



Graepel

# PROJECT CATALOGUE





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Graepel has a long-standing tradition of producing high quality products. We have been supplying the architectural and building industry for over 50 years. During this time we have had the opportunity to work on some exciting and interesting projects.

It is always rewarding to see a vision become a reality by using our products in an innovative way. We are always delighted to work with you to ensure that our product can add an edge to your design project. We can work with your CAD drawings to help develop cost effective solutions to your requirements.

Graepel is committed to providing standard and bespoke items, we are continually researching new ideas and looking to provide new products.

Please take the time to look at a selection of the projects we have had an opportunity to work with in the past. We hope this will inspire you to realise that the possibilities and uses of our products are truly limitless.





**Project:** Shopping centre sun shades, built into the ceiling.

**Specification:** 6.35mm round hole at 11.1mm staggered pitch.

**Application:** Due to the large glass roof, the architect needed to reduce the overall direct sunlight, the solution was the perforated sun shades.

The 30% open area available with this specification allows the required percentage of sunlight to shine through especially in winter when the sun is low in the sky.

**Project:** A staircase around a lift shaft with a transparent perforated wall.

**Specification:**

- \* Lift shaft: 9.5mm round hole at 14.2mm staggered pitch.
- \* Wall light: 6.35mm round hole at 9.5mm staggered pitch.

**Application:** There were a number of areas within the visitor centre that needed to be inaccessible to the general public. The specification chosen ensures these areas could still be visible to the visitor. The perforated wall light complements its surroundings and adds a contemporary feel.



There are many exterior and interior design uses for perforated metal.

The image on the left illustrates our new product 'Picture Perf', more information on this exciting new development is on page 16.

Other examples of use for perforated metal, include lighting, desks, ceiling panels and signage. The possibilities are endless.

An important attribute of perforated metal is light diffusion. Variations in perforations can create a variety of lighting effects.



# PERFORATED METAL



**Project:** Indoor garden conservatory.

**Specification:** 25mm square hole at 45 degree pitch. Powder coated in 3mm thick mild steel material.

**Application:** A decorative perforation was required to both complement the surroundings and flowers within a historical setting.

**Project:** Spiral staircase in an arts centre.

**Specification:** 6.35mm round hole, 11.1mm staggered pitch in 2mm mild steel, edged with Graepel U-strip and powder coated.

**Application:** Curved perforated balustrade infill panels on a free-standing spiral staircase.



**Sun shades (left):** Can act as a pergola to shade the sun while still allowing a certain amount of light to get through.

**Staircase balustrade (right):** For further examples of staircase balustrades, please go to page 13.



RESH small



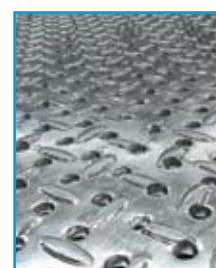
Heavy round



Floral pattern



Square



Perforated chequerplate





**Project:** Pedestrian railway bridge.

**Specification:** 13mm round hole with 19mm staggered pitch in 3mm pre-galvanised steel and a powder coated finish.

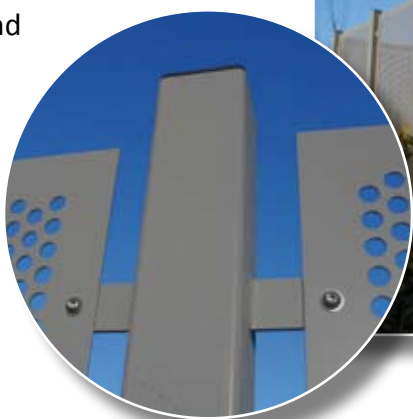
**Application:** The brief was to provide an enclosed bridge which had to allow visibility but prevent objects from falling on to the railway below.



**Project:** Bin enclosure at a university.

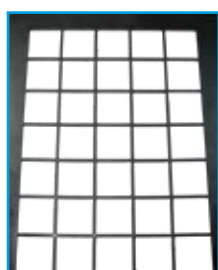
**Specification:** 13mm round hole at 19mm staggered pitch in 3mm thick steel, pre-galvanised and powder-coated.

