

OKALUX Light Diffusing Insulated Glass Specification

Part 1. General

1.01 Summary:

1.01.1 OKALUX 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 Infotext showing performance properties and recommended installation procedures.

1.02.2 Submit minimum 8" x 11" samples of OKALUX light diffusing insulating glass as required.

1.03 Delivery, Storage, and Handling:

1.03.1 Deliver OKALUX 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

97828 Marktheidenfeld
Germany

North American Distribution:

OKALUX North America, LLC

White Plains, NY 10605

Tel: 914 202-0284

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2.02 Materials:

2.02.1 Description of Product

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

2.02.2 OKALUX glass make up:

Outer pane: ____ “(____mm) tempered, heat strengthened, or laminated glass with ____ “ PVB interlayer. Specify glass type: clear, low iron or _____ tinted glass.

Cavity: ____ “ (____ mm) air filled cavity with PMMA acrylic, UV stable, capillary slab encased in SAB fiber tissue. Capillaries are not to exceed 3mm diameter to assure proper diffusion.

Inner pane: ____ “ (____mm) tempered, heat strengthened, or laminated glass with ____ “ PVB interlayer. Specify glass type: clear or low iron.

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.

2.02.3 Performance Values

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

Light Transmission VLT	_____	≤ 48% as specified
SHGC (TSET)	_____	≤ 45% dependent upon VLT
U-value)	.44 btu/hr./°F based upon 1” (24mm) OKALUX	

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 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 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.