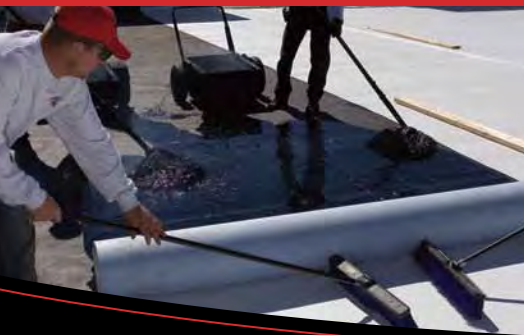


FIRESTONE ULTRAPLY™ TPO



One Source. Many Choices. That's Firestone.

Firestone
BUILDING PRODUCTS
NOBODY COVERS YOU BETTER™





FIRESTONE BUILDING PRODUCTS

Choose what works. Choose Firestone.

Contractors, building owners, architects and specifiers have trusted Firestone Building Products as the leading, single source for superior commercial roofing systems for more than 25 years. Since the first Firestone building products were installed in 1980, Firestone roofing systems have consistently delivered the two critical needs all building owners demand: outstanding durability and low life-cycle cost. Trust Firestone to bring you the depth of resources to ensure the right system for your needs, whether for one building or many.

Why Firestone?

- **One source for all your roofing needs**
 - Offers single-ply and asphalt-based roofing membranes, metal roofing systems, polyiso insulation and a full line of roofing accessories
 - Installation and layout expertise and product support through Firestone's Roof Solutions and Estimating Services departments and worldwide network of contractors, distributors and field representatives
 - 21 manufacturing facilities throughout North America
- **A name you can trust**
 - Stringent quality control ensures each component meets or exceeds industry standards
 - Annually invests millions of dollars in research and development
 - Resources and stability of a multi-billion dollar corporation, Bridgestone Americas, part of the world's largest tire and rubber company
- **Proven Performance**
 - Billions of square feet of single-ply roofing membrane installed globally
 - 100-year-plus heritage of success and innovation in rubber polymer technology
 - Some of the longest warranties in the industry
- **Firestone Red is the New Green**
 - Firestone continually invests in decreasing waste in its manufacturing facilities- eliminating more than a thousand tons of scrap material going to landfills

FIRESTONE ULTRAPLY TPO

YOUR CHOICE FOR CHEMICAL RESISTANCE AND ENERGY-SAVING REFLECTIVITY.

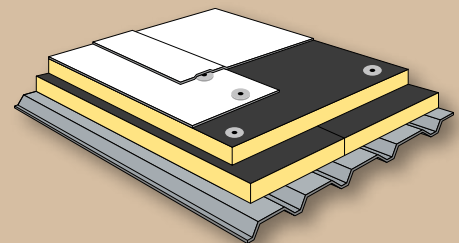
Thermoplastic single-ply roofing membranes are among the fastest growing commercial roofing products and have gained broad industry acceptance for their many performance and installation advantages. By offering one of the highest reflectivity values in the industry, UltraPly TPO membrane meets the increasing demand of UV-reflective, energy efficient roof systems. In addition to providing outstanding physical performance and UV reflectivity, the UltraPly TPO formulation has also been designed to provide excellent ozone and chemical resistance to protect long-term roof performance. (Please visit www.firestonebpco.com for more information.)

