GAF SBS | APP | BUR

Asphaltic Roofing Systems

Asphaltic Low-Slope Roofing

featuring **RUBEROID® Mod-bit membranes**

and **GAFGLAS® BUR Systems**

Before choosing an asphalt solution for your next roofing project, learn about the full line of SBS, APP, and BUR membranes and sheets — including EnergyCap™ CRRC (Cool Roof Rating Council)-rated reflective granules and more — from the earliest developers of asphaltic roll roofing.

GAF

We protect what matters most™

GAF RUBEROID®
Modified **Bitumen** Membranes

Product shown: **RUBEROID® HW Granule FR White Membrane**

Time-tested technology from the developers of RUBEROID® roll roofing

Asphalt, one of the oldest roofing technologies still in use, was first offered as a roll-roofing solution in 1892, as RU-BER-OID®, by the Standard Paint Company. 130+ years later, GAF (formerly Standard Paint Company) manufactures more than 20 high-performance SBS- and APP-modified bitumen roofing membranes under the **RUBEROID®** brand, along with 7 specialized **GAFGLAS®** BUR sheets.

These membranes are manufactured and/or assembled in American factories, creating American jobs in American communities.

For roofs that last, turn to the company that launched the asphaltic low-slope roofing industry, and still sets the pace for innovation and quality.

Today, all GAF asphaltic roofing systems offer:

- Granulated Solar Reflective Cap Membrane options
- High wind uplift ratings
- Multilayer protection
- Multi-ply durability
- Competitive guarantees

Product shown: **RUBEROID® Torch Smooth Membrane**

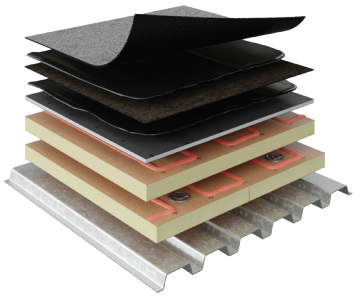
GAF asphaltic low-slope solutions in all three major categories:

SBS, APP, and BUR

With proven historical performance and time-tested durability, asphaltic roofing products are a go-to material of choice for high-end low-slope buildings. Commercial asphalt roofing systems consist of two or more waterproofing layers, offering redundancy for durable waterproofing protection.

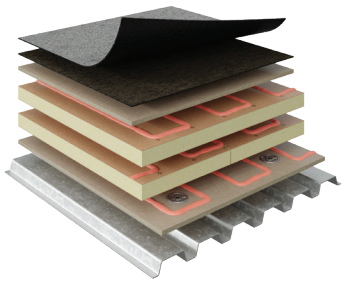
Depending on your project goals and building use, you'll find the right solution in SBS- or APP-modified bitumen GAF **RUBEROID®** membranes, or a multi-layer **GAFGLAS®** BUR roofing system.

Product shown: **RUBEROID® 20 Smooth Membrane**



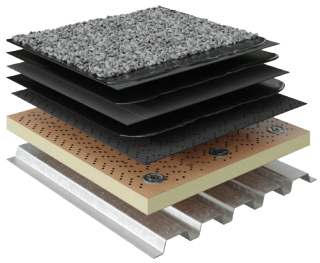
SBS-Modified Bitumen

is asphalt base that has been modified with a synthetic rubber polymer called Styrene-Butadiene-Styrene (SBS), which allows these modified bitumen sheets to achieve greater elongation and low-temperature flexibility ratings than other asphaltic membranes. SBS systems can be hot-mopped, cold-applied, heat-welded, mechanically fastened, or self-adhered.



APP-Modified Bitumen

is asphalt base that has been modified with Atactic Polypropylene — a plastic polymer that allows the roofing membrane to achieve durability and protection against the damaging effects of UV rays and weather elements. GAF APP membranes are typically applied with a torch, APP cap sheets are typically installed over either an APP base layer, BUR base sheet or ply, or thermal barriers, as many substrates cannot be directly heat-welded to.



BUR (Built-Up Roofing)

is one of the oldest roofing techniques. It involves the melting of kegs/bricks of asphalt in a large metal kettle and using mops to apply that asphalt in between a base sheet, ply sheets, and a cap sheet. Ply sheets and additional layers of asphalt can be added until you reach the desired thickness. BUR systems are typically built on the job site, whereas mod-bit system membranes are manufactured in a factory and delivered, ready-to-install, to the job site. In lieu of cap sheets, some jobs are finished with a layer of gravel overburden — often referred to as a flood coat and gravel topping — over the last layer of asphalt.

