

PRODUCT SELECTION GUIDE

CertainTeed Low-Slope Roofing

Asset Protection and Continuity of Service

A roof is an assurance policy.

In most cases, building owners aren't concerned with the particular material their roof is made out of. The function of a roof is to protect what's inside the building – the structure, its contents and occupants. The roof shields a building from damage to these assets. What building owners are really looking for is performance. They're looking for durability. Warranties cover leak repair, not asset damage or disruption of service. Every investment decision an owner makes should include an understanding of needs and weighing the value of price versus risk.

Your reputation is on the line.

Where does the finger point when a roof leaks? The roofing contractor. Statistics show that faulty installation is the primary cause of roof leaks. That means, regardless of the leak source, your relationship with your customer and your reputation are on the line with each installation. You're not just in the roofing business, you're in the **“Asset Protection & Continuity of Service”** business.

A portfolio of quality roofing materials.

CertainTeed offers a complete line of asphalt-based roof systems with BUR (non-modified asphalt or built-up roofing), SBS and APP-modified systems, silicone and acrylic liquid-applied roofing systems, complemented by comprehensive low-slope accessories including primers, adhesives, insulation, coatings, liquid flashing and edge metal. You can recommend the right solution for your customer based on their performance needs.



Support

We are equally committed to manufacturing consistent, quality products to protect your assets *and* supporting their order, delivery, installation and maintenance. CertainTeed offers professional, live support in the United States and Canada.

Commercial Roofing General Support

Monday through Friday from 7:00 AM to 6:30 PM, Eastern Standard Time.

NORTH EAST - Lake Central, North East, & Mid-Atlantic

Phone: 800-537-2974 / Fax: 800-279-9450 / Email: ctrpgcsnortheast@saint-gobain.com

SOUTH ATLANTIC / SOUTH EAST

Phone: 800-334-6639 / Fax: 800-345-2641 / Email: ctrpgcssoutheast@saint-gobain.com

WEST - North West & South West

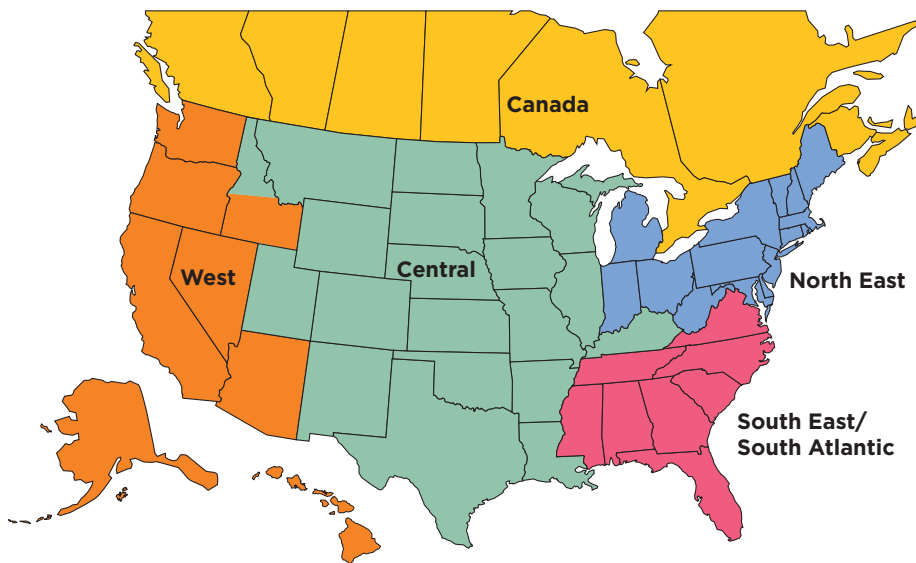
Phone: 800-238-0958 / Fax: 800-790-3347 / Email: ctrpgcswest@saint-gobain.com

CENTRAL - North Central and South Central

Phone: 800-999-5150 / Fax: 800-999-5350 / Email: ctrpgcscentral@saint-gobain.com

CANADA

Phone: 888-240-0542 / Fax: 610-254-5423 / Email: roofordersCA@saint-gobain.com



Commercial Roofing Technical Services

CertainTeed has a team of seasoned low-slope professionals available for technical support Monday through Friday, 8:30 AM to 5:00 PM, Eastern Standard Time, complemented by localized support available during business hours in Central and Pacific Standard Zones.

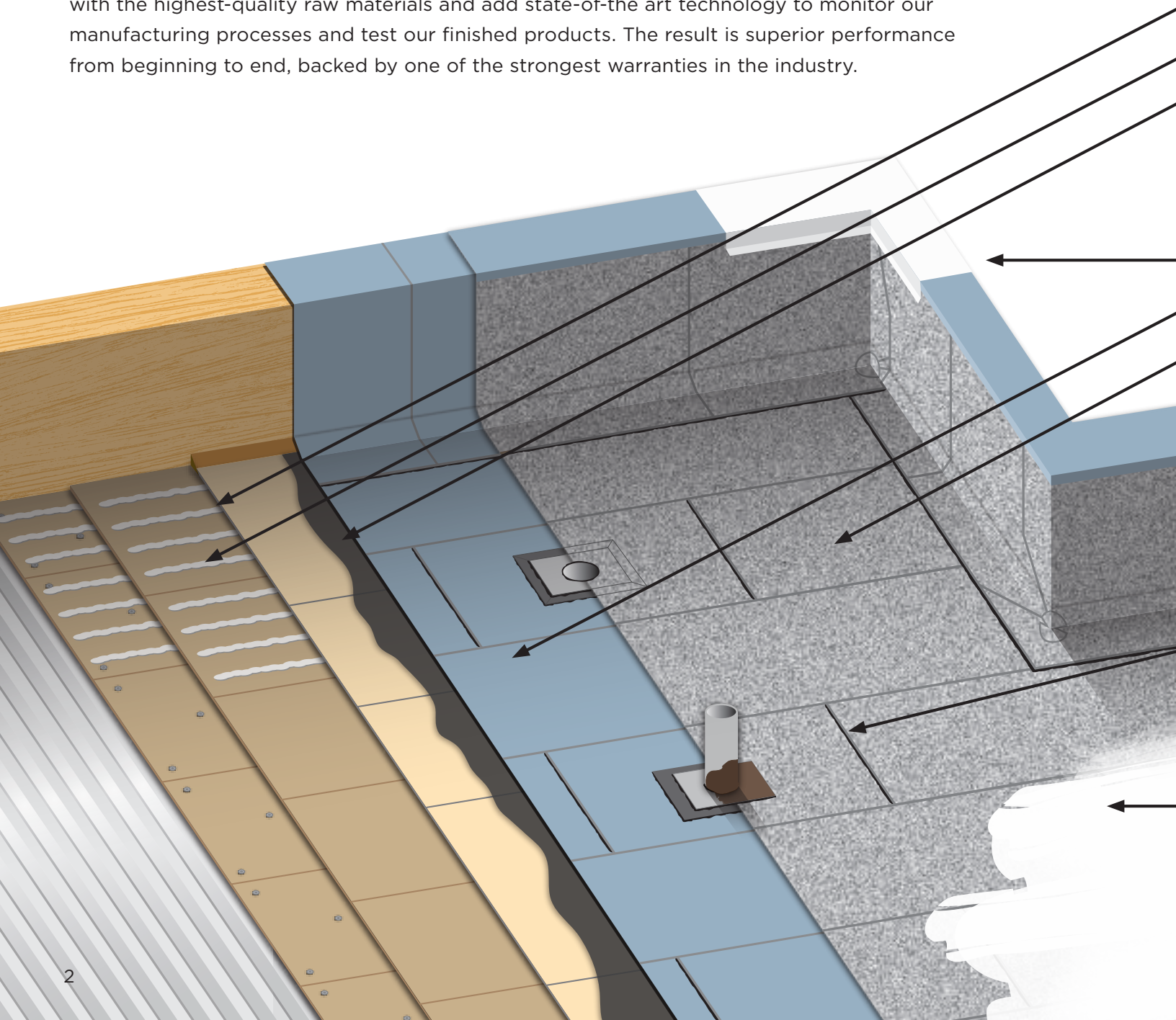
Phone: 800-396-8134 ext. 2

rpg@saint-gobain.com

One Brand One Warranty

CertainTeed offers a comprehensive selection of high-quality roofing products needed to complete and maintain the entire roof system with confidence.

Through the responsible development of innovative and sustainable building products, CertainTeed has helped shape the building products industry for more than 115 years. We start with the highest-quality raw materials and add state-of-the-art technology to monitor our manufacturing processes and test our finished products. The result is superior performance from beginning to end, backed by one of the strongest warranties in the industry.



One Solution

A low-slope roof system is comprised of layers of individual products.

While not every roof system uses every product, this Product Selection Guide is organized to correlate with the anatomy of a low-slope roof, or the order in which products are typically utilized.

FlintBoard® Insulation & Cover Board	4
Millennium Insulation Adhesive	5
FlintPrime® QD Asphaltic Membrane Primer	6
FlintBond® Asphaltic Membrane Adhesive	7
Asphaltic Membranes	
Understanding Products & Systems	8
Selecting Base/Ply Sheets	10
Selecting Cap Sheets	11
Self-Adhered Systems	12
Torch-Applied Systems	16
Hot-Asphalt or Cold-Adhesive Systems	22
Granulated Cap Colors	26
Flashing & Repair	
FlintSeal® Plastic Cement	28
FlintBond Flashing Adhesive & Repair	28
SMARTCOAT™ 365 Silicone Repair Mastic	29
SmartFlash® ONE Liquid-Applied Flashing & Repair	29
FlintEdge® Edge Metal	32
SMARTCOAT Liquid-Applied Roof Restoration & Coating	33
Product & System Warranties	36

FlintBoard®

FlintBoard roof insulation slows the flow of heat into and out of the building through the roof deck, reducing energy costs for building owners as well as thermal strain to the roof system.

