



GROUND REINFORCEMENT & GEOTECHNICAL

HORTICULTURE & AGRICULTURE

CONSTRUCTION

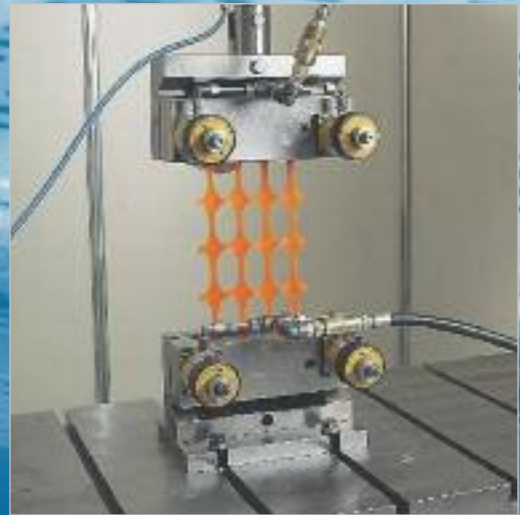
PACKAGING

INDUSTRIAL

**4**  
**MUST**

# Welcome to **MESH**4

MUST



We have exclusive distribution rights within the UK for all Tenax branded products, and also work closely with other European and Global manufacturers. We pride ourselves in the fact that all the products that we distribute into the respective market places, are of the highest quality and are ISO 9001 certified.



With more than 3 decades of trading, Mesh 4 Ltd (Formally Tenax UK) is a trusted partner of professionals in many market sectors:

- Ground Reinforcement
- Agriculture & Horticulture
- Commercial & Construction
- Packaging
- Industrial

With the exclusive UK distribution rights for the renowned Tenax range, and a European and Global sourcing team, we are able to offer an unparalleled, constantly evolving product range.

You can be confident in the integrity of our products - Each is carefully selected or developed to be of the highest quality and all are ISO 9001 certified.

With a focus on NPD, our team based in the UK, Europe and Asia have an on-going commitment to evolving and innovating our range; providing products that are more functional, more durable and easier to install. These key objectives ensure we maintain and expand our customer base year after year.

The new improved Mesh 4 product information guide has been completely redesigned to make product selection easier for you and to provide vital information clearly and concisely. Colour coded into the various key market sectors, the guide shows the features & benefits of each product along with the various size and colour options available.

#### Customer Focussed

The fully trained Mesh 4 customer service team are able to provide you with all the information that you need to ensure a successfully completed project. Not only can they advise on the most suitable product for your specific application, but they can also assist with installation advice and quantity surveying.

Where more "hands on" assistance is required, a member of our "Project Team" can visit your premises, or even offer an on-site evaluation for your project - it's all part of the Mesh 4 service!

The Mesh 4 aftersales team are also on hand to ensure that you get the most out of your product and to provide ongoing support.

#### Your order - where you need it, when you need it!

At Mesh 4 we understand that once you have selected product, you need it delivered quickly and efficiently. Our 'State of the art' warehouse and extensive stock holding ensures that the majority of orders are picked and despatched on the same day you place your order! We have a standard 3 working day delivery service, but of course if you have an urgent project need, an upgraded next day service is available too. For larger orders, we can deliver direct from the factory to site or your premises on dedicated vehicles.

**Mesh 4 - your trusted partner.**

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# GROUND REINFORCEMENT & EROSION CONTROL





The GP Flex products are all SUDs compliant (Sustainable Urban Drainage Systems) and ISO 9001 quality assured products. The GP Flex is designed to protect and strengthen grassed areas that will then be suitable for applications such as overflow carparks, caravan parking, grassed access roads, cycle paths and event parking.

The GP Flex mesh has an oscillated pattern, and is unique due to the slip resistant surface. This safety feature has been tested to BS 7976-2 and when tested alongside other grass protection meshes, the GP Flex has shown an improvement of over 33% by comparison. The mesh is quick & easy to install and there are no special skills required.

#### FEATURES

- Unique Anti Slip Surface
- Up to 8 Tonnes weight bearing limit
- Oscillated Mesh provides increased tensile strength
- SUDS Compliant
- Easy to Install (No special skills required)
- Chemically Inert
- Rot resistant

#### APPLICATIONS

- Carparks
- Light Aircraft Taxiways
- Caravan Parks
- Cycle Paths, Grass Access Roads
- Wheel Chair Access Routes
- Temporary Emergency Vehicle Access Routes
- Suitable for livestock field applications

CODE	DESCRIPTION	SIZE	WEIGHT g/m <sup>2</sup>	FORMAT
1A090299	GP-Flex® 1000 (Green/Brown Finish)	2m x 20m	1000g	Reel
3A100569	GP-Flex® 1000 (Green/Brown Finish)	1m x 10m	1000g	Reel
3A152922	GP-Flex® 1000 (Green/Brown Finish)	2m x 10m	1000g	Reel
3A132670	GP-Flex® 1000 (Green/Brown Finish)	1m x 20m	1000g	Reel
1A090470	GP-Flex® 1400 (Green/Brown Finish)	2m x 20m	1400g	Reel
3A100570	GP-Flex® 1400 (Green/Brown Finish)	1m x 10m	1400g	Reel
3A152923	GP-Flex® 1400 (Green/Brown Finish)	2m x 10m	1400g	Reel
3A122367	GP-Flex® 1400 (Green/Brown Finish)	1m x 20m	1400g	Reel
1A090471	GP-Flex® 1800 (Green/Brown Finish)	2m x 20m	1800g	Reel
3A142781	GP-Flex® 1800 (Green/Brown Finish)	1m x 10m	1800g	Reel
3A152924	GP-Flex® 1800 (Green/Brown Finish)	2m x 10m	1800g	Reel
3A122262	GP-Flex® 1800 (Green/Brown Finish)	1m x 20m	1800g	Reel





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TR-Flex™ is a light weight flexible mesh which can be used for many applications such as lawn protection, embankment stabilisation, an anti-ball plugging mesh on golf driving ranges and as a support mesh under rubber matting.

For best results, TR-Flex™ should be installed when the grass will grow quickly through the filaments creating a

root mass. The protected area will soon resume its natural green appearance protecting the grass roots and soil from damage. TR-Flex™ is ideally suited for areas which will have little vehicular traffic and moderate pedestrian use, however, we would strongly advise that the ground should be reasonably firm and well drained before installation.

**FEATURES**

- Rot resistant
- Chemically inert
- 100% Recyclable Material
- SUDS Compliant
- Easy to Install (No special skills required)

**APPLICATIONS**

- Occasional Vehicle Access
- Lawn Reinforcement
- Cycle Paths
- Prevents animals digging up lawn areas
- Slope Stabilisation
- Suitable for Golf Buggy Tracks
- Anti Ball Plugging Mesh - Driving Ranges
- Golf Course Pathways
- Support for Rubber Matting

CODE	DESCRIPTION	SIZE	WEIGHT g/m <sup>2</sup>	FORMAT
3A163217	TR-FLEX - 450GR (BLACK)	2m x 30m	450g	Reel
3A163218	TR-FLEX - 450GR (GREEN)	2m x 30m	450g	Reel
3A163364	TR-FLEX - 450GR (GREEN)	2m x 10m	450g	Reel
3A163365	TR-FLEX - 450GR (GREEN)	1m x 10m	450g	Reel
3A163366	TR-FLEX -640GR (GREEN)	2m x 30m	640g	Reel
3A163368	TR-FLEX -640GR (GREEN)	1m x 10m	640g	Reel
3A163367	TR-FLEX -640GR (GREEN)	2m x10m	640g	Reel

# Grass Reinforcement Accessories



CODE	DESCRIPTION	SIZE	WEIGHT KG	FORMAT
3A100017	U-Pins	QTY 25	1.7kg	Bag
3A100013	U-Pins	QTY 100	7kg	Bag
3A021069	J-Pins	QTY 100	7kg	Bag
3A032242	Parking Markers	QTY 100	4kg	Box

## GP-Flex<sup>TM</sup> and TR-Flex<sup>TM</sup> installation

For best results the GP-Flex<sup>®</sup> and TR-Flex<sup>™</sup> should be laid down in early spring through to late summer when the grass will grow quickly through the mesh and the root mass will form an interlock with the mesh filaments. The protected area will soon resume its natural appearance providing a stable surface and protecting the area from damage and rutting by vehicles and pedestrians.

### INSTALLATION

Cut the grass to a minimal length and ensure that the area is as level as possible by filling in any hollows with fine topsoil and sharp sand.

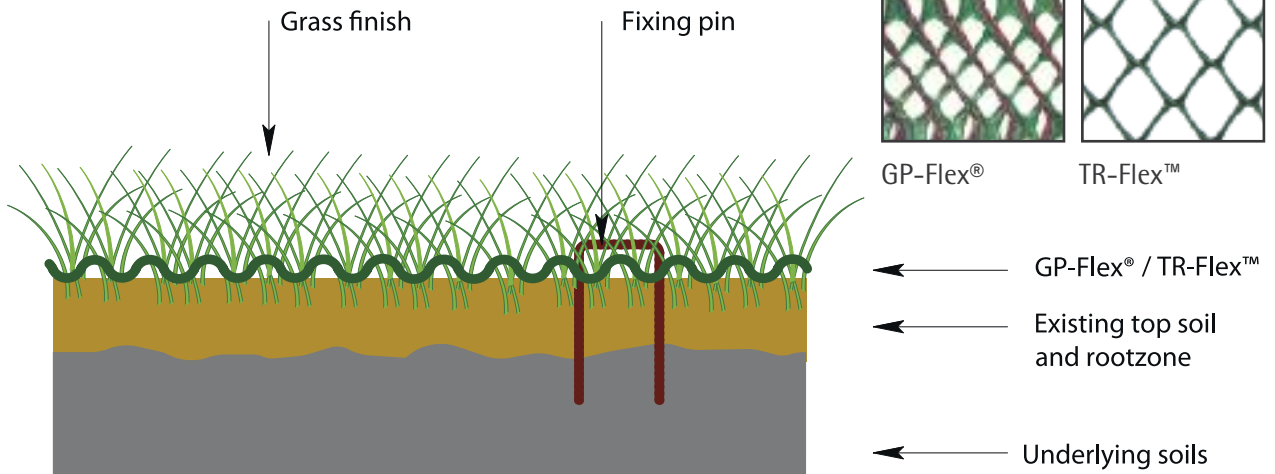
If the mesh is being laid over clay soil, it is recommended that a suitable drainage system be installed to allow for the drainage of surface water. Unroll the mesh over the area to be protected and secure both ends with metal fixing pins and down each side at least every 1m. Where a wide area is to be protected, butt the edges of the roll together and secure by placing metal fixing pins down each length and across each layer. Also pin down any area where the mesh is not in contact with the ground. Cover the mesh with a layer of topsoil and sharp sand, this will encourage early root

growth around the mesh filaments and increase stability. Apply a suitable grass seed dressing at approximately 30g/m<sup>2</sup> over areas which were previously bare of grass or which received more than 25mm covering of topsoil and sand.

Vehicles and pedestrians should be kept off the area until the grass has grown at least 25mm and has been mown twice with the blades set high. Following which the area can be rolled and treated with proprietary chemicals as required.

### WARNING

Although we have produced the most slip resistant grass protection mesh available, we can not account for all the variances in climatic and ground conditions. Please take note that until the grass has grown through the mesh and become established, GP-Flex<sup>®</sup> and TR-Flex<sup>™</sup> may be slippery in wet weather or under icy conditions and care should be taken if pedestrians are allowed to walk on the mesh during the growing period.



For further assistance or advice on installing GP-Flex<sup>®</sup> and TR-Flex<sup>™</sup>, contact MESH4 on 01978 807345





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# TrackGuard®

MESH4 TrackGuard® is a tough re-usable extruded mesh panel which is designed to protect grassed areas from damage by heavy vehicles. Ideally suited for providing access to construction sites, TrackGuard® has a high profile providing extra grip for both wheeled and tracked vehicles. Weighing less than 10kg per panel they can support vehicle weights up to 20 tonnes dependent on ground conditions.

To install simply lay panel down and secure with fixing pins. It can be either used for temporary protection or if left in position the grass will grow through the mesh providing a stable and green environment. This product can also be used in farm and field gateways. Secure TrackGuard® to the ground with 6mm fixing pins, you will require approximately 12 pins per panel.

### FEATURES

- HDPE (High Density Polyethylene)
- Mesh size - 25mm x 25mm
- 100% Recyclable Material
- SUDS Compliant
- 25mm Thickness
- Withstand Loads of 20 Tonnes

### APPLICATIONS

- Building Site Access
- Farm/Field Gateways
- Suitable for Heavy Wheel/Tracked Vehicles

CODE	DESCRIPTION	SIZE	WEIGHT KG	FORMAT
1A060275	TRACKGUARD® Black	2.05m x 1.2m	10kg	Panel



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## GrassTrack®

GrassTrack® is a heavy duty mesh with a non-woven Geotextile bonded to it. It has a dual purpose of providing a temporary pathway for either pedestrian access or roadways. MESH4 GrassTrack® is simple to install, just lay directly onto grass with the mesh side up to accommodate vehicular traffic i.e. cars and vans. Alternatively, lay with

the geotextile side uppermost to accommodate pedestrian traffic. Ideal for all outdoor events such as shows and concerts, marquee flooring and temporary pedestrian use over muddy areas. GrassTrack® can be easily stored and re-used time and time again.

### FEATURES

- Heavy Duty Plastic Mesh with Geotextile Bonded to the mesh
- Up to 8 Tonnes weight bearing limit
- Easy to Install (No special skills required)

### APPLICATIONS

- Temporary or Permanent Access for Vehicles and Pedestrians
- Suitable for Outdoor Events over muddy areas
- Internal Marquee use
- Concert Events

CODE	DESCRIPTION	SIZE	WEIGHT g/m <sup>2</sup>	FORMAT
1A160221	GRASSTRACK® (Green)	1.9m x 20m	1800g	Reel







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## GridLok® Elite

GridLok® Elite is manufactured from 100% recycled polypropylene to form an interlocking permeable paving system which can be filled with gravel or grass. It can be used as part of a sustainable urban drainage system and doesn't require planning permission.

GridLok® Elite can withstand constant pedestrian traffic and vehicular traffic of up to 40 tonnes per square metre making it more than capable of handling virtually all domestic applications. It is quick and easy to install and won't crack or rot.

### FEATURES

- SUDS Compliant
- Easy to Install (No special skills required)
- Chemically Inert
- Rot resistant
- Suitable to support commercial vehicles

### APPLICATIONS

- Car Parking Areas
- Private Roads and Access Roads
- Pathways and Driveways
- Emergency Access Routes
- Helicopter Landing Pad
- Shed Bases

CODE	DESCRIPTION	SIZE	WEIGHT KG	FORMAT
3A122001	GRIDLOK ELITE (Green)	500mm x 500mm	1.5kg	Panel





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## GridLok<sup>®</sup> Excel

The Gridlok Excel pavers are all SUDs compliant (Sustainable Urban Drainage Systems) and do not require planning permission for applications such as car parks, overflow parking, access roads, pathways, golf buggy paths, light aircraft taxiways, cycle paths, etc.

The product can withstand loads of 300 tonnes per square metre, and each paver is 475mm x 475mm (4.4 pavers per square metre) and 39mm in depth. The Gridlok Excel Porous paver is manufactured from 100% recycled polypropylene/polyethylene, and is suitable for grass reinforcement or gravel retention applications.

The paver will self-stabilise over a period of time due to the injection moulded studs at the base of the paver. This will also prevent any lateral movement over time.

Because of the open nature of the cellular structure of the pavers, grass roots allow water and nutrients to drain easily and form good root growth if the intended application is to have a finished natural looking grass structure.

### FEATURES

- SUDS Compliant
- Easy to Install (No special skills required)
- Chemically Inert
- Rot resistant
- Suitable to support commercial vehicles

### APPLICATIONS

- Car parks, Overflow car parks
- Access roads, Emergency access routes
- Golf buggy paths, Cycle paths/Bike tracks
- Light aircraft taxiways
- Grass or gravel driveways
- Truck bays
- Caravan/Static van base

CODE	DESCRIPTION	SIZE	WEIGHT KG	FORMAT
3A173708	Gridlok Excel (Green)	475mm x 475mm	1.05kg	Panels

# Porous Paver Installation

## Gridlok®

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Paver installation - in all cases, before installing MESH4 porous pavers you should first determine the ground conditions over which the paver is to be installed. Ideally, you should consult with a specialist to provide a CBR (Californian Bearing Ratio) test. The CBR result will give an indication of the required sub base.

During construction, care of the ground to be infiltrated should be taken. The fines content of the sub base should be controlled, so where possible, store the stone off site and construct the porous surfaces as late in the project as possible to prevent clogging and compaction. The sub base should be DOT type 3 and construction should be in accordance with BS 7533: Part 3: 1997 Code of Practice for laying pre cast concrete paving blocks and clay pavers for flexible pavements.

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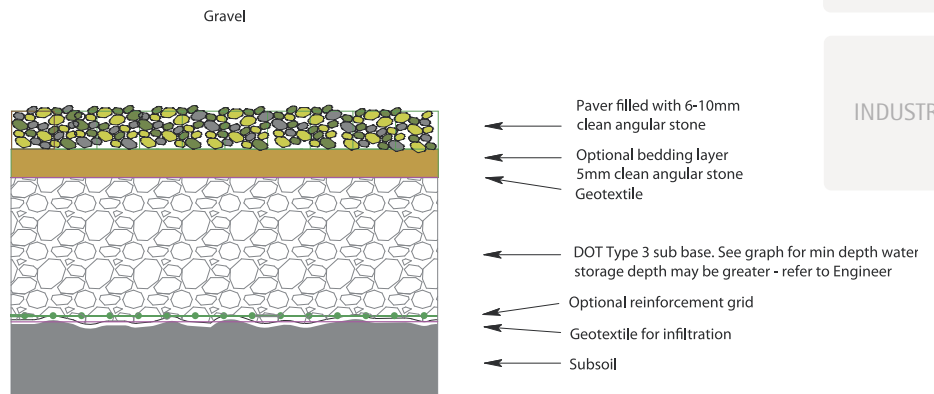
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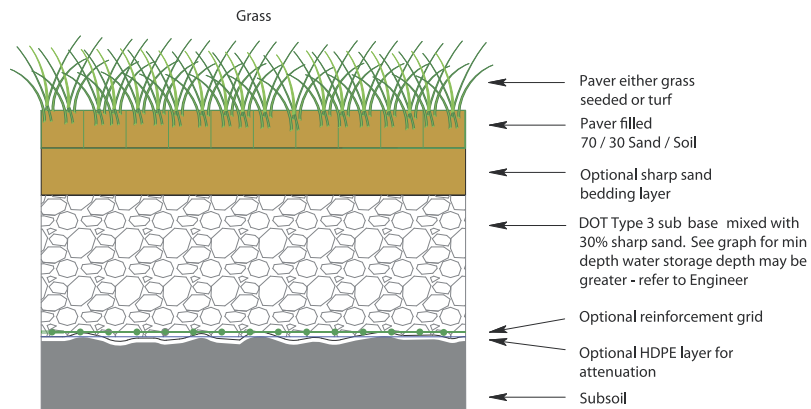
### For gravel finishes

A geotextile should be laid over the sub base below the pavers, to prevent the cross contamination of the gravel. Once placed on the geotextile, the pavers should be filled using a 6/10mm clean angular gravel. Once filled, the pavement can be used immediately.



