



PRODUCT SELECTION GUIDE

CertainTeed Low-Slope Roofing



CertainTeed
SAINT-GOBAIN

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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-modified and APP-modified systems, complemented by comprehensive low-slope accessories including primers, adhesives, insulation, fasteners, coatings, liquid flashing and edge metal. You can recommend the right solution for your customer based on their performance needs.



Understanding Products and Systems

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

CertainTeed offers over forty roll good products, which equate to hundreds of system configurations and specification options. In an effort to simplify system selection, this Low-Slope Selection Guide highlights our recommended systems by application, their value, and the individual product benefits.



At a high level, 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 bituminous low-slope roll goods. They are impregnated 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, Gold Star Contractors can increase warranty durations 25% by engaging in an Integrity Maintenance Contract with their client.

CertainTeed offers four warranty options:

Limited Warranty on Materials

Limited Warranty on Systems

NDL Limited Warranty

Full System 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

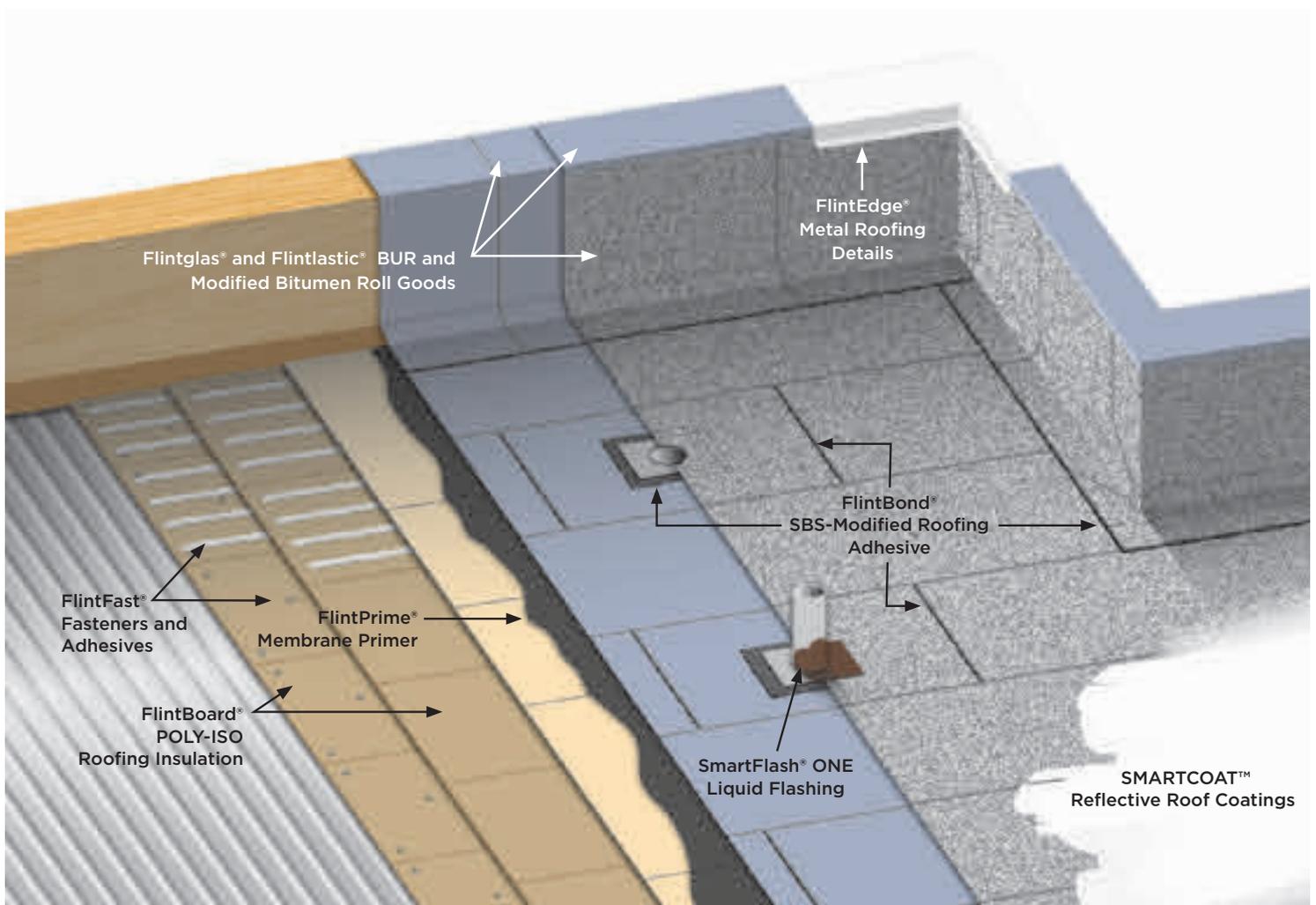
This Selection Guide categorizes products and systems by application method, though some systems utilize multiple methods and some products can be installed in a variety of ways. Each application method has benefits and limitations:

	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, need 50°F and rising temp.

One Brand. One Warranty. One Solution.

CertainTeed offers a comprehensive selection of high-quality roofing products needed to complete 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 110 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.



Selecting Base Sheets

Select the base sheet that best fits your needs. The following should be considered when selecting a base sheet for your project:

Base Sheet Application

All base sheets can be mechanically fastened, if required, to support 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 become of greater consideration. The charts on the following pages detail which CertainTeed base sheets can be installed with hot asphalt, cold adhesive, torch or factory applied self-adhesive and what 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.