**Application:** Bin enclosure made from standard stock perforated panels.



**Balconies:** Balcony panelling requires safety, privacy, durability, low maintenance and protection from the elements.

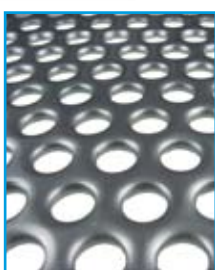
Perforated panelling acts as an effective wind-break cutting down on turbulence.



Large square



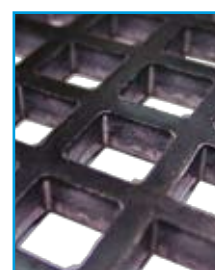
Club shape



Round hole



Round slotted-countersunk



Heavy square

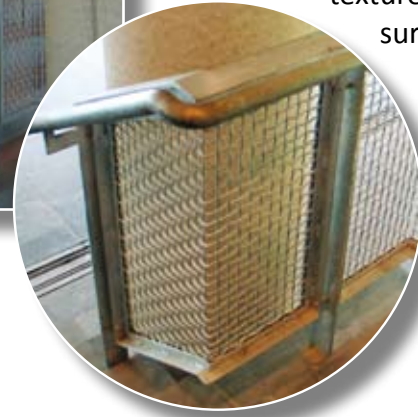
# WOVEN WIRE



**Project:** Staircase inside a university art gallery.

**Specification:** 30mm square mesh. 6.35mm high tensile wire, framed with angle iron and U-strip edging.

**Application:** An attractive durable alternative to welded mesh with a textured interwoven surface.



**Project:** Railway station enclosure.

**Specification:** 15mm square woven mesh with a 4mm thick stainless steel wire.

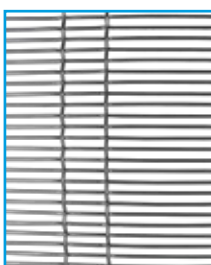
**Application:** To enclose a large open area outside a railway station preventing vandalism while still allowing light into the area.



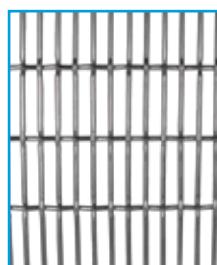
Graepel has the skill and experience to produce a wide range of different meshes.

Below is a selection.

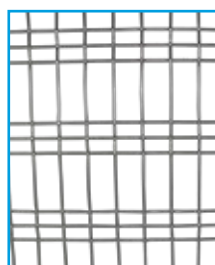
Other meshes can be manufactured on request.



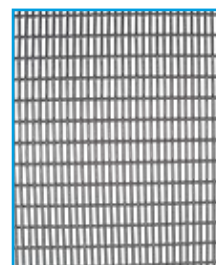
Belfast



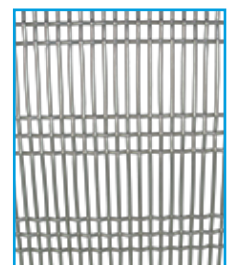
Dublin



Burtonwood



Kinsale



Cork



**Project:** Railway station walkway bridge and stairs.

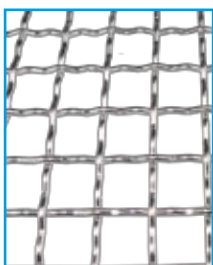
**Specification:** Square woven wire mesh with a 13mm aperture in 5mm wire. It was hot dipped galvanised and powder coated after manufacture.

**Application:** Woven mesh was used for it's aesthetics and effectiveness against vandalism.

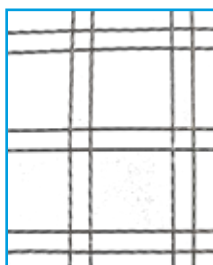


Woven mesh has many uses. In balustrades, balconies, fencing, enclosures and much more, it's got a tensile strength of more than twice that of mild steel, making it strong and versatile.

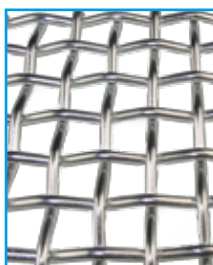
It has the flexibility in design where minor alterations can change the final look completely.



