

ESD CONTROL



ERGONOMIC BENEFITS



PATENTED TECHNOLOGY



MODULAR DESIGN



DURABLE RECYCLED MATERIALS



5 YEAR WARRANTY



WORKMATT



ESD

 Milagon®



Work Matta ESD (electrostatic dissipative) flooring is used world-wide, in a variety of industries – from telecommunications to aerospace and engineering – where guaranteed ESD protection of sensitive electrical components and other high-tech products during the manufacturing process is critical.

INTRODUCING MATTa PRODUCTS LIMITED

THE SPECIALISTS IN SAFETY SURFACING SOLUTIONS

Matta Products is a world leader in the innovation, design and manufacture of high quality, ergonomic, safety surfacing solutions for industrial and commercial environments as well as for playground, sport and recreational venues.

Matta Products has built its international reputation by creating products of consistent quality and durability, with proven health and safety benefits that are also made from environmentally friendly recycled materials.

PROTECTION AT WORK AND PLAY

Health and safety regulations worldwide have required that businesses and communities become more pro-active in the utilization of products that are proven to significantly reduce the risk of personal injury while at work or play.

Matta has answered the challenge by taking a ground-up approach, designing a high quality, cost-effective product that disperses and cushions a person's body weight, thereby reducing discomfort and fatigue.

A FLOOR ABOVE THE FLOOR

The Matta concept – “A Floor Above the Floor” – is the result of extensive research and development to design a specialized safety surface system with scientifically proven ergonomic and health benefits. Matta's flooring tiles incorporate a unique understructure of “compression columns” which act as springs when weight is applied to the surface of the tile to counter the negative effects of impact or standing for prolonged periods. This ergonomic concept has been shown to significantly increase user comfort.

MATTa PRODUCT RANGE

In addition to our specialist Work Matta ESD flooring Matta Products has also developed and manufactures a wide range of ergonomic safety surfacing tiles for a variety of business and recreational uses such as those for: heavy commercial and industrial applications; playgrounds and specialized impact reduction systems; hygiene sensitive situations; office and domestic areas; marine and outdoor environments; anti-slip and property protection applications and more.

WORK MATTA ESD™

MATTA FLOORING SOLUTIONS

Matta Products is proud to present the Work Matta ESD modular flooring system. Work Matta ESD is the complete safety surfacing solution designed with features that protect your business in more ways than one:

WORK MATTA ESD™ BENEFITS

- M** Guaranteed ESD (electrostatic dissipative) control
- M** Unique design with ergonomic benefits
- M** Workplace safety advantages
- M** Reliable & patented grounding option
- M** Interlocking tiles for reliable resistivity
- M** Modular system – simple to adapt & install
- M** Environmentally friendly recycled materials
- M** Durable PVC – low maintenance & easy to clean
- M** Matta 5 year warranty

THE MATTA ERGONOMIC “FAMILIES”

Matta has created three unique “Families” of ergonomic interlocking tiles with different grades of compressibility, giving you the flexibility to choose a customized safety flooring surface configured to suit the specific requirements of your business.

Firm

COMFORT

low-compression
heavy-duty industrial



Mid-grade

EXCEL

mid-compression
industrial/commercial



Soft

ERGO

high-compression
commercial

Each of these Family lines comes in a variety of styles and options for our specialized range of Work Matta ESD.

WORK MATTA ESD

Diamond Shield tread

Comfort

✓

Excel

–

Ergo

✓

Smooth Top surface

✓

–

–

ShockPocket tread

–

✓

–

Carpet Top

✓

–

–

Work Matta ESD tile options pictured from top: Comfort Diamond Shield; Comfort Smooth Top; Comfort Carpet Top; Excel Shock Pocket; Ergo Diamond Shield.

ABOUT ESD

Static electricity is created when two objects touch or slide against each other, then separate, resulting in the transfer of electrons. Feet or furniture contacting and leaving the floor is a common cause in the workplace. The resulting imbalance of electrons is called an electrostatic charge which remains latent on an object until it can discharge to another object of opposite polarity – creating an ESD event.

An ESD event, often too small to be detected by a human, can damage or even destroy sensitive electronic components.

ESD damage can be categorized in two ways:

- **catastrophic failure**

resulting in the immediate destruction of an item

- **latent defect**

resulting in a reduced life-expectancy of an item

Both types of damage can have serious financial impacts on businesses through increased quality-control failure rates for catastrophic events, and consumer product warranty claims for latent defects.

Specialized Work Matta ESD flooring is designed to dissipate or neutralize electrostatic charges safely, and should be a primary component of any program designed to minimize the threat of ESD events in the workplace.

