

Graepels®

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WARRINGTON | BELFAST | CORK | DUBLIN

Quarry & Recycling Products



Graepels®

Contents

Overview	03
Woven Mesh Screens	04
Woven Mesh Screen Types	06
Hook Types	08
Capping Rubber	09
Perforated Screens	10
Granulator Screens & Wood Shredder Baskets	12
Perforated Trommels	14
Rubber Trommels	15
Rubber & Polyurethane Screen Mats	16
Finger Screens	18
Dewatering Bucket Screens	20
Spares & Wear Parts	21
Heavy Duty Mesh Screens	22
Filters & De-Packing Screens	23
Graepels Metal Flooring	24

Overview

Graepels have a long-standing tradition of producing high quality products, and have been supplying the Quarrying and Recycling Industries for over 57 years.

We manufacture a wide range of products specifically for the Quarrying and Recycling Industries.

Woven Mesh Screens

Capping Rubber

Perforated Screens

Granulator Screens

Wood Shredder Baskets

Perforated Trommels

Rubber & Polyurethane Screen Mats

Rubber Trommels

Finger Screens

Dewatering Bucket Screens

Spares & Wear Parts

Replacement Screens

Metal Flooring

In addition, Graepels manufacture and fabricate anti-slip walkways, steps and ladder rungs.

Suppliers of Perforated Metal and Woven Wire in Ireland and the UK since 1959.

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Manufactured to IS.EN ISO 9001:2008
NSAI Certified

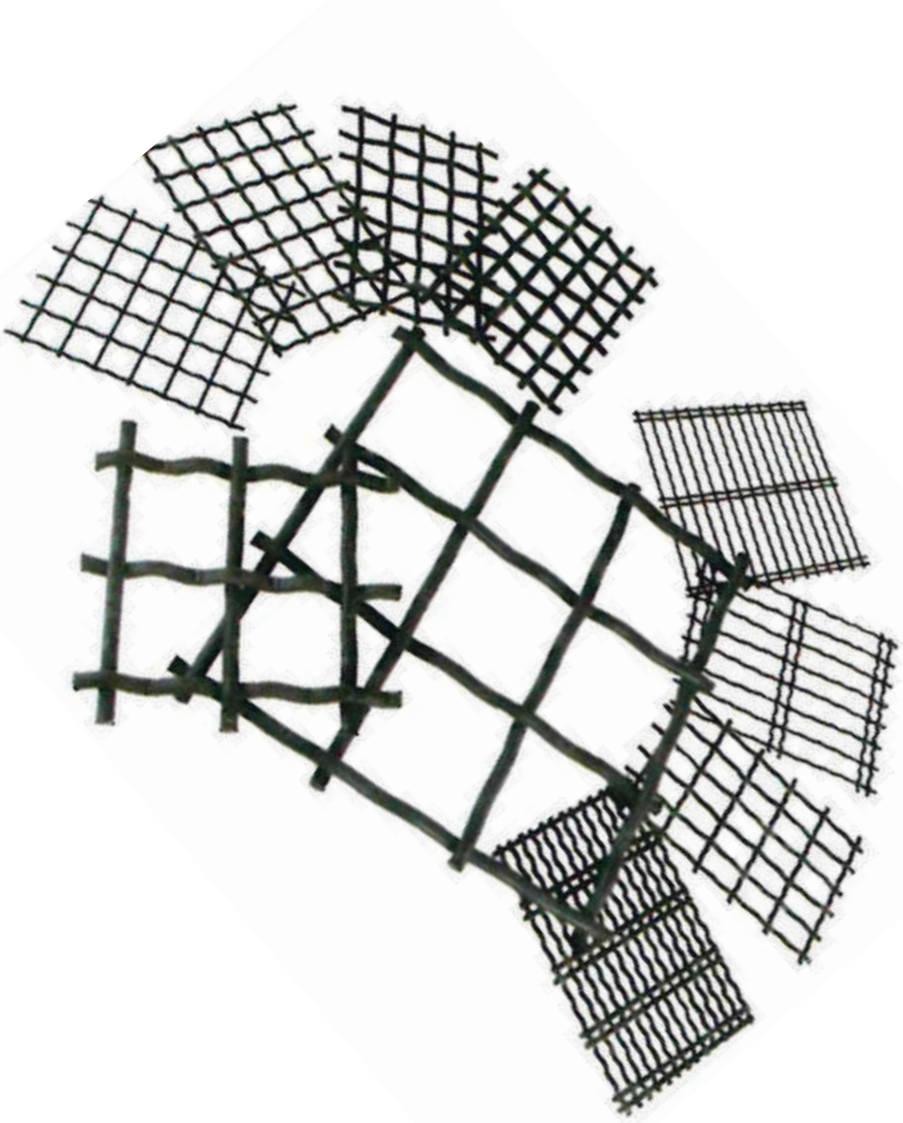
Woven Mesh Screens

Graepels High Tensile & Stainless Steel Screens

Our Wire Mesh Screens are manufactured from the highest quality of wires, using only high tensile and high carbon stainless steel wire.

Quality, down to the smallest detail, starts in production from the first crimping of the wire through to wire weaving. Screens can be cut to size and hooked.

Screen Mesh is manufactured in high tensile carbon steel and stainless steel from 1.6mm to 150mm. Wire thickness ranges from 1.2mm to 12.7mm.



Sample Mesh Sizes

Please note: Additional sizes are available.

Mesh sizes are not limited to the following table.