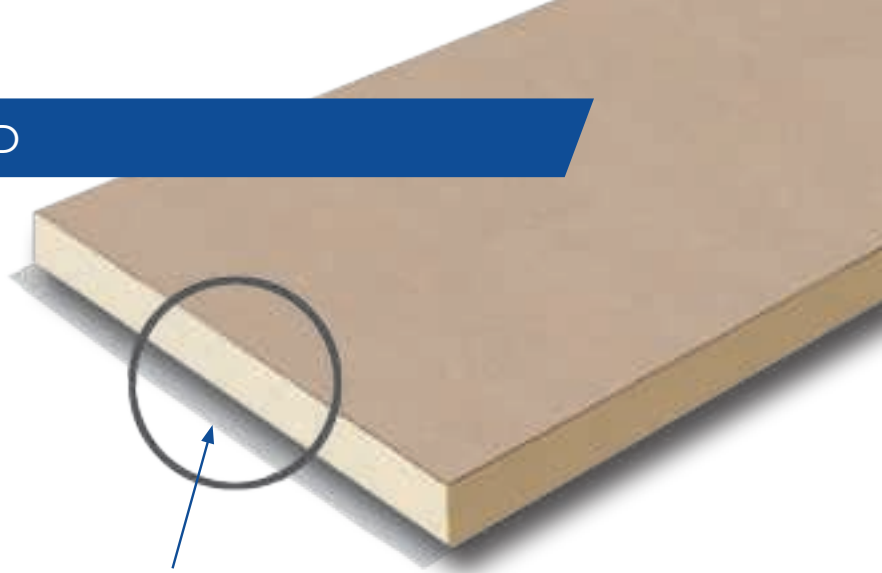
FlintBoard closed-cell polyisocyanurate insulation board offers the highest R-value (resistance to heat flow) per inch available and long-term thermal resistance values (LTTR*) from 5.7 to 27, LTTR. FlintBoard HD (High Density) may also serve as a lighter weight cover board, as compared to more traditional gypsum-based options.

- Dimensionally stable and suitable for almost any climate
- Lightweight for easy handling and installation
- Engineered for use with built-up and modified asphalt roof systems, shingles, tile and slate
- Passes the strictest fire performance tests, having earned FM 4470 Class 1 and UL 1256 ratings; ASTM C1289, see Technical Data Sheets for code compliance information

**LTTR is the industry standard method for calculating the 15-year time-weighted average for roof insulation.*

Tapered Design Services

CertainTeed offers takeoff, technical and design services to remove complications from the bid process. Standard and extended panels are available.



Vapor retarders are sometimes specified beneath insulation in a low-slope roof system to prevent moisture from within the building penetrating the roof system. All CertainTeed Flintlastic membranes may be utilized as vapor retarders.

Product	Description
FlintBoard ISO/ISO-T (T=Tapered)	Workhorse product features heavy, black (non-asphaltic), organic fiber-reinforced felt facers 4'x4' (standard or tapered), 4'x8'
FlintBoard ISO Cold/ISO-T Cold (T=Tapered)	Features heavy-duty inorganic glass-reinforced facers for improved dimensional stability, ideal for cold-applied adhesive applications 4'x4' (standard or tapered), 4'x8'
FlintBoard ISO NB	Features foam core laminated to 7/16", 5/8" or 3/4" OSB or plywood, fiber-reinforced felt facer on bottom surface- eliminates the need for additional wood decking 4'x4', 4'x8'
FlintBoard ISO CV	Features foam core with 1", 1.5" or 2" ventilation channels bonded to 7/16", 5/8" or 3/4" OSB or plywood, fiber-reinforced felt facer on bottom surface- excellent for sloped, unvented roof decks 4'x8'
FlintBoard ISO Pre-Cut Crickets	Provides a standardized pre-fabricated cricket solution to promote positive drainage Unfolds to 12'x4', 1/4":12 and 1/2":12 slopes
FlintBoard ISO HD Cover Board	Lightweight (11 lbs per 4'x8' panel), quicker to install than heavier gypsum-based boards, high density polyiso insulation designed for use as a cover board 4'x4', 4'x8'
Hinged Target Sump	Save 74% in material and waste costs over field fabricated sumps when installing drains. Manufactured with FlintBoard ISO Cold 25 psi.

Millennium

CertainTeed offers a variety of roof insulation adhesives, as opposed to mechanical fasteners, to decrease labor and eliminate the potential for thermal bridging without compromising a strong, durable bond. Insulation adhesive is designed for use with 4'x4' FlintBoard® insulation panels.

	Millennium One Step™ Foamable Adhesive	Millennium One Step Green® Foamable Adhesive	Millennium PG-1 Low Viscosity Adhesive	FlintBond® Brush
Material	Polyurethane Foam	Polyurethane Foam (45% renewable content)	Polyurethane Foam	SBS-Modified Adhesive
Temperature	No minimum		40°F and rising	65°F (for best results)
Rise Time	None - Immediate installation		2-3 minutes	N/A
Packaging	1.5 liter cartridges		5G, 15G, 50G	5G
Application	Manual Battery Powered Single Bead, Multi-Bead Applicator, Pneumatic Applicator		Cyclone	Stiff bristled brush, notched squeegee

Millennium One Step Advantages

- Precise 1:1 application ratio every time
- Consistent adhesive in varying temperature or humidity
- No temperature restrictions - all year round formula
- Will not suffer from foam collapse
- High viscosity = wider footprint and stronger bond
- Labor saving - boards go down immediately
- Essentially VOC free and solvent free
- No chance of overspray - no respirator needed



Battery Powered
Applicator (One Step)



Multi-Bead Applicator
(One Step) (Pump Grade)



Cyclone Applicator

FlintPrime® QD (Quick Dry)

Why Prime?

Primer is used to increase adhesion of the membrane to certain substrates, where the membrane will be applied directly to the substrate (not mechanically attached). Enhance adhesion, wind uplift resistance and long-term performance of BUR and modified bitumen roof systems with FlintPrime QD.

Product	Color	Packaging	Units/Pallet	Yield/Unit
FlintPrime QD	Black	1G	150	100-200 sq. ft.
		5G	48	500-1,000 sq. ft.
FlintPrime Aerosol	Black	15 oz.	960 (80 cartons, 12 cans each)	30-40 sq. ft.



FlintPrime Aerosol

FlintPrime Aerosol is valued by contractors for metal construction detail surface preparation.

FlintPrime QD

FlintPrime QD is a solvent-based, highly penetrating, quick-dry asphaltic primer designed to promote adhesion when installing self-adhered modified bitumen base sheets and/or those applied by torch, cold adhesive or hot asphalt.



TIP: Top load CertainTeed asphaltic primers and adhesives on full truckloads for no additional freight. Full pallet orders not required.

FlintBond®

Seal your SBS-modified roof system watertight with FlintBond SBS-Modified Adhesive, available in brush, trowel and caulk grades. FlintBond is a professional-grade, cold-applied adhesive manufactured using premium asphalt, rubber, solvent and fibers.



FlintBond Caulk

Small construction details and flashing seams



FlintBond Trowel

Construction details such as endlaps and edge metal



FlintBond Brush

Small to large low-slope applications, for field membranes

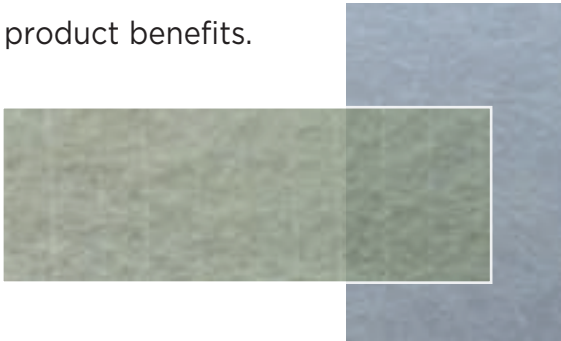
Product	Color	Packaging	Units/Pallet	Yield/Unit
Caulk	Black	10.1 oz.	576 (48 cartons)	24 linear ft (1/4" bead)
Trowel	Black	3G 5G	64 48	36-39 sq.ft. 60-65 sq.ft
Brush	Black	5G	48	330-500 sq ft

- Superior bond in field and laps
- Pliable in cold temperatures
- Excellent elongation/recovery
- Meets or exceeds ASTM D3019, Type III and ASTM D4479, Type I
- UL Listed
- Miami-Dade approved

Understanding Products and Systems

Low-slope roofing products come together to form a low-slope roofing system.

CertainTeed offers a range of roll good and liquid-applied products, which equate to hundreds of system configurations, specification and restoration options. In an effort to simplify system selection, this Product Selection Guide highlights our recommended systems by application, their value, and individual product benefits.



Asphaltic Products & Systems

Asphaltic products and systems have five main components for differentiation:

Material

CertainTeed offers non-modified and polymer-modified bituminous (asphalt-based) roll goods. Non-modified asphalt products are categorized as built-up roofing (BUR). These products are permeable so that hot asphalt can flow through the product as layers are “built up” on the roof, resulting in a relatively thick, watertight roof system. APP-modified products are manufactured with atactic polypropylene-infused asphalt which increases material strength and toughness, especially in high UV areas. SBS-modified products are manufactured with styrene-butadiene-styrene infused asphalt which increases flexibility, especially in low temperatures. Roof systems may consist of one or multiple materials depending on the desired performance, warranty, and cost.