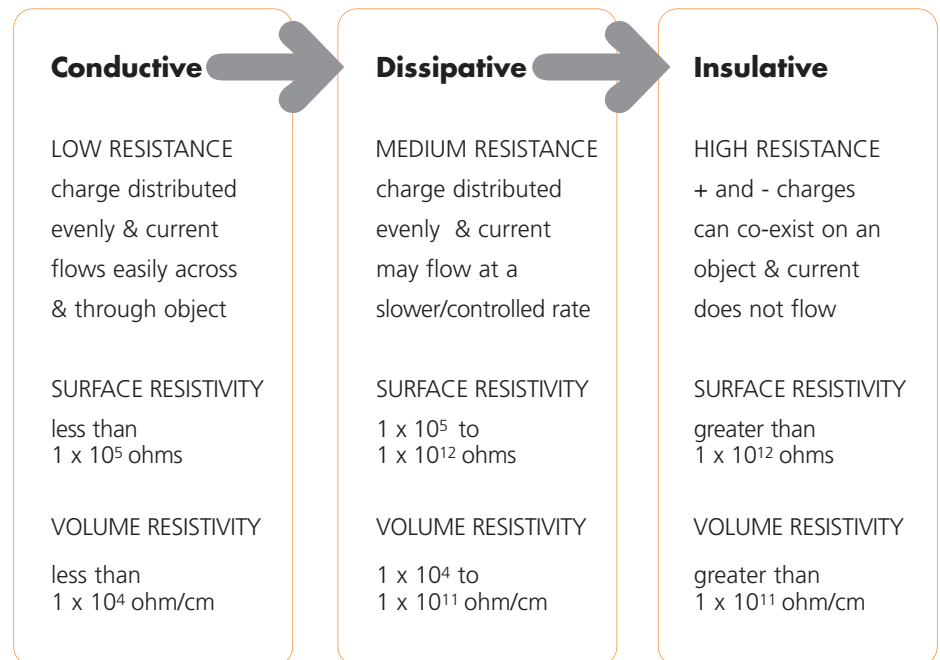
WORK MATTA ESD™

IDEAL DISSIPATIVE RESISTIVITY RANGE

Uncontrolled discharge of electrostatic potentials – ESD – is a major concern for manufacturers and assemblers of electronic products. Effective, reliable ESD control can generate significant cost savings and production efficiencies.

Work Matta ESD mats are designed to safely dissipate or neutralize electrostatic charges, when used in conjunction with other common ESD control items such as footwear, wrist straps and grounding cords. Work Matta ESD mats also give the added benefits of a high quality, ergonomic, workplace flooring surface.

The electric conductivity of any object can be categorised along the following ranges of resistivity:



Each Work Matta ESD tile is guaranteed to be within the resistivity range 1.0×10^6 to 5.0×10^8 ohms

WORK MATTA ESD™ SPECIFICATIONS

Work Matta ESD flooring is highly effective because it is manufactured to be within narrow parameters on the conductive/insulative spectrum. Matta Products guarantees that Work Matta ESD mats operate in the ideal dissipative range – with surface resistivity between two points (RTT) of 1.0×10^6 to 5.0×10^8 ohms – because Matta's strict quality control regime tests and certifies every single mat.

The results of this testing are recorded and filed on a batch-by-batch basis and are made available to customers purchasing 250 or more units.

WORK MATTA ESD™

QUALITY CONTROL

TESTED AND ACCURATE

Matta Products prides itself in producing quality products designed to endure in the harshest environments. Our highly specialized Work Matta ESD tiles undergo stringent testing under the US Standard ANSI/ESD S.7.1 (American National Standard approved in 1994).

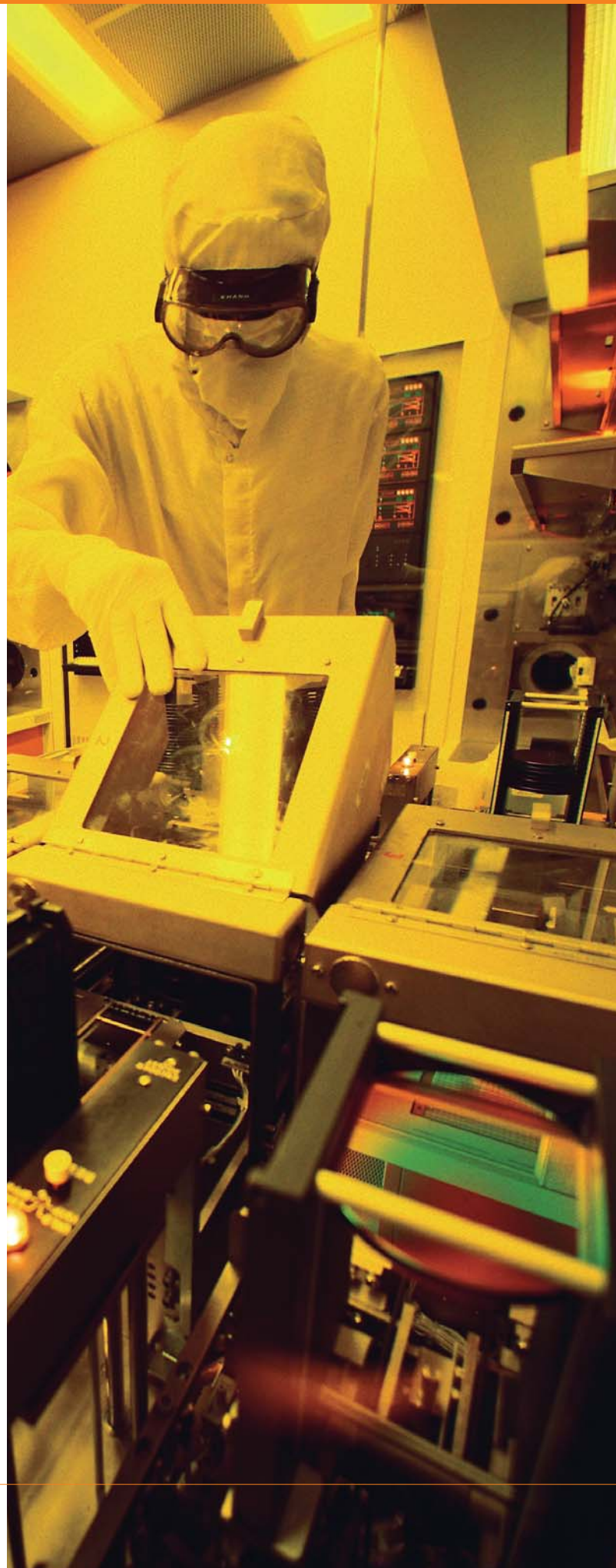
CUSTOMIZED APPLICATIONS

Matta Products recognizes that there are times when our standard range of safety surfacing may not meet certain individual requirements.