Please contact sales@graepels.com with any queries or specific requirements

Mesh Sizes (mm)	Wire Diameter (mm)
2	1.25
2.5	1.5
3.2	2 and 2.36
4	2 and 2.65
5	2.5 and 3
6	2.5 and 3.2
7	3.2
8	3 and 4
9	3 and 4
10	4 and 5
11	4 and 5
12	4 and 5
13	4 and 5
14	4 and 5
15.5	4.5 and 6.35
16	4.5 and 6.35
18	5 and 6.35
19	6.35
21	6.35
22	6.35 and 8
24	6.35 and 8
25.4	6.35 and 8
28	6.35 and 8
30	6.35, 8 and 9.5
35	8 and 9.5
38	8 and 9.5
40	8 and 9.5
42	8
45	8 and 9.5
50	8, 9.5 and 10
55	9.5 and 10
60	9.5 and 10
65	9.5 and 10
70	9.5 and 10
73	12
82	12
100	12
125	12

Mesh sizes are not limited to the above table.

Screens from Stock

Many screen sizes are available from stock. Screens may be cut and hooked to meet your precise requirements.

Please note: overnight deliveries are available on stock items. We recommend ordering early in the day to ensure prompt delivery. Bespoke screens are manufactured to meet customer requirements. Contact our Sales Office to discuss your bespoke requirements. Please find our contact details on the back page.

Wire Mesh Screens

Graepels manufacture Woven Wire Trommel Screens and Woven Wire Screens in square, slotted and elongated meshes for all screen sizes.

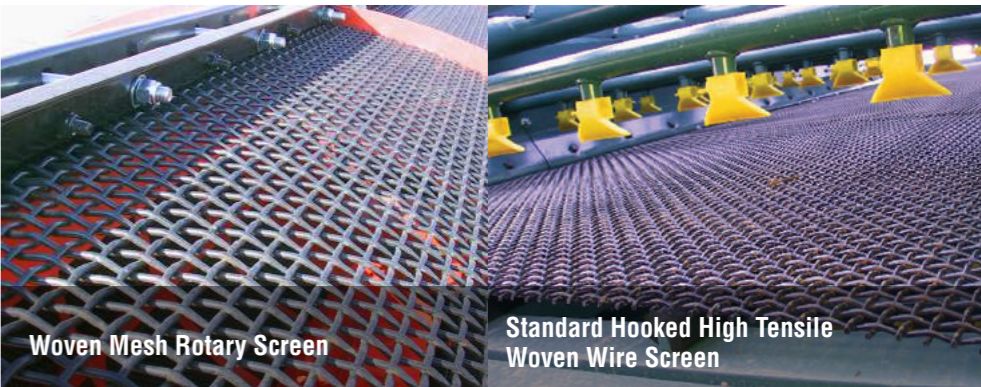
A full range of Welded Mesh, Piano Screens and Self Cleaning Screens are available to order.

Graepels Offer

- High quality products manufactured from high tensile, high carbon steel and stainless steel
- A variety of apertures & wire thickness
- Accurate screen sizing
- Screens cut to size
- Screens for anti-clogging and anti-pegging
- Screens available for all machine types
- Bespoke screens made-to-order



Woven Mesh Rotary Screen



Woven Mesh Rotary Screen

Standard Hooked High Tensile Woven Wire Screen



Standard Hooked High Tensile Woven Wire Screen

Woven Mesh

Mesh Types



Rectangular Slotted Mesh

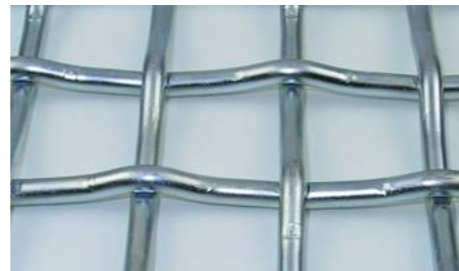
Rectangular Slotted Mesh is economical to manufacture, and has a greater open area for increased air flow where binding or clogging occurs.

The variable slot lengths mean it is often used to reduce flake content of material to acceptable levels.



Extra Long Slotted Mesh

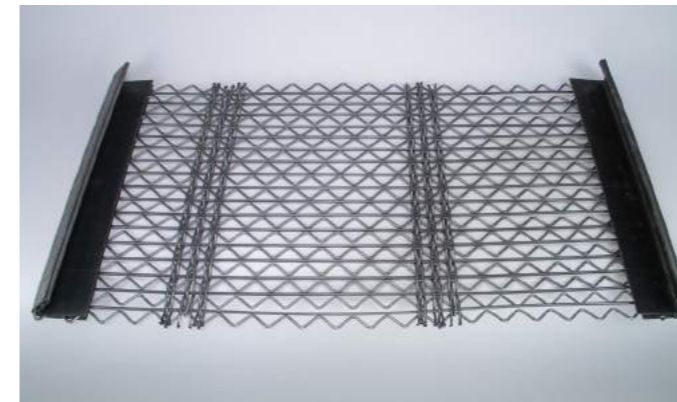
Extra Long Slotted Mesh is manufactured with double or triple cross wires. It is stronger and more cost effective in comparison to Piano Wire or Self-Cleaning Screens. It provides a high open area and higher throughput than normal slotted mesh, decreasing the risk of clogging or binding.



Square Mesh

The most cost efficient of the Woven Mesh range with an extended lifespan, the formation of the wire allows for screening and production of regular shaped material.

Square Mesh decreases the risk of clogging.



Self Cleaning Screens

These screens are recommended where the prevention of clogging and anti-pegging are required, or in very difficult areas.

Crimped and straight wires are connected by cross wires at regular intervals. The wires vibrate independently of each other.



Piano Wire Screens

While more 'fragile' when compared to other screens, Piano Wire gives an excellent performance with throughput and binding.

These Wire Screens are generally supplied for smaller screen sizes where wet and sticky conditions exist.

Crimp Types

Section Drawings



Flat Top

Knuckles on the underside allow material to move freely over the screen. Flat top crimping extends the life of the Woven Screen and helps to avoid pegging.



Double Crimp

Evenly crimped in warp and weft, the wires are sprung together resulting in a tight mesh. This is used mainly with lighter wires to ensure tension for lighter Woven Screens.