Reinforcement

Reinforcement mats serve as the structure to asphaltic low-slope roll goods. They are saturated and coated with non-modified or modified asphalt. CertainTeed offers low-slope products with either fiberglass mat or polyester mat at varying thicknesses.

Fiberglass stands up well to heat and tension. Its inherently high melting point affords superior fire resistance when combined with a fire-retardant asphalt formulation. Fiberglass-reinforced products applied in hot asphalt retain excellent dimensional stability. Additionally, fiberglass has superior tensile strength. When combined with SBS-modified asphalt, the sheets will resist roof movement until the stress absorbed in the mat forces a break.

Polyester's predominant benefits are puncture resistance and high elongation. Polyester products handle rooftop foot traffic better. They can also cyclically absorb the strain of building movement and return back to their original dimension.

Additives

In addition to the modification of asphalt with APP or SBS polymers, CertainTeed blends certain products with additives to further enhance desired performance characteristics.

“FR” products, for example, are manufactured with proprietary additives to increase fire-resistance.



Warranty

The driving factor for system selection is most often warranty duration. CertainTeed offers system dependent, standard warranty durations between ten and twenty-five years. Additionally, Star Contractors can increase warranty durations 25% by engaging in an Integrity Maintenance Contract with their client.

CertainTeed offers three asphaltic membrane warranty options:

Asphaltic Membrane Limited Warranty on Materials

Integrity Roof System Limited Warranty

Integrity Roof System No Dollar Limit (NDL) Limited Warranty

See Product and System Guarantee section for more details.



Application

Low-slope bituminous products are installed utilizing one of **five** methods:

- Mechanical Fastening
- Mopped with Hot Asphalt
- Applied with Cold Adhesive
- Torch-Welded
- Self-Adhered

This Selection Guide categorizes products and systems by application method, though some systems utilize multiple methods and some products can be installed in a variety of ways. Each application method has benefits and limitations:

	Benefit	Limitation
Mechanical Fasteners	Fast installation, allows the product to move with the roof.	Penetrations allow water incursion; method is only feasible for base/anchor sheets.
Hot Asphalt	Proven, durable, cost-effective material.	Fumes/odor, burn-risk, cost and availability of trained labor and equipment.
Cold Adhesive	No kettle, minimal tools, very good adhesion when applied correctly.	Takes up to 60 days to cure, high fumes, relatively high price for material.
Torch	Faster than hot asphalt or cold adhesive, very good adhesion when applied correctly.	Risk of burn/fire; risk of improper application; cost and availability of trained labor, cost of propane.
Self-Adhered	Faster to train labor and install, very good adhesion when applied correctly. No fumes, no kettle, no burn/fire risk.	Not yet widely commercially accepted, application can be temperature dependent.

Selecting Base/Ply Sheets

**Select the base and/or ply sheet that best fits your needs.
The following should be considered:**

Why ply? A third layer, or more, of water protection exponentially decreases the leak risk of any roof system. That said, interply or ply sheets are not a required element of every low-slope bituminous roof system. Interply sheets are often specified in order to obtain an extended warranty durations or to comply with a fire or wind uplift rating.

Application

All base sheets can be mechanically fastened, if required, on a nailable roof deck. If the roof deck is not nailable (or insulation/coverboard has been installed and is now the surface to which the base sheet will be applied) the base sheet's application options require greater consideration. The charts on the following pages detail the range of base sheet application options and associated performance features.

All CertainTeed base sheets, with the exception of Flintlastic SA NailBase, can be utilized as interply (ply) sheets. Some contractors prefer to limit the number of materials on a project and, therefore, choose to install a base and ply layer of the same material. Other considerations are described below.

Building Fire/Wind Requirements

Projects requiring a specific fire or wind uplift resistance rating may call for a specific base or ply sheet to be incorporated into the system. Contact CertainTeed Commercial Roofing Technical Services at 800-396-8134 x2 for system selection assistance.

Cap Sheet Application

Another element to consider when selecting a base sheet is the cap sheet. CertainTeed offers one base sheet that must be correlated with specific cap sheet applications, as well as two cap sheets that must be correlated with specific base sheets:

Black Diamond® Base Sheet is a two-square, SBS-modified, fiberglass reinforced self-adhered base sheet, but requires heat to create an ideal short-term bond. As such, Black Diamond Base Sheet is only an option if the cap sheet is installed with hot asphalt or torch-applied. Black Diamond is a go-to base sheet for staged construction as it's namesake slag top surface can be left exposed for up to 6 months!

Flintlastic® SA Cap and Flintlastic SA Cap FR are one-square, SBS-modified, polyester (SA Cap) and fiberglass (SA Cap FR) reinforced, self-adhered cap sheets. The Flintlastic SA family is engineered to be installed together. As such, the selection of either cap sheet dictates that either Flintlastic SA NailBase (for nailable substrates), Flintlastic SA PlyBase (for non-nailable substrates), or Flintlastic SA MidPly (high performing base/ply for non-nailable substrates) will be utilized.

Selecting Cap Sheets

Select the cap sheet that best fits your needs.
The following should be considered:

Cap Sheet Application

Application method is frequently the primary driver of cap sheet product selection. The charts on the following pages detail which CertainTeed cap sheets can be installed with hot asphalt, cold adhesive, torch or factory applied self-adhesive and the performance features each application method delivers.

Building Fire/Wind Requirements

Projects requiring a specific fire or wind uplift resistance rating call for each element of the roof system to be prioritized, as the *system* is granted these performance approvals, not the singular component. CertainTeed has preapproved systems within various code and compliance bodies (i.e. UL, FM, Miami-Dade). Contact CertainTeed Commercial Roofing Technical Services at 800-396-8134 x2 for system selection assistance.

TIP: Flintlastic® SA Cap FR offers the speed, safety and fume-free benefits of self-adhering technology as well as the ability to obtain Class A Fire Resistance and Class IV Impact Resistance.

Cap Sheet Surfacing & Reflectivity

With the exception of Flintlastic STA and Flintlastic STA Plus, all of CertainTeed's cap sheets are surfaced with granules which provide UV protection and aesthetic appeal. CertainTeed low-slope granule blends are designed and manufactured with a true blend multi-granule mix to complement our most popular shingle colors, allowing for a uniform transition from steep to low-slope roofs on a single property.

CertainTeed does not stock all cap sheets in every color. Some colors are made-to-order or are not available depending on product. Please refer to the cap sheet color chart for product availability on page 26.




Most CertainTeed cap sheets are available with CoolStar®, highly reflective surfacing. CoolStar cap sheets are sold at a premium price.

Recommended Systems Self-Adhered

Why Self-Adhered?

No fumes. No flame. No disturbance.
For a fraction of the labor, proven.

Warranty Duration	SYSTEM ANATOMY				Class 4 Impact Resistance
	Insulation	Base	Interply	Cap	
CLASSIC SELF-ADHERED SYSTEMS					
12 Years	Optional	Flintlastic SA NailBase (MF)	—	Flintlastic SA Cap (CoolStar ²)	
15 Years	Optional	Flintlastic SA PlyBase ⁴ (SA)	—	Flintlastic SA Cap (CoolStar ²)	
20 Years	Optional	Flintlastic SA MidPly ⁴ (SA)	—	Flintlastic SA Cap (CoolStar ²)	
25 Years	Double layer, second layer adhered	Flintlastic SA MidPly (SA)	—	Flintlastic SA Cap (CoolStar ²)	

Warranty Duration	SYSTEM ANATOMY				
	Base (Loose Laid)	Base	Interply	Cap	
CLASS A/CLASS IV¹ IMPACT RESISTANT SELF-ADHERED SYSTEMS ON COMBUSTIBLE DECKS					
12 Years ¹	Glasbase™ Base Sheet	Flintlastic SA NailBase	—	Flintlastic SA Cap FR (CoolStar)	
15 Years ¹	Glasbase Base Sheet	Flintlastic SA NailBase	Flintlastic SA PlyBase	Flintlastic SA Cap FR (CoolStar)	
20 Years ¹	Glasbase Base Sheet	Flintlastic SA NailBase	Flintlastic SA MidPly	Flintlastic SA Cap FR (CoolStar)	

¹ Refer to www.certainteed.com/pro-center/roofing-approvals-compliances/for-listings

² CoolStar surfacing must be selected for highest solar reflectivity.

³ Performance assumes proper roof maintenance. See warranty for details.

⁴ When self-adhering a base layer over wood decks, priming is required. Self-adhering over wood decks is not permitted by code in Miami-Dade County; check your local building code. At the end of the roofing membrane's life, roofing membranes self-adhered over wood decks will require replacement of the deck. Self-adhering to resinous wood, such as pine, is prohibited. Roof systems with base sheets self-adhered directly to wood roof decks qualify for Integrity Roof System Limited Warranties only; Integrity Roof System ND Limited Warranties and Sure Start™ Plus 5-Star Warranties require the use of Flintlastic SA NailBase as a base sheet.

CertainTeed's Flintlastic® SA family of products afford contractors and building owners alike the benefits of a self-adhered system, with the performance of traditional bituminous applications. Flintlastic SA base and ply products have proprietary surface treatments engineered for strong, long-term bonds with watertight, high uplift resistance. Our self-adhered cap products come in a variety of true-blend colors that complement popular CertainTeed shingles, and a highly-reflective CoolStar® solution.