Versatile installation methods

Hot-Applied
The installers spread kettle-melted asphalt on the roof with mops and hot asphalt luggers.

Heat-Weld (Torch) Applied
The installer melts the asphalt on the underside of the membrane with a torch or hot-air welder, allowing the sheet to adhere to the substrate below. Membrane-to-membrane application allows the polymers to crosslink, providing a chemical bond that is very difficult to break.

Cold-Applied
A liquid adhesive applied to the substrate or to a previously applied layer of roofing material adheres the membrane. Cold applications may contain solvents for stronger bonds, or moisture-cure components to tackle different environmental conditions.

Mechanically Fastened
The installer attaches the roofing membrane using a fastener and plate to the substrate below.

Self-Adhered
The installer removes the bottom peel-and-stick layer to expose the adhesive to the substrate and create a water-tight bond.

Product shown: **RUBEROID® EnergyCap™ 30 Granule FR Membrane**

Weather resistance and durability

Thanks to high-quality raw materials and rigorous quality control, GAF SBS and APP Mod Bit and BUR roofing solutions provide durability and weather resistance for the long haul.

	SBS Modified Bitumen (e.g., RUBEROID® SBS)	APP Modified Bitumen (e.g., RUBEROID® APP)	Built-Up Roofing (e.g., GAFGLAS® BUR)
Weather Resistance:	Formulated with Styrene-Butadiene-Styrene (SBS) polymer modifiers, these membranes act like synthetic rubber. They exhibit outstanding flexibility, allowing them to bend without breaking during extreme temperature drops (with service ranges as low as -20°F).	Formulated with Atactic Polypropylene (APP) modifiers, these membranes provide rigid, UV-stabilized weather protection and perform excellently in hot, sun-drenched climates.	Provides maximum waterproof protection using alternating layers of asphalt roofing felt plies, typically capped with a high- performance BUR or SBS granulated cap membrane.
Durability:	Excellent tear and puncture resistance. These systems are highly effective when applied using hot asphalt or cold-applied adhesives.	Designed primarily for torch-application, creating a monolithic, highly bonded roof surface that withstands weathering.	The multiple layers offer robust physical strength and superior resistance to heavy roof traffic. When capped with a reflective mineral surfacing, BUR systems can efficiently resist harmful UV degradation.

Product shown: **RUBEROID® Torch Granule FR Membrane**

Part of your cool-roof solution

GAF EnergyCap™ Bright White granules are engineered to reflect significantly more solar ultraviolet radiation than GAF standard white granules. These reflective granules are available on all RUBEROID® EnergyCap™ and GAFGLAS® EnergyCap™ asphaltic membranes and cap sheets to help address cool roof initiatives across the country. For contractors and building owners who need to comply with Title 24 Part 6 Cool Roof requirements of the California Code of Regulations, GAF also offers **Ultra Bright White** granules on select EnergyCap™ membranes. Regardless of your location and regulatory environment, you can count on GAF to help make an asphaltic roof assembly part of your cool roofing plan.

Hybrid solutions

Hybrid roof assemblies — typically a cap of fleece-back TPO, PVC, or PVC KEE single-ply membrane paired with a base layer of an asphaltic membrane — can contribute to a building's energy efficiency, resiliency, and sustainability goals. By combining characteristics of multiple roofing technologies, hybrid systems can also increase the overall robustness of the assembly.

Why go hybrid?

Protection and Durability

A hybrid fleece-back single-ply membrane and asphaltic base assembly provides redundancy and protection against punctures[1], and adds overall thickness to the system, providing added durability to the roofing system design.

Increased Solar Reflectance

The addition of a single-ply reflective membrane over a dark-colored asphaltic membrane will greatly increase the Solar Reflectance Index (SRI) of the roof surface.