Cap Sheet Application

Another element to consider when selecting a base sheet is the cap sheet and its application method. Though generally not required, selecting a base sheet that leverages the same application method as the cap sheet can yield installation efficiencies and optimize system performance. However, 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. The factory applied adhesive will secure the membrane to the roof but requires heat to create an ideal short-term bond (the sun will take it from there). As such, Black Diamond Base Sheet is only an option if the cap sheet is installed with hot asphalt or torch cap sheets. 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 Ply Sheets

Select the ply sheet that best fits your needs. The following should be considered when selecting a ply sheet for your project:

A third layer, or more, of water protection exponentially decreases the leak risk of any roof system. That said, interply 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 per pre-approved system or to comply with a specific fire or wind uplift rating.

Ply Sheet Selection

All CertainTeed base sheets, with the exception of Flintlastic SA NailBase, can be utilized as interply 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. In some cases, however, the desired goal of the project (be it warranty or performance) may be achievable with a less expensive ply sheet. In this case, the contractor would be able to offer a better value to the client with different products for base, ply and cap.



Selecting Cap Sheets

Select the cap sheet that best fits your needs. The following should be considered when selecting a cap sheet for your project:

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

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 25.

All CertainTeed cap sheets are available with CoolStar®, highly reflective white granules. CoolStar cap sheets are sold at a premium price to traditional granules.

Recommended Systems

Self-Adhered

Why Self-Adhered?

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

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	
CODE-DRIVEN 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)	

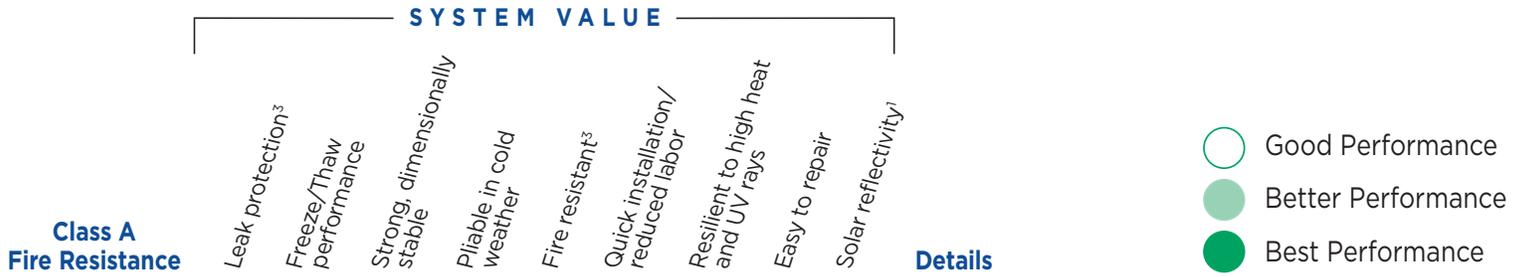
¹ iq.ulprospector.com, CertainTeed's Roof Systems TGFU.R11656, Class A - Fully Adhered, System #42, combustible deck without insulation; Miami Dade NOA 15-0622.21, Page 13 of 19, -52.5 (Lim #7), Tin Tags and Nails; Miami Dade NOA 15-0622.21, Page 18 of 19, -127.5 (Lim #7), Fasteners and Plates

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 NDL 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 which can be used to comply with the 2016 California Title 24 Part 6 Cool Roof Requirements, CRRC product ID 0668-0146.



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 MidPly is manufactured with 51% more asphalt than Flintlastic 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 MidPly is manufactured with 51% more asphalt than Flintlastic 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

Warranty Duration	SYSTEM ANATOMY			
	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 ND 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 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