### For grass finishes

The sub base should be mixed with 30% sharp sand. Once the pavers are placed on the sub base, they should then be filled with a mix of 70% sharp sand with 30% soil and seeded with grass seed. Once seeded, the pavement should be left un-trafficked to allow for the grass to establish. Alternatively, turf can be laid directly on top of the filled pavers. Once the turf has been laid, it will need to be rolled and left for at least two mowing cycles to allow for the roots to establish.



\*Note: the depth of sub base may be reduced by including a ground stabilising mesh geogrid.

Contact our ground reinforcement team on 01978 807345 for further information.

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## Rubber Matting

Rubber matting is an environmentally friendly non-slip, impact absorbing surface manufactured from recycled rubber. Rubber matting is simple to install, just lay onto the ground and secure with fixing pegs. The grass will grow through rubber matting providing a stable and

durable surface. Ideal for play areas, walkways which have become slippery, wheelchair access, anti-fatigue mats, wash down and wet areas. It can be used on flat or undulating well drained ground.

### FEATURES

- Critical Fall Height Certified
- Ring structure allows grass to grow through the mat
- Non Slip Matting
- Produced From 100% Recycled Rubber Products
- Easy to Install (No special skills required)

### APPLICATIONS

- Parks and Garden Areas
- Playgrounds
- Bridge Decks
- General Ground Reinforcement
- Schools

CODE	DESCRIPTION	SIZE	WEIGHT KG	FORMAT
3A053015	Standard - Black	1m x 1.5m	10kg	Mats
3A042502	Premium - Black	1m x 1.5m	15kg	Mats





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# Geogrids LBO

GSM Geogrids are manufactured from polypropylene and are designed for soil stabilisation and reinforcement applications. They are produced using a unique process of extrusion and biaxial orientation to enhance their tensile properties.

GSM's effectively confine and stabilise aggregate within its apertures, thus reducing lateral displacement which in turn helps to distribute loads more effectively

- FEATURES**
- Reduction of structural Fill
  - Evens out Load Distribution
  - Subgrade Stabilisation
  - Higher Load Bearing

- APPLICATIONS**
- Roadway Construction
  - Base Reinforcement
  - Reinforcement for Site Access Routes
  - Soil Reinforcement of Building Foundations

CODE	DESCRIPTION	SIZE	WEIGHT g/m <sup>2</sup>	FORMAT
1A129007	LBO X3 - Black	4m x 75m	350g	Reel
1A110036	LBO X4 - Black	4m x 50m	350g	Reel



## GeoGrids with Bonded Textile

GT is a polypropylene (PP) geocomposite designed specifically for the stabilisation of soils where both a reinforcing action as well as the separation between a granular base and very fine soil is required. Laminating a non woven geotextile to a geogrid produces the GT geocomposite.

GT has both a high tensile strength and modulus of elasticity, exceptional construction damage resistance during installation, and excellent resistance to atmospheric agents. Furthermore, the geometry of the GT geocomposite permits a strong interaction with the soil being reinforced, complete separation of the different soil types, and an effective filtering action.

### FEATURES

- Strong mechanical Interlock with subbase
- Geotextile layer adds a separation and filtration function
- Increased tensile strength of soil

### APPLICATIONS

- Road Construction
- Airport Runway Construction
- Carpark Base Applications

CODE	DESCRIPTION	SIZE	WEIGHT g/m <sup>2</sup>	FORMAT
1A120218	GT/220 (Black with white geotextile)	4m x 50m	410g	Reel
1A110601	GT/330 (Black with white geotextile)	4m x 50m	560g	Reel



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# Multimat

MESH4 MultiMat is designed to prevent wash out and soil erosion on slopes and embankments, to aid the establishment of grass and plant roots. Weather conditions, such as heavy rain, can result in significant loss of soil and formation of moderately deep furrows. All of this occurs due to the barrenness and fragility of the vegetation during its initial phase of growth because the root systems have had insufficient time to become established in substrate.

MESH4 Multimat 30 and 100 erosion control geomats are three-dimensional structures, manufactured from three polypropylene meshes that have been extruded and

subsequently oriented. The products have a high tensile strength and low unit weight which makes the geomats ideally suited for installing on steep and very long slopes.

MESH4 Multimat is easy to install. Simply roll MESH4 Multimat onto the slope, fix in place with fixing staples and cover with topsoil. Grass growth can then be established either by hand seeding or hydro-seeding. Once installed the three-dimensional structures of the geomats protect the layer of topsoil and anchor the roots of the vegetation to the soil matrix, thus helping to minimise both the effect of rain impact and soil migration due to surface runoff.

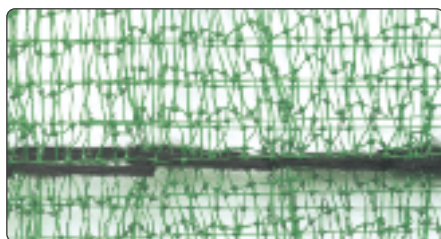
## FEATURES

- Prevents wash out and soil erosion
- Following installation, fill out with topsoil and hydroseed
- The Multimat 3 layer structure allows the topsoil to reach the undersoil, and for vegetation to quickly become established
- The Multimat will follow any contours within the ground

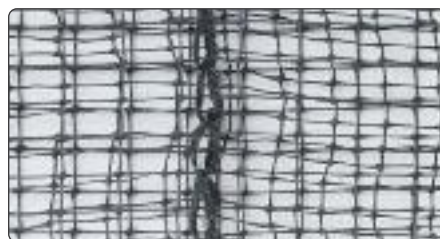
## APPLICATIONS

- Slope & Embankment Stabilisation
- Reservoir Embankments
- Grassed Spillways
- Landfill Capping
- Motorway/Railway Cuttings

CODE	DESCRIPTION	SIZE	WEIGHT g/m <sup>2</sup>	FORMAT
1A040237	MULTIMAT 30 (Green)	2.2m x 50m	180g	Reel
1A180091	MULTIMAT 100 (Black)	3.85m x 30m	320g	Reel



MULTIMAT 30



MULTIMAT 100



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## Tenweb

The ground on slopes is often dry and rocky due to lack of organic material. Under these conditions, it is necessary for an adequate depth of soil to be provided to allow for growth of vegetation. Since topsoil has poor mechanical properties, it can easily slide down the slope and get washed away by heavy rainfall before vegetation has become established.

TenWeb geocells are honeycomb shaped structures manufactured by continuous extrusion of polyethylene without welding. The structure expands and therefore, can be stored and transported with minimal space. When

opened out during installation, a series of completely interconnecting ovoid cells is created. Once expanded to its maximum extension and filled with light compacted soil or fine aggregate, a means of confinement for unconsolidated materials is created within the cells preventing their movement even on steep slopes. If required, the area can then be seeded to achieve a green environment.

The junctions of TenWeb have a central opening through which water can permeate ensuring that organic material receives moisture for rapid growth.

### FEATURES

- Manufactured to ISO 9001 Standards
- 3 Dimensional Cellular Confinement System
- Available in 35 Metre or 50 Metre Squared Panels
- Can also be seeded after installation to provide a natural grassed area.

### APPLICATIONS

- Paths and Roadway Construction
- Slope Protection
- Domestic Drives and Pathways
- Roadway Verges can be protected against erosion
- Tree Root Protection

CODE	DESCRIPTION	SIZE	WEIGHT g/m <sup>2</sup>	FORMAT
81205050	TENWEB 4/200 Kg 56.25 Green)	3.5m x 10m	1.6kg	cell panel
81304150	TENWEB 4/300 Kg 56.25 (Green)	5m x 10m	1.125kg	cell panel

# Sustainable Urban Drainage Systems (SUDS)

On-going development has caused damage to the environment through a non-sustainable approach to the management of storm water leading to the following problems:

**Quantity** – Accelerated runoff rates, increased flows leading to flooding. Reduction in recharge to aquifer and groundwater levels.

**Quality** – Increased runoff volumes and velocities preventing natural cleansing processes and increasing pollution risk.

**Amenity** – Traditional positive drainage solutions can have a negative impact on the wildlife habitat and offer no amenity value.

As a consequence, the recent European Water Framework Directive requires that we must manage our water resources in a more sustainable way and provide an enhanced level of protection to water quality. When dealing with storm water, source control is the preferred option i.e. dealing with precipitation where it hits the ground, thus replicating the natural process. By treating the storm water at source, we are also able to take advantage of the natural process for dealing with the removal and break down of pollutants from surface water runoff, thus providing an opportunity to improve wildlife habitats and create attractive amenity features.

MESH4 can offer technical advice for your specific project, whilst providing you with quality assured products to suit your individual needs.

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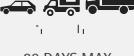



# Product selector ground reinforcement

Selecting the right product for your project will be determined by several factors, the type of loading expected, the frequency of use and the strength of the in situ soils. When assessing the loading frequency note that the entrances, exits and any access roads undergo significantly increased loading frequency compared to the parking bays, if in doubt please speak to MESH4.

LOADING FREQUENCY PEDESTRIAN	CRITERIA	TENAX PRODUCT
 Emergency access SINGLE USE	Single day use, no more than once a year	CBR 4 + GP-FLEX® 1000
 Low footfall occasional use 20 DAYS MAX	Low footfall traffic single day used no more than 20 days per year*	CBR 6 + GP-FLEX® 1000
 High footfall occasional use 20 DAYS MAX	High footfall traffic single day use no more than 20 days per year*	CBR 6 + GP-FLEX® 1400
 Intensive occasional use CONSECUTIVE USE	High footfall traffic used for up to 7 consecutive days once a year or for use up to two consecutive days on a weekly basis	CBR 6 + GP-FLEX® 1400
 Permanent use PERMANENT USAGE	Medium footfall traffic used on a daily basis	CBR 6 + GP-FLEX® 1800

 PEDESTRIAN & WHEELCHAIR USE

\* At least 5 days should be provided between loading cycles

LOADING FREQUENCY VEHICULAR	CRITERIA	TENAX PRODUCT
 Emergency access SINGLE USE	Single day use, no more than once a year	CBR 4 + GP-FLEX® 1400 CBR - 4 POROUS PAVER
 Low number occasional use 20 DAYS MAX	Single day use 100 vehicle movements per day no more than 20 days per year*	CBR 6 + GP-FLEX® 1400 CBR - 6 POROUS PAVER
 High number occasional use 20 DAYS MAX	Single use 1000 vehicle movements per day no more than 20 days per year*	CBR 8 + GP-FLEX® 1800 CBR - 8 POROUS PAVER
 Intensively trafficked occasional use CONSECUTIVE USE	500 vehicle movements per day for up to 7 consecutive days twice per year** or up to 2 consecutive days on a weekly basis	CBR 8 + GP-FLEX® 1800 CBR - 8 POROUS PAVER
 Permanent use PERMANENT USAGE	100 vehicle movements per day	CBR 1 + POROUS PAVER

 CARS & 4X4's  LIGHT COMMERCIAL VANS, CARAVANS, BOATS  HGV's & FIRE TRUCK ACCESS

\* At least 8 days should be provided between loading cycles between April -October

\*\* At Least 30 Days should be provided between loading cycles between April -October



CBR is the Californian Bearing Ratio test usually performed by an engineer to determine the strength of the ground. To assist in this determination, the table below shows field observation details, given in BS 5930, to help determine the expected strengths of the in situ soils. Please note that the figures given refer to the underlying soil below the root zone and not the top soil.

SOIL STRENGTH DESCRIPTION	IN SITU MANUAL TEST	ESTIMATED SHEAR STRENGTH (kN/m <sup>2</sup> )	EQUIVALENT CBR(%)
VERY SOFT	Finger easily pushed in up to 25mm.	0-20	<1
SOFT	Finger pushed in up to 10mm.	20-40	1 - 1.5
FIRM	Thumb makes impression easily.	40-75	1.5 - 6
STIFF	Can be indented slightly by thumb	75-150	3 - 6
VERY STIFF	Can only be scratched by thumbnail	150-300	12 - 6

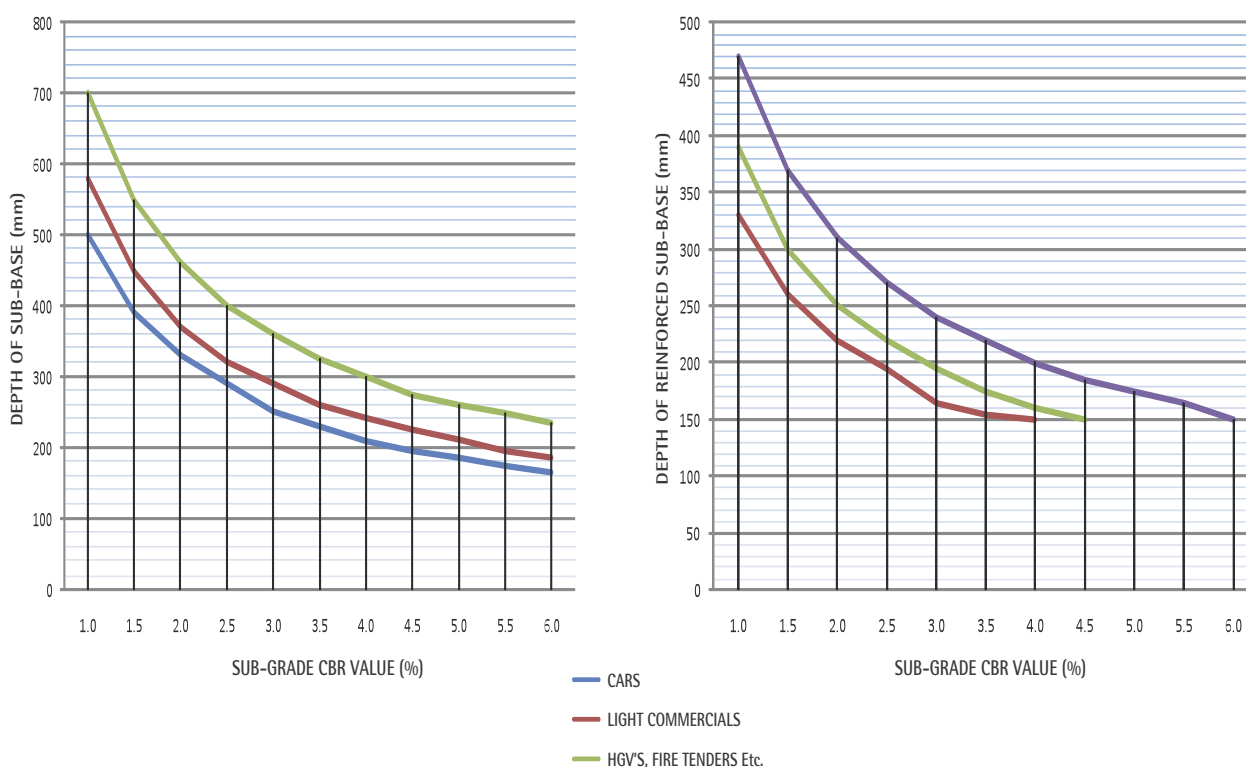
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As an added complication, the drainage characteristic of the existing soils can exert as great an influence as the underlying soils. MESH4 recommend that the drainage of the soils be considered from the outset. Where porous pavers are to be used, a sub base will need to be installed before the placement of the pavers in order to reinforce the ground and help with the drainage. The graphs below give an indication of the depth of sub base required relating to the strength (CBR) of the existing ground.



The above information is given in good faith and as a guide only, in all cases, MESH4 advise that the services of a qualified geotechnical engineer, with the relevant experience, be sought before work commences.

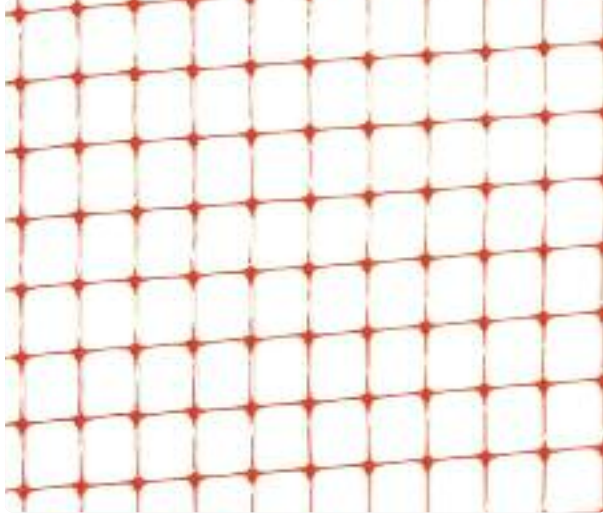
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## Contamination Net

Plurima is a strong, flexible, highly visible orange mesh designed for the identification of contaminated or slightly hazardous soil beneath construction sites or on land

remediation works. Its 4m width makes it a cost effective alternative to Signal where pipe identification is not needed.

### FEATURES

- Rot proof and chemically inert
- Easy to Install
- Cost Effective
- Highly visible

### APPLICATIONS

- Soil Contamination Net

CODE	DESCRIPTION	SIZE	WEIGHT g/m <sup>2</sup>	FORMAT
69000254	PLURIMA - Orange (Soil Contamination net)	4m x 62.5m	35g	Reel



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# Damp Proof Membrane

Damp proof membrane is an extruded low density polythene film, that is extremely tough and durable. Applications such as - over-site membrane, can be used between a blinded hard core bed and the base concrete.

Produced to building regulations standards and to PIFA tolerances.

### FEATURES

- Manufactured to Building Regulation standards and PIFA tolerances
- Tough 1200 Gauge thick film
- High Tensile strength
- Chemically stable
- Joins and seals easily

### APPLICATIONS

- DPM that prevents moisture transmission
- Oversite membrane that is used between hardcore and base concrete
- Can prevent blistering and debonding of resin floors
- Can also be used as an aid to pre-existing damp problems
- Temporary protective floor covering
- Interim window and door replacement material
- Transit Packaging

CODE	DESCRIPTION	SIZE	THICKNESS	FORMAT
3A180001	Damp Proof Membrane (Blue)	4m x 25m	300micron	Reel





## Ground Cover (Woven Geotextile)

MESH4 ground cover is manufactured from UV stabilised black woven polypropylene. Tough and tear resistant, it effectively controls annual and perennial weeds. It is ideal for use under patios, block paving and gravel paths.