SYSTEM VALUE

**Class A
Fire Resistance**

- Leak protection³
- Freeze/Thaw performance
- Strong, dimensionally stable
- Pliable in cold weather
- Fire resistant¹
- Quick installation/reduced labor
- Resilient to high heat and UV rays
- Easy to repair
- Solar reflectivity²

- Good Performance
- Better Performance
- Best Performance

Details



Flintlastic SA NailBase, while not a self-adhered product, uses a proprietary top surface blue film that promotes an excellent inner-system bond with Flintlastic SA Cap.



True two-ply protection with a fully adhered base and cap.



Flintlastic SA MidPly is manufactured with 51% more asphalt than Flintlastic SA PlyBase and a heavy duty fiberglass reinforcement mat.



CertainTeed's best two-ply asset protection; fully adhered insulation eliminates thermal bridging through fasteners.




In all three systems, Glasbase Base Sheet is loose laid and gang fastened with Flintlastic SA NailBase to the roof deck. Warranty durations increase as watertight interply protection increases from none to Flintlastic SA PlyBase to Flintlastic SA MidPly.



Flintlastic SA MidPly is manufactured with 51% more asphalt than Flintlastic SA PlyBase and a heavy duty fiberglass reinforced mat.



Base/Ply Sheets Self-Adhered

Product	Application	Material	Thickness	Weight	Coverage	ASTM	Why Buy? ¹
Flintlastic® SA NailBase ²	MF	SBS/FG	1.5 mm (60 mils)	82 lbs.	200 sq ft	D4601, Type II	When utilizing Flintlastic SA Cap (FR) on nailable substrate.
Flintlastic SA PlyBase	SA	SBS/FG	1.5 mm (60 mils)	86 lbs.	200 sq ft	D4601, Type II, D1970	When utilizing Flintlastic SA Cap (FR) on approved substrates where direct adhesion is allowed and an unpenetrated membrane is desired.
Flintlastic SA MidPly	SA	SBS/FG	2.8 mm (110 mils)	63 lbs.	100 sq ft	D6163, Grade S, Type I, D1970	CertainTeed's unique, most robust self-adhering base for fully self-adhered systems. When utilizing Flintlastic SA Cap (FR) on approved substrates where direct adhesion is allowed and an unpenetrated membrane is desired. Value: a 25-year warranty with two plies
Black Diamond® Base Sheet	SA 	SBS/FG	1.4 mm (55 mils)	78 lbs.	200 sq ft	D4601, Type I, D1970	When utilizing torch or hot-applied cap sheet on approved substrates where direct adhesion is allowed and an unpenetrated membrane is desired. Value: expedited installation and up to 6 months exposure
Flintlastic Ultra Glass SA	SA	SBS/FG	3.0 mm (120 mils)	72 lbs.	100 sq ft	D6163, Grade S, Type I, D1970	CertainTeed's unique, most robust, self-adhering base when utilizing non-self-adhered cap sheet on approved substrates where direct adhesion is allowed and an unpenetrated membrane is desired. Value: expedited installation and extended warranty durations (100% more asphalt per square than Black Diamond Base Sheet and a 70% heavier fiberglass mat)

¹ In addition to product values listed above, base sheet selection will be influenced by CertainTeed system approvals for fire performance and/or wind uplift resistance.

² Flintlastic SA NailBase is listed as a self-adhering base sheet because it is only paired with Flintlastic SA systems, though NailBase is utilized as the mechanically fastened solution when the SA system is being installed on a nailable roof deck and an anchor sheet is desired (recommended).

Cap Sheets

Self-Adhered

Product	Application	Material	Thickness	Weight	Coverage	ASTM	Why Buy? ¹
Flintlastic® SA Cap	SA	SBS/POLY	4.0 mm (160 mils)	95 lbs.	100 sq ft	D6164, Grade G, Type I, D7505, D1970	Tried and true modified bitumen performance with significantly reduced labor over torch, hot asphalt or cold adhesive applications. No fumes, no kettle, no flame, no disruption.
Flintlastic SA Cap CoolStar®	SA	SBS/POLY	4.0 mm (160 mils)	93.5 lbs.	100 sq ft	D6164, Grade G, Type I, D7505	See “Flintlastic SA Cap” plus highly reflective. Reduces thermal heat gain, improving building comfort and reducing energy cost.
Flintlastic SA Cap FR	SA	SBS/FG	3.2 mm (125 mils)	88 lbs.	100 sq ft	D6163, Grade G, Type I, UL 2218 Class 4, D7530	See “Flintlastic SA Cap” plus fiberglass reinforcement mat allows for improved dimensional stability. Option to be incorporated in Class A ² fire rated system and achieve Class IV Impact Resistance.
Flintlastic SA Cap FR CoolStar	SA	SBS/FG	3.2 mm (125 mils)	88.5 lbs.	100 sq ft	D6163 Grade G, Type 1, UL 2218 Class 4, D7530	See “Flintlastic SA Cap FR” plus highly reflective. Reduces thermal heat gain, improving building comfort and reducing energy cost.

¹ In addition to product values listed above, cap sheet selection will be influenced by CertainTeed system approvals for fire performance and/or wind uplift resistance.

² Please visit iq.ulprospector.com and review CertainTeed's Roof Systems TGFU.R11656 for deck type and slope requirements.

Recommended Systems

Torch-APP

Why Torch? Because fire beats water.

MF Mechanically Fastened / **T** Torch
HA Hot Asphalt / **CA** Cold Adhesive / **SA** Self-Adhered

SYSTEM ANATOMY

Warranty Duration	Insulation	Base	Ply	Cap
12 Years	Optional	Glasbase™ Base Sheet (MF)	—	Flintlastic® STA with SMARTCOAT™
12 Years	Optional	All Weather/Empire® Base (MF)	—	Flintlastic GTA (CoolStar® ²)
15 Years, approved for re-cover	Optional	All Weather/Empire Base (MF)	—	Flintlastic STA Plus ⁵ , Flintlastic GTA-FR (CoolStar ²)
20 Years	Optional	Black Diamond® Base Sheet ¹ (SA)	—	Flintlastic STA Plus ⁵ , Flintlastic GTA-FR CoolStar ²
20 Years	Double layer, second layer adhered	Black Diamond Base Sheet (SA)	—	Flintlastic GTA (CoolStar ²)
25 Years	Double layer, second layer adhered	Flintlastic Ultra Glass SA (SA)	—	Flintlastic GTA-FR (CoolStar ²)
25 Years	Optional	All Weather/Empire Base Sheet (MF)	Flintlastic STA Plus	Flintlastic GTA (CoolStar ²)
25 Years	Double layer, second layer adhered	Black Diamond Base Sheet (SA)	Flintlastic STA	Flintlastic GTA-FR (CoolStar ²)

¹ When self-adhering a base layer over wood decks, priming is required. Self-adhering over wood decks is not permitted by code in Miami-Dade County; check your local building code. At the end of the roofing membrane's life, roofing membranes self-adhered over wood decks will require replacement of the deck. Self-adhering to resinous wood, such as pine, is prohibited. Roof systems with base sheets self-adhered directly to wood roof decks qualify for Integrity Roof System Limited Warranties only; Integrity Roof System NDL Limited Warranties and Sure Start™ Plus 5-Star Warranties require the use of Flintlastic SA NailBase as a base sheet.

² CoolStar surfacing must be selected for highest solar reflectivity. Premium pricing applies.

³ Performance assumes proper roof maintenance. See warranty for details.

⁴ iq.ulprospector.com, CertainTeed's Roof Systems TGFU.R11656, Fully Adhered; review listing for deck type and slope requirements.

⁵ Requires coating of SMARTCOAT™; proof of recoat required in year 10.

Torch-down roofing technology has only strengthened since first coming on the scene in the 1970's. CertainTeed modifies roofing asphalt with plasticizing atactic polypropylene (APP) polymers to enhance product toughness, especially in environments with elevated UV exposure. These APP modified bitumen products are staples of the torch roofing community, especially in the West and South. Ask any experienced roofing contractor, and they will tell you that a properly installed, high-quality torch system creates a multi-layered barrier that will protect a building for decades to come.

SYSTEM VALUE									
Leak protection ³	Freeze/Thaw Performance	Strong, dimensionally stable	Pliable in cold weather	Fire resistant ⁴	Quick installation/reduced labor	Resilient to high heat and UV rays	Easy to repair	Solar reflectivity ²	Details
									<ul style="list-style-type: none"> Good Performance Better Performance Best Performance
									Smooth-surfaced economical system; installs quickly with a granule-free, forgiving selvage edge.
									Economical, stable, resilient. For increased water protection during installation, upgrade to APP Base T (MF) and heat weld the lap joints.
									Tear off not in the budget? Resilient recover options.
									Black Diamond Base Sheet is lightweight, fast to apply, and can serve as a temporary roof for up to six months.
									The addition of two layers of insulation reduces roof system stress and increases building energy efficiency.
									Same labor savings as Black Diamond Base Sheet with 100% more asphalt and 70% heavier fiberglass reinforcement.
									Twenty-five year warranted system that does not require insulation- excellent option for combustible decks.
									Expedited base installation (self-adhered) and enhanced asset protection with three plies of staggered, watertight seams.

Recommended Systems

Torch-SBS

Why Torch? Because fire beats water.