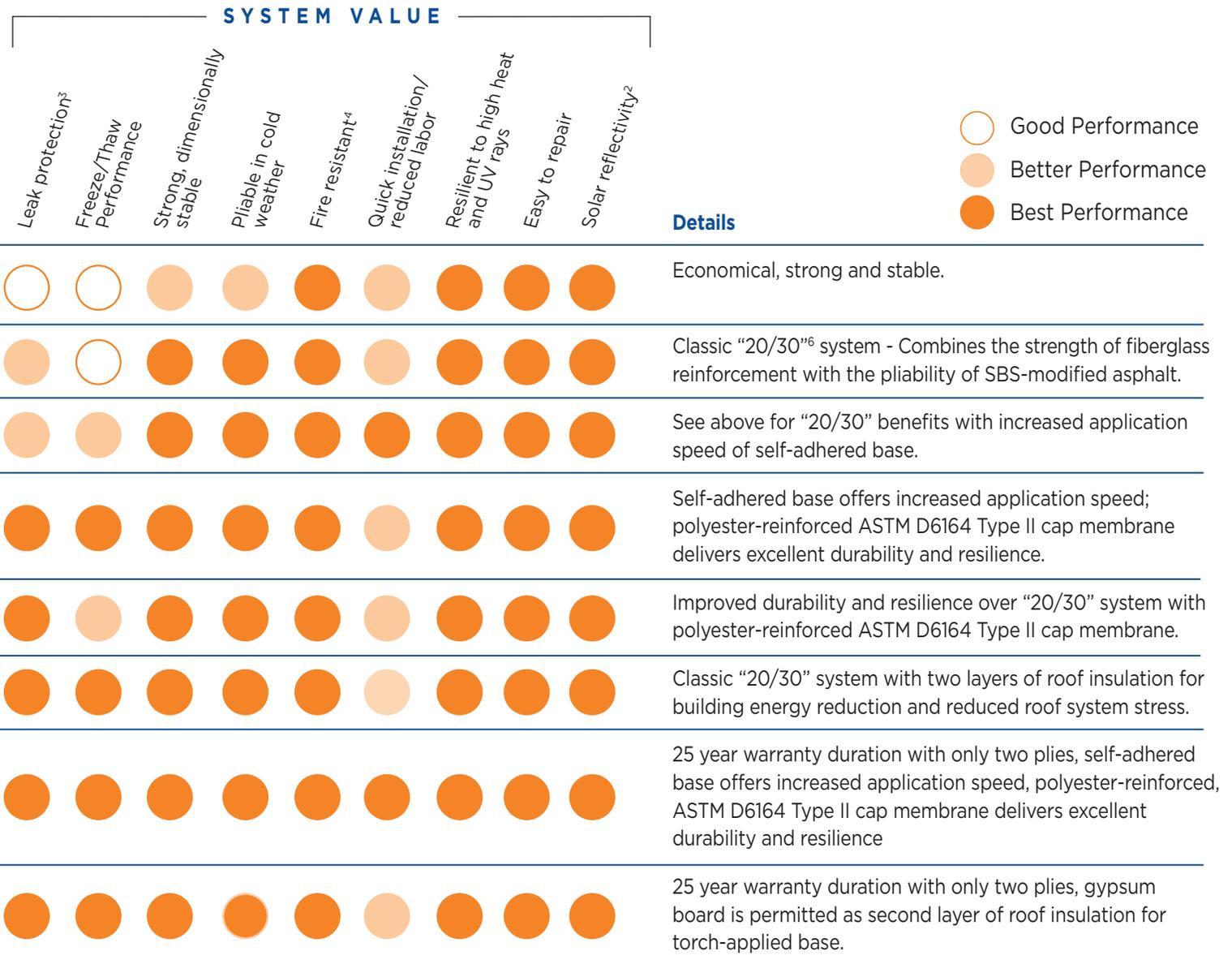
Warranty Duration	SYSTEM ANATOMY			
	Insulation	Base	Ply	Cap
12 Years	Optional	Glasbase™ Base Sheet (MF)	—	Flintlastic® FR Cap 30 T (CoolStar® ²)
15 Years	Optional	Flintlastic® Base 20 T ¹ (T)	—	Flintlastic FR Cap 30 T (CoolStar ²)
15 Years	Optional	Black Diamond® Base Sheet ³ (SA)	—	Flintlastic FR Cap 30 T (CoolStar ²)
20 Years	Optional	Black Diamond Base Sheet ³ (SA)	—	Flintlastic GTS-FR CoolStar ²
20 Years	Optional	Glasbase Base Sheet	Flintlastic Base 20 T	Flintlastic GTS-FR (CoolStar ²)
20 Years	Double layer, second layer adhered	Flintlastic Base 20 T	—	Flintlastic FR Cap 30 T (CoolStar® ²)
25 Years	Double layer, second layer adhered	Flintlastic Ultra Glass SA	—	Flintlastic GTS-FR (CoolStar ²)
25 Years	Double layer, second layer adhered ⁵	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.



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 When base sheet is torch-applied, second layer of insulation must be gypsum board.

⁶ "20/30" is a common industry reference for a two-ply roof system where the base and cap membranes are comprised of SBS-modified asphalt supported by fiberglass reinforcements.

Base/Ply Sheets

Torch

Product	Application	Material	Thickness	Weight	Coverage	ASTM	Why Buy?¹
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	Engineered “partner” for Flintlastic FR Cap 30 T; 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.

¹In 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.

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

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

Cap Sheets

Torch (cont'd)

Product	Application	Material	Thickness	Weight	Coverage	ASTM	Why Buy? ¹
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 FR Cap 30 T	T	SBS/FG	3.8 mm (150 mils)	96 lbs.	100 sq ft	D6163, Grade G, Type I	Engineered “partner” for Flintlastic Base 20 T; offers the tensile strength (especially in low temperatures), dimensional stability and fire resistance of fiberglass reinforcement with the pliability and stress resilience of SBS-modified asphalt.
Flintlastic FR Cap 30 T CoolStar	T	SBS/FG	3.8 mm (150 mils)	97 lbs.	100 sq ft	D6163, Grade G, Type I	See “Flintlastic FR Cap 30 T” plus highly reflective. Reduces thermal heat gain, improving building comfort and reducing energy cost.
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	—	Flintlastic GMS (CoolStar ¹)
15 Years	Optional	Black Diamond® Base Sheet (SA) ²	—	Flintlastic GMS (CoolStar ¹)
20 Years	Optional	Black Diamond Base Sheet (SA) ²	—	Flintlastic Premium FR-P CoolStar ¹
20 Years	Optional	Glasbase Base Sheet (MF)	Flintglas Premium Ply 4	Flintlastic GMS (CoolStar ¹)
20 Years	Double layer, second layer adhered	Flintlastic Base 20 (HA/CA)	—	Flintlastic FR Cap 30 (CoolStar ¹)
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.