For this reason we can create Work Matta ESD flooring to suit your specific needs – whether using special additives to counter environmental factors, adapting manufacturing processes to achieve particular ESD and technical outcomes or making tiles with specific ergonomic compression values.

The manufacture of non-standard Work Matta ESD safety surfacing is based on minimum order requirements.

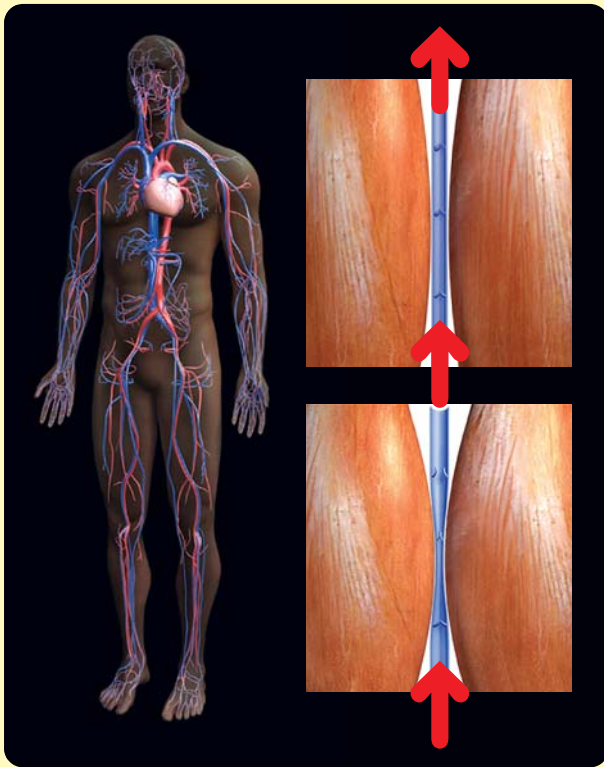
Talk to your local Matta Products representative about creating a customized Work Matta ESD solution for any specialized needs you may have.



WHY ERGONOMICS IS IMPORTANT

Oxygenated blood is pumped by the heart through arteries to our body, which uses the oxygen as fuel. The blood then returns, via the veins, to our heart and lungs for 'refueling' and the process begins again with re-circulation of oxygenated blood through the arteries. Blood pressure and the normal contracting and relaxing of muscles around veins as we move, facilitates the return journey of blood through the one-way valve system in veins. This process can be inhibited when we have to stand on a hard surface or our movement is restricted for prolonged periods, leading to fatigue and discomfort.

Matta ergonomic flooring is designed to help counter this negative effect.



Below: the network of Compression Columns that help deliver the primary ergonomic function of Work Matta ESD

WORK MATTA ESD™ ERGONOMIC BENEFITS

At Matta we realize that you can purchase anti-fatigue flooring or ESD control matting from many supply outlets, but none offer the double-duty performance of Work Matta ESD.

With two functions in one mat Work Matta ESD is unique, offering certified ESD control PLUS scientifically proven ergonomic health and safety benefits, while delivering outstanding durability and value.

The results of extensive, rigorous and controlled testing by a team of independent ergonomists and human physiology specialists at Massey University in New Zealand, show that the Matta range of safety surface flooring significantly reduces the perception of discomfort in the legs and lower backs of people standing for extended periods of time.

All Matta tiles utilize a unique "compression column" construction specifically designed to encourage proper body alignment while promoting a calculated degree of movement or "sway". This almost imperceptible motion stimulates the muscles and promotes efficient circulation of blood through the veins – especially in the legs – which is key to preventing worker fatigue and discomfort.

THE MATTA ERGONOMIC "FAMILIES" OF SAFETY SURFACING

Work Matta ESD tiles are available in three grades of compressibility with varying degrees of ergonomic "sway":

- **Comfort** low compression (firm)
- **Excel** mid-grade compression
- **Ergo** high compression (soft)



WORK MATTA ESD™

MORE ON COMFORT

THE INDUSTRIAL PROTECTION SURFACE

The low-compression **Comfort** range is structurally robust and is capable of tolerating the heavy loads and harsh conditions associated with industrial environments.

Comfort tiles are available with a range of surface options. The Diamond Shield closed-surface provides excellent anti-slip properties while the Smooth Top surface is ideally suited to debris-sensitive areas that need to be easily cleaned. **Comfort** is also available in a special ESD carpet tile surface where an office-type environment may be preferred. **Comfort** compatible safety ramp edging, in matching black or high visibility yellow, ensures a safer transition to and from the Work Matta area. **Comfort** is designed to provide a safe, comfortable area for people in industrial environments who are required to stand for long periods of time.

COMFORT

SUMMARY OF FEATURES

- M** Heavy duty – strong & robust
- M** Ergonomic compression column benefits
- M** Patented grounding option for ESD applications
- M** Surface options:
Carpet Top comfort;
Smooth Top easy clean;
Diamond Shield anti-slip
- M** Excellent sound dampening qualities
- M** Arrow Lock modular interlocking system



WORK MATTA ESD™

MORE ON EXCEL

COMMERCIAL SAFETY SURFACE

Excel mid-compression tiles are the safety flooring solution for the heavy to light-industrial and commercial markets. **Excel** can be used to create an attractive and healthy environment for workers and customers alike. **Excel** closed top tiles feature Matta Products' Shock Pocket surface design, which helps to deaden shock and increases tile compression, a must for workers who are required to stand in static positions for extended periods of time.