Versatility

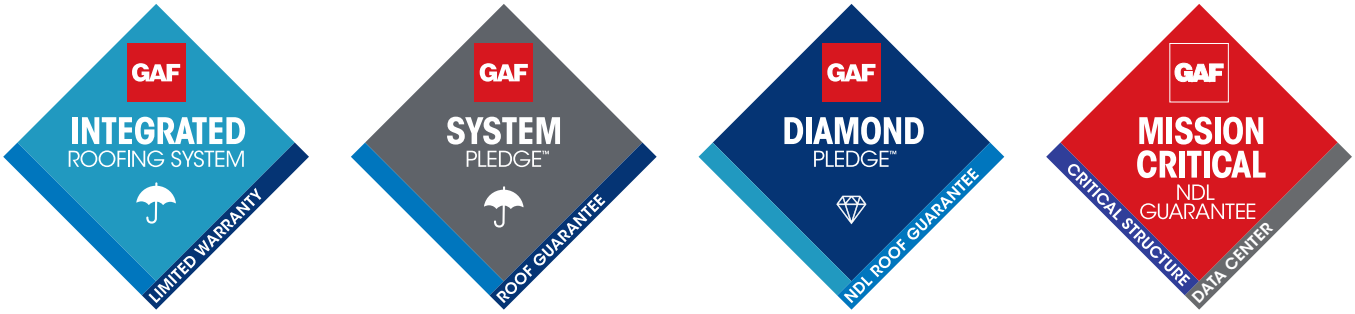
A hybrid roof solution offers the opportunity to select a membrane or cap sheet to address specific challenges, including exposure to certain project-specific conditions or the need for overburden.

Minimal odor and noise disturbance

The selection of a single-ply membrane as the top layer allows for installation with low-VOC options that can have minimal odor and noise disturbance if construction is taking place while the building is occupied.

[1] GAF warranties and guarantees do not provide coverage against hail or other punctures except where additional puncture-resistance coverage is purchased on eligible jobs. Contact GAF for more information. Refer to gaf.com for more information on warranty and guarantee coverage and restrictions.

Competitive guarantees



Durable and long-lasting, GAF mod-bit and BUR roofing systems are eligible for No Dollar Limit guarantees up to 30 years for qualifying systems.

See the Commercial Roof Warranty Comparison Guide at gaf.com/guarantees for details.

Rigorous Testing: Our membrane assemblies demonstrate strict compliance with FM, UL, cool roof ratings, and ASTM standards. For example:

SBS	**RUBEROID® Mop Smooth 1.5**	Meets or exceeds ASTM D6164 Type I, Grade S
	RUBEROID® Mop Granule FR	Meets or exceeds ASTM D6164 Type I, Grade G
	RUBEROID® Mop Plus Granule FR	Meets or exceeds ASTM D6164 Type II, Grade G
	RUBEROID® HW 25 Smooth	Meets or exceeds ASTM D6163 Type I, Grade S
	RUBEROID® HW Smooth / HW Granule FR	Meets or exceeds ASTM D6164 Type I, Grade S/G
	RUBEROID® 30 Granule FR	Meets or exceeds ASTM D6163 Type I, Grade G
	RUBEROID® EnergyCap™ 30 Granule FR	Tested in accordance with ASTM C1549 (solar reflectance); CRRC rated; eligible for 2025 Title 24 California Cool Roof compliance Meets or exceeds ASTM D6163 Type I, Grade G
APP	**RUBEROID® Torch Smooth**	Meets or exceeds ASTM D6222 Type I, Grade S
	RUBEROID ® Torch Granule FR	Meets or exceeds ASTM D6222, Type I, Grade G

Modified Bitumen & BUR Manufacturing Locations

Manufactured and supported throughout the U.S.

GAF Commercial manufactures asphaltic products in five dedicated plants strategically located on both the East and West Coasts, the South, and the Midwest. Our asphaltic systems are fully backed by regionalized GAF Design Services specialists, local Field Services inspectors, and specialized Codes & Approvals teams.

These regionalized teams help us tailor solutions that map to your historical regional preferences and demand. For example, while SBS flexibility tends to be in great demand in North Eastern states as well as Texas and Florida, APP has long been the solution of choice in Chicago, BUR systems are quite common in California, and the South typically calls for highly codified Miami-Dade, Florida Building Code, and Texas Department of Insurance approvals. Understanding these trend- and demand-lines helps GAF respond quickly and insightfully to your asphaltic roofing project needs.

