

# DURO-GUARD® EPS FAN FOLD

**Description:**

Duro-Guard® EPS Fan Fold is manufactured with a rigid expanded polystyrene (EPS) core and wrapped with tough facers which create a durable water resistant board. EPS is a closed cell foam which is highly resistant to heat flow and moisture penetration. The film facers are compatible with Duro-Last roof membrane.

- Use as a recover board over:
  - Granulated or smooth cap sheets.
  - Smooth built-up roof systems.
  - Gravel surfaced built-up roofs.
  - Single-Ply membranes.
- Inert, non-nutritive, and highly stable.
- Contains no CFCs, HCFCs, HFCs or formaldehyde.
- Superior moisture resistance.
- Type VIII, 1.25 pcf, per ASTM C 578.
- Refer to Table 1 for physical properties.

**Recommended Uses:**

- Mechanically attached Duro-Last roof systems.

**Underwriters Laboratories Inc.:**

- Refer to Duro-Last's UL Listings (TGFU.R10128) for assembly details ([www.ul.com](http://www.ul.com)).

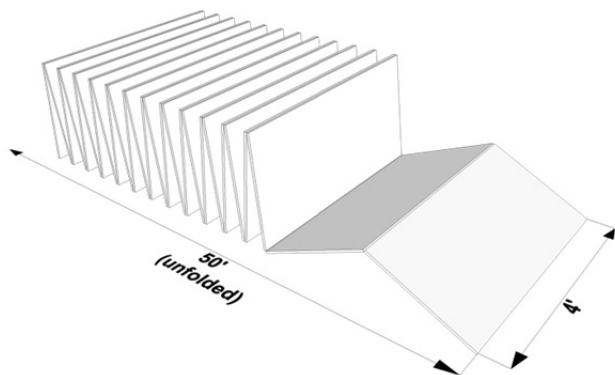


Figure 2. Duro-Guard EPS Fan Fold Dimensions

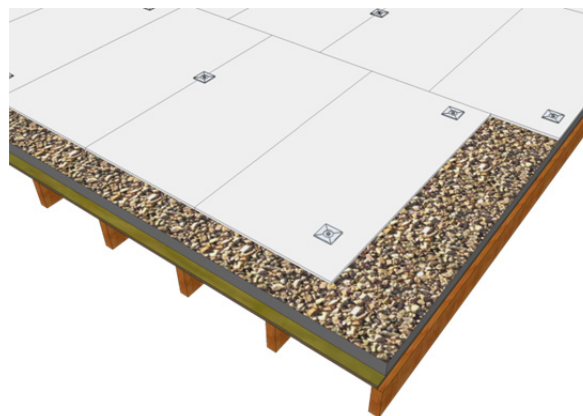


Figure 1. Duro-Guard EPS Fan Fold

TABLE 1. TYPICAL PHYSICAL PROPERTIES		
Property	Test Method	Type VIII
Density (nominal)	ASTM C 303	1.25 pcf
R-Value (per inch) @75°F	ASTM C 518 or C 177	1.9
Compressive Strength (10% deformation)	ASTM D 1621	13 psi
Flexural Strength	ASTM C 203	≥ 30 psi
Water Vapor Permeance	ASTM E 96	< 1.0 perm
Water Absorption	ASTM C 272	< 1.0%
Flame Spread	ASTM E 84	20
Smoke Developed	ASTM E 84	150 - 300

**Board Dimensions:**

- 1/2 inch (13 mm) Thick.
- 4 ft. x 50 ft. (1.2 m x 15.2 m).
- 200 square-foot (18.5 m<sup>2</sup>) Coverage.

**Installation:**

- Duro-Guard EPS Fan Fold may be used directly under the Duro-Last membrane. Care should be taken to ensure that “bare” EPS is never in direct contact with the membrane. Refer to the appropriate Duro-Last specification for slip sheet and cover board requirements.
- Panels must be kept dry before, during and after installation. Install only as much insulation as can be covered the same day with completed roofing.
- Butt panel edges together and stagger joints of adjacent panels.
- Boards must be neatly fitted to roof deck and around penetrations with no gaps greater than ¼ inch.
- Refer to the appropriate Duro-Last roof system specification and detail drawings for deck preparation, acceptable gravel size for overlays and other requirements.
- Precautions must be taken to ensure that new concrete decks have fully hydrated and do not continue to release moisture.