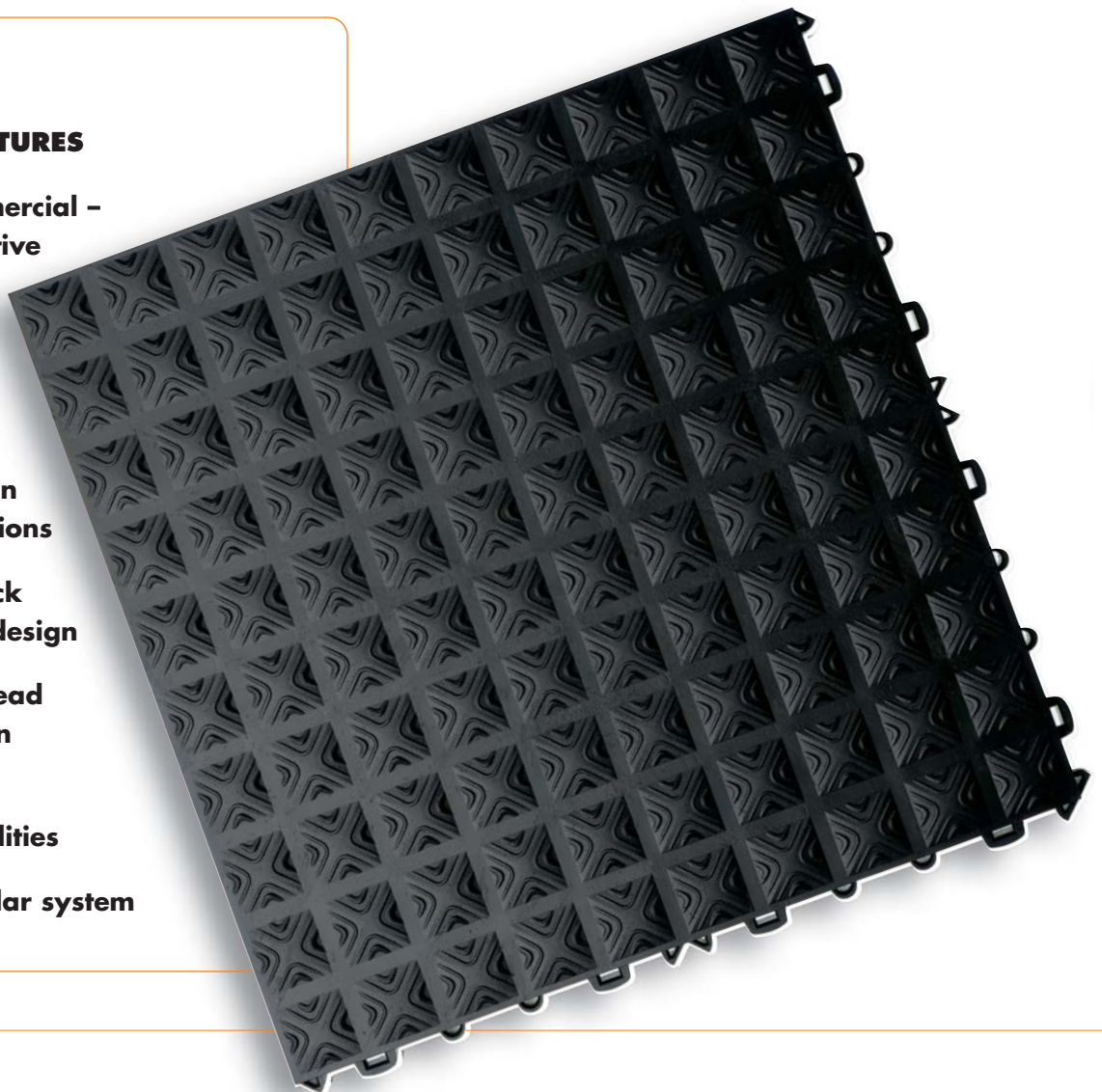
The pronounced ridges of the **Excel** "Shock Pocket" surface also give it good traction for areas where sure footing is important.

Excel compatible safety ramp edging, in matching black or high visibility yellow, ensures a safer transition to and from the Work Matta area. **Excel** tiles incorporate Flex Lock, the interlocking system that ensures stability even in extreme conditions.

EXCEL

SUMMARY OF FEATURES

-  **Industrial/commercial – robust & protective**
-  **Ergonomic compression column benefits**
-  **Patented grounding option for ESD applications**
-  **Specialized Shock Pocket surface design**
-  **Shock Pocket tread for good traction**
-  **Excellent sound dampening qualities**
-  **Flex Lock modular system**