MF Mechanically Fastened / **T** Torch
HA Hot Asphalt / **CA** Cold Adhesive / **SA** Self-Adhered

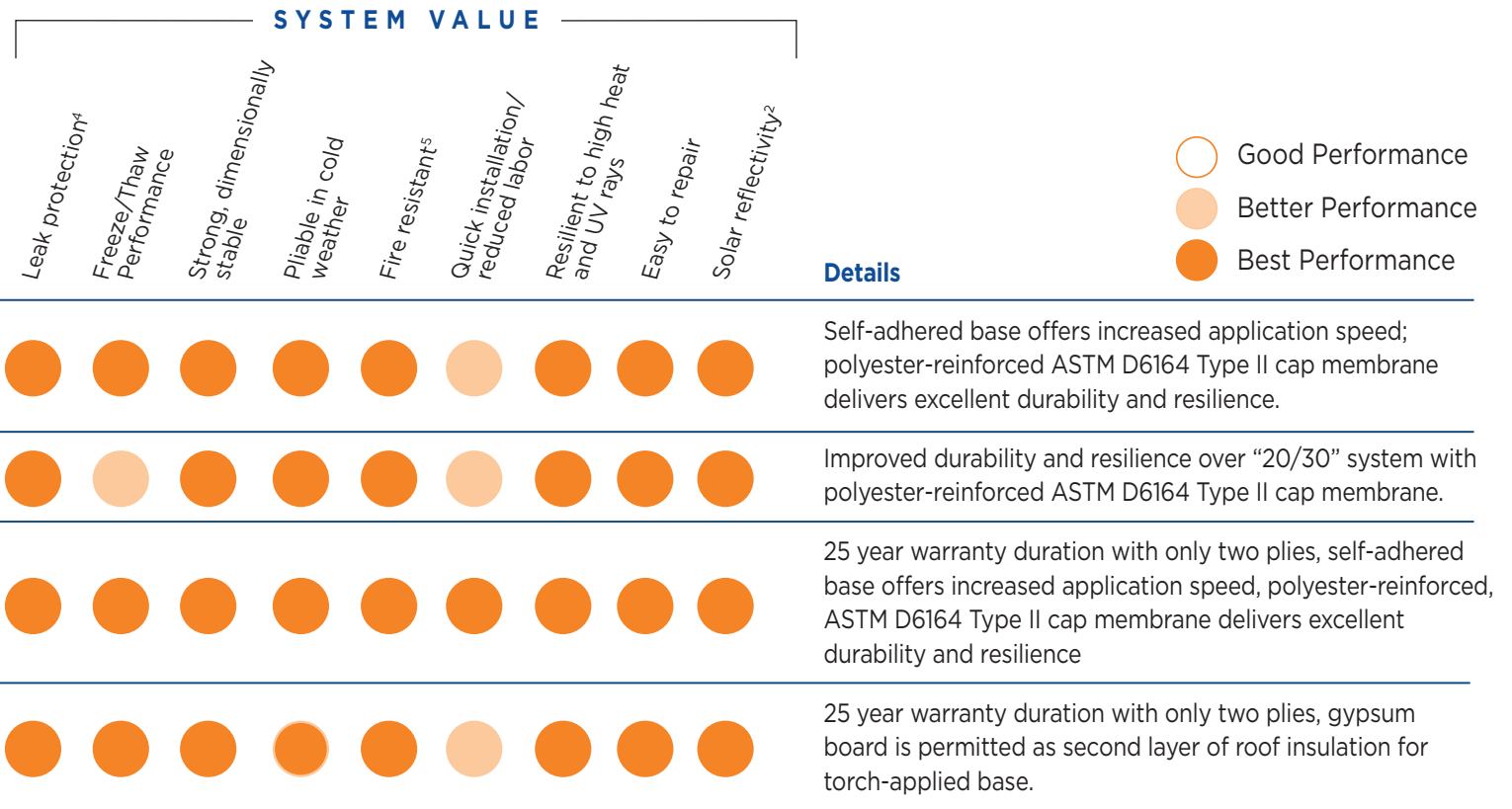
Warranty Duration	SYSTEM ANATOMY			
	Insulation	Base	Ply	Cap
20 Years	Optional	Black Diamond Base Sheet ^{1,3} (SA)	—	Flintlastic GTS-FR CoolStar ²
20 Years	Optional	Glasbase Base Sheet	Flintlastic Base 20 T	Flintlastic GTS-FR (CoolStar ²)
25 Years	Double layer, second layer adhered	Flintlastic Ultra Glass SA ¹	—	Flintlastic GTS-FR (CoolStar ²)
25 Years	Double layer, second layer adhered ⁶	Flintlastic Ultra Poly SMS (T/HA)	—	Flintlastic GTS-FR (CoolStar ²)

¹ For systems listed with torch-grade or self-adhered base plies without insulation, add a base sheet such as Glasbase Base Sheet or All Weather/Empire Base Sheet for nailable decks.

² CoolStar surfacing must be selected for highest solar reflectivity. Premium pricing applies.

³ When self-adhering a base layer over wood decks, priming is required. Self-adhering over wood decks is not permitted by code in Miami-Dade County; check your local building code. At the end of the roofing membrane's life, roofing membranes self-adhered over wood decks will require replacement of the deck. Self-adhering to resinous wood, such as pine, is prohibited. Roof systems with base sheets self-adhered directly to wood roof decks qualify for Integrity Roof System Limited Warranties only; Integrity Roof System ND Limited Warranties and Sure Start™ Plus 5-Star Warranties require the use of Flintlastic SA NailBase as a base sheet.

Torch-down roofing technology has only strengthened since first coming on the scene in the 1970's. CertainTeed modifies roofing asphalt with rubberizing styrene butadiene styrene (SBS) polymers to enhance product resilience and pliability, especially in cold temperatures. These SBS-modified bitumen products are staples of the torch roofing community, especially in northern regions. Ask any experienced roofing contractor, and they will tell you that a properly installed, high-quality torch system creates a multi-layered barrier that will protect a building for decades to come.



⁴ Performance assumes proper roof maintenance. See warranty for details.

⁵ iq.ulprospector.com, CertainTeed's Roof Systems TGFU.R11656, Fully Adhered; review listing for deck type and slope requirements.

⁶ If base sheet is torch-applied. Second or third layer of insulation must be gypsum board.

Base/Ply Sheets Torch

Product	Application	Material	Thickness	Weight	Coverage	ASTM	Why Buy? ¹
Flintlastic APP Base T	T	APP/FG	2.0 mm (80 mils)	97 lbs.	200 sq ft	D6509	Economical option for strong, homogenous (APP to APP) system when utilizing an APP-modified cap sheet.
Flintlastic STA	T	APP/POLY	3.8 mm (150 mils)	86 lbs.	100 sq ft	D6222, Grade S, Type I	Utilizing APP-modified cap sheet, value benefit of strong, homogenous (APP to APP) bond and extended warranties.
Flintlastic STA Plus	T	APP/POLY	4.5 mm (177 mils)	98 lbs.	100 sq ft	D6222, Grade S, Type I	See "Flintlastic STA" plus premium product allows for extended warranties.
Flintlastic Base 20 T	MF/T	SBS/FG	3.0 mm (120 mils)	80 lbs.	100 sq ft	D4601, Type II, D6163, Grade S, Type I	Offers the strength of fiberglass reinforcement and the pliability of SBS-modified asphalt.
Flintlastic Ultra Poly SMS	MF/CA HA/T	SBS/POLY	3.7 mm (145 mils)	89 lbs.	100 sq ft	D6164 Grade S, Type I	CertainTeed's most robust base ply; combines high performance, extra-tough, stress-resistant polyester mat with pliable SBS-modified asphalt; pairs well with any cap sheet and offers extended warranties.

For details on additional base sheets utilized in torch systems, please refer to page 19.

¹*In addition to product values listed above, base sheet selection will be influenced by CertainTeed system approvals for fire performance and/or wind uplift resistance.*

Cap Sheets Torch

Product	Application	Material	Thickness	Weight	Coverage	ASTM	Why Buy? ¹
Flintlastic GTA	T	APP/POLY	4.0 mm (160 mils)	103 lbs.	100 sq ft	D6222, Grade G, Type I	Workhorse granule-surfaced, torch-grade, APP-modified cap sheet; combines strength and UV stability of APP-modified asphalt with the stress-resistance of its polyester reinforcement mat.
Flintlastic GTA CoolStar®	T	APP/POLY	4.0 mm (160 mils)	93 lbs.	100 sq ft	D6222, Grade G, Type I	See “Flintlastic GTA” plus highly reflective, granules. Reduce thermal heat gain, improving building comfort and reducing energy cost.
Flintlastic® GTA-FR	T	APP/POLY	4.0 mm (160 mils)	103 lbs.	100 sq ft	D6222, Grade G, Type I	See “Flintlastic GTA”; fire retardant additives enables incorporation in Class A ² fire rated system.
Flintlastic GTA-FR CoolStar®	T	APP/POLY	4.0 mm (160 mils)	98 lbs.	100 sq ft	D6222, Grade G, Type I	See “Flintlastic GTA-FR” plus highly reflective. Reduces thermal heat gain, improving building comfort and reducing energy cost.
Flintlastic STA	T	APP/POLY	3.8 mm (150 mils)	86 lbs.	100 sq ft	D6222, Grade S, Type I	Smooth surfaced, torch grade, APP-modified cap sheet (or base/ply); combines strength and UV stability of APP-modified asphalt with the stress-resilience of its polyester reinforced mat; installs quickly with a granule-free, forgiving selvage edge.
Flintlastic STA Plus	T	APP/POLY	4.5 mm (177 mils)	98 lbs.	100 sq ft	D6222, Grade S, Type I	See “Flintlastic STA” plus premium product allows for extended warranties.
Flintlastic GTS-FR	T	SBS/POLY	4.0 mm (160 mils)	103 lbs.	100 sq ft	D6164, Grade G, Type II	Granule surfaced, torch-grade SBS-modified cap sheet; CertainTeed's most robust (Type II) torch-grade cap sheet with a high-performance, extra-tough, stress-resistant (excellent elongation) polyester mat. Fire retardant additives enables incorporation in Class A ² fire-rated system.
Flintlastic GTS-FR CoolStar	T	SBS/POLY	4.0 mm (160 mils)	103.5 lbs.	100 sq ft	D6164, Grade G, Type II	See “Flintlastic GTS-FR” plus highly reflective. Reduces thermal heat gain, improving building comfort and reducing energy cost.

