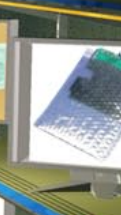
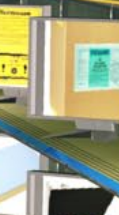
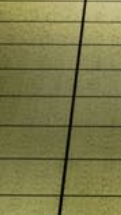
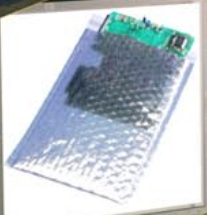


Over a 100 NEW
items inside!

protected

precautions for
electrostatic
sensitive devices



Vermason

ESD Product Guide



Made in America



Made in Britain



Vermason: The Specialists in ESD Protection

Introduction

Vermason is a manufacturer of ESD protection products and was founded in Letchworth in 1979. In April 2007 Desco Industries, Inc. of Chino California acquired 100% of the shares of Vermason Ltd. Vermason is now a division of Desco Industries, Inc.

Today, Vermason is engaged in producing a wide range of ESD products in our 2000 square metre factory in Letchworth, United Kingdom.

Use Vermason static control products to improve quality and throughput. According to EN 61340-5-2 "Where no ESD handling precautions are taken, a high proportion of electronic apparatus failure can be attributed to ESD damage. The figure could in theory be reduced to zero by adopting the precautions described in EN 61340-5-1 in all areas".

Several sewing machines help make heel grounders, field service kits and other sewn items. The far end of the factory is home to several light assembly processes such as crimpers, insert moulding machines, riveting presses and ultrasonic welders. They are used to make wristbands, coiled cords, and earth bonding points amongst others. The injection moulding presses make various products such as earth bonding point boxes and plug cases. The bag making machines are used to make black conductive, pink and bubble shielding bags. The computer-controlled mat cutting machine can cut mats and boards up to 12m long and 2m wide. In an especially made ESD protected area, test and monitor products such as resistance indicators, wrist strap testers and constant monitors are assembled and traceable to UKAS. Vermason's development engineers have designed many of our products and the processes needed to manufacture them.

We can also provide training to ESD technicians and perform field surveys of premises. Vermason products are designed to comply with the requirements of EN 61340-5 and ANSI/ESD S20.20.

In the UK, ESD users are served directly or by a network of [distributors](#). In other countries we sell through [distributors](#).

Click [Here](#) to watch our Power Point Presentation.

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We welcome visitors to our modern production plant in the UK

See us live! Click [HERE](#).

Products shown in this catalog are covered by one or more of the following patents:
5,568,351; 5,677,822; 5,786,977; 5,951,337; 6,052,053; 6,078,875; 6,137,670; 6,205,408





LIMITED WARRANTY

GUARANTEE: We guarantee our products are of the highest quality and meet all appropriate industry standards. Vermason wants you to be confident with each product we produce. We make every effort to see to it that our products are of the highest quality and meet all appropriate recognized industry standards. Since we cannot guarantee that all products are applicable to all situations and that the data we provide from many sources is reliable and accurate for all situations, our lawyers want you to know that...

All statements, technical data, and recommendations contained herein are based upon tests we believe to be reliable. However, the accuracy or completeness thereof is not guaranteed. The proper and correct application of products and data is the responsibility of the user. The following is made in lieu of all warranties, expressed or implied:

Vermason's only obligation shall be to replace such quantity of the product proved to be defective. Vermason shall not be liable for any injury, loss, or damage, direct or consequential, arising out of the use of or the inability to use the product. Before using, users shall determine the suitability of the product for their intended use, and users assume all risk and liability whatsoever in connection therewith.

No statement or recommendation not contained herein shall have any force or effect unless embodied in a written agreement signed by authorized officers of Vermason.

ESD Product Range

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ESD WRISTBAND SELECTION CHART

Vermason Wrist Straps - Designed for Europe

Per EN 61340-5-2: "Where no ESD handling precautions are taken, a high proportion of electronic apparatus failure can be attributed to ESD damage. Discharges of static electricity from conductors or charged insulators cause melting and evaporation of fine tracks on integrated circuit chips. In addition, electric fields from charged conductors and insulators causing electrical breakdown on insulation between features on integrated circuits. This figure could in theory be reduced to zero by adopting the precautions described in EN 61340-5-1." In Part 5.2, Scope 1.1 it is noted that "damage from human contact is still the most common source even in today's automated society."

Per EN 61340-5-2 paragraph 5.2.7: "Wrist Strap describes the combination of the wrist band, which should fit around the wrist making good skin contact, and the wrist cord which bonds the wearer to an earth bonding point (EBP)"; paragraph 5.2.4 states that personal grounding via a Wrist Strap to an EBP should be used as the primary means of grounding.

However, the safety of users is paramount and Wrist Straps and other grounding devices should not be used if there is possible exposure to electrical voltages in excess of 250 V a.c. 500 V d.c. See the Ioniser section (page 37) as a means to neutralise electrostatic charges.

Fulfilling paragraph 5.1.1 EN 61340-5-2, In the event an operator comes in contact with the normal mains electricity supplies, a one megohm resistor is used in Vermason Wrist Straps to limit the current flowing through the person to less than 0,5 mA.

In addition, other Vermason Wrist Strap safety features conforming with EN 61340-5-2 are:

- "The ground cord should release with a force of between 5 N and 25 N (0.51kg and 2.55 kg), preferably at the wrist band end."
- "The outer visible surface of the wristband should not be highly conductive (metallic)."
- "The discrete resistance must be at the wrist end of the wrist cord" (paragraph 5.3.4).
- "The resistor style should be such that in the event of a failure of the resistor, the failure mode is to open circuit."

Environmental Type

Band	Field Service	Standard Industrial	Critical
Metal	X	X	X
Elastic	X	X	
Disposable	X	X (visitors)	

Single-Wire

Wristband	Jewel Elastic MagSnaps	Elastic Adjustable Wristbands	Service Engineer's Wristband	Adjustable Metal Wristband	Anti-allergenic Adjustable Fabric Wristband	Disposable Wristbands
Band Material	Silver impregnated elastic nylon	Elasticated fabric with conductive fibres on inside	Expandable metal	Expandable metal	Polyester with conductive fibre on inside	Polyester non-woven fabric
Coil Cord	MagSnap / Banana Plug	4mm / 10mm Stud	10mm Stud	4mm / 10mm Stud	10mm Stud	N/A
Closure Type	Patented cam-lock	Friction-Grip	N/A	N/A	Cam-lock	Custom Fit
Other Feature	Replaceable band	Replaceable blue band	Improved durability	Improved durability	Anti-allergenic	Non-Marking, No Residue Adhesive
Color	Black / Grey	Yellow / Red / Light Blue / Dark Blue	Black	Black	Yellow / Red / Light Blue / Dark Blue	Grey
Part Numbers	229903 - 229908	229700 - 229830	229625	229605 - 229620	229600 - 229770	229851

