

ARANYA SUPPLY PLUS CO., LTD.

ZOO MESH

CONNECTING PEOPLE, PROTECTING WILDLIFE

STAINLESS STEEL FERRULE MESH



STAINLESS STEEL WOVEN MESH

BROAD EXPERIENCE, VISION, AND RELIABILITY

A TRUSTED PARTNER TO THE ARCHITECTURAL AND ZOOLOGICAL INDUSTRY WORLDWIDE

Aranya Supply Plus Co., Ltd. Zoo Mesh provides valuable support to architects, designers, metal fabricators, and enclosure specialists involved in outstanding architectural and zoological projects across the globe.

With years of proven experience, Aranya Supply Plus Co., Ltd. Zoo Mesh has been delivering high-quality stainless steel wire rope meshes that seamlessly combine aesthetic appeal and structural performance. From custom-designed enclosures to standardized mesh systems, our products have become the preferred choice for projects that demand safety, elegance, and long-term durability.

Our commitment to innovation, precision engineering, and sustainable design continues to make Aranya Supply Plus Co., Ltd. Zoo Mesh a trusted name in modern zoo architecture, wildlife enclosures, and architectural mesh solutions worldwide.





Woven Mesh

FLEXIBLE • DURABLE • TRANSPARENT

At Aranya Supply Plus Co., Ltd., our Woven Mesh is crafted to meet the highest standards of safety, strength, and visual appeal. Designed for use in modern zoo enclosures, aviaries, and wildlife habitats, this mesh is made from premium-grade AISI 304 or 316 stainless steel wire ropes that are hand-woven to create a knot-type, diamond-shaped pattern.

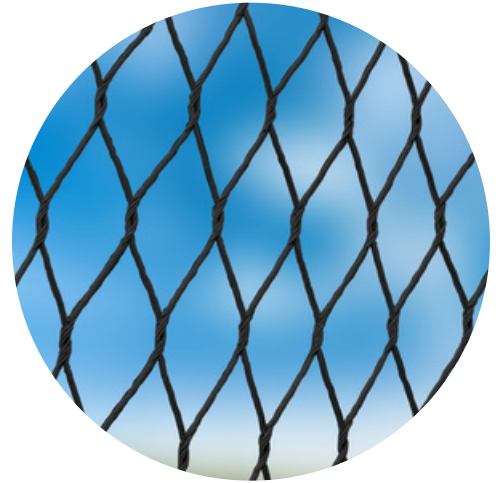
Each connection point is meticulously interlaced to provide exceptional flexibility and strength, allowing the mesh to adapt to curved, naturalistic enclosure designs.

The hand-woven structure ensures a uniform tension, capable of withstanding high impacts while maintaining an elegant, open appearance.

Ideal for big cats, primates, birds, and small mammals, Woven Mesh offers a secure yet nearly invisible barrier, giving visitors a crystal-clear view of the animals. Its corrosion resistance, UV stability, and minimal maintenance make it a long-lasting solution for both indoor and outdoor environments.

KEY FEATURES

- 100% stainless steel (AISI 304 / 316)
- Hand-woven diamond mesh structure
- Superior tensile strength and flexibility
- Resistant to corrosion and weathering
- Customizable mesh aperture and cable diameter
- Lifespan exceeding 30 years