Lock Crimp

A variation of the double crimp to ensure the wires remain in position for medium or heavy loaded Woven Screens in quarries, sand and gravel pits and mines.



Corrugated Crimp

Extra crimps in warp and weft, the wires are seated in every third and fifth crimp. Corrugated mesh gives rigidity to manufacturing Slotted Mesh, even when the aperture is large in relation to the diameter of the wire.

Fixing Types



Raw Edge



Hooked Wire



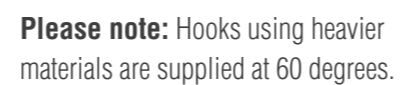
Welded Insert



Sheathed Hook



U-Shaped Hook



Perforated Screens

Perforated Screens

Perforated Metal Screens are available in mild steel, stainless steel and wear resistant materials. Perforated Screens are generally used in Scalping Screens and heavy duty screening applications. They can be supplied flat or hooked for tensioned decks in a wide range of shapes including: round, square, slotted, rectangular and hexagonal.



Percentage Open Area

Square perforations with a square or staggered pitch

$$\frac{100 \times \text{Aperture}^2}{\text{Pitch}^2} = \% \text{ Open Area}$$



Percentage Open Area

Round perforations with a 60° staggered pitch

$$\frac{90.7 \times \text{Aperture}^2}{\text{Pitch}^2} = \% \text{ Open Area}$$

Pegging & Clogging

Perforated Plates have the distinct advantage of utilising tapered holes to reduce the chance of clogging during machine running time.

Perforated Plates should always be installed with the smooth side facing the materials to be screened. To reduce the chances of pegging, it is important to consider the shape of the material in relation to the perforation shape. Regular shaped material is suited to square perforations and irregular shaped material is suited to round perforations.

Our Fabrication Services



Rolling



Folding



Welding



Bolt Holing

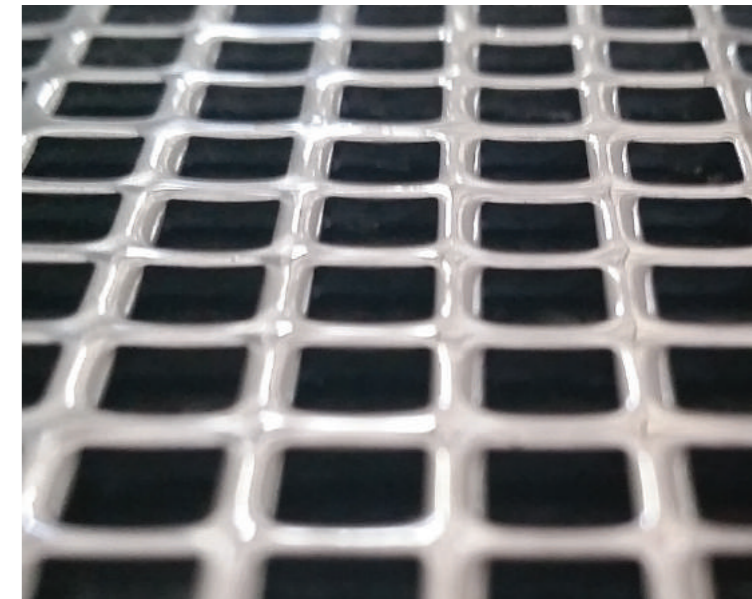


Cutting

Further fabrication is available for Perforated Screens and Trommels which provides our customers with ready-to-fit, custom screens.

Mild Steel & Stainless Steel Manufacturing Capabilities

- Perforated Metal is available from **0.5mm to 25mm thick**
- Plate sizes up to **4m x 2m** can be manufactured
- Perforations range from **0.5mm to 150mm**. Round, square, hexagonal, slotted and elongated perforations are available. Round and square are most suited for screening. Slotted and elongated perforations are used for Dewatering Buckets or, alternatively, for bespoke applications
- Perforated Screens are mostly supplied in mild steel type 43A
- Other materials can be perforated to meet your requirements



Punched Plate Scalping Screens

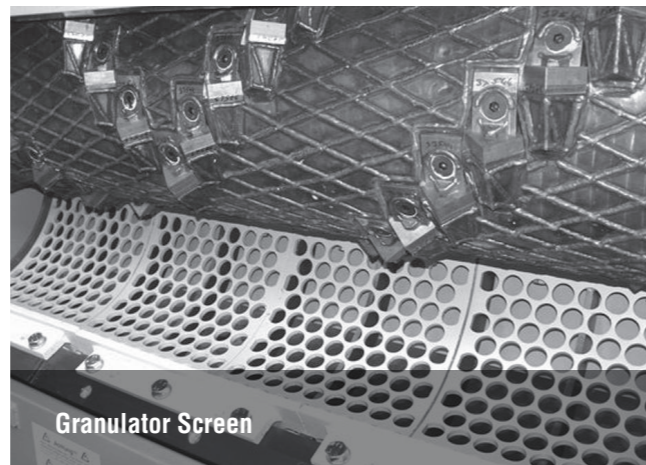
Granulator Screens

Granulator Screens

Our Granulator Screens are suitable for various types of processing. We manufacture extending life industrial screens to suit almost every brand and model of Granulating Machine. Our Granulator Screens are suited for many types of processing. We manufacture custom fit screens for customers with machines which are standard, modified or non-standard. Screens are available in mild steel and 500 HBN, up to 40mm thick depending on hole sizes.



