

Tremline Roof Assembly

A Single Ply Roofing System with Two Lines of Waterproofing Defense

Description:

Tremline Roof Assembly (TRA) combines the advantages of a proprietary tough reinforced (EPDM/SBR) rubber sheet with THERMastic 100, a hot applied elastomeric modified bitumen for fully adhering the TRA sheet and effectively securing and waterproofing the most vulnerable part of the single ply system - the seam.

Basic Use:

TRA is designed to be used in new or replacement protected membrane applications where a superior fully adhered single ply system is desired.

System Composition:

Tremline roof assembly combines a reinforced rubber sheet with a hot applied elastomeric waterproofing adhesive for dual protection.

Good Roofing Practice:

- Do not install over wet substrates.
- Install polyethylene strips over seams prior to placing insulation.

System Limitations:

- Designed for use in protected membrane assemblies only.

Product Advantages	
Features	Benefits
Fully adhered	<ul style="list-style-type: none">• Reduces potential for leaks
Reinforced rubber sheet	<ul style="list-style-type: none">• Excellent mechanical and weathering properties
Highly elastomeric hot melt adhesive	<ul style="list-style-type: none">• Easily accommodates standard structural movement
Waterproofing redundancy	<ul style="list-style-type: none">• Double protection for seaming integrity and longer service life

- Do not install over uncoated fibreboard or foam insulations.
- Do not install near grease or oil.

Packaging:

Rolls of TRA: 1.5 m x 30.5 m (60 x 100 ft).

THERMastic 100: 27.2 kg (60 lb) kegs, 9 kegs per pallet.

Drainage:

Excessive ponding conditions can adversely affect the performance of any roofing system. Where positive drainage does not exist, water removal from the roof surface must be facilitated by lowering sumps, tapering insulation or adding drains.

Precautions:

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

Vapour/Air Barrier:

Where specified, ensure proper design and installation. Contact your Tremco representative for detailed recommendations.

Structural Integrity of Decks:

The deck must be properly designed and constructed to support and secure the Tremline Roof Assembly (TRA).

Insulation:

Extruded polystyrene insulation is to be loosely laid over the Tremline Roof Assembly.

General Installation Information:

See applicable instructions for detailed information on new roofing and reroofing for various deck types. Field application and flashing techniques are critical in securing a watertight roof. Application instructions must be followed exactly. There is no substitute for good workmanship by experienced, trained applicators. Follow the specific, detailed instructions for the specific application.

Do not substitute materials. If questions arise, contact your Tremco representative.

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Installation:

1. Heat the THERMastic 100 in a clean asphalt kettle equipped with a recirculating pump. Follow instructions on label.
2. Plan the placement of TRA sheeting to facilitate the fabrication of the least number of seams, and ensure that as water drains from the roof area it will run over or along, but not against shingle lap seams. Starting at the area's lowest level, position the uppermost sheet to overlap the adjacent sheet by 100mm (4").
3. Apply THERMastic 100 at the rate of 1.2kg/sqm (25 lb/sq) to the substrate, and also along the inside edge of the adjacent TRA sheet so that the THERMastic 100 extends onto the adjacent sheet 100-125mm (4-5"). Immediately roll the TRA into the hot THERMastic 100. Broom the top sheet to ensure the sheet is fully adhered without wrinkles, blisters or fishmouths.
3. Apply THERMastic 100 over the 100mm (4") lap of the first sheet and out onto the substrate for the second sheet. Install the second sheet. Apply THERMastic 100 over the laps such that the THERMastic 100 extends 50-75mm (2-3") on either side of the leading edge.
3. Install the third and succeeding rolls as outlined above.
4. Treat all perimeter edge details, expansion joints and other flashings as outlined in the job specifications, using TRA and THERMastic 100.

Surfacing:

Install 300mm (12") strips of polyethylene on the cured overpours of the installed TRA. Then place the specified thickness of extruded polystyrene insulation, woven polyolefin scrim fabric and ballast at the minimum rate of 49kg/sqm (1000 lb/square).

Technical Services:

Your local Tremco representative and the Tremco Engineering Services Department provide problem analysis and assistance in developing recommendations for special applications. On-site instruction can generally be provided at a nominal charge. Their services are complemented and extended by Tremco's Research and Development Laboratory, which has earned a unique reputation in weatherproofing technology.

Statement of Policy and Responsibility:

Tremco takes responsibility for the furnishing of quality roofing materials and providing specifications and recommendations for their proper installation. Tremco does not, either itself or its representatives, practice architecture or structural engineering. Tremco offers no opinion on and expressly disclaims any respon-

Physical Performance Characteristics

Tremline Roof Assembly

Property	Test Method	Value
TRA		
Breaking Strength	37GP52M	MD 1446N XMD 1288N
Tear Strength	37GP52M	MD 313N XMD 348N
Low Temperature Flexibility@ -40C		No cracks
Dynamic Impact @23°C @-10°C	37GP52M	Pass (3) Pass (3)
Water Absorption	ASTM D471-79	1.1%
Heat Aging (10d@120°C)	37GP52M(min 80% Break Str retained)	MD 1508N XMD 1574N
Accelerated Aging	Xenon Arc-1000hr (Min 90% Break Str retained)	Pass
Ozone Resistance	37GP52M	No cracks
THERMastic 100		
Elongation (%)	ASTM D412-92	>900
Low Temperature	ASTM D3111	-20 to -25
TRA System		
Lap Joint Strength	37GP52M	1578N
* before cond'ing		
* after cond'ing	(85% of original)	1546N

sibility for the structural soundness of any roof deck on which its products may be applied. The opinions of competent structural engineers should be obtained as to the structural soundness of the roof deck or its ability to properly support the contemplated roof installation. Tremco accepts no liability for any failure of the roof deck or resultant damages, and no Tremco representative is authorized to vary this disclaimer.

TREMCO

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