

SPIRALFORM

# Spiral Mesh

*Architectural spiral mesh for facades, partitions, balustrades and shading systems*

# Contents

---

*A complete guide to the KAPHS SpiralForm range —  
concept, applications, finishes, fixing systems and the  
full seven-pattern product library.*

<b>01</b>	Introduction	03
<b>02</b>	Product Description	04
<b>03</b>	How It's Made	05
<b>04</b>	Applications	06
<b>05</b>	Finishes	11
<b>06</b>	Fixing Systems	14
<b>07</b>	Product Range	17
<b>08</b>	Customisation & Materials	25
<b>09</b>	Contact	26

## INTRODUCTION

# Transparency, structure, rhythm.

KAPHS SpiralForm is an architectural spiral mesh system designed to deliver a balance of transparency, structure, and visual rhythm.

Constructed from interlocking spirals connected by horizontal rods, it forms a continuous surface that interacts dynamically with light and perspective.

*Developed for modern architecture, SpiralForm provides controlled openness for daylight, airflow and visibility — equally suited to interior and exterior use, and capable of effects ranging from light and transparent to defined and textured.*

7

PATTERNS

2

MATERIALS

∞

FINISHES



# Transparency, structure, rhythm.

---

## Architectural spiral mesh

KAPHS SpiralForm is an architectural spiral mesh system designed to deliver a balance of transparency, structure, and visual rhythm. Constructed from interlocking spirals connected by horizontal rods, it forms a continuous surface that interacts dynamically with light and perspective.

Developed for modern architecture, SpiralForm provides controlled openness for daylight, airflow and visibility, making it suitable for both interior and exterior applications. Its flexible configurations allow designers to achieve a range of effects, from light and transparent to more defined and textured surfaces. Durable and versatile, KAPHS SpiralForm is ideal for façades, partitions, balustrades, and shading systems, offering a refined material solution for contemporary architectural design.





# How SpiralForm is made.

---

## 01 Wire selection

Stainless or aluminium wire — flat or round — is selected for the required diameter, grade and finish.

## 02 Helical forming

Wire is precision-wound into continuous helices on dedicated forming machines, producing the spiral element.

## 03 Spiral interlocking

Adjacent spirals are interlocked along their length, threading into one another to form a continuous fabric.

## 04 Cross rods & finish

Horizontal rods are inserted to lock the geometry; the panel is cut to size and the chosen finish is applied.

# 04 Applications

*Where SpiralForm performs — facades, interiors, balustrades and shading.*



# Facade Cladding

---

*A secondary skin with rhythm, transparency and depth.*

KAPHS SpiralForm spiral mesh is widely used as a secondary skin for façades, providing solar shading, ventilation, and a dynamic architectural expression while maintaining outward visibility. Its continuous, drapeable geometry allows large uninterrupted runs and curved geometries that redefine the building envelope.



# Interior Partitions

---

*Permeable separations that let light and space breathe.*

As a spiral mesh solution, SpiralForm is ideal for space division, creating subtle separation without blocking light or openness while adding texture and depth to interiors. Suitable for retail, hospitality and commercial environments where openness, acoustics and material warmth matter.



# Balustrades & Safety Screens

---

*Strength and lightness in a single surface.*

This architectural spiral mesh combines transparency with structural integrity, offering a safe and visually lightweight solution for railings, mezzanines and protective barriers. Specified with appropriate spiral pitch and cross-rod density, SpiralForm meets aperture and impact criteria while preserving openness.



# Shading & Screening Systems

---

*Engineered control of light, heat and view.*

SpiralForm spiral mesh functions effectively as a screening system, reducing glare and heat gain while allowing airflow, suitable for both interior and exterior applications. Specified across spiral pitch and cross-rod density to tune transparency, solar performance and view-out.