WORK MATTA ESD™

MORE ON ERGO

VERSATILE PROTECTION SURFACE

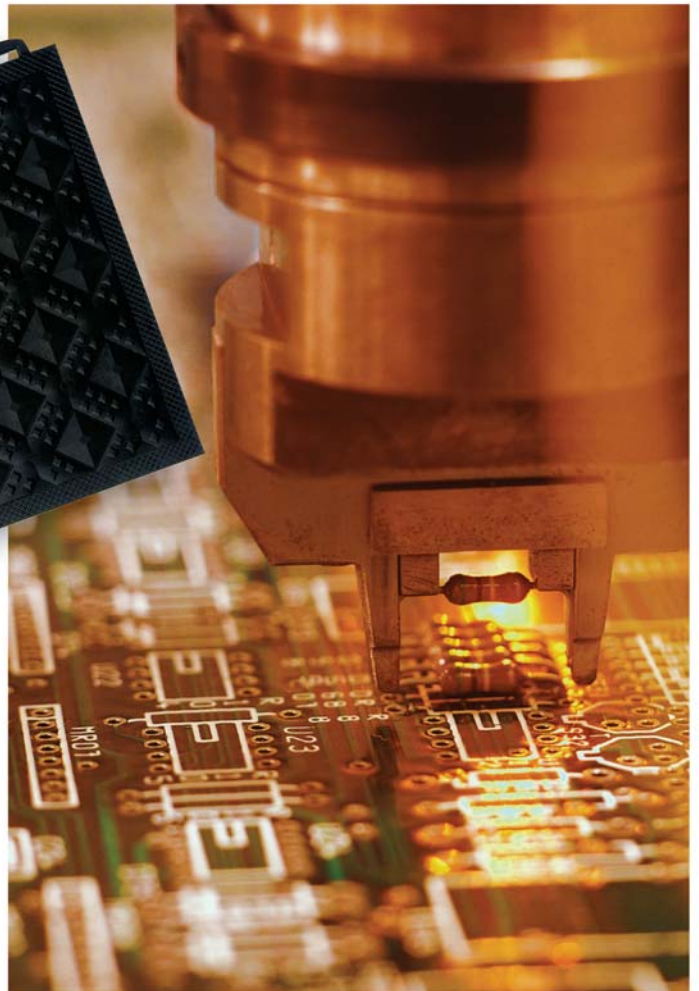
High-compression **Ergo** tiles provide a stable surface in high foot traffic situations. Being half the depth and half the width of regular Work Matta tiles, they are extremely versatile and can be easily installed in configurations to suit most applications.

The low profile of the **Ergo** tile and **Ergo** compatible safety ramp edging – available in black or high visibility yellow – makes it safe and easy to enter and exit the Work Matta “Floor Above the Floor” area. **Ergo** closed surface tiles are the perfect safety flooring solution for environments where function and style are high priorities. **Ergo**’s Diamond Shield closed-surface tile provides excellent anti-slip properties and is also ideally suited to areas that need to be easily cleaned. The EZ-Snap interlocking system of the **Ergo** range makes installation and removal, if required, simple.

ERGO

SUMMARY OF FEATURES

- M Commercial – protective & versatile**
- M Smaller rectangular tile dimensions**
- M Ergonomic compression column benefits**
- M Patented ESD grounding option**
- M Diamond Shield anti-slip safety surface**
- M Excellent sound dampening qualities**
- M EZ-Snap modular interlocking system**