Dual-Wire

Wristband	Jewel Cloth Dual-Wire MagSnap Wristbands	Jewel Metal Dual-Wire MagSnaps	Jewel Dual Wire Wriststrap with Metal Wristband	Jewel Dual Wire Wriststrap with Adjustable Elastic Wristband
Band Material	Woven Silveron™ fabric infused with monofilament conductive fiber	Expandable metal	Fixed Metal Band	Woven Silveron™ fabric infused with monofilament conductive fiber
Coil Cord	MagSnap	MagSnap	4mm / Angle	4mm / Angle
Closure Type	Cam-lock opposite buckle	N/A	N/A	Locking Clasp
Other Feature	Adjustable	Superior skin contact	Superior skin contact	Eliminates exposed conductive "tail" of band
Color	Dark Blue	Black	Onyx	Dark Blue / Onyx
Part Numbers	229923 - 229925	229926 - 229934	229946 - 229954	229940 - 229942

See our products being Made in America on our web site: Desco.com/Factory





ESD COIL CORD SELECTION CHART

Single-Wire

Dual-Wire

Coil Cords	Jewel Single MagSnap	Standard Coil Cord	Coil Cords with Angled Plug	Jewel MagSnap Dual-Wire	Jewel Dual Wire Coil Cord
Termination	MagSnap / straight banana	Socket /Stud, Socket/Socket, Socket/Plug	Socket / Angled Plug	MagSnap / right angle banana 3.5mm phono plug	Snap / right angle banana 3.5mm phono plug
Other Feature	Relaxed retraction	Rapid Retraction	Rapid Retraction	Compatible w/ 3M & other brand continuous monitors	Superior resistor connection strain relief
Length (Meters)	1.8, 3.7, 6.1	1, 2, 3, 6	1.8	1.8, 3.7, 6.1	1.8, 3.7, 6.1
Color	Black	Black, Yellow, Blue	Black	Black	Black
Part Numbers	229900 - 229902	230105 - 230330	230290 - 230295	229920 - 229922	229943 - 229945

Vermason Wrist Cords - Designed for Europe

Vermason Wrist Cords provide reliable electrical connections and are a necessary component of a successful ESD control programme. Without cords, wrist bands, smocks, and gloves are completely ineffective. Wrist bands, smocks, and gloves must be connected to ground via a wrist cord in order for them to function properly. Vermason Wrist Cords are the best investment you can make in setting up your complete ESD protected workstation.

Our premium rapid retraction blue wrist cords feature high memory and less dragging on the worksurface. Their superior strain relief design has passed 27,500,000 cycles, tested per industry Bending Life Test. This exceeds over 1,700 times the minimum requirement. Our superior design eliminates intermittent failures that can occur with less durable single and dual wire cord designs.

Our cords also feature patented* spring supported contour banana plugs. See details below. In addition, spring loaded snaps provide consistent electrical contact and maintain consistent release force with the wrist strap stud per EN 61340-5-2.

Finally, our premium cords are manufactured in America, at our Chino, California facility, ensuring consistent top quality products.

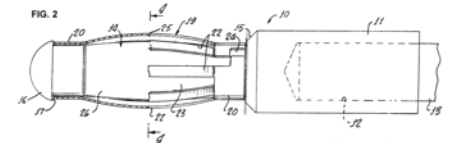


All Vermason Premium Cords Have The Following Features & Benefits:

- Superior banana plugs with patented supported spring contour; Fits into all standard banana jacks 3.98mm ID.
- Greater retention force; cords won't fall out and put your parts at risk; Provides long life, saving money.
- Spring loaded 4mm or 10mm stainless steel constant contact snap; provides constant electrical contact.
- Tensile strength at each end in excess of 13.6 kg (approx. 136 Newton); longer lasting cord saves money.
- One megohm series resistor at wrist end to protect operator from accidental contact with equipment line voltage; fulfills Paragraph 5.1.1 of EN 61340-5-2.
- Premium coil cords designed and manufactured at our Chino, CA, USA factory; made in America under our control, ensuring consistent top quality.
- UL listed; assured safety and integrity.
- Date coded; lot traceability.

Patented* Banana Plug Will Resist Abuse

Vermason's premium wrist cords feature a contoured supported spring banana



plug design (see illustration at right). Collapsing springs on banana plugs are the number one reason for failed coil cords. Our patented design* resists banana spring collapse by preventing the spring from travelling beyond its limit to return. When a banana spring collapses, it loses its ability to make good contact with a banana jack. Under extreme abuse conditions, the banana plug will fall out of the jack under minimal pull force. The new banana plugs will maintain a disengagement force of equal to or greater than .5 Kg of disengagement force over the life of the cord. They fit into all standard banana jacks 3.98mm.

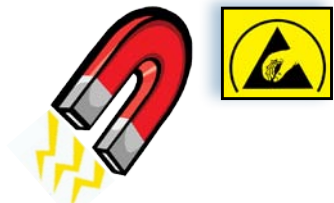
*U.S. Patent 5951337

Available with all Jewel® Magsnap Adjustable and Metal Wrist Strap Cords. [See page 6.](#)



See our products being Made in Britain on our web site: [Click Here](#)

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Revolutionary Magnetic Interconnect Technology

Meets EN 61340-5-1 including breakaway force test (.45 - 2.3 kg)

Jewel® MAGSNAP ADJUSTABLE ELASTIC AND METAL WRIST STRAPS

- Magnetic connection between wristband and coiled cord
- More reliable design, no moving parts to wear out
- Superior strain relief with lifetime guarantee; tests in excess of 1,000,000 cycles - eliminates intermittent failures
- Made in America

Part No.	Description
229903	Elastic Band Only, 4mm
229904	Elastic Band with 1.8m Cord, 4mm
229905	Elastic Band with 3.7m Cord, 4mm
229906	Metal Band Only, 4mm
229907	Metal Band with 1.8m Cord, 4mm
229908	Metal Band with 3.7m Cord, 4mm
229900	1.8m Coiled Cord Only, 4mm
229901	3.7m Coiled Cord Only, 4mm
229902	6.1m Coiled Cord Only, 4mm

Download Technical Drawings [229900](#), [229903](#), and [229906](#) and Technical Bulletin [TB-7504](#)