# 05

# Finishes

*Two principal finishing routes — protection, performance, refinement.*

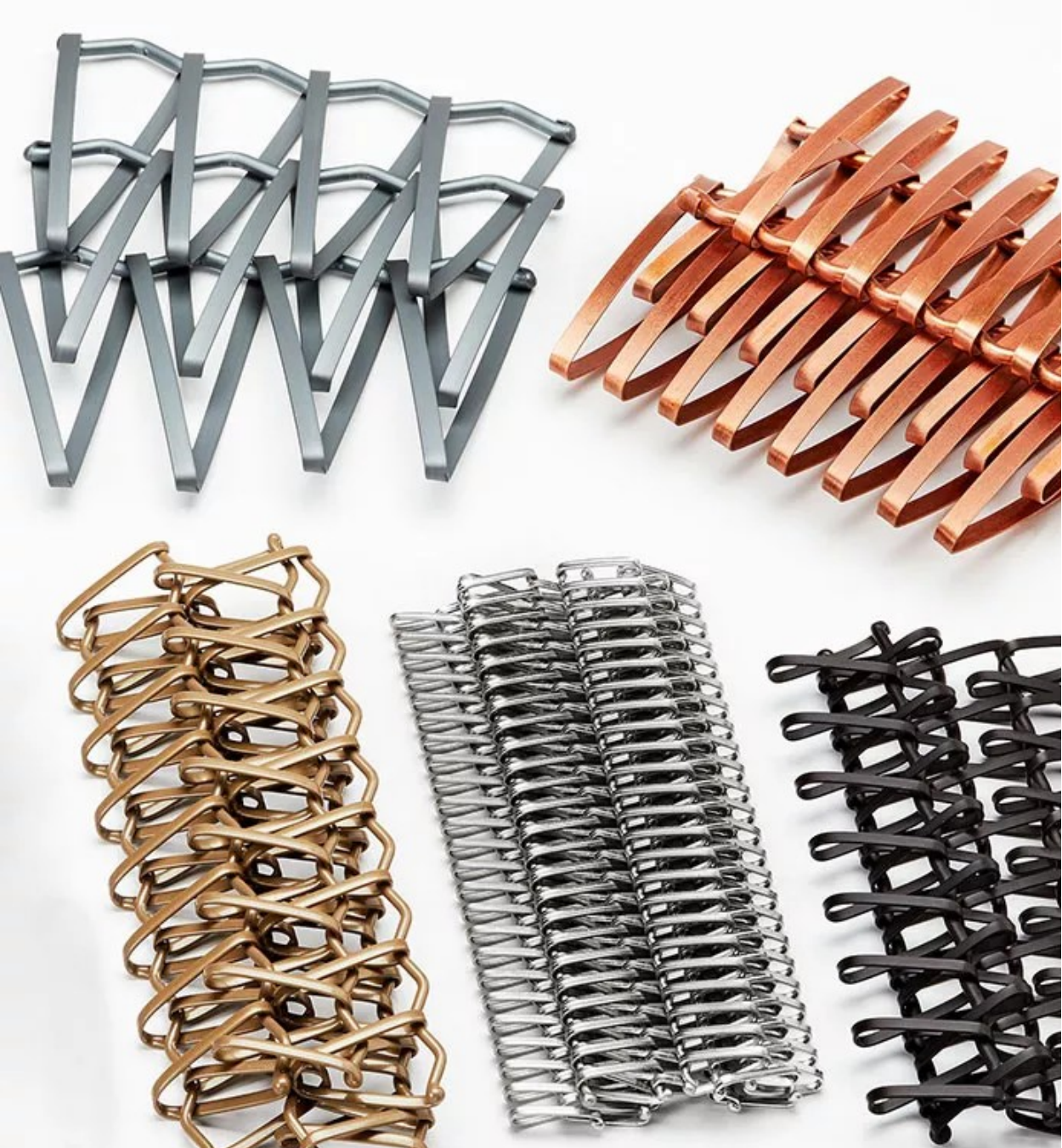


# Mill Finish

---

*The raw character of spiral mesh.*

A mill finish represents the natural, untreated surface of SpiralForm spiral mesh after production. This raw appearance is ideal for projects seeking an industrial or minimalist aesthetic. As it does not include additional protective coating, it is best suited for interior applications or low-exposure environments.



