

Glaskap® CR Cool Roof Cap Sheet – The easiest way to Title 24 compliance

When compliance with California’s Title 24 regulations is required, and a bituminous built-up roofing system (BUR) is preferred, there is no easier solution than JM’s Glaskap CR.

Glaskap CR is a white mineral surfaced, white acrylic coated, fiber glass cap sheet. It is used as the uppermost finish ply in a variety of built-up and hybrid SBS roofing systems. The unique, UV-resistant coating provides extra protection to the membrane and underlying asphalt. It provides a reflective, emissive surface that meets California’s Title 24 and LEED requirements.

With reflectivity rated at 0.76 and emissivity rated at 0.85, Glaskap CR meets all requirements for compliance with California’s Title 24 regulations and qualifies for LEED points. Glaskap CR has strong UL and FM ratings for both fire and wind uplift.

Title 24
This product meets California Title 24 reflectivity & emissivity requirements.



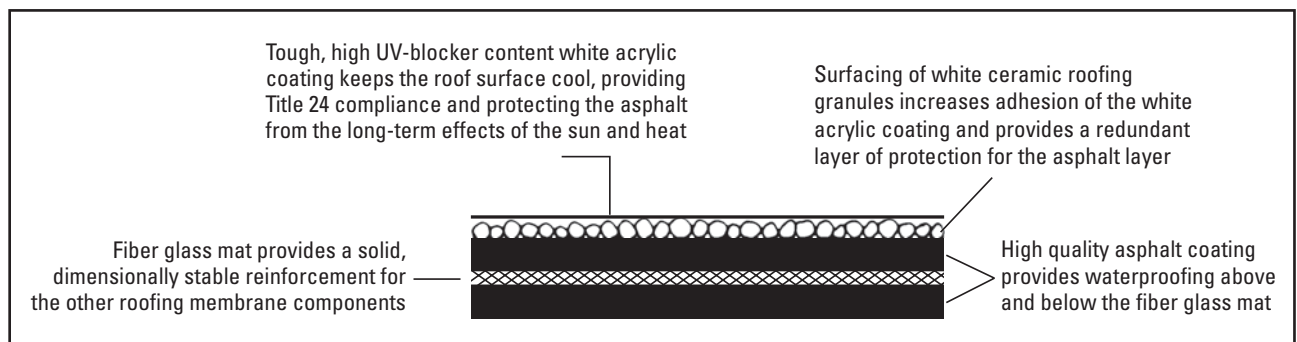
Before JM Glaskap CR, the options for achieving Title 24 compliance included applying a field coating over an asphalt system, or switching to a TPO or PVC single ply system. Now with Glaskap CR, you have a sheet that is manufactured by Johns Manville with full Title 24 compliance, and it installs like a standard BUR cap sheet.

Glaskap CR meets Title 24 requirements through the Standard Prescriptive Approach, which means a specifier, contractor or building owner need only show that each building product meets or exceeds the prescriptive requirement. JM provides the product and the documentation.

The peace of mind that comes with the long, solid history of BUR

The relatively recent development of single ply, self-adhering and other roofing systems has brought many benefits to the building and roofing industries. Many owners, specifiers and contractors are still most comfortable with the multi-ply redundancy of an asphalt built-up roofing system.

Glaskap CR is an improved version of our proven Glaskap, with an enhanced top surfacing for added toughness and Title 24 compliance. The white acrylic coating is factory applied over the mineral granules, increasing the adhesion of the coating while retaining the protective benefits of the granules.

