

Okalux K Light Diffusing Insulated Glass Specification

Part 1. General

1.1 Summary:

1.01.1 Okalux K light diffusing insulated glass with capillary slab and glass fiber tissue is provided by Okalux North America LLC.

1.2 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 Okalux K light diffusing insulating glass as required.

1.03 Delivery, Storage, and Handling:

1.03.1 Deliver Okalux K 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

2.1 Manufacturer:

Okalux GmbH
Am Jöspershecklein 1
97828 Marktheidenfeld
Germany

North American Distribution:

Okalux North America, LLC
180 S. Broadway, suite 408
White Plains, NY 10605
Tel: 914 202-0284
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2.2 Materials:

2.02.1 Description of Product

Okalux K 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 SN 68 coating on side #2

1st Cavity: 12mm argon gas filled

Middle pane: ___ mm tempered or heat strengthened float glass

Air-space: 12 mm 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 heat strengthened, tempered or laminated float glass with .030 pvb interlayer.

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	_____ % (< .43 and > .09 as specified)
SHGC (TSET)	_____ % (as specified but dependent on VLT)
U-value)	.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 inspect each Okalux K unit prior to installation. Any units deemed to be damaged or of questionable quality should be brought to the attention of the supplier, Schott North America, Inc, 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.