

# KAPILUX W Light Diffusing Insulated Glass Specification

## Part 1. General

### 1.01 Summary:

1.01.1 KAPILUX W light diffusing insulated glass with white capillary slab inside the cavity 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 8" x 11" samples of KAPILUX W light diffusing insulated glass as required.

### 1.03 Delivery, Storage, and Handling:

1.03.1 Deliver KAPILUX W 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  
Am Jösershecklein 1  
97828 Marktheidenfeld  
Germany

### 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

KAPILUX W light diffusing insulated glass with clear capillary slab inside the cavity.

### 22.02.2 Glass make up:

Outer pane: \_\_\_\_ “ ( \_\_\_\_ mm) tempered, heat strengthened, or laminated glass with \_\_\_\_ “ PVB interlayer. Specify glass type: clear, low iron or tinted.

Air-space: 14 mm white PMMA acrylic UV stable capillary slab.  
Capillaries are not to exceed 3 mm diameter to assure proper diffusion.

Inner pane: \_\_\_\_ “ ( \_\_\_\_ mm) tempered, heat strengthened, or laminated glass with \_\_\_\_ “ PVB interlayer. Specify glass type: clear, low iron or tinted.

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

KAPILUX W light diffusing insulated glass shall perform optically and thermally based upon the following:

Light Transmission VLT	_____	≥ 37 % as specified
SHGC (TSET)	_____	≥ 35 % depending upon VLT
Shading Coefficient (SC)	_____	≥ 41% depending upon VLT
U-value)	_____	≥ .41 btu/hr./f2/°F depending upon make-up

## 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 KAPILUX W 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:** KAPILUX W 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.

KAPILUX W 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.