Super Sky

Skylight
Repair and Renovation
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As the premier worldwide designer, manufacturer, and installer of commercial and residential skylight systems, Super Sky Products Enterprises, LLC sets the industry’s standards for excellence. Super Sky has over 85 years of experience, and has earned the reputation of being able to manufacture custom skylight systems ranging from the simplest design to the greatest range of complexity.

In addition to manufacturing custom skylights and sloped glazing systems, Super Sky offers highly skilled skylight repair and replacement services. Our technicians are dedicated to ensuring your skylight system maintains its aesthetic appeal, energy efficiency and leak resistant capabilities.

It all starts with an inspection/evaluation by a Super Sky expert technician:

**Repair:**
- Elimination of leaks
- Replace broken glass
- Onsite water testing

**Recaulk:**
- Remove existing sealant and re-seal
- Options include: new caps, retainers, gaskets, wet seals and flush glazed horizontal joints
- New five (5) year warranty against leakage

**Reglaze:**
- New high performance, laminated/insulated safety glazing
- New caps, retainers, gaskets, wet seals and flush glazed horizontal joints
- New five (5) year warranty against leakage

**Replace:**
- Skylight replacement should be considered when existing skylight structures are unable to be salvaged and may not meet today's building codes
- New custom extruded aluminum framed system
- New high performance, insulated/laminated safety glazing
- New five (5) year warranty against leakage

Super Sky's professional skylight technicians always complete skylight repair, renovation and replacement services within budget. We are committed to providing you with the best materials, highest level of workmanship and unmatched customer satisfaction, as we understand and appreciate your investment. **Don't let your failing skylight system go another day...Get in touch with Super Sky today!**

John G. Shedd Aquarium skylight during renovation.
The John G. Shedd Aquarium, a Chicago landmark on the shores of Lake Michigan, was built in 1930. Super Sky was selected to resolve complex leakage and structural problems, and return the facility to optimum operational condition, eliminate safety hazards, and maintain the architectural integrity of the edifice.

Skylight Details:
- 8-segmented dome skylight measuring 75-ft. in diameter positioned over the main atrium of the building.
- After years of exposure, the original ¼-inch single layer wire glass was cracked, broken and had little thermal resistance.
- The original framework was in a dire state of deterioration, and the supporting steel was rusted, a problematic situation that resulted in serious leakage issues.

Replacement Details:
- High humidity and condensation required Super Sky to custom design a thermally broken, 4-sided flush glazed skylight system with large internal gutters.
- Custom aluminum extrusions were utilized at each crossbar to simulate the original “lapped glass” look of the skylight.
- Glazed with high performance insulated/laminated Low “E” safety glazing.
- A special lifting rig was built at the dome hips to elevate the heavy ornamental cresting, allowing access to the steel below so it could be refurbished and painted. Super Sky’s membrane and stainless steel flashing were installed underneath, before the cresting was set back onto the steel.
- Super Sky also custom designed an access hatch, located directly above the center of the dome, allowing space for a ladder to extend up through the skylight for maintenance on Neptune’s scepter.

Super Sky devised and constructed an elaborate scaffolding walkway system to facilitate the repair/renovation project, and the Aquarium’s daily operations were not disrupted.
Three existing ridge skylights, on three separate terminals, were renovated by replacing the caps, flashing and caulking. During Super Sky’s in-depth inspection, the glass was determined to be intact and did not require replacement.

**Skylight Details:**
- Ridge units with segmented domed ends, sitting on short-vertical walls around the entire perimeter of each unit.
- Skylight area totaling 12,500 sq. ft.

**Renovation Details:**
- Pressure plates and caps were replaced with new extruded aluminum pressure plates, caps, silicone gaskets and fasteners.
- Sill flashing was replaced with 26-gauge stainless steel redesigned with a positive slope to the exterior sill.
- The redesign provided room to apply a continuous seal between the bottom of the sill and the new flashing, preventing water infiltration.
Monroe Building - 104 S. Michigan Avenue
Chicago, Illinois

Existing outdated and deteriorated framed skylights (a unique feature on the green tiled gable roof) were removed and replaced by Super Sky. The replacement eliminated multiple structural problems, preserved the original architectural integrity, and maintained the building’s original function.

