APP Heat-Weld Specifications
2CIS-W/2PIS-W (Alternate)

Two-Ply (One-Ply Asphalt, One-Ply Heat-Welded) Modified
Bitumen Smooth-Surfaced Roofing System. For use over
Johns Manville (JM) insulation, approved decks or other
approved insulations on inclines up to 3° per ft (250 mm/m).

Materials per 100 ft² (9.20 m²) of roof area

**Primer (if required):**
JM Concrete Primer 1 gal (3.8 l)

**Base Ply:**
GlasPly Premier, GlasPly IV or PermaPly 28 1 layer

**Cap:**
2CIS-W—TRICOR S* or BICOR S*
2PIS-W—APPEx 4S 1 layer

Asphalt (Interply): Trumbull*** or other JM-approved asphalt

**Incline per foot**
Up to ½” (41 mm/m) 190°F (88°C) Type III Steep
½” to 3” (41 to 250 mm/m) 220°F (104°C) Type IV Special Steep

**Surfacing:**
TopGard Type A 1¼ - 2 gal (0.7 - 0.8 l/m²)
TopGard Type B 2 - 3 gal (0.8 - 1.2 l/m²)
TopGard 4000 1½ - 2½ gal (0.6 - 0.8 l/m²) (over smooth sheets)
TopGard 4000 1½ - 2½ gal (0.6 - 0.8 l/m²) (over mineral sheets)
TopGard 5000 1½ - 2½ gal (0.6 - 0.8 l/m²) (over smooth sheets)
TopGard 5000 1½ - 2½ gal (0.6 - 0.8 l/m²) (over mineral sheets)
TopGard Base Coat 1½ - 2½ gal (0.6 - 0.8 l/m²) (over smooth sheets)
TopGard Base Coat 1½ - 2½ gal (0.6 - 0.8 l/m²) (over mineral sheets)
Fibrated Aluminum Roof Coating 2 gal (0.8 l/m²)

Approximate installed weight: 112 - 202 lb (51 - 92 kg).

General

This specification is for use over any type of approved structural deck
which is not nailable and which provides a suitable surface to receive
the roof. Poured and precast concrete decks require priming with JM
Concrete Primer prior to application of the first heat welded modified
bitumen ply. This specification is not to be used over poured or precast
gypsum decks, lightweight insulating concrete decks or fills without JM
insulation.

This specification is also for use over JM roof insulations, or other
approved roof insulations which are not nailable and which provide a
suitable surface to receive the roof. Specific written approval is required
for any roof insulation that is not supplied by JM. Insulation shall be
installed in accordance with the appropriate JM insulation specification
detailed in the JM Commercial/Industrial Roofing Systems Manual. This
specification can also be used in certain re-roofing situations. Refer to
the “Re-roofing” section of the JM Commercial/Industrial Roofing Systems
Manual.

Design and installation of the deck and/or roof substrate must result in
the roof draining freely, to outlets numerous enough and so located as
to remove water promptly and completely. Areas where water ponds for
more than 24 hours are unacceptable and will not be eligible for a JM
Peak Advantage Guarantee.

Flashings

Flashing details can be found in Section 3 of the JM Commercial/Industrial

Application

Roll an 18” (457 mm) wide piece of one of the base plies listed into a full
mopping of bitumen. Over that, apply a full width piece. The remaining
plies are to be applied full width with 3” (76 mm) side and 4” (102 mm) end
laps over the preceding sheets. Do not glaze coat felts.

Apply all felts so that they are firmly and uniformly set, without voids,
into the hot bitumen. Bitumen temperature should be the Equiviscous
Temperature (EVT), ±25°F (±14°C), at the point of application. All felt edges
shall be well sealed. The bitumen shall be applied just before the felt, at
a nominal rate of 23 lb/100 ft² (1.1 kg/m²). When applying over insulations,
more than 23 lb/100 ft² (1.1 kg/m²) of bitumen may be needed due to
the absorbency of the insulation.

Heat weld a full width piece of one of the cap sheets listed so that it is
firmly and uniformly set. Subsequent sheets are to be applied in the same
manner, with 4” (102 mm) side and 6” (152 mm) end laps over the preceding
sheets. All laps must be rolled with a 3” (76 mm) rounded edge roller. A ¾”
to 2” (3 mm to 10 mm) bleedout of APP compound shall be visible at the
edge of all seams. All laps must be checked for good adhesion.

Application of JM APP modified bitumen products may require the
use of an open flame propane torch. Improper use of these materials
and application equipment can result in severe burns, and/or other
physical injury, as well as damage to property. In order to prevent these
situations the mechanic must install the materials using the techniques
recommended by JM and those found in “A Guide to Safety: Torch-On
Modified Bitumens” available from the Asphalt Roofing Manufacturers
Association. These techniques have been endorsed by the National
Roofing Contractors Association and the United Union of Roofers,
Waterproofers and Allied Workers.

For cold weather application techniques, refer to Paragraph 14.0 of
Section 3k of the JM Commercial/Industrial Roofing Systems Manual.

Steep Slope Requirements

Special procedures are required on inclines over ½” per ft (41 mm/m).

Surfacing

Smooth-surfaced membranes must be coated with a JM-approved
coating. The coating chosen will depend on aesthetics and any fire rating
or code approval required.

Asphalt

Asphalt should meet the requirements of ASTM D 312. JM guarantees
require the use of Trumbull*** asphalt or another JM-approved asphalt.

* This is a special order product. Contact your JM sales representative about availability and
lead time.

** Trumbull is a registered trademark of Owens Corning.

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

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