Uniclass	EPIC
L6637 : P4131	F513 : X4122
CI/SfB	jh3

Metal Meshes for Architecture

Edition 8

Above:
Centre For Power Transmission
& Mission Control, Bath University, Bath

Front Cover:
Emirates Stadium, Arsenal FC, London
Cork County Hall Car Park, Eire

Versatility with innovation

Potter & Soar have been manufacturing wire meshes and wire products since early in the 19th Century. We have always believed ourselves to be market leaders in developing new uses for wire meshes and in encouraging innovative applications. In recent years the company has been instrumental in helping to raise the awareness of architects and designers to the exciting possibilities offered by metallic meshes in architectural applications.

Potter & Soar Ltd is part of the privately owned Soar Engineering Group, with 150 employees at four manufacturing and distribution locations in the UK dedicated to the production of different wire mesh and wirework products for filtering, sieving, sizing and other applications across many industries.

These industries include food and chemical processing, water and waste treatment, plastics, pharmaceuticals, healthcare, electronics, automotive, minerals extraction and construction. A quality system in accordance with ISO 9001:2000 underlines our commitment to quality control in our selling and manufacturing processes.

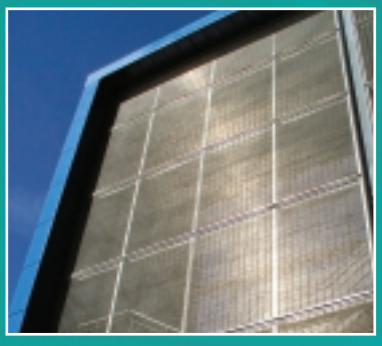
With these resources to draw on, the range of mesh types offered by Potter & Soar is extremely varied and includes fine woven wirecloth, crimped woven wire screens, welded wire mesh, wedge wire (vee wire) and spiral wound metal belts and far exceeds that available from other sources. We are therefore, in a unique position to assist those responsible at the planning stage to select from a variety of materials with widely differing characteristics to suit individual design criteria.

With considerable experience of many architectural mesh installations we have progressively developed our range and our are now pleased to introduce a wider range of styles and patterns than has previously been available. We hope that the many project applications illustrated in this brochure will continue to inspire further imaginative uses for these very versatile and exciting materials as well as clearly demonstrating Potter & Soar's manufacturing flexibility and willingness to work with architects and designers to develop interesting and innovative patterns.

Contents

External Facades p 4-5

Balustrades p 6-7



Staircase Cladding & Screens p 8-9

Sun Screens & Ceilings p 10-11

Interiors p 12-13

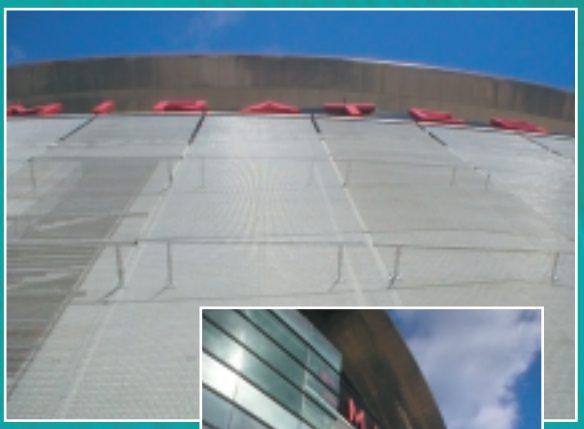
Other Applications p 14

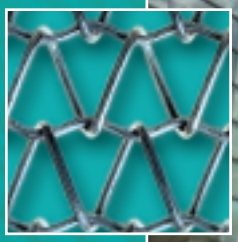
External Facades

Potter & Soar's Architectural Metal Meshes are being increasingly used by architects and designers the world over to clad prestigious buildings and structures. In daylight because of the reflective surface of stainless mesh changing weather conditions alter the colour, transparency and texture of these materials whilst night up- lighting can bring a whole new dimension. These constantly varying surface characteristics help maintain the interest and aesthetic appeal of mesh façades indefinitely.

Produced from fire resistant AISI 316L stainless steel our self supporting pre-crimped meshes are virtually maintenance free. They are also self supporting and do not require tensioning which helps to ease installation issues when compared with similar meshes made using flexible cables. Despite being manufactured from rigid wires the majority of our meshes can however be applied to curved surfaces and frames on site without pre-forming.

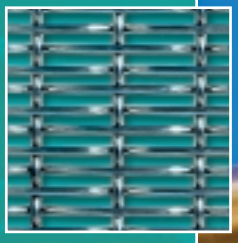
The economic cost of our meshes coupled with ease of installation ensure that projects using our materials present a high quality appearance whilst remaining cost effective.





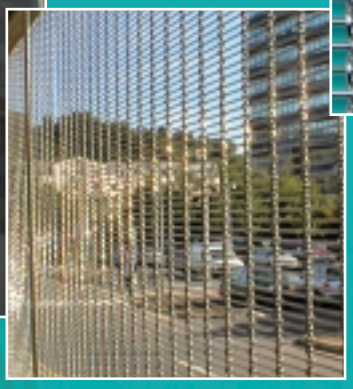
Project	Emirates Stadium, Arsenal FC
Architect	HOK Sport
Pattern	Niagara 12-12-12-12

Project	South Beach Shopping Mall, Miami
Architect	Zyscovich Architects
Pattern	Medway
	Reg. Des. 2099045



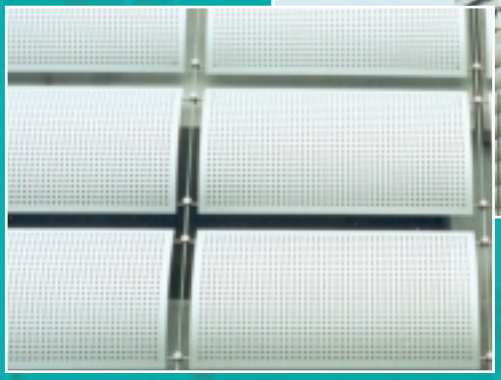
Project	Pulrose Power Station, Isle of Man
Architect	Savage & Chadwick
Pattern	Coniston 319

