – Design

**LEEDv4**

- Prerequisite: Minimum Energy Performance
- Credit: Optimized Energy Performance