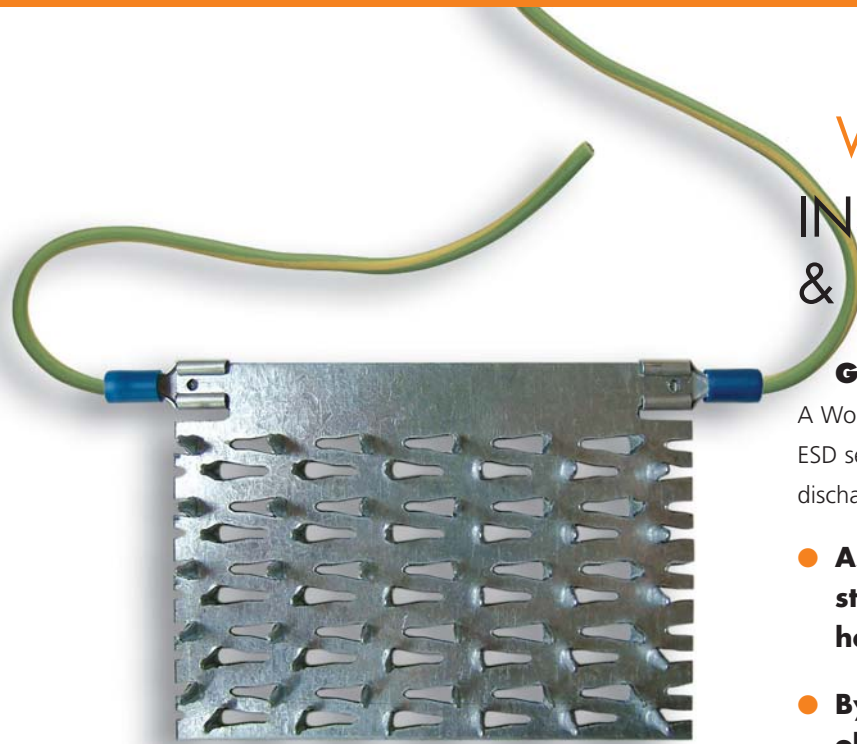
WORK MATTA ESD™

INSTALLATION & MAINTENANCE

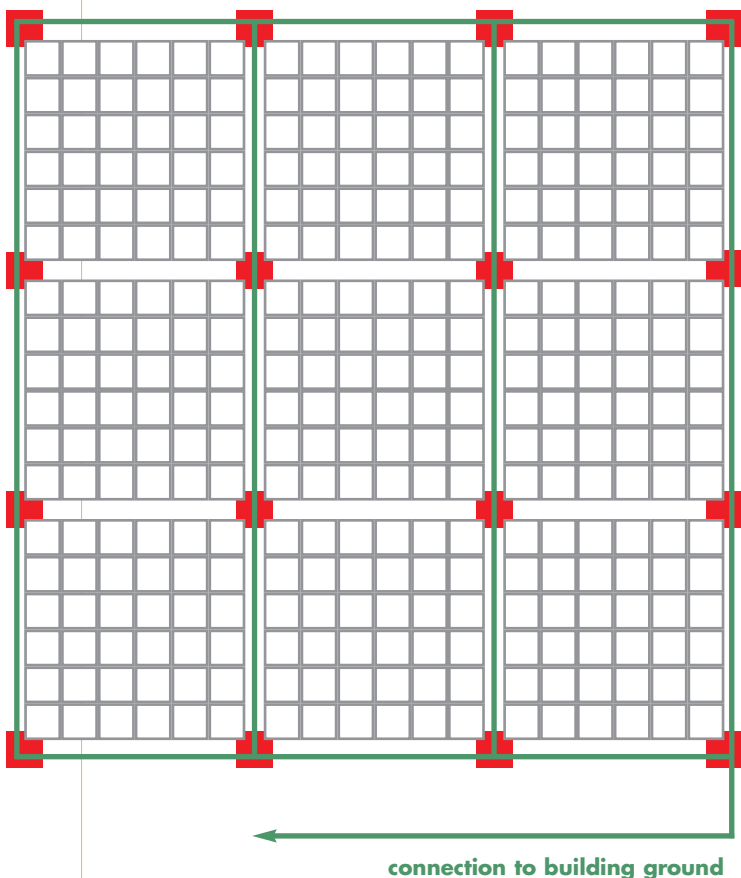
GENERAL GUIDELINES

A Work Matta ESD work surface will provide protection to ESD sensitive components and assemblies from electrostatic discharge in two ways:

- **As an anti-static area that will not allow static electricity to be generated at potentially hazardous levels.**
- **By removing the charge from a conductive object placed on the surface.**



Matta Grounding Plate System



Work Matta ESD should always be installed by a qualified or technically competent person.

Consideration needs to be given to the level of conductivity of the existing surface on which Work Matta ESD will be positioned as it may affect the levels of resistivity achieved by the tiles.

Proper cleaning and maintenance as well as ongoing ESD dissipative checks of the installation must also be completed at regular intervals to insure the continued effectiveness of the Work Matta ESD surface.

GROUNDING OPTIONS

For proper and safe grounding an ESD mat must be linked directly to, and at the same potential as, the building's ground or "green wire" – an ESD common point ground terminal is essential.

There are several types of grounding methods to choose from, including the patented Matta Grounding Plate System which is ideally suited to the modular, interlocking design of Work Matta ESD.

Patented Multi-connection Matta Grounding Plate System

Matta Grounding Plates with 'male' connectors are laid under the mats at intervals of six mats – plates can attach at the 'crossroads' or vertices of four mats – and must then be connected, with grounding wire and female connectors, to an grounding point in the building. The grounding connection can be a single point attached to one of the 'network' of plates, or each plate can be individually attached to the ground.

WORK MATTA ESD™

EASY CLEANING

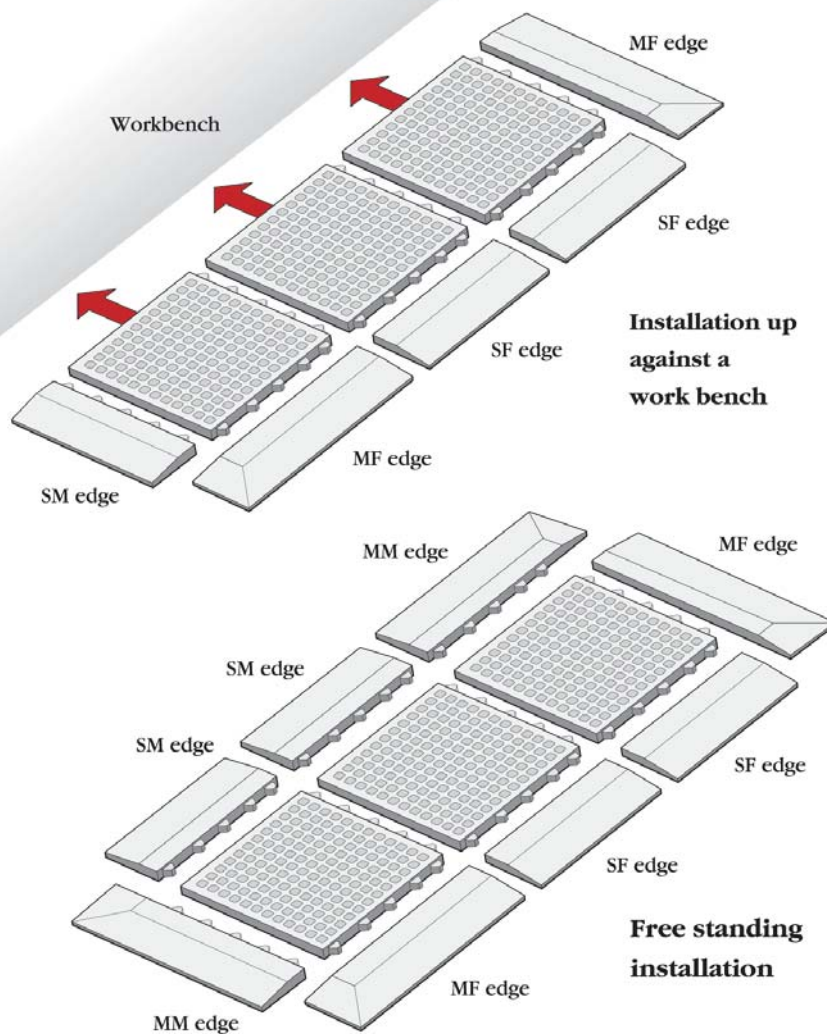
Work Matta ESD safety flooring is easy to clean and maintain. A mixture of 30% distilled water and 70% isopropyl alcohol in a spray container effectively removes any dirt from the tile surface. Simply apply and wipe with a clean cotton cloth that has been well laundered, without fabric softener, before use.

While all tiles in the Work Matta ESD range are easy to clean, we recommend Work Matta ESD Comfort Smooth Top for situations when the maintenance of a dust-free environment is important.