Skylight Details:
- Eight (8) units totaling 1,975 sq.ft.
- Single-pane wire glass, installed in 1912.

Renovation Details:
- Extensive field measuring and project coordination.
- Removal of existing skylights.
- Fabricated and installed modern extruded aluminum framing and new copper flashing.
- Glass was replaced with insulated/laminated high performance Low “E” glazing.

Quaker Bridge Mall
Lawrence Township, New Jersey

Like many large shopping malls built in the 1970’s & 1980’s, the roof of the Quaker Bridge Mall had several original skylights that consisted of clusters of acrylic barrel vaults separated by stainless steel gutters. These acrylic skylights were antiquated and in serious need of replacement.

Skylight Details:
- Thirteen (13) skylight units totaling 15,285 sq.ft.

Renovation Details:
- Extensive field measuring and project coordination.
- Super Sky developed a new plan to eliminate the stainless steel gutters that were contributing to the water infiltration.
- Replaced the existing skylights with custom aluminum framing and flat multi-wall polycarbonate sheets, eliminating the need for gutters.
- After hours installation performed to facilitate the mall’s holiday season operation.
The existing skylight over the main atrium of the hotel entrance was reglazed by Super Sky to eliminate leakage problems, as well as improve the aesthetic appearance of the area. The existing skylight and side lites had seal failures that left the glass lites fogged and opaque.

Skylight Details:

• Single Slope measuring 36-ft. X 52-ft. with two vertical side walls on each side of the main slope.

Renovation Details:

• Extensive field measuring and project coordination.
• Glass replaced with tinted insulated/laminated, high performance Low “E” glazing.
• Existing framework cleaned and new gaskets were installed.
• Original horizontal pressure plates were eliminated in favor of new flush silicone joints (promoting the flow of water).
• New pressure plates, trim caps and painted aluminum flashing were installed.
Chicago Cultural Center - Preston Bradley Hall
Chicago, Illinois

Chicago Cultural Center opened in 1897 with a glass skylight above an interior Tiffany glass domed laylight, the single largest Tiffany dome in the world according to the Center. In 1935, the original glass skylight above the Tiffany dome was replaced with a precast concrete and copper roof, eliminating light exposure to the American artwork treasures below. In 2007 (72 years later), the decision was made to restore the exterior skylight to its original conceptual design utilizing transparent glass, and restore the 30,000 individual pieces of stained glass and 5,568 chipped glass jewels to their original splendor.

Skylight Details:
- The replacement dome skylight “cover” measures 43-ft. 6-in. in diameter at the base and 22-ft. 0-in. tall from the existing roof to the peak of the 6-sided cupola.
- Located in a 51 foot square, 2-story deep, recess on the south end of Preston Bradley Hall.

Renovation Details:
- Based on extensive field measuring and coordination, Super Sky designed and developed a new extruded aluminum skylight frame which was erected piece-by-piece, and attached to existing iron structure with aluminum support clips.
- Insulated/laminated high performance Low “E” glass was individually set into the frame with a crane.
- New pressure plates and trim caps, flush-horizontal silicone joints, flashing and new ventilation louvers were installed.
Existing acrylic multiple dome skylights on a gutter system, supported by a steel space frame were removed and replaced by Super Sky to eliminate leakage problems, and update with a state-of-the-art structure.

Skylight Details:
• Custom Pyramid measuring 70-ft. x 90-ft.

Renovation Details:
• Removed existing acrylic skylight system.
• Fabricated and installed a new extruded aluminum framed, energy efficient skylight system with minimal disruption of daily operations.
• New tinted laminated safety glazing.