# Powder Coating (Aluminium)

---

*Durable colour. Engineered to last.*

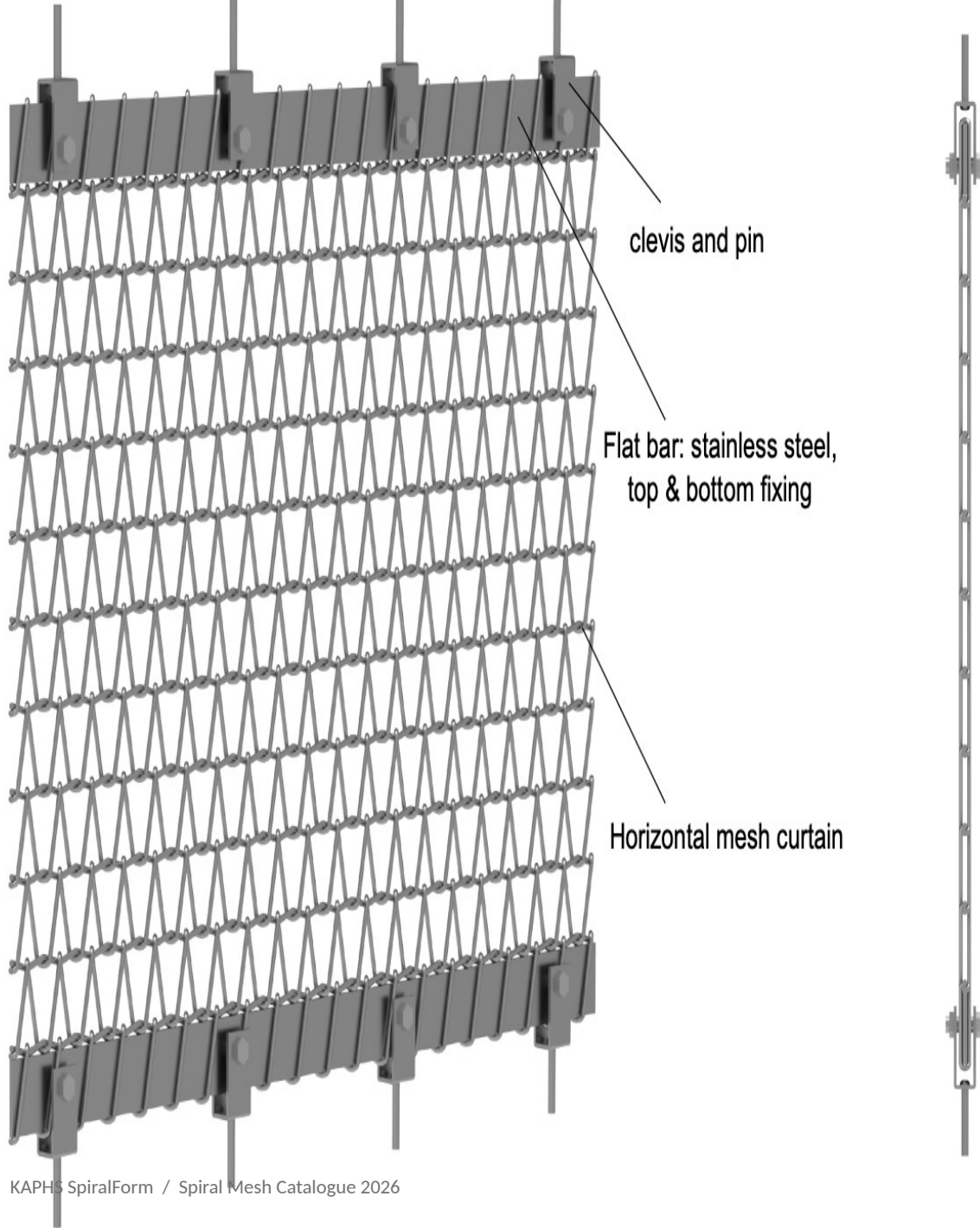
Powder coating is one of the most popular finishes for SpiralForm. The process creates a durable, uniform coating available in a wide range of RAL colours. It provides excellent resistance to corrosion, UV exposure and surface wear, making it ideal for both interior and exterior architectural applications.

# 06

# Fixing Systems

*Two principal fixing systems — for structural confidence and architectural clarity.*

# Flat Bar



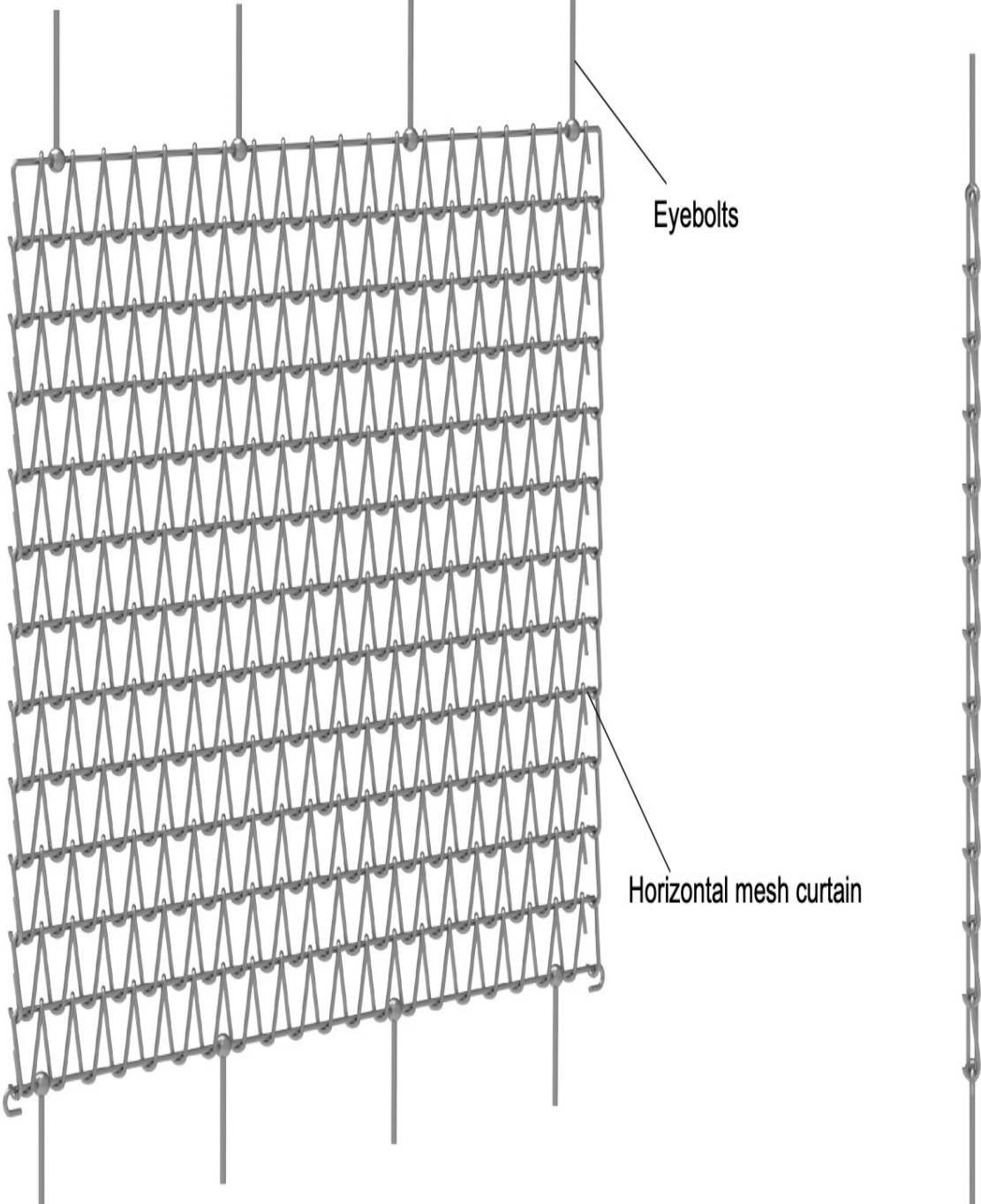
*Robust top-and-bottom fixing with clevis and pin.*