Made in the USA

Jewel® MAGSNAP DUAL-WIRE WRIST STRAPS WITH ADJUSTABLE ELASTIC WRISTBAND AND FIXED SIZED METAL WRISTBAND

- Magnetic connection between wristband and cord
- Patented (US patents 6,052,053 and 6,205,408) Dual Wire Wrist Strap provides redundancy - if one dual wire wrist strap conductor is severed, operator still has reliable path-to-ground with other wire
- Superior strain relief with lifetime guarantee - tests in excess of 1,000,000 cycles - eliminates intermittent failures
- Meets EN 61340-5-1 including breakaway force test (.45 - 2.3 kg)
- Made in America

Part No.	Description
229923	Elastic Band Only, 4mm
229924	Elastic Band with 1.8m Cord, Angle, 4mm
229925	Elastic Band with 3.7m Cord, Angle, 4mm
229928	Metal Band Only, 4mm, Small
229927	Metal Band Only, 4mm, Medium
229926	Metal Band Only, 4mm, Large
229931	Metal Band with 1.8m Cord, Angle, 4mm, Small
229934	Metal Band with 3.7m Cord, Angle, 4mm, Small
229930	Metal Band with 1.8m Cord, Angle, 4mm, Medium
229933	Metal Band with 3.7m Cord, Angle, 4mm, Medium
229929	Metal Band with 1.8m Cord, Angle, 4mm, Large
229932	Metal Band with 3.7m Cord, Angle, 4mm, Large
229920	1.8m Coiled Cord Only, Angle, 4mm
229921	3.7m Coiled Cord Only, Angle, 4mm
229922	6.1m Coiled Cord Only, Angle, 4mm

Download Technical Drawings [229920](#), [229923](#), and [229926](#) and Technical Bulletin [TB-7504](#)



Revolutionary Magnetic Interconnect Technology



Metal band does not pinch or pull hair!



Jewel® DUAL WIRE WRISTSTRAP WITH METAL WRISTBAND

- Patented (US patents 6,052,053 and 6,205,408)
Dual Wire Wrist Strap provides redundancy
- Use with resistive loop technology continuous monitor
- Solid stainless steel wrist band 4mm stud machined to exacting tolerances and precise profile
- Durable metal band
- Made in America

Part No. Description

- [229951](#) Small, Onyx Metal Band with 1.8m Cord, 4mm
- [229950](#) Medium, Onyx Metal Band with 1.8m Cord, 4mm
- [229949](#) Large, Onyx Metal Band with 1.8m Cord, 4mm
- [229954](#) Small, Onyx Metal Band with 3.65m Cord, 4mm
- [229953](#) Medium, Onyx Metal Band with 3.65m Cord, 4mm
- [229952](#) Large, Onyx Metal Band with 3.65m Cord, 4mm
- [229948](#) Small, Onyx Metal Band Only
- [229947](#) Medium, Onyx Metal Band Only
- [229946](#) Large, Onyx Metal Band Only



229950

Jewel® DUAL WIRE WRISTSTRAP WITH ADJUSTABLE ELASTIC WRISTBAND

- Patented (US patents 6,052,053 and 6,205,408)
Dual Wire Wrist Strap provides redundancy
- Use with resistive loop technology continuous monitor
- Durable, lightweight fabric
- Has silver impregnated nylon knitted on inside for superior conductivity
- Made in America

Part No. Description

- [229940](#) Onyx Elastic 4mm Snap Wristband Only
- [229941](#) Onyx Elastic Wristband with 1.8m Cord, 4mm Snap / Angle
- [229942](#) Onyx Elastic Wristband with 3.65m Cord, 4mm Snap / Angle



229941

SERVICE ENGINEER'S WRIST STRAP

- Recommended for field engineers because of durability
- Long lasting; can be worn and removed many times without losing its elasticity
- Adjustable and re-adjustable; no loose links
- Made in Britain and America

Part No. Description

- [229625](#) Adjustable Metal Wrist Strap, 10mm Socket, 4mm Plug
- [225703](#) Crocodile Clip, Insulated, Black

Note: All wrist strap kits with plugs include alligator clip.

Download [Technical Drawings 230115](#) and [Technical Bulletin TB-7504](#)



229625



See our products being Made in Britain on our web site: [Click Here](#)



ADJUSTABLE ELASTIC WRIST STRAP

- No metal to skin contact, choice for those with skin allergies
- Widely adjustable, elasticated fabric band
- Resistance of one Megohm (1x10E6 ohms) built in to every socket
- Made in Britain

Part No.	Description
229700	Wristband Only, 4mm, Dark Blue
229710	Wristband Only, 4mm, Light Blue
229715	Wristband Only, 4mm, Red
229725	Wristband Only, 4mm, Yellow
229705	Wristband Only, 4mm, Blue, Pack of 100
229720	Wristband Only, 4mm, Red, Pack of 100
229730	Wristband Only, 4mm, Yellow, Pack of 100
229740	Wristband Only, 10mm, Dark Blue
229750	Wristband Only, 10mm, Light Blue
229755	Wristband Only, 10mm, Red
229765	Wristband Only, 10mm, Yellow
229745	Wristband Only, 10mm, Blue, Pack of 100
229760	Wristband Only, 10mm, Red, Pack of 100
229770	Wristband Only, 10mm, Yellow, Pack of 100
229775	Wrist Strap, Dark Blue / Coiled Cord, 2m, Yellow, 4mm Socket, 4mm Plug
229785	Wrist Strap, Red / Coiled Cord, 2m, Black, 4mm Socket, 4mm Plug
229790	Wrist Strap, Yellow / Coiled Cord, 2m, Yellow, 4mm Socket, 4mm Plug
229795	Wrist Strap, Dark Blue / Coiled Cord, 2m, Yellow, 10mm Socket, 4mm Plug
229800	Wrist Strap, Light Blue / Coiled Cord, 2m, Light Blue, 10mm Socket, 4mm Plug
229805	Wrist Strap, Red / Coiled Cord, 2m, Black, 10mm Socket, 4mm Plug
229810	Wrist Strap, Yellow / Coiled Cord, 2m, Yellow, 10mm Socket, 4mm Plug
229815	Wrist Strap, Dark Blue / Coiled Cord, 2m, Yellow, 10mm Socket, 10mm Socket
229825	Wrist Strap, Red / Coiled Cord, 2m, Black, 10mm Socket, 10mm Socket
229830	Wrist Strap, Yellow / Coiled Cord, 2m, Yellow, 10mm Socket, 10mm Socket
225703	Crocodile Clip, Insulated, Black



No exposed tail and no metal-on-skin contact



229795

For comfortable fit



229710



229755



229725

Note: All wrist strap kits with plugs include crocodile clip.