### FEATURES

- UV stabilised
- Multifunctional
- High tensile and puncture resistant
- Variety of sizes to suit both building site and domestic applications
- Allows air and water to permeate
- Prevents aggregates from migrating into the subsoil base

### APPLICATIONS

- Weed suppression membrane for domestic and commercial projects
- Ground stabilisation and some drainage applications
- Weed barrier under Artificial Grass
- Covers temporary muddy areas and outdoor staged events
- Under decking projects to prevent weed growth
- Under Paved Patios
- Nursery Poly Tunnel Applications

CODE	DESCRIPTION	SIZE	WEIGHT g/m <sup>2</sup>	FORMAT
19720001	Ground cover (Black - Green Lines running through)	1m x 50m	100g	Reel
73050109	Ground cover (Black - Green Lines running through)	1m x 100m	100g	Reel
19720003	Ground cover (Black - Green Lines running through)	1.5m x 50m	100g	Reel
20010801	Ground cover (Black - Green Lines running through)	1.5m x 100m	100g	Reel
20010803	Ground cover (Black - Green Lines running through)	2m x 50m	100g	Reel
73050209	Ground cover (Black - Green Lines running through)	2m x 100m	100g	Reel
3A122186	Ground cover (Black - Green Lines running through)	4m (Folded) x 100m	100g	Reel
3A122191	Ground cover (Black - Green Lines running through)	5m (Folded) x 50m	100g	Reel



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## Non-Woven Geo-textile (White)

Mesh 4 woven geotextiles are permeable nonwoven fabrics that are used in a number of construction applications.

### FEATURES

- Needle punched and Thermally Bonded
- Designed to Reduce the amount of Sub Base
- Aids Filtration and Separation
- High Tensile and Puncture Resistance Strength

### APPLICATIONS

- Ground Stabilisation for Road Construction & Civil Engineering projects
- Carpark Construction
- Sports Grounds
- Horse Ménages - Under Dressing & Ground Stabilisation
- Under Porous Paver applications

CODE	DESCRIPTION	SIZE	WEIGHT g/m <sup>2</sup>	FORMAT
3A152929	Non-Woven Geo-textile (White)	4.5m x 100m	110g	Reel



## Weed Control Fabric (Non-Woven)

MESH4 ground cover is manufactured from UV stabilised black woven polypropylene. Tough and tear resistant, it effectively controls annual and perennial weeds. It is ideal for use under patios, block paving and gravel paths.

### FEATURES

- Contributes to low maintenance gardening
- Allows air and water to permeate into the subsoil
- Manufactured in a Variety of Sizes to suit different applications
- Prevents aggregates from migrating into the subsoil base

### APPLICATIONS

- General Weed Suppression Material
- Can be used on Flower Beds, under Decking Applications
- Fruit and flower beds, Scree Gardens
- Aggregate Driveways and Paths
- Block Paving Areas
- Nursery Poly Tunnel Applications

CODE	DESCRIPTION	SIZE	WEIGHT g/m <sup>2</sup>	FORMAT
19722002	Weed Control Fabric (Black)	1.5m x 100m	50g	Reel
19722003	Weed Control Fabric (Black)	2m x 100m	50g	Reel
19991204	Weed Control Fabric (Black)	1m x 100m	60g	Reel
20000101	Weed Control Fabric (Black)	2m x 100m	60g	Reel



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## Multi-Purpose Nets (Cintoflex & C-Flex)

Unique to MESH4, these nets have a high tensile strength and can be manufactured in widths up to 4.6m. Available in four mesh sizes, they are rot proof, chemical resistant

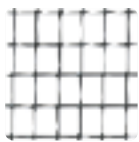
and UV stabilised. They are easy to install requiring little support and can be erected to heights in excess of 25m.

### FEATURES

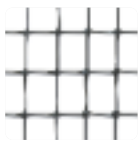
- High Tensile Strength
- UV stabilised
- Rot proof and Chemical Resistant
- Easy to Install
- Cost Effective Solution

### APPLICATIONS

- Deer Fencing
- Aviary netting
- Fruit cage nets,
- Ball stop nets
- Sports ground perimeter netting
- Golf Courses



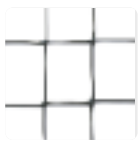
CINTOFLEX E



CINTOFLEX M



CINTOFLEX D



C-FLEX



FRUIT CAGE

CODE	DESCRIPTION	SIZE	WEIGHT g/m <sup>2</sup>	FORMAT
60031409	Cintoflex E Black Mesh size: 14 x 12mm	1.0m x 100m	70g	Reel
60032409	Cintoflex E Black Mesh size: 14 x 12mm	2.0m x 100m	70g	Reel
60038409	Cintoflex E Black Mesh size: 14 x 12mm	4m x 100m	70g	Reel
60040409	Cintoflex M Black Mesh size: 24 x 17mm	1.0m x 100m	70g	Reel
60045409	Cintoflex M Black Mesh size: 24 x 17mm	1.5m x 100m	70g	Reel
60050409	Cintoflex M Black Mesh size: 24 x 17mm	2.0m x 100m	70g	Reel
60065409	Cintoflex M Black Mesh size: 24 x 17mm	4.6m x 100m	70g	Reel
60010409	Cintoflex D Black Mesh size: 35 x 22mm	1.0m x 100m	70g	Reel
60015409	Cintoflex D Black Mesh size: 35 x 22mm	1.5m x 100m	70g	Reel
60020409	Cintoflex D Black Mesh size: 35 x 22mm	2.0m x 100m	70g	Reel
60025409	Cintoflex D Black Mesh size: 35 x 22mm	3.0m x 100m	70g	Reel
60030409	Cintoflex D Black Mesh size: 35 x 22mm	4.6m x 100m	70g	Reel
60090409	C-Flex Black Mesh size: 50 x 45mm	1.0m x 100m	80g	Reel
60095409	C-Flex Black Mesh size: 50 x 45mm	1.5m x 100m	80g	Reel
60097409	C-Flex Black Mesh size: 50 x 45mm	1.8m x 100m	80g	Reel
60098409	C-Flex Black Mesh size: 50 x 45mm	2.3m x 100m	80g	Reel
60099409	C-Flex Black Mesh size: 50 x 45mm	3.0m x 100m	80g	Reel
60150409	C-Flex Black Mesh size: 50 x 45mm	4.6m x 100m	80g	Reel
3A180002	Fruit Cage Net 60g Black Mesh size: 17 x 17mm	1m x 100m	60g	Reel
3A180003	Fruit Cage Net 60g Black Mesh size: 17 x 17mm	2m x 100m	60g	Reel



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## Sterling Fence

Sterling fencing is a high strength, yet lightweight, heavy duty plastic alternative to galvanised chain link and welded mesh fencing, but unlike metal counterparts it will not rust, corrode or disrupt magnetic fields. Manufactured from polypropylene it is UV stabilised, chemical resistant

and will retain its appearance for many years with little or no maintenance. Because of the built in memory of polymer structures, Sterling fence will quickly resume its natural shape if knocked or crushed.

### FEATURES

- UV Stabilised
- High Tensile Strength
- Manufactured in various widths up to 4 metres in height
- Rot Proof & Chemical Inert
- Maintenance Free

### APPLICATIONS

- Replica Metal Fence Applications
- Airport Fences (No interference for electrical or radar signals)
- Sports Court Fences

CODE	DESCRIPTION	SIZE	WEIGHT g/m <sup>2</sup>	FORMAT
60910252	Millenium Fencing (Silver) Mesh size: 44 x 33mm	1m x 50m	200g	Reel
1A130229	Millenium Fencing (Silver) Mesh size: 44 x 33mm	1 m x 25 m	200g	Reel
1A130235	Millenium Fencing (Silver) Mesh size: 44 x 33mm	1.5 m x 25 m	200g	Reel
60920252	Millenium Fencing (Silver) Mesh size: 44 x 33mm	2m x 50m	200g	Reel
60940252	Millenium Fencing (Silver) Mesh size: 44 x 33mm	4m x 50m	200g	Reel
1A150010	Millenium Fencing (Anthracite) Mesh size: 44 x 33mm	1m x 25m	200g	Reel
1A150011	Millenium Fencing (Anthracite) Mesh size: 44 x 33mm	1.5m x 25m	200g	Reel
1A130469	Millenium Fencing (Green) Mesh size: 44 x 33mm	1m x 25m	200g	Reel
1A130468	Millenium Fencing (Green) Mesh size: 44 x 33mm	1.2m x 25m	200g	Reel
1A150008	Millenium Fencing (Green) Mesh size: 44 x 33mm	1.5m x 25m	200g	Reel



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## Barrier Warning Fence

The highly visible appearance together with the ease of installation makes this product range ideal for use as a temporary safety warning fence around construction sites and building projects.

Manufactured from HDPE in various weights and grades it is easily installed using fencing support stakes. Rot proof, UV stabilised and chemical resistant it can easily be re-rolled and transported for further use.

### FEATURES

- UV Stabilised
- Manufactured up to 450 Grams per square for a long lasting semi-permanent fence
- High Tensile Strength
- Excellent long lasting colour fastness
- Superb durability, can be re-used from site to site
- No billowing, sail effect

### APPLICATIONS

- Roadworks
- Civil Engineering Projects
- Construction Sites
- Safety Barrier

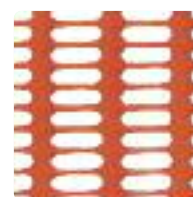
CODE	DESCRIPTION	SIZE	WEIGHT g/m <sup>2</sup>	FORMAT
1A100632	GRIFON Orange	1m x 50m	75g	Reel
1A100633	GRIFON Orange	1.2m x 50m	75g	Reel
82053004	AREA Orange	1m x 50m	180g	Reel
82054004	AREA Orange	1.2m x 50m	150g	Reel
82055004	AREA Orange	1.5 x 50m	150g	Reel
82056004	AREA Orange	1.8 x 50m	150g	Reel
90205004	Dragon Orange	1m x 50m	250g	Reel
90206004	Dragon Orange	1.2m x 50m	250g	Reel
90207524	Dragon Orange	1.5m x 50m	250g	Reel
90209004	Dragon Orange	1.8m x 50m	250g	Reel



GRIFON



AREA



DRAGON



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## Boundary Fence

This range of extruded fence and mesh products has many applications such as perimeter fencing, screening and plant support. Manufactured from UV stabilised HDPE,

they are rot-proof, chemical resistant, easy to install and a cost effective alternative to wire and chain link.

### FEATURES

- High Tensile strength
- UV Stabilised
- Green colour blends in with natural areas
- Manufactured in various widths up to 4metres in height
- Rot Proof & Chemical Inert
- Maintenance Free

### APPLICATIONS

- Horticultural and Agricultural fence applications
- Domestic Fences
- Perimeter Golf Fence
- External mesh on existing wooden fence or gate for animal enclosures

CODE	DESCRIPTION	SIZE	WEIGHT g/m <sup>2</sup>	FORMAT
93080806	Boundary Fence Ranch 1 - Green Mesh size: 40 x 25mm	1.0m x 50m	140g	Reel
93081506	Boundary Fence Ranch 2 - Green Mesh size: 40 x 25mm	1.5m x 50m	140g	Reel
93082006	Boundary Fence Ranch 3 - Green Mesh size: 40 x 25mm	2.0m x 50m	140g	Reel
93088006	Boundary Fence Ranch 4 - Green Mesh size: 40 x 25mm	4m x 50m	140g	Reel

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## Square Mesh

This range of extruded fence and mesh products has many applications such as perimeter fencing, screening and plant support. Manufactured from UV stabilised HDPE,

they are rot-proof, chemical resistant, easy to install and a cost effective alternative to wire and chain link.

### FEATURES

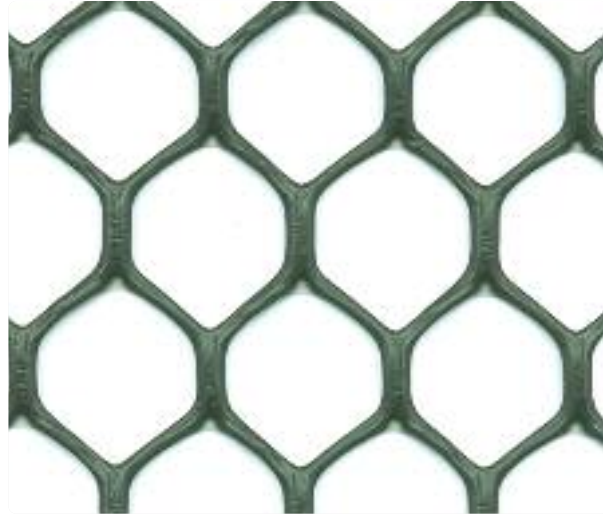
- UV Stabilised
- Cost effective in comparison to wire and chain-link products
- Excellent long lasting colour fastness
- Manufactured from HDPE (Non-toxic polymer)
- Rot proof

### APPLICATIONS

- Fence for Gardens or Vegetable patches
- Can be used as climbing plant support and crop protection
- Perimeter Fencing
- Pet enclosures

CODE	DESCRIPTION			SIZE	WEIGHT g/m <sup>2</sup>	FORMAT
62610308	Square Mesh 5	Green	Mesh size: 4 x 4mm	1m x 30m	270g	Reel
62610508	Square Mesh 5	Green	Mesh size: 4 x 4mm	1m x 50m	270g	Reel
62610501	Square Mesh 5	White	Mesh size: 4 x 4mm	1m x 50m	270g	Reel
62345308	Square Mesh 10	Green	Mesh size: 9 x 9mm	1m x 30m	270g	Reel
62345508	Square Mesh 10	Green	Mesh size: 9 x 9mm	1m x 50m	270g	Reel
62352507	Square Mesh 10	Green	Mesh size: 9 x 9mm	1.2 x 50m	270g	Reel
62451305	Square Mesh 10	Brown	Mesh size: 9 x 9mm	1m x 30m	270g	Reel
62345505	Square Mesh 10	Brown	Mesh size: 9 x 9mm	1m x 50m	270g	Reel
1A050287	Square Mesh 10	Anthracite	Mesh size: 9 x 9mm	1m x 30m	270g	Reel
62355101	Square Mesh 20	White	Mesh size: 20 x 20mm	1m x 50m	270g	Reel
62451307	Square Mesh 20	Green	Mesh size: 20 x 20mm	1m x 30m	270g	Reel
62351507	Square Mesh 20	Green	Mesh size: 20 x 20mm	1m x 50m	270g	Reel
62210305	Square Mesh 50	Brown	Mesh size: 45 x 45mm	1m x 30m	300g	Reel
62205308	Square Mesh 50	Green	Mesh size: 45 x 45mm	0.5m x 30m	300g	Reel
62210308	Square Mesh 50	Green	Mesh size: 45 x 45mm	1m x 30m	300g	Reel
1A140389	Eco Quadra	Dark Grey	Mesh size: 10 x 10mm	1m x 50m	270g	Reel
1A140231	Eco Quadra	Dark Grey	Mesh size: 10 x 10mm	1m x 10m	270g	Reel
1A140230	Eco Quadra	Dark Grey	Mesh size: 10 x 10mm	1m x 5m	270g	Reel





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## Chicken Mesh

Our poultry ground protection mesh is manufactured from a UV stabilised, rot proof and chemically inert high density polyethylene, ideal for use in areas where poultry are actively scratching and foraging in a free range environment. It offers protection against the destruction of grassed areas via soil erosion and root removal and

therefore allows for the preservation of an aesthetically pleasing environment.

The product is available in various sizes to cater for all applications and solutions.

### FEATURES

- Rot proof and chemically inert
- Manufactured from HDPE (Non-toxic polymer)
- Manufactured in a variety of widths and lengths to suit different applications
- Prevents 'dust bowl' effect
- Reinforced Edges

### APPLICATIONS

- Ideal for use where poultry are foraging and scratching through grassed environment
- Can also be used on an existing fence system

CODE	DESCRIPTION	SIZE	WEIGHT g/m <sup>2</sup>	FORMAT
1A100290	Chicken Mesh Green Mesh size: 20 x 19mm	1.5m x 200m	270g	Reel

## Multimesh

The Multimesh product is reinforced and smooth edges, UV treated and does not fade. It can be installed on balconies, fences, gates and as a vegetable patch fence system, as a protective mesh. The product is available in different widths.



CODE	DESCRIPTION	SIZE	WEIGHT g/m <sup>2</sup>	FORMAT
61005308	Multimesh Exagon Green Mesh size: 20 x 19mm	0.5m x 30m	270g	Reel
61010308	Multimesh Exagon Green Mesh size: 20 x 19mm	1m x 30m	270g	Reel
61410508	Multimesh Exagon Green Mesh size: 20 x 19mm	1m x 50m	270g	Reel
61412508	Multimesh Exagon Green Mesh size: 20 x 19mm	1.2m x 50m	270g	Reel
61010302	Multimesh Exagon Silver Mesh size: 20 x 19mm	1m x 30m	270g	Reel



1m Windbreak



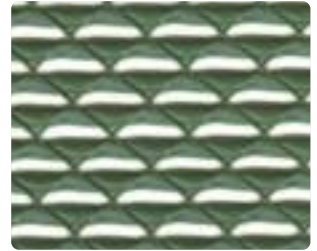
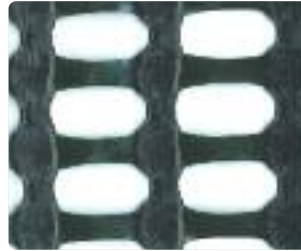
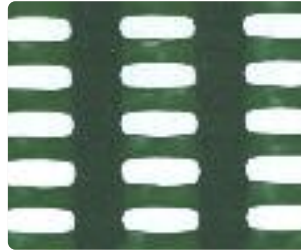
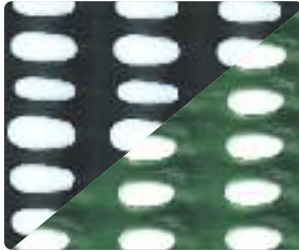
High Strength Windbreak



Super Strength Windbreak



Triplet Windbreak



## Windbreaks

### 1m Windbreak

Designed to reduce windspeed without creating turbulence, MESH4 windbreak provides cost effective protection where no natural shelter exists.

### High Strength Windbreak

In particularly exposed areas it is advisable to install a more robust windbreak in addition to closer post spacing. High strength windbreak has been designed with high tensile strength properties to withstand stronger winds.