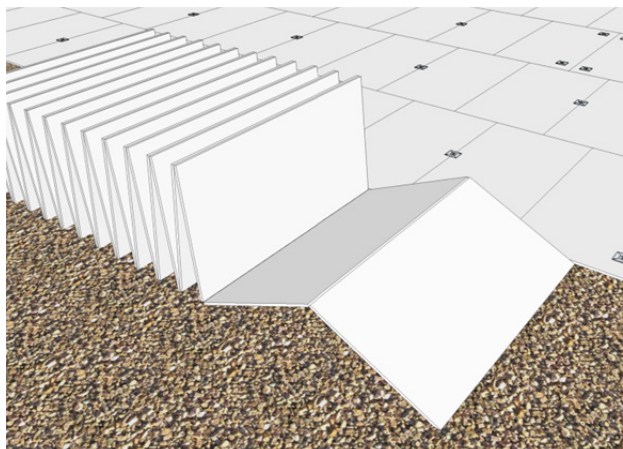


Figure 3. Duro-Guard EPS Fan Fold As Recover Board

**Panel Attachment:**

*Mechanical Attachment*

- Refer to Duro-Last Mechanically Attached System Specifications and detail drawing #1030 for approved fasteners and fastening patterns.
- Use fasteners and plates supplied by or approved by Duro-Last, Inc.

**Storage:**

- Insulation must be protected from open flame and kept dry at all times.
- Factory applied packaging is intended only for protection during transit. Slit or remove the packaging to prevent accumulation of condensation.
- Store elevated (at least 3”) and completely covered with a weatherproof covering such as a tarpaulin.
- Do not use panels which are wet or damaged.

**Limitations:**

- Duro-Last, Inc. will not be responsible or liable for any defects or problems related to building or roof design by others, to deficiencies in construction, to dangerous conditions on the job site, or to improper storage, handling or installation by others.

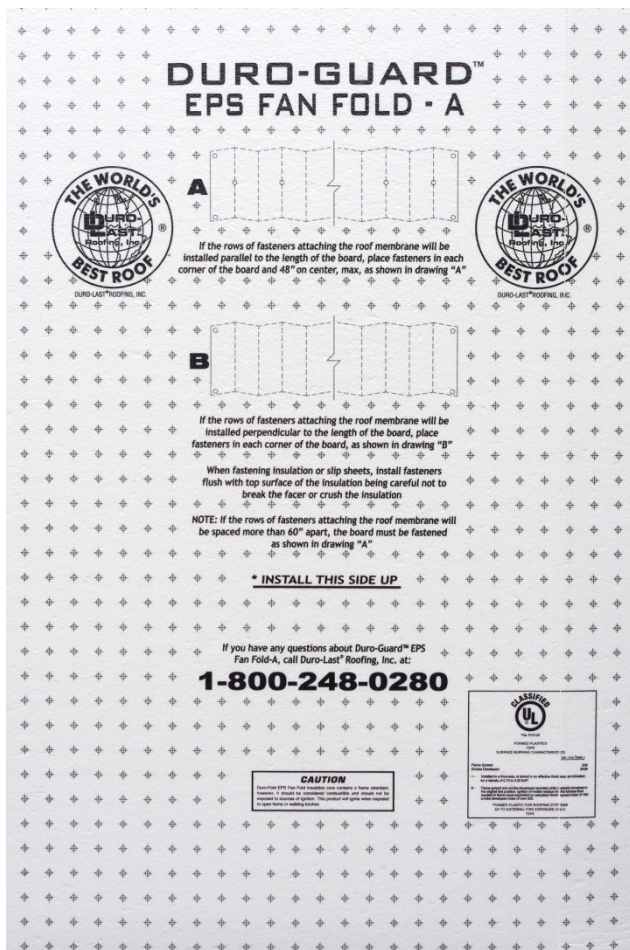


Figure 4. Partial view of facer on top surface