Granulator Screen



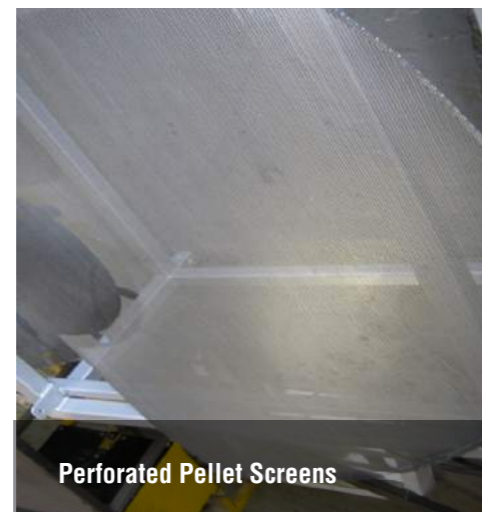
Granulator Screen

Pellet Screens

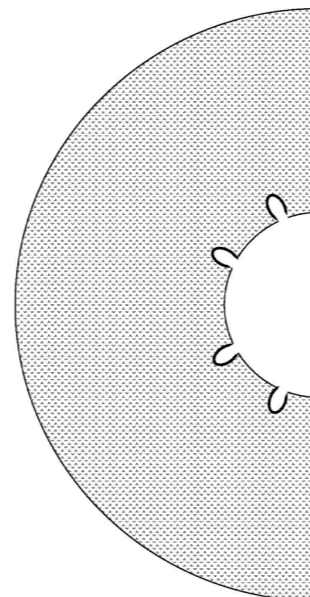
Graepels fabricate Wood Pellet Screens and Animal Food Pellet Screens from Perforated Metal. Our Perforated Metal Screens are manufactured in stainless steel Perforated Plate, and we also supply Woven Mesh for the removal of dusts and fines. Please contact our Graepels team for further details.



Perforated Pellet Screens



Perforated Pellet Screens



Wood Shredder Baskets

Graepels manufacture baskets to your specific requirements, offering cost effective alternatives for all leading makes of Wood Shredder Baskets. Manufactured from 500 HBN steel, we can cut and bend plates up to 40mm in thickness.



Wood Shredder Basket



Wood Shredder Basket - Hexagonal



Wood Shredder Basket - Square



Wood Shredder Basket - Diamond

Perforated Trommels

Perforated Trommels

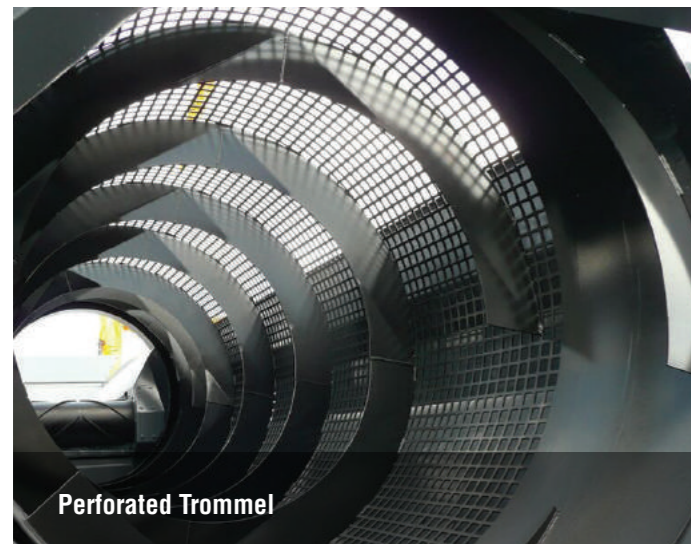
With over 50 years' experience and knowledge in manufacturing Trommels across a wide range of applications, our Trommels are manufactured to meet your specifications. We offer a wide range of screen lengths and diameters to suit all processing requirements.

Perforated Screens are required for sizing or scalping operations or for heavy duty screening where standard screens have limited weight capacity. Screens and Trommels are manufactured in stainless and mild steel. Other abrasion resistant materials are available on request.

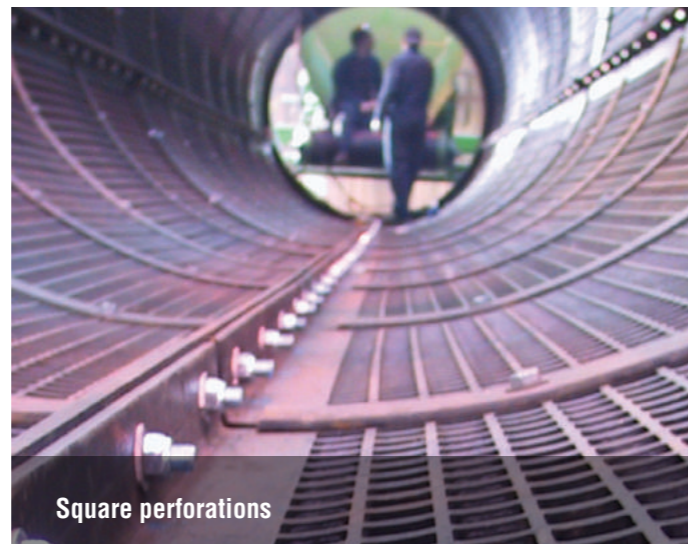
Graepels Screens and Trommels can be perforated in a variety of apertures and shapes. Standard perforations include: round, square and hexagonal. Screens can be supplied flat, hooked or tensioned for decks.

Mild Steel & Stainless Steel Manufacturing Capabilities

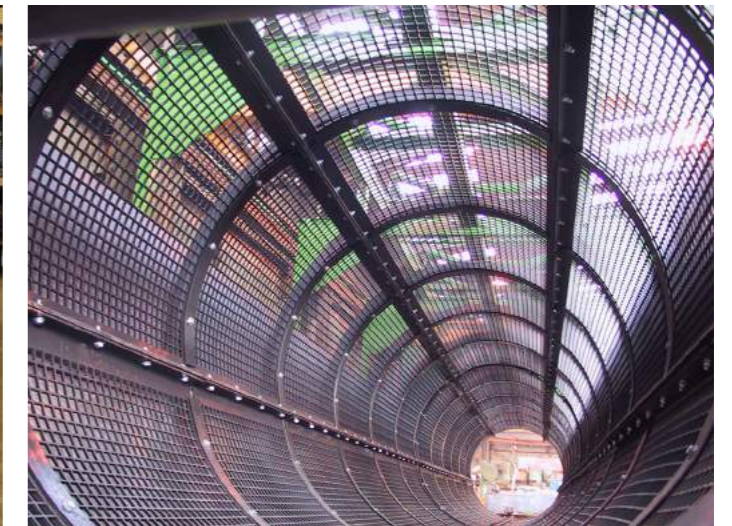
- Perforated Metal is available from **0.5mm** to **25mm** thick
- Plate sizes extend to **4m x 2m**
- Perforations range from **0.5mm** to **150mm**
- Round, square, hexagonal, slotted and elongated perforations are available. Round and square are most popular for screening. Slotted and elongated perforations are used for Dewatering Buckets