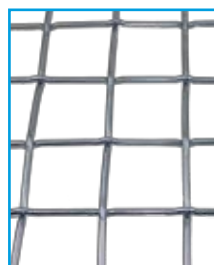
Square double crimp



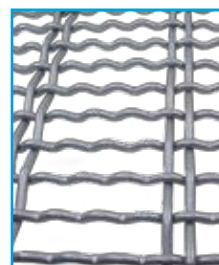
Tartan mesh



Plain lock weave



Lock crimp



Slotted double chute

# WOVEN WIRE



**Project:** balconies at an apartment development.

**Specification:** 25mm high tensile mesh in 3mm wire.

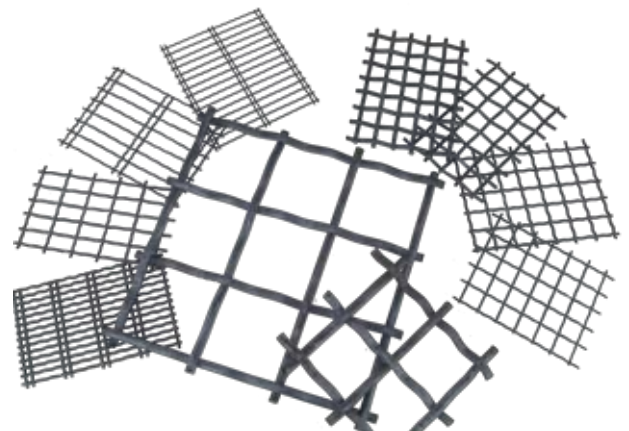
**Application:** The blend of woven wire balconies and perforated metal balustrades added a unique element to an apartment development. It allowed private balcony area to be created while still allowing light to shine through.



**Project:** Balconies on an apartment development overlooking a river view.

**Specification:** 30 mm square mesh with 5mm high tensile wire.

**Application:** The client required a strong mesh with a high percentage open area enabling residents to make the most of the view, while still having a secure balcony.

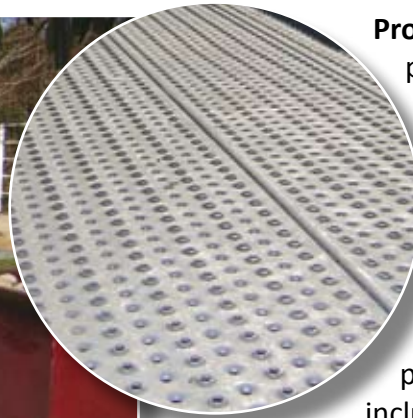




**Project:** Retail outlet

**Specification:** SafeDeck Diamond.

**Application:** The Safedeck flooring provides safe access to the next level of the retail outlet.



**Project:** Landscaping project.

**Specification:**

Galvanised round 'K' SafeDeck product was chosen. Suitable for public use

including high heel shoes.

**Application:** This bespoke design illustrates the product as a garden feature.

Graepel SafeDeck flooring is an innovative and versatile product with no less than 16 different surface types. For further details please ask for technical brochure.

Car park cladding.



Exterior stage area with lighting on underside.



Exterior balcony with high quality glass bead finish.



# SAFEDECK FLOORING



**Project:** Marina.

**Specification:** SafeDeck Round 'N'.

**Application:** Round 'N' is suitable for barefoot use. The drainage holes are perforated downwards and the grip is obtained by dimpling the surface.

## Finishes:

### \* Aluminium

- Natural mill finish
- Pickled
- Anodised finish
- Powder-coated

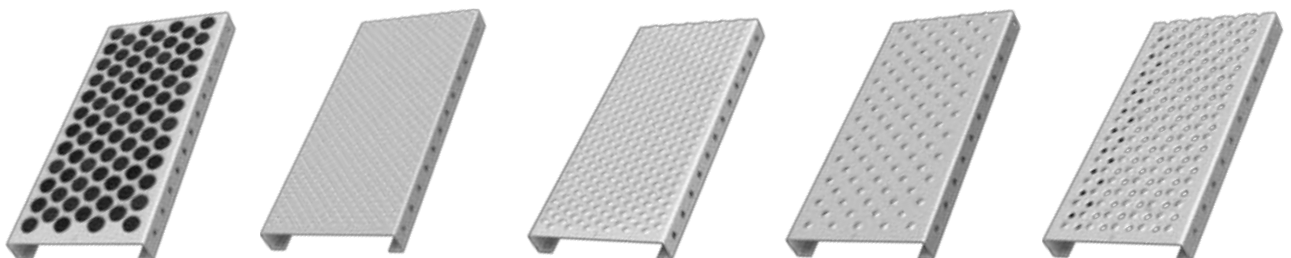
### \* Stainless Steel

- Natural 2B finish
- Pickled and passivated
- Glass bead blasted
- Electro- polished (very bright finish)