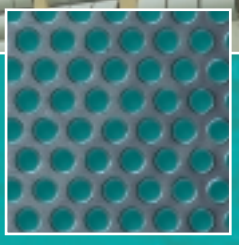
External Facades



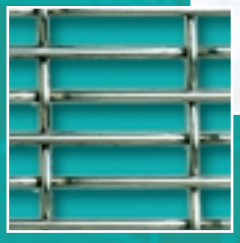
Project Cork County Hall Car Park
Architect Shay Cleary Architects
Pattern Adriatic
Reg. Des. 2099045

Project Lower Precinct, Coventry
Architect Aukett Associates
Pattern Eclipse





Project Newbury Racecourse, Newbury
Architect Foster & Partners
Pattern Amazon 4616/4



Project Star City, Birmingham
Architect Reid Architecture
Pattern Niagara 12-12-12-12

Balustrades

Attractive, rigid and easy to install Potter & Soar's range of Metallic Meshes is the perfect, cost effective, solution for new and impressive balustrades and offers much greater scope for individuality and creativity than traditional infill systems. Free open area of the mesh as well as apertures and wire diameters can be individually designed and varied to ensure that an architect's ideas are readily translated into reality while at the same time satisfying Health and Safety requirements. In addition Potter & Soar's patterns offer little reward to even the most ardent graffiti sprayer. We are happy to advise on methods of framing and suspension for our mesh panels and work closely with a number of fabricators who can assist with the more technically complicated installations if required.

Project Millennium Bridges, Maidstone
Architect Cezari M Bednarski
Pattern Medway
Reg. Des. 2099045

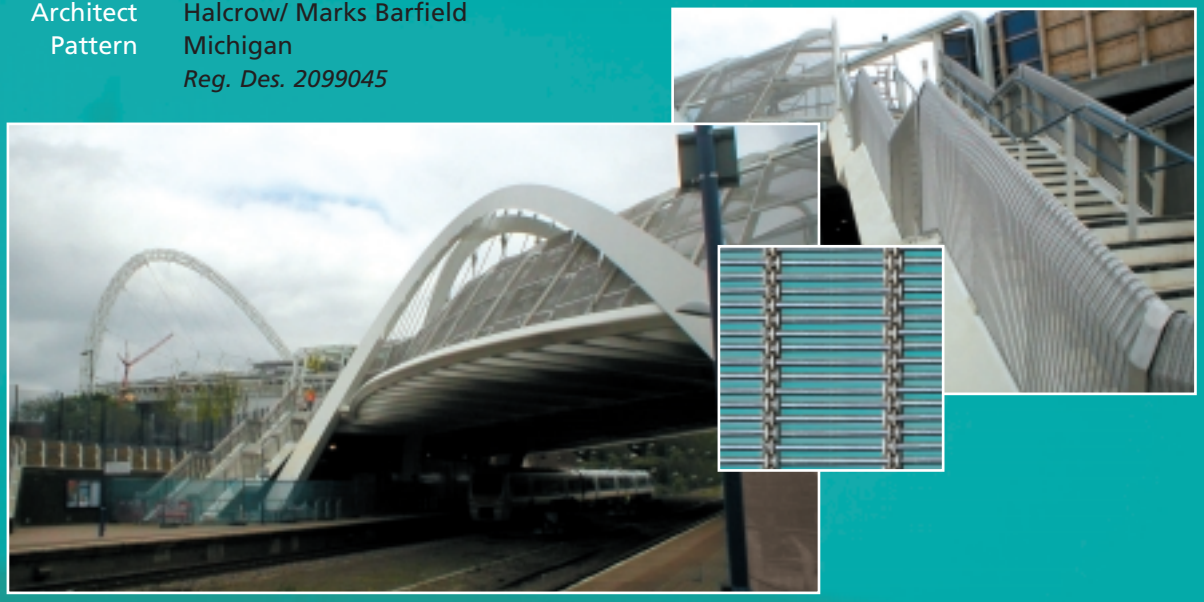
Project Armani Exchange, 5th Avenue, New York
Architect United Designers
Pattern Coniston 519

Project Moscavide Station, Lisbon, Portugal
Architect GA-AR
Pattern Coniston 519

Project Lockmeadow Bridge - Maidstone
Architect Wilkinson Eyre
Pattern Loire 409/4

Balustrades

Project The White Horse Bridge, Wembley
Architect Halcrow/ Marks Barfield
Pattern Michigan
Reg. Des. 2099045



Project Cheltenham Racecourse
Pattern Coniston 519

Project 23 Annandale Street, Edinburgh
Architect Comprehensive Design Architects (Edinburgh)
Pattern Medway
Reg. Des. 2099045

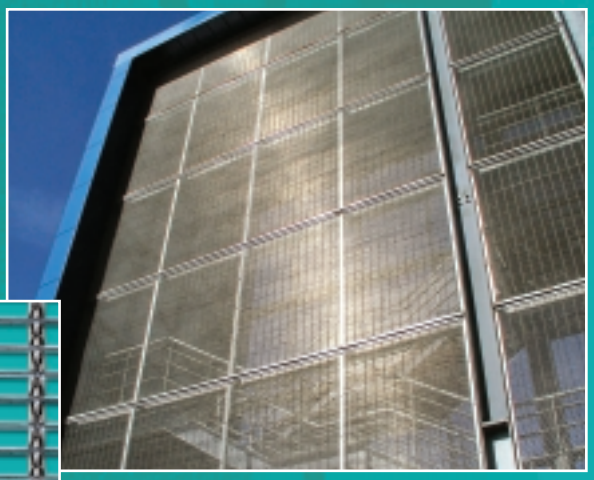
External Staircase Cladding

Potter & Soar's Architectural Metal Meshes help to provide functional solutions to the difficult problem of external stair tower cladding whilst at the same time allowing architects to satisfy their project design intent. Translucent mesh surfaces create the appearance of fine shroud surrounding and disguising the structure behind. Individual patterns can be redefined to meet all requirements. Our architectural meshes can be used to dramatically reduce wind and rain penetration and in stainless steel meet all Fire Regulations.