### Super strength windbreak

With a tensile strength of 30kN/m this windbreak is one of the strongest available and will provide protection against gale force winds. Manufactured in 1m widths, it can be erected in successive layers for a high level windbreak.

### Triplet Windbreak

Triplet windbreak has a unique style with regards to its decorative effect and its original structure. It mitigates the effect of the wind on balconies and terraces while keeping its decorative function.

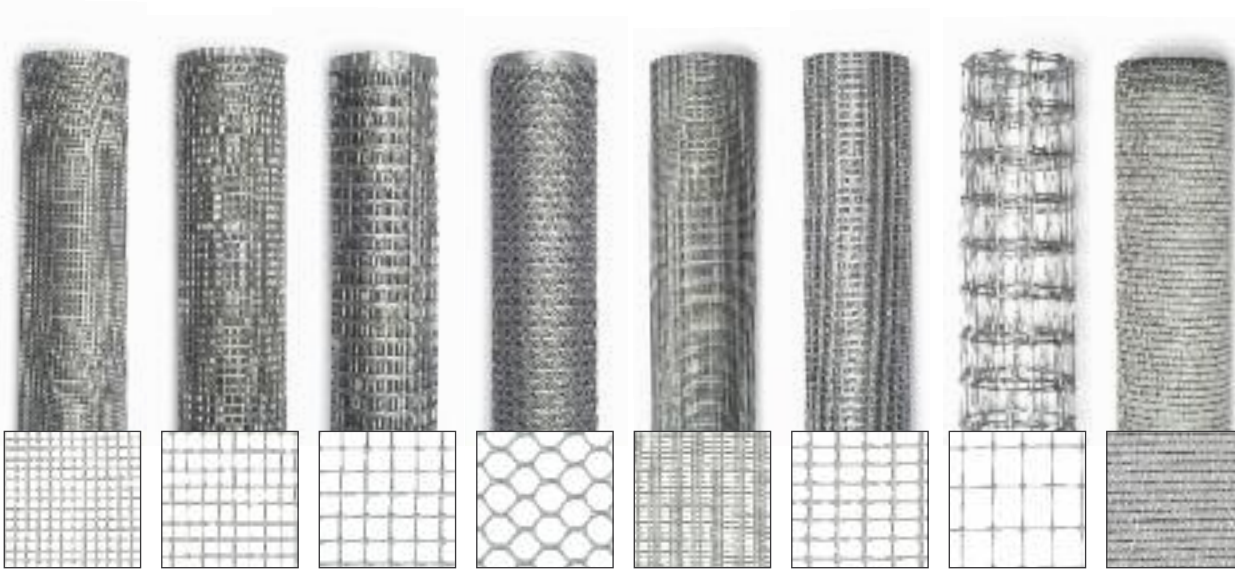
#### FEATURES

- Optimum protection from destructive winds, rain and snow
- Prevents up to 55% wind reduction
- UV stabilised
- Reinforced Edges
- Quick and Easy to install

#### APPLICATIONS

- Plant and crop protection
- Cattle and lamb polytunnel side air vent solutions
- A coastal solution to prevent sand accumulating
- Can also be used on an existing fence system

CODE	DESCRIPTION				SIZE	WEIGHT g/m <sup>2</sup>	FORMAT
59125508	1m Windbreak	Dark Green	Mesh Size: 12 x 5mm	5KN/m	1m x 50m	360g	Reel
59125509	1m Windbreak	Black	Mesh Size: 12 x 5mm	5KN/m	1m x 50m	360g	Reel
20010604	Windbreak Dark	Green	Mesh Size: 12 x 5mm	5KN/m	1m x 10m	360g	Reel
20010602	Windbreak	Black	Mesh Size: 12 x 5mm	5KN/m	1m x 10m	360g	Reel
3A032008	Windbreak Dark	Green	Mesh Size: 12 x 5mm	5KN/m	1m x 25m	360g	Reel
1A120339	Triplet Windbreak	Green	Mesh Size: 12 x 14mm		1m x 25m	600g	Reel
90454506	High Strength Windbreak	Green	Mesh Size: 25 x 10mm	13KN/m	1.5m x 30m	450g	Reel
92035306	Super Strength Winbreak	Green	Mesh Size: 40 x 25mm	30KN/m	1m x 30m	700g	Reel



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# Elite Mesh

Our new range of premium contemporary meshes are displayed on a high impact merchandiser, these modern meshes offer a stunning Stainless Steel look with all the advantages and durability of plastic fencing.

### FEATURES

- UV stabilised
- Manufactured from HDPE (Non-toxic polymer)
- Manufactured in a variety of widths and lengths to suit different applications
- Excellent long lasting colour fastness
- Quick and Easy to install

### APPLICATIONS

- A multitude of contemporary applications
- Fence applications for gateways or balconies
- Pet enclosures
- Front and side air vents for animal cages and hutches
- Perimeter Fencing
- Can also be used on an existing fence system

CODE	DESCRIPTION	SIZE	WEIGHT g/m <sup>2</sup>	FORMAT
TGEL109009	Elite Décor Mesh Size: 30 x 30mm	1m x 30m	270g	Reel
TGEL109011	Elite Sterling Mesh Size: 44 x 33mm	1m x 50m	200g	Reel
TGEL109012	Elite Shading	1m x 50m	70g	Reel
TGEL109003	Elite Square 5 Mesh Size: 5 x 5mm 6 Reels per pack	1m x 5m	270g	Reel
TGEL109004	Elite Square 5 Mesh Size: 5 x 5mm 6 Reels per pack	1.5m x 5m	270g	Reel
TGEL109001	Elite Square 10 Mesh Size: 10 x 10mm 12 Reels per pack	0.5m x 5m	270g	Reel
TGEL109002	Elite Square 10 Mesh Size: 10 x 10mm	1m x 50m	270g	Reel
TGEL109005	Elite Square 20 Mesh Size: 20 x 20mm 6 Reels per pack	1m x 5m	270g	Reel
TGEL109007	Elite Windbreak Mesh Size: 3 x 3mm 6 Reels per pack	1m x 5m	85g	Reel
TGEL109010	Elite Tough-Mesh Mesh Size: 15 x 10mm 6 Reels per pack	1m x 5m	250g	Reel





## Tree Stakes & Tree Ties

Mesh 4 Ltd have a great selection of both round and square tanalised (Pressure treated) tree stakes. All the sizes have a pointed base for easy installation. Tanalised Wooden Stakes – The tanalising process is a wood preservative treatment which is carried out under

high vacuum pressure. Tanalising the timber ensures the preservative to sink deep into the timber cells which prevents fungal decay and rotting, which is caused by water.

### FEATURES

- Manufactured from softwood with a tanalised finish to protect the wood
- Tanalising is a wood preservative that protects against fungal decay
- Pointed bases on both square and round stakes for an easy installation
- Different heights and diameters available

### APPLICATIONS

- Agricultural & Garden fence supports
- Animal Fence posts
- Posts to secure stock fencing & welded wire panels & plastic meshes
- Supports for young trees and shelters

CODE	DESCRIPTION	SIZE	WEIGHT KG	FORMAT
3A111739	Round Tree Stake 1.22m	1.22m	1kg	Single Stake
3A111740	Round Tree Stake 1.53m	1.53m	1.2kg	Single Stake
3A111741	Round Tree Stake 1.83m	1.83m	2kg	Single Stake
3A111742	Round Tree Stake 2.14m	2.14m	3kg	Single Stake
3A111743	Round Tree Stake 2.44m	2.44m	3.3kg	Single Stake
3A042564	Square Tree Stake 1.22m	1.22m	0.8kg	24 Stakes/Bundle
3A042565	Square Tree Stake 1.53m	1.53m	1kg	24 Stakes/Bundle
3A042566	Square Tree Stake 1.83m	1.83m	1.2kg	24 Stakes/Bundle
3A042567	Square Tree Stake 2.14m	2.14m	2.4kg	12 Stakes/Bundle
3A042568	Square Tree Stake 2.44m	2.44m	2.75kg	12 Stakes/Bundle
3A111734	Tree Collar	30cm	0.5kg/Pack	12 pieces per pack
3A111730	Tree Tie 30cm	30cm	1kg/Box	30 pieces per box
3A111731	Tree Tie 40cm	40cm	1.6kg/Box	30 pieces per box
3A111732	Tree Tie 50cm	50cm	2kg/Box	30 pieces per box
3A111733	Tree Tie 60cm	60cm	2.4kg	30 pieces per box



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## Wire Products & Fencing

### Wire Products

Mesh 4 high tensile knotted stock fence that is manufactured to a high yield point. We have various height sizes to suit most applications, the fencing is complete with a robust hot dip finish.

### Red Brand Stock Fence.

Red Brand is the premium line of agricultural fencing products and reigns as the most recognised brand of farm fence in the United States. Since 1889 Red Brand has been standing guard with top quality, American-made fence products for a wide variety of horse and stock fence applications.

### FEATURES

- High Tensile & breaking loads
- A Hot dipped and galvanised finish that improves the lifespan
- Graduated Mesh hole sizes from top of the fence downwards

### APPLICATIONS

- General agricultural fencing applications
- Designed to enclose livestock such as pigs, sheep and goats
- Boundary and perimeter fencing
- Red Brand' fence products available for Horse Fence applications

CODE	DESCRIPTION	SIZE	WEIGHT KG	FORMAT
3A180004	High Tensile Deer Fence	1.9m x 100m	111kg	Reel
3A180005	High Tensile - Sheep/Goat Fence	1.2m x 30m	35kg	Reel
3A180006	Red Brand Stock Fence	915mm x 30m	24kg	Reel
3A180007	Red Brand Stock Fence	1.2m x 30m	30kg	Reel
3A180008	Red Brand Stock Fence	1.5m x 30m	40kg	Reel
3A180009	Red Brand Stock Fence	1.8m x 30m	45kg	Reel
3A180010	Red Brand Horse Fence	915mm x 50m	69kg	Reel
3A180011	Red Brand Horse Fence	1.2m x 50m	90kg	Reel

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## Chain-Link Fence

Mesh 4 plastic coated fencing has a diamond shaped structure, with a galvanised core. The extrusion process applies the PVC coat to provide a hard wearing and robust product. Mesh 4 offer a variety of sizes for a multitude of

applications such as residential, agricultural, industrial and for sports related areas. Some sizes also available in a galvanised version. We also stock chain-link accessories to complete any project!

### FEATURES

- Corrosion resistant
- Long lifespan
- Maintenance Free
- Various heights of fence to suit required application
- Green or black available

### APPLICATIONS

- Playground, Parks
- Roads, Fields
- Commercial Properties
- Industrial Security
- Tennis courts, sports fields

CODE	DESCRIPTION	SIZE	WEIGHT KG	FORMAT
3A122201	Chain Link Fence - PVC Coated	900mm x 25m (2.1/3.1mm)	32.5kg	Reel
3A122199	Chain Link Fence - PVC Coated	1.2m x 25m (2.1/3.1mm)	43.5kg	Reel
3A180012	Chain Link Fence - PVC Coated	1.5m x 25m (2.1/3.1mm)	54kg	Reel
3A180013	Chain Link Fence - PVC Coated	1.8m x 25m (2.1/3.1mm)	65.2kg	Reel
3A180014	Chain Link Fence - PVC Coated	2.4m x 12.5m (2.1/3.1mm)	87kg	Reel
3A180015	Chain Link Fence - PVC Coated	2.75m x 12.5m (2.1/3.1mm)	99kg	Reel
3A122202	Galvanised Chain Link	900mm x 25m	33.5kg	Reel



We can supply a comprehensive range of Chain Link Fence Posts and accessories, please call a member of our team on 01978 807345 for details.





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## Galvanised & PVC Coated Wire Netting

Traditional hexagonal netting for fencing, crop protection and animal enclosures.

### FEATURES

- Cost effective solution
- Lightweight material
- Malleable product

### APPLICATIONS

- Applications such as pet enclosures, rabbit hutches, chicken coops
- Gardening uses such as plant and crop protection
- Protection of young trees (Tree guards)

CODE	DESCRIPTION	SIZE	WEIGHT KG	FORMAT
3A021381	Galvanised wire netting Mesh Size: 13mm	0.6m x 10m	2.6kg	Reel (4PCS)
3A021384	Galvanised wire netting Mesh Size: 13mm	0.9m x 10m	3.8kg	Reel (4PCS)
3A021382	Galvanised wire netting Mesh Size: 25mm	0.6m x 10m	2kg	Reel (4PCS)
3A021385	Galvanised wire netting Mesh Size: 25mm	0.9m x 10m	3kg	Reel (4PCS)
3A021383	Galvanised wire netting Mesh Size: 50mm	0.6m x 10m	2.75kg	Reel (4PCS)
3A021386	Galvanised wire netting Mesh Size: 50mm	0.9m x 10m	2.25kg	Reel (4PCS)
3A021387	Green PVC coated wire nett Mesh Size: 13mm	0.5m x 10m	2.8kg	Reel (4PCS)
3A021390	Green PVC coated wire nett Mesh Size: 13mm	1m x 10m	5kg	Reel (4PCS)
3A021388	Green PVC coated wire nett Mesh Size: 25mm	0.5m x 10m	1.5kg	Reel (4PCS)
3A021391	Green PVC coated wire nett Mesh Size: 25mm	1m x 10m	3.5kg	Reel (4PCS)
3A021389	Green PVC coated wire nett Mesh Size: 50mm	0.5m x 10m	1.5kg	Reel (4PCS)
3A021392	Green PVC coated wire nett Mesh Size: 50mm	1m x 10m	2.35kg	Reel (4PCS)

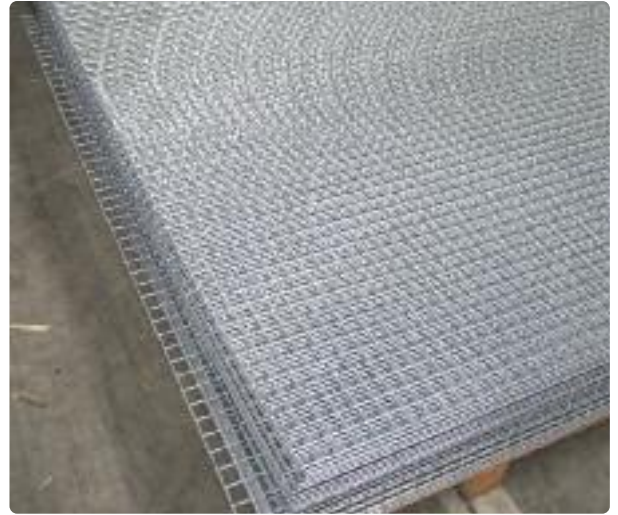
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## Galvanised Welded Mesh

These hot dip galvanised panels are heavy welded panels with a hot dipped galvanised finish offering a tough, durable bonded coat. Galvanised panels are mainly used in the industrial, construction, agricultural, breeding and DIY sectors.

### FEATURES

- Panels are hot dipped and galvanised for longevity
- Various mesh hole sizes
- A rigid alternative to wire mesh rolls

### APPLICATIONS

- Fence Panels
- Window Security Panels
- Pet cages and enclosures
- Bird Aviaries
- Animal Hutches
- Chicken Coops

CODE	DESCRIPTION		SIZE	WEIGHT KG	FORMAT
3A021393	Roll	Mesh size: 13 x 13mm	0.9m x 6m	5kg	Reel (4PCS)
3A021394	Roll	Mesh size: 13 x 25mm	0.9m x 6m	3.75kg	Reel (4PCS)
3A021398	Roll	Mesh size: 25 x 25mm	0.9m x 6m	3kg	Reel (4PCS)
3A042561	Panel	Mesh size: 6 x 6mm	0.6m x 0.9m	420g	Panel (6PCS)
3A021419	Panel	Mesh size: 13 x 13mm	0.6m x 0.9m	570g	Panel (6PCS)
3A021420	Panel	Mesh size: 13 x 25mm	0.6m x 0.9m	450g	Panel (6PCS)
3A021421	Panel	Mesh size: 25 x 25mm	0.6m x 0.9m	715g	Panel (6PCS)
3A042560	Panel	White PVC Coated Mesh size: 50mm	0.6m x 0.9m	500g	Panel (6PCS)
3A122214	Panel	10Gauge(3mm) Mesh size: 50mm	2.4m x 1.2m	6900g	Panel
3A180027	Panel	10 Gauge (3mm) Mesh size: 50mm	1.8m x 0.9m		Panel



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## Barbed Wire

Galvanised barbed wire for use in industrial, agricultural and breeding sectors. Double stranded galvanised barbed wire with a hot dipped galvanised finish.

### FEATURES

- Galvanised for longevity
- 15mm Barbs which act as a physical deterrent

### APPLICATIONS

- Used for security to fence tops
- For delimiting fields or boundary areas, used along with wooden fence posts

CODE	DESCRIPTION	SIZE	WEIGHT KG	FORMAT
3A122212	Barbed Wire Coil - 2.5mm - 15m Coil	15m	1.7kg	Coil





## Natural Screening

MESH4 has a wide range of decorative screening products which provide a quick and easy way of hiding unsightly objects or transforming brick walls and fences.

**Reed screen** - A sturdy screen which can be used on its own or attached to fixed fencing.

**Brushwood screen** - Natural thatch, woven into a decorative screen.

**Willow screen** - A high quality and sturdy screening constructed with galvanised wire for extra strength.

**Bamboo and Split Bamboo** - is perfect for creating secluded areas or just to screen unsightly items such as garden tools and equipment. Strong and weather proof it is an ideal alternative to natural screens and can easily be secured to terraces and balconies to provide shade and protection from wind.

### FEATURES

- Natural, sustainable eco-friendly screening products
- Quick and Easy installation with cable ties or wire
- A variety of different widths to suit
- Easy to extend the height for added privacy

### APPLICATIONS

- Can be used on an existing fence system
- Perfect for disguising unsightly walls
- Can be used on garden arbours
- Can also be used indoors

CODE	DESCRIPTION	SIZE	WEIGHT KG	FORMAT
3A042718	Reed screen	1m x 4m	1.5kg	Single reel
3A042719	Reed screen	1.5m x 4m	3kg	Single reel
3A042720	Reed screen	2m x 4m	4.5kg	Single reel
3A042712	Brushwood screen	1m x 4m	4.5kg	Single reel
3A042713	Brushwood screen	1.5m x 4m	5.5kg	Single reel
3A042714	Brushwood screen	2m x 4m	6.5kg	Single reel
3A021126	Willow screen	1m x 4m	7.5kg	Single reel
3A021144	Willow screen	1.5m x 4m	10kg	Single reel
3A021148	Willow screen	2m x 4m	15kg	Single reel
3A021114	Split bamboo screen	1m x 4m	6kg	Single reel
3A021134	Split bamboo screen	1.5m x 4m	8kg	Single reel
3A021137	Split bamboo screen	2m x 4m	12kg	Single reel
3A042709	Bamboo Cane Screen	1m x 4m	9.8kg	Single reel
3A042710	Bamboo Cane Screen	1.5m x 4m	12.5kg	Single reel
3A042711	Bamboo Cane Screen	2m x 4m	17.5kg	Single reel



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## Artificial Hedge

Exclusive to MESH4, Artificial Hedge is a realistic alternative to traditional grown hedging which takes time to establish and requires continuous maintenance.