### \* Steel

- Natural steel
- Galvanised steel
- Painted
- Galvanised and painted
- Electroplated







**Project:** Improved access to church.

**Specification:** Galvanised SafeDeck Round 'K'.

**Application:** Wheelchair ramp for church entrance, suitable for public use.



**Project:** Balcony entrance.

**Specification:** Galvanised SafeDeck Cone.

**Application:** Holes perforated into the grating allow for water drainage.

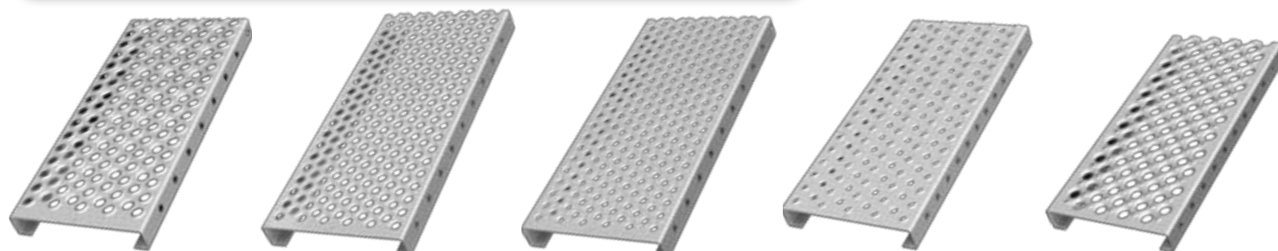
Perforated holes allow the use of entry and exit light fittings.



**Project:** Escape walkway.

**Specification:** SafeDeck Round 'S' galvanised.

**Application:** Fire escape on the first floor of a primary school.





# SAFEDECK FLOORING



**Project:** Pedestrian bridge.

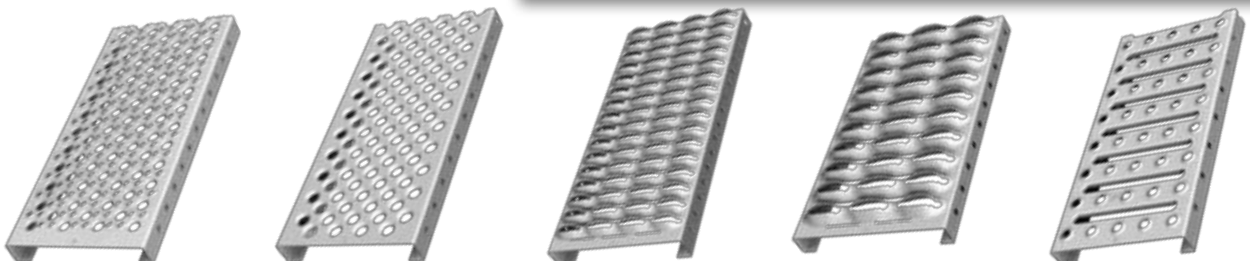
**Specification:** SafeDeck Round 'S' galvanised.

**Application:** Pedestrian bridge fitted with SafeDeck flooring to create a good safe walking surface.

**Project:** Wheelchair ramp to access offices.

**Specification:** SafeDeck Round 'S' galvanised.

**Application:** Wheelchair ramp for access to senior citizen accommodation. SafeDeck provides a non-slip surface and the holes allow for drainage.







**Project:** External roof access.

**Specification:** SafeDeck Round 'S' galvanised.

**Application:** Provides compact staircase in an area where space is limited.



Graepel spiral staircases are supplied in kit form, ready for easy installation.

Staircases come with the accompanying handrails and balustrades. Steel staircases can also be combined with other products such as perforated metal and woven wire mesh to provide a more modern finish.