BUR

BW = Bright White, UBW = Ultra Bright White

Product	Item Code	Coverage*	Type	ASTM	Core†	Mils Thick‡	Surfacing Bottom/Top
GAFGLAS® Stratavent® Nailable Venting Base Sheet	3013	1.25 SQ	Base	D4897 Type II	G	110	Granules / Sand
GAFGLAS® Stratavent® Perforated Venting Base Sheet	3304	1.25 SQ	Base	D4897 Type II	G	95	Granules / Sand
GAFGLAS® Ply 4	3103	5 SQ	Ply	D2178 Type IV	G	26	– / –
GAFGLAS® FlexPly™ 6 Ply Sheet	3206/3208	5 SQ	Ply	D2178 Type VI	G	30	– / –
GAFGLAS® #75 Base Sheet	3300	3 SQ	Base	D4601 Type II	G	55	Sand / Sand
GAFGLAS® Mineral-Surfaced Cap Sheet	3403	1 SQ	Cap	D3909	G	105	Sand / Granules
GAFGLAS® Mineral-Surfaced Cap Sheet	3404/3405	1.25 SQ	Cap	D3909	G	95	Sand / Granules
GAFGLAS® EnergyCap™ Mineral-Surfaced Cap Sheet	3407 (BW) / 3406 (UBW)	1 SQ	Cap	D3909	G	140	Sand / Bright White Granules

* For coverage information please refer to product data sheets located at gaf.com
† Core Reinforcement: G = Glass-Fiber, P = Polyester
‡ Subject to change. For further thickness information please refer to current product data sheets at gaf.com

SBS Heat-Weld Applied

BW = Bright White, UBW = Ultra Bright White

Product	Item Code	Coverage*	Type	ASTM	Core†	Mils Thick‡	Surfacing Bottom/Top
RUBEROID® HW 20 Smooth	3787	1.5 SQ	Base	D6163 Type I	G	90	Burn-Off Film / Mineral Parting Agent
RUBEROID® HW 25 Smooth	3757	1.5 SQ	Base	D6163 Type I	G	95	Burn-Off Film / Sand
RUBEROID® HW 30 Smooth	3784	1 SQ	Base	D6163 Type I	G	120	Burn-Off Film / Mineral Parting Agent
RUBEROID® HW Smooth	3754	1 SQ	Base	D6164 Type I	P	120	Burn-Off Film / Sand
RUBEROID® HW Granule FR	3752	1 SQ	Cap	D6164 Type I	P	160	Burn-Off Film / Granules
RUBEROID® HW Plus Granule FR	3753	1 SQ	Cap	D6164 Type II	P	165	Burn-Off Film / Granules
RUBEROID® EnergyCap™ HW Plus Granule FR	375C (BW)/ 375B (UBW)	1 SQ	Cap	D6164 Type II	P	160	Burn-Off Film / Bright White Granules
RUBEROID® EnergyCap™ HW 30 Granule FR	3785 (BW)/ 3786 (UBW)	N/A	Cap	D6163 Type I	G	140	Burn-Off Film / Bright White Granules

* For coverage information please refer to product data sheets located at gaf.com
† Core Reinforcement: G = Glass-Fiber, P = Polyester
‡ Subject to change. For further thickness information please refer to current product data sheets at gaf.com

APP Torch-Applied

BW = Bright White, UBW = Ultra Bright White

Product	Item Code	Coverage*	Type	ASTM	Core†	Mils Thick‡	Surfacing Bottom/Top
RUBEROID® Torch Smooth	3603	1 SQ	Base	D6222 Type I	P	160	Burn-Off Film / Talc/Sand
RUBEROID® Torch Granule	3605	1 SQ	Cap	D6222 Type I	P	165	Burn-Off Film / Granules
RUBEROID® Torch Granule FR	3608	1 SQ	Cap	D6222 Type I	P	160	Burn-Off Film / Granules
RUBEROID® EnergyCap™ Torch Granule FR	386F*/386D**	1 SQ	Cap	D6222 Type I	P	160	Burn-Off Film / Bright White Granules
RUBEROID® EnergyCap™ Torch Plus Granule FR	386E*/386C**	1 SQ	Cap	D6222 Type II	P	175	Burn-Off Film / Bright White Granules