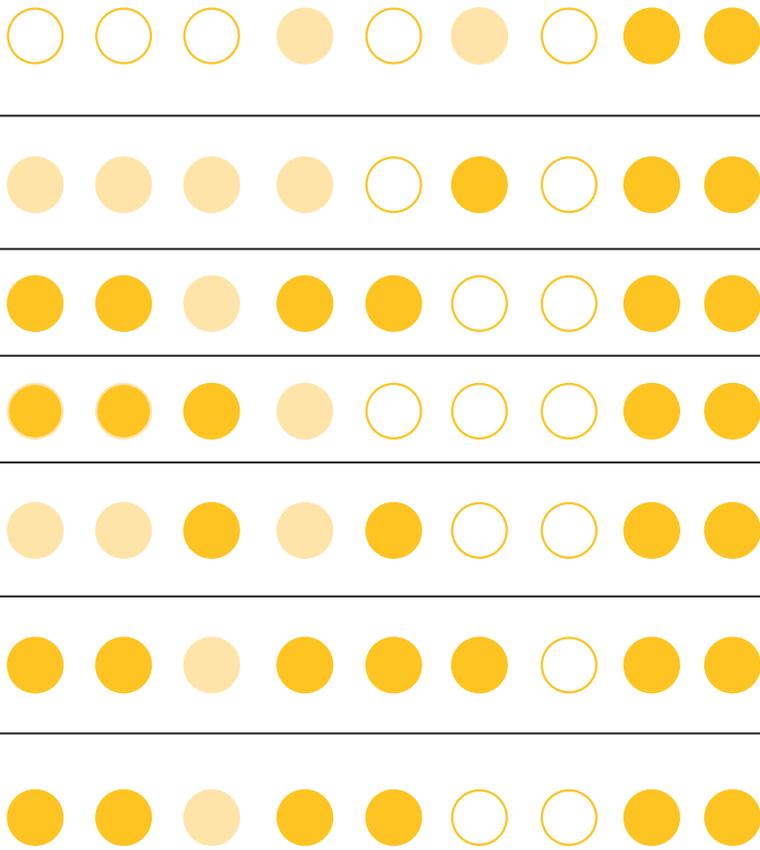
Face it - some old dogs don't need new tricks, and CertainTeed hot asphalt and cold adhesive low-slope roof systems have consistently delivered on the promise of protection for generations. These systems offer multiple watertight layers with unparalleled bond strength. So when the risk of a roof leak 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 “20/30” system offers the strength and stability of fiberglass reinforcement with the pliability and stress resilience of SBS-modified 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	Engineered “partner” for Flintlastic FR Cap 30; 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 GMS CoolStar®	HA/CA	SBS/POLY	3.7 mm (145 mils)	94.5 lbs.	100 sq ft	D6164, Grade G, Type I	See “Flintlastic GMS” plus highly reflective. Reduces thermal heat gain, improving building comfort and reducing energy cost.
Flintlastic FR Cap 30	HA/CA	SBS/FG	3.3 mm (130 mils)	85 lbs.	100 sq ft	D6163, Grade G, Type I	Engineered “partner” for Flintlastic Base 20; offers the strength of fiberglass reinforcement with the pliability of SBS-modified asphalt.
Flintlastic FR Cap 30 CoolStar	HA/CA	SBS/FG	3.3 mm (130 mils)	86.5 lbs.	100 sq ft	D6163, Grade G, Type I	See “Flintlastic FR Cap 30” plus highly reflective. Reduces thermal heat gain, improving building comfort and reducing energy cost.
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.

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.

NOTE: CAP SHEETS ARE CONTINUED ON THE NEXT PAGE.

Cap Sheets

Hot/Cold (cont'd)

Product	Application	Material	Thickness	Weight	Coverage	ASTM	Why Buy? ¹
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, UL G3	Economic cap solution for built-up roofing systems, reduces labor when compared to flood coat and gravel.
Flintglas MS Cap Sheet CoolStar	HA/CA	BUR/FG	3.0 mm (120 mils)	74 lbs.	100 sq ft	D3909	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			
	GTA	GTA-FR	FR Cap 30 T	GTS-FR
WHITE	S	S	S	S
COOLSTAR®	S	S	M²	M²
BURNT SIENNA	S			
MOIRÉ BLACK	S	S¹		
TERRA COTTA				
RESAWN SHAKE	S			
WEATHERED WOOD	S			
BUFF				
HUNTER GREEN				
COLONIAL SLATE	S			
HEATHER BLEND	S			
RED				
MOJAVE TAN				

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				
SA Cap	SA Cap FR	MS Cap	GMS	FR-P	Premium FR-P	FR Cap 30
S	S	S	S	S	S	S
S	S	S ¹	S		M ²	M ²
S	S					
S	S	S ¹	S			
S						
S	S		S			
S	S		S			
S						
S						
S	S					
S	S					
S						
S						

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.

Available in a variety of thicknesses, lengths and densities, 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. *(LTTR is the industry standard method for calculating the 15-year time-weighted average for roof insulation.)*

- 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
- Unaffected by hot bitumen or applied construction solvents and adhesives
- Passes the strictest fire performance tests, having earned FM 4470 Class 1 and UL 1256 ratings

Tapered Design Services

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

Product	Description
FlintBoard ISO/ISO-T (T=Tapered)	Workhorse product features heavy, black (non-asphaltic), organic fiber-reinforced felt facers
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
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
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
FlintBoard ISO Pre-Cut Crickets	Provides a standardized pre-fabricated cricket solution to promote positive drainage
FlintBoard HD Cover Board	Lightweight (11 lbs per 4'x8' panel), 109 psi max high density polyiso insulation designed for use as a cover board
FlintBoard Hinged Target Sump	Save 74% in material and waste costs over field fabricated sumps when installing drains. Manufactured with FlintBoard ISO Cold 25 psi.



