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**2.01.1 General**

- A.** Prior to job commencement, frequent communication between all parties is encouraged to ensure the intended design and materials planned for use are compliant with building code requirements, suitable to the building owner's needs and understood by the contractor.
- B.** Where appropriate, either for contractual obligations or other requirements, arrangements must also be made beforehand for independent third-party inspection of all installation work.

**2.02.1 Safety**

- A.** Working on scaffolding and/or below grade is potentially dangerous, and workers must be properly trained and equipped to prevent injury to themselves, building occupants or other tradespeople. Local labor departments typically dictate job site and employee safety precautions, equipment and training required; however, the following partial reminder list may be helpful to raise awareness of the many hazards associated with building envelope work:
  - Working at heights (fall-arrest prevention, guardrails).
  - Hot materials (e.g. open flames).
  - Propane.
  - Electrical risks (overhead wires, live conduits inside walls).
  - Risks and hazards from other trades.
  - Power tools (saws, drills, nail guns, etc.).
  - Ladders and scaffolds.
  - Material safety (materials such as solvent-based adhesives).
  - Housekeeping issues.
  - First aid/CPR training.
  - Falling objects (hazard to workers at ground level).
- B.** Various Canadian provincial safety associations have also published comprehensive roof safety literature. WorkSafeBC offers a good overview of construction safety procedures in their downloadable pdf booklet available at this link here: [www.worksafebc.com](http://www.worksafebc.com).
- C.** Comply with all applicable health and safety laws and regulations in your area.

**2.03.1 Applicability**

- A.** IKO building envelope products are applicable for many commercial, industrial and residential applications under a variety of wall system designs.
- B.** IKO building envelope products are not applicable where the structural integrity of the wall is insufficient to properly support and receive the IKO materials.
- C.** Contact the local building code official, prior to bidding, with regard to wall systems that are subject to building code requirements. If there are questions after contacting the local building code official, contact the IKO Technical Services Department to determine which system will meet the building code requirements or other authorities of jurisdiction.
- D.** IKO building envelope product specifications are published for the sole purpose of defining the minimum requirements necessary to facilitate proper use and installation of their products. IKO suggests that an architect, engineer or other design professional be consulted to address conditions beyond the scope of these installation guidelines and to ensure appropriate design and application.

**2.04.1 Job Site and Weather Considerations**

- A.** All components of the new IKO building envelope system shall be protected from harmful discharges, such as petroleum byproducts, solvents, vegetable oil, animal fat and other byproducts that may come into direct contact with the components.
- B.** With the exception of initial installation, all IKO system components shall be protected from direct contact with excessive heat sources that may cause damage while in service.
- C.** Cold weather applications (temperatures at or approaching freezing) may require special measures to ensure proper application and performance of the building envelope system. It may be necessary to unroll and cut the membrane into shorter lengths to allow them to flatten and warm up prior to application. Storage in a heated area immediately prior to application is recommended. Install membrane immediately after removal from storage to avoid cooling to ambient temperature.

- D.** Application procedures must be altered, and perhaps discontinued, when water, in any form, is present on the wall surface. If water, dew, frost or snow is present at the time of application, then poor adhesion or blistering may result of building envelope membranes. Any moisture that could cause poor adhesion or entrapment within the system must be removed from the substrate before work can continue.
- E.** Exercise caution during heat-fusing applications. Do not overheat heat-fused membranes to compensate for cold temperatures or windy conditions. Generally, the mechanic's speed of application will require adjustment to compensate for slower heat fusing of the membrane in these situations.
- F.** All surfaces to receive IKO membranes must be smooth, dry and free of contaminants, such as ice, oil, dirt, grease, dust, surface moisture or any other material that may interfere with proper adhesion.
- G.** IKO membranes should not be installed during rain or snow conditions.
- H.** Examine the condition of surfaces intended to receive IKO building envelope products to ensure they are in satisfactory condition for commencement of work outlined in subsequent sections of this manual.
1. Concrete blocks:
    - a. Unevenness between blocks must not exceed one-eighth inch (1/8") (3 mm).
    - b. Excess mortar in joints must be removed.
    - c. Holes and opening in blocks or mortar must be patched.
  2. Cast-in-place concrete:
    - a. Ridges at the frame work joints must not exceed one-quarter inch (1/4") (6 mm).
    - b. Remove all lumps of concrete – surfaces to be flat.
    - c. All surfaces must be clean and dry, free from laitance, release form oils, etc.
    - d. Tie holes must be filled with appropriate material.
    - e. Ensure concrete is cured and dried for a minimum of 14 days in dry weather. In cold or wet weather, longer cure times may be required. Field verification test of adhesion may be performed if adequate membrane adhesion is a concern.
  3. Prefabricated panels (concrete, plywood, gypsum board, etc.):
    - a. Panels accepted are limited to those presently used for roof support decks.
    - b. Unevenness at panel joints must not exceed one-quarter inch (1/4") (6 mm).
    - c. Joint openings greater than three-quarters inch (3/4") (19 mm) must be filled with compatible mortars (concrete panels) or covered with metal (wood or gypsum panels).
- I.** Ensure the integrity of the air-vapour barrier will not be compromised by deficiencies in the substrate, including, but not limited, to sharp protrusions, voids, unevenness in joints, etc.

## 2.05.1 Delivery, Handling and Storage

- A.** All materials shall be delivered and stored in accordance with the manufacturer's recommendations.
- B.** When outdoor storage of insulation is unavoidable, the insulation shall be stacked on pallets a minimum of four inches (4") (100 mm) above ground level and covered with a waterproof tarp. The insulation manufacturer's packaging is not considered waterproof and shall be slit, as recommended by the manufacturer, to reduce condensation inside the packaging.
- C.** Store all membrane materials in a dry, well-ventilated area. Remove materials only as needed for daily work.
- D.** During winter, store roll goods in above-freezing temperatures to minimize product damage. Store pails of adhesives, primers and mastics in accordance with the manufacturer' recommendations.
- E.** Roll materials must be stored on end with selvage edge up. Do not double-stack roll goods or skids of Protectoboard. In extremely hot weather, avoid storing Protectoboard in direct sunlight to avoid the product sticking together.
- F.** All materials damaged during storage or transport shall be removed from the job site and replaced.

**End of Section**