Security concerns can also be satisfied using our heavier meshes which can be extremely difficult to penetrate while at the same time offering a much more attractive aspect than traditional security meshes.

Project Cork County Hall Car Park
Architect Shay Cleary Architects
Pattern Adriatic
Reg. Des. 2099045

Project Reading International
Architect Aukett Associates
Pattern Coniston 519



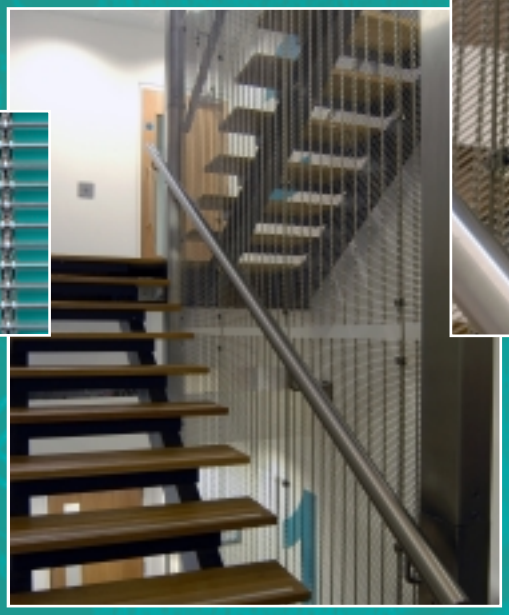
Project The Met Office, Exeter
Architect Broadway Malyan
Pattern Medway
Reg. Des. 2099045

Project International Centre for Life, Newcastle
Architect Terry Farrell & Partners
Pattern Coniston 319

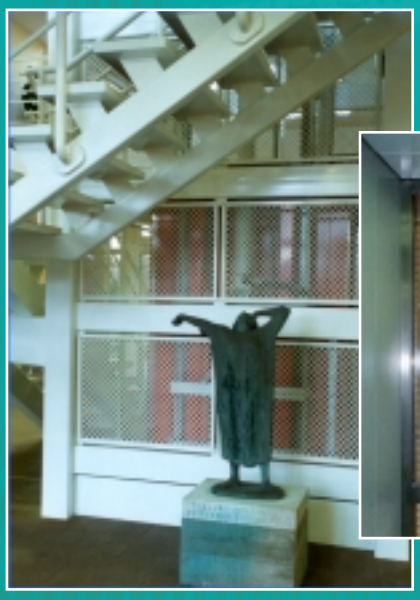
Lift Enclosures & Staircase Screens

As a lift enclosure or staircase screen these materials can be used to satisfy all Health and Safety issues as well as providing a constantly changing, non claustrophobic, surrounding. Depending on the angle of viewing and type of material selected meshes can alter from translucent to opaque in an instant.

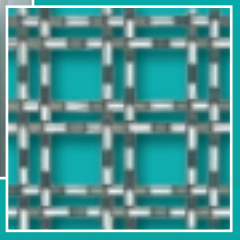
Project Plymouth University Library
Architect Nicholas Burwell
Pattern Adriatic
Reg. Des. 2099045



Project Great Eastern Hotel, London
Architect Manser Associates
Pattern Windermere 3/16

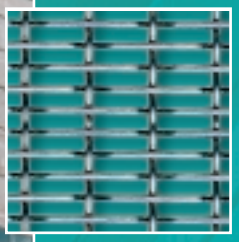


Project Homerton College, Cambridge
Pattern Gemini

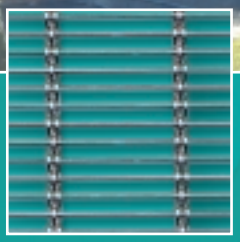


Sun Screens

Architectural wire meshes offer exceptional qualities when used as a sun screen or solar shade. As the sun rises in the sky direct sunlight penetration is reduced progressively reaching maximum effectiveness when the sun is at its highest point. These materials can contribute considerably to the aesthetics of an architect's 'brise soleil' design as well the functional requirements for of the project. Additionally most patterns offer excellent transparency from inside the buildings looking directly through the mesh.

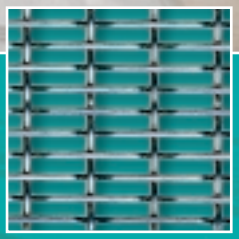


Project Centre For Power Transmission & Mission Control, Bath University, Bath
Architect Fielden Clegg Bradley
Pattern Coniston 619



Project Douai Abbey, Reading
Architect Lyons & Sleeman & Hoare
Pattern Adriatic
Reg. Des. 2099045

Project Oxford Science Park, Oxford
Architect Ian Ritchie Architects
Pattern Niagara 12-12-12-12



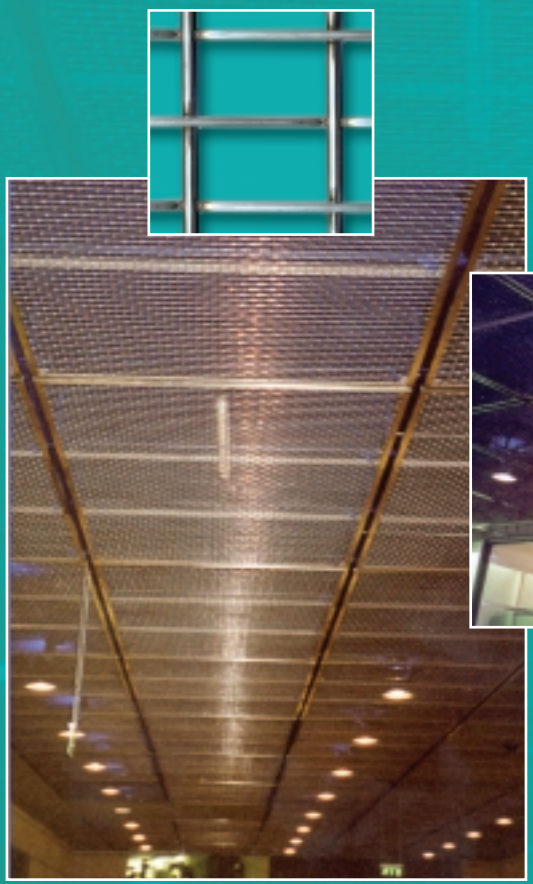
Project Bell College, Hamilton, Scotland
Pattern Coniston 519

Ceilings

Potter & Soar's Metal Meshes can be used to provide ceilings, which are cost effective, fire proof, durable, easy to install & relatively maintenance free. In addition our materials are regularly used to hide sprinkler systems, pipes, cable trunking and other plant despite the meshes having a high open area thus allowing for effective downlighting from behind the ceiling.