Firestone UltraPly TPO is a flexible, hot-air welded thermoplastic polyolefin roofing membrane available in 8', 10' and 12' widths. Suitable for a variety of low slope applications, UltraPly TPO features a white, tan or gray reflective surface that can help reduce a building's cooling load.

www.firestonebpco.com

Firestone UltraPly TPO Benefits

- **Outstanding reflectivity for enhanced energy efficiency.** White reflective surfaced UltraPly TPO exceeds the EPA ENERGY STAR® requirements and is listed with the Cool Roof Rating Council.
- **Superior rooftop performance.** UltraPly TPO exhibits outstanding resistance to degradation from ultraviolet (UV) radiation, ozone, chemical exposure and microbial growth.
- **Excellent durability and high strength.** UltraPly TPO's scrim-reinforced membrane provides enhanced puncture, tear and abrasion resistance.
- **Exceptional wind resistance.** UltraPly TPO Wide-Weld Systems provide higher wind uplift ratings than traditional single-weld systems.
- **Simple and economical to install.** Heat-welded seams form a homogeneous bond by fusing the top and bottom sheets together. The seams actually are stronger than the membrane itself.
- **UltraPly TPO System Options:** Ballasted, Mechanically Attached, and Fully Adhered systems are all available.



Firestone UltraPly TPO

UltraPly TPO's lightweight, flexible, scrim-reinforced sheet is engineered to provide dependable performance in new, reroof and retrofit applications.

Specifying products that are compliant with the EPA's ENERGY STAR program – such as Firestone UltraPly TPO – offers numerous cost and energy-savings benefits.



FIRESTONE ULTRAPLY TPO XR

ONE VERSATILE SHEET FOR BOTH ADHESIVE AND MECHANICALLY ATTACHED APPLICATIONS.

Firestone now makes it even easier to choose the right membrane for your new or reroofing needs. UltraPly TPO XR is available in 45 mil and 60 mil thicknesses and can be mechanically attached, fully adhered using asphalt or fully adhered with TPO XR Bonding Adhesive.

UltraPly TPO XR Bonding Adhesive is specially formulated to provide an environmentally-friendly attachment option for UltraPly TPO XR membrane by using a LVOC solvent package. By providing a LVOC bonding adhesive for our customers to attach UltraPly TPO XR membrane, Firestone again shows why Firestone red is the new green. (Please visit www.firestonegreen.com for details)



Firestone UltraPly TPO XR: An easy choice. And one of the most versatile.

With Firestone UltraPly TPO XR, you get the strength, weatherability and energy-savings of reflective thermoplastic, plus the versatility to work with a variety of decking surfaces and installation methods for both new construction and reroofing.

Firestone UltraPly TPO XR combines the durability of a single-ply membrane with the heat welding properties of TPO in an adhered application. With an external backing of non-woven polyester, Firestone UltraPly TPO XR delivers the performance you expect from Firestone. It offers an additional external reinforcement for enhanced puncture resistance.



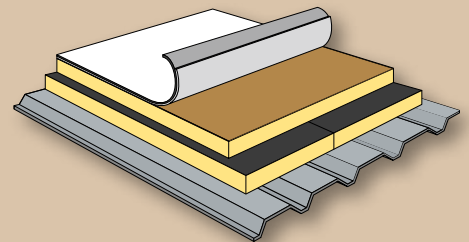
Installed with either hot asphalt or adhesive, Firestone UltraPly TPO XR is ideal for direct applications over many different roofing substrates.



www.firestonebpc.com

Firestone UltraPly TPO XR Benefits

- **Accommodates installation to a variety of substrates.** UltraPly TPO XR can be adhered to Firestone Polyiso 95+™ Insulation, Wood Fiberboard, DensDeck™ Cover Board, existing APP, SBS, Smooth or Mineral Surfaced Cap Sheets, and lightweight cellular concrete as well as other approved substrates.
- **Superior cut and puncture resistance.** Internally and externally reinforced with a combination of reinforced TPO membrane and non-woven polyester fabric backing.
- **Excellent weatherability and resistance.** UltraPly TPO XR is tough enough to resist UV rays, many common rooftop chemicals, and microbial growth.
- **Ideal for new, reroof and retrofit applications.** Lightweight membrane available in white, tan and gray.
- **Two available TPO XR membrane options to meet your needs.** Choose UltraPly TPO XR 100 (45 mil TPO membrane plus 55 mil external polyester) or UltraPly TPO XR 115 (60 mil TPO membrane plus 55 mil external polyester).



