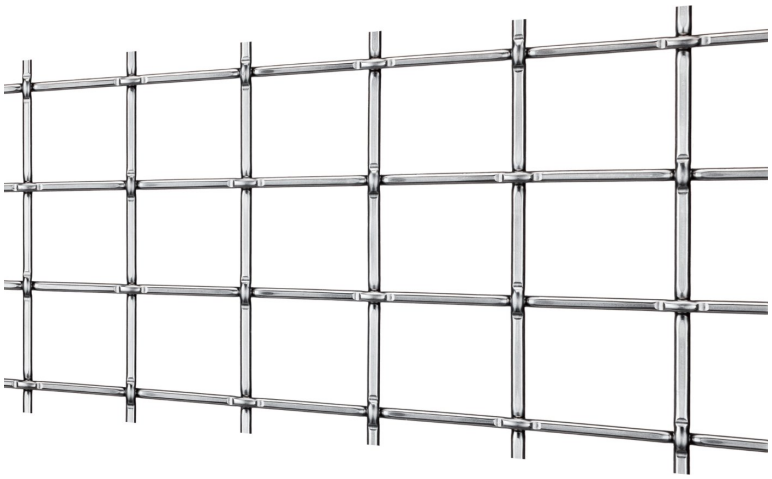
# AXIS 81

Woven stainless steel architectural wire mesh



This modern high-definition lock crimp wire mesh blends classic square mesh design, fits seamlessly with all types of structures, and offers an economical yet timeless choice for versatile design needs. It excels in safety guardrails, facade sunshades, parking garage ventilation and heavy-duty partitions.

## Technical Data

| | |
|---|---|
| **Model** | AXIS 81 |
| **Series** | AXIS |
| **Construction** | Heavy lock crimp |
| **Panel type** | Rigid |
| **Open area** | 81.7% |
| **Overall thickness** | 25/64" (9.75 mm) |
| **Aspect ratio (opening)** | 1.00:1 |
| **Wire diameter (nominal)** | 0.193" (4.9 mm) |
| **Opening (nominal, W x H)** | 1.803" x 1.803" (45.8 x 45.8 mm) |
| **Wire centers (nominal)** | 1.996" x 1.996" (50.7 x 50.7 mm) |
| **Opening limitation (largest sphere)** | 1.803" (45.8 mm) |
| **Weight (nominal, stainless steel)** | 6.2 kg/m² (1.27 lb/ft²) |
| **Standard materials** | Stainless steel 304 / 316, Plain / galvanized steel, Aluminum, Brass, Bronze, Copper |
| **Finishes** | Mill, brushed or electropolished; powder coating (any RAL); PVD colors (titanium gold, rose gold, champagne, black titanium); antique plating (interior only) |
| **Supply format** | Rolls, cut sheets or framed panels made to your drawings. Maximum size depends on pattern and alloy - send your opening sizes for confirmation. |

## Weight by Material (nominal)

| Material | kg/m² | lb/ft² |
|---|---|---|
| Stainless steel 304 / 316 | 6.2 | 1.27 |
| Plain / galvanized steel | 6.1 | 1.26 |
| Aluminum | 2.1 | 0.44 |
| Brass | 6.7 | 1.37 |
| Bronze | 6.9 | 1.41 |
| Copper | 7.0 | 1.43 |

## Key Features

- High-definition lock crimp square mesh
- Very high transparency and airflow
- Economical, timeless choice that fits any structure

**Ideal for:** Safety guardrails, facade sunshades, parking garage ventilation and heavy-duty partitions.

## Performance & Design Data

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|---|---|
| **Solidity (1 - open area)** | 18.3% |
| **Geometric cut-off angle (short opening)** | 78° |
| **Railing infill check (100 mm / 4" sphere)** | Openings smaller than 100 mm (4") |
| **Fire behaviour** | Bare stainless steel is a non-combustible metal. Coated, plated or backed finishes: classification per project test report. |
| **Corrosion guidance** | 304 for interiors and protected exteriors; 316 / 316L for exterior, coastal and polluted environments. |

Beyond this incidence angle, direct light and view through the short opening are blocked (louver effect).

## Installation & Framing

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|---|---|
| **Recommended fixing** | Framed panels (flat bar or angle), or a tensioned facade system: flat tension profile with clevis bolts top and bottom, compression springs at the base and intermediate supports at each floor. |

## How to Specify

1. Pattern name, e.g. AXIS 81
2. Material and grade, e.g. Stainless steel 316
3. Finish, e.g. PVD Black Titanium or RAL 9005
4. Panel width x height and quantity
5. Opening direction (rectangular patterns)
6. Edge or frame profile and size
7. Indoor or exterior, and site location
8. Target delivery date

*Nominal values are calculated from pattern geometry for stainless steel and may vary by approx. 10-15%. Weights for other alloys are calculated from the stainless steel value. Wire diameter, opening, alloy, finish and panel size can be customized - please confirm final specifications with a physical sample.*