ASTM C1289	Panel Size	Code/Compliance
Type II, Class I, Grade 2 (20 psi), Grade 3 (25 psi)	4'x4' (standard or tapered), 4'x8'	Miami-Dade, State of Florida, CA Title 25, IBC, CAN/CGSB, CAN/ULC, NYC-MEA, FM 4450/4470, UL 1256, UL 790, UL 263, UL 1897, UL Certified for Canada
Type II, Class II, Grade 2 (20 psi), Grade 3 (25 psi)	4'x4' (standard or tapered), 4'x8'	Miami-Dade, State of Florida, CA Title 25, IBC, CAN/CGSB, CAN/ULC, ASTM D 3273 (Resistance to Mold Growth) FM 4450/4470, UL 1256, UL 790, UL 263, UL 1897, UL Certified for Canada
Type V	4'x4', 4'x8'	Miami-Dade, State of Florida, CA Title 25, IBC, FM 4450/4470, UL 1256, UL 790, UL 263
Type V	4'x8'	Miami-Dade, State of Florida, IBC, FM 4450/4470, UL 1256, UL 790, UL 263, UL Certified for Canada,
Type II, Class I (FlintBoard ISO-T)	Typical panel dimensions are 12'x4' and available in 1/4" per ft and 1/2" per ft slopes	Miami-Dade, State of Florida, CA Title 25, IBC, CAN/CGSB FM 4450/4470, UL 1256, UL 790, UL 263, UL Certified for Canada
Type II, Class 4, Grade 1 (109 psi max)	4'x4', 4'x8'	Miami-Dade, State of Florida, CAN/ULC, ASTM D 3273 (Resistance to Mold Growth), FM, UL 790, SH-1 Hail
Type II, Class II, Grade 2 (20 psi), Grade 3 (25 psi)		Miami-Dade, State of Florida, CA Title 25, IBC, CAN/CGSB, CAN/ULC, ASTM D 3273 (Resistance to Mold Growth) FM 4450/4470, UL 1256, UL 790, UL 263, UL 1897, UL Certified for Canada

Insulation Adhesives

CertainTeed offers a variety of roof insulation adhesives 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	Dow Insta Stik™
Material	Polyurethane Foam	Polyurethane Foam (45% renewable content)	Polyurethane Foam	Polyurethane Foam
Temperature	No minimum		40°F and rising	33°F and rising
Rise Time	None - Immediate installation		2-3 minutes	2-3 minutes
Packaging	1.5 liter cartridges		1.5 liter cartridge	30 lb. tank
Application	Battery Powered Single Bead, Multi-Bead Applicator, Pneumatic Applicator		5G, 15G or 50G Cyclone	Hose/Wand

Millennium One Step Advantages

- Precise 1:1 application ratio every time
- Consistent adhesive in varying temperature or humidity
- No temperature restrictions - one 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



Insulation Adhesives

Tools and Accessories

Product	Description
Millennium Universal Primer	Water-based, all-purpose insulation adhesive primer for use on built-up, modified bitumen and metal roofs
Millennium Surface Treatment	Spray, brush or roller applied compound engineered for use when bonding to difficult substrates such as plastic films, smooth APP modified bitumen membranes, very fresh non-oxidized (glossy surfaced) asphalt or coal tar
Millennium One Step™ Battery Powered Applicator	Cordless, single-bead applicator for use on small to medium size projects
Patented One Step Multi-Bead	Cordless, four cartridge multi-bead applicator for use on medium size projects
Patented One Step Multi-Bead Plus	Cordless, thirteen cartridge multi-bead applicator for use on large projects
Millennium Pneumatic Applicator	Single-bead compressed air applicator for use on small to medium size projects
Millennium Cyclone 1 Applicator	Low pressure adhesive pump cart for use with PG-1 Low Viscosity Adhesive



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

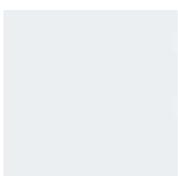
FlintEdge Roof to Roof

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



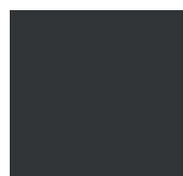
Medium Bronze



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.

FlintFast®

FlintFast® fasteners are engineered to improve application efficiency and increase the strength of the mechanical attachment, providing top quality performance in commercial roofing systems. Fasteners are used in roofing applications for the attachment of roofing insulation (FlintBoard®) and base sheets.