# STAIRCASES



**Project:** Custom-made spiral staircase with lighting inserts in steps.

**Specification:** SafeDeck Cone in stainless steel.

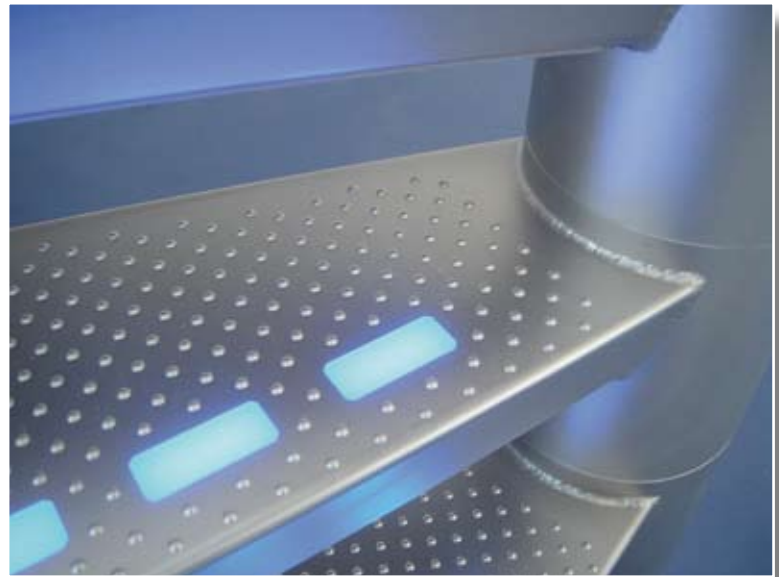
**Application:** This staircase is in the reception area of Graepel in Seehausen, Germany.

**Finish:** Bead blasted Stainless Steel.

This staircase is an example of the high quality finish and design that can be achieved using SafeDeck products.

The LED lighting makes the steps visible without having to light up the area.

The staircase can be further enhanced with the use of wood and glass.



SafeDeck Cone is a good option for domestic use.

The shallow dimples give ample grip, while walking barefoot.

The bead blasted finish gives the stainless steel a nice bright appearance.





**Project:** Stairway at a tram station.

**Specification:** 9.5mm round hole with a 14.2mm staggered pitch galvanised balstrading.

**Application:** The purpose of this design was to make everything look light and transparent. The perforated metal in combination with the cantilever steps worked well.



**Project:** Stairway access to commercial unit.

**Specification:**

\* Steps: SafeDeck Round 'K' galvanised. Flame retardant.

\* Balustrade infills: Perforated 9.5mm round hole, 14.2mm pitch. Pre-galvanised and powder coated finish.

**Application:** The combination of SafeDeck and perforated panels provide an effective stairway entrance to a commercial unit. The application shown illustrates Graepel's ability to produce parrallelograms and irregular shapes for balustrades.



# PICTURE PERF



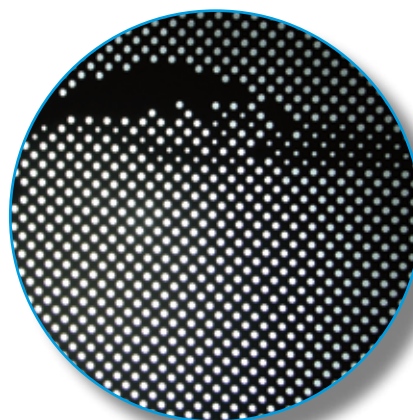
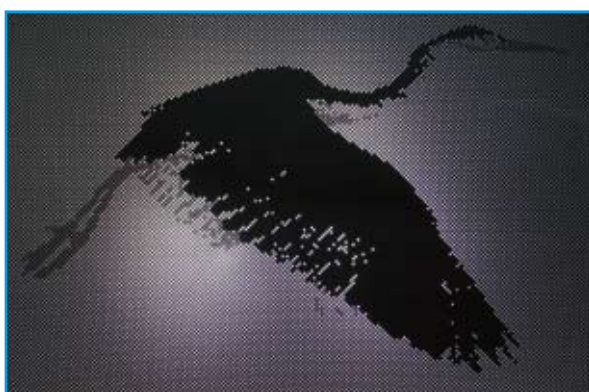
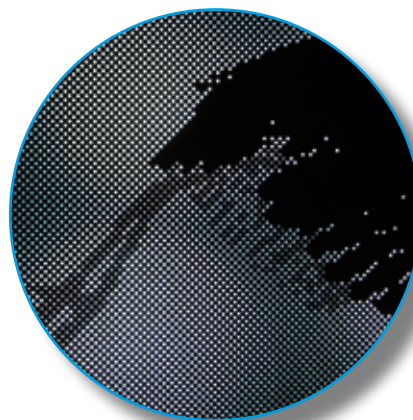
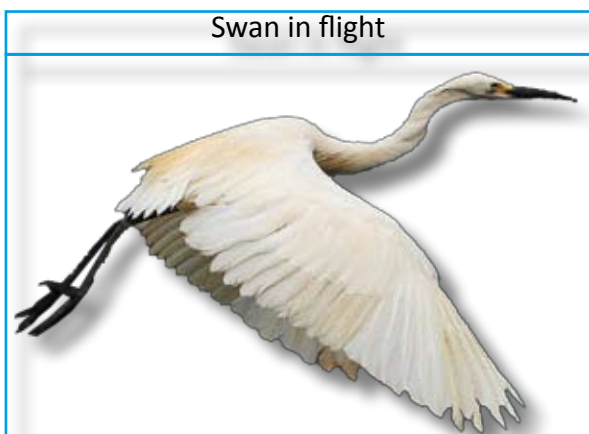
To the left is a close-up of the detail of the perforation as shown using the Graepel logo.