Download Technical Drawings [229700](#) and [229740](#) and Technical Bulletin [TB-7504](#)

ADJUSTABLE FABRIC WRISTBAND

- Versatile; metal back or plastic back
- Metal helps contact to dry skin - insert plastic cover if there are metal-on-skin allergy issues
- Adjustable band to suit wrist circumference of 130mm to 180mm
- 10mm stud connector only
- Import

Part No.	Description
229600	Adjustable Fabric Wristband, 10mm, Blue
229601	Adjustable Fabric Wristband, 4mm, Blue

Download Technical Drawing [229600](#) and Technical Bulletin [TB-7504](#)



229600



Plastic Cap Prevents Metal-on-Skin Allergy Issues



See our products being Made in America on our web site: Desco.com/Factory





ADJUSTABLE METAL WRISTBAND

- High quality stainless steel band made in America and assembled in United Kingdom
- Long lasting; washable
- Fully adjustable and re-adjustable; no loose links
- Adjustable: 195mm to 245mm circumference
- Made in Britain and America

Metal bands do not pinch or pull hair!



Part No.	Description
229615	Adjustable Metal Wristband, 4mm Stud
229610	Adjustable Metal Wristband, 4mm Stud, XL
229620	Adjustable Metal Wristband, 10mm Stud
229605	Adjustable Metal Wristband, 10mm Stud, XL
225703	Crocodile Clip, Insulated, Black

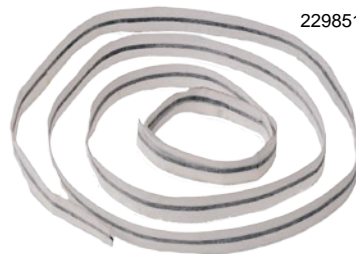
Download Technical Drawings [229615](#) and [229620](#) and Technical Bulletin [TB-7504](#)

DISPOSABLE WRIST STRAP

- Grounds Operator in Accordance with EN 61340-5-1
- 150cm Long Strap

Part No.	Description
229851	Disposable Wrist Strap

Download Technical Drawing [229851](#)



TIP!
Use constant monitors to verify that the operator is continuously grounded.
See pages [52](#)

COILED CORDS WITH ANGLED PLUG

- Right angled plug protrudes less, less likely to be bent or snagged
- 2mm diameter cord with black polyurethane insulation
- 1 Megohm (1x10E6 ohms) resistor built in to socket

Part No.	Description
230290	1.8m Coiled Cord, 10mm Socket / 4mm Angled Male Plug
230295	1.8m Coiled Cord, 4mm Socket / 4mm Angled Male Plug

Download Technical Drawing [230290](#) and Technical Bulletin [TB-7504](#)



Right angle banana jack minimizes snagging and accidental disconnect

REZTORE ESD HAND LOTION

- When using wrist straps, ESD gloves, or ESD footwear, dissipative formulation creates a superior path to ground; Rp 10E6 ohms
- Special ESD formulation for the electronic manufacturing environment; will not insulate skin like regular lotions
- Enriched with aloe vera
- Made in America

Part No.	Description
229630	Reztores ESD Hand Lotion, 235 ml

Download Technical Bulletin [TB-7046](#)



NEW!



See our products being Made in Britain on our web site: [Click Here](#)

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E-mail: Service@Vermason.co.uk • Web: Vermason.co.uk



COILED CORDS

- 2.5mm polyurethane insulation
- Conductor is high strength 7-end duplex tinsel for strength and flexibility
- 1 Megohm (1x10E6 ohms) current limiting resistor built in each socket; no resistor in 4mm plug
- Made in Britain

Part No.	Description
230105	1m Coiled Cord, 4mm Socket / 4mm Plug, Black
230110	1m Coiled Cord, 4mm Socket / 4mm Plug, Black, no resistor
230155	2m Coiled Cord, 4mm Socket / 4mm Plug, Black
230170	2m Coiled Cord, 4mm Socket / 4mm Plug, Yellow
230115	1m Coiled Cord, 10mm Socket / 4mm Plug, Black
230175	2m Coiled Cord, 10mm Socket / 4mm Plug, Black
230200	2m Coiled Cord, 10mm Socket / 4mm Plug, Black, no resistor
230180	2m Coiled Cord, 10mm Socket / 4mm Plug, Black, 2.2 meg
230205	2m Coiled Cord, 10mm Socket / 4mm Plug, Yellow
230220	2m Coiled Cord, 10mm Socket / 4mm Plug, Yellow, no resistor
230210	2m Coiled Cord, 10mm Socket / 4mm Plug, Yellow, 2.2 meg
230300	3m Coiled Cord, 10mm Socket / 4mm Plug, Black
230305	3m Coiled Cord, 10mm Socket / 4mm Plug, Black, no resistor
230340	6m Coiled Cord, 10mm Socket / 4mm Plug, Blue
230145	1m Coiled Cord, 10mm Socket / 4mm Socket, Black
230260	2m Coiled Cord, 10mm Socket / 4mm Socket, Black
230270	2m Coiled Cord, 10mm Socket / 4mm Socket, Yellow
230120	1m Coiled Cord, 10mm Socket / 10mm Socket, Black
230125	1m Coiled Cord, 10mm Socket / 10mm Socket, Black, no resistor
230130	1m Coiled Cord, 10mm Socket / 10mm Socket, Yellow
230140	1m Coiled Cord, 10mm Socket / 10mm Socket, Yellow, no resistor
230135	1m Coiled Cord, 10mm Socket / 10mm Socket, Yellow, 2.2 meg
230225	2m Coiled Cord, 10mm Socket / 10mm Socket, Black
230240	2m Coiled Cord, 10mm Socket / 10mm Socket, Black, no resistor
230230	2m Coiled Cord, 10mm Socket / 10mm Socket, Black, 2.2 meg
230245	2m Coiled Cord, 10mm Socket / 10mm Socket, Yellow
230255	2m Coiled Cord, 10mm Socket / 10mm Socket, Yellow, no resistor
230250	2m Coiled Cord, 10mm Socket / 10mm Socket, Yellow, 2.2 meg
230235	2m Coiled Cord, 10mm Socket / 10mm Socket, Blue
230310	3m Coiled Cord, 10mm Socket / 10mm Socket, Black
230350	6m Coiled Cord, 10mm Socket / 10mm Socket, Blue
230275	2m Coiled Cord, 10mm Socket / 10mm Stud, Black
230280	2m Coiled Cord, 4mm Socket / 10mm Stud, Black
230330	3m Coiled Cord, 4mm Socket / 10mm Stud, Black

Download Technical Drawings [230105](#), [230115](#), [230120](#), [230145](#), [230275](#), and [230280](#) and Technical Bulletin [TB-7504](#)

Jewel® DUAL WIRE COIL CORD

- Meets EN 61340-5-1 Personel Grounding Limit
- Dual Wire Coil Cord provides redundancy
- Use with resistive loop technology continuous monitor
- Superior resistor connection strain relief
- Made in America

Part No.	Description
229943	1.8m Cord, 4mm Snap / Angle
229944	3.65m Cord, 4mm Snap / Angle
229945	6.1m Cord, 4mm Snap / Angle

CLIP TO FIT 4MM PL

Part No.	Description
225703	Crocodile Clip, Insulated, Black

Download Technical Bulletin [TB-7504](#)



225703



230155



230235



230270



229943

TIP!