Firestone UltraPly TPO XR





FIRESTONE ULTRAPLY TPO PLATINUM™

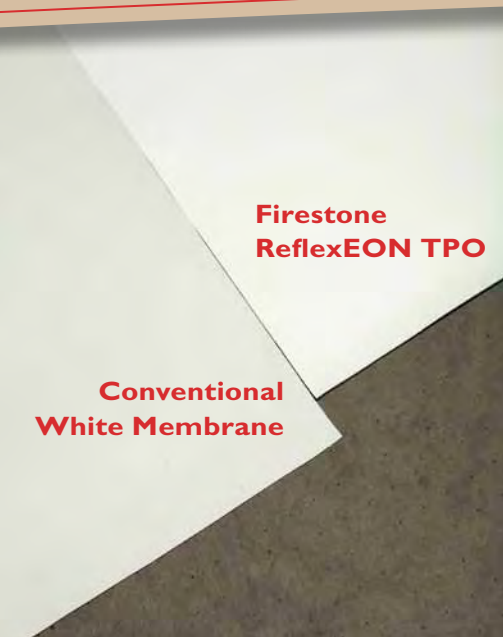
THE 30-YEAR THERMOPLASTIC ROOFING SYSTEM.

Designed with 80 mils of the industry's most durable TPO membrane—Firestone's UltraPly TPO Platinum System can be mechanically attached or fully adhered. What's more, UltraPly TPO Platinum is backed by an unsurpassed 30-year warranty, which can be enhanced through the use of Firestone HailGard™ insulation to cover 2" hail, 100 mph winds, and accidental punctures with no maintenance required to maintain warranty coverage.

For high wind areas, Firestone now offers *Firestone Wide-Weld*, a patented high-strength TPO seaming technology. Wide-Weld features a full width seam extending on both sides of the field attachment, distributing uplift forces uniformly along all edges of the fastening system for improved wind resistance.

When it comes to durability, warranty protection and long term value, UltraPly TPO Platinum is Firestone's best TPO roof yet.

Firestone TPO Roofing: Strength plus durability equals performance.



FIRESTONE REFLEXEON™ TPO

THE REFLECTIVE ROOF THAT IS BRIGHTER AND REFLECTS LONGER—YEAR AFTER YEAR.

The chief advantage of a light colored roof is its ability to reflect UV radiation and improve a building's energy efficiency. Firestone's new ReflexEON TPO extends those advantages, as it is the brightest, most reflective TPO membrane on the market today. Additionally, the increased brightness will help maintain the roof's reflectivity level and improve building energy efficiency.

- ReflexEON TPO's enhanced formulation provides uncompromised weatherability and durability.
- ReflexEON TPO extends the membrane's ability to reflect UV radiation and improve the building's energy efficiency.
- ReflexEON TPO can lead to lower maintenance and high efficiency on applications where energy savings and environmental considerations are paramount.

ReflexEON TPO is significantly whiter and brighter than standard TPO membrane.



FIRESTONE ISO 95+ POLYISO INSULATION

FOR USE WITH VIRTUALLY ALL TYPES OF COMMERCIAL ROOFING SYSTEMS.

The combination of a Firestone Roofing System with ISO 95+ roof insulation provides the most cost effective solution for today's roof design challenges. Firestone polyiso insulation is highly energy efficient, with the highest R-value ratings per inch versus other insulating materials. The boards are compatible with all types of roofing systems, and may be attached with hot asphalt to structural concrete, or mechanically fastened with Firestone fasteners and plates. ISO 95+ roof insulation also meets requirements for direct-to-steel deck assemblies without an additional thermal barrier in most installations.



Firestone's line of ISO 95+ polyiso roof insulation boards have the highest R-value ratings per inch versus other insulating materials and they are compatible with numerous substrates, including steel, structural concrete, gypsum, tectum and wood decking.