SBS Hot Mop / Cold-Applied

BW = Bright White, UBW = Ultra Bright White

Product	Item Code	Coverage*	Type	ASTM	Core†	Mils Thick‡	Surfacing Bottom/Top
RUBEROID® 20 Smooth	3706	1.5 SQ	Base	D6163 Type I	G	90	Sand / Sand
RUBEROID® Mop Smooth	3703	1 SQ	Base	D6164 Type I	P	130	Sand / Sand
RUBEROID® Mop Smooth 1.5	3710	1.5 SQ	Base	D6164 Type I	P	97	Sand / Sand
RUBEROID® Mop Plus Smooth	3702	1 SQ	Base	D6164 Type II	P	140	Sand / Sand
RUBEROID® 30 Granule FR	3705	1 SQ	Cap	D6163 Type I	G	150 – 157	Mineral / Granules
RUBEROID® Mop Granule	3705	1 SQ	Cap	D6164 Type I	P	140	Sand / Granules
RUBEROID® Mop Granule FR	3866	1 SQ	Cap	D6164 Type I	P	150	Sand / Granules
RUBEROID® Mop Plus Granule FR	3865	1 SQ	Cap	D6164 Type II	P	155	Sand / Granules
RUBEROID® EnergyCap™ Mop Plus Granule FR	370N (BW)/ 370G (UBW)	1 SQ	Cap	D6164 Type II	P	160	Sand / Bright White Granules
RUBEROID® EnergyCap™ 30 Granule FR	370M (BW)/ 370H (UBW)	1 SQ	Cap	D6163 Type I	G	150 – 157	Sand / Bright White Granules
RUBEROID® UltraClad™ SBS (Hot Mop and Heat-Weld Applications Only)	3713A44	1 SQ	Cap	D6298	G	150	Sand / Embossed Aluminum

* For coverage information please refer to product data sheets located at gaf.com
† Core Reinforcement: G = Glass-Fiber, P = Polyester
‡ Subject to change. For further thickness information please refer to current product data sheets at gaf.com

Asphaltic Accessories

Product		Packaging
	MATRIX 101 **(Premium SBS Membrane Adhesive)** High-quality, low odor, adhesive for cold-applied SBS-modified bitumen systems	5 Gal., 55 Gal.
	MATRIX 201 **(Premium SBS Flashing Cement)** High-quality flashing cement for flashing details, attaching membranes to walls, and repairs in SBS-modified bitumen systems	5 Gal.
	MATRIX 102 **(SBS Membrane Adhesive)** Quality fiber-reinforced, rubberized, low odor adhesive for cold-applied SBS-modified bitumen systems	5 Gal., 55 Gal.
	MATRIX 202 **(SBS Roof Flashing Cement)** Quality flashing cement for flashing details, attaching membranes to walls, and repairs for SBS-modified bitumen systems	5 Gal.
	MATRIX MC **(Moisture Cure Adhesive)** High-quality adhesive for cold-applied SBS-modified bitumen systems. Extremely Low VOC.	5 Gal.
	MATRIX MCF **(Moisture Cure Flashing Cement)** High-quality flashing cement for cold-applied SBS-modified bitumen systems. Extremely Low VOC.	3.5 gal.
	MATRIX 203 **(Plastic Roof Cement)** General-purpose roof cement; can be used for adhering BUR base, ply, and cap sheets in vertical applications	5 Gal.
	MATRIX 204 **(Wet/Dry Roof Cement)** Trowel-grade consistency and water-displacing additive suitable for sealing leaks and openings, and for emergency repairs, even on wet surfaces	5 Gal.
	Matrix 307 **(Premium Asphalt Primer)** Penetrates concrete and masonry to promote an excellent bond for asphaltic adhesives, cements, or coatings	1 Gal., 5 Gal., 55 Gal.
	M-Bond™ Adhesive/Sealer Moisture-curing polyether roofing sealant bonds to asphaltic membranes, concrete, steel, aluminum, wood, glass, and PVC. Available in White and Black.	10.1 Oz. Tubes
	Mineral Shield Granules An aesthetic treatment of end laps and side laps on granule- surfaced, built-up, and modified bitumen membranes. Available in White, Black, Tan, EnergyCap™ Bright White & Ultra Bright White.	5 Gal.

Visit **gaf.com/asphalticmembranes**

For additional information, contact **designservices@gaf.com**

A standard INDUSTRIES COMPANY

We protect what matters most™

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