Perforated Trommel



Square perforations



Rubber Trommels

Graepels manufacture Rubber Trommel Screens to suit almost all makes of machinery. Screens are fabricated with a steel, plasma cut plate, which holds and supports the Rubber Screen.

These screens are bolted onto the steel frame, which allows for quick and easy replacement and minimises down time.

Rubber Trommel Screens have increased thickness, without excessive additional weight. They are impact absorbing and perform with reduced noise levels and have a longer life span. Rubber Screens are ideal as an impact section on the upper part of a screen box or, alternatively, on a complete deck where required.

Heavy duty mats and supply screens are available up to **35mm thick**. A variety of shapes are available including: round, square, slotted and hexagonal perforations. Rubber Screens are available from **4mm** to **125mm**.

Graepels manufacture Rubber Screens to suit all types of mobile and static plant. **We offer a complimentary on site measuring service and are happy to discuss any queries you may have.**



Perforated Trommel Screens



Polyurethane & Rubber Screen Mats

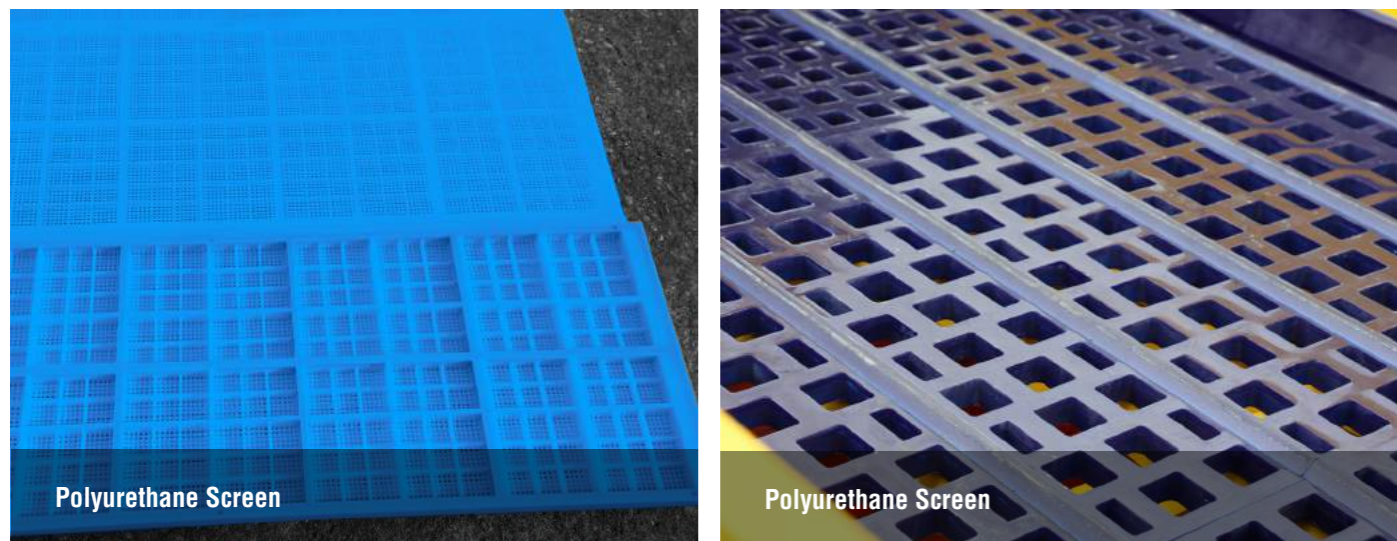
Rubber Screens

Rubber Screens offer many advantages including a longer life span and reduced noise levels. They are particularly suited to the upper part of screen decks, or on a complete deck, where required. We manufacture rubber from 3mm thick up to 35mm, and offer a range of apertures from 3mm to 150mm.



Polyurethane Screens

Polyurethane Screens tend to be lighter, thinner and more flexible than Rubber Screens and can be successfully punched in different hole shapes with smaller apertures. Polyurethane Screens work best where plugging is an issue. Graepels manufacture tensioned Polyurethane Screens.

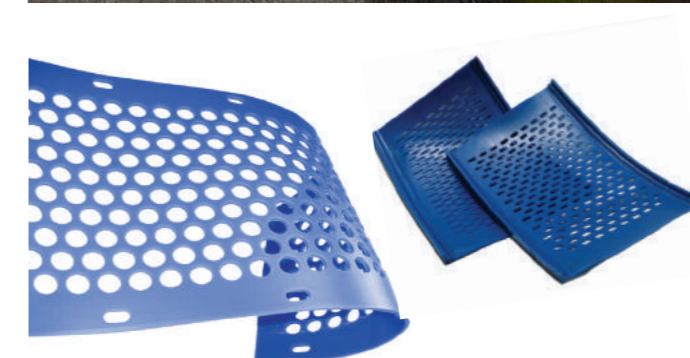


Flip Flow Screens

Graepels manufacture Flip Flow Screens to suit: Binder, Finlay Spaleck, CRS, Powerscreen Spaleck, Kiverco Spaleck, Waste Systems, Edge, IFE, and Triso.