Use coiled cords for connecting wristbands to ESD Protected Area (EPA) earth bonding point (EBP).

Use straight cords for connecting bench mats or floor mats to EPA earth bonding point (EBP). [See page 24](#)

See our products being
Made in America
on our web site:

Desco.com/Factory





FOOT GRINDER SELECTION CHART

All Vermason Foot Grinders are suitable as ESD footwear component in Person/footwear/flooring system meeting EN 61340-5-1 limit of 3.5×10^7ohms tested per Clause A.2 and RoHS compliant.

All Vermason Foot Grinders (except Disposable Heel Grinder) are:

- Manufactured with abrasion resistant 10E5-10E6 ohm rubber
- Tear Resistant Rubber with Inner Scrim
- UL listed, Underwriters Laboratory # 90P1
- Marked with ESD protective symbol, manufacturer's name, and date coded
- Made in America or Made in America or Britain

Foot Grinder	Full Coverage	Heel Grinder with Velcro® Straps	Heel Grinder with Elastic Back and Velcro® Straps	Heel Grinder with Elastic Straps and Clip Fastener	Toe Grinder with Stretchable Velcro®	Disposable	Wescorp Foot Grinders	Standard Foot Grinders
Grinder Type	Foot	Heel	Heel	Heel	Toe	Heel	Toe / Heel	Toe / Heel
Resistor Value	1 megohm	No resistor 1 megohm	1 megohm	1 megohm	No resistor / 1 megohm	No Resistor	1 megohm	1 megohm
Closure Type / Style	Elastic Retention	Velcro® Straps	Elastic Back and Velcro® Straps	Elastic Straps and Clip Fastener	Velcro® Straps	Adhesive Seal	Snap-loc fastener	Hook and loop fastener
Rubber Description	Abrasion Resistant 3-Layer Rubber	Abrasion Resistant 2-Layer Rubber	Abrasion Resistant 2-Layer Rubber	Abrasion Resistant 2-Layer Rubber	Abrasion Resistant 2-Layer Rubber	N/A	Abrasion Resistant 2-Layer Rubber	Abrasion Resistant 2-Layer Rubber
Special Feature	Class 0; reduced charge on person	Economical Model	Comfortable and Lightweight	Comfortable and does not require daily readjustment	Shoes with raised heels	One time use, ideal for visitors	Durable / Long Lasting	Always in Stock
Colour	Yellow	Black with Yellow, Blue, Green, or Pink	Black and Purple with Blue or Green	Purple and Black	Blue and Purple	Black and Yellow	Black and White	Blue and Black
Non-marring	Floor and Shoes	Shoes	Shoes	Shoes	Shoes	Shoes	Shoes	Shoes
Reversible	Yes	Yes	Yes	Yes	No	No		
Size	Small, Medium, Large, XLarge	One Size Fits All	One Size Fits All	One Size Fits All	One Size Fits All	One Size Fits All	One Size Fits All	One Size Fits All
Part Numbers	249250 - 249253	248500 - 248570	248650 - 248670	248675 - 248690	248695 - 248715	249200 - 249220	249265 - 249266	249260 - 249261

Vermason Foot Grinders - Designed for Europe

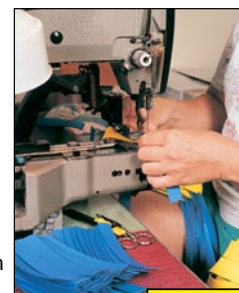
Per EN 61340-5-2 paragraph 5.2.8, footwear should be used "where personnel are mobile, in storing areas, operating large machinery, etc., it may be impractical or dangerous to have long cords attached to them." They must be used with an ESD protected floor (such as properly grounded ESD floor finish, carpet tiles, or floor mats) to provide a continuous electrical path from the user directly to the ESD ground. Foot grinders provide a ground path from the moisture layer on the wearer's skin through socks and via the conductive tab and dissipative rubber to the dissipative or conductive floor surface.

Accepted industry standards dictate that foot grinders be worn on both feet to ensure that one foot is always in contact with the floor at all times. It is important that personnel are instructed in the proper use and maintenance of foot grinders, especially the necessity of placing the grounding tab between the foot and shoe. Download Technical Bulletin [PPE-5006.E](#) from www.Vermason.co.uk for details.

Look for many of our items which utilise an industrial dual layer rubber with an inner scrim. This produces exceptionally tear resistant foot grinders and provides long life, saving you money.

Vermason foot grinders are made in our Rochester, New Hampshire, USA factory. Manufacturing our products ensures our high quality standards. This also gives us the ability to make custom foot grinders. Just call Customer Service for a quote!

All Vermason foot grinders, when used with an ESD protected floor, fulfill the requirements of EN 61340-5-1.



See our products being Made in Britain on our web site: [Click Here](#)

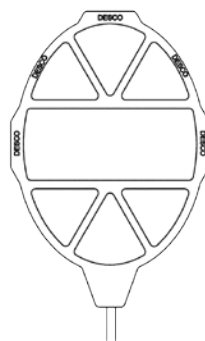
Unit C, 4th Dimension, Fourth Avenue, Letchworth, Hertfordshire, SG6 2TD, United Kingdom
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E-mail: Service@Vermason.co.uk • Web: Vermason.co.uk



FULL COVERAGE FOOT GROUNDERS

NEW!

