

# CERTAINTEED COMMERCIAL ROOFING

## EXPERTS IN COMMERCIAL ROOFING

CertainTeed is a leading manufacturer of commercial and residential roofing products and a division of Saint-Gobain, the world's largest manufacturer of building materials. Saint-Gobain ranks among the world's top 100 industrial corporations, operating through a global network of businesses in 67 countries. A quality roof depends on two essential elements: excellent materials and superior workmanship. CertainTeed has been one of North America's leading roofing material manufacturers for more than 100 years.

### OUR HISTORY

Since its inception in 1904 as the General Roofing Manufacturing Company, CertainTeed Corporation has been an innovator in the commercial roofing business. From introducing its organic rag felt built-up systems in 1904 to pioneering Certaglas fiberglass roofing systems in 1980, CertainTeed has provided quality, durable, sustainable membrane roofing systems with proven performance. The tradition extends back to 1888 through the acquisition of companies such as GS Roofing Products (GENSTAR-FlintKote) and Celotex Roofing (Barrett and Phillip Carey), making CertainTeed a forerunner in the bituminous roofing market.

Today, under its Flintlastic® label, CertainTeed offers a complete line of hot asphalt, cold process, torch welded and self-adhered systems providing a wide array of APP and SBS modified bitumen roofing choices and Flintglas® built-up roofing options for the applicator and the designer. Accessory products such as FlintBoard® insulation, FlintFast® fasteners, FlintBond® adhesives, FlintCoat® coatings, FlintEdge™ metal, FlintPatch® repair cement, FlintPrime® primers, and SmartFlash® liquid-applied flashing complement this offering to provide total system protection that you can depend on. CertainTeed's innovative CoolStar® granulated cap sheets offer the latest technology in reflective roofing materials to meet the most stringent of energy conservation and environmental codes.

### INNOVATIVE SOLUTIONS

CertainTeed leads the way in smart, energy-saving products that help you meet new building standards. For instance, our CoolStar products with solar-reflective surfaces meet ENERGY STAR® requirements and offer several installation advantages.

### WORKMANSHIP IS KEY

To help assure the best possible workmanship for your commercial roof installation, CertainTeed has established the Gold and Silver Star Contractor programs. These programs offer the building owner a selection of credentialed roofing contractors who have met the strictest criteria relating to financial credibility, workmanship history and sound business practices, including proper licenses and appropriate insurance.

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### **CENTRALIZED TECHNICAL ASSISTANCE – TO SERVE YOU**

CertainTeed's Commercial Territory Managers are trained technical experts available to assist customers at the local level regarding products, materials and systems. In addition to our trained field sales staff, CertainTeed offers its centralized **Commercial Roofing Technical Services** (Tech Services) to assist the contractor and building owner regarding system and construction detail installation, code and fire approvals and CertainTeed warranty information. To contact Commercial Roofing Technical Services, call 800-396-8134 Ext. 2, or email [rpg.comm.services@saint-gobain.com](mailto:rpg.comm.services@saint-gobain.com).

### **BUR (BUILT-UP ROOFING)**

Traditional built-up roofing (BUR) derives its name from the building of a roof on-site using layers of base sheet, interply sheets and cap sheet or other surfacing such as gravel or liquid coating. Hot asphalt (bitumen) is the bonding and waterproofing agent between layers. BUR is suitable for most low-slope roofing applications. The higher the quality of the BUR materials and asphalt used and the greater the number of plies (and separate asphalt moppings), the more superior the roof system.

### **APP AND SBS MODIFIED BITUMEN**

In the 1970s, technological advances in asphalt sciences led to the development of modifiers such as APP (atactic polypropylene) and SBS (styrene-butadiene-styrene) which, when added to unblown (unoxidized) asphalt, impart either plastic (APP) or rubber (SBS) characteristics. These additives provide enhanced performance characteristics to traditional asphalt. When coupled with reinforcements, such as polyester (superior elongation and puncture resistance) or fiberglass (high tensile strength and fire resistance), they create high-performance roof membranes.

APP modified bitumen membranes are self-adhering when heated using a roofing torch. SBS modified bitumen membranes can be formulated for torch application, but are more commonly applied using hot asphalt or cold SBS modified bitumen adhesive. The result is a multi-layer system with significantly enhanced performance capabilities. Continuing improvements in technology have also resulted in self-adhering SBS roof membranes.

When an SBS or APP cap sheet is combined with traditional BUR base sheets and interply sheets, the result is a hybrid roof offering the best of both systems, multiple plies and superior performance and longevity.

### **SELF-ADHERING MODIFIED BITUMEN ROOFING SYSTEM**

Flintlastic SA is a premium, self-adhering modified bitumen roofing product line comprised of NailBase, PlyBase, MidPly, Cap and Cap FR (both Caps available in CoolStar highly reflective granules), supporting a variety of system specifications, building and warranty requirements.

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Flintlastic SA delivers the reliable protection of traditional modified bitumen roofing, plus:

- No kettle fumes or burn risk
- No torch or risk of fire
- No or low VOCs (from cold adhesive)
- No building occupant disturbance
- No mess or side lap bleed out
- Reduced training requirement
- Reduced insurance requirement
- Superior granule embedment when compared to other self-adhering cap sheets
- Superior substrate and inner-system adhesion when compared to other self-adhering systems

Flintlastic SA products can be used in various system configurations to meet building, performance and warranty requirements. For projects on nailable substrates, a starting layer of Flintlastic SA NailBase can be capped with Flintlastic SA Cap (FR) with the option of including an interply layer of either Flintlastic SA PlyBase or Flintlastic SA MidPly. For projects on non-nailable substrates, Flintlastic SA PlyBase or MidPly may be directly adhered as the first layer.

### COOL ROOF SOLUTIONS FROM CERTAINTEED

CertainTeed's CoolStar membranes offer high solar reflectivity for reduced energy load, reduced thermal strain on the roof system and increased occupant comfort. The core granule is manufactured with the same chemistry as that of traditional roofing granules that have been used successfully for over a century, demonstrating excellent durability.

### CERTASPEC®

CertaSpec, a web-based specification-writing and submittal tool, aids contractors and specifiers in system selection and proposal generation, including LEED documentation. All documents are as current as the CertainTeed website content, which is continuously updated and enhanced. CertaSpec provides you with:

- Proposal letter
- Short specs
- Technical data sheets
- Installation information
- Warranty specimens
- LEED product information
- Construction details

Please visit <http://certaspec.certainteed.com>