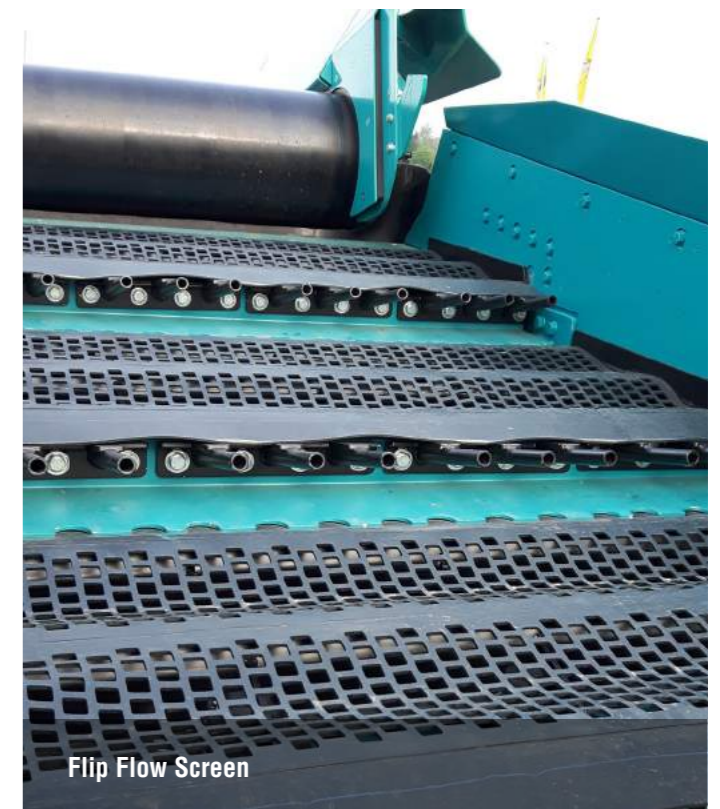
Flip Flow Screen



Available in 85 Shore Polyurethane or 80 Shore Vulkollan

Benefits

- Flip Flow Screens work particularly well to separate difficult materials such as: wood chip, building rubble, soil and plastic - especially when sticky or wet
- They boast a high wear resistant tolerance and are quick and easy to replace
- Available in a variety of lengths and widths, they are suitable for all screen machines
- A wide variety of apertures, perforation sizes and shapes (round, square, slotted and hexagonal) are available



Flip Flow Screen

Finger Screens

Top Deck Finger Screens

Graepels offer bespoke new systems for a wide variety of mobile and static plant. Graepels offer complete new assemblies, replacement products and fabrication services, depending on your requirements.

Designed for top deck use, Graepels Finger Deck System is ideal for handling a variety of demanding applications. With an open end screen, the fingers are ideal for landfill waste and construction and demolition waste.

Each individual finger is heavy duty 380mm spring steel fixed into a box section with a special heavy duty boss, tightened to a specific torque. Triple welds hold the heavy duty boss and box section frame, bolting easily into an existing screen box.

Available apertures range from 40mm to 150mm



Bottom Finger Screens

Bottom deck screening rods are set into polyurethane mounting blocks and vibrate at the free end according to the running speed of the screen box. The poly block modules are easily interchangeable for quick aperture changes.



Bottom Finger Screens

Due to the difference in the diameters and lengths of rods and the loads imposed, the vibratory motion of the individual fingers varies. This ensures the space between the fingers does not clog and is ideal for screening wet and contaminated soil.

Available apertures range from 8mm to 30mm

Bespoke or OEM systems available

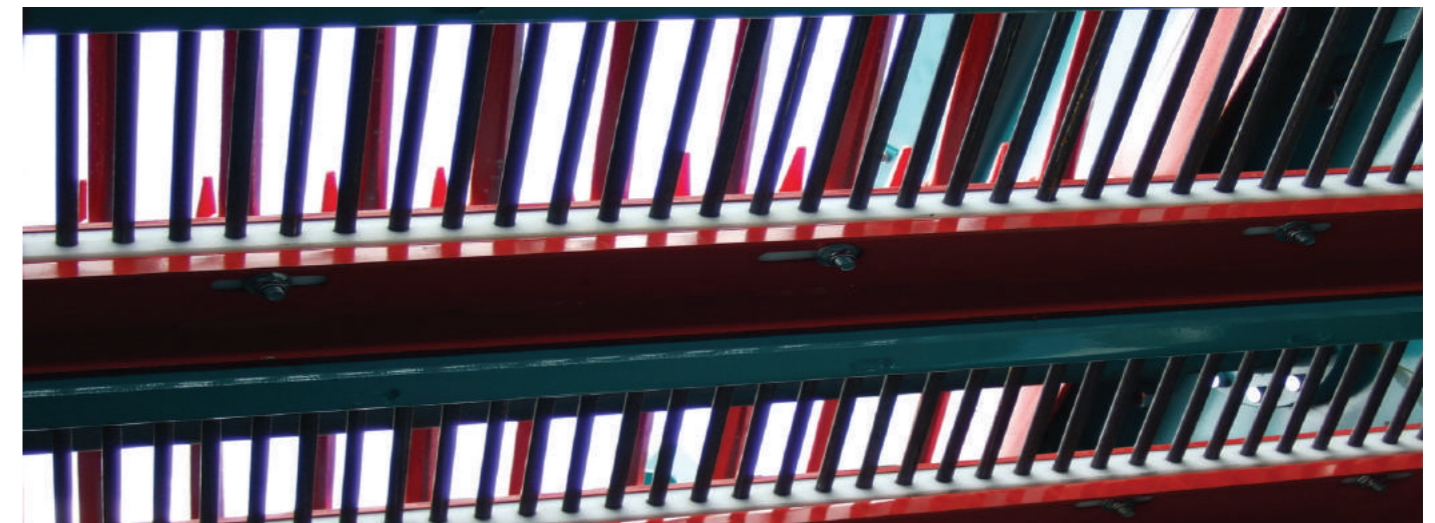
Applications for Finger Screens

- Contaminated soil
- Recycling
- Excavation
- Reclamation
- Landfill
- Screening and Separation
- Demolition
- Rip Rock



Graepels Finger Screens are designed specifically for the Quarrying and Recycling Industries and are manufactured from the highest quality tensile steel. Our Finger Screens can be fitted with little to no modification to the screen box and are available in a wide variety of apertures and wire diameters.

