

OKALUX Plus Light Diffusing Insulated Glass Specification

Part 1. General

1.01 Summary:

1.01.1 OKALUX Plus light diffusing insulated glass with capillary slab and glass fiber tissue is provided by OKALUX North America, LLC.

1.02 Submittals:

1.02.1 Product Data: Manufacturer's catalogs and technical literature showing performance properties and recommended installation procedures.

1.02.2 Submit minimum 12" x 12" samples of OKALUX Plus light diffusing insulating glass as required.

1.03 Delivery, Storage, and Handling:

1.03.1 Deliver OKALUX Plus light diffusing glass in manufacturer's original packaging.

1.04. Warranty

1.04.1 Provide a 10-year warranty to include the provision of replacement insulated glass units which exhibit moisture or other substances on either of the inner glass surfaces caused by a failure of the hermetic seal that is not attributed to glass breakage, improper installation or cleaning and maintenance contrary to the manufacturer's written instructions.

Part 2. Product

2.01 Manufacturer:

OKALUX GmbH
Syracuse, New York Plant

North American Distribution:

OKALUX North America, LLC
180 S. Broadway, Suite 408
White Plains, NY 10605
Tel: 914 202-0284
Fax: 914 607-7797
donald.press@okaluxna.com

2.02 Materials:

2.02.1 Description of Product

OKALUX Plus light diffusing insulating glass with capillary slab and glass fiber tissue.

2.02.2 Glass make up:

Outer pane: ____“(mm) tempered or heat strengthened float glass with Guardian SN68 low e coating on surface #2 (or other coating as agreed). Please specify clear, low iron or tinted glass as required.

Cavity: 9/16” (14mm) overall with 5/16” (8 mm) __ (air, argon or krypton) filled cavity and 6mm PMMA acrylic UV stable capillary slab encased in fiber tissue. Capillaries are not to exceed 3 mm diameter to assure proper diffusion.

Inner pane: ____“(mm) tempered, heat strengthened, or laminated float glass with PVB interlayer. Please specify clear, low iron or tinted glass as required.

Sealant: Dual sealed units:
Primary sealant: Polyisobutylene
Secondary sealant: Silicone

Calculations: Glass make-up and thickness to be confirmed by glazing contractor and façade engineer to meet project load and local code requirements.

Size: OKALUX Plus, when supplied without a white inner mullion, has a maximum smaller dimension of 48” (1220mm) Maximum larger dimension is 137” (3500mm). When both dimensions exceed 48”, a white inner mullion is required to stabilize the capillary slab within the insulated unit. Maximum dimension with the white inner mullion is 78” x 137” (2000mm x 3500mm).

2.02.3 Performance Values

OKALUX light diffusing glass insulating glass shall perform optically and thermally based upon the following:

Light Transmission _____ 37% maximum
SHGC (TSET) _____ .31% maximum
U-value) _____ air .28, argon .24, krypton .18 (btu/hr/sf/°F)

Part 3. Execution

3.01

3.01.1 **Examination:** The glazing contractor shall examine the framing and glazing channel surfaces and backing as well as the conditions under which the glazing is to be performed. The glazing contractor shall also inspect each OKALUX unit prior to installation. Any units deemed to be damaged or of questionable quality should be brought to the attention of the supplier, OKALUX North America, LLC, immediately and prior to installation.

3.01.2 **Glazing:** OKALUX Plus should be installed in accordance with the general rules applicable for insulating glass. The glazing plane support system

must be free of any internal obstructions and structurally adequate for the application.

3.01.3 **Installation:** As with any insulated glass, the dimensions of units used are limited by the type, thickness of glass and project load requirements.

Part 4. Warranty

The warranty extends 10 years from date of delivery under the conditions of normal usage and approved installation. OKALUX's instructions for ordering and installation must be followed.

OKALUX Plus insulated solar control glass will not fail with respect to the perimeter sealing. The warranty includes thermal breakage due to climatic influence if the glass is installed in accordance with approved installation drawings. OKALUX's liability under this warranty is limited solely to the delivery of a replacement unit to the site of installation. Written notice of warranty claim must be provided to the supplier within 90 days of noticing unit failure. OKALUX reserves the right to inspect the unit to verify justification of warranty claim. Replacement units are warranted for the remainder of the original warranty period. The above warranty does not apply to or cover materials that have not been paid for in full.