MODULAR DESIGN

Work Matta safety flooring systems are simple to install as well as being adaptable.

Modular tiles can easily be configured to suit a wide variety of applications.



SAFETY CONSCIOUS & FUNCTIONAL STYLING

The professional look and functional safety of any Work Matta "Floor Above the Floor" installation is completed with a selection of interchangeable, safety ramp edging that easily locks into the modular tiles.

Work Matta safety ramp edging comes as a male or female modular fitting with straight or mitred ends to suit any configuration (see diagram below left). The standard edging is available in matching black or high visibility yellow colour options.



Tidy away wires & cabling

The Compression Column sub-structure of Work Matta will accommodate a myriad of wiring and other commercial cabling that is needed in most work environments. The wiring remains easily accessible under the Work Matta tiles and, importantly, work areas are kept tidy and safe.



PIONEERING RECYCLING TECHNOLOGY

Matta Products believes it has a role, as a responsible manufacturer, to actively promote and optimize recycling systems for all our resourcing and manufacturing processes.

As a company we are committed to creating superior products which protect people and their property, as well as the environment we all share.

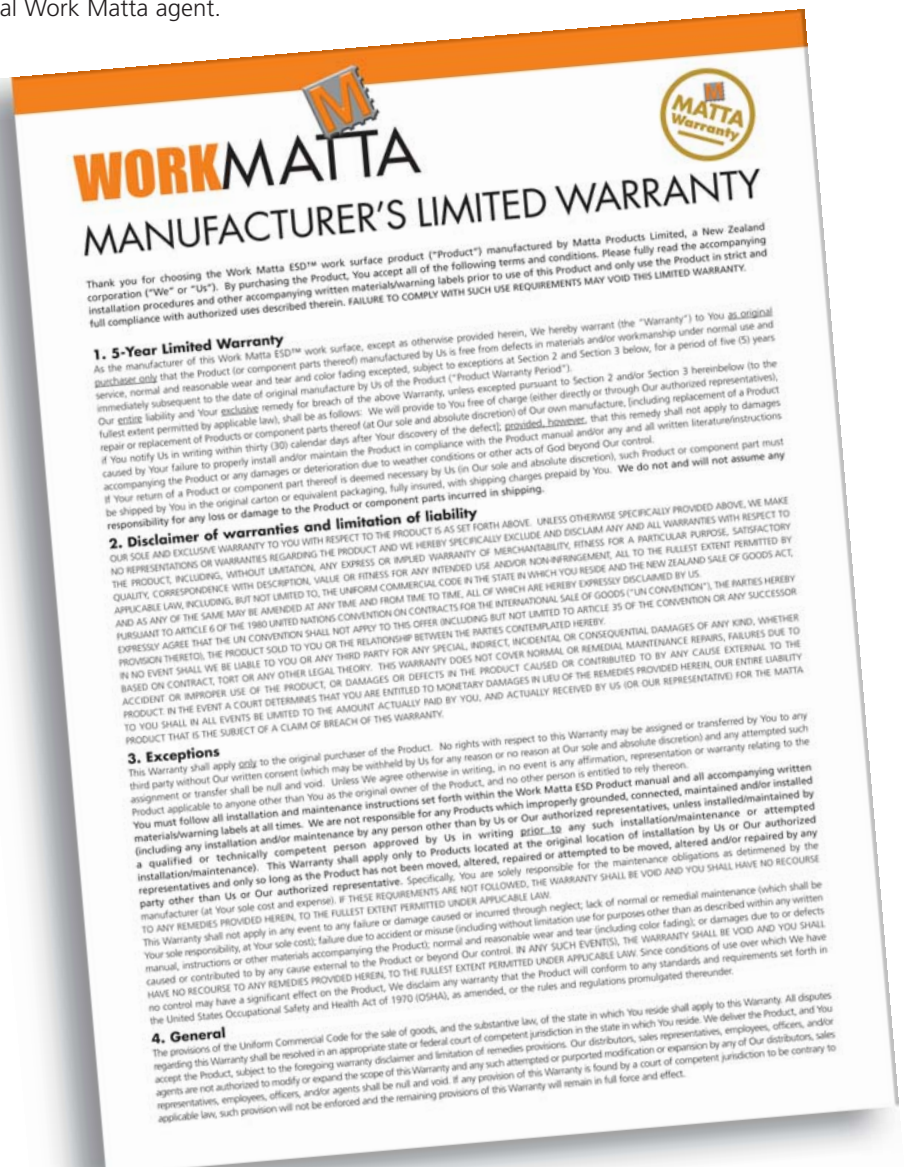
Over 90% of Matta products are made from materials recovered from the waste-cycle stream using our innovative and patented recycling technology.

In using recycled materials, we are not only reducing waste but also conserving energy and reducing the greenhouse gases involved in manufacturing virgin materials. Because recycling is a core value on which Matta Products has built its business we have invested in a dedicated Research & Development department which is continually working to improve our recycling technology. We utilize plastic, tires and other waste from around the world, and give it new life as a range of durable, high quality safety flooring products that we are proud to put our name on.



WORK MATTA ESD™ PRODUCT WARRANTY

Matta Products Limited, a New Zealand corporation, is proud to provide a Limited 5 (five) Year Manufacturer's Warranty against faulty manufacture of the Work Matta ESD tiles and edging materials. To validate the Matta Warranty, Work Matta ESD tiles must be installed by a qualified technician who will ground the mats then test and record static dissipative discharge levels. Proper maintenance and ongoing ESD dissipative checks of the Work Matta ESD installation must also be completed at regular intervals. These test results must also be available to Matta Products Limited at the time of any claim against the Warranty. The Matta Warranty applies to Work Matta products and does not include installation. For full details and conditions of the Matta Warranty please refer to our website at www.workmatta.com or contact your local Work Matta agent.