	Product	Description
	#12 Drill Point (DP)	Designed for insulation attachment to 16-22 gauge steel decks; the only #12 drill point roofing fasteners on the market that will drill a 16 gauge deck! Allow for a minimum 3/4" penetration on steel. FM and Miami-Dade approved.
	#12 Pre-Assembled (PA)	#12 Drill Point Fasteners pre-assembled with 3" recessed galvalume plates.
	#14 Heavy Duty (HD)	Ideal "all-purpose fastener" for use in corrugated steel, structural concrete, and wood decks for insulation or lap attachment. Allow a minimum 3/4" penetration on steel and a minimum 1" embedment in wood plank. Pre-drilling required for concrete using a 3/16" drill bit; pre-drilled hole must be at least 1/2" deeper than the length of the fastener to allow for debris. FM and Miami-Dade approved.
	#15 Extra Heavy Duty (EHD)	Engineered for lap attachment in higher wind uplift assemblies; good for increased pull strength with lighter gauge steel decks. Allow a minimum 3/4" penetration on steel. FM and Miami-Dade approved.
	SIPLD Fasteners	Engineered for attaching structural insulated panels (SIPs) and nail base panels to corrugated steel and wood decks. Large, low-profile pancake head with a 6-lobe drive, no need for washer.
	Base Sheet Fasteners (Twin Loc, FM, Do-All Loc)	Specialty decks such as lightweight insulating concrete (LWIC), poured gypsum or cementitious wood fiber are low density and can be difficult when fastening insulation; common to fasten a base sheet and adhere insulation, if desired.
	Galvalume Plates	Spread the compression load of the fastener to avoid insulation pull through/pull over.
	Termination Bars (TB-75, TB-90)	Prevent water incursion at parapet wall base flashing terminations.
	ZAMAC Nailins	Termination bar anchors for masonry, concrete or cinder block walls.

FlintPrime® & FlintPrime SA

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 and long-term performance of BUR and modified bitumen roof systems with FlintPrime or FlintPrime SA.

Product	Color	Packaging	Units/Pallet	Yield/Unit (sq ft)
FlintPrime SA	Light Blue	1G, 3.5G	180 (30 boxes, 6 pails each)	500, 1,750
FlintPrime	Black	5G	42	666
FlintPrime Aerosol	Black	14 oz.	864 (72 boxes, 12 cans each)	17



FlintPrime

FlintPrime is a solvent-based, highly penetrating primer designed to promote adhesion when installing torch-applied, cold-applied or hot-applied asphaltic base sheets. If preferred over our water-based solution, it may also be used with self-adhered base sheets. FlintPrime Aerosol is valued by contractors for metal construction detail preparation.



FlintPrime SA

FlintPrime SA is a thin, water-based asphalt primer designed to promote adhesion when installing self-adhering asphaltic roof systems to most roofing substrates such as concrete, steel and gypsum board, etc. It is not designed to prime existing asphaltic roof membranes. Its quick drying characteristic can reduce total installation time by allowing contractors to begin applying the base ply shortly after priming the surface.

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 spray, brush, trowel and caulk grades. FlintBond is a professional-grade, cold-applied adhesive manufactured using premium asphalt, rubber, solvent and fibers.

- 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



Uses:

Brush — Small to large low-slope applications, for field membranes

Trowel — Construction details such as endlaps and edge metal

Caulk — Small construction details and flashing seams

Coverage:

Brush — 1 gallon/100 sq ft (more may be required on porous surfaces)

Trowel — 8 gallons/100 sq ft (assumes 1/8" uniform thickness)

Caulk — One cartridge, 1/4" bead (recommended), yields approximately 24 LF

Product	Color	Packaging	Units/Pallet	Yield/Unit
Caulk	Black	10.1 oz.	540 (45 boxes, 12 tubes each)	24 linear ft (1/4" bead)
Trowel	Black	3G, 5G	64, 48	120 linear ft, 200 linear ft (4" wide and 1/8" thick)
Brush	Black	5G	48	330-500 sq ft

SMARTCOAT™



Driven by improved installed cost, reduced environmental impact and ease of training and application, liquid-applied roof restoration is the fastest growing segment of low-slope roofing. CertainTeed now offers a comprehensive line of high-performance restoration products, stocked locally with the support contractors need and the warranty coverage building owners expect.

Contact your local Territory Manager to learn when SMARTCOAT will be available in your region!

Restoration with SMARTCOAT is a 3 or 4-part process:

CLEAN	100 Roof Wash Nothing sticks to dirt. Help your customers avoid call backs by starting with a clean slate.	
PREP/PRIME (only as needed)	200 Series Primer/Bleed Blocker Our universal primer is engineered to optimize critical adhesion interfaces across a variety of substrates, when needed; our Bleed Blocker prevents staining on asphaltic roof restorations.	
SEAL	300 Series Mastic/Sealant If your mastics don't have the muscle to permanently seal leaks, your restoration project will miss the mark.	
COAT	400 Series Coatings SMARTCOAT coatings are high-solids, direct-bond optimized formulations. And, yes, you can recoat our silicone.	
REINFORCE	500 Series Stitchbond Polyester Reinforce seams, details and acrylic roof systems.	
PROTECT	600 Traffic Coat Series Protects your roof under light or heavy foot traffic.	

Contact your local Territory Manager to learn when SMARTCOAT will be available in your region!

SMARTCOAT™ 400 Series Coatings are direct-bond optimized to deliver excellent bond strength to all common roof substrates including metal, single-ply, built-up and modified bitumen roofs without the need for primer¹.

Refer to published SMARTCOAT specifications for installation guidelines.

SMARTCOAT 400 High Performance Acrylic

High solids, heavy bodied elastomeric roof coating manufactured with 100% acrylic-based polymers, reflective white pigments and high-grade biocides. Remains bright white after weathering. Extremely high elastomeric properties - tough, durable solution to seal roof surfaces in all North American climates, prolong roof service life, reduce interior building temperatures and associated cooling costs. Exceeds the parameters of ASTM D 6083, Type I.

