

Product Evaluation

RC730 | 1023

Engineering Services Program

The following product has been evaluated for compliance with the wind loads specified in the International Residential Code (IRC) and the International Building Code (IBC).

This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.

This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code, and the Texas Engineering Practice Act.

For more information, contact TDI Engineering Services Program at (800) 248-6032.

Evaluation ID: RC-730

Effective Date: October 1, 2023

Re-evaluation Date: October 2027

Product Name: IKO Roof-Fast Modified Bitumen Roof Covering System

Manufacturer: IKO Industries Ltd.
40 Hansen Road South
Brampton, ON L6W 3H4
(905) 457-2880

General Description:

- **IKO Roof-Fast Cap** SBS modified bitumen self-adhered fire-resistant roll roofing membrane intended for use as a cap sheet.
- **IKO Roof-Fast Base** SBS modified bitumen self-adhered fire-resistant roll roofing membrane intended for use as a base sheet.

Adhesive:

- **IKO AquaBarrier Mastic** modified asphalt sealant for sealing terminations, membrane edges, and around penetrations.

Primers (Optional):

- **IKO S.A.M. Adhesive Primer** is a quick-drying, solvent-based surface preparation.
- **IKO S.A.M. Adhesive LVC Primer** is a low Volatile Organic Compound (VOC), solvent-based surface preparation.

Limitations and Installation:**General Installation Requirements:**

All IRC and the IBC requirements must be satisfied, and the manufacturer's installation instructions followed, unless otherwise specified by this product evaluation.

Positive Drainage: Roof decks, on which this product is to be installed upon, must be provided with positive drainage. A minimum roof slope after construction of 1/4" per foot is recommended. Minimum roof slope requirements must be in accordance with the membranes and base sheets used.

If prime decks are required, they should be in accordance with requirements and recommendations of the primer and deck manufacturer. For re-roofing application, prime existing roof surfaces as necessary with an asphalt primer and allow to dry prior to installing the roofing system.

Roof Covering Replacement versus Roof Covering Recover: All existing roof coverings must be completely removed and a new roof covering installed if any of the following conditions occur:

- The existing roof or roof covering is water soaked or has deteriorated to the point that the existing roof or roof covering is not adequate as a base for the additional roof covering.
- The existing roof has two or more applications of any type of roof covering.

Roof Framing: The maximum allowable spacing of the roof framing must not exceed 24" on center for wood structural panel roof decks and 60" on center for steel roof decks.

Application: The systems must not be loose laid or ballasted.

Design Wind Pressures: The design wind uplift pressures must be specified in the systems listed in this evaluation report.

Roof Deck: For new roof covering applications, the roof deck must be secured to the roof framing to resist the required uplift loads.

Installation over an Existing Roof Covering: The existing roof covering must be removed, and the existing roof deck inspected, before applying the new roof covering.

General Installation Requirements: All International Residential Code (IRC) and International Building Code (IBC) requirements must be satisfied, and manufacturer's installation instructions followed, unless otherwise specified by this product evaluation. All fasteners and caps must corrosion resistance as specified in the IRC and the IBC.

System 1 – Singly-Ply Self-Adhered**Design Pressure: -135 psf**

Roof Deck: The roof deck must consist of minimum nominal 15/32" wood structural panels.

Optional: IKO S.A.M. Adhesive Primer or IKO S.A.M. Adhesive LVC Primer applied as per manufacture's application instructions.

Cap Sheet: IKO Roof-Fast Cap self-adhered with 3.5" side laps, applied membrane rolled with 60-100lb roller according to the manufacturer's application instructions.

System 2 – Two-Ply Self-Adhered

Design Pressure: -150 psf

Roof Deck: The roof deck must consist of minimum nominal 15/32" wood structural panels.

Optional: IKO S.A.M. Adhesive Primer or IKO S.A.M. Adhesive LVC Primer applied as per manufacture's application instructions.

Base Sheet: IKO Roof-Fast Base self-adhered with 3.5" side laps, applied membrane rolled with 60-100lb roller according to the manufacturer's application instructions.

Cap Sheet: IKO Roof-Fast Cap self-adhered with 3.5" side laps, applied membrane rolled with 60-100lb roller according to the manufacturer's application instructions.

System 3 – Two-Ply Mechanically Adhered

Design Pressure: -45 psf

Roof Deck: The roof deck must consist of minimum nominal 15/32" wood structural panels.

Base Sheet: IKO Roof-Fast Base with release liner on and 3.5" side laps, applied membrane according to the manufacturer's application instructions.

Fasteners: The base sheet is secured to the roof deck using galvanized steel, 12Ga, 1-1/4" rink shank roofing nails through galvanized steel 32Ga, 1-5/8" diameter caps. The cap nails are spaced a maximum of 6" on center in the side laps and three rows in the field, staggered, and a maximum of 9" on center.

Cap Sheet: IKO Roof-Fast Cap self-adhered with 3.5" side laps, applied membrane rolled with 60-100lb roller according to the manufacturer's application instructions.

System 4 – Two-Ply Mechanically Adhered

Design Pressure: -30 psf

Roof Deck: The roof deck must consist of minimum nominal 15/32" wood structural panels.

Anchor Sheet: ASTM D226 Type II applied according to the manufacturer's application instructions.

Fasteners: The anchor sheet is secured to the roof deck using galvanized steel, 12Ga, 1-1/4" rink shank roofing nails through galvanized steel 32Ga, 1-5/8" diameter caps. The

cap nails are spaced a maximum of 6" on center in the side laps and two rows in the field, staggered and a maximum of 12" on center.

Base Sheet: IKO Roof-Fast Base self-adhered with 3.5" side laps, applied membrane rolled with 60-100lb roller according to the manufacturer's application instructions.

Cap Sheet: IKO Roof-Fast Cap self-adhered with 3.5" side laps, applied membrane rolled with 60-100lb roller according to the manufacturer's application instructions.

Note: Keep the manufacturer's installation instructions available on the job site during the installation. Use corrosion resistant fasteners as specified in the IRC and the IBC.