

**Renovate by Berkowitz, LLC.**

**Architectural Glazing Guide Specification for RENOVATE by Berkowitz, LLC (RbB)  
(RbB Platinum Plus) (RbB Platinum Plus II) (RbB Platinum Plus II XL)**

## **Section 08 51 13–Window Glazing Retrofit**

*(Note to Specification Writers, the specifications below are offered as desirable inclusions in the window retrofit system specification.*

### **PART 1 - GENERAL**

#### **1.01 SUMMARY**

- A. Section Includes: Renovate by Berkowitz, LLC is available as RbB Platinum, RbB Platinum Plus II, and RbB Platinum Plus II XL.
- B. Related Sections:
  - 1. Drawings, General and Supplementary Conditions of the Contract, Division 1 and the following specifications sections apply to this section.
  - 2. Section 08 44 00 -Curtainwall and Glazed Assemblies
  - 2. Section 08 51 13 - Aluminum Windows

#### **1.02 REFERENCES**

- A. United States
  - 1. ASTM 1036
  - 1. ANSI Z97.1 – American National Standard for Glazing Materials Used in Buildings – Safety
  - 2. ASTM C1048 – Standard Specification for Heat-Treated Glass – Kind HS, Kind FT Coated and Uncoated Glass.
  - 3. ASTM C1376 – Standard Specification for Pyrolytic and Vacuum Deposition Coatings on Glass.
  - 4. CSPC 16 CFR 1201– Safety Standard for Architectural Glazing Materials.
  - 5. ISO 9001-2008 Certification.

#### **1.04 SYSTEM DESCRIPTION**

- A. Design Requirements
  - 1. Provide Renovate Window Retrofit Technology system by Berkowitz, LLC hermetically sealed, factory-manufactured, insulating glass units to the existing, inside surface of the exterior, single or monolithic glazing.

#### **1.05 SUBMITTALS**

- A. Submit 12-inch sample of each type of glass indicated.
- B. Submit glass manufacturer’s product sheet and glazing instructions.
- C. Submit sill extender if required
- D. Mockup: A full system mockup is required prior to commencing commercial installation. Mock up not to exceed 150 Square Feet.

## **1.06 QUALITY ASSURANCE**

- A. Obtain the RbB Window retrofit system from the manufacturer with installation by a Certified Dealer/Installer only.
- B. Provide a structural engineer analysis of existing framing system and building system to determine proper support prior to installation.
- C. Provide water and air tests of existing framing system prior to installation.
- D. Manufacturer to be ISO 9001-2008 Certified.

## **1.07 DELIVERY, STORAGE AND HANDLING**

- A. Comply with manufacturer's instruction for receiving, handling, storing and protecting retrofit system and glazing materials.
- B. Delivery: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.
- C. Storage and Protection: Store materials protected from exposure to harmful environmental conditions and at temperature and humidity conditions recommended by the manufacturer.
- D. Exercise care to prevent damage to glass and damage/deterioration to coating on glass.

## **1.08 PROJECT SITE CONDITIONS**

- A. Do not install glazing when interior glass surface temperature is less than 50 degrees F (10 C)
- B. Field Measurement: Verify field measurements with drawing dimensions prior to fabrication of window retrofit system.

## **1.09 WARRANTY**

- A. Provide a written 10-year limited material warranty from date of manufacture for retrofit glazing system.
- B. Provide a two-year limited warranty on labor

## **PART 2 - GENERAL**

### **2.01 MANUFACTURERS**

- A. Acceptable manufacturers:
  - 1. Renovate™ by Berkowitz, LLC (1-800-257-7827)
  - 2. No Substitutes permitted.

### **2.02 MATERIALS**

*(Designer to choose one of three available window retrofit systems.)*

#### **A. WINDOW GLAZING RETROFIT SYSTEM**

- RbB Platinum
- 1) Outboard lite: Existing Glass
  - 2) ½" Desiccated structural spacer with permanent Adhesive Sealant, Airspace
  - 3) Middle Glass Type: 3/16" (5mm), Clear Guardian SN68 #4, Heat Treated or Guardian SN68 #4 Heat Treated, or equivalent
  - 4) Airspace: ½" (12mm) Black 3Seal Spacer, 90% Argon filled
  - 5) Inboard Lite: 3/16" (5mm) Clear Float, Heat Treated

- RbB Platinum Plus II
- 1) Outboard lite: Existing Glass
  - 2) ½” Desiccated structural spacer with permanent Adhesive Sealant, Airspace
  - 3) Middle Glass Type: 3/16” (5mm), Clear Guardian SN68 #4, Heat Treated or Guardian SN68 #4 Heat Treated, or equivalent
  - 4) Airspace: ½” (12mm) Black 3Seal Spacer, 90% Argon Filled
  - 5) Inboard Lite: 3/16” (5mm) Guardian IS-20, or equivalent #6 surface, Heat Treated

- RbB Platinum Plus II XL
- 1) Outboard lite: Existing Glass
  - 2) ½” Desiccated structural spacer with permanent Adhesive Sealant, Airspace
  - 3) Middle Glass Type: 3/16” (5mm), Clear Guardian SNX62/27 #4, Heat Treated or Guardian SN68 #4 Heat Treated, or equivalent
  - 4) Airspace: ½” (12mm) Black 3Seal Spacer, 90% Argon Filled
  - 5) Inboard Lite: 3/16” (5mm) Guardian IS-20, or equivalent #6 surface, Heat Treated

## **B. PERFORMANCE CHARACTERISTICS:**

- 1) Center of Glass. Computed with LBNL Windows 6.3. Assumes clear existing lite.
  - a) RbB Platinum: R-Value 5.56 / SHGC 0.42
  - b) RbB Platinum Plus II: R-Value 6.67 / SHGC 0.35
  - c) RbB Platinum Plus II XL: R Value 6.67 / SHGC 0.27
- 2) Provide hermetically sealed IG units with dehydrated airspace, dual air seal of black polyisobutylene (PIB), and a secondary seal of black silicone.

## **PART 3 - EXECUTIONS**

### **3.01 EXAMINATION**

- A. Site Verifications and Conditions
1. Verify that site conditions are acceptable for the installation of the glass (see 1.06).
  2. Verify openings for glazing are correctly sized within tolerance.
  3. Verify that a functioning weep system is present.
  4. Verify that the minimum required face and edge clearances are being followed.
  5. Do not proceed with retrofit glazing until satisfactory conditions for temperature (see 1.08 A) have been followed and all film (if found) removed.

### **3.02 PREPARATION**

- A. Protection
1. Approved certified Dealer/Installer to clean and prepare existing windows for acceptance of the window retrofit system as determined by Renovate by Berkowitz, LLC.

### **3.03 INSTALLATION**

1. Dealer/Installer shall be Certified by Renovate by Berkowitz, LLC in accordance with installation procedures
2. Do not install window retrofit system when inside glass surface temperature is less than 50 degrees F.

### **3.04 CLEANING**

- A. Remove window film if previously installed
- B. Pre- Installation- Clean components per the Renovate by Berkowitz, LLC installation program guidelines.
- C. Glass to be cleaned according to:
  1. GANA Glass Informational Bulletin GANA 01-0300 – “Proper Procedure for Cleaning Architectural Glass Products.”
  2. GANA Glass Informational Bulletin GANA TD-02-0402 – “Heat Treated Glass Surfaces are Different.”
- D. Do not use razor blades, scrapers or metal tools to clean glass.

### **END OF SECTIONS**