¹ In addition to product values listed above, cap sheet selection will be influenced by CertainTeed system approvals for fire performance and/or wind uplift resistance.

² Please visit www.ul.com/database and review CertainTeed's Roof Systems TGFU.R11656 for deck type and slope requirements.

Recommended Systems

Hot/Cold

Why Hot/Cold? Because it's tried and true.

System Name	SYSTEM ANATOMY			
	Insulation	Base	Ply	Cap
12 Years	Optional	All Weather Empire Base Sheet (MF)	—	Flintlastic GMS
15 Years	Optional	Black Diamond® Base Sheet (SA) ²	—	Flintlastic GMS
20 Years	Optional	Black Diamond Base Sheet (SA) ²	—	Flintlastic Premium FR-P CoolStar ¹
20 Years	Optional	Glasbase Base Sheet (MF)	Flintglas Ply 4 (2 layers, HA)	Flintlastic GMS
20 Years	Double layer, second layer adhered	Flintlastic Base 20 (HA/CA)	—	Flintlastic FR-P
25 Years	Double layer, second layer adhered	Flintlastic Ultra Glass SA (SA)	—	Flintlastic Premium FR-P (CoolStar ¹)
25 Years	Double layer, second layer adhered	Flintlastic Ultra Poly SMS (HA/CA/T)	—	Flintlastic Premium FR-P (CoolStar ¹)




¹ CoolStar surfacing must be selected for highest solar reflectivity.

² When self-adhering a base layer over wood decks, priming is required. Self-adhering over wood decks is not permitted by code in Miami-Dade County; check your local building code. At the end of the roofing membrane's life, roofing membranes self-adhered over wood decks will require replacement of the deck. Self-adhering to resinous wood, such as pine, is prohibited. Roof systems with base sheets self-adhered directly to wood roof decks qualify for Integrity Roof System Limited Warranties only; Integrity Roof System ND Limited Warranties and Sure Start™ Plus 5-Star Warranties require the use of Flintlastic SA NailBase as a base sheet.

Face it - some old dogs don't need new tricks, and CertainTeed hot asphalt and cold adhesive low-slope roof systems have consistently delivered on the promise of protection for generations. These systems offer multiple watertight layers with unparalleled bond strength. So when the risk of a roof leak means more than just a maintenance nuisance, trust what works and spend the time to install peace-of-mind.

SYSTEM VALUE

- Leak protection⁴
- Freeze/Thaw Performance
- Strong, dimensionally stable
- Pliable in cold weather
- Fire resistant³
- Quick installation/reduced labor
- Resilient to high heat and UV rays
- Easy to repair
- Solar reflectivity¹

-  Good Performance
-  Better Performance
-  Best Performance

Details



Economical, stable, resilient. With its ASTM D6757 rating, All Weather is an inexpensive way to get a roof “in the dry” and its lightly SBS-modified asphalt allows for a more uniform application than a non-modified base. Increase warranty to 15 years when base is hot applied.



Black Diamond® is lightweight and fast to apply, and can serve as a temporary roof for up to six months. Increase warranty to 20 years by adding two layers of FlintBoard® insulation.



Self-adhered base offers increased application speed; polyester-reinforced ASTM D6164 Type II cap membrane delivers excellent durability and resilience.



This three-ply system combines highly economical, non-modified base and ply layers with CertainTeed's workhorse hot/cold cap sheet.



This classic system offers the strength and stability of fiberglass reinforcement with the pliability and stress resilience of polyester asphalt. 20-year warranty requires the use of FlintBond® for cold adhesive applications.



This system offers excellent two-ply asset protection and reduced labor by combining our highest performing, self-adhering base ply with our most resilient, ASTM D6164 Type II cap sheet.



This system offers the best two-ply asset protection with CertainTeed's most robust (60 pounds of modified asphalt per square) and versatile (can be mechanically fastened, hot applied, cold applied or torched) base sheet and our most resilient, ASTM D6164 Type II cap sheet.

³ Please visit iq.ulprospector.com and review CertainTeed's Roof Systems TGFU.R11656 for deck type and slope requirements.

⁴ Performance assumes proper roof maintenance. See warranty for details.

Base/Ply Sheets

Hot/Cold

Product	Application	Material	Thickness	Weight	Coverage	ASTM	Why Buy? ¹
Glasbase™ Base Sheet	MF/HA/CA	BUR/FG	1.0 mm (40 mils)	75 lbs.	300 sq ft	D4601, Type II, UL G2	Economical, non-modified, permeable base sheet.
All Weather/ Empire® Base Sheet	MF/HA/CA	BUR- SBS/FG	1.3 mm (51 mils)	70 lbs.	200 sq ft	D4601, Type II, D6757	Economical, lightly SBS-modified non-permeable base sheet to allow for more uniform application than non-modified sheets; most economical “dry-in” option.
Flintlastic® Poly SMS	MF/HA/CA	SBS/POLY	2.0 mm (79 mils)	89 lbs.	200 sq ft	D4601, Type II	Most economical polyester-reinforced base sheet; both SBS-modified asphalt and polyester reinforcement mats are valued for pliability and stress resilience.
Flintlastic Base 20	MF/HA/CA	SBS/FG	2.3 mm (91 mils)	88 lbs.	150 sq ft	D6163, Grade S, Type I, D4601, Type II	Offers the strength of fiberglass reinforcement with the pliability of SBS-modified asphalt.
Flintlastic Ultra Poly SMS	MF/HA CA/T	SBS/POLY	3.7 mm (145 mils)	89 lbs.	100 sq ft	D6164, Type I	CertainTeed’s most robust base ply; combines high performance, extra-tough, stress-resistant polyester mat with pliable SBS-modified asphalt; pairs well with any cap sheet and offers extended warranties.
Flintglas® Ply 4	HA	BUR/FG	0.6 mm (24 mils)	36 lbs.	500 sq ft	D2174, Type IV, UL G1	Economical, non-modified, permeable ply sheet.

¹ In addition to product values listed above, base sheet selection will be influenced by CertainTeed system approvals for fire performance and/or wind uplift resistance.

Cap Sheets

Hot/Cold

Product	Application	Material	Thickness	Weight	Coverage	ASTM	Why Buy? ¹
Flintlastic® GMS	HA/CA	SBS/POLY	3.7 mm (145 mils)	93 lbs.	100 sq ft	D6164, Grade G, Type I	Workhorse granule surfaced, mop-grade, SBS-modified cap sheet; combination of stress-resistant polyester reinforcement mat and pliable SBS-modified asphalt delivers high resistance to strain caused by building movement
Flintlastic FR-P	HA/CA	SBS/POLY	4.2 mm (165 mils)	100 lbs.	100 sq ft	D6164, Grade G, Type I	See “Flintlastic GMS” with additional SBS-modified asphalt and fire retardant additives enables incorporation in Class A ² fire-rated system.
Flintlastic Premium FR-P	HA/CA	SBS/POLY	4.2 mm (165 mils)	100 lbs.	100 sq ft	D6164, Grade G, Type II	See “Flintlastic FR-P” with high performance, extra-tough, stress-resistant polyester mat to allow for “type II” ASTM performance classification.
Flintlastic Premium FR-P CoolStar	HA/CA	SBS/POLY	4.2 mm (165 mils)	99.5 lbs.	100 sq ft	D6164, Grade G, Type II	See “Flintlastic Premium FR-P” plus highly reflective. Reduces thermal heat gain, improving building comfort and reducing energy cost.
Flintglas® MS Cap Sheet	HA/CA	BUR/FG	3.0 mm (120 mils)	77 lbs.	100 sq ft	D3909, D4897 UL G3	Economic cap solution for built-up roofing systems, reduces labor when compared to flood coat and gravel. May also be inverted and used as a venting base sheet.
Flintglas MS Cap Sheet CoolStar	HA/CA	BUR/FG	3.0 mm (120 mils)	74 lbs.	100 sq ft	D3909 D4897	See “Flintlastic MS Cap Sheet” plus highly reflective. Reduces thermal heat gain, improving building comfort and reducing energy cost.

¹ In addition to product values listed above, cap sheet selection will be influenced by CertainTeed system approvals for fire performance and/or wind uplift resistance.

² Please visit iq.ulprospector.com and review CertainTeed's Roof Systems TGFU.R11656 for deck type and slope requirements.