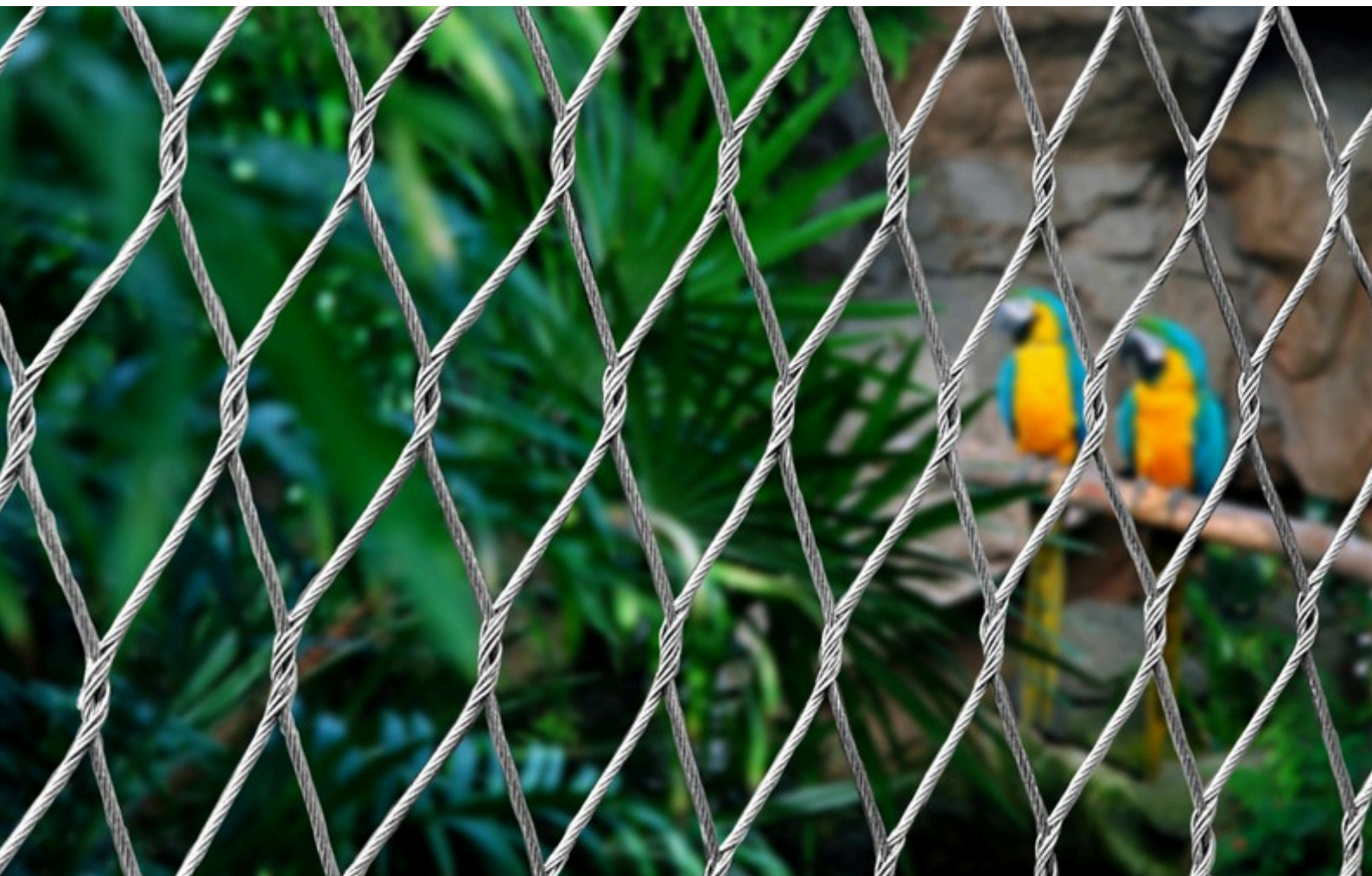
Stainless steel (Black color)

APPLICATIONS

- Zoo and wildlife enclosures
- Aviaries and bird domes
- Primate climbing structures
- Big cat habitats
- Walk-through animal tunnels
- Safety barriers and decorative fencing



Stainless steel



Material Composition

Parameter	Description
Wire Material	AISI 304, 304L, 316, or 316L Stainless Steel (marine grade)
Construction Type	Hand-woven "knot" style mesh with interlaced rope intersections
Cable Construction	7×7 or 7×19 stranded stainless steel wire rope
Surface Finish	Natural stainless steel (matte finish) or optional PVC coating
Mesh Type	Diamond-shaped, knot-interwoven structure
Connection Type	Each wire rope is manually interwoven and knotted at crossover points (no ferrules used)

Dimensional Specifications

Parameter	Range / Options
Cable Diameter	1.2 mm - 4.0 mm
Mesh Aperture (Opening Size)	20×20 mm to 300×300 mm
Mesh Angle	60° (standard diamond pattern)
Standard Panel Width	Up to 30 m (custom dimensions available)
Panel Height	Up to 15 m (customizable)
Weight	Approx. 0.4–4.0 kg/m² depending on wire size and aperture
Breaking Load (Typical)	1000 N - 16,000 N depending on diameter

Mechanical & Performance Properties

Property	Value / Description
Tensile Strength (wire)	≥ 1570 N/mm ²
Flexibility	Excellent - ideal for curved, organic, and 3D enclosures
Impact Resistance	High - absorbs animal contact and movement loads
Wind Load Capacity	Up to 200 km/h (depending on frame design)
Temperature Resistance	-40°C to +400°C
Corrosion Resistance	Marine-grade performance; ideal for outdoor and humid conditions
UV Resistance	Excellent - unaffected by sunlight exposure

Recommended Mesh Selection by Animal Type

Animal	Recommended Wire Diameter	Aperture Size
Small Birds	1.2 mm	20×20 mm
Parrots / Peacocks	1.6 mm	25×25 mm
Monkeys / Lemurs	2.0 mm	40×40 mm
Gibbons / Chimpanzees	2.4 mm	40×40 mm
Tigers / Leopards / Lions	3.2-4.0 mm	50×50 mm
Small Mammals	1.6 mm	30×30 mm



WOVEN MESH – NATURALLY STRONG, EFFORTLESSLY SAFE.
DESIGNED FOR ANIMAL WELFARE, ARCHITECTURAL BEAUTY, AND
LONG-TERM RELIABILITY IN EVERY HABITAT.

INSTALLATION & STRUCTURAL INTEGRATION

- **Support Framework:** Stainless steel or galvanized steel tubes and cables
- **Edge Fixing:** Rope-bound, clamped, or integrated into perimeter tension cables
- **Tensioning:** Achieved manually during installation for uniform tension.
- **Connection Hardware:** All made from AISI 316 stainless steel for outdoor durability
- **Installation Method:** Delivered as prefabricated mesh panels or rolls for on-site shaping
- **Maintenance:** Low maintenance; occasional inspection recommended for tension and cleanliness

CERTIFICATIONS & STANDARDS

- **Material Standard:** ASTM A580 / EN 10264-4 (stainless steel wire)
- **Manufacturing:** ISO 9001:2015 Quality Management System certified
- **Load Testing:** Complies with ASTM A931 tensile test requirements
- **Fire Safety:** Non-combustible material (ASTM E136, Class A)
- **Environmental Compliance:** 100% recyclable stainless steel, eco-friendly production



FERRULE TYPE MESH

MODERN • STRONG • SEAMLESS

Strength Meets Elegance in Every Strand
Stainless steel has long been admired by architects for its durability, versatility, and timeless appearance. At Goatrade Zoo Mesh, our flexible stainless steel wire rope mesh is crafted from premium-grade wire ropes, offering a perfect blend of strength, flexibility, and visual appeal.

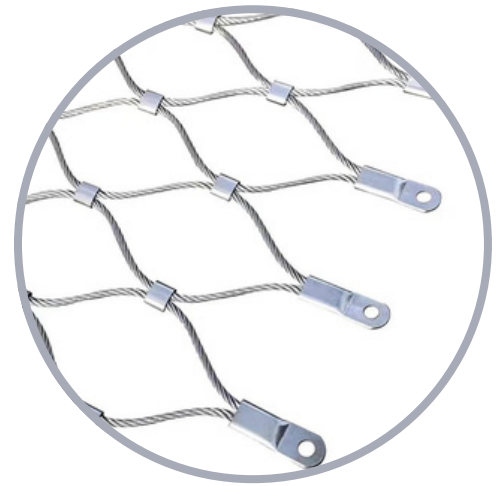
The distinctive diamond-shaped pattern provides an elegant, open look while maintaining exceptional tensile strength and resilience. Every mesh panel is precision-engineered and produced

under ISO 9001 quality standards, ensuring superior performance and long service life.

Lightweight yet remarkably strong, Goatrade's stainless steel mesh can withstand high loads and resist environmental wear, making it ideal for a wide range of applications — from zoo enclosures and safety barriers to architectural facades, balustrade infills, and green wall systems. Whether used indoors or outdoors, it delivers both safety and sophisticated design freedom.

KEY FEATURES

- Stainless steel provides the highest corrosion resistance.
- Elegant and robust.
- Light, robust yet transparent.
- UV and weather resistant.
- Flexible and pliable.
- Climb resistant and prevents a secure foothold.
- The minimum visual impact on views.
- Recyclable.
- Good price-benefit-ratio.
- Easy to assemble and low maintenance.
- Weave opening, meet any exact specification.



Ultrasonic Bath

APPLICATIONS

- Balustrade infill, balcony railings
- Animal enclosures
- Horizontal or vertical fall protection
- Bird screening
- Interior dividers
- Facade cladding
- Green wall systems or simply very flexible design elements.



Black Oxide

FERRULE TYPE MESH – ENGINEERED FOR STRENGTH, DESIGNED FOR THE WILD.
PERFECT FOR AVIARIES, PRIMATE ENCLOSURES, BIG CAT HABITATS, TUNNELS, FACADES,
AND ARCHITECTURAL SAFETY BARRIERS.



Material Composition

Parameter	Description
Wire Material	AISI 304, 304L, 316, or 316L Stainless Steel (Marine Grade)
Ferrule Material	Stainless Steel (AISI 304 or 316) – corrosion and UV resistant
Cable Construction	7×7 or 7×19 stranded wire rope
Surface Finish	Natural stainless steel or PVC-coated (optional)
Mesh Type	Diamond-shaped net, ferrule-interlinked structure
Connection Type	Pressed ferrules at crossover points (machine or hydraulic pressed)

Dimensional Specifications

Parameter	Range / Options
Cable Diameter	1.2 mm – 4.0 mm
Mesh Aperture (Opening Size)	20×20 mm to 300×300 mm
Mesh Angle	60° – 90° (standard 60°)
Standard Panel Width	Up to 30 m (custom sizes available)
Panel Height	Up to 15 m (customizable)
Weight	Approx. 0.5–4.5 kg/m² depending on wire size and aperture
Breaking Load (Typical)	1000 N – 16,000 N (based on diameter)

Mechanical & Performance Properties

Property	Value / Description
Tensile Strength (wire)	≥ 1570 N/mm²
Flexibility	Excellent - allows for curved and 3D designs
Impact Resistance	Withstands high dynamic loads (animal impact)
Wind Load Capacity	Tested for high wind zones up to 200 km/h (depending on frame design)
Temperature Resistance	-40°C to +400°C
Corrosion Resistance	Marine grade, suitable for coastal or outdoor use
UV Resistance	Excellent - stainless steel unaffected by UV radiation

Recommended Mesh Selection by Animal Type

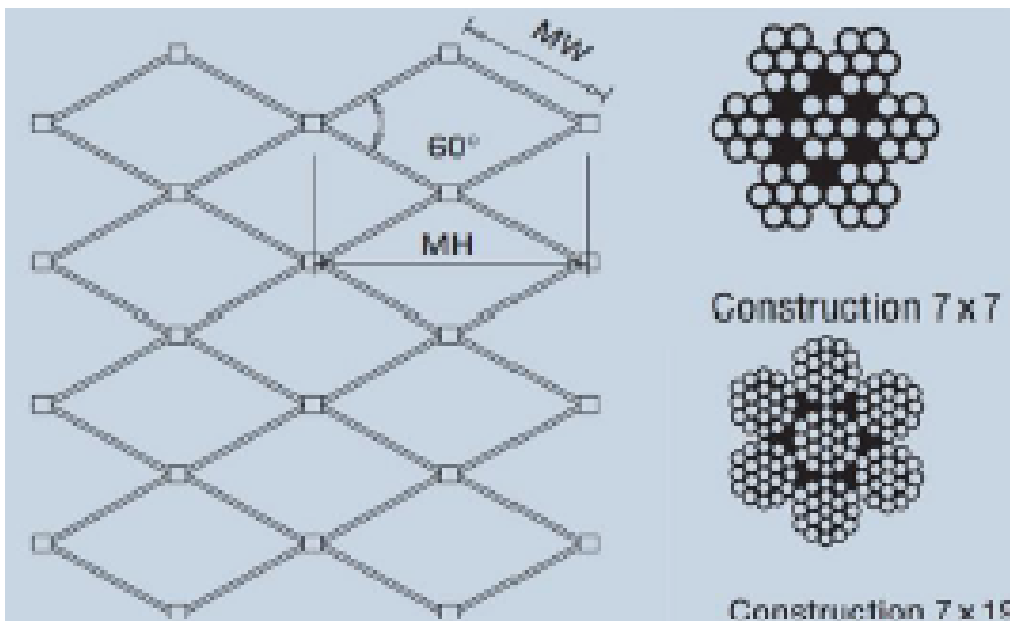
Animal	Recommended Wire Diameter	Aperture Size
Small Birds	1.2 mm	20×20 mm
Parrots / Macaws	1.6 mm	25×25 mm
Monkeys / Lemurs	2.0 mm	40×40 mm
Gibbons / Chimpanzees	2.4 mm	40×40 mm
Tigers / Leopards / Lions	3.2-4.0 mm	50×50 mm
Large Aviary Domes	2.0-3.2 mm	60×60 mm

SPECIFICATION

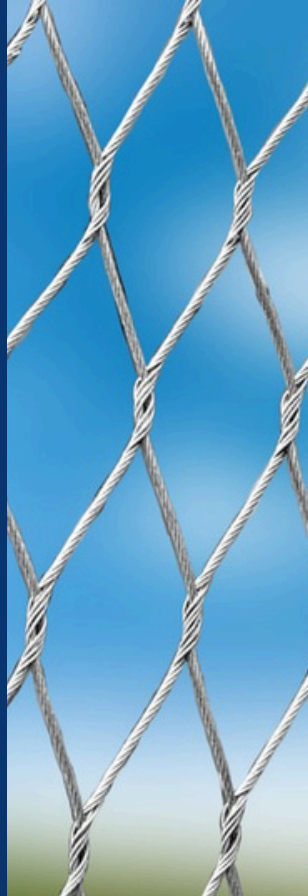
- Material: stainless steel 304, 304L, 316, 316L.
- Ferrule material: tinned copper, nickel plated copper, stainless steel.
- Surface treatment: silver or black oxide finish.
- Construction of wire cable: 7×7 , 7×19 .
- Cable diameter: 1.0–5.0 mm.
- Mesh opening sizes: 20–200 mm.
- Mesh opening angles: 20° , 30° , 60° , 70° , 75° . Mesh aperture at 60° as standard opening.
- Connection: ferrule or knotted.
- Certification: certified to EN1263-1 for static and dynamic load capacity.
- Ordering: specific to order, according to the project. The following specifications are that customers ordered frequently.

ROPE DIAMOND FERRULED MESH

Optimum tension is achieved when 60° angle is formed between the two equilateral triangles. Once installed, the mesh structure is very stable because the tension is distributed evenly over the entire mesh.



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