- Contact points on foot's sole and heel area; charge generation is generally lower than conventional heel straps due to the continuous path to ground throughout walking motion. Click [HERE](#) for full report from Affinity Static Control Consulting LLC.
- Unique design requires no fastening system
- Neoprene rubber with no exposed carbon
- One Megohm series resistor
- Made in America



Part No.	Description
249250	Full-Coverage Non-Marking Foot Grounder, Small
249251	Full-Coverage Non-Marking Foot Grounder, Medium
249252	Full-Coverage Non-Marking Foot Grounder, Large
249253	Full-Coverage Non-Marking Foot Grounder, X-Large

Download Technical Bulletin [249250](#)

Non-marking



HEEL GROUNDER WITH ELASTIC STRAPS AND CLIP FASTENER

- Fits gently on the foot, has broad appeal
- Clip avoids daily re-adjustment
- 1 Megohm (1 x 10E6 ohms) current limiting resistor; heavy duty external molded resistor
- Blue strap only
- Made in America

Part No.	Description
248685	Heel Grounder, 1 Megohm (1x10E6 ohms) resistor, Bag of 1
248675	Heel Grounder, 1 Megohm (1x10E6 ohms) resistor, Bag of 2
248690	Heel Grounder, 1 Megohm (1x10E6 ohms) resistor, Bag of 10
248680	Heel Grounder, 1 Megohm (1x10E6 ohms) resistor, Bag of 25

Download Technical Drawing [248685](#) and Technical Bulletin [TB-7515](#)



TOE GROUNDER WITH STRETCHABLE VELCRO®

- Both width and length are adjustable
- 1 Megohm (1 x 10E6 ohms) current limiting resistor
- Fits women's shoes
- Blue strap only
- Made in Britain

Part No.	Description
248710	Toe Grounder, 1 Megohm (1x10E6 ohms) resistor, Small, Bag of 1
248700	Toe Grounder, 1 Megohm (1x10E6 ohms) resistor, Small, Bag of 2
248715	Toe Grounder, 1 Megohm (1x10E6 ohms) resistor, Small, Bag of 10
248705	Toe Grounder, 1 Megohm (1x10E6 ohms) resistor, Small, Bag of 25
248695	Toe Grounder, No resistor, Small, Bag of 2

Download Technical Drawing [248710](#) and Technical Bulletin [TB-7515](#)





HEEL GRINDER WITH VELCRO® STRAPS

- Economical model
- Double heel cup made of abrasion resistant neoprene
- Straps are hook and loop Velcro®; hook is 10cm long, loop is 36cm
- Made in Britain

Part No. Description

248500	Heel Grinder, no resistor, Yellow Straps, Bag of 2
248510	Heel Grinder, no resistor, Yellow Straps, Bag of 10
248505	Heel Grinder, not resistor, Yellow Straps, Bag of 25
248565	Heel Grinder, 1 Megohm (1x10E6 ohms) resistor, Yellow Straps, Bag of 1
248555	Heel Grinder, 1 Megohm (1x10E6 ohms) resistor, Yellow Straps, Bag of 2
248570	Heel Grinder, 1 Megohm (1x10E6 ohms) resistor, Yellow Straps, Bag of 10
248560	Heel Grinder, 1 Megohm (1x10E6 ohms) resistor, Yellow Straps, Bag of 25
248520	Heel Grinder, 1 Megohm (1x10E6 ohms) resistor, Blue Straps, Bag of 2
248530	Heel Grinder, 1 Megohm (1x10E6 ohms) resistor, Blue Straps, Bag of 10
248525	Heel Grinder, 1 Megohm (1x10E6 ohms) resistor, Blue Straps, Bag of 25
248535	Heel Grinder, 1 Megohm (1x10E6 ohms) resistor, Green Straps, Bag of 2
248540	Heel Grinder, 1 Megohm (1x10E6 ohms) resistor, Pink Straps, Bag of 2
248550	Heel Grinder, 1 Megohm (1x10E6 ohms) resistor, Pink Straps, Bag of 10
248545	Heel Grinder, 1 Megohm (1x10E6 ohms) resistor, Pink Straps, Bag of 25

Download Technical Drawing [248500](#) and Technical Bulletin [TB-7515](#)

HEEL GRINDER WITH ELASTIC BACK AND VELCRO® STRAP

- Comfortable, light, less bulky
- 1 Megohm (1 x 10E6 ohms) current limiting resistor; heavy duty external molded resistor
- Straps are hook and loop Velcro®; hook is 10cm long, loop is 36cm
- Two wear surfaces; doubles the life of the heel grinder
- Available in multiple attractive colors
- Made in Britain

Part No. Description

248660	Heel Grinder, 1 Megohm (1x10E6 ohms) resistor, Blue Straps, Bag of 1
248650	Heel Grinder, 1 Megohm (1x10E6 ohms) resistor, Blue Straps, Bag of 2
248665	Heel Grinder, 1 Megohm (1x10E6 ohms) resistor, Blue Straps, Bag of 10
248655	Heel Grinder, 1 Megohm (1x10E6 ohms) resistor, Blue Straps, Bag of 25
248670	Heel Grinder, 1 Megohm (1x10E6 ohms) resistor, Green Straps, Bag of 25

Download Technical Drawing [248660](#) and Technical Bulletin [TB-7515](#)

High Visibility



Hard-wearing; easy fit

Personnel Grounding

REZTORE ESD HAND LOTION

- When using wrist straps, ESD gloves, or ESD footwear, dissipative formulation creates a superior path to ground; Rp 10E6 ohms
- When using wrist straps, ESD gloves, or ESD footwear
- Special ESD formulation for the electronic manufacturing environment; will not insulate skin like regular lotions
- Enriched with aloe vera
- Made in America

Part No.	Description
229630	Reztores ESD Hand Lotion, 235 ml

Download Technical Bulletin [TB-7046](#)



NEW!

TIP!

If you have ESD susceptible products, ESD foot grounders will not provide ESD protection without being used on an ESD floor. Per EN 61340-5-1 clause 5.3.2 Personnel grounding, "For standing operations, personnel can be grounded via a wrist strap system or by a flooring-footwear system. When a flooring-footwear system is used, either of the two following conditions shall be met:

- The total resistance of the system (from the person, through the footwear and flooring to equipment ground) shall be less than 3.5x10E7 ohms
- The maximum body voltage generations shall be less than 100 volts and the total resistance of the system shall be less than 1x10E9 ohms."

See page 30 for Vermason Floor Finish and page 31 - 33 for Vermason Floor Matting



See our products being Made in Britain on our web site: [Click Here](#)

Unit C, 4th Dimension, Fourth Avenue, Letchworth, Hertfordshire, SG6 2TD, United Kingdom

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E-mail: Service@Vermason.co.uk • Web: Vermason.co.uk



WESCORP HEEL GROUNDERS

- Designed to satisfy Footwear requirements of IEC 61340-5-1
- Wear resistant rubber
- Non-marking interior
- Snap-loc fastening assembly

Part No.	Description
249266	Toe Grounder, 1 Meg Resistor
249265	Heel Grounder, 1 Meg Resistor

Download [Technical Drawing 249266](#) and [249265](#)



249266



249265

STANDARD FOOT GROUNDERS

- Designed to satisfy Footwear requirements of IEC 61340-5-1
- Top-of-the-line, extra wide bands of rubber
- Exceptionally tear resistant dual layer rubber with inner scrim
- Non-marking dissipative interior

Part No.	Description
249261	Toe Grounder, 1 Meg Resistor
249260	Heel Grounder, 1 Meg Resistor



249261



249260

DISPOSABLE HEEL GROUNDERS

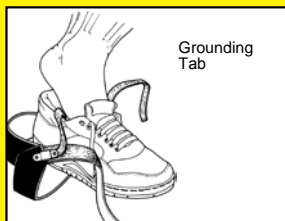
- Comfortable to wear; yellow for easy identification
- Designed for visitors to the EPA; fits all shoes
- Fits women's shoes
- Designed for one time use
- Rg: 10E5 to 10E7 Ohms
- Made in Britain

Part No.	Description
249200	Disposable Heel Grounder, Pack of 50
249205	Disposable Heel Grounder, Pack of 100

Download [Technical Drawing 249200](#) and [Technical Bulletin TB-7515](#)



249200



Proper Installation of Foot Grounders

Grounding tab must be placed between stockinged foot and shoe. This is essential to complete the circuit. Charges are removed from body through foot perspiration in the shoe, sustaining electrical contact between the conductive grounding tab and the body.