All fingers and holders can be individually replaced.



Bucket Screens



Dewatering Buckets

Graepels Dewatering Sand Buckets are offered in a range of round and slotted perforated apertures.

Our Bucket Screens are finished in a heavy duty plastic coating and are manufactured to meet customer requirements.

Powerscreen Range

- Trident 1
- Trident 2
- Finemaster 60, 120, 200

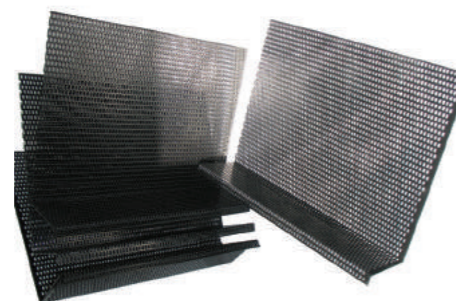
Terex Range

- T150
- FM 60BW

Finlay Range

- 150E
- 200E
- SM45

Complimentary on site measuring is available



Spares & Wear Parts

Graepels offer a competitive range of replacement spares including:

- Capping skirting & scraper rubber
- Tension, clamp & impact bars
- Quick release tension pin & wedges
- Support springs
- Trommel brushes and chains
- Rollers incl. return rollers
- Finger systems
- Grizzly bars / Bofor grids
- Crusher plates
- Shredder teeth & shredder gates
- Nuts & bolts

Please note: this is not an extensive list.

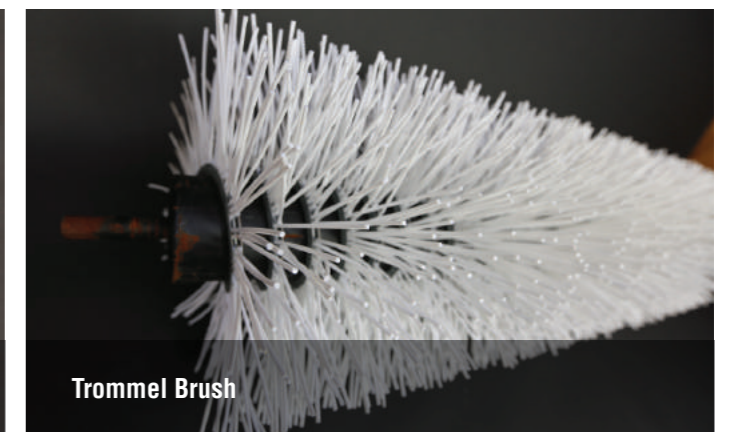
Please contact Graepels for more information.

Spares & Wear Parts

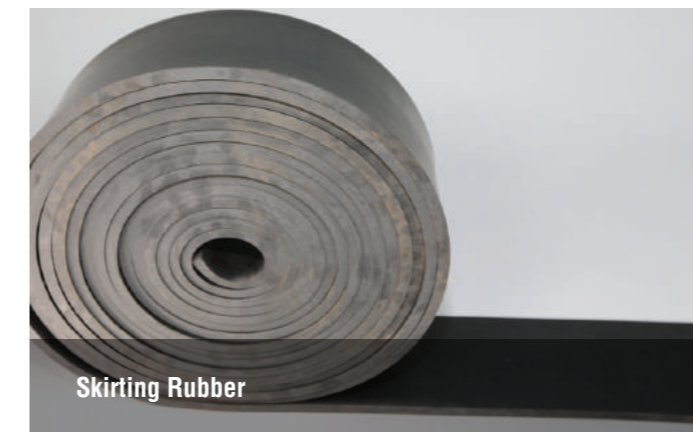
We offer a competitive range of replacement spares including: Clamp Plates, Quick Release Tension Pins & Wedges, Skirting Rubber, Impact Bars, Conveyor Rollers and Trommel Brushes. Please ask any of our sales staff for further details.



Clamps, Tension Pins & Wedges



Trommel Brush



Skirting Rubber



Rollers



Impact Bar

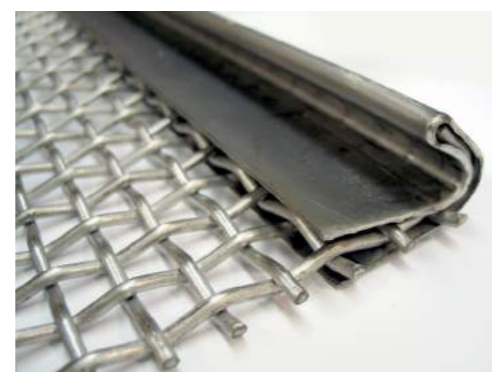


Clamp Bar

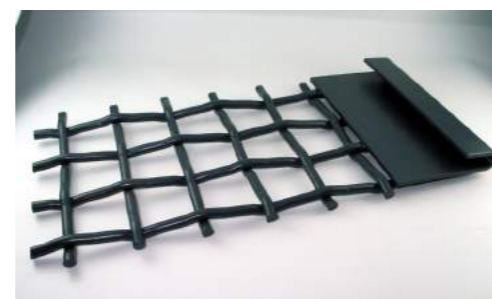
Heavy Duty Mesh Screens

Asphalt Batching Plants

Graepels pride ourselves with over 50 years of Screen Mesh manufacturing. Our heavy duty Screen Meshes are specifically made for the grading of road stone and we manufacture Heavy Duty Screen Mesh to suit many types of asphalt batching plants.



