

TECHNICAL SERVICES BULLETIN

**TO: ELEVATE™ APPLICATORS
ELEVATE DISTRIBUTORS
ELEVATE SALES REPRESENTATIVES
SEPTEMBER 2023**

RE: EPS FANFOLD SHEATHING IN WARRANTED ELEVATE ROOFING SYSTEMS

To better meet the needs of our customers, Holcim Solutions and Products US, LLC will allow the use of EPS Fanfold sheathing (“Fanfold”) in qualifying warranted Elevate roofing systems. Fanfold must be Type VIII with a minimum thickness of 1/2" (12.7 mm) and must meet the following minimum physical properties:

Minimum Physical Properties		
Property	ASTM Test Method	Type VIII
Compressive Strength	D1621	13 psi (90 kPa)
Density (Nominal)	C 303	1.25 pcf (20 kg/m ³)
Moisture Vapor Transmission	E96	<1 perm (<57.5 ng/(Pa·s·m ²))
Water Absorption	C272	<1% by volume

Fanfold is allowed for Mechanically Attached applications of UltraPly™ TPO, Elevate PVC and Elevate PVC KEE membrane systems. Existing gravel surfaced roofs should be spud/scraped clean and vacuumed. Existing single-ply membranes should be cut into 10 ft x 10 ft grids before attaching Fanfold with Elevate #12 insulation fasteners or All-Purpose Fasteners and Elevate Insulation Fastening Plates. IsoFast™ #12 Belted Fasteners and Insulation Plates or AP AccuTrac® Kits may also be used to attach Fanfold.

Attachment Rates for EPS Fanfold Sheathing (Per 32 Square Feet)

Approved Systems	Deck Type and Minimum Fastening Rate	
	Steel	Plywood/OSB/Wood Plank
Mechanically Attached TPO, PVC and PVC KEE (60-mil Min)	5	5

NOTES:

- InvisiWeld™ applications are not allowed when Fanfold is the immediate substrate.
- Damaged or wet components of the existing roofing system must be replaced.
- Fanfold must have a suitable facer. “Bare” EPS must never come in direct contact with Elevate PVC or PVC KEE membranes, or with residual asphalt.
- Gray and Tan membranes should not be installed over existing asphalt and EPDM systems when Fanfold is used in lieu of an Elevate insulation and/or cover board.
- Adjacent Fanfold sheets should be laid parallel and staggered every 2.0' (0.6 m).
- For projects requiring performance validation, switch to an appropriate Elevate insulation and/or cover board.
- Check with local building code authorities for requirements for partial tear-offs and recovers.
- The maximum Red Shield™ Warranty term for systems including Fanfold is 20 years. Wind speeds up to 72 MPH may be approved based on project characteristics. Hail and Cut & Puncture Protection are not available when Fanfold is used in lieu of an Elevate insulation and/or cover board.

For more information, refer to the Elevate Attachment Guide and Design Guides available in the Documents section of www.holcimelevate.com or contact your Holcim Regional Technical Coordinator at 800-428-4442.

Sincerely,
Charles Allen
National Technical Manager
Thermoplastic Systems