The KAPHS SpiralForm flat bar fixing system provides a robust and structured solution for securing spiral mesh panels. The spiral mesh curtain is fixed at the top and bottom using stainless steel flat bars, combined with clevis and pin connections for enhanced stability. Designed for applications requiring increased rigidity and precise tensioning — ideal for façades, balustrades and large-scale architectural installations. The flat bar fixing ensures a clean, linear finish while maintaining the integrity and performance of the spiral mesh system.

# Eyebolts

*Lightweight suspension with precision-mounted eyebolts.*

The KAPHS SpiralForm eyebolt fixing system offers a clean and efficient solution for installing architectural spiral mesh panels. Using precision-mounted eyebolts, the spiral mesh curtain is securely suspended while maintaining flexibility and natural movement. Ideal where a lightweight appearance and simple installation are required — suitable for façade screens, partitions and suspended architectural features. The system allows easy alignment and adjustment on site.



# 07

# Product Range

*Seven spiral mesh patterns. From fine flat-wire spirals for screens and curtains to wider flat-wire and round-rod spirals for monumental facades and shading systems.*

SPIRALFORM

# Apex

TOTAL THICKNESS

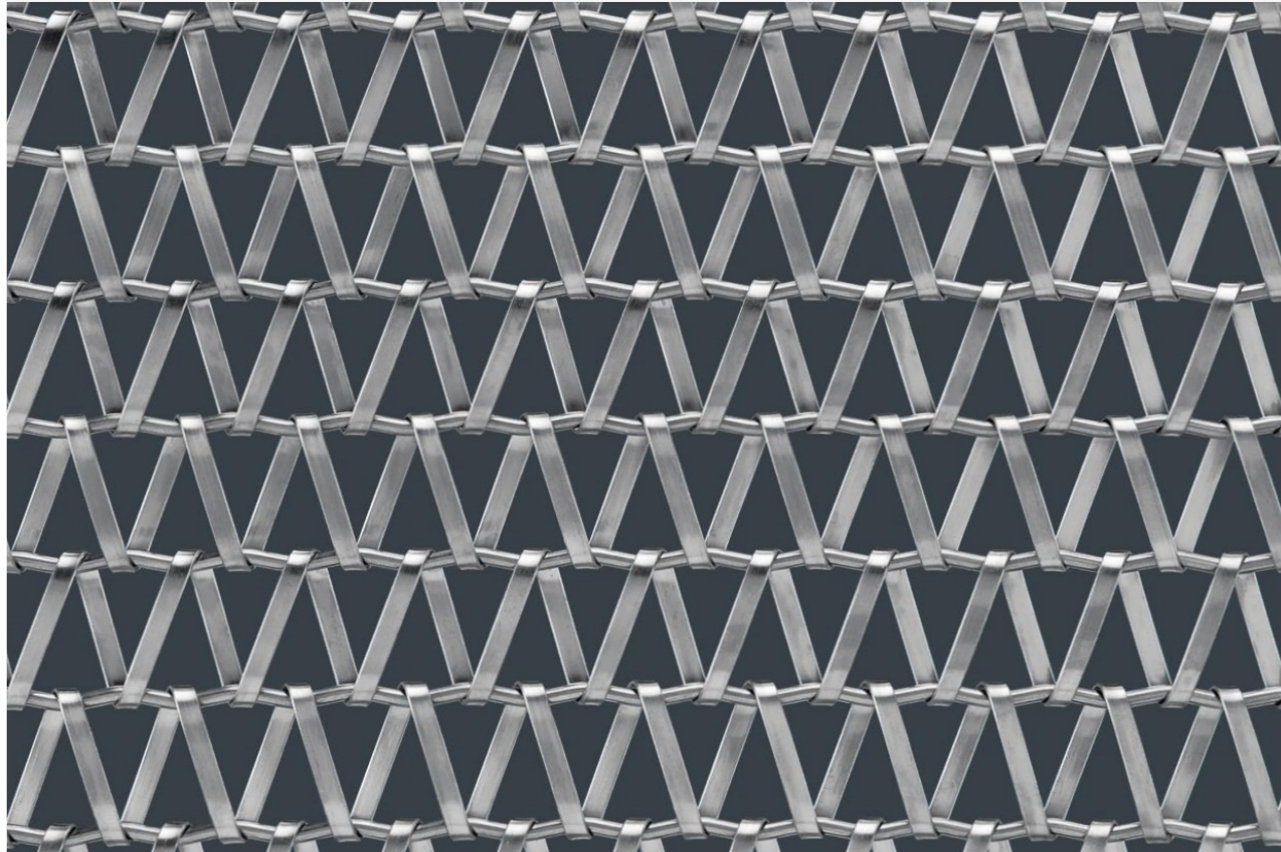
**ca. 28 mm**

FREE OPENINGS

**64%**

AVAILABLE SPECIFICATIONS

Spiral wire (mm)	Rod / Pitch	Weight
4 x 1 mm	Ø 3.5 mm	7,2 kg/m <sup>2</sup>
Stainless Steel 316	Spiral pitch 20 mm	Spiral height 28 mm



SPIRALFORM

# Drift

TOTAL THICKNESS

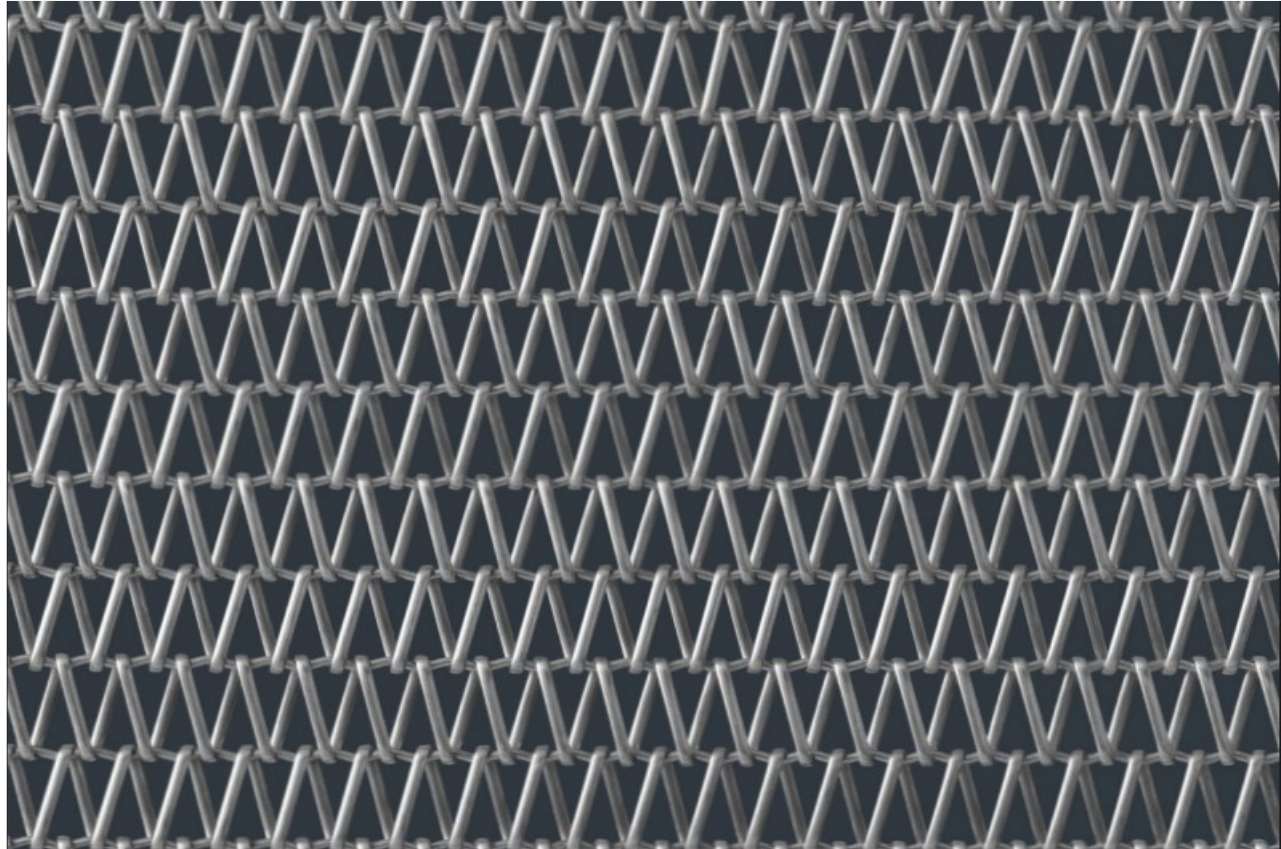
**ca. 19 mm**

FREE OPENINGS

**47%**

AVAILABLE SPECIFICATIONS

Spiral wire (mm)	Rod / Pitch	Weight
2.5 x 1 mm	Ø 2 mm	2,2 kg/m <sup>2</sup>
Aluminium	Spiral pitch 11 mm	Spiral height 19 mm
28 x 10 x 2,0 x 2,0 mm	6,4 kg/m <sup>2</sup>	2,2 kg/m <sup>2</sup>



