

## **SAMPLE PROJECT**

### **Written Specification Example: ORNILUX Bird Protection Glass by Arnold Glas**

*ORNILUX Bird Protection Glass is available as double or triple-glazed insulated units, paired with Arnold Glas low-E coatings by Arcon, and as triple laminated glass for railings and glass walls. Example specification for each noted below.*

*IGU example is written referencing the Sunbelt A70 low-E option. See ORNILUX brochure for specific glass builds for each low-E type. Note: one pane of an ORNILUX IGU is laminated glass. Surface location of ORNILUX Mikado and low-E coatings varies by tested configuration.*

#### **1) INSULATING GLASS TYPES (Bird Protection Glass)**

- a) Glass Type GL-1a: ORNILUX Mikado A70 Low-e coated insulating glass; bird-friendly
  - i) Basis-of-Design: Arnold Glas, Corp.; ORNILUX Mikado on surface #3 and Sunbelt A70 low-e on surface #2;
  - ii) Exterior Glass Ply: 6mm
  - iii) Space: 10mm black warm edge spacer; argon filled
  - iv) Silicone: black
  - v) Interior Glass Ply: 8.76mm laminated glass; made of 2 x's 4mm panes + 0.76mm PVB interlayer
  - vi) Performance Requirements:
    - (1) Visible Light Transmittance: 65% or better
    - (2) Winter U-Value: 0.25 or better
    - (3) Summer U-Value: 0.25 or better
    - (4) Solar Heat Gain Coefficient: 0.33 or better
    - (5) Light to Solar Gain (LSG): 2.0
    - (6) Material Threat Factor: =/< 30 (AI score: =/> 70%). Scores achieved via testing by American Bird Conservancy

#### **2) INSULATING GLASS TYPES (Color Matched Non Bird Protection Glass)**

- a) Glass Type GL-1b: SOLARLUX A70 Low-e coated insulating glass
  - i) Basis-of-Design: Arnold Glas, Corp.; Sunbelt A70 low-e on surface #2;
  - ii) Exterior Glass Ply: 6mm
  - iii) Space: 12mm black warm edge spacer; argon filled
  - iv) Silicone: black
  - v) Interior Glass Ply: 6mm
  - vi) Performance Requirements:
    - (1) Visible Light Transmittance: 68% or better
    - (2) Winter U-Value: 0.25 or better
    - (3) Summer U-Value: 0.25 or better
    - (4) Solar Heat Gain Coefficient: 0.34 or better
    - (5) Light to Solar Gain (LSG): 2.0

### 3) LAMINATED GLASS TYPES

- a) Glass Type GL-2: Triple laminated glass; fully tempered; clear; bird-friendly
  - i) Basis-of-Design: Arnold Glas; ORNILUX Mikado on surfaces #2 and # 5
  - ii) Exterior Glass Ply: 4mm; fully tempered; clear; ORNILUX Mikado on surface #2
  - iii) Interlayer: 0.76mm PVB
  - iv) Middle Glass Ply: 4mm; fully tempered; clear
  - v) Interlayer: 0.76mm PVB
  - vi) Interior Glass Ply: 4mm; fully tempered; clear; ORNILUX Mikado on surface #5