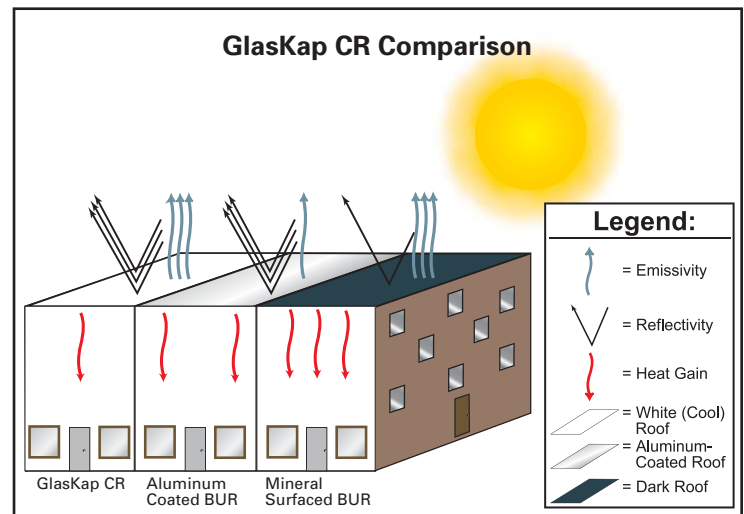
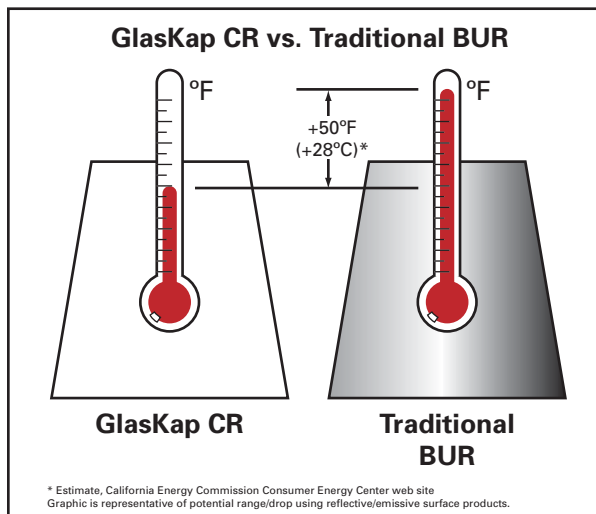


While Glaskap CR provides the additional benefit of Title 24 compliance, it maintains all the benefits of standard Glaskap. The chart below shows the many ways that Glaskap CR compares favorably to standard Glaskap.

| Comparison | GlasKap CR | Standard GlasKap |
|---------------------|-------------------|-------------------|
| Weight | 78 lbs | 72 lbs |
| Size | 1 square | 1 square |
| Guarantee | Up to 20-year NDL | Up to 20-year NDL |
| Installation | Hot | Hot or cold |
| JM Approved Systems | 3, 4 and 5 ply | 3, 4 and 5 ply |
| ASTM D 3903 | Yes | Yes |
| Title 24 Compliant | Yes | No |

Brighter and whiter than traditional BUR – to keep the roof cooler

The greater reflectivity and emissivity of GlasKap CR means the roof stays cooler, resulting in lower energy consumption and reduced demand during peak periods. The more solar energy that is reflected back to the sky, and the more heat that can be shed from the surface, the less heat that gets transferred into the building.



Combining highly reflective and highly emissive roof surfacing with the proper amount of roof insulation can significantly reduce heat gains inside the building.

Keeping the roof cooler has other advantages, as well. It helps prevent thermal shock: the sudden, drastic change in roof temperature which can cause membrane fatigue.

More consistent quality than field-applied coating

With GlasKap CR, the quality is built in during the production process. A computer-controlled machine meters the application rate. So the coating is evenly applied to the proper thickness over every square inch of the membrane. During manufacture, the coating is dried under controlled conditions; whereas field-applied coating may be exposed to adverse temperature, humidity or moisture before curing.

In addition, the factory-applied coating has 300% of the UV blockers of a regular field-applied white coating. It simply does a better job protecting the membrane, slowing oil exudation from the plies and helping the roof to perform like new longer.

Lower installed cost than field coating

Labor costs are lower because it doesn't take as long to install GlasKap CR as it takes to apply 3-4 gallons of coating in two coats. When you install GlasKap CR the job is done. Expensive spray equipment is no longer necessary. And you don't have to go back 30 to 60 days later to apply the coating as with many field-applied coatings. Consequently, contractors don't have to wait 30 to 60 days longer to get paid.

