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