Vermason foot grounders (excluding toe grounders) feature an extra long 76cm grounding tab. This allows the user to adjust the tab, and use the foot grounder with boots.

Download [Technical Bulletin PPE-5006.E](#) for complete instructions.



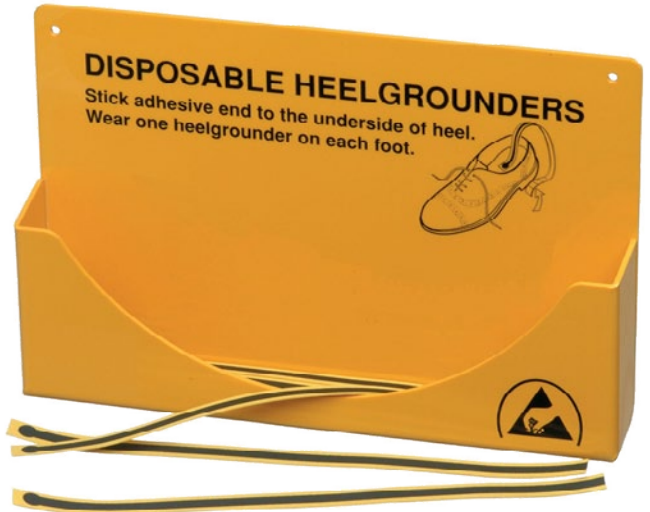


DISPOSABLE HEEL GROUNDING DISPENSER

- Dispenser is designed to be mounted on wall
- Printed with instructions for use of disposable heel grounder
- Dispenser treated with antistatic coating
- Supplied with ten disposable heel grounders
- 315mm x 200mm x 55mm, tray is 105mm deep
- Made in Britain

Part No. Description
249220 Disposable Heel Grounder Dispenser

249220



Be prepared
for visitors

FOOTWEAR SIGN

- Reminder to employees to remove conductive footwear on leaving the ESD Protected Area (EPA) or the changing room
- Designed to be fixed to a wall
- Ref EN 61340-5-2 clause 4.6
- Made in Britain

Part No. Description
229170 Rigid Sign, 300mm x 150mm
229175 Rigid Sign, 600mm x 300mm



229170

Primary source
of electrostatic
charges?

People!

STATSHIELD® V-NECK OVERSHIRTS

- Creates Faraday Cage effect; shields ESD susceptible items from charges on operator's clothing.
- 9% carbon conductive nylon fibers woven in chain-link design; provides continuous and consistent shielding throughout garment.
- Panel to panel conductivity Rp-p < 10E7 ohms meets EN 61340-5-1 Garment limit of < 1 x 10E12 ohms tested per ANSI/ESD STM2.1
- 1 Year / 50 Launderings Limited Warranty
- Made in America

Part No. Description
221140 Statshield® V-Neck Overshirt, Small
221141 Statshield® V-Neck Overshirt, Medium
221142 Statshield® V-Neck Overshirt, Large
221143 Statshield® V-Neck Overshirt, X-Large
221144 Statshield® V-Neck Overshirt, 2X-Large

NEW!

Download Technical Bulletin [TB-7571](#)

Custom embroidery
available - [See Page 15](#)



221142



See our products being
Made in Britain on our
web site: [Click Here](#)

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 E-mail: Service@Vermason.co.uk • Web: Vermason.co.uk



STATSHIELD® PREMIUM ESD SMOCK

- Creates Faraday Cage effect; charges on worker clothing shielded, protecting ESDS devices, patented hip-to-cuff grounding
- Allows your coiled cord to snap to the hip of the smock for hands-free grounding, increasing productivity
- Conductive knitted cuff eliminates need for wristband
- Minimum of 9% carbon conductive nylon fibers woven in chain-link design provides continuous and consistent charge dissipation; panel to panel conductivity
- Prevents isolated charged conductor in ESD protected area; superior
- 2-year/100 launderings limited warranty - [Click HERE](#)
- [Click HERE](#) for test results
- Made in America

Design: 3 pockets, collar, and conductive cuff
 Colour: Blue
 Fabric: Polyester with 9% minimum carbon suffused fibres
 Fabric Weight: 76.3g / sq. metre
 Durability: 100 minimum launderings;
 see 2 year limited warranty at Vermason.co.uk

Part No.	Description
221420	Statshield® Premium Smock, Jacket, Blue, Small
221421	Statshield® Premium Smock, Jacket, Blue, Medium
221422	Statshield® Premium Smock, Jacket, Blue, Large
221423	Statshield® Premium Smock, Jacket, Blue, XLarge
221424	Statshield® Premium Smock, Jacket, Blue, XXLarge
221130	Statshield® Premium Smock, Jacket, Burgundy, Small
221131	Statshield® Premium Smock, Jacket, Burgundy, Medium
221132	Statshield® Premium Smock, Jacket, Burgundy, Large
221133	Statshield® Premium Smock, Jacket, Burgundy, X-Large
221134	Statshield® Premium Smock, Jacket, Burgundy, 2X-Large

No wristband required



221420

Download Technical Bulletin [TB-7516](#)

NEW!