SPIRALFORM

# Flow

TOTAL THICKNESS

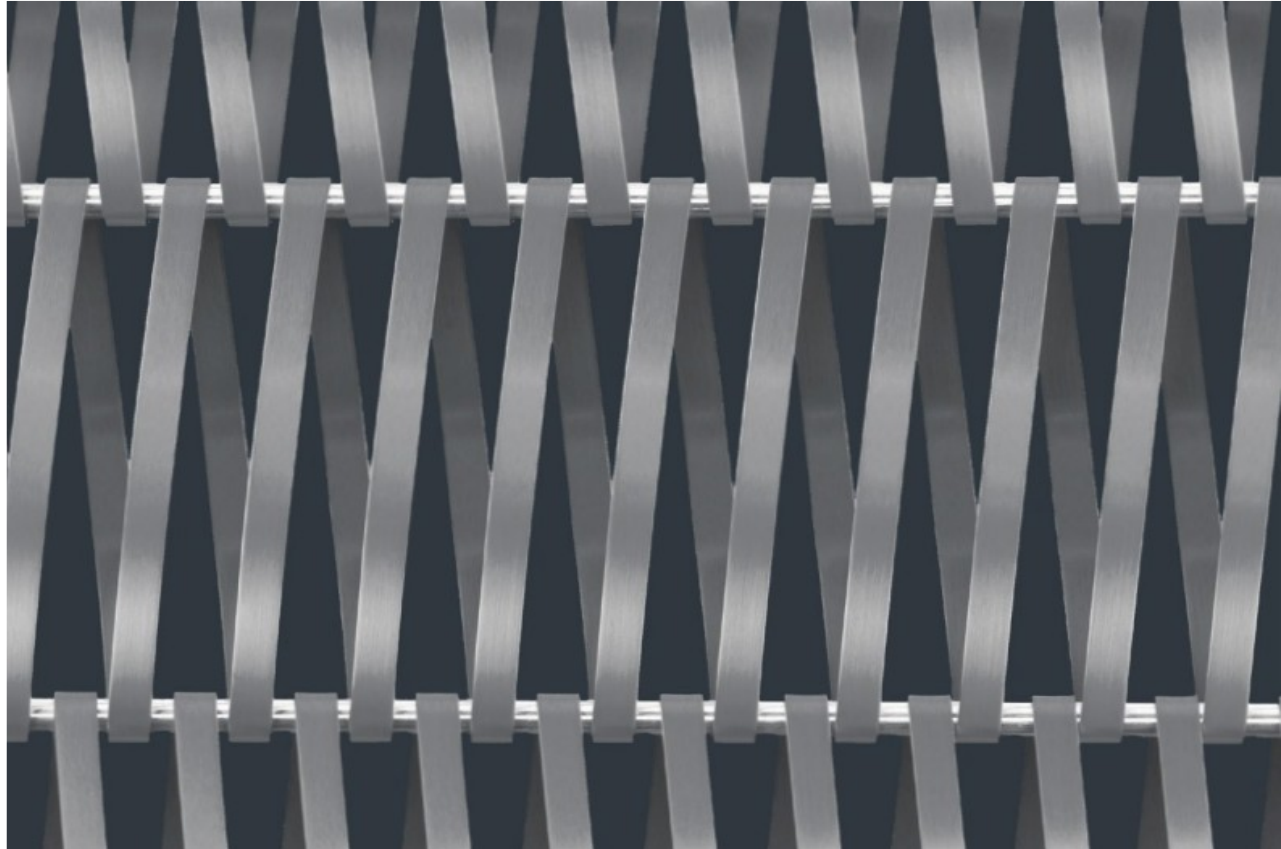
**ca. 100 mm**

FREE OPENINGS

**36%**

AVAILABLE SPECIFICATIONS

Spiral wire (mm)	Rod / Pitch	Weight
7 x 1 mm	Ø 7 mm	3,9 kg/m <sup>2</sup>
Aluminium	Spiral pitch 20 mm	Spiral height 100 mm
28 x 6 x 2,5 x 2,0 mm	13,3 kg/m <sup>2</sup>	4,7 kg/m <sup>2</sup>



SPIRALFORM

# Matrix

TOTAL THICKNESS

**ca. 12.7 mm**

FREE OPENINGS

**28%**

AVAILABLE SPECIFICATIONS

Spiral wire (mm)	Rod / Pitch	Weight
2.5 x 1 mm	Ø 2 mm	3,3 kg/m <sup>2</sup>
Aluminium	Spiral pitch 7.5 mm	Spiral height 12.7 mm
28 x 14 x 5,0 x 3,0 mm	17,2 kg/m <sup>2</sup>	6,0 kg/m <sup>2</sup>



