

THERMglass™ Type IV

A High Performance Fiberglass Type IV Ply Sheet

Composition: THERMglass™ Type IV is a heavy duty, non-rotting glass ply sheet that exceeds ASTM D 2178, Type IV.

Basic Uses: THERMglass Type IV is designed for use as a ply sheet within a 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 Elastomeric Hot-Melt Adhesive.

Limitation:

- 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.

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 16 rolls per pallet.

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.

Product Advantages	
Features	Benefits
Higher quality glass plies	<ul style="list-style-type: none"> • Consistent component to accept hot-melt adhesive and produce high quality roof • Non-rotting
Multi-ply system	<ul style="list-style-type: none"> • Redundant waterproofing • Time-tested reliable installation techniques of conventional built-up roofing
Maintainable areas	<ul style="list-style-type: none"> • Long service life Modification to roof top readily accommodated
Surfacing options	<ul style="list-style-type: none"> • Can be finished with various methods to meet local requirements
UL, FM and Metro Dade approved	<ul style="list-style-type: none"> • Fire/wind protection



Roofing & Weatherproofing Peace of Mind™

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.

Interply application rate:

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

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

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

Availability and Cost: Contact your local Tremco Roofing Representative for pricing and availability. For the name and number of your Representative, call the Roofing Division at 216/292-5000.

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

Guarantee/Warranty: Tremco Inc. warrants THERMglass Type IV to be free of defects and to meet published physical properties when tested according to ASTM and Tremco standards. Under this warranty, we will provide at no charge, THERMglass Type IV in standard packaging to replace any THERMglass Type IV proven to be defective when applied in accordance to our written instructions, and in applications recommended by us as suitable for THERMglass Type IV. THIS IS BUYER'S SOLE AND EXCLUSIVE REMEDY.

All claims concerning product defects must be made in writing within twelve (12) months of shipment. The absence of such claims in writing during this period will constitute a waiver of all claims with respect to such product.

Physical Performance Characteristics

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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 146-90
Pliability, 1/2" (13mm) radius bend	no failure	ASTM D 146-90
Net dry mass of asphalt impregnated glass felt, individual rolls, min.	7.5 lb/100 ft ² (366 g/m ²)	ASTM D 146-90
Mass of desaturated glass felt, min.	1.7 lb/100 ft ² (83 g/m ²)	ASTM D 146-90
Bituminous saturant (asphalt), min.	3.0 lb/100 ft ² (146 g/m ²)	ASTM D 146-90
Ash	70-88%	ASTM D 146-90

This warranty shall be IN LIEU OF any other warranty, express or implied, including but not limited to, any implied warranty of MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

Technical Services: Your local Tremco Representative, working with the Technical Service Staff, can help analyze conditions and needs to develop recommendations for special applications. The services of the Tremco Research Center, which has earned a unique reputation in weatherproofing technology, complement and extend the services of the Tremco Technical Service staff.

Statement of Policy and Responsibility: Tremco takes responsibility for furnishing quality materials and for providing specifications and recommendations for their proper installation.

As neither Tremco itself nor its Representatives practice architecture or engineering, Tremco offers no opinion on, and expressly disclaims any responsibility for the soundness of any structure on which its products may be applied. If questions arise as to the soundness of a structure or its ability to support a planned installation properly, the Owner should obtain the opinion of competent structural engineers before proceeding. Tremco accepts no liability for any structural failure or for resultant damages, and no Tremco Representative is authorized to vary this disclaimer.



3735 Green Road
Beachwood, OH 44122
216-292-5000

220 Wicksteed Ave
Toronto, ONT M4H 1G7
416-421-3300