



TPO MA-202
Mechanically Attached
Up to 30 year NDL

COMPONENT	TYPE	REQUIRED	ATTACHMENT	RATE OF APPLICATION
DECK	Steel (Min 22 gauge), Structural Concrete, Wood Plank, Plywood, 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) layer	Mechanically Attached See Insulation Table below	See attached table
INSULATION	EnergyGuard™ Polyiso Roof Insulation, Tapered Polyiso Roof Insulation, HD Polyiso Cover Board ASTM C-1289 Dens Deck® or Dens Deck® Prime™ Roof Board ASTM C-1177 Securock® Gypsum Fiber or Securock® Glass Mat Roof Board ASTM C-1278	One (1) layer of any of the options listed	Mechanically Attached See Insulation Table below	See attached table
INSULATION OPTIONAL LAYER	EnergyGuard™ HD Polyiso Cover Board ASTM C-1289 Dens Deck® or Dens Deck® Prime™ Roof Board ASTM C-1177 Securock® Gypsum Fiber or Glass Mat Roof Board ASTM C-1278	One (1) layer of any of the options listed	Mechanically Attached See Insulation Table below	See attached table
SINGLE PLY MEMBRANE	EverGuard Extreme® TPO 70 or 80 mil ASTM D-6878	One (1) ply	Mechanically Attached See Membrane Table below	Refer to Specification Manual for specific requirements
GUARANTEE	WeatherStopper® EverGuard® Diamond Pledge™ NDL Roof Guarantee	Up to Thirty (30) years		GUARANTEE FEE APPLICABLE

INSULATION ATTACHMENT		MEMBRANE ATTACHMENT	
Steel, Plywood, and Wood Plank	Drill-Tec™ #12 or #14 Fasteners and 3" Plates	Steel and Lightweight Insulating Concrete	Drill-Tec™ #14 or #15 Fasteners and 2" Double Barbed, 2 3/8" Barbed or 2 3/4" Double Barbed Plates For LWIC decks, fasteners must penetrate steel form
Structural Concrete	Drill-Tec™ #14 or CD-10 Fasteners and 3" Plates	Plywood and Wood Plank	Drill-Tec™ #14 and 2" Double Barbed, 2 3/8" Barbed or 2 3/4" Double Barbed Plates
Lightweight Insulating Concrete	Drill-Tec™ #14 Fasteners and 3" Plates through steel form	Structural Concrete	Drill-Tec™ #14 or CD-10 Fasteners and 2" Double Barbed, 2 3/8" Barbed or 2 3/4" Double Barbed Plates
Gypsum and Cementitious Wood Fiber	Drill-Tec™ Polymer Gyptec® Fasteners and 3" Plates	Gypsum and Cementitious Wood Fiber	Drill-Tec™ Polymer Gyptec® Fasteners and 2" Double Barbed Plates

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 Mechanically Attached Systems

(Meets FM attachment requirements*)

NUMBER OF FASTENERS					
Insulation Type	Board Size (feet)	Thickness	Fasteners/Board		
			Field	Perimeter	Corner
Isocyanurate	4x4	any	4	4	4
	4x8	1/2"-1.2"	6	6	6
	4x8	≥1.3"	5	5	5
Perlite	4x4	any	4	4	4
Wood fiber	4x4	any	4	4	4
	4x8	any	6	6	6
Extruded Polystyrene	4x4	any	4	4	4
	4x8	1/2"-1.2"	6	6	6
	4x8	≥1.3"	5	5	5
Expanded Polystyrene	4x4	any	4	4	4
	4x8	1/2"-1.2"	6	6	6
	4x8	≥1.3"	5	5	5
Fanfold – TPO or Fleece-back PVC only	Fanfold**	3/8" min.	2-1-2-1-2	2-1-2-1-2	2-1-2-1-2
Gypsum Board***	4x8	1/4"-5/8"	6	6	6

*Attachment requirements to meet determined uplift resistance are dependent on deck type, specific fastener, etc.

**Fanfold attachment spacing is for each 2'x4' (0.6 m x 1.8 m) section.

***Gypsum installed over steel decks should be placed perpendicular to the deck flutes with the edges over the flute surface for proper bearing support.