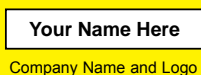


221132

Vermason now provides custom embroidery for your smocks:

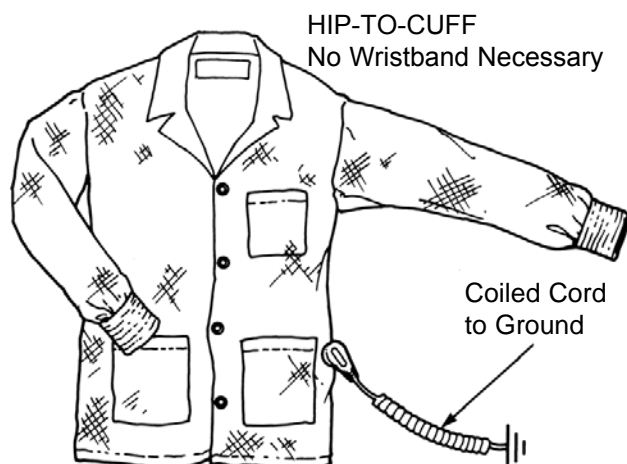
Make smocks special with:

- Company Names and Logos
- Individual Names
- Custom Logos



Call us at or visit us online for pricing and complete details: Vermason.co.uk

Smocks with many custom options can be special ordered. Ask us for details or [Click Here](#)



Premium Statshield® Smocks feature our patented (U.S. Patent #4,596,053) Hip-to-Cuff grounding feature for hands-free grounding. This removes charges from the worker and smock while allowing hands to be free, allowing for increased productivity."

Limited Warranty – 2 years or 100 launderings



Protect users

ESD HANDLING GLOVES

- Knitted nylon with conductive yarn throughout; form fitting gloves that provide comfortable fit
- Protect parts and operator's hands
- Excellent ESD properties
- Rs 10E5 to 10E8 ohms
- Coated finger tips and palm eases handling and improves grip

Part No. Description

221500	ESD Handling Glove, Plain, Small
221501	ESD Handling Glove, Plain, Medium
221502	ESD Handling Glove, Plain, Large
221503	ESD Handling Glove, Plain, XLarge
221504	ESD Handling Glove, with Coated Tips, Small
221505	ESD Handling Glove, with Coated Tips, Medium
221506	ESD Handling Glove, with Coated Tips, Large
221507	ESD Handling Glove, with Coated Tips, XLarge
221508	ESD Handling Glove, with Coated Palm, Small
221509	ESD Handling Glove, with Coated Palm, Medium
221510	ESD Handling Glove, with Coated Palm, Large
221511	ESD Handling Glove, with Coated Palm, XLarge



Download Technical Drawing [221500](#)

[Click here to request a sample](#)

ESD ASSEMBLY GLOVES

- Low cost glove
- Polyester yarn with 6% conductive yarn
- Carefully made tips to maintain tactile feel

Part No. Description

221512	ESD Assembly Glove, Plain, Small
221513	ESD Assembly Glove, Plain, Medium
221514	ESD Assembly Glove, Plain, Large
221515	ESD Assembly Glove, Plain, XLarge
221516	ESD Assembly Glove, with Coated Palm, Small
221517	ESD Assembly Glove, with Coated Palm, Medium
221518	ESD Assembly Glove, with Coated Palm, Large
221519	ESD Assembly Glove, with Coated Palm, XLarge



Download Technical Drawing [221512](#)

Protect products

Did You Know?

Gloves are worn to prevent components and assemblies from becoming contaminated (assembly gloves) or to protect the operator's hands (handling gloves). In an EPA, the gloves used should be conductive or static dissipative.



See our products being Made in Britain on our web site: [Click Here](#)

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 E-mail: Service@Vermason.co.uk • Web: Vermason.co.uk



VERMASON WORKING SURFACE MAT SELECTION CHART

All the mats listed meet the EN 61340-5-1 working surface limit tested per EN 61340-2-3, and all dissipative mats meet the EN 61340-5-1 table 3 note 6 recommendation for resistance lower limit.

	Item Description	Material Construction	Resistance Classification (Rp-p in ohms)	Surface	Best Application	Special Features
Rubber	Statfree Euro T2™ 210980 - 210985	Two-layer rubber 1.5 mm thick	Dissipative Side 10E6 -10E8 Conductive Side <10E6	Light Texture	Where chemical and hot solder are used	Highly durable, heat/chemical and abrasion resistant, dual purpose
	Statfree DLR™ 228071 - 228261	Two-layer rubber 2 mm thick	Dissipative Side 10E6 -10E8 Conductive Side <10E6	Light Texture	Chemical and hot solder are used	Equivalent to Norastat
Multi-Layer Vinyl	Statfree Z2™ 3 Layer 210990 - 210991	Three-layer conductive vinyl 3.2 mm thick	Dissipative 10E6 -10E8	Light Emboss	Where vinyl durability is OK, compatible with continuous monitors	Conductive inner layer provides fast, reliable path to ground while reducing alternative, unintended paths to ground
	Statfree O™ 3 Layer 211000 - 211001	Three-layer vinyl 9.5 mm thick	Dissipative 10E6 -10E8	Smooth	Ideal for energy absorption for disk drives	Extra thick sponge bottom conductive inner layer, ideal for sensitive drives that require impact resistance
Homogenous Vinyl	Statfree B2™ 2 Layer 228330 - 228333	Two-layer vinyl 1.5 mm thick	Dissipative Side 10E6 -10E8 Conductive Side <10E6	Light Emboss	Economical choice, compatible with continuous monitors	Durable, easy to cut and configure, no special tools needed
Laminate	Micastat® 210960 - 210973	High pressure laminate 0.97 mm thick	Dissipative 10E6 -10E8	Smooth	Laminate, where chemical and hot solder are used	Superior heat, chemical, cut resistant
Bench Matting & Shelf Lining	EVA 228290 - 228310	Shelf Lining 1.5 mm thick	Dissipative 10E6 -10E8	Smooth	Ideal for Shelving	This bench / shelf mat provides significant passive protection in well-traveled assembly areas.

"The most important functional consideration for work surfaces is the resistance from the top of the surface to the groundable point (Rgp). This establishes the resistance of the primary path to ground for items placed on the surface. IEC 61340-5-1 has set a resistance to ground range for work surfaces of less than 1,0 x 10E9 ohms. However, it is sometimes necessary to use work surfaces that are much more conductive. This is allowed under IEC 61340-5-1 but the reasons for using a more conductive work surface shall be documented in the ESD control program plan." (CLC/TR 61340-5-2:2008 User guide clause 4.7.1.2.5 Electrical considerations – Work Surfaces)

For practical guidance see [PPE-5025.E](#) Technical Bulletin "Installation and Maintenance of ESD Protective Work Surfaces," available from our web site www.Vermason.co.uk.

See our products being
Made in America
on our web site:
Desco.com/Factory





STATFREE EURO T2™ - DISSIPATIVE DUAL LAYER RUBBER

- Durable rubber material, dissipative on one side and conductive on the other
- Compatible for use with continuous monitors
- Dissipative Side Rp-p: 10E6 - 10E8 ohms
- Conductive Side Rp-p: 10E3 - 10E4 ohms
- Thickness: 1.8mm
- Lightly embossed surface
- Superior heat, chemical and wear resistance
- Due to variations in computer monitor displays, colