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ZM
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STAINLESS STEEL WIRE ROPE MESH

Technical Specification Catalog & Application Guide

Edition: 2026-V1

High-Security Containment | Architectural Elegance | Direct Factory Supply

MATERIAL & QUALITY ASSURANCE

Why ZooMesh Factory?

We specialize in hand-woven stainless steel wire rope mesh. Our products are engineered to provide the highest safety factor for animal containment while maintaining nearly 100% visual transparency.

1. Material Grades

- **AISI 304**: The standard for most zoo and architectural applications. Excellent corrosion resistance in inland environments.
- **AISI 316**: Premium Marine-Grade stainless steel. Essential for coastal projects within 5km of the sea.

2. Surface Finishes

- **Natural Stainless**: A bright, high-quality metallic finish.
- **Black Oxide**: A chemical treatment that darkens the steel. Ideal for exhibits because it eliminates glare and "disappears" against landscaping.

3. Manufacturing Standards

- **Hand-Woven (Interwoven):** No sharp ferrules; soft on feathers and skin.
- **7x7 Construction:** Standard flexibility for aviaries and safety netting.
- **7x19 Construction:** Ultra-flexible and high-strength for large predator impact.

TECHNICAL SPECIFICATION TABLE

Product Code	Diameter Ø	Mesh Aperture	Weight (kg/m2)	Min. Breaking Load (KN)
ZM-32102	1/8" (3.2mm)	4" x 4" (102mm x 102mm)	0.96	7.3
ZM-3276	1/8" (3.2mm)	3" x 3" (76mm x 76mm)	1.4	7.3
ZM-3250	1/8" (3.2mm)	2" x 2" (51mm x 51mm)	2.1	7.3
ZM-24102	3/32"(2.4mm)	4" x 4" (102mm x 102mm)	0.54	4.1
ZM-2476	3/32"(2.4mm)	3" x 3" (76mm x 76mm)	0.72	4.1
ZM-2450	3/32"(2.4mm)	2" x 2" (51mm x 51mm)	1.07	4.1
ZM-20102	5/64"(2.0mm)	4" x 4" (102mm x 102mm)	0.4	2.8
ZM-2076	5/64"(2.0mm)	3" x 3" (76mm x 76mm)	0.5	2.8
ZM-2050	5/64"(2.0mm)	2" x 2" (51mm x 51mm)	0.8	2.8
ZM-2038	5/64"(2.0mm)	1.5" x 1.5" (38mm x 38mm)	1.1	2.8
ZM-16102	1/16"(1.6mm)	4" x 4" (102mm x 102mm)	0.26	1.58
ZM-1676	1/16"(1.6mm)	3" x 3" (76mm x 76mm)	0.37	1.58
ZM-1650	1/16"(1.6mm)	2" x 2" (51mm x 51mm)	0.5	1.58
ZM-1638	1/16"(1.6mm)	1.5" x 1.5" (38mm x 38mm)	0.65	1.58
ZM-1625	1/16"(1.6mm)	1" x 1" (25mm x 25mm)	1.1	1.58
ZM-12102	3/64"(1.2mm)	4" x 4" (102mm x 102mm)	0.15	1.05
ZM-1276	3/64"(1.2mm)	3" x 3" (76mm x 76mm)	0.19	1.05
ZM-1250	3/64"(1.2mm)	2" x 2" (51mm x 51mm)	0.25	1.05
ZM-1238	3/64"(1.2mm)	1.5" x 1.5" (38mm x 38mm)	0.4	1.05
ZM-1225	3/64"(1.2mm)	1" x 1" (25mm x 25mm)	0.55	1.05

MEASUREMENT & ORDERING GUIDE

How to Measure Mesh Aperture

To ensure a perfect fit, we measure the "Diamond" from knot center to knot center.
1. Width (W): Horizontal distance across the diamond.
2. Height (H): Vertical distance across the diamond.60° or 90° for maximum stability.

Panel Customization

We manufacture panels to your exact requirements. Please specify:
- Horizontal Panels: Diamond width is larger than height.
- Vertical Panels: Diamond height is larger than width.

REQUEST A QUOTE CHECKLIST

Ready to order? Please provide the following details to our sales team:

1. Material Grade: (SS304 or SS316)
2. Wire Diameter & Mesh Size: (e.g., 1.6mm x 25mm)
3. Total Area: (500m2)
4. Panel Sizes: (e.g., 10 panels of 5m x 10m)
5. Project Location: (For shipping calculation)

CONTACT

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