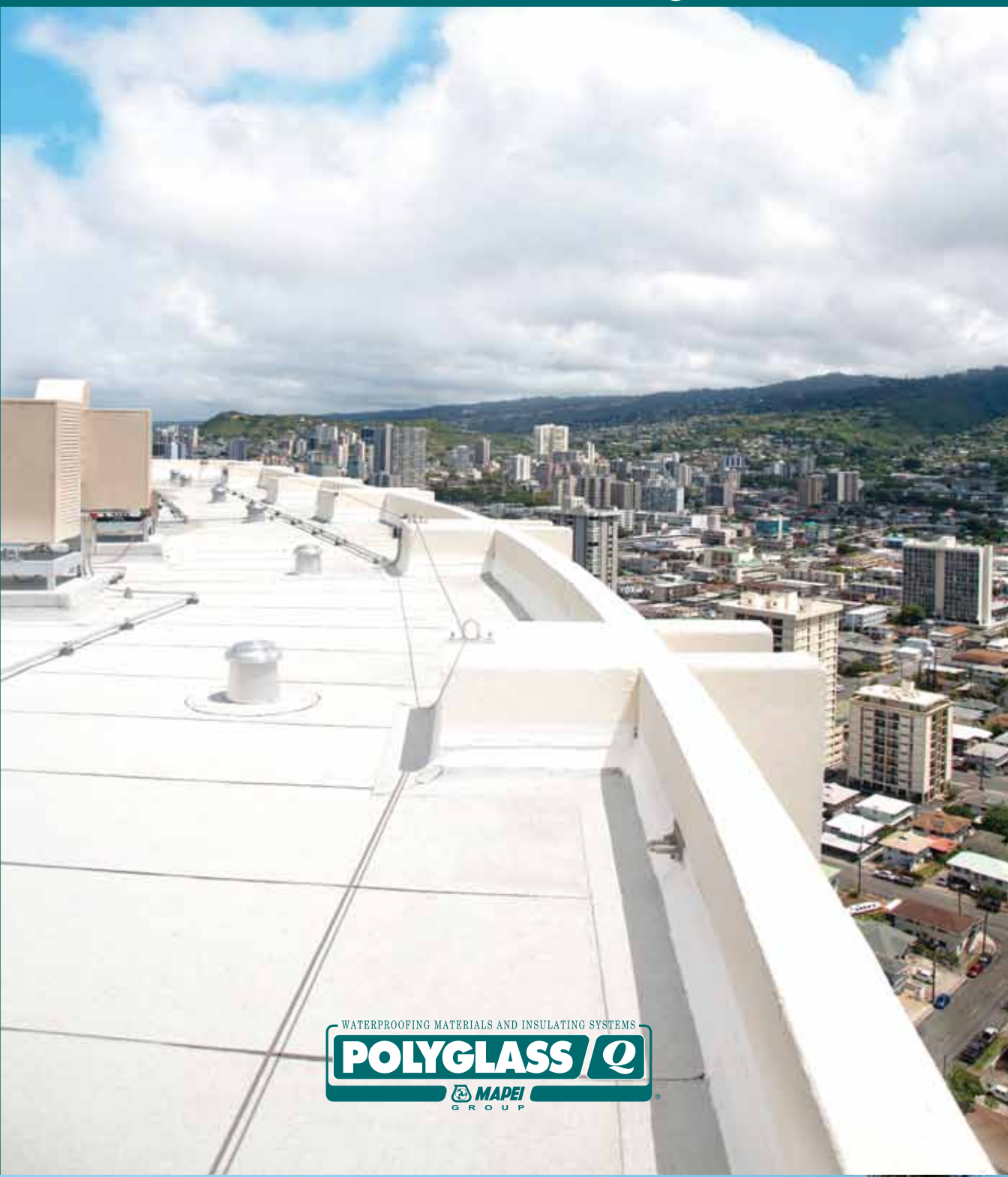


**Multi-Ply**

# Modified Bitumen Roofing Assemblies



WATERPROOFING MATERIALS AND INSULATING SYSTEMS

**POLYGLASS / Q**

**MAPEI**  
GROUP



## Multi-Ply Modified Bitumen Roofing Systems Providing **EXTRA** protection for your roof

The primary benefit of a bituminous roof system is a thick assembly comprised of multiple layers.

Multi-ply systems allow those responsible for building maintenance to sleep at night. Multi-Ply Modified Bitumen membranes have a stable thickness while single-ply membranes have annual thickness loss due to weathering.

Evolved from time-tested BUR roofs, the standard commercial roof application for over 100 years, modified bitumen roofs have membranes modified with SBS to attain rubber-like qualities or APP to attain the durability of plastic. The choice is matched to the needs of the building roof.

All Mod Bit membranes are **reinforced**. **Fiberglass reinforcements provide dimensional stability while polyester reinforcements add puncture resistance**. Used in a combination of both, you can have the best of both worlds.

### What are Modified Bitumen Membranes?

Traditional bituminous roofs were made with roofing felts and several mopped layers of hot asphalt, surfaced with gravel, to create a Built-Up Roof (BUR). This was the standard low-slope commercial roof for over 100 years, but BUR roofs have their limitations. To enhance performance, Modified Bitumen roof products were developed by adding polymers to the asphalt which was combined with a fiberglass or polyester reinforcement which results in an impermeable roof membrane. These APP or SBS sheets have been commercially available for 40 years in several configurations including base sheets, granulated cap sheets, film surfaced cap sheets, and metal surfaced sheets typically used for flashing.



## Modified Bitumen vs. Single Ply Membranes

Modified Bitumen multi-ply systems provide several layers of defense, unlike single ply membranes. When properly installed, mod bit membranes have a stable thickness while single-ply membranes have annual thickness loss due to weathering.

	<b>POLYGLASS Modified Bitumen</b>	<b>Single Ply EPDM • TPO • PVC</b>
Layers of Roof Membrane	2 or more	1
Climate Regions	Unlimited	Limited
Typical Thickness	Up to 300 mils	40 - 95 mils
Color Options	11 Polyglass colors	1*
Available Surface	Smooth, Granular & Film	Smooth
Available Warranties	20+ Years	20+ Years
Application Method	Self-Adhered, Heat-Welded, Cold-Applied, Hot Mopped	Fully Adhered, Ballasted, Mechanically-Fastened
Hail Resistant	✓	✓
Wind Rated	✓	✓
Fire Approvals	✓	✓
UL Approvals	✓	✓

\*EPDM is typically black, PVC & TPO are typically white





## Polyglass Modified Bitumen Membranes

APP	Product Name
<b>CAP</b>	Polybond® Polybond® G Polyflex® Polyflex® G Polyflex® G FR
<b>BASE</b>	Polyglass APP Base



SBS	Product Name
<b>CAP</b>	Elastoflex® S6 Elastoflex® S6 G Elastoflex® S6 G FR Elastoshield® TS G Elastoshield® TS G FR
<b>BASE</b>	Elastobase® Polyglass G2 Base



Self-Adhered	Product Name
<b>CAP</b>	Elastoflex® SA P Elastoflex® SA P FR Polyflex® SA P Polyflex® SA P FR
<b>BASE</b>	Elastoflex® SA V Elastoflex® SA V FR Polyflex® SA V PLUS Polyflex® SA V PLUS FR



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\* For more information on Polyglass roof coatings, please contact your local Polyglass Sales Representative or visit [www.polyglass.com](http://www.polyglass.com) for the latest Product Data Sheets.

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