SMARTCOAT 401 High Solids Acrylic

Heavy bodied elastomeric roof coating manufactured with 100% acrylic-based polymers, reflective white pigments and UV reactive chemicals for enhanced dirt pickup resistance. Remains bright white after weathering. Durable, workhorse solution to seal roof surfaces, prolong roof service life and reduce interior building temperatures and associated cooling costs.

SMARTCOAT 420 Fibered Aluminum

Heavy-duty fibered aluminum coating that gives maximum reflectivity while giving unsurpassed protection against moisture and corrosion. Unique formulation forms a heavy, brilliant, silvery finish that preserves, prevents rust, inhibits fungus and reflects over 70% of the sun's damaging rays, while reducing interior temperatures. Meets or exceeds all the requirements of ASTM D 2824-06 Type III.

SMARTCOAT 450 High Solids Silicone

100% silicone-based, solvent free, single part roof coating. Creates a vapor permeable membrane, adaptive to temperature extremes, UV resistant, watertight and weatherproof. Outstanding ponded water resistance for direct bond over horizontal and vertical surfaces. May be used to re-coat existing silicone roof coatings and existing acrylic roof coatings. Meets or exceeds ASTM D 6694.

¹It is best practice to conduct an adhesion analysis on every project to determine if primer is required.

Product	Colors	Packaging	Units/Pallet	Coverage
400	White, Tan	5G, 55G, 275G	48, 4, 1	1.5G per 100 sq ft, minimum 3G in two coats
401	White, Tan	5G, 55G, 275G	48, 4, 1	1.5G per 100 sq ft, minimum 3G in two coats
420	Silver	5G	48	1 - 1.5G per 100 sq ft
450	White, Light Grey	5G, 55G	48, 4	1.5 - 2.5G per 100 sq ft

SmartFlash® ONE



One-Part Liquid Applied Flashing & Repair Resin for Commercial and Residential Use

SmartFlash ONE is a self-terminating, durable polyurethane bituminous resin with several liquid applied application advantages.



SmartFlash ONE For Use with Flashing Details Maintenance-free leak protection, up to 20 years.

- **Self-Terminating:** No additional components
- **Versatile:** Conformation to irregular penetration shapes
- **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

*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).*



SmartFlash ONE For Use on Repairs

Cost-effective, 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 if desired
- **Efficient:** Resin and reinforcement are easily stored on repair trucks for use when needed



FlintPatch[®]

Wet/Dry Rubberized Flashing Cement

FlintPatch is the ultimate repair mastic for patching splits, seams, cracks and holes in bonded gravel, mineral surfaced cap sheet and smooth surface asphalt roofs and shingle roofs. Seals around chimneys, vent pipes, gravel guards, downspouts, cracks in concrete and expansion joints on roofs.



This high-performance, extremely versatile modified mastic provides superior adhesion to wet surfaces.

Product	Color	Packaging	Units/Pallet	Yield/Unit (sq ft)
SmartFlash ONE Flash Pack	Brown	5G ¹	36	17 ²
SmartFlash ONE 1G	Brown	1G, sold 2/carton	60	17 ² (32 per carton)
SmartFlash ONE 5G	Brown	5G	36	85 ²
SmartFlash ONE Reinforcement	White	6"x100" roll, sold 16/carton	12	800
FlintPatch	Black	5G pail	70	38

¹ Flash Pack includes all materials and tools required to flash 17 square feet: 1G resin, 6"x36' polyester, 4" roller, two extra naps, 2" brush, scissors, two pairs of latex gloves, 2"x180" masking tape.

² Assumes 3-course flashing with a finish coat.

Products and Systems Warranties

CertainTeed offers system dependent, standard warranty durations of between ten and twenty-five years. Additionally, Gold Star Contractors can increase warranty durations 25% by engaging in an Integrity Maintenance Agreement with their client. CertainTeed offers three multiple limited warranties to support our asphaltic membranes, accessory components and SMARTCOAT coating/liquid-applied roofing solutions.

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	Certainteed.com/commercial-roofing	Certainteed.com/commercial-roofing	Application submitted through ctndl.com

COMPLEMENTARY AND ACCESSORY STAND-ALONE WARRANTIES

	Enhanced Wind Warranty Endorsement	FlintBoard® Limited Warranty	SmartFlash® ONE Limited Warranty
Contractor Requirements	Silver or Gold Star Credential	—	—
Coverage	Warranty covers roof system detachment in accordance with primary CertainTeed Warranty	Warranty covers thermal insulation R-value in FlintBoard products	Warranty covers leaks caused by manufacturer defects in CertainTeed products only
Obtain	Apply through commercial-roofing	Certainteed.com/commercial-roofing	Certainteed.com/commercial-roofing

SMARTCOAT™ 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	Silver or Gold Star Credential and SMARTCOAT Approved Applicator	Silver or Gold Star Credential and 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	Customized warranty provided to contractor	Customized warranty provided to contractor	Customized warranty provided to contractor	Customized warranty provided to contractor

Contractor Credential Program

Gold Star Contractor

Our highest credential for commercial roofing companies who meet stringent professional qualifications.