By utilising the natural colour and reflectivity of the stainless steel, up lighting can change the mood of a building. Alternatively left in its natural form the shimmering mesh will constantly change in appearance as pedestrians pass by.

Project	Morton Square, New York
Architect	Philip Koether Architects
Pattern	Isis, Windermere 16/5, Coniston 319

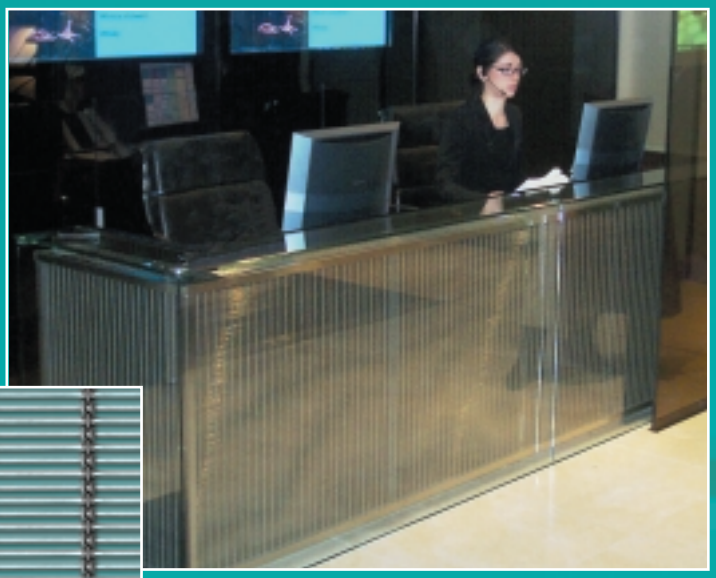


Project	Potsdamer Platz, Berlin, Germany
Architect	Modersohn & Freiesleben
Pattern	Amazon 4626/4

Project	River Café, Thames Wharf, London
Architect	Richard Rogers Partnership
Pattern	Windermere 16/4

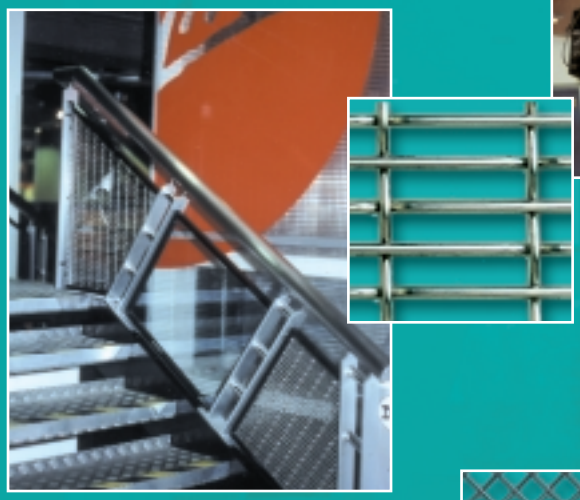
Interiors

We regularly work closely with architects and designers to help them develop new and interesting applications for these amazingly versatile materials. From elevator flooring and walls to cabinet screens, from canopies to wall covering and from seating to room dividers. The opportunities to use these versatile and visually attractive materials in interiors seem to be endless.



Pattern Huron
Reg. Des. 2099045
Application Reception Desk

Project Virgin Megastore, Leeds
Pattern Amazon 4610/4
Application Canopies & Balustrading



Project Chez Gerrard, Restaurant, London
Pattern Windermere 7/16
Application Cabinet Screens

Interiors

Project	One Aldwych Hotel, Aldwych
Pattern	Serenity 36
Application	Wall Cladding
Architect	Fox Linton Associates

Project	Regino Cruz Meeting Room, Estoril, Portugal
Pattern	Cascade *Reg. Des. 2099045*
Application	Wall and Furniture Cladding
Architect	Regino Cruz

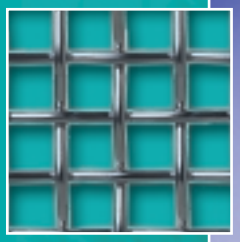
Project	Baxi Fires
Pattern	Oriana *EEC Reg. Des. 000317946*
Application	Ornamental Grille

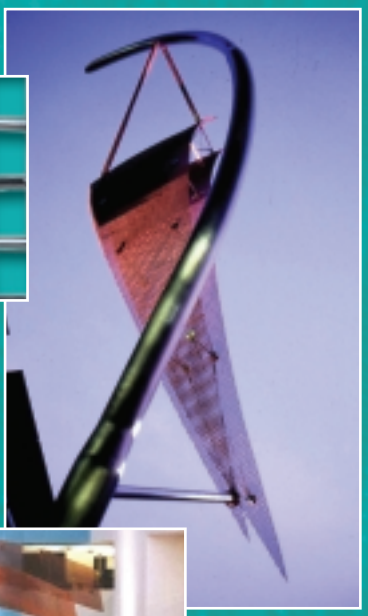
Project	First Class Lounge, Virgin Airlines, Johannesburg Airport, South Africa
Pattern	Amazon 4610/4
Application	Column Cladding

Other Applications

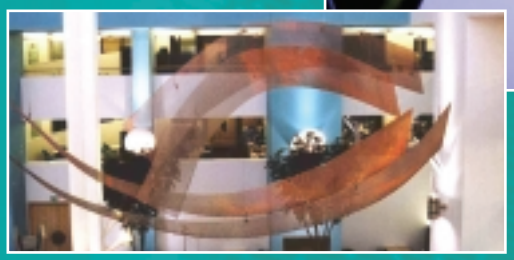
Illustrated on this page are some new and interesting applications for our Metallic Meshes in fields at a tangent to architecture. Contemporary garden designers for instance have adopted our exciting materials and incorporated them into their projects in both functional and decorative ways. Sculptors have used our finer patterns for intricate work whilst others have taken 10 Mtr long panels of much heavier materials and spiralled them down building façades.