Heavy Duty - Woven Screen Mesh



Heavy Duty - Woven Screen Mesh



Heavy Duty - Woven Screen Mesh

Benninghoven - Parker Plant - Phoenix Transworld - Ammann

Filters & De-Packing Screens

Anaerobic Digestion Plants

Graepels offer a range of bespoke solutions for Wedge Wire De-Watering Screens and Filters. Custom made De-Packing Screen Plates are also available and manufactured to customer specifications.



Wedge Wire Filter



Pump - Filter fits inside



Graepels Metal Flooring

Graepels Steps and Flooring



Universal



Stabil S



Stabil Xtrem



Steg

Graepels Ladder Rungs

Ladder Rungs are made from punched and pressed sheet steel; they are normally welded in place to make up safety ladders.



Graepel 22 Round 8



Graepel 35 Metric



Graepel 60 Stabil



Graepel 55 Metric

The above range of products are held ex-stock, and are available for next day delivery if necessary. Other profiles are available upon request. For further information, please contact our Sales Office to request brochures. Please see the back cover for our contact details.



Graepels Light Profile



Graepels Light Profile is an excellent alternative to Flat Bar Grating. Graepels specialize in **Perforated Metal Flooring, Walkways, Platforms, Steps and Ladder Rungs**. Our flooring, steps and ladder rungs are used across the public, private and commercial sectors. Graepels specialise in anti-slip flooring tested for slip resistance with R-Ratings for each pattern, reducing the risks of slips or injury.

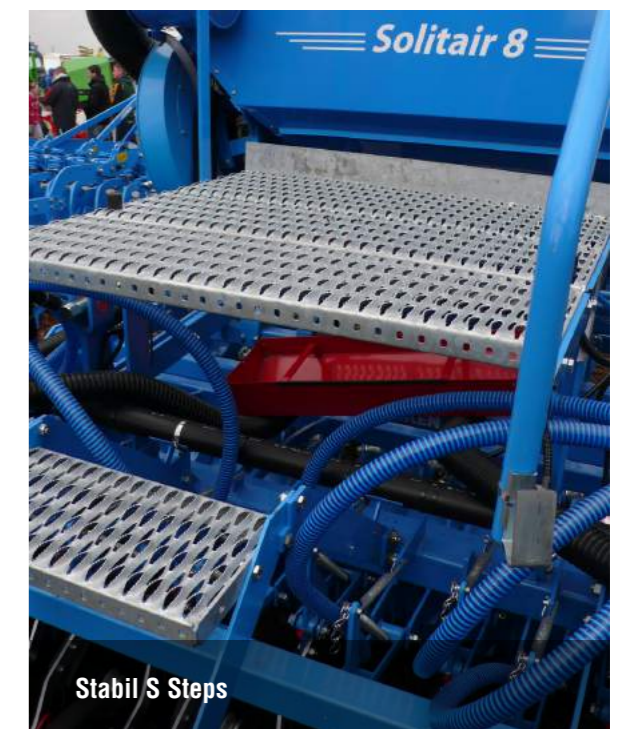
Flat Bar Grating vs Graepels Light Profile

- Open area between 74% - 80%
- Stainless Steel Flat Bar Grating is not readily available off the shelf
- High strength to weight ratio
- Bespoke manufacturing for special applications
- Used on crushers, agricultural machines and coverings capable of being walked on, for example, bunkers and pits with cohesive loose goods, such as grains or ground particles

Graepels offer over 20 types of SafeDeck available in a variety of widths, lengths and flange heights. Our flooring types are suitable for various uses, e.g., SafeDeck Perl is suitable for barefoot usage.



Graepels I.S. EN ISO
9001:2008 NSAI Certified



Stabil S Steps

Additional Industry Sectors

Graepels are industry leaders in manufacturing Perforated Metal and Woven Wire products since 1959. In addition to manufacturing products for the Quarrying and Recycling Industries, Graepels have been supplying a range of other industries such as the Architectural, Construction, Agricultural and Quarrying Industries. Contact our Sales Office for further information. Please find our contact details on the back page.

- **ARCHITECTURE**

Graepels works closely with Architects and Designers from the beginning of any project

- **CONSTRUCTION & INDUSTRIAL**

We have more than 50 years' experience working with the Construction and Industrial Industries

- **QUARRYING & MINING**

Graepels have been manufacturing products for the Quarrying and Mining Industries for over 50 years

- **WASTE MANAGEMENT & RECYCLING**

Graepels manufacture a range of products for the Waste Management and Recycling Industry

- **PUBLIC ART & SCULPTURE**

From the beginning of any project we work very closely with Designers and Artists to ensure the best design outcomes

- **AGRICULTURAL**

We offer a full range of Perforated Metal and Woven Wire Mesh products which are widely used within the Agricultural Industry

- **LANDSCAPING & GARDEN DESIGN**

Graepels products are often utilized in Landscaping and Garden Design

- **MARITIME & FISHERIES**

We are specialist manufacturers of smoking trays and fish egg hatching trays

Additional Graepels Catalogues

PRODUCT RANGE CATALOGUE

The Product Range catalogue gives a comprehensive overview of the Perforated Metal, Woven Wire and Rubber products available from Graepels. It also highlights the many applications of our products.

THE COMPLETE SAFEDECK PRODUCT RANGE

Find a complete overview of Graepels SafeDeck Perforated Metal Flooring products in this catalogue, which includes technical data for designers, planners, architects and builders.

SAFEDECK PRODUCT RANGE

The SafeDeck Product Range catalogue highlights Graepels extensive flooring range, in addition to providing examples of its many uses and applications.

PROJECT CATALOGUE

Graepels Project Catalogue highlights the variety of applications for our Perforated Metal, Woven Wire and Rubber products. It also includes Graepels bespoke product offerings, in addition to the Picture-Perf range.

