



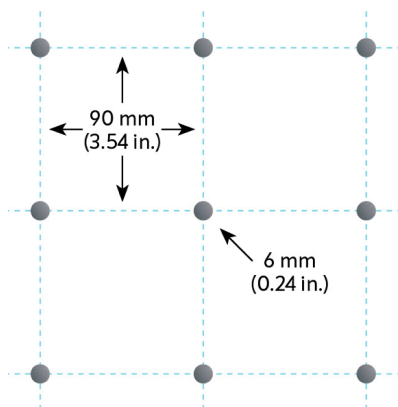
## BIRDPRO™ LAM

### DESCRIPTION

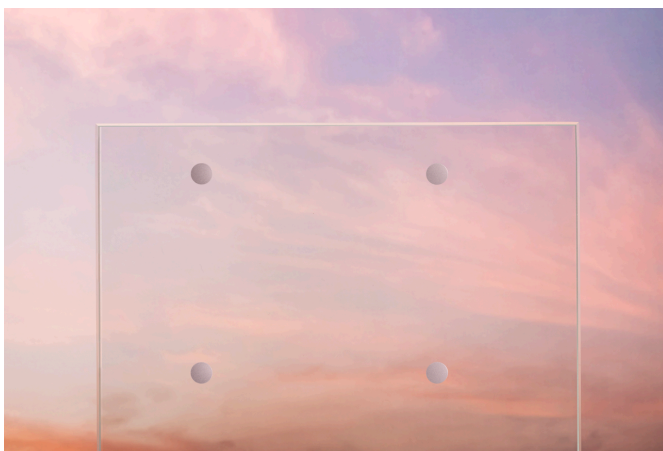
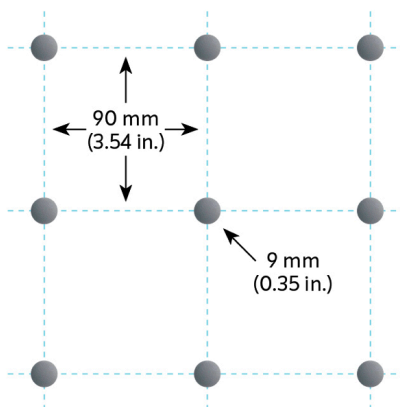
BIRDPRO™ LAM is a bird-friendly glass with special interlayers that are tested to drastically mitigate the chances of bird collisions and protect bird populations while offering various functional and technical benefits. The interlayer features a patterned design that provides a visual cue to birds, making it easier for them to recognize the glass as an obstacle and avoid collisions. In addition to its bird-friendly properties, BIRDPRO™ LAM also offers high-performance solar control and thermal insulation for enhanced energy efficiency. The pattern covers the entire window and consists of 3D sequins available in two sizes, 6 mm (0.24 in.) or 9 mm (0.35 in.) in diameter, separated on all sides by 90 mm (3.54 in.) and oriented equivalently in both horizontal rows and vertical columns. This includes two sequin color options - silver matte and shiny. In addition, BIRDPRO™ LAM can be configured with a 9-mm shiny sequin for both the interior and exterior sides, which is ideal for noise protection walls.

### DESIGN TYPES

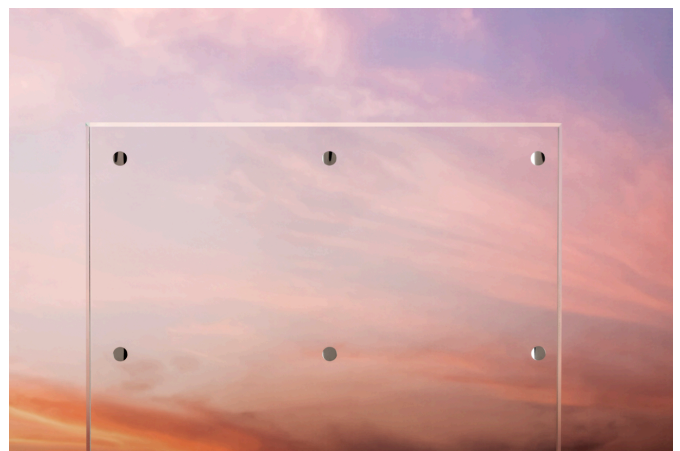
6-mm grid pattern



9-mm grid pattern



Shiny Sequin



Matte Sequin

## TECHNICAL SPECIFICATIONS

SEQUIN TYPE EXTERIOR   INTERIOR	GRID PATTERN (MM)	THREAT FACTOR	SURFACE COVERAGE (%)
Shiny silver   Black	6   90	13	< 0.5%
Matte silver   Black	6   90	13	< 0.5%
Shiny silver   Black	9   90	9	< 1.0%
Matte silver   Black	9   90	9	< 1.0%
Shiny silver   Shiny silver	9   90	6	< 1.0%