'Picture perf' is a new service available from Graepel, offering bespoke signage and logos by perforating images onto metal panels.

Different sized holes can be used to create alternative densities and shading.

The 'Picture perf' is achieved by turning the pixels of the picture or vector image into a series of holes of varying sizes which when perforated displays an image of the picture.

'Picture perf' is a modern contemporary perforated product that works well with lighting.

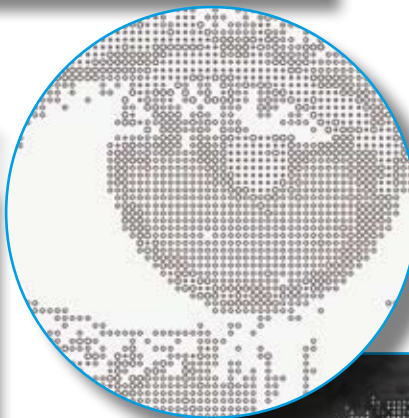
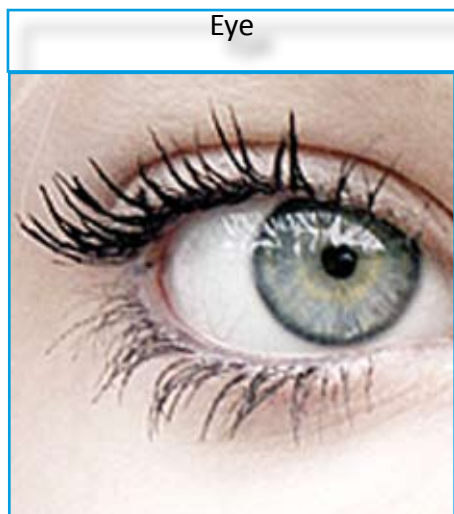
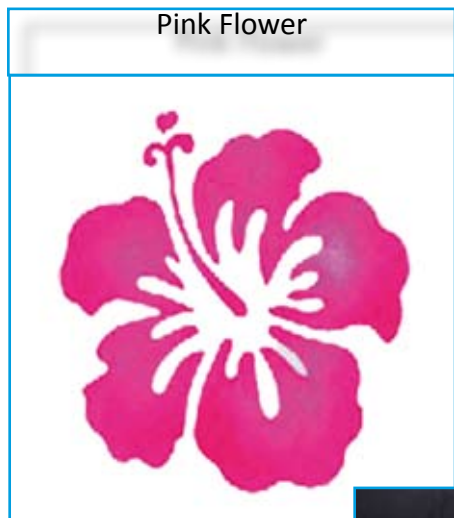




Intricate patterns can be created as shown below.

These can be further enhanced by changing the colour of the material used.

The possibilities are endless.



# PROFILE EDGING

At Graepel we also provide a range of profile edging for our perforated and woven mesh products. On this page are examples of the variety of uses and the finish provided by using our edging products.

The Graepel 'U Strip Profile' frames raw edges of sheets but doesn't make them as stiff due to its flatter profile.



