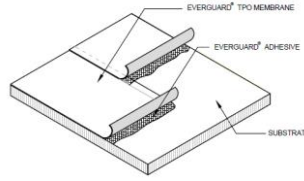




TPO FA-103
Fully Adhered
Up to 35 year NDL



COMPONENT	TYPE	REQUIRED	ATTACHMENT	RATE OF APPLICATION
DECK	Steel (Min 22 gauge), Structural Concrete, Wood Plank, Plywood, OSB, Lightweight Insulating Concrete, Gypsum, and Cementitious Wood Fiber	Acceptable decks vary by system, see specification manual	Per Code	N/A
INSULATION	EnergyGuard™ Polyiso Roof Insulation ASTM C-1289	One (1) or more layers	Mechanically Attached or Adhered See Insulation Table below	See attached table
INSULATION OPTIONAL LAYER	EnergyGuard™ Polyiso Roof Insulation, Tapered Polyiso Roof Insulation, HD Polyiso Cover Board ASTM C-1289 Dens Deck® Prime™ Roof Board ASTM C-1177 Securock® Gypsum Fiber Roof Board ASTM C-1278	One (1) layer of any of the options listed	Mechanically Attached or Adhered See Insulation Table below	See attached table
INSULATION	EnergyGuard™ HD Polyiso Cover Board ASTM C-1289 Dens Deck® Prime™ Roof Board ASTM C-1177 Securock® Gypsum Fiber Roof Board ASTM C-1278	One (1) layer of any of the options listed	Adhered See Insulation Table below	See attached table
SINGLE PLY MEMBRANE	EverGuard Extreme® TPO 80 mil ASTM D-6878	One (1) ply	Fully Adhered See Membrane Table below	See table below
GUARANTEE	WeatherStopper® EverGuard® Diamond Pledge™ NDL Roof Guarantee	Up to Thirty-Five (35) years		GUARANTEE FEE APPLICABLE

INSULATION ATTACHMENT	
Mechanically Attached	Refer to EverGuard® Specification Manual or Insulation Attachment Table on page 2
OlyBond 500™ Adhesive, OlyBond 500™ Equipment-Free Canister System, OlyBond 500™ Bag In The Box Winter Grade, GAF® 2-Part Roofing Adhesive, GAF® LRF-M Adhesive, TPO LRF Adhesive Low Temp	Applied in ribbons spaced max. 12" o.c.
ASTM D-312 Roofing Asphalt, Type III or IV	25 lbs. per 100 sq. ft. Concrete decks require asphalt primer.

MEMBRANE ATTACHMENT		
Adhesive Type	Smooth	Fleece-back
EverGuard® WB181 Bonding Adhesive	100-120 sq. ft. of installed membrane per gallon. Apply adhesive equally to both the substrate and underside of membrane.	100-120 sq. ft. of installed membrane per gallon. Apply to the roof substrate surface ONLY.
EverGuard® Low VOC TPO Bonding Adhesive	100-120 sq. ft. of installed membrane per gallon. Apply adhesive equally to both the substrate and underside of membrane.	Not Approved
EverGuard® TPO 1121 Bonding Adhesive	50-60 sq. ft. of installed membrane per gallon. Apply adhesive equally to both the substrate and underside of membrane.	Not Approved
EverGuard® TPO 3 Square Low VOC Bonding Adhesive	50-60 sq. ft. of installed membrane per gallon. Apply adhesive equally to both the substrate and underside of membrane.	Not Approved
LRF Adhesive M/ LRF Adhesive O	Not Approved	1" continuous beads spaced max 12" o.c.
OlyBond 500™ Canister	Not Approved	Applied in a spatter pattern at a rate of 3.75 lb./sq.
GAF® 2-part Roofing Adhesive	Not Approved	Applied in a spatter pattern at a rate of 3.75 lb./sq.
Hot Asphalt	Not Approved	25 lbs. per 100 sq. ft (1.2 kg/m ²)

All GAF® and EverGuard Extreme® accessories shall be used where applicable. GAF® Perimeter Edge Metal shall be used where conditions exist. This system shall be installed by a GAF® Master Select™ Contractor.

FLASHING: Refer to Specification Manual for flashing options and installation instructions.

Each roof has unique requirements. This general specification overview is a graphic representation of products and installation methods for select applications. To properly assess specific roofing needs, code compliance, system configurations and warranty eligibility, contact Contractor Services.

Note: Your Field Services or Technical Services Managers are the only employees who can approve any deviation from GAF's published specification manual(s). *Always review the appropriate Application & Specification Manual before commencing this project, as the Manual may contain information that is important for a successful installation.*

This general specification overview shall not waive, supersede or alter the requirements and recommendations found in the most current Application & Specification Manual(s) referenced above, printed technical bulletins or specific correspondence drafted for this project by Field Services or Technical Services Manager.

Again, each project has unique requirements. Listed below are typical fastening patterns that may be appropriate when fastening insulation to specific decks. For specific information on fastener selection and placement contact GAF Contractor Services at 1-800-766-3411.

INSULATION ATTACHMENT TABLE FOR FULLY ADHERED SYSTEMS

NUMBER OF FASTENERS								
Insulation Type	Board Size (feet)	Thickness	Standard Attachment Fasteners/Board			Attachment Fasteners/Board for 90 psf uplift Resistance		
			Field	Perimeter	Corner	Field	Perimeter	Corner
Isocyanurate	4x4	1"-1.4"	8	12	16			
	4x4	1.5"-1.9"	6	8	12	8	12	16
	4x4	2" minimum	4	6	8	4	6	8
	4x8	1"-1.4"	16	24	32			
	4x8	1.5"-1.9"	11	16	22	16	24	32
	4x8	2" minimum	8	12	16	8	12	16
EPS/XPS ¹	4x4	1"-1.4"	8	12	16			
	4x4	1.5"-1.9"	6	8	12			
	4x4	2" minimum	4	6	8			
	4x8	1"-1.4"	16	24	32			
	4x8	1.5"-1.9"	11	16	22			
	4x8	2" minimum	8	12	16			
Gypsum Board	4x8	1/4"-5/8"	16	24	32			
	4x8	1/2" minimum	16	24	32	21	32	36
Wood Fiber	4x4	1/2" minimum	6	8	12			
	4x4	1" minimum	4	6	8			
	4x8	1/2" minimum	16	24	32			
TYPE OF INSULATION FASTENERS								
Deck	Fastener		Plate		Penetration (minimum)			
Steel – all gauges	DRILL-TEC™ HD (#14) or Standard (#12)		3"Galvalume		3/4" through the deck			
Wood – plank and sheathing	DRILL-TEC™ HD (#14) or Standard (#12)		3"Galvalume		1" thread into/through the deck			
Structural Concrete	DRILL-TEC™ HD (#14) or DRILL-TEC™ CD-10		3"Galvalume		1" thread/shank into the deck			
Insulating Concrete	DRILL-TEC™ HD (#14)		3"Galvalume		3/4" thread through steel form			
Gypsum Concrete	DRILL-TEC™ Polymer Gyptec™		3"Galvalume		1 1/2" thread into the deck			
Cementitious Wood Fiber	DRILL-TEC™ Polymer Gyptec™		3"Galvalume		1 1/2" thread into the deck			

¹ Require a Cover Board.

Note: Attachment requirements to meet determined uplift resistance are dependent on deck type, specific fastener, etc. Refer to the Everguard® TPO/PVC Membrane Attachment Table in the Everguard® TPO/PVC Mechanically Attached Roofing System Manual for minimum pull-out values and deck requirements.