## PRODUCT FAMILY

1. BIRDPRO™ LAM FIRST: Clear bird-friendly laminated glass unit
2. BIRDPRO™ LAM CLARITY: Ultra clear bird-friendly laminated glass unit
3. BIRDPRO™ LAM TONE: Tinted bird-friendly laminated glass unit
4. BIRDPRO™ LAM SOLAR: Solar-control coated bird-friendly glass unit (pyrolytic or MSVD coated)
5. BIRDPRO™ LAM PRO-1: Pyrolytic low-E/single-silver low-E bird-friendly glass unit (pyrolytic/MSVD)
6. BIRDPRO™ LAM PRO-2: Double-Silver low-E bird-friendly glass unit (MSVD)
7. BIRDPRO™ LAM PRO-3: Triple-Silver low-E bird-friendly glass unit (MSVD)
8. BIRDPRO™ LAM PRO-4: Quad-Silver low-E bird-friendly glass unit (MSVD)

## GENERAL CHARACTERISTICS

FEATURE	DESCRIPTION
Process Type	Special bird-friendly interlayers laminated between glass lites
Glass Types	Clear, extra clear, ultra clear, tinted, solar-control coated, low-E coated
Threat Factor	6 to 13 (as per American Bird Conservancy)
Additional Process Compatibility	Holes, cutouts and notches
Product Enhancement	Can be converted to CLIMACOOL (insulated glass), LAMISECURE (laminated glass), BULLETSHIELD, BURGLARSHIELD, BLASTSHIELD and FLAMESHIELD units
Glass Thickness	4 mm to 25 mm
Edge Types	Rough grind, arrissed, super polished
Emissivity	Minimum 0.01**

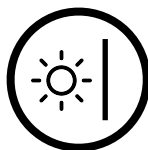
\*\* Lower emissivity only applicable for insulated or laminated glass assemblies.

## UNIQUE SELLING POINTS



### DURABLE CHOICE

Sequins are protected from the elements and cleaning tools and fluids



### MINIMAL VISUAL OBSCURING

Discreet and optimally placed sequins to avert birds without compromising views (<1% coverage)



### DESIGN FREEDOM

Mitigate bird strikes without compromising on safety, security, structural integrity, aesthetics, UV screening, or acoustic control

## DIMENSIONS

FEATURE	DESCRIPTION
Minimum Size	200 mm X 300 mm
	2440 mm X 3660 mm (4 mm and 5 mm)
Maximum Size	3000 mm X 5100 mm (6 mm)
	3000 mm X 6000 mm (8 to 19 mm)

## LABELLING

Each piece of BIRDPRO™ LAM shall be permanently labeled with the FG logo, process type and relevant standard description. In cases where the glass is made under a specific listing, the same shall be incorporated in the label. Order-specific labeling is also possible, under certain terms and conditions.

## STANDARDS

BIRDPRO™ LAM is manufactured as per BIS 2553: Part 1 (2018), EN 12150, ASTM C1048 and/or AS/NZS 2208: 1996.

## LISTINGS

1. Bureau of Indian Standards IS 2553: Part 1 (2018) - License Number 78001028
2. StandardsMark License AS/NZS 2208: 1996 - License Number SMK41109
3. Safety Glazing Certificate Council ANSI Z97.1 - 2015 & CPSC 16 CFR 1201 - License Number 8344 & 8355

## STORAGE

BIRDPRO™ LAM requires storage in a covered, dry area, unexposed to rain and dust. Each sheet of BIRDPRO™ LAM should be separated with the help of non-adhesive transferring cork/rubber pads. Prolonged storage without separation or with paper separation may result in permanent and irreversible damage to the glass surface. This is even more critical for coated surfaces.