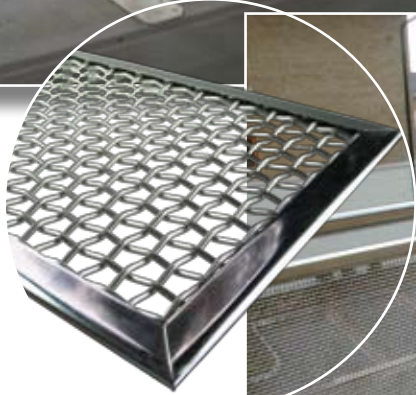
Graepel 'Click Profile' frames raw edges and makes floppy sheets more rigid.

'Click Elbow' aligns joints making it possible to edge panels without having to weld the corners.

Any angle can be obtained by simply bending the profile to the required shape before insertion.



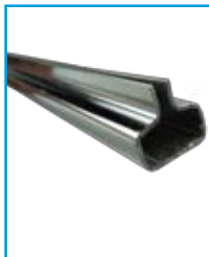
The 'Click Elbow' joints are useful in situations where it is difficult to weld the profile together or where very clean joints are required.



'Click Round'



'U strip'



'Click Rectangular'



'Click Round Elbow'



'Click Rectangular Elbow'



Graepel has recently invested in new perforating and fabrication machinery increasing our ability to produce more complex, higher quality products.

## Capabilities

**Perforated sheet** size and thickness - up to 2m wide x 4m long and from 0.5mm to 25mm thick materials.

**Woven mesh** size – up to 2.5m wide x any length (restricted by the mesh type and weight) with wire thicknesses from 1.6mm to 12mm

**SafeDeck Flooring** – Available in 18 different surfaces. Please see SafeDeck flooring brochure.

## Main Materials

Graepel's products are supplied in the following materials – Mild Steel, Pre-Galvanised, High Tensile, Stainless, Aluminium, Titanium, Copper and Brass.

## Finishes

The following Material finishes can be offered

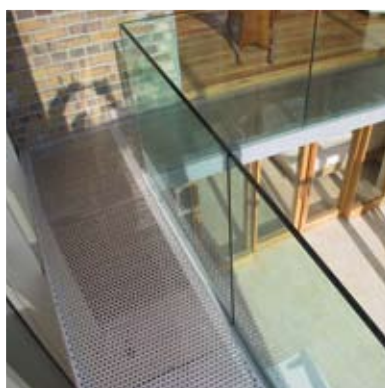
- Waxed Steel - for dry indoor use
- Pre Galvanised
- Powder Coated
- Electroplated Steel
- Anodised Aluminium
- Hot Dipped Galvanising
- Electro polished Stainless Steel
- Bead blasted stainless steel
- Brushed finish stainless steel
- Bright annealed stainless steel (shiny reflective finish)

## Fabrication

Our fabrication services include cutting, rolling, bending, welding etc.



Perforated ceiling panels



Square perforated flooring



Slotted perforated balustrade

Please check out [www.graepel.ie](http://www.graepel.ie) or [www.graepel.co.uk](http://www.graepel.co.uk) where you can download all our brochures and get more product information.



Woven Mesh



SafeDeck Metal Flooring

Graepel Perforators & Weavers Ltd	Graepel Perforators & Weavers Ltd	Graepel Perforators Ltd	Graepel Perforators Ltd
Barrack Green Kinsale Co. Cork	Unit 6 Ballymount Road Industrial Estate Walkinstown, Dublin 12	Burtonwood Industrial Centre Burtonwood, Warrington WA5 4HX	7 Grangewood Hill Dundonald, Belfast BT16 1GQ
tel +353 (0) 21 4772105 fax +353 (0) 21 4772005 email sales@graepel.ie	tel +353 (0) 1 4509955 fax +353 (0) 1 4509815 email dublin@graepel.ie	tel +44 (0) 1925 229809 fax +44 (0) 1925 228069 email sales@graepel.co.uk	tel +44 (0) 28 90484800 fax +44 (0) 28 90538162 email roy@graepel.co.uk
<p><a href="http://www.graepel.ie">www.graepel.ie</a> - <a href="http://www.graepel.co.uk">www.graepel.co.uk</a>            SERVICING THE INDUSTRY SINCE 1889            IS.EN ISO:9001:2008</p>			