WORK MATTA ESD™

FEATURE SUMMARY

ESD CONTROL

PLUS ERGONOMIC BENEFITS

The unique Compression Column design of Matta tiles means Work Matta ESD works for you in two ways by combining exceptional and proven ergonomic benefits with guaranteed ESD protection.

PATENTED GROUNDING TECHNOLOGY

There are several types of grounding methods suitable for use with Work Matta ESD including the patented Matta Grounding Plate System.

FUNCTIONAL & ADAPTABLE MODULAR DESIGN

The interlocking design of the Work Matta ESD mats is simple to install and very adaptable while achieving a close-fitting join between mats that enhances inter-conductivity.

Grounding wiring and other commercial cabling can be easily accommodated under the Work Matta ESD "Floor above the Floor" while still remaining accessible.

DURABLE & ROBUST RECYCLED MATERIALS

High quality, environmentally friendly Matta safety flooring products are made from materials that have been recovered from the waste-cycle stream, using Matta's pioneering recycling technology. The unique Work Matta ESD design and robust injection-molded construction is extremely durable and easy to keep clean.

ESD CONTROL



ERGONOMIC BENEFITS



PATENTED GROUNDING TECHNOLOGY



MODULAR DESIGN



DURABLE RECYCLED MATERIALS



5 YEAR WARRANTY



WORK MATTA ESD



WORK MATTA ESD™

ESD	product type	code black option
Comfort	Smooth Top	IA003128V101-E-
Comfort	Diamond Shield	IA003103V101-E-
Comfort	Carpet light grey	IA003107V101-EC123
Comfort	Carpet dark grey	IA003107V101-EC124
Comfort	edge ramp sm	IA006112V101---
Comfort	edge ramp sf	IA006113V101---
Comfort	edge ramp mm	IA006114V101---
Comfort	edge ramp mf	IA006115V101---
Excel	Shock Pocket	IA004108V101-E-
Excel	edge ramp sm	IA008120V101---
Excel	edge ramp sf	IA008121V101---
Excel	edge ramp mm	IA008122V101---
Excel	edge ramp mf	IA008123V101---
Ergo	Diamond Shield	IA005110V101-E-
Ergo	edge ramp sm	IA007118V101---
Ergo	edge ramp sf	IA007119V101---
Ergo	edge ramp mm	IA007116V101---
Ergo	edge ramp mf	IA007117V101---
Additional	75mm ramp pin	IA009125V101---
Additional	ramp hole caps	IACAP101V101---
Additional	grounding plate	IAGPSS008

SPECIFICATIONS

code yellow option	weight		dimensions		height		modular lug system	friction average co-efficient	esd dissapitive
	grams	(lb + oz)	width x length millimetres	(inches)	millimetres	(inches)			
	3500	(7lb 10oz)	500 x 500	(20 x 20")	25	(1")	5 lugs	wet 35 / dry 92	✓
	3500	(7lb 10oz)	500 x 500	(20 x 20")	25	(1")	5 lugs	wet 35 / dry 92	✓
	2600	(5lb 11oz)	500 x 500	(20 x 20")	25	(1")	5 lugs	wet 60 / dry 82	✓
	2600	(5lb 11oz)	500 x 500	(20 x 20")	25	(1")	5 lugs	wet 60 / dry 82	✓
	425	(1lb)	100 x 500	(4 x 20")	25	(1")	5 lugs		
IA006112V108---	482	(1lb 1oz)	100 x 500	(4 x 20")	25	(1")	5 lugs		
IA006113V108---	575	(1lb 4oz)	100 x 600	(4 x 24")	25	(1")	5 lugs		
IA006114V108---	500	(1lb 2oz)	100 x 600	(4 x 24")	25	(1")	5 lugs		
	2850	(6lb 4oz)	500 x 500	(20 x 20")	25	(1")	12 lugs	wet 60 / dry 82	✓
	425	(1lb)	100 x 500	(4 x 20")	25	(1")	12 lugs		
IA008120V108---	482	(1lb 1oz)	100 x 500	(4 x 20")	25	(1")	12 lugs		
IA008121V108---	575	(1lb 4oz)	100 x 600	(4 x 24")	25	(1")	12 lugs		
IA008122V108---	500	(1lb 2oz)	100 x 600	(4 x 24")	25	(1")	12 lugs		
	850	(1lb 14oz)	250 x 500	(10 x 20")	15	(5/8")	6 lugs	wet 29 / dry 73	✓
	250	(9oz)	60 x 500	(2 x 20")	15	(5/8")	6 lugs		
IA007118V108---	250	(9oz)	60 x 500	(2 x 20")	15	(5/8")	6 lugs		
IA007119V108---	250	(9oz)	60 x 560	(2 x 22")	15	(5/8")	6 lugs		
IA007116V108---	250	(9oz)	60 x 560	(2 x 22")	15	(5/8")	6 lugs		
IA007117V108---									
	-		75 Ø head	(3")					
	-		11 Ø	(3/8")					
	20	(3/4oz)	70 x 70	(23/4")					

**Available through an
authorized Milagon Distributor**



3115 Frenchmens Rd. Toledo, OH 43607

PH: (800) 889-4049, FX: (419) 578-2274

sales.milagon@nss.com

www.milagon.com



**Matta Products has built an international reputation by manufacturing
high value products of consistent quality and durability, with proven health and safety benefits,
made from environmentally friendly recycled materials. www.workmatta.com**