The strength of our Wedge Wire patterns make them ideal for use as drainage gratings and floorings.



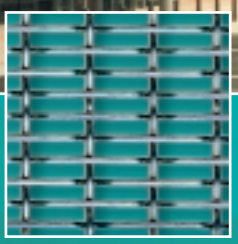


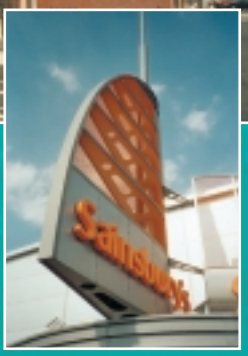
Application Architectural Sculpture
Pattern Windermere
Designer Rob Olins



Project Merrill Lynch Garden - Chelsea Flower Show
Pattern Serenity 18
Application Waterfall
Designer Andy Sturgeon

Project Castle Vale Shopping Centre
Pattern Coniston 519
Application Architectural Sail





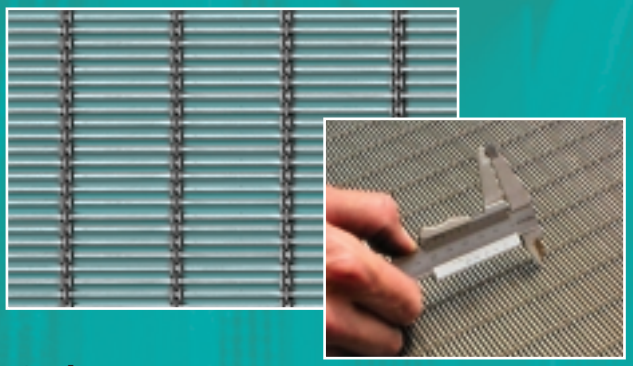
Project Blaise Estate Café, Bristol
Pattern Cascade
Reg. Des. 2099045
Application Security Doors
Architect CODA

New Patterns by Potter & Soar

Solaris™ *Patent Application*

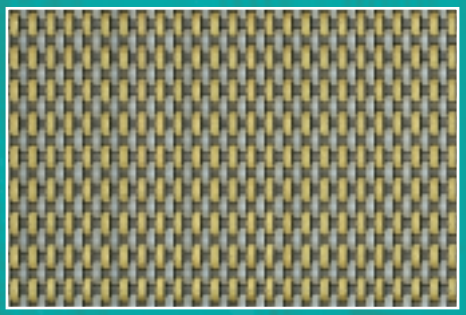
Pattern Name :	Solaris	
Material :	Stainless Steel AISI 316L. DIN 1.4404	
Open Area :	Horizontal = 38.5%	
	45° above = 0%	45° above = 0%
	45° below = 76%	45° below = 76%
Thickness of Mesh :	8mm (approx)	0.32ins
Weight :	7.7 Kg / m^2	1.58 lbs/ft^2
Maximum Mesh Width :	2000mm	78.74ins

Huron *Reg. Des. 2099045*



Pattern Name :	Huron	
Material :	Stainless Steel AISI 316L. DIN 1.4404	
Open Area :	44.3%	
Thickness of Mesh :	3.6mm	0.14ins
Weight :	5.8Kg / m^2	1.19 lbs/ft^2
Maximum Mesh Width :	1250mm	49.2ins

Oriana *EEC Reg. Des. 000317946*

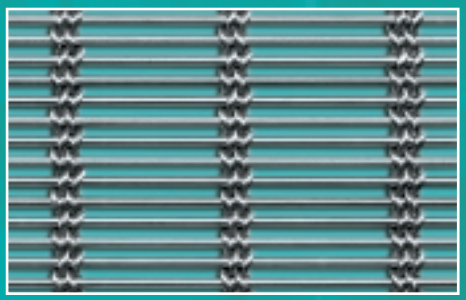


Pattern Name :	Oriana	
Material :	Stainless Steel 304 / Brass	
Open Area :	n/a	
Thickness of Mesh :	3.65mm	0.14ins
Weight :	13.51 Kg/m2	2.77lbs/ft2
Maximum Mesh Width :	1250mm	48.03ins

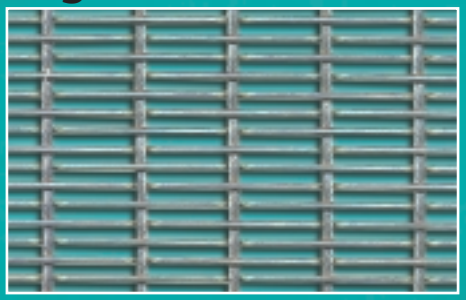
Architectural Cable Meshes by Potter & Soar

Euphrates

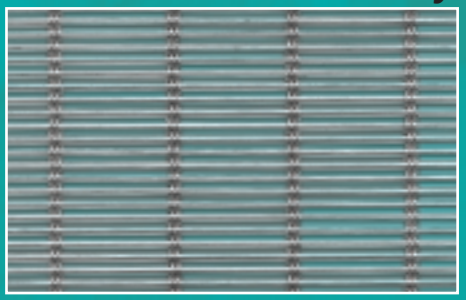
Shannon



Sagami 2



Trinity

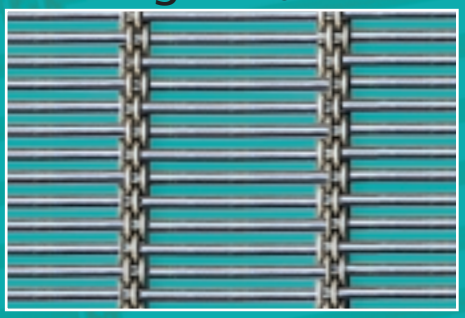


Revolutionary Pre-Crimped Patterns by Potter & Soar

Potter & Soar's Metal Meshes for Architecture are available in many different patterns each with its own characteristics and optical effect. All can be manufactured in a wide range of specifications to increase or decrease their density, texture and transparency. Essentially each pattern can be individually modified to satisfy almost any design criteria.