- Offer No-Dollar-Limit (NDL) warranties up to 25 years
- Offer CertainTeed's Integrity Maintenance Coverage, which increases NDL warranties by 25 percent for just \$50
- Access to exclusive rebates
- Access to MyEDGE™ website for customizable marketing and sales tools
- Access to CTNDL.com (NDL warranty site)

Silver Star Contractor

Showcase your commercial roofing business' proven record of quality workmanship and good business practices.

- Offer No-Dollar-Limit (NDL) warranties up to 12 years
- Access to exclusive rebates
- Access to MyEDGE website for customizable marketing and sales tools
- Access to CTNDL.com (NDL warranty site)

CertainTeed also offers a Flintlastic Application Specialist™ certification for installers.

This educational program provides the technical knowledge required for proper application of hot-mopped, torch-welded, cold-applied and self-adhered low-slope Flintlastic modified bitumen roof systems.



*Flintlastic Application
Specialist Hands-On Flintlastic
SA Training Program*

Contact your local CertainTeed Territory Manager to register for Flintlastic Application Specialist Hands-On Training!

Customer Service

Low-Slope Sales and General Inquiries

CertainTeed offers professional, live Customer Service in the United States and Canada 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

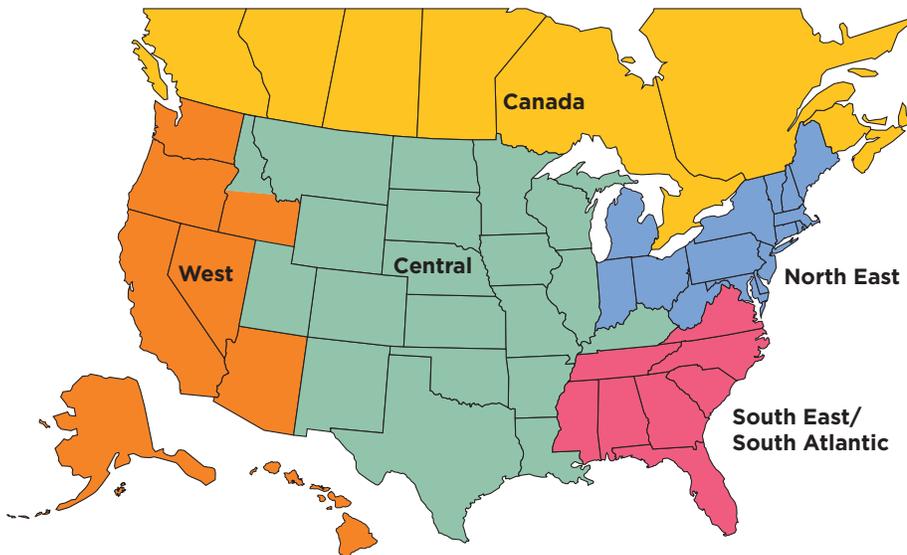
Phone: 800-238-0958 / Fax: 800-790-3347 / Email: ctrpgcswest@saint-gobain.com

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

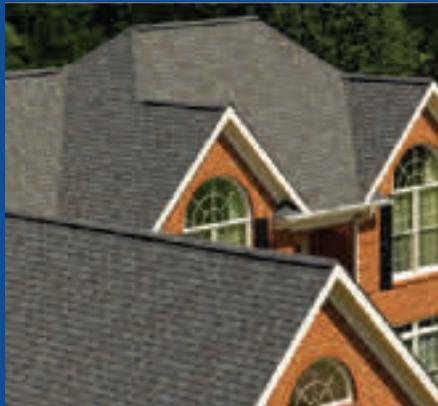
CertainTeed has a team of seasoned low-slope professionals available for technical support Monday through Friday, 8:30 AM to 5:00 PM, Eastern Standard Time.

Phone: 800-396-8134 ext. 2

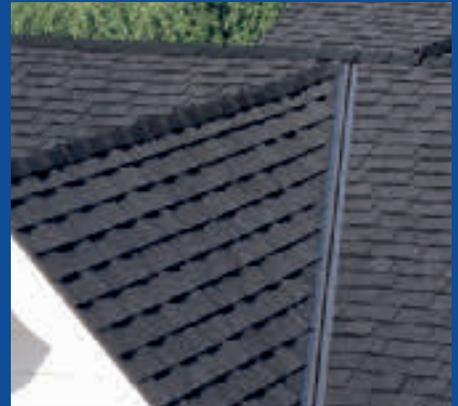
Fax: 610-254-5458

rpg.@saint-gobain.com

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



Residential



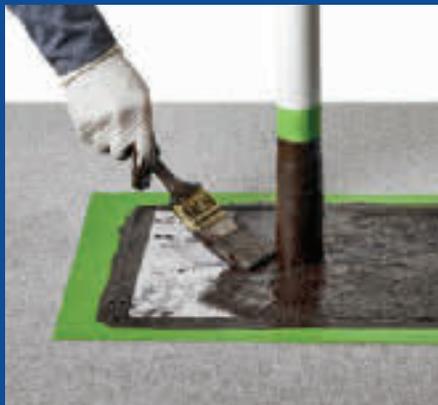
Residential Accessories



Solar



Commercial



Commercial Accessories



Liquid-Applied Roofing



learn more at:

certainteed.com/roofing

CertainTeed

CEILINGS • DECKING • FENCE • GYPSUM • INSULATION • RAILING • ROOFING • SIDING • TRIM
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