The long-term costs of GlasKap CR can be lower, too. The consistent quality of the factory-applied coating means fewer costly call-backs. And, with GlasKap CR, the life of your BUR system is extended due to greater UV protection and the reduced frequency of problems caused by thermal shock.

Simple touch-up and repair

GlasKap CR complies with Title 24 and LEED even if there is some bleed-out or tracking during installation. To ensure a more aesthetically pleasing roof, end laps and side laps can easily be touched up.

If there should be any damage to the roof after installation, repairs can be made easily with standard methods.

Availability

GlasKap CR is readily available in full truck quantities nationwide. It is manufactured by Johns Manville in our Oklahoma City plant, and it is stocked at both our South Gate (Los Angeles) and Stockton locations. It is available from JM distributors throughout the United States.

With all the JM support that makes your life easier

If you've ever dealt with Johns Manville Roofing before, you know we make it our business to add value every step of the way by providing the sales and technical support our customers need.

In addition to the expected data sheets and specifications, JM provides contractor training, and a great guarantee program. We also provide the forms you need to show Title 24 compliance.

Johns Manville's Peak Advantage™ Guarantee

- Up to 20-Year No Dollar Limit (NDL) Guarantee available
 - Same systems as 10, 15 or 20-Year NDL with standard GlasKap
 - Use CR series of details or other approved JM details

GlasKap CR has both UL Class A and FM approvals.

Typical Physical Properties

Material meets the requirements of ASTM D 3909

GlasKap CR is classified by Underwriters Laboratories as a Type G-2 Coated Cap Sheet. See the UL Roofing Materials and Systems Directory for acceptable Class A, B or C roof constructions employing GlasKap CR. Factory Mutual has approved the use of this product in numerous constructions. Refer to the current edition of FM Global's RoofNav site for details.

Sizes

| | |
|-----------------------------|---------------------------------|
| Roll size | 1 square (9.29 m ²) |
| Roll weight | 78 lbs. (35.4 kgs.) |
| Roll length | 36' (11 m) |
| Roll width | 36" (0.92 m) |
| Rolls per pallet | 30 |
| Pallets per truckload | 19 |
| Pallet size | 45" (1.14 m) square |
| Pallet weight | 2,375 lbs. (1,077 kgs.) |


Precautions

Refer to the Material Safety Data Sheet and Product Label prior to using this product.

Energy and the Environment

| | | |
|------------------------------|---|--------------------|
| CA Title 24 (CRRC) Compliant | Reflectivity ≥.76 | Emissivity ≥.85 |
| ENERGY STAR* | Initial Reflectivity ≥.76 | |
| LEED | Recycled Content: 0% | SRI 92 |
| | Producing Locations: Oklahoma City, OK | |

* Three-year reflectance still pending

| | | | |
|---|--------------------------|-----------------|----------------------|
|  MEMBER | Solar Reflectance | Initial 0.76 | Weathered Pending |
| | Thermal Emittance | 0.85 | Pending |
| | Rated Product ID | 0662-007 | |
| | Licensed Manufacturer ID | 0662 | |
| | Classification | Production Line | |
| <small>Cool Roof Rating Council ratings are determined for a fixed set of conditions, and may not be appropriate for determining seasonal energy performance. The actual effect of solar reflectance and thermal emittance on building construction may vary.</small> | | | |
| <small>Manufacturer of product stipulates that these ratings were determined in accordance with the applicable Cool Roof Rating normal procedures.</small> | | | |

Peak Advantage™ Contractor Program

In order to assure quality workmanship and top-notch installation, JM offers its Peak Advantage program. Contractors selected for the Peak Advantage program are proven to be best of class, having lived up to the highest performance standards. These contractors have access to JM's strongest guarantees.

To be assured of the best possible results on the roofing system you specify, make sure it's installed by a JM Peak Advantage contractor.