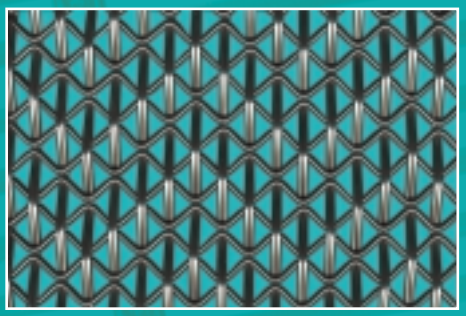
In addition the majority of these patterns are constructed to be self-supporting, therefore reducing both cost and complications with regard to fabrication and installation. Curved surfaces can usually be accommodated without pre-forming and a wide range of panel sizes are available.

Michigan *Reg. Des. 2099045*

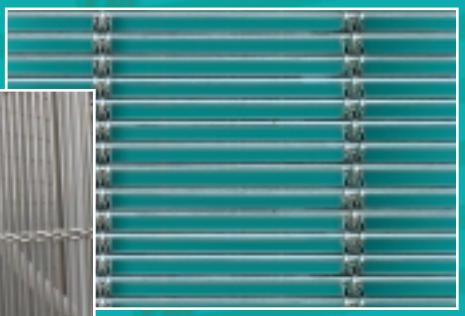


NEW

St Luke *EEC Reg. Des. 000102777*

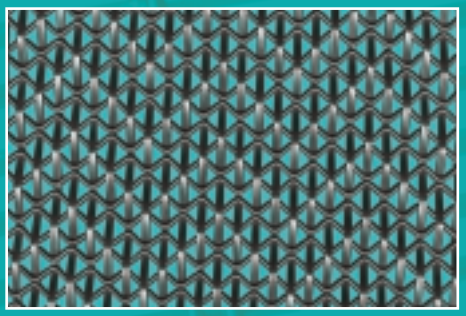


Cascade *Reg. Des. 2099045*

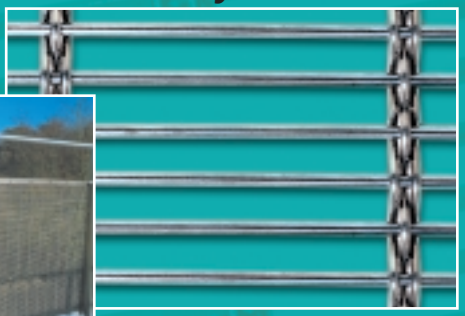


NEW

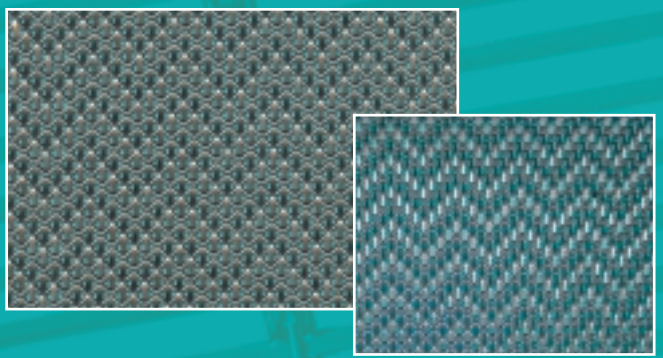
St David *EEC Reg. Des. 000102777*



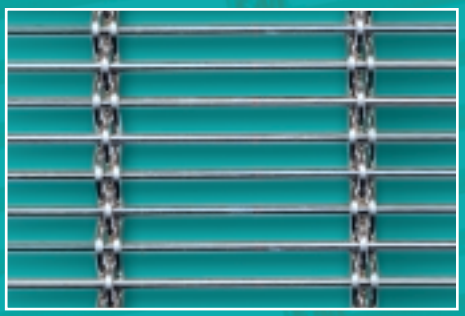
Medway *Reg. Des. 2099045*



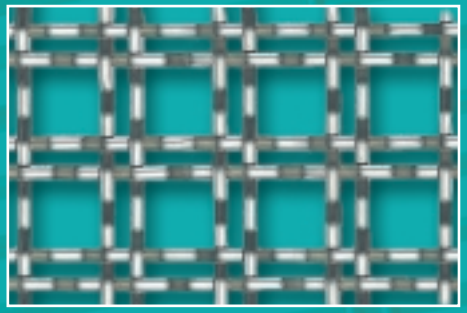
St James *EEC Reg. Des. 000102777*



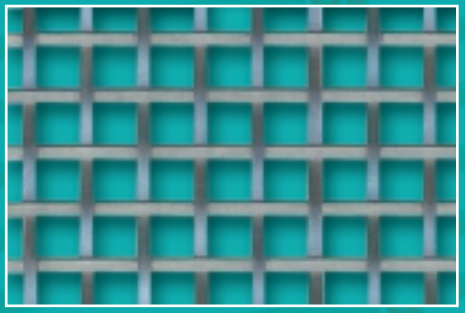
Adriatic *Reg. Des. 2099045*



Gemini

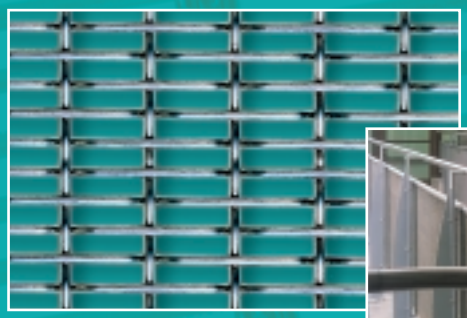


Lomond

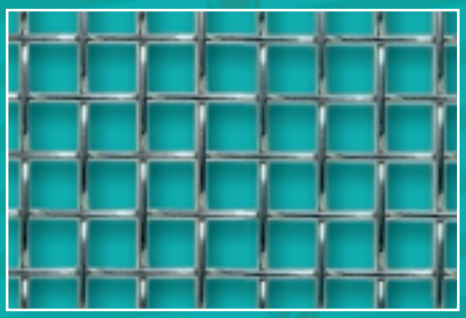


Traditional Pre-Crimped Patterns By Potter & Soar

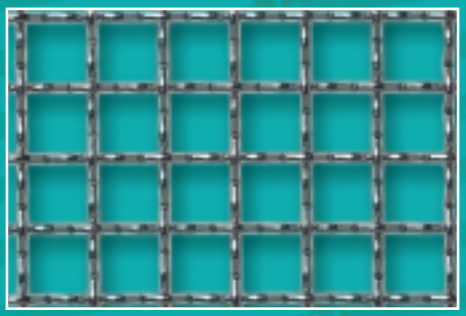
Coniston



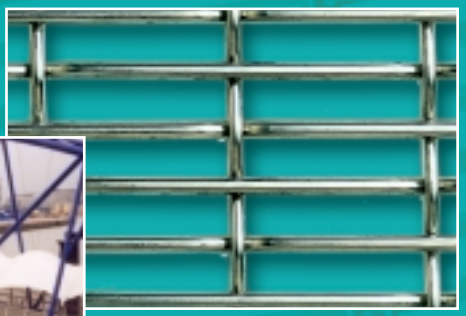
Garda



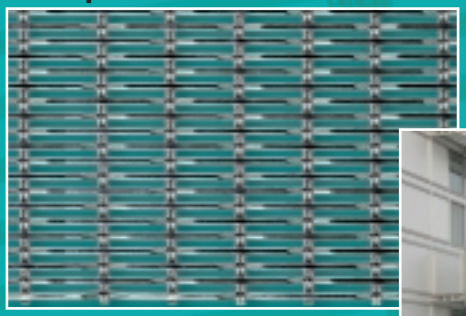
Cherwell



Amazon

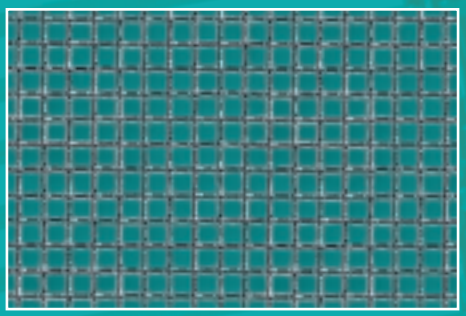