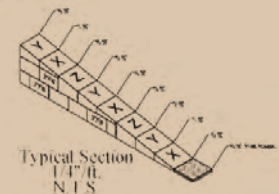
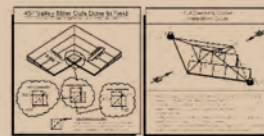
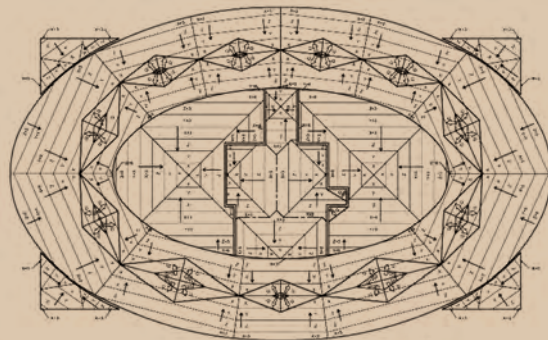


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ISO 95+ Polyiso Insulation Thermal Properties

NOMINAL THICKNESS		LTTR VALUE	MAXIMUM FLUTE SPAN
IN	MM		
1.00	25.4	6.0	2.625
1.40	35.6	8.4	4.375
1.50	38.1	9.0	4.375
1.60	40.6	9.6	4.375
1.80	45.7	10.9	4.375
2.00	50.8	12.1	4.375
2.30	58.4	14.0	4.375
2.50	63.5	15.3	4.375
2.60	66.0	15.9	4.375
2.70	68.6	16.6	4.375
2.80	71.1	17.2	4.375
3.00	76.2	18.5	4.375
3.30	83.8	20.4	4.375
3.50	88.9	21.7	4.375
4.0	101.6	25.0	4.500

Note: Thermal values have been determined in accordance with CAN/ULC S-770 and verified by an accredited testing laboratory. This method provides a 15-year time-weighted average thermal value.



Firestone's sophisticated CAD capabilities enable the Tapered Engineering Design Dept. to generate customized shop drawings tailored to the unique design requirements of the installation, minimizing labor and material costs.

FIRESTONE ROOFING SYSTEMS

A FULL LINE OF PRODUCTS DESIGNED TO PERFORM. AND ENDURE.



FIRESTONE RUBBERGARD™ EPDM

RubberGard EPDM is a popular material for both new and reroof low slope applications. Durable and easy to install, RubberGard EPDM provides low maintenance and outstanding weathering characteristics in climates worldwide.

FIRESTONE ASPHALT

APP and SBS Modified Bitumen asphalt-based systems are available with smooth or granule surfaces. The diverse Firestone asphalt product line offers specifiers and building owners flexibility in roof design.



UNA-CLAD™ BY FIRESTONE

For steep slope roofing needs, Firestone offers metal roofing systems for both new construction and reroofing applications. A variety of metals, profiles and colors are available to meet demanding architectural needs.

One Source. Many Choices. That's Firestone.

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Firestone
BUILDING PRODUCTS

NOBODY COVERS YOU BETTER™

Firestone Building Products

250 West 96th St., Indianapolis, IN 46260

Corporate Office: 1-800-428-4442 • 317-575-7000 • Fax: 317-575-7100
www.firestonebpc.com

International Offices:

Firestone Building Products Europe

Hermesstraat 2C - 1930 Zaventem, Brussels, Belgium

+32 2 7114450 Fax: +32 2 7212718

www.firestonebpc.com

Firestone Building Products Latin America

8200 NW 52nd Terrace, Suite 107

Miami, FL 33166

305-471-0117 Fax: 305-471-0377

www.firestonebpc.com

Firestone Building Products Canada

2835 Argenta Road, Unit #2

Mississauga, ON L5N 8G6

800-428-4442, ext 77663 Fax: 887-666-3022

www.firestonebpc.com

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