SPIRALFORM

# Nexus

TOTAL THICKNESS

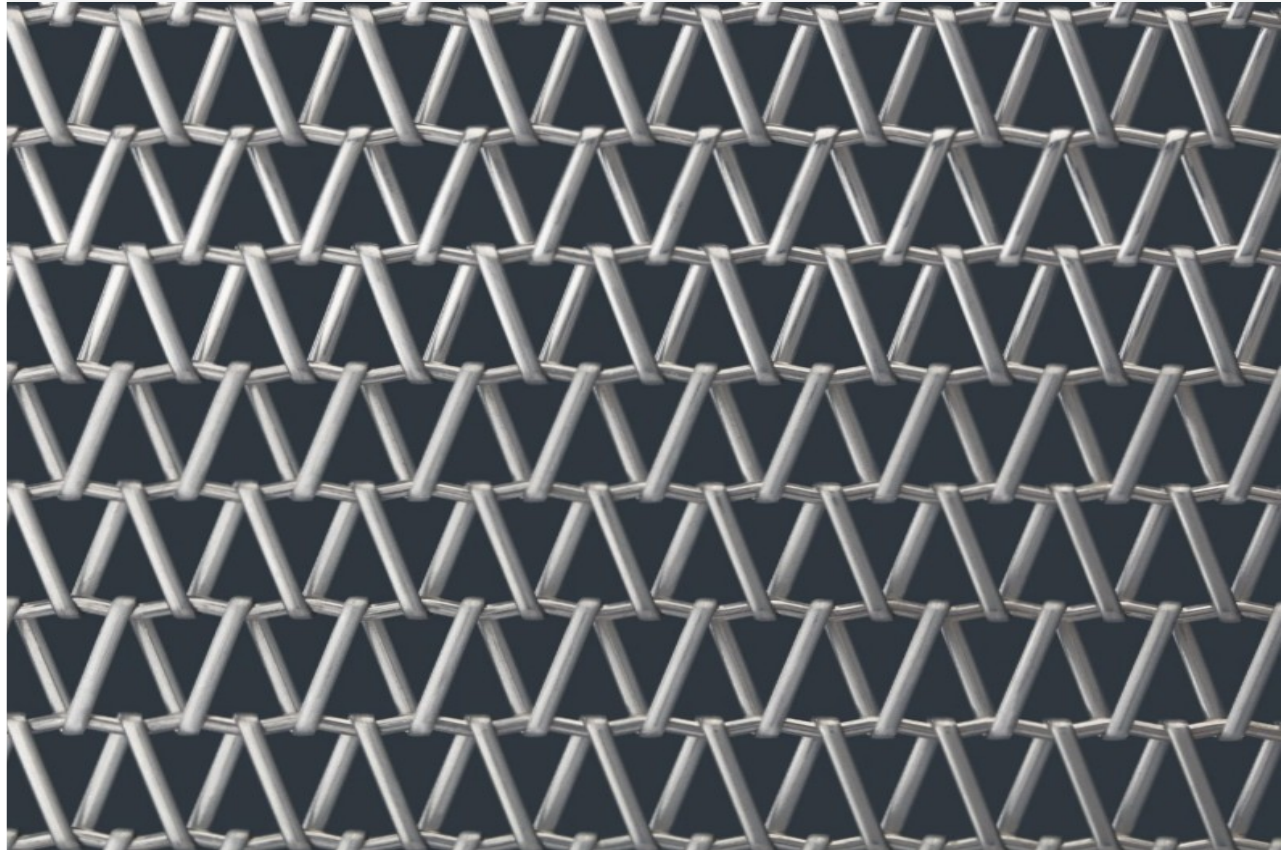
**ca. 27 mm**

FREE OPENINGS

**62%**

AVAILABLE SPECIFICATIONS

Spiral wire (mm)	Rod / Pitch	Weight
4 x 1.5 mm	Ø 4 mm	3,3 kg/m <sup>2</sup>
Aluminium	Spiral pitch 20 mm	Spiral height 27 mm
44 x 15 x 2,5 x 2,5 mm	6,7 kg/m <sup>2</sup>	2,4 kg/m <sup>2</sup>



SPIRALFORM

# Rhythm

TOTAL THICKNESS

**ca. 13 mm**

FREE OPENINGS

**40%**

AVAILABLE SPECIFICATIONS

Spiral wire (mm)	Rod / Pitch	Weight
2 x 1 mm	Ø 1.8 mm	8,9 kg/m <sup>2</sup>
Stainless Steel 316	Spiral pitch 7.5 mm	Spiral height 13 mm
44 x 13,4 x 5,0 x 3,0 mm	18,0 kg/m <sup>2</sup>	6,3 kg/m <sup>2</sup>