Granulated Cap Colors

	TORCH			SA CA
	GTA	GTA-FR	GTS-FR	
WHITE	S	S	S	S
COOLSTAR®	S	S	M ²	M ²
BURNT SIENNA	S			S
MOIRÉ BLACK	S	S ¹		S
TERRA COTTA				S
RESAWN SHAKE	S			S
WEATHERED WOOD	S			S
BUFF				S
HUNTER GREEN				S
COLONIAL SLATE	S			S
HEATHER BLEND	S			S
RED				S
MOJAVE TAN				S

¹ Only stocked in California ² Minimum order 160 rolls (8 pallets)

S = Indicates stocked, at minimum, in Little Rock, Arkansas manufacturing plant; check CertainTeed Plant Catalogs for additional stocking locations; any product stocked in Little Rock is available nationwide

M = Made to order

SELF-ADHERED		HOT/COLD			
Cap	SA Cap FR	MS Cap	GMS	FR-P	Premium FR-P
	S	S	S	S	S
	M ²	S ¹			M ²
	S				
	S	S ¹	S		
	S		S		
	S		S		
	S				
	S				
	S				
	S				



All granule colors available in 5G, 50 lb. pails for aesthetic surfacing over asphalt bleed out or liquid-applied flashing.

FlintSeal®

Plastic Cement

FlintBond®

Flashing Adhesive & Repair



Color	Packaging	Units/Pallet	Yield/Unit
Black	3G	64	36-39 sq. ft.
	5G	48	60-65 sq. ft.

- All weather asphaltic-based plastic cement that is engineered to patch splits, seams and cracks in roof surfaces such as mineral surfaced cap sheet, smooth surface asphalt roofs, composition shingle, metal roofs and spudded gravel
- Also repairs areas around chimneys, skylights, vent pipes, gravel guards, down spouts, splits in concrete, and expansion joints on roofs
- Meets ASTM D4586 and ASTM D3409

Color	Packaging	Units/Pallet	Yield/Unit
Black	10.1 oz. (12/carton)	576 (48 cartons)	24 linear ft. (1/4" bead)
Black	3G	64	36-39 sq. ft.
	5G	48	60-65 sq. ft.

- All weather, highly resilient SBS-modified mastic will adhere SBS-modified or repair modified asphalt membranes in any climate (will bond underwater)
- High-heat resistant, will not slip, sag or mudcrack
- Repairs asphaltic membranes, concrete and control joints

SMARTCOAT™ 365

Silicone Repair Mastic



SmartFlash® ONE

Liquid-Applied Flashing & Repair



Color	Packaging	Units/Pallet	Yield/Unit
White	2G	88	24-26 sq. ft. (1/8" thick)

- Highly elastic silicone mastic engineered to seal deficiencies in most roof surfaces
- Apply in dry or wet conditions (will bond under water)
- Repairs asphaltic or single-ply membranes, asphaltic shingles, metal roofs and previously coated roofs

Color	Packaging	Units/Pallet	Yield/Unit ¹
	Flash Pack	36	17 sq. ft.
Brown	1G (2/carton)	120 (60 cartons)	17 sq. ft.
	5G	36	83 sq. ft.

- One-part asphaltic urethane resin
- 10-year leak-proof warranty on repairs
- Repairs asphaltic membranes and asphaltic shingles²

¹ Assumes 3-course flashing with a finish coat.

² Please see Technical Data Sheet for comprehensive list of approved substrates.

SmartFlash® ONE

If you work with asphaltic membranes or shingles, SmartFlash ONE should be in your yard.



SmartFlash ONE is a one-part, self-terminating, UV stable polyurethane bituminous resin for new flashings or repairs. Engineered for an excellent bond to bituminous membranes, concrete, wood, sanded/abraded rigid PVC pipe and metal¹.

Repairs can be a highly profitable business, but if you're not charging for the tools and accessories you're using, you are leaving money on the table. The SmartFlash ONE Flash pack includes everything you need to flash or repair 17 square feet: 1G resin, 6" x 36' polyester, 4" roller, two extra naps, 2" brush, scissors, two pairs of latex gloves, 2" x 180" masking tape, and can be invoiced as a single line item. All this with the added benefit of always having what you need to finish the job.

Product	Color	Packaging	Units/Pallet	Yield/Unit (sq ft)
SmartFlash ONE Flash Pack	Brown	5G (1G resin)	36	17 ²
SmartFlash ONE 1G	Brown	1G, sold 2/carton	120	17 ² (32 per carton)
SmartFlash ONE 5G	Brown	5G	36	83 ²
SMARTFAB Polyester Reinforcement	White	4", 6", 12", 20" rolls sold 5/carton	See SMARTCOAT Products for details by width	

¹ See Technical Data Sheet for precautions when adhering to metal.

² Assumes 3-course flashing with a finish coat.

Highly flammable liquid and vapor. Keep away from heat/sparks/open flames/hot surfaces. Store away from flame or heat. Store in temperature range of 32-95°F (0 to 35°C).

Why Use for Flashing Details?

Maintenance-free waterproofing, up to 20 years.

- **Self-Terminating:** No lead, no additional components
- **Versatile:** Conformation to almost any penetration shape
- **Efficient:** One-part resin, no primer, no roof-top measuring or mixing, no limitation to working time, no waste - unused resin can be stored and used on a future project
- **Warranted:** CertainTeed Integrity Roof™ System (NDL) Limited Warranties apply to SmartFlash® ONE roof system flashings, up to 20 years



Why Use for Repairs?

UV-stable, quick, permanent repairs.

- **Versatile:** Repair cracks in asphalt membrane/shingle or damaged/corroded flashings
- **Visually Appealing:** Broadcast granules into wet resin to match existing roof surfacing *only if desired*
- **Efficient:** Easily resealed and stored on repair trucks for use when needed
- **Warranted:** Backed by 10-year waterproof repair warranty



FlintEdge®

Coping and Fascia



Product

FlintEdge Coping & Coping+

Description

The coping utilizes a metal chair that functions as both a gutter chair (with its raised ribs) and as an internal splice plate in the same color and finish as the coping cap. Internal metal chair drainage system eliminates caulked joints. Coping+ includes 16-gauge galvanized steel cleat. FM-approved, Class 1-180.



FlintEdge Fascia ET

Extruded aluminum retainer featuring a wide base flange that clamps BUR or modified bitumen plies like a termination bar to help prevent leaks and blow-offs.



FlintEdge Fascia GS

Simple two-piece design featuring a formed gravel stop fascia and a continuous galvanized steel anchor clip with a concealed splice plate at the joints.



FlintEdge Fascia GG

A three-part system consisting of a continuous galvanized steel water dam, exterior fascia and continuous galvanized steel retainer to lock the assembly together. Grips the roofing plies without the need for exposed fasteners.

Water Control

FlintEdge Scupper

FlintEdge Conductor Head

Water control accessories channel water off the roof for positive, proper drainage. Accessories are available in a variety of materials, thicknesses and colors and all can be customized.

Expansion Joints

FlintEdge Roof to Roof

FlintEdge Roof to Wall

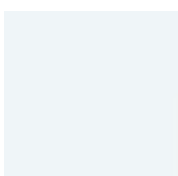
Sheet metal construction offers maximum protection and versatility. Snap-on cap for ease of installation and improved aesthetic appearance.

Edge Metal products are available in 31 different colors and finishes. For complete color options, please see the Edge Metal brochure or www.certainteed.com.

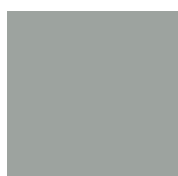
Our most popular colors are:



Ascot White



Bone White



Dove Gray



Medium Bronze



Sandstone



Shale Gray



Statuary Bronze

Colors shown are representative of the prefinished KYNAR® colors but not exact matches. Actual metal color chips are available upon request and should be used for final color approval.

SMARTCOAT™

At a Glance



Why tear off when you can restore?

Roof tear off is expensive, laborious and adds tremendous amounts of waste into landfills. In some cases, additional, significant expense is required to bring the new roof system into code compliance. Roof restoration can extend the life of the existing roof for decades. CertainTeed offers a comprehensive line of silicone or acrylic-based restoration systems consisting of roof wash, surface prep products (substrate dependent, only used as needed), mastics/sealants to ensure the roof is watertight (mastics are applied with and without reinforcement depending on the condition of the existing roof detail), and, finally, a coating is applied to form a seamless, monolithic, protective membrane.

CLEAN
PREP (only as needed)
SEAL
COAT
REINFORCE
PROTECT

100 Roof Wash

Nothing sticks to dirt. Help your customers avoid call backs by starting with a clean slate.

200 Series Primer/Bleed Blocker

#200 Bleed Blocker prevents staining on asphaltic roof restorations; #210 Universal Primer is engineered to optimize adhesion across a variety of substrates when needed.

300 Series Mastic/Sealant

If your mastics don't have the muscle to permanently seal leaks, your restoration project will miss the mark.

400 Series Coatings

SMARTCOAT coatings are high-solids, direct-bond optimized formulations. And, yes, you can recoat our silicone.

500 Series Stitchbond Polyester

Reinforce seams, details and acrylic roof systems.

600 Traffic Coat Series

Protects your roof under light or heavy foot traffic.



Can every roof be restored?

Unfortunately, no. Roofs should be inspected to determine if they are good candidates for restoration. The primary determining factor is the presence and amount of entrenched water in the current system and its root cause. A good rule of thumb is if less than 20% of the roof requires repairs to be made sound, clean and dry, restoration is possible.

