

THERMglass™ Type IV

A High Performance Fiberglass Type IV Ply Sheet

FEATURES

Consistent quality

Multi-ply system

Maintainable areas

Surfacing options

UL, FM and Florida Building Code Listed

BENEFITS

- Dependable performance
- Non-rotting
- Redundant waterproofing
- Time-tested reliable installation techniques of conventional built-up roofing
- Long service life. Modification to roof-top readily accommodated
- Can be finished with various methods to meet local requirements
- Fire/wind protection

DESCRIPTION

THERMglass™ Type IV is a fiberglass ply sheet that exceeds ASTM D 2178, Type IV.

BASIC USES

THERMglass Type IV is designed for use as a ply sheet within a modified bitumen or built-up roofing system for application over preformed rigid insulation or base sheets. It may be used with Premium III or Premium IV Hot-Melt Adhesive or where an extra level of performance is required, THERMastic 80 or THERMastic Elastomeric Hot-Melt Adhesive.

PACKAGING

Available in rolls which are 36" (914.4 mm) wide by 180' (54.86m) in length, 500 ft²/roll (46.4 m²/roll) applied. Sold by pallet, with 25 rolls per pallet.

APPLICATION

General Application Data: Roof replacement usually involves more complexities than new construction roofing. Often encountered are situations such as rusted/deteriorated decks, rotted wood components, rooftop equipment which cannot be moved or shut down, and numerous other conditions.

The following application information is designed to serve as a general guide. Your local Tremco Representative will prepare detailed specifications based upon your roof's conditions.

Structural Deck: Must be properly designed and structurally sound.

Drainage: Ponding conditions are unacceptable and will adversely affect performance of any roofing system. If positive drainage does not exist, water removal must be facilitated by lowering drains, and/or installing additional drains, tapered insulation, or Tremco approved lightweight insulating concrete slope system.

Insulation: Insulation must be dry and kept dry. No more insulation shall be installed than can be covered that day.

Installation Procedures: According to particular job specifications, prepare surface to be covered:

- Replace areas of wet insulation, deteriorated deck, and wood components.
- Install roof insulation or base sheet.

Plan placement of THERMglass Type IV Roofing Ply to ensure that water will flow over or along, but not against exposed edges.

Starting at low point of roof, apply uniform and continuous mopping of the specified hot-melt adhesive using a standard roofing mop or Tremco approved felt layer.

Three ply membrane: Start and finish roof membrane along edges, terminations and projections, use starting/finishing strips; 12, 24, and 36" (305, 610, 914 mm) wide plies. Install THERMglass Type IV in shingle fashion.

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APPLICATION CONTINUED

Overlap starter strips 26" (660 mm) with first ply, then overlap each succeeding ply 24-2/3" (626 mm).

Four ply membrane: Start and finish roof membrane along edges, terminations and projections, use starting/finishing strips: 9, 18, 27, and 36" (229, 457, 685, 914 mm) wide plies.

Install THERMglass Type IV in shingle fashion. Overlap starter strips 29" (737 mm) with first ply, then overlap each succeeding ply 27-1/2" (699 mm).

Interply adhesive: Embed each ply in uniform and continuous mopping of specified hot-melt adhesive. Ply shall never touch ply. Apply specified hot-melt adhesive no more than 10' (3 m) ahead of each roll. Lightly broom plies from unmopped side to ensure complete adhesion. Overlap previous work 24" (600 mm). Lap ply sheet ends 6" (150 mm). Extend all plies to top edges of all cants and cut excess evenly. Stagger end laps.

Avoid walking on plies until adhesive has cooled.

BUR systems: 25 lb/100 ft² (1.2 kg/m²) ± 20% Install flashing as specified.

Gravel and smooth surfacing options are available. Consult your local Tremco Representative for specific surfacing options.

- Not intended to perform under ponding conditions. Positive drainage is required.
- Do not apply when ambient temperature prevents installation of hot-melt adhesives within stated application temperature range.
- Do not expose to solvents, oils, or other contaminants harmful to asphaltic materials.

APPLICATION RATE SURFACING OPTIONS

LIMITATIONS

PHYSICAL PROPERTIES

PROPERTY	TYPICAL VALUE	TEST METHOD
Breaking strength, min.	44 lbf/in MD (7.70 kN/m), 44 lbf/in XD (7.70 kN/m)	ASTM D 146
Pliability, radius bend	1/2" (13mm)no failure	
Net dry mass of asphalt impregnated glass felt, individuals rolls, min.	6.0 lbs/100 ft ² (366 g/m ²)	ASTM D 146
Mass of desaturated glass felt, min.	1.7 lbs/100 ft ² (83 g/m ²)	ASTM D 146
Bituminous saturant (asphalt), min.	3.0 lbs/100 ft ² (146 g/m ²)	ASTM D 146
Ash	70-88%	ASTM D 146

MAINTENANCE

Your local Tremco Roofing Sales Representative can provide you with effective maintenance procedures which may vary, depending upon specific conditions. Periodic inspections, early repairs and preventative maintenance are all part of a sound roof program.

PRECAUTIONS

Users must read container labels and Safety Data Sheets for health and safety precautions prior to use.

TECHNICAL SUPPORT

Your local Tremco Roofing Sales Representative, working with the Technical Service Staff, can help analyze conditions and needs to develop recommendations for special applications.



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