SPIRALFORM

# Vector

TOTAL THICKNESS

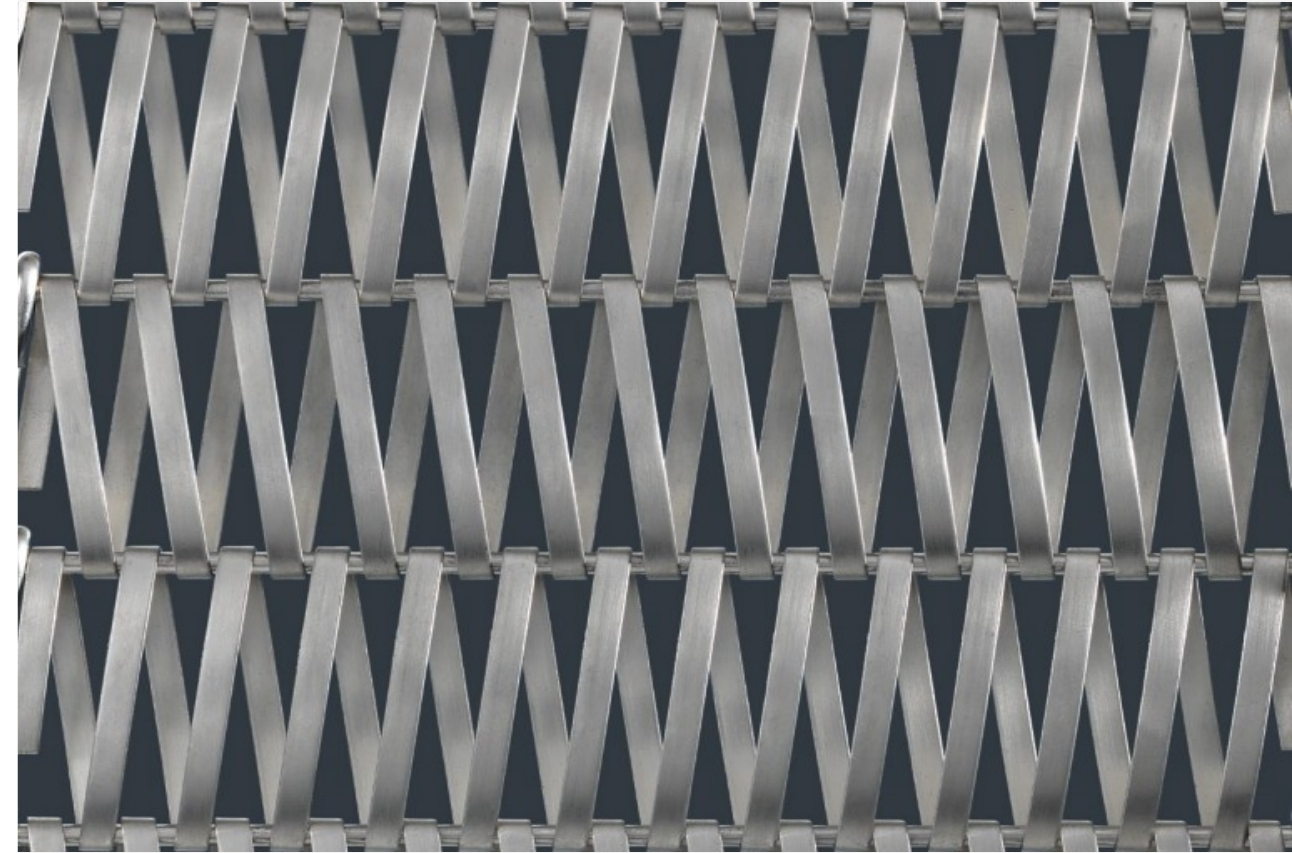
**ca. 50 mm**

FREE OPENINGS

**33%**

AVAILABLE SPECIFICATIONS

Spiral wire (mm)	Rod / Pitch	Weight
5 x 1 mm	Ø 4 mm	3,1 kg/m <sup>2</sup>
Aluminium	Spiral pitch 14 mm	Spiral height 50 mm
62 x 20 x 7,5 x 3,0 mm	18,0 kg/m <sup>2</sup>	6,3 kg/m <sup>2</sup>



# Built to specification.

*Each SpiralForm pattern can be specified in stainless steel or aluminium across flat or round spiral wires, with custom spiral and cross-rod pitches, panel sizes and a full range of finishes.*

## Materials

- Aluminium
- Stainless Steel 304L
- Stainless Steel 316

## Spiral wire

- 2 x 1 mm
- 2,5 x 1 mm
- 4 x 1 mm
- 5 x 1 mm

## Panel options

- Standard panels
- Cut-to-size
- Curved & shaped

## Finishes

- Mill (natural)
- Powder coat (RAL)
- Anodised aluminium



MIDDLE EAST

GET IN TOUCH

# Let's specify your next facade.

OFFICE

KAPHS Middle East Building Materials Trading LLC

Office 1701, Tower A, Prime Business Centre

Jumeirah Village Circle, Dubai, UAE

CONTACT

+971 4 554 2145

[sales@kaphsgroup.com](mailto:sales@kaphsgroup.com)

[kaphsgroup.com](http://kaphsgroup.com)