MESH4 Artificial Hedge is quick and easy to install, requires no maintenance and lasts for years.

### FEATURES

- Quick and Easy installation with cable ties or wire
- A variety of different widths to suit
- Easy to extend the height for added privacy
- Guaranteed UV stabilisation for 2 years
- Low maintenance product, can be washed down with water
- Also available in a 1.5m x 20m reel for larger areas

### APPLICATIONS

- Can be used on an existing fence system
- Perfect for disguising unsightly walls
- Can be used for indoor events, marquees, parties and even film sets!

CODE	DESCRIPTION	SIZE	WEIGHT KG	FORMAT
3A097204	Ivy hedge - artificial	1m x 3m	1.7kg	Reel
3A097205	Ivy hedge - artificial	1.5m x 3m	2.5kg	Reel
3A097206	Conifer hedge super - artificial	1m x 3m	4.2kg	Reel
3A097207	Conifer hedge super - artificial	1.5m x 3m	6.3kg	Reel







## Wheelie Bin Screens

Disguises the common wheelie bin. Willow woven around a metal framework. Hinged middle for easy access. Includes hooks to secure to the wall.

### FEATURES

- Attractive woven style willow with hinged panels
- Hinged panels allows easy access to the bins
- Can be easily re-located to another area
- Choose from single, double or triple
- Minimal home assembly required

### APPLICATIONS

- Stow away ugly bins with Rattan style effect screening

CODE	DESCRIPTION	SIZE	WEIGHT KG	FORMAT
3A042721	Wheelie bin screen single	81cm x 64cm x 115cm	11.5kg	1 UNIT/Box
3A042722	Wheelie bin screen double	121cm x 80cm x 115cm	15.5kg	1 UNIT/Box
3A096754	Wheelie bin screen triple	182cm x 80cm x 115cm	27kg	1 UNIT/Box



SINGLE



DOUBLE



TRIPLE





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## Trellis Support Panels

### Willow Trellis Panel

An attractive contemporary design made from natural willow which is both decorative and functional.

Rustic Willow Fan Trellis - Rustic brown expandable willow fan trellis.

Arch Willow Trellis Panel - An attractive contemporary design made from natural willow which is both decorative and functional.

Willow Expandable Trellis - Rustic expandable willow trellis.

Timber Fan Trellis - Treated timber expandable trellis in a fan shape.



### FEATURES

- All the natural wood products derived from sustainable sources
- Various styles and structures to compliment any garden
- High Quality Durable products

### APPLICATIONS

- Strong and durable decorative trellis panels for accessorising any garden walls
- Can also be attached to existing fences to act as a climbing plant support
- Other applications include masking external garage walls & privacy screening

CODE	DESCRIPTION	SIZE	WEIGHT KG	FORMAT
3A111797	Natural 6ft x 2ft Frame Willow Trellis Panel	1.8m x 0.6m	15kg	1 Unit/Box
3A101250	Brown 6ft x 3ft HD Expand Willow Fan Trellis	1.8m x 0.9m	8kg	1 Unit/Box
3A111798	Natural 6ft x 2ft Curvtop Frame Willow Trellis Panel	1.8m x 0.6m	13kg	1 Unit/Box
3A111799	Natural 45cmx1.2m Curvtop Frame Willow Trellis Panel	0.45m x 1.2m	9kg	1 Unit/Box
3A101247	Brown 6ft x 1ft HD Expand Willow Trellis	1.8m x 0.3m	2.3kg	1 Unit/Box
3A101248	Brown 6ft x 2ft HD Expand Willow Trellis	1.8m x 0.6m	4.3Kkg	1 Unit/Box
3A101249	Brown 6ft x 3ft HD Expand Willow Trellis	1.8m x 0.9m	8.5kg	1 Unit/Box
3A021533	Tan Timber Fan Trellis	1.4m x 0.7m	0.38kg	5 Units/Box
3A021534	Tan Timber Fan Trellis	1.8m x 0.94m	0.68kg	5 Units/Box
3A021535	Tan Timber Fan Trellis	2.4m x 1.2m	0.97kg	5 Units/Box



## Shade & Shelter Nets

MESH4 shade & shelter net provides cost effective protection for plants and shrubs. Manufactured from UV stabilised HDPE knitted tape, they are permeable to air, light and water, yet provide protection against strong sunlight and winds.

Shade & shelter net can be attached to open fences, or used in the construction of shade tunnels and garden frames. Soleado is ideal for providing screening for gazebos, balconies, and terraces or just for general garden use.

### FEATURES

- UV stabilised High Density Polythene (HDPE)
- Reinforced Edges with eyelets
- Cost effective solution
- Can easily be re-used and transported to other areas

### APPLICATIONS

- Screening off site areas from the public
- Event Fencing
- Site debris containment
- Can be used as a windbreak for livestock, crops and plants

CODE	DESCRIPTION	SHADING	SIZE	WEIGHT g/m <sup>2</sup>	FORMAT
73030116	Shade and Shelter	70% shading	1m x 50m	70g	Reel
73030216	Shade and Shelter	70% shading	1.5m x 50m	70g	Reel
1A130433	Soleado HG	80% shading	1m x 100m	70g	Reel
1A130434	Soleado HG	80% shading	1.5m x 100m	70g	Reel
1A130435	Soleado HG	80% shading	2m x 100m folded	70g	Reel
1A130436	Soleado HG	80% shading	3m x 100m folded	70g	Reel
1A130437	Soleado HG	80% shading	4m x 100m folded	70g	Reel
1A130438	Soleado HG	80% shading	6m x 100m folded	70g	Reel

## Monofilament Nets

CODE	DESCRIPTION	SIZE	WEIGHT g/m <sup>2</sup>	FORMAT
3A180017	Monofilament Net (Side Reinforcement & Buttonholes)	2m x 100m	100g	Reel
3A180018	Monofilament Net (Side Reinforcement & Buttonholes)	3m x 100m	100g	Reel



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## Shade & Shelter Nets

The Soleado products are available in green and grey and are ideal for providing screening for gazebos, balconies,

and terraces or just for general garden use.

### FEATURES

- UV stabilised High Density Polythene (HDPE)
- Reinforced Edges with eyelets
- Cost effective solution
- Can easily be re-used and transported to other areas

### APPLICATIONS

- Screening off site areas from the public
- Event Fencing
- Site debris containment
- Can be used as a windbreak for livestock, crops and plants

CODE	DESCRIPTION	SIZE	WEIGHT g/m <sup>2</sup>	FORMAT
73031116	Soleado PRO Green 90% shading	1m x 50m	100g	Reel
1A060341	Soleado PRO Green 90% shading	1.2m x 100m	100g	Reel
73031216	Soleado PRO Green 90% shading	1.5m x 50m	100g	Reel
73030126	Soleado PRO Green 90% shading	1.5m x 100m	100g	Reel
1A090222	Soleado PRO Green 90% shading	1.8m x 100m	100g	Reel
73031316	Soleado PRO Green 90% shading	2m x 50m folded	100g	Reel
73030206	Soleado PRO Green 90% shading	2m x 100m folded	100g	Reel
73030306	Soleado PRO Green 90% shading	3m x 100m folded	100g	Reel
73031416	Soleado PRO Green 90% shading	4m x 50m folded	100g	Reel
73030406	Soleado PRO Green 90% shading	4m x 100m folded	100g	Reel
73030456	Soleado PRO Green 90% shading	6m x 100m folded	100g	Reel
73030506	Soleado PRO Green 90% shading	8m x 50m folded	100g	Reel
73029211	Soleado Bi-Colour Green/White	2m x 50m	90g	Reel
1A130320	Soleado Glam Grey	1m x 50m	95g	Reel
1A130321	Soleado Glam Grey	1.5m x 50m	95g	Reel
1A140067	Soleado Glam Grey	2m x 50m folded	95g	Reel





## Frost Protection Fleece

Manufactured from 17 gram UV stabilised polypropylene, MESH4 Thermotex® protection fleece can be used to protect crops from frost, wind, hail, birds and insects. It

will diffuse strong sunlight, reduce transpiration and is permeable to air and water.

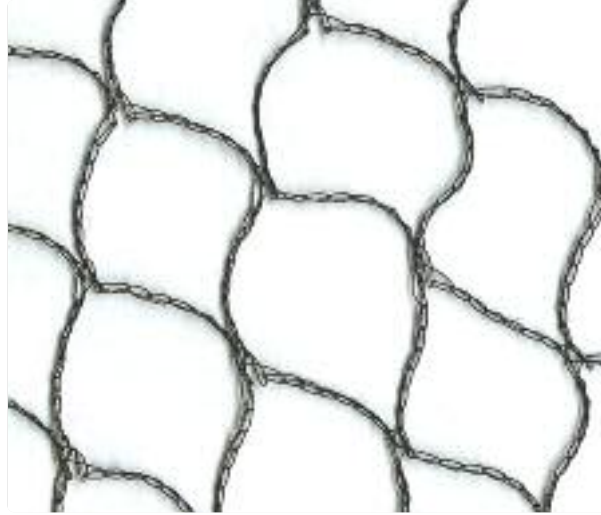
### FEATURES

- UV stabilised spun bonded polypropylene
- Large sized widths available
- Can easily be anchored down with the use of plastic pegs
- Permeable to air and water

### APPLICATIONS

- Protects crops against frost, rain, wind, hail, birds and insects
- Can be draped over plants and trees

CODE	DESCRIPTION	SIZE	WEIGHT g/m <sup>2</sup>	FORMAT
73009201	Frost protection fleece 17g	1.6m x 250m	17g	Reel
19990801	Frost protection fleece 17g	2m x 100m	17g	Reel
19990802	Frost protection fleece 17g	2m x 250m	17g	Reel
73009301	Frost protection fleece 17g	2.4m x 250m	17g	Reel
20010107	Frost protection fleece 17g	7.5m x 250m	17g	Reel
20010107	Frost protection fleece 17g	8.5m x 250m	17g	Reel
73909201	Frost protection fleece 30g	1.6m x 250m	30g	Reel



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## Knitted Bird Netting

MESH4 knitted anti-bird net is ideal for protecting large areas of crops from bird damage. Manufactured from UV stabilised HDPE, it is rot proof, chemical resistant and

available in widths up to 12 metres. It can be incorporated into caging systems or simply draped over fruit and vegetables.

### FEATURES

- UV stabilised
- Rot proof
- Various widths for different applications
- Expected lifespan of 5 years

### APPLICATIONS

- Anti - Bird Netting suitable for protection against crops
- Also used on polytunnel applications
- Poultry installations
- Fruit cage structures as roof netting

CODE	DESCRIPTION	SIZE	WEIGHT g/m <sup>2</sup>	FORMAT
3A180019	Knitted Bird Net 25mm Mesh Size	4m x 100m	12g	Bale
3A180020	Knitted Bird Net 25mm Mesh Size	8m x 100m	12g	Bale
3A180021	Knitted Bird Net 25mm Mesh Size	12m x 100m	12g	Bale

## Extruded Aviary Net

The extruded aviary net is manufactured as a 60-gram polypropylene netting. The netting is rot proof and is resistant to bird excretion and saline corrosion. It is a highly tear resistant product, yet flexible and light.



### FEATURES

- UV stabilised
- Resists bird excretions and saline corrosion
- Rolls are light and easy to handle

### APPLICATIONS

- Poultry installations
- Cages and enclosures for small animals
- Anti - Bird Net suitable for protection against crops

CODE	DESCRIPTION	SIZE	WEIGHT g/m <sup>2</sup>	FORMAT
1A030355	Extruded Aviary Net    Mesh Size: 16 x 19mm	2m x 200m	60g	Reel
1A070532	Knitted Bird Net        Mesh Size: 16 x 19mm	4m x 200m	60g	Reel



## Plant Support Nets

MESH4 plant support net has been designed to provide either vertical or horizontal support and is strong enough to withstand the heaviest of crops. Used vertically against a wall or on a frame, it is strong enough to encourage the

growth of peas, beans, cucumbers and marrows, alternatively, the nets can be placed horizontally to provide support for long stemmed flowers.

### FEATURES

- Manufactured from High Tensile Polypropylene (PP)
- UV stabilised, Rot proof, hard and durable
- Cost effective solution
- Facilitates a higher crop yield

### APPLICATIONS

- The net can provide horizontal and vertical plant support for fruit and vegetables such as: tomatoes, chillies, peas and beans, cucumbers and marrows

CODE	DESCRIPTION	SIZE	WEIGHT g/m <sup>2</sup>	FORMAT
58012507	7FG Mesh Size: 150 x 170mm	1.02m x 1000m	8.2g	Reel
58012508	8FG Mesh Size: 150 x 170mm	1.19m x 1000m	8g	Reel
58012009	9FG Mesh Size: 150 x 170mm	1.36m x 500m	7.9g	Reel
58012509	9FG Mesh Size: 150 x 170mm	1.36m x 1000m	7.9g	Reel
58012010	10FG Mesh Size: 150 x 170mm	1.53m x 500m	7.8g	Reel
58012510	10FG Mesh Size: 150 x 170mm	1.53m x 1000m	7.8g	Reel
58012011	11FG Mesh Size: 150 x 170mm	1.70m x 500m	7.7g	Reel
58012511	11FG Mesh Size: 150 x 170mm	1.70m x 1000m	7.7g	Reel
58022012	12FG Mesh Size: 150 x 170mm	1.87m x 500m	7.6g	Reel
58012512	12FG Mesh Size: 150 x 170mm	1.87m x 1000m	7.6g	Reel
58012013	13FG Mesh Size: 150 x 170mm	2.04m x 500m	7.6g	Reel
58012513	13FG Mesh Size: 150 x 170mm	2.04m x 1000m	7.6g	Reel
58012516	16FG Mesh Size: 150 x 170mm	2.55m x 1000m	7.5g	Reel
58012520	20FG Mesh Size: 150 x 170mm	3.23m x 1000m	7.4g	Reel
58012526	26FG Mesh Size: 150 x 170mm	4.25m x 1000m	7.3g	Reel
58014509	9FGPO Mesh Size: 125 x 125mm	1m x 1000m	9g	Reel
58014510	10FGPO Mesh Size: 125 x 125mm	1.12m x 1000m	8.1g	Reel
58014511	11FGPO Mesh Size: 125 x 125mm	1.25m x 1000m	8.8g	Reel





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## Turf Growing Net

Radix is a turf netting which allows the rooting system of various turf grasses to intertwine with the mesh apertures to form a uniform mat, creating excellent sod strength. Radix gets its name from the Latin word for "root" – and for a good reason, this product is specially designed to help vegetation establish an effective root base.

Using Radix allows for the turf grass to be harvested thinner and lighter in weight, yet the sods are just as robust. This can result in lower handling and transportation costs. Waste is also cut by significantly reducing the number of broken or damaged sods.

### FEATURES

- Manufactured from Polypropylene (PP)
- Mesh size - 35mm x 20mm
- Enables more frequent harvesting and higher yields
- Increases the root strength and density of the turf
- Oxy-Biodegradable version also available
- Other width sizes available

### APPLICATIONS

- Turf cultivation net used to produce turf

CODE	DESCRIPTION	SIZE	WEIGHT KG	FORMAT
79S08526	Turf growing net (Radix) Green - 6 Inch dia plastic core	5.26m x 7620m	281kg	Reel
	Oxy-Biodegradable turf growing net - 6 Inch plastic core	5.26m x 7620m	281kg	Reel



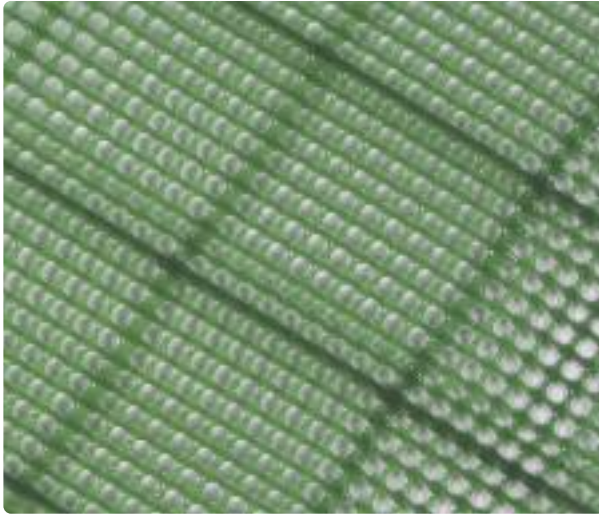
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## Insect & Soffit Mesh

### Zanzibar

Mesh 4 High Quality Aluminium insect mesh. The product is highly durable and flexible and can be shaped to the application. The product is available in 1m and 1.2m widths.

### Tropical Mesh

Mesh 4 Fibreglass insect mesh which is available in 3 colours – Grey, Green & White. Typical applications for this mesh are for screening on doors and windows. It is also used behind cladding systems to act as a flyscreen.

### Insect Mesh

This black insect mesh is manufactured from HDPE which is UV stabilised. The mesh size is 2mm x 2mm, and is therefore suitable to protect against flies and insects. The mesh is produced as a 1.2m x 50m reel, it is rot proof and has a good open area to allow air flow. It is suitable for applications such as door and window screening, air filtration, louvres, soffits, conservatory vents.

### FEATURES

- UV stabilised materials
- Different colours
- Cost effective solutions
- Available in different width sizes

### APPLICATIONS

- The Insect and Soffit meshes can protect louvre systems, vents, roofs, doors and windows against: Insects, flies, wasps, bees and mosquitos

CODE	DESCRIPTION			SIZE	WEIGHT g/m <sup>2</sup>	FORMAT
73011321	Zanzibar	Aluminium	Mesh Size: 1.8 x 1.4mm	1.2 x 30m	140g	Reel
73310312A	Tropical Mesh	Fibreglass	Mesh Size: 1.6 x 1.6mm	1.2m x 30m	140g	Reel
73010402	Tropical Mesh	Fibreglass	Mesh Size: 1.6 x 1.6mm	1.4m x 30m	140g	4 Reels/Box
1A040399	Insect Mesh	Grey	Mesh Size: 1.6 x 1.6mm	1m x 50m	200g	Reel
1A040403	Insect Mesh	Green	Mesh Size: 1.6 x 1.6mm	1m x 50m	200g	Reel
3A180016	Insect Mesh	Black	Mesh Size: 2.0 x 2.0mm	1.2m x 50m	220g	Reel



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## Mole Net

MESH4 S38 (mole-net) is made of Polypropylene (PP). It effectively protects your lawn from moles and small rodents which dig holes in the ground. This mesh is very light but also heavy-duty like a metal net. However, unlike the latter, it resists chemicals and weather elements.