SMARTCOAT™ Products

Product	Color	Packaging	Units/Pallet	Coverage (sq ft) ²
CLEAN/PREP				
100 Roof Wash *Sold 4/Carton	Blue	1G (4/carton)	144 (36 ¹)	4,000-12,000
200 Bleed Blocker	Light Grey	5G	48	333-500
210 Universal Primer	Dark Grey	5G	48	333-500
220 Asphalt Emulsion	Brown	5G	48	125
		55G	4	1,375
		275G	1	6,875
SEAL				
300 Non-Fibered Acrylic Mastic	White	3.5G	48	42-46
301 Fibered Acrylic Mastic	White	3.5G	48	42-46
350 Silicone Mastic	White	2G	88	24-46
365 Silicone Repair Mastic	White	2G	88	24-46
370 UltraSeal	Grey	10.1 oz. (24/carton)	1,080 (45)	25 LF/tube
COAT				
400 High Performance Acrylic Coating <i>Meets ASTM D6083, Type I</i>	White, Tan	5G	48	63-167
		55G	4	688-1,833
		275G	1	3,438-9,167
401 High Solids Acrylic Coating	White, Tan	5G	48	63-167
		55G	4	688-1,833
		275G	1	3,438-9,167
405 Quick Set Acrylic Coating	White	5G	48	63-167
		55G	4	688-1,833
		275G	1	3,438-9,167
420 Aluminum Coating	Silver	5G	48	333-500
450 High Solids Silicone Coating	Light Gray	5G	48	200-333
	Dark Gray	55G	4	2,200-3,667
	Santa Fe Tan			
	White, Black			
REINFORCE				
SMARTFAB 500 Polyester Reinforcement <i>*All sold 5/carton</i>	White	4"	180 (36)	100
		6"	180 (36)	150
		12"	120 (24)	300
		20"	90 (18)	500
PROTECT				
600 Acrylic Traffic Coat	Yellow, Tan, Grey	5G	48	250
650 Silicone Traffic Coat	Yellow	5G	48	500

¹ Carton Quantity

² Coverage assumes range of approved specified application rates, some warranty duration dependent.

SMARTCOAT™

Silicone versus Acrylic

Silicone coatings are primarily valued for their high solids chemistry.

A coating with 95% solids will remain relatively the same thickness from application to cure whereas a coating with only 55% solids, will be approximately half as thick once cured. This correlates to higher warranty durations with less material or labor with silicone.

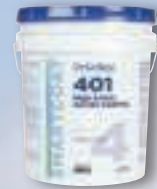
Acrylic coatings are less expensive per gallon- for 10-year warranty durations acrylic restoration may be more cost effective.

Popular Restoration Systems & Warranties

Once the existing roof is properly prepared and watertight, coatings are applied in varying gallons per square, depending on the desired warranty duration.



SILICONE



ACRYLIC

	SILICONE	ACRYLIC
Chemistry	Inorganic	Organic
Ponding Water	Stable	Unstable
Application Temperature	40°F	50°F
Cure Method	Moisture	Evaporation
Rain Resistance/Seasonality	High/Long	Low/Shorter
Material Cost (per gallon)	More	Less
Application	Roller or Spray Rig	Roller or Spray Rig
Solids by Volume	95% ±2	50-55%
Labor (20-year warranty)	Less	More
Reinforced (field)	Generally, No	Not Always but Common
Slippery Surface	Yes	Yes, less
Reflectivity	High	High
Dirty Surface (over time)	More	Less

Warranty Duration	Existing Roof	Prep Layer	Coating	Layer 1	Layer 2	Layer 3
10	Membrane ¹	#200 recommended ²	#400/401/405 Acrylic	1.5G	1.5G	—
15	Membrane ¹	#200 required ²	#450 Silicone	2G	—	—
20	Metal	#210 (only if needed)	#400 Acrylic	2G	1.5G	1.5G
20	Membrane ¹	#200 required ²	#450 Silicone	2.5G	—	—

¹ Membrane includes asphaltic or single-ply

² #200 would only be used on existing asphaltic roofs

PRODUCTS & SYSTEM WARRANTIES

CertainTeed offers system dependent, asphaltic membrane limited warranty durations between ten and twenty-five years. Additionally, contractors can increase warranty durations 25% by engaging in an Integrity Maintenance Agreement with their client.

Asphaltic Membrane Limited Warranties

	Limited Warranty on Materials	Integrity Roof System™ Limited Warranty	Integrity Roof System NDL Limited Warranty
Contractor Requirements	None	None	Silver or Gold Star Credential
Coverage	Warranty covers leaks caused by manufacturer defects in CertainTeed cap sheets only	Warranty covers leaks caused by manufacturer defects in CertainTeed products only	Warranty covers leaks caused by manufacturer defects in CertainTeed products and/or approved partner-brands and/or workmanship
Obtain	https://www.ctndl.com/sf/warranty.asp		Application submitted through www.ctndl.com

Asphaltic and Accessory Stand-alone Warranties

	Enhanced Wind Warranty Endorsement	FlintBoard® Limited Warranty	SmartFlash® ONE Limited Warranty	FlintSeal® Plastic Cement Limited Warranty
Contractor Requirements	Silver or Gold Star Credential	—	—	—
Coverage	Warranty covers roof system detachment in accordance to primary CertainTeed Warranty	Warranty covers thermal insulation R-value in FlintBoard products	Warranty covers leaks caused by manufacturer defects in CertainTeed products only	Warranty covers manufacturer defects in FlintSeal
Obtain	Application submitted through Technical Services	https://www.ctndl.com/sf/warranty.asp		

SMARTCOAT™ Limited Warranties

	SMARTCOAT Limited Warranty on Materials	CertainTeed Integrity Roof System Limited Warranty, SMARTCOAT Extension	SMARTCOAT No Dollar Limited (NDL) Limited Warranty	CertainTeed Integrity Roof System NDL Limited Warranty, SMARTCOAT Extension
Contractor Requirements	None	SMARTCOAT Approved Applicator		
Coverage	Warranty covers manufacturing defects in SMARTCOAT products only	Warranty covers leaks caused by manufacturing defects in a preexisting CertainTeed low-slope roof and SMARTCOAT products	Warranty covers leaks caused by manufacturing defects in SMARTCOAT products and/or workmanship	Warranty covers leaks caused by manufacturing defects in a preexisting CertainTeed low-slope roof and SMARTCOAT products and/or workmanship
Obtain	https://www.ctndl.com/sf/warranty.asp	Application submitted through Technical Services		

Warranty Fees

There are no fees associated with a Limited Warranty on Materials, an Integrity Roof System™ Limited Warranty, a SMARTCOAT™ Limited Warranty on Materials, a CertainTeed Integrity Roof System™ Limited Warranty, SMARTCOAT Extension, a FlintBoard® Limited Warranty, a FlintSeal® Limited Warranty or a SmartFlash® ONE Limited Warranty.



Scan for access to warranty application/registration links, warranty samples and Commercial Roof Maintenance Program details

Integrity Roof System NDL Limited Warranties & SMARTCOAT NDL Limited Warranties

Subject to CertainTeed published requirements, NDL Warranties are available to CertainTeed-approved contractors based on the following fee schedule:

Built-Up Roofing (Non-Modified) Specifications		Modified Bitumen Roofing Specifications			SMARTCOAT Specifications	
Warranty Duration	Warranty Fee	Warranty Duration	Warranty Fee	Warranty Duration	Warranty Fee Acrylic	Silicone
10 Years	\$6.00 per square (\$600 minimum)	10 & 12 Years	\$4.00 per square (\$400 minimum)	10 Years	\$7.00 per square (\$1,000 minimum)	\$10.00 per square (\$1,000 minimum)
15 Years	\$10.00 per square (\$1,000 minimum)	15 Years	\$7.50 per square (\$750 minimum)	15 Years	\$9.00 per square (\$1,500 minimum)	\$12.00 per square (\$1,500 minimum)
20 Years	\$15.00 per square (\$1,500 minimum)	20 Years	\$12.50 per square (\$1,250 minimum)	20 Years	\$11.00 per square (\$2,000 minimum)	\$15.00 per square (\$2,000 minimum)
N/A	N/A	25 years*	\$15.00 per square (\$1,500 minimum)	N/A	N/A	N/A

* Subject to additional requirements. Contact Tech Services 1-800-396-8134 x2.
NDL Warranties are fully transferrable subject to \$500 fee and inspection, subject to change at any time.

Enhanced Wind Warranty Fee Schedule

55 - 80 mph	\$1.00 per square
81 - 90 mph	\$2.00 per square
91 - 100 mph	\$4.00 per square
101 - 110 mph	\$8.00 per square
111 - 120 mph	\$10.00 per square
121 - 135 mph	\$15.00 per square

Wind endorsement fee schedule for NDL, minimum 100 sq. Contact Tech Services 1-800-396-8134 x2.

If Professional Engineering Stamp is required, additional \$1,000 fee.

NOTE: All roofs require regular inspections and periodic maintenance to achieve their expected life. Roofs should be expected at least twice yearly, in the spring and fall. Additionally, all roofs should be inspected after any severe weather or storms. Failure to properly maintain the roof system voids all CertainTeed Commercial Roofing Limited Warranties.

With a **portfolio of commercial and residential roofing products** and quality standards that lead the industry, you can rest easy knowing CertainTeed has you covered.



Residential



Residential Accessories



Solar



Commercial



Commercial Accessories



Liquid-Applied Roofing



CertainTeed

CEILING • DECKING • FENCE • GYPSUM • INSULATION • RAILING • ROOFING • SIDING • TRIM
20 Moores Road, Malvern, PA 19355 Professional: 800-233-8990 Consumer: 800-782-8777 certainteed.com