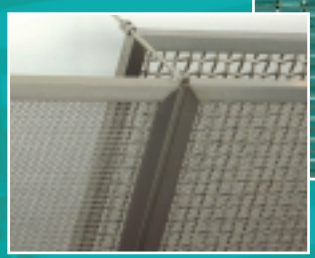
Caspian



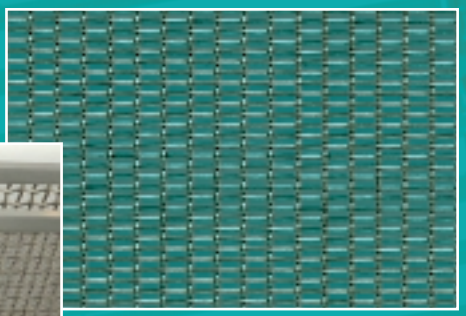
Colorado

Lucerne

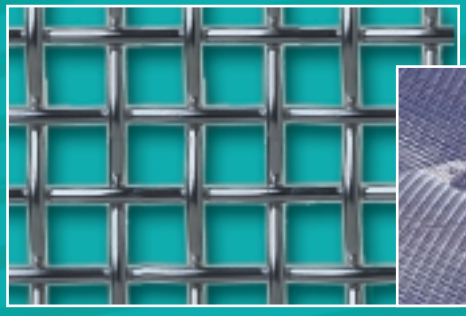




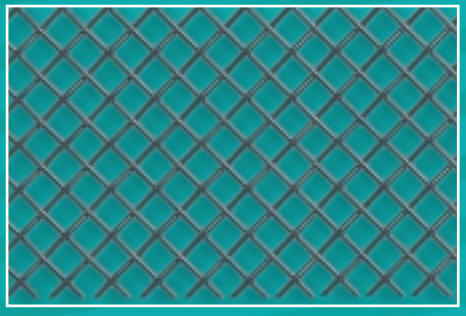
Isis



Windermere 16/4

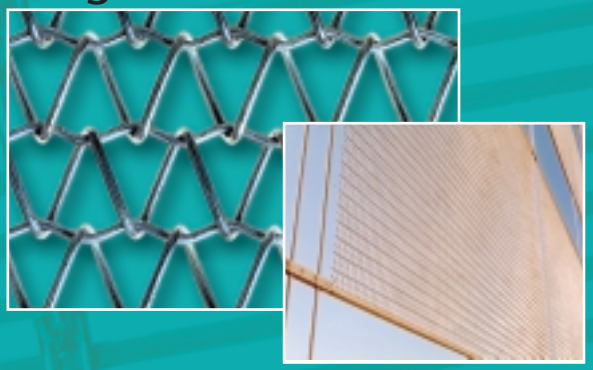


Windermere 7/16

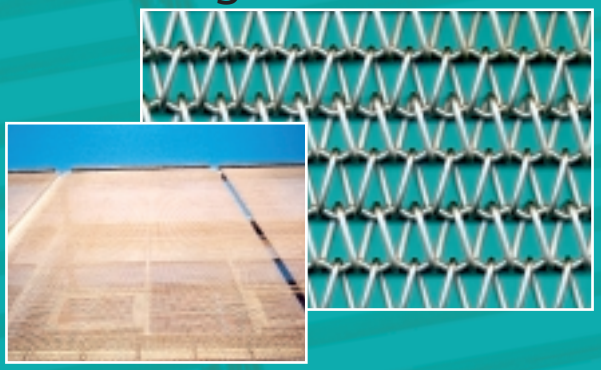


Spiral Metal Belt Patterns

Niagara 12-12-12-12

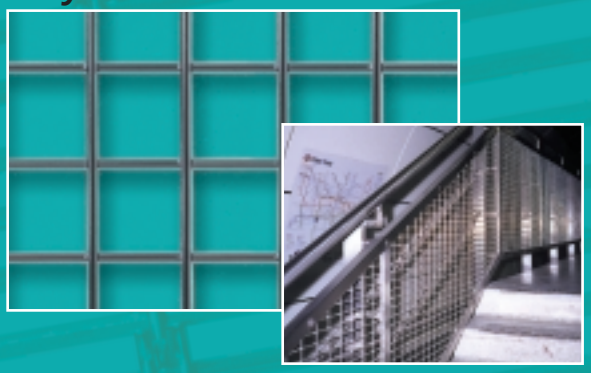


Niagara 30-14-24-14

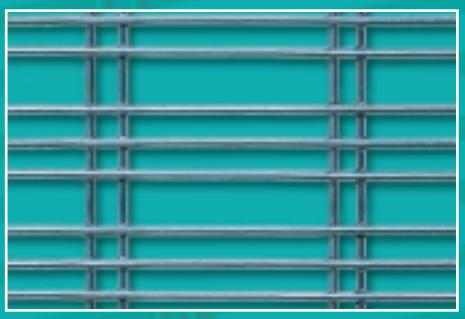


Welded Mesh Patterns

Skye



Arran

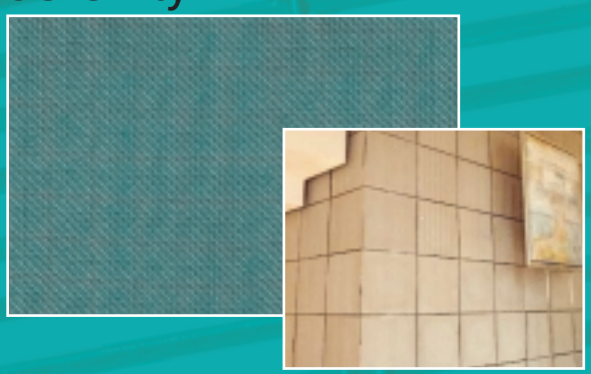


Tsunami FE

Tsunami EE

Wirecloth Patterns

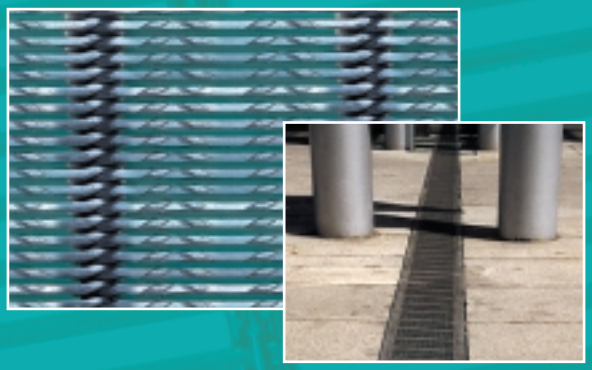
Serenity



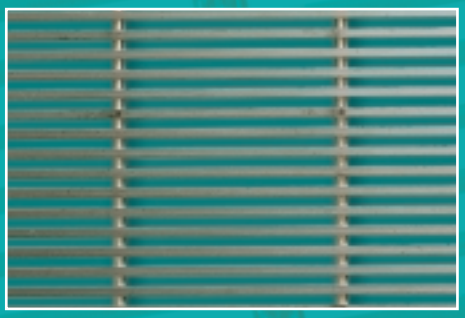
Placid

Wedge Wire (Vee Wire) Patterns

Atlantis



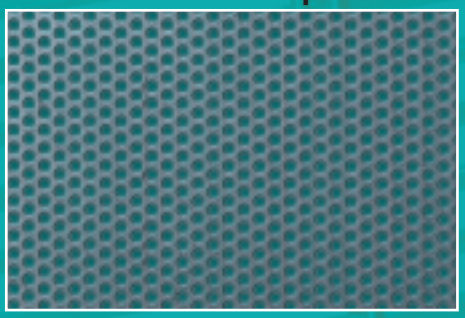
Rhone



Perforated Metal Patterns

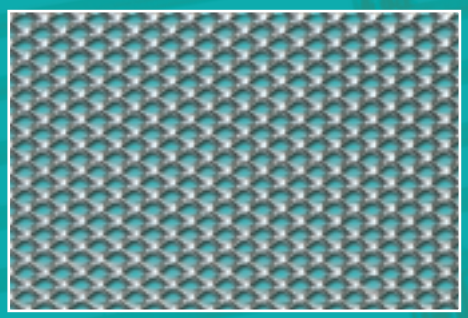
Eclipse 6/9

Eclipse 3/5

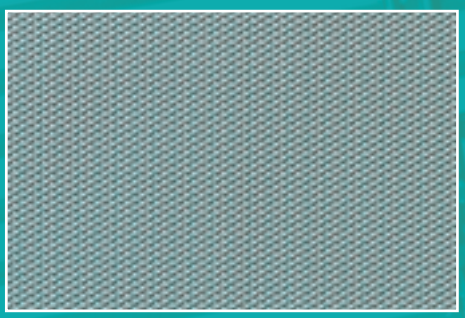


Expanded Metal Patterns

Sahara



Kalahari



Other Materials Available

- ***Website - www.architecturalmesh.co.uk***

  For even more patterns and projects view our brand new website. Further copies of this brochure can be downloaded from this site.

- ***Picture Book CD***

  An extensive range of Potter & Soar projects can be viewed on our Picture Book CD. Please call us for a copy

- ***Pattern Technical Sheets***

  Technical sheets detailing weight, open area, thickness and a life size pattern image are available upon request.

- ***Sample Service***

  Potter & Soar would be pleased to supply samples against specific requests to assist your project development using these materials.

At Potter & Soar we pride ourselves on our ability not only to meet our customers expectations but to exceed them so if you require any information on our product range please contact us and we will be delighted to help with your specific requirements. We look forward to working with you!

POTTER & SOAR LTD

BEAUMONT ROAD, BANBURY, OXON

OX16 1SD, UNITED KINGDOM

Tel +44 (0) 1295 253344 Fax +44 (0) 1295 272132

Web Site www.architecturalmesh.co.uk

www.wiremesh.co.uk

E-mail sales@potterandsoar.com

Acknowledgments

Photography: Rob Olins, CDA Edinburgh, Broadway Malyan, Boundary Metal, Taunton Fabrications Ltd, Luke Prentice GT Architectural, Baxi Fires, Duncan Soar & Robert Soar.

Designed & produced by DIALHOUSE, UK +44 (0) 24 7660 3030 www.dialhouse.co.uk