The particular stretching process in both directions which it undergoes during production provides this mesh with exceptional tensile strength, so it can withstand intense stresses.

### FEATURES

- Manufactured from Polypropylene (PP)
- Mesh size - 12mm x 12mm
- Light weight and durable netting
- An anti-mole method that does not harm the animal
- Resistant to chemicals
- Available in different widths

### APPLICATIONS

- A solution to protect lawns, vegetables, flower beds, crops, etc from moles

CODE	DESCRIPTION	SIZE	WEIGHT g/m <sup>2</sup>	FORMAT
1A120114	S 38 (MOLENET) Black Mesh Size: 12 x 12mm	2.00 x 200m	40g	Reel
1A120115	S 38 (MOLENET) Black Mesh Size: 12 x 12mm	1.00 x 200m	40g	Reel



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## Bubble Insulation Film

MESH4 bubble insulation provides growers with a cost effective solution to heat loss in glasshouses and cold frames. Manufactured from three-ply UV

stabilised film in large bubble format, MESH4 bubble insulation effectively protects vulnerable plants and shrubs from frost damage.

### FEATURES

- UV stabilised for longer lifespan
- Tri-Laminate and high quality
- Large Bubble size for increased insulation
- Different width sizes

### APPLICATIONS

- Used in polytunnels and green houses as a winter insulating layer
- Transit Packaging

CODE	DESCRIPTION	SIZE	WEIGHT g/m <sup>2</sup>	FORMAT
20000707	Bubble insulation	1.5m x 50m	100g	Reel
20010101	Bubble insulation	2.4m x 50m	100g	Reel

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## Composite Deck Boards

Mesh 4 composite decking is manufactured from 100% recycled materials. It contains a blend of recycled hardwood flour, and recycled HDPE.

This high performance composite will never require any oiling, sanding or staining and there is practically no upkeep required.

Our low maintenance Mesh 4 composite boards are ideal for any garden or patio area. However, we can manufacture the boards up to 6Metres in length to accommodate the larger projects for schools or hotels. The boards are manufactured at a standard 3.6Metres in length.

### FEATURES

- Manufactured from recycled materials and environmentally friendly
- 25 Year Guarantee
- High Slip resistance
- Low maintenance
- Can be 'Made to Measure' for specific projects

### APPLICATIONS

- Composite Decking for Domestic or Commercial Projects



Welsh Slate

Pennine Millstone

Cornish Pebble

Brecon Shale

Highland Basalt

CODE	DESCRIPTION	SIZE	WEIGHT/LM	FORMAT
3A180022	Welsh slate	21mm x 136mm x 3.6m	3000g	60 Boards/Pack - 30m <sup>2</sup> Per Pack
3A180023	Pennine Millstone	21mm x 136mm x 3.6m	3000g	60 Boards/Pack - 30m <sup>2</sup> Per Pack
3A180024	Cornish Pebble	21mm x 136mm x 3.6m	3000g	60 Boards/Pack - 30m <sup>2</sup> Per Pack
3A180025	Brecon Shale	21mm x 136mm x 3.6m	3000g	60 Boards/Pack - 30m <sup>2</sup> Per Pack
3A180026	Highland Basalt	21mm x 136mm x 3.6m	3000g	60 Boards/Pack - 30m <sup>2</sup> Per Pack





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## Reinforced Protection Sheet

Use as a temporary shelter on building sites and for protecting materials stored outside. It can also be used as a replacement for glass.

### FEATURES

- Double layer of tough polythene with a laminated net in-between
- High Tensile strength and puncture resistance
- Hardwearing & re-usable
- Chemically stable

### APPLICATIONS

- Can be used as a temporary shelter on building sites
- Temporary protective floor covering
- Interim window and door replacement material
- Transit Packaging

CODE	DESCRIPTION	SIZE	WEIGHT g/m <sup>2</sup>	FORMAT
73000506	Reinforced Protection Sheet	1.8m x 50m	140g	Reel

## Screed Reinforcement

These fibreglass nets have a rectangular mesh structure and are coated with starch to avoid the attack of alkali. They offer excellent dimensional stability and tear resistance. KAP/L is also ideal for the reinforcement of 'adhesive smoothing' in thermal insulation systems.



### FEATURES

- Fibreglass Net, prevents surface cracking
- Good dimensional stability
- Alkaline resistant
- Easy to apply and cut with scissors

### APPLICATIONS

- Designed as a screed reinforcement to support plaster, render and mortar
- Can be used for outdoor and indoor applications

CODE	DESCRIPTION	SIZE	WEIGHT g/m <sup>2</sup>	FORMAT
80019505	KAP Yellow	1m x 50m	140g	Reel
80019711	KAP L - White	1m x 50m	70g	Reel

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## Insulation Support Net

Insulation support net is a lightweight polypropylene net used to support and secure insulation materials within framework and joists.

### FEATURES

- Manufactured from Polypropylene (PP)
- Mesh size - 20mm x 20mm
- Rot proof, chemical resistant and UV stabilised
- Suitable for insulation materials from 100mm to 250mm deep
- Single thickness can span rafters up to 450mm, or by doubling up the next can cover up to 1200mm
- Easy to install by stapling or tacking to rafters

### APPLICATIONS

- Designed to hold and support insulation materials from K-Boards to Rockwool
- Can be used under ventilated timber floors during refurbishment



CODE	DESCRIPTION	SIZE	WEIGHT g/m <sup>2</sup>	FORMAT
20010804	Insulation Support Net - Black	1m x 100m	15g	Reel
56791009	Insulation Support Net - Black	2m x 100m	15g	Reel

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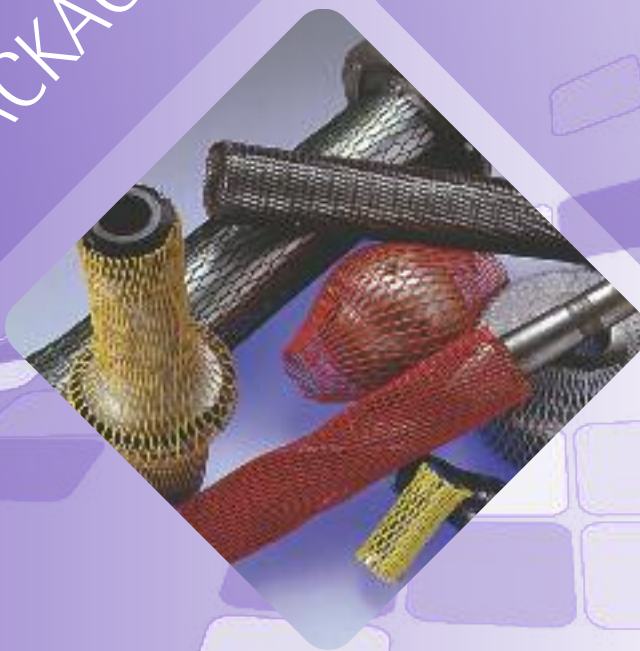
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## Protective Tubular Sleeving

MESH4 TP (Tubular Sleeving) sleeves are designed to protect items against collision and damage caused by contact rubbing. This often happens during handling and

storage in the warehouse, or during the shipment of parts that are packaged without protection.

### FEATURES

- Manufactured from Low Density Polythene (LDPE)
- High resistance to oil, grease and chemicals
- Elimination of the problems caused by rubbing or condensation
- Moulds around irregular shaped items
- Wide range of sizes, diameters and colours
- Versatile, reusable and recyclable

### APPLICATIONS

- Transit packaging for machined parts
- Ceramic and glass products
- Stainless steel
- Car exhaust systems

CODE	DESCRIPTION	COLOUR	WEIGHT/LM	STRETCH
86800520	TP5 (200m per reel x 4 reels per box)	Clear	12g	7 - 15mm
86801020	TP10 (200m per reel x 4 reels per box)	Violet	15g	10 - 20mm
1A060390	TP15 (200m per reel x 4 reels per box)	Light Blue	15g	15 - 30mm
86802020	TP20 (200m per reel x 4 reels per box)	Blue	25g	25 - 50mm
86805020	TP50 (200m per reel x 2 reels per box)	Yellow	40g	35 - 70mm
86807520	TP75 (200m per reel x 2 reels per box)	Brown	45g	50 - 75mm
86810020	TP100 (200m per reel x 2 reels per box)	Red	55g	50 - 100mm
86815005	TP150 (50m per reel x 2 reels per box)	Orange	100g	75 - 150mm
1A040192	TP180 (50m per reel x 1 reel per box)	Light Green	155g	125 - 200mm
86820020	TP200 (200m per reel x 2 reels per box)	Dark Green	55g	100 - 200mm
86822010	TP220 (100m per reel x 2 reels per box)	Clear	100g	125 - 250mm
86802220	TP20/15 (200m per reel x 4 reels per box)	Clear	15g	20 - 50mm
86809505	TP95 (200m per reel x 2 reels per box)	Pink	30g	50 - 100mm
86814010	TP140 (200m per reel x 2 reels per box)	Ochre	55g	70 - 160mm
1A090120	TP210 (200m per reel x 2 reels per box)	Black	55g	120 - 250mm



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## Cylinder Sleeves

TENAX manufactures tubular nets for the protection of cylinders and large items during the storage and transport. Following the painting process of these types of products, it is essential to then protect the surfaces of these goods in order to prevent scratches and chafing.

Tenax tubular nets are strong, elastic and easy to fit, they also guarantee the durability of cylinders, extinguishers and tanks.

### FEATURES

- Manufactured from Low Density Polythene (LDPE)
- Moulds around irregular shaped items
- Elimination of the problems caused by rubbing or condensation
- Versatile, reusable and recyclable

### APPLICATIONS

- Transit packaging for cylinders, fire extinguishers, tank systems, ceramic parts

CODE	DESCRIPTION	COLOUR	MIN/MAX Ø	REEL LENGTH
86820020	TP200	Dark Green	100/200	50m
86822010	TP220	Colourless	125/250	50m
3A100011	TP230	Blue	150/300	100m
91020300	TP950	Colourless	190/250	30m
91060300	TP1150	Colourless	250/400	30m
91070300	TP1200	Colourless	350/550	30m

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## Separation Mesh

**Flat Nets for Separation** – Flat nets are produced in polyethylene (HDPE) for separation, protection and handling of the manufactured and semi-finished products, that are then placed on pallets or inserted into boxes or containers.

TENAX CN nets separate and protect mechanical objects from clashing together and damages resulting from

contact. Machined products and mechanical parts can be packed when they are still hot or wet, avoiding the process of condensed water retaining on the parts. The mesh can be re-used several times, in order to gain production efficiencies.

### FEATURES

- Manufactured from High Density Polythene (HDPE)
- Rot proof, chemical resistant and UV stabilised
- Versatile, reusable and recyclable
- Can be cut to a specific length
- High Tensile strength and puncture resistance

### APPLICATIONS

- Separation mesh to create a protective layer for use in metal, wooden or plastic stillages
- Can be used as a bird guard in louvre and vent systems

CODE	DESCRIPTION	COLOUR	WEIGHT g/m <sup>2</sup>	STRETCH
80191409	CN1	Black	375g	0.8m x 50m
80288100	CN2	Black	400g	1m x 50m
80096510	CN7	Black	250g	0.8m x 50m
1A100448	CN35	Clear	200g	1.18m x 50m
1A040159	CN40	Black	164g	0.76m x 50m
80004109	CE402	Black	1200g	1.2m x 20m



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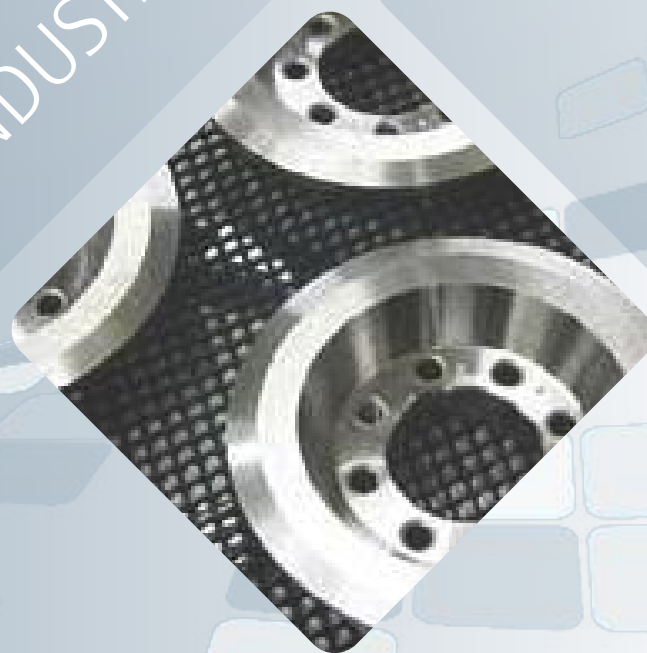
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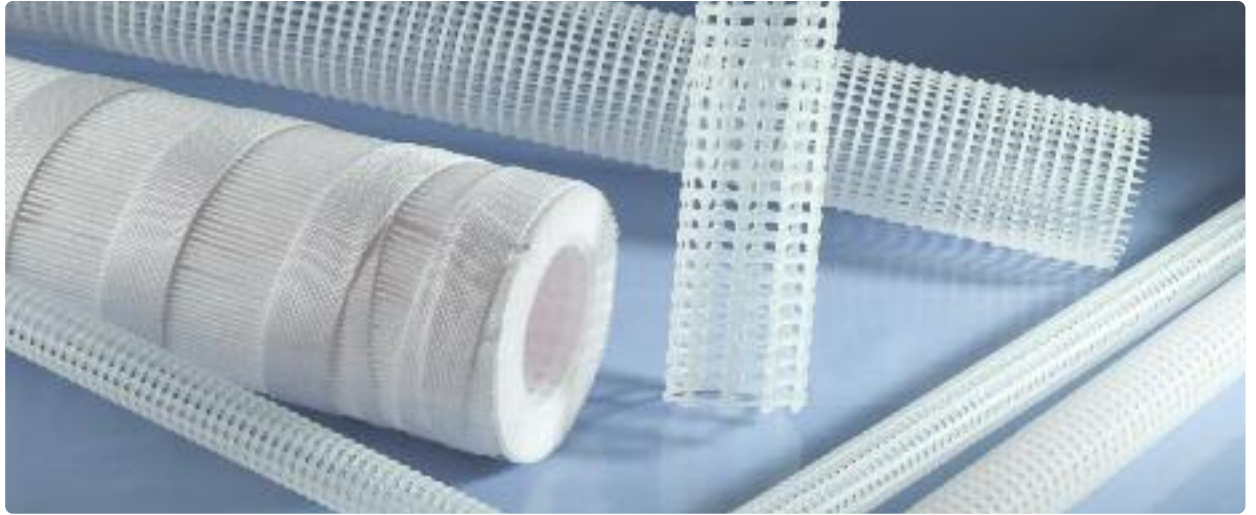
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## Rigid Mesh Tubes

For the application of efficient and durable Filters. The rigid mesh tubes manufactured by TENAX are usually used both as inner support (core) and as outer protection (cage) of cartridges for air, water and/or industrial fluids filtration. The extrusion technology allows to create tubular profiles suitable and adaptable to any customer's need.

The main features which can be controlled through this process are: inner and outer diameters, the length of pieces, the opening dimensions and the opening ratio.

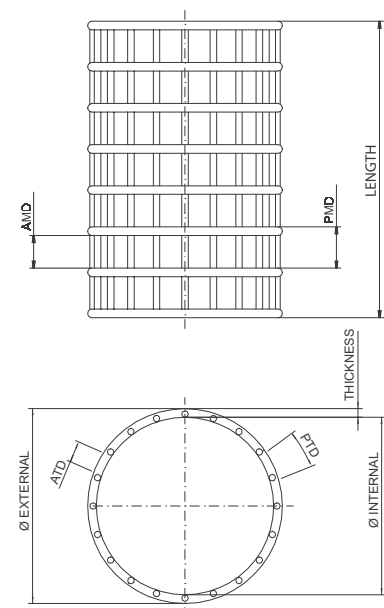
### FEATURES

- Manufactured to ISO 9001 Standards
- Available in High Density Polythene (HDPE) or Polypropylene (PP)
- Replacement for Steel cores or cages
- Chemically Inert

### APPLICATIONS

- Inner support (Core) Filter
- Outer support (Cage) Filter
- Air, Water and Industrial Fluids

VARIABLES	DIMENSIONS	TOLERANCE
Max length	3000mm	± 1.0mm
Min length	200mm	± 2.0mm
Min / Max thickness	1.5 / 7.5mm	
Min inner diam.	27mm	± 0.5mm
Max outer diam.	225mm	± 1.0mm
Mesh	square	
Section	circular	
Colour	clear/colourless	
Surface	smooth/rough	
Min/Max working temp.	-40°C (FT/H) +130°C (FT/P)	





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## Flat Nets

**Flat Nets for Separation** – Flat nets are produced in polyethylene (HDPE) for separation, protection and handling of the manufactured and semi-finished products, that are then placed on pallets or inserted into boxes or containers.

TENAX CN nets separate and protect mechanical objects from clashing together and damages resulting from contact. Machined products and mechanical parts can be packed when they are still hot or wet, avoiding the

process of condensed water retaining on the parts. The mesh can be re-used several times, in order to gain production efficiencies.

**Flats Nets for Use in the Food Industry** – TENAX offers a wide range of flat nets suitable for direct food contact, certified according to European and American standards. They can be used as drainer in dairy and food processing industry, as well as separator layer inside many washing appliances.

### FEATURES

- Manufactured from High Density Polythene (HDPE)
- Rot proof, chemical resistant and UV stabilised
- Versatile, reusable and recyclable
- Can be cut to a specific length
- High Tensile strength and puncture resistance

### APPLICATIONS

- Separation mesh to create a protective layer for use in metal, wooden or plastic stillages
- Can be used as a bird guard in louvre and vent systems

CODE	DESCRIPTION	COLOUR	WEIGHT g/m <sup>2</sup>	STRETCH
80191409	CN1	Black	375g	0.8m x 50m
80288100	CN2	Black	400g	1m x50m
80096510	CN7	Black	250g	0.8m x 50m
1A100148	CN35	Clear	200g	1.18m x 50m
1A040159	CN40	Black	164g	0.76m x 50m
80004109	CE402	Black	1200g	1.2m x 20m
Flats Nets for Use in the Food Industry				
80032509	S22	Clear	58g	3.8m x 500m
78039030	OS 050	Clear	110g	1m x 100m
65101100	OS 100	Clear	180g	1m x 100m
65102050	OS 102	Clear	415g	1m x 50m
65103050	OS 103	Clear	340g	1m x 50m
65104100	OS 104	Clear	150g	1m x 100m



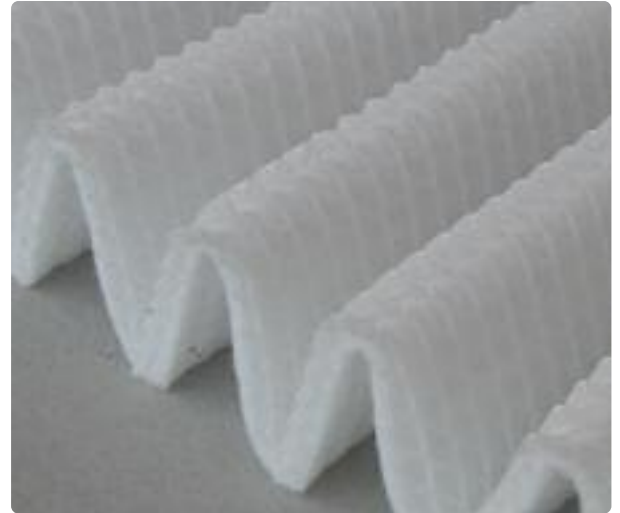
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## Pleating Supports

### Single and dual-flat extruded nets

Single or dual flat extruded nettings with rhomboidal mesh used as support and pleating of media filters. The use of the net as a spacer among the pleats of a filter media, helps to keep the shape and prevents contact by maintaining the space and avoiding a reduction of the filter performance.

### New Material for Flat Nets

The Tenax range of products also include materials made of advanced polymers, with the capability to satisfy high mechanical and thermal requirements. The PA6 (Nylon) spacers can be placed in contact with oils and corrosive substances. The flat nets are available up to a width of 1000mm using this material.

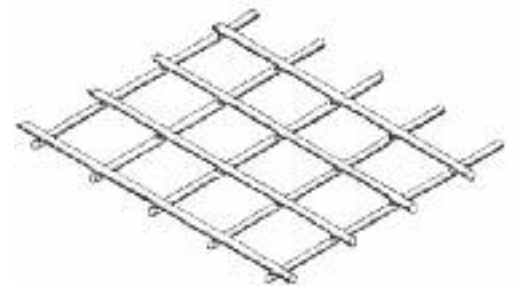
#### FEATURES

- Manufactured from Polypropylene or PA6 (Nylon)
- ISO9001 Standards
- Ultrasonic welding capability
- Cost effective for sheet metal replacement

#### APPLICATIONS

- Air cabin filters
- Liquid filtration
- Oil filtration (PA6 - nylon)

VARIABLES	DIMENSIONS	TOLERANCE
Max width	2.000mm	± 0.5mm
Min thickness	0.4mm	± 0.07mm
Max thickness	3.8mm	± 0.07mm
Min pitch MD	2.30mm	± 0.30mm
Min pitch TD	1.40mm	± 0.20mm
Min working temp.	-40°C	
Max working temp.	+120°C	
Colour	colourless	





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## Draining Spacers for Reverse Osmosis

### OS Nets

For reverse osmosis and ultra-filtration, TENAX has its range of flow spacers for membranes. These are dual-flat rhomboidal nets, and can be manufactured to suit the

client. The flat mesh has a minimum thickness of 0.65mm and mesh size of 2.6mm x 1.90mm. TENAX spacers, named as OS products, are certified for direct food contact according to EU Reg. 10/2011 and American FDA.

### FEATURES

- Manufactured from polypropylene
- Direct food contact approved EU Reg. 10/2011
- ISO9001 certified

### APPLICATIONS

- Used within filtration units for reverse osmosis

CODE	DESCRIPTION	OPEN MESH AREA	WEIGHT g/m <sup>2</sup>	THICKNESS
78039030	OS 050	2.20 x 1.75mm	110g	0.65mm
65101100	OS 100	3.0 x 3.0mm	160g	1.2mm
65105150	OS 101	3.5 x 3.5mm	80g	0.72mm
65102050	OS 102	3.5 x 3.5mm	415g	2.0mm

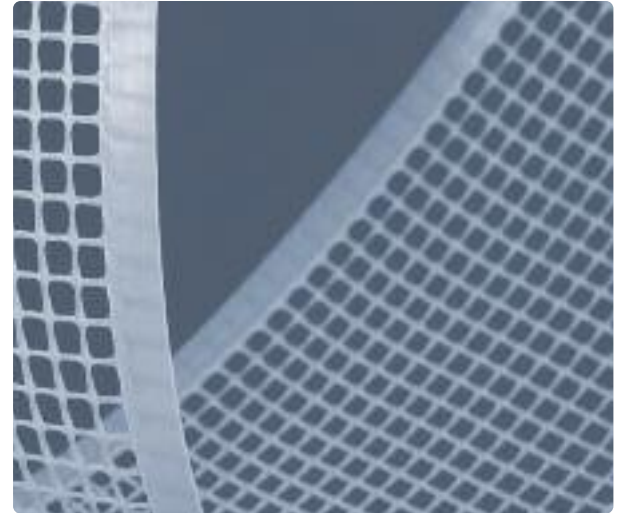
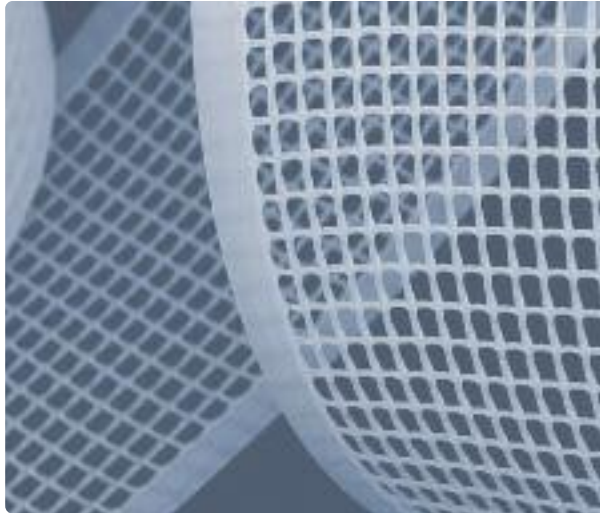
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## Filter Outer Protection

### Tubular and flat nets designed for outer protection of filtration cartridges

TENAX offers many solutions to control and protect the external outer side of the filter media. The replacement of sheet metal with a plastic sleeve or a flat net, allows the incineration of cartridges after their use. This saves time

and money for disassemble and separates the filter components. TENAX products can be used in a myriad of industrial process, as they are completely suitable for ultrasound or low temperature welding. The products can also be supplied with a flame retardant additive.

#### FEATURES

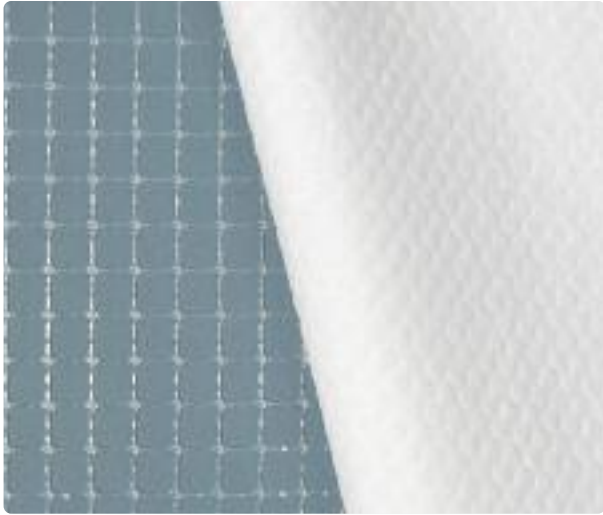
- Manufactured to ISO 9001 Standards
- Available in Polypropylene (PP) or Nylon (PA6)
- Replacement for sheet metal is cost effective
- Ultrasonic welding capability

#### APPLICATIONS

- Flat Nets can be used as a single or dual layer for support and pleating of media filters
- Industrial Filter Cartridges
- Air Cabin Filters (Dust)
- Liquid Filtration
- Oil Filtration (Nylon based flat nets)

CODE	DESCRIPTION	POLYMER	DIAMETER	WEIGHT g/m <sup>2</sup>	COLOUR
1A050460	ES-LD 200	LDPE	200mm	170g	colourless
1A050461	ES-LD 230	LDPE	230mm	190g	colourless
1A070369	ES-LD 270	LDPE	270mm	250g	silver
1A050462	ES-LD 275	LDPE	275mm	230g	colourless
1A050463	ES-LD 306	LDPE	306mm	270g	colourless
1A050464	ES-LD 355	LDPE	355mm	300g	colourless





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## Paper & Nonwoven Products

A smart and recyclable solution, to reinforce nonwoven products and reinforced paper through lamination production techniques.

TENAX extruded bi-oriented nets have many applications as reinforcement in the production of industrial fabrics, laminated composites, plastic, paper and for the structural support of polyurethane seats for cars, trains and planes. Unlike woven structures, extruded bioriented nets have

the clear advantage of being ladder-proof and maintain high dimensional stability throughout the production process.

The molecular orientation process enables certain products to achieve uniform mechanical characteristics. We can manufacture net products larger than 4 metres in width, so that the performance of the finished product is not restricted.

### FEATURES

- Dimensional stability and consistency
- High mechanical resistance
- Flexible, Light weight and Tear resistant
- Recyclable and incinerable material

### APPLICATIONS

- Industrial fabrics,
- Laminated composites,
- Plastic, paper
- Structural support of polyurethane seats for cars, trains and planes

CODE	DESCRIPTION	MESH SIZE	WEIGHT g/m <sup>2</sup>	STRENGTH
R 16-T	Light weight extruded bi-oriented	8 x 12mm	5.4g	0.5 x 0.7
R 11	Light weight extruded bi-oriented	8 x 10mm	5.7g	0.5 x 0.7
R 24	Light weight extruded bi-oriented	6.5 x 6.5mm	5.7g	0.5 x 0.7
R 17	Light weight extruded bi-oriented	12.7 x 12.7mm	8g	0.6 x 0.75
R 12	Light weight extruded bi-oriented	10 x 12mm	12g	1.0 x 1.2
R 22	Light weight extruded bi-oriented	4.1 x 4.3mm	10g	0.9 x 1.2
R 18	Light weight extruded bi-oriented	12.7 x 12.7mm	15g	1.0 x 1.5
R 9	Light weight extruded bi-oriented	7 x 9mm	35g	2.2 x 3.4

### HPP – Homopolymer polypropylene

A Light material, resistant to chemical substances (as salts, acids and strong alkalis) and with a high mechanical strength. It is used for bi-oriented (stretched) products. Suitable for direct food contact.

Specific weight: 0.9-0.915 g/cm<sup>3</sup> (56.19-57.12 lb/ft<sup>3</sup>)  
 Melting temperature: 162-168°C (323.6-334.4°F)  
 Tensile strength: 34-37 MPa  
 Young's modulus: 1200-2000 Pa  
 Yield elongation: 5-10%  
 Break elongation: 500-700%  
 Working temperature: +0°C – +90°C (32°F – 194°F)  
 Max working temperature (short period): +100°C (212°F)

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## Light Weight Nets

Light-weight material, resistant to chemical substances (as salts, acids and strong alkalis) and with a high mechanical

strength. It is used for bi-oriented (stretched) products. Suitable for direct food contact.

### FEATURES

- Manufactured to ISO9001 standards
- High tensile polypropylene
- Chemically inert
- Suitable for food use

### APPLICATIONS

- Industrial fabrics
- Laminated composites

CODE	DESCRIPTION	MESH SIZE	WEIGHT g/m <sup>2</sup>	STRENGTH
R 16-T	Light weight extruded bi-oriented	8 x 12mm	5.4g	0.5 x 0.7
R 11	Light weight extruded bi-oriented	8 x 10mm	5.7g	0.5 x 0.7
R 24	Light weight extruded bi-oriented	6.5 x 6.5mm	5.7g	0.5 x 0.7
R 17	Light weight extruded bi-oriented	12.7 x 12.7mm	8g	0.6 x 0.75
R 12	Light weight extruded bi-oriented	10 x 12mm	12g	1.0 x 1.2
R 22	Light weight extruded bi-oriented	4.1 x 4.3mm	10g	0.9 x 1.2
R 18	Light weight extruded bi-oriented	12.7 x 12.7mm	15g	1.0 x 1.5
R 9	Light weight extruded bi-oriented	7 x 9mm	35g	2.2 x 3.4

### HPP – Homopolymer polypropylene

A Light material, resistant to chemical substances (as salts, acids and strong alkalis) and with a high mechanical strength. It is used for bi-oriented (stretched) products. Suitable for direct food contact.

### Physical & mechanical features

Maximum width: 6,00 m  
Minimum thickness: 0,23 mm  
Maximum thickness: 0,70 mm  
Working min. Temperature: -20°C  
Working max. Temperature: +120°C  
Colour: clear/ customized  
Mesh: square  
Minimum weight: 5 g/m<sup>2</sup>



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# Medical & Hygiene

## Reinforcement of technical cloths

Many single-use accessories like wipes, gauzes and nappies can be reinforced using light weight stretched polypropylene grids. TENAX products offer an outstandingly high transpiration ratio and are waterproof to any kind of fluid.

Light material, resistant to chemical substances (as salts, acids and strong alkalis) and with a high mechanical strength. It is used for bi-oriented (stretched) products. Suitable for direct food contact.

**FEATURES**

- Dimensional stability and consistency
- High mechanical resistance
- Flexibility
- Tear resistant
- Recyclable and incinerable material
- Light weight

**APPLICATIONS**

- Industrial fabrics, laminated composites, plastic, paper and for the structural support of polyurethane seats for cars, trains and planes

## HPP – Homopolymer polypropylene

A Light material, resistant to chemical substances (as salts, acids and strong alkalis) and with a high mechanical strength. It is used for bi-oriented (stretched) products. Suitable for direct food contact.

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 Melting temperature: 162-168°C (323.6-334.4°F)  
 Tensile strength: 34-37 MPa  
 Young's modulus: 1200-2000 Pa  
 Yield elongation: 5-10%  
 Break elongation: 500-700%  
 Working temperature: +0°C – +90°C (32°F – 194°F)  
 Max working temperature (short period): +100°C (212°F)



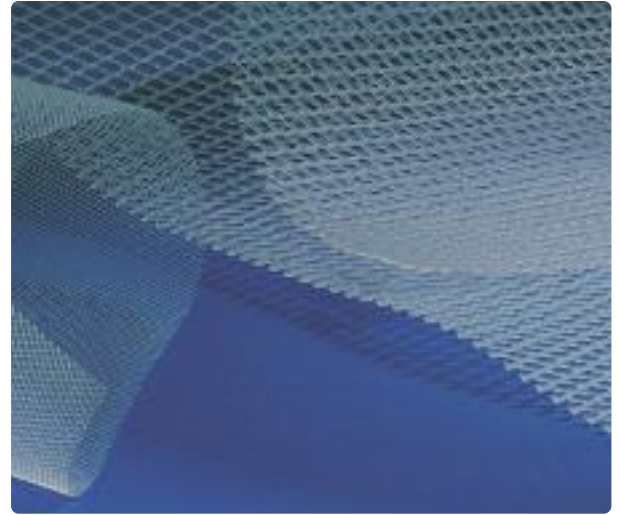
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## Flow Media for Resin Infusion

TENAX can provide smart solutions for resin infusion in the composite industry. Dual-flat rhomboidal meshes show a great effectiveness if used as flow media during the vacuum assisted resin infusion process (VARI). This type of product, belonging to the so-called OS family of flat nets, can be made of high-density polyethylene, polypropylene and polyamide, according to the temperature resistance and chemical compatibility.

### Dual-Flat-Netting

The usage of this kind of grid allows the uniform distribution of mechanical and geometrical features throughout the mould and maintains the flow speed under control.

Dual-flat netting is used in applications such as Hydro wind turbines, light plane wings and boat hulls, where the end product is subject to a high mechanical stress rate.

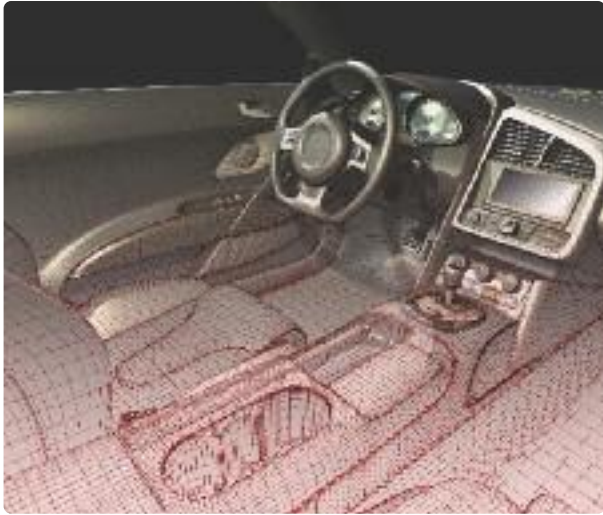
The usual layer-configuration of a composites mould includes the following items: the reinforcement fibres, the "peel ply" (to help the adhesion and the after-work separation), the flow media mesh and the bagging film with the nozzle to inject the resin. Once the air inside the bag is drawn out, the epoxy constituent can flow inside. Due to the channels within the grid mesh, the fluid then covers all the fields of the composite surface with no risk of inconsistency or voids in the final product.

### BI-Planar Extruded Meshes

#### OS Flat Nets: PP & PA meshes

Bi-planar (dual flat) extruded nettings with a rhomboidal (diamond) mesh are commonly used as support or spacer between membranes and films. Their specific geometry creates channels where any fluid manages to flow much easier.

CODE	DESCRIPTION	SIZE	WEIGHT g/m <sup>2</sup>	PITCH
78039030	OS 050	1m x 100m	110g	2.6 x 1.9mm
65101100	OS 100	1m x 100m	180g	4.0 x 4.0mm
65105150	OS 101	1m x 100m	80g	4.0 x 4.0mm
65102050	OS 102	1m x 50m	415g	5.2 x 5.2mm
65103050	OS 103	1m x 50m	340g	5.2 x 5.2mm
65104100	OS 104	1m x 100m	150g	5.2 x 5.2mm
65106100	OS 105	1m x 100m	100g	4.0 x 4.0mm
Nylon (PA6) Flat Nets				
	OS 1 PA - 6	1m x 100m	140g	3.3 x 1.9mm
	OS 2 PA - 6	1m x 100m	115g	3.3 x 1.9mm
	OS 3 PA - 6	1m x 50m	180g	3.3 x 1.9mm



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## Automotive Protection and Reinforcement Nets

TENAX products go into a number of different automotive component applications. For example, light weight netting is used as support and reinforcement of industrial foams

### HPP – Homopolymer polypropylene

A Light material, resistant to chemical substances (as salts, acids and strong alkalis) and with a high mechanical strength. It is used for bi-oriented (stretched) products. Suitable for direct food contact.

### CPP – copolymer polypropylene

Slightly softer and more resistant to high temperature than the homopolymer and with similar mechanical features. Suitable for direct food contact.

### PA6 (Nylon) –Polyamide 6

It is an advanced polymer able to stand high temperatures and direct contact with oil, grease, fuel and other solvents. It shows a low friction coefficient and is resistant to abrasion, shocks and fatigue.

and textiles inside car seats, doors, dashboard and as a reinforcement layer for carpets.

Specific weight: 0.9-0.915 g/cm<sup>3</sup> (56.19-57.12 lb/ft<sup>3</sup>)  
Melting temperature: 162-168°C (323.6-334.4°F)  
Tensile strength: 34-37 MPa  
Young's modulus: 1200-2000 Pa  
Yield elongation: 5-10%  
Break elongation: 500-700%  
Working temperature: +0°C – +90°C (32°F – 194°F)  
Max working temperature (short period): +100°C (212°F)

Specific weight: 0.895-0.9 g/cm<sup>3</sup> (54.62-56.19 lb/ft<sup>3</sup>)  
Melting temperature: 135-168°C (275-334.4°F)  
Tensile strength: 25-30 MPa  
Young's modulus: 1000 Pa  
Yield elongation: 5-10%  
Break elongation: >500%  
Working temperature: -20°C – 70°C (68°F – 158°F)  
Max working temperature (short period): +80°C (176°F)

Specific weight: 1.12-1.14 g/cm<sup>3</sup> (69.91-71.16 lb/ft<sup>3</sup>)  
Melting temperature: 220-225°C (428-437°F)  
Tensile strength: 80 MPa (dry) –55 MPa (wet)  
Break elongation: 20-40% (dry) – 100% (wet)  
Working temperature: -40°C – 105°C (-40 – 221°F)  
Max working temperature (short period): 170°C (338°F)

# Terms & Conditions

## 1 INTERPRETATION

1.1 In these Conditions the following words and phrases shall have the following meanings unless the context otherwise requires:

'Buyer' means the person firm or company with whom the Contract is made and who accepts a quotation of the Company for the sale of the Goods or whose order for the Goods is accepted by the Company.

'Goods' means the goods (including any installment of the goods or any parts of them) described in the Company's quotation or Buyer's order (as the case may be) which the Company is to supply in accordance with these Conditions.

'Company' means MESH4 Ltd - registered in England & Wales under number 03444917 and shall include where the context so permits its assigns and sub-contractors.

'Company Premises' means the premises mentioned in the Company Quotation or other contractual document or, if not so mentioned means the Company's works at Ash Road, Wrexham Industrial Estate, Wrexham, LL13 9JT, U.K.

'Condition' means the standard terms and conditions of sale set out in this document and (unless the context otherwise requires) includes any special terms and conditions agreed in writing between the Buyer and the Company 'Contract' means the contract for the purchase and sale of the Goods.

'VAT' means Value Added Tax and any other like tax duty or impost.

Unless the context otherwise requires:-

1.2.1 words importing the singular shall include the plural and vice versa;

1.2.2 words importing the masculine gender shall include the feminine gender and vice versa;

1.2.3 references to persons shall include bodies of persons whether corporate or incorporate.

1.3 Unless the context otherwise requires references to clauses shall be construed as references to clauses of the Conditions.

1.4 Headings are inserted for convenience only and shall not affect the construction of interpretation of these Conditions.

## 2 BASIS OF THE SALE

2.1 The Company shall sell and the Buyer shall purchase the Goods in accordance with any written quotation of the Company which is accepted by the Buyer or any written order of the Buyer which is accepted by the Company in writing, subject to these conditions, which shall govern the Contract and be incorporated therein to the exclusion of any other terms and conditions subject to which any such quotation is accepted or purported to be accepted, or any such order is made or purported to be made, by the Buyer. Notwithstanding that the Buyer may order the Goods on its standard form of purchase order and whether or not incorporating the Buyer's own terms and conditions, any such order shall be treated solely as a request to deliver the Goods and have no other contractual effect whatsoever.

2.2 No variation to these Conditions shall be binding unless agreed in writing between the authorised representatives of the Buyer and the Company and signed by a director of the Company.

2.3 The Company's employees or agents are not authorised to make any representations concerning the goods unless confirmed by the Company in writing and signed by a director of the Company. In entering into the Contract the Buyer acknowledges that it does not rely on, and waives any claim for breach of, any such representations which are not so confirmed.

2.4 Any advice or recommendations given by the Company or its employees or agents to the Buyer or its employees or agents as to the storage, application or use of the Goods which is not confirmed in writing by the Company is followed or acted upon entirely at the Buyer's own risk, and accordingly the Company shall not be liable for any such advice or recommendation which is not so confirmed.

2.5 Any typographical, clerical or other error or omission in any sales literature, quotation, price list, acceptance of offer, invoice or other document or information issued by the Company shall be subject to correction without any liability on the part of the Company.

## 3 ORDERS AND SPECIFICATIONS

3.1 No order submitted by the Buyer shall be deemed to be accepted by the Company unless and until confirmed in writing by one of the Company's directors.

3.2 The Buyer shall be responsible to the Company for ensuring the accuracy of the terms of any order (including any applicable specification) submitted by the Buyer, and for giving the Company any necessary information relating to the Goods within a sufficient time to enable the Company to perform the Contract in accordance with its terms.

3.3 The quantity, quality and description of and any specification for the Goods shall be those set out in the Company's quotation (if accepted by the Buyer) or the Buyer's order (if accepted by the Company).

3.4 If the Goods are to be manufactured or any process is to be applied to the Goods by the Company in accordance with a specification submitted by the Buyer, the Buyer shall indemnify the Company against all loss, damages, costs and expenses awarded against or incurred by the Company in connection with or paid or agreed to be paid by the Company in settlement of any claim for infringement of any patent, copyright, design, trade mark or other industrial or intellectual property rights of any other person which results from the Company's use of the Buyer's specification.

3.5 The Company reserves the right to make any changes in the specification of the Goods which are required to conform with any applicable statutory or EC requirements which do not materially affect their quality or performance.

3.6 No quotation which has been accepted by the Buyer nor any order which has been accepted by the Company may be cancelled by the Buyer except with the agreement in writing of the Company and on terms that the Buyer shall indemnify the Company in full against all loss (including loss of profit), cost (including the cost of all labour and materials used), damages, charges and expenses incurred by the Company as a result of cancellation.

## 4 PRICE OF THE GOODS

4.1 The price for the Goods shall in absence of any written agreement between the Company and the Buyer be the Company's list price for such goods on the date the Goods are dispatched to the Buyer and are subject to alteration at any time without notice.

4.2 Notwithstanding any written agreement as to price, the Company reserves the right, by giving notice to the Buyer at any time before delivery, to increase the price of the Goods to reflect any increase in the cost to the Company which is due to any factor beyond the control of the Company (such as, without limitation, any foreign exchange fluctuation, currency regulation, alteration of duties, significant increase in the costs of labour, materials or other costs of manufacture), any change in delivery dates, quantities or specifications for the Goods which is requested by the Buyer, or any delay caused by the instructions of the Buyer to give the Company adequate information or instructions.

4.3 Except as otherwise agreed in writing between the Buyer and the Company, all prices are given by the Company on an ex works basis, and where the Company agrees to deliver the Goods otherwise than at the Company's charges for transport, packaging and insurance.

4.4 The price is exclusive of any applicable VAT, which the Buyer shall be additionally liable to pay to the Company.

## 5 TERMS OF PAYMENTS

5.1 Subject to any special terms agreed in writing between the Buyer and the Company, the Company shall be entitled to invoice the Buyer for the price of the Goods on or at any time after delivery of the Goods, notwithstanding that delivery may not have taken place and the property in the Goods has not passed to the Buyer. The time of payment of the price shall be of the essence of the Contract. Receipts for payment will be issued only upon request.

5.2 The Buyer shall pay the price of the Goods within 30 days of the date of the Company's invoice unless otherwise in writing and stated on the invoice, and the Company shall be entitled to recover the price, notwithstanding that delivery may not have taken place and the property in the Goods has not passed to the Buyer. The time of payment of the price shall be of the essence of the Contract. Receipts for payment will be issued only upon request.

5.3 If the Buyer fails to make any payment on the due date then, without prejudice to any other right or remedy available to the Company, the Company shall be entitled to:

5.3.1 cancel the contract or suspend any further deliveries to the Buyer;

5.3.2 appropriate any payment made by the Buyer to such of the Goods (or the Goods supplied under any other contract between the Buyer and the Company) as the Company may think fit (notwithstanding any purported appropriation by the Buyer);

and

5.3.3 charge the Buyer interest (both before and after any judgment) on the amount unpaid (including VAT) at the rate of three percent per annum above the base lending rate of Barclays Bank Plc from time to time from the date the amount became due for payment until payment in full is made both before and after judgement and shall be calculated on a daily basis.

## 6 DELIVERY

6.1 Any dates quoted for delivery of the Goods are approximate only and the Company shall not be liable for any delay in delivery of the Goods howsoever caused. Time for delivery shall not be of the essence unless previously agreed by the Company in writing. The Goods may be delivered by the Company in advance of the quoted delivery date upon giving reasonable notice to the Buyer.

6.2 Where the Goods are to be delivered in instalments, each delivery shall constitute a separate contract and failure by the Company to deliver any one or more of the instalments in accordance with these Conditions or any claim by the Buyer in respect of any one or more instalments shall not entitle the Buyer to treat the Contract as a whole as repudiated.

6.3 If the Company fails to deliver the Goods for any reason other than any cause beyond the Company's reasonable control or the Buyer's fault, and the Company is accordingly liable to the Buyer, the Company's liability shall be limited to the excess (if any) of the cost to the Buyer (in the cheapest available market) of similar goods to replace those not delivered over the price of the Goods.

6.4 If the Buyer fails to take delivery of the Goods or fails to give the Company adequate delivery instructions at the time stated for delivery (otherwise than by reason of the Company's fault) then, without prejudice to any other right or remedy available to the Company, the Company may:

6.4.1 store the Goods until actual delivery and charge the Buyer for the reasonable costs (including insurance) of storage; or

6.4.2 sell the Goods at the best price readily obtainable and (after deducting all reasonable storage and selling expenses) charge the Buyer for any shortfall below the price for the Goods under the Contract.

## 7 RISK AND PROPERTY

7.1 Risk of damage to or loss of the Goods shall pass to the Buyer at the time of delivery or, if the Buyer wrongfully fails to take delivery of the Goods, the time when the Company has tendered delivery of the Goods.

7.2 Notwithstanding delivery and/or the passing risk in the Goods, or any other provision of these Conditions, the property in the Goods shall not pass to the Buyer until the Company has received in cash or cleared funds payment in full of the price of the Goods and all other goods agreed to be sold by the Company to the Buyer for which payment is then due.

7.3 Until such time as the property in the Goods passes to the Buyer, the Buyer shall hold the Goods as the Company's fiduciary agent and bailee, and shall keep the Goods separate from those of the Buyer and third parties and property stored, protected, insured against loss or damage by accident, fire (theft or other risks usually covered by insurance in their full replacement value and clearly identified as the Company's property). Until that time the Buyer shall be entitled to resell or use the Goods in the ordinary course of its business, but shall account to the Company for the proceeds of sale or otherwise of the Goods, whether tangible or intangible, including insurance proceeds, and shall keep all such proceeds separate from any moneys or property of the Buyer and third parties and, in the case of tangible proceeds, properly stored, protected and insured.

7.4 Until such time as the property in the Goods passes to the Buyer (and provided the Goods are still in existence and have not been resold), the Company shall be entitled at any time to require the Buyer to deliver up the Goods to the Company and, if the Buyer fails to do so forthwith, to enter upon any premises of the Buyer or any third party where the Goods are stored and repossess the Goods.

7.5 The Buyer shall not be entitled to pledge or in any way charge by way of security for all indebtedness of the Goods which remain the property of the Company, but if the Buyer does so all moneys owing by the Buyer to the Company shall, without prejudice to any other right or remedy of the Company, forthwith become due and payable.

## 8 WARRANTIES AND LIABILITY

8.1 Subject to the conditions set out below the Company warrants that the Goods will correspond with the specification on their packaging at the time of delivery and will be free from defects in material and workmanship for a period of 12 months from the date of their delivery.

8.2 The above warranty is given by the Company subject to the following conditions:

8.2.1 The Company shall be under no liability in respect of any defect in the Goods arising from any drawing, design or specification supplied by the Buyer;

8.2.2 The Company shall be under no liability in respect of any defect arising from fair wear and tear, wilful damage, negligence, abnormal working conditions, failure to follow the Company's instructions (whether oral or in writing), misuse or alteration or repair of the Goods without the Company's approval;

8.2.3 the Company shall be under no liability under the above warranty (or any other warranty, condition or guarantee) if the total price for the Goods has not been paid by the due date for payment;

8.2.4 the above warranty does not extend to parts, materials or equipment not manufactured by the Company, in respect of which the Buyer shall only be entitled to the benefit of any such warranty or guarantee as is given by the manufacturer to the Company insofar as the Company is able to pass on the benefit of any such warranty or guarantee.

8.3 Subject as expressly provided in these Conditions, and except where the Goods are sold to a person dealing as a consumer (within the meaning of the Unfair Contract Terms Act 1977), all warranties, conditions or other terms implied by statute or common law are excluded to the fullest extent permitted by law.

8.4 Where the Goods are sold under a consumer transaction (as defined by the Consumer Transactions (Restrictions on Statements Order 1976) the statutory rights of the Buyer are not affected by these Conditions.

8.5 Any claim by the Buyer which is based on any defect in the quality or condition of the Goods or their failure to correspond with their specification must (whether or not delivery is refused by the Buyer) be notified to the Company and the courier who delivered or attempted to deliver the Goods within 3 days from the date of delivery. Any claim by the Buyer for non-delivery of the whole or any part of the consignment must be made to the Company within three days of the date of invoice. If delivery is not refused, and the Buyer does not notify the Company accordingly, the Buyer shall not be entitled to reject the Goods and the Company shall have no liability for such defect or failure, and the Buyer shall be bound to pay the price as if the Goods had been delivered in accordance with the Contract. It is the Buyer's responsibility to check all Goods immediately on delivery and any delivery notes endorsed 'unexamined' or 'unchecked' will not be accepted as a basis for any claim.

8.6 Where any valid claim is respect of any of the Goods which is based on any defect in the quality or condition of the Goods or their failure to meet their specification is notified to the Company in accordance with these Conditions, the Company shall be entitled to replace the Goods (or the part in question) free of charge or, at the Company's sole discretion, refund to the Buyer the price of the Goods (or proportionate part of the price), but the Company shall have no further liability to the Buyer.

8.7 Except in respect of death or personal injury caused by the Company's negligence, the Company shall not be liable to the Buyer by reason of any representation, or any implied warranty, condition or other term, or any duty at common law, or under the express terms of the Contract, for any consequential loss or damage (whether for loss of profit or otherwise), costs, expenses or other claims for consequential compensation whatsoever (and whether caused by the negligence of the Company, its employees or agents or otherwise) which arise out of or in connection with the supply of the Goods or their use or resale by the Buyer, except as expressly provide in these Conditions.

8.8 The Company shall not be liable to the Buyer or be deemed to be in breach of the Contract by the reason of any delay in performing, or any failure to perform, any of the Company's obligations in relation to the Goods, if the delay or failure was due to any cause beyond the Company's reasonable control. Without prejudice to the generality of the foregoing, the following shall be regarded as causes beyond the Company's reasonable control:

8.8.1 Act of God, explosion, flood, tempest, fire or accident;

8.8.2 war or threat of war, sabotage, insurrection, civil disturbance or requisition;

8.8.3 acts, restrictions, regulations, by-laws, prohibitions or measure of any kind on the part of any governmental, parliamentary or local authority;

8.8.4 import or export regulations or embargoes;

8.8.5 strikes, lock-outs or other industrial actions or a trade disputes (whether involving employees of the Company or of a third party);

8.8.6 difficulties in obtaining raw materials, labour, fuel, parts or machinery;

8.8.7 power failure or breakdown in machinery.

## 9 INSOLVENCY OF BUYER

9.1 This clause applies if:

9.1.1 the Buyer makes any voluntary arrangement with its creditors or becomes subject to an administration order or (being an individual or firm) becomes bankrupt or (being a company) goes into liquidation; or

9.1.2 an encumbrance takes possession, or a receiver is appointed, of any of the property or assets of the Buyer; or

9.1.3 the Buyer ceases, or threatens to cease, to carry on business; or

9.1.4 the Buyer reasonably apprehends that any of the events mentioned above is about to occur in relation to the Buyer and notifies the Company accordingly.

9.2 If this clause applies then, without prejudice to any other right or remedy available to the Company, the Company shall be entitled to cancel the Contract or suspend any further deliveries under the Contract without any liability to the Buyer, and if the Goods have been delivered but not paid for the price shall become immediately due and payable notwithstanding any previous agreement or arrangement to the contrary.

## 10 RETURNS

10.1 The Buyer shall not be entitled to return any goods supplied in accordance with the Contract without the Company's prior written permission signed by a director for the Company and all Goods which are so returned shall be sent to the Company Premises at the expense of the Buyer.

A 20% restocking charge may apply.

## 11 GENERAL

11.1 The Company may perform any of its obligation or exercise any of its rights hereunder by itself or through any subsidiaries, associated companies, agent or sub-contractors.

11.2 Any notice required or permitted to be given by either party to the other under these Conditions shall be in writing addressed to that other party at its registered office or principal place of business or such other address as may at the relevant time have been notified pursuant to an making specific reference to this provision to the party giving the notice.

11.3 No waiver by the Company of any breach of the Contract by the Buyer shall be considered as a waiver of any subsequent breach of the same or any other provision.

11.4 If any provision of these Conditions is held by any competent authority to be invalid or unenforceable in whole or in part it shall be severed herefrom and the validity of the other provisions of these Conditions and the remainder of the provision in question shall not be affected thereby.

11.5 The Contract shall be governed by the laws of England and the parties hereto submit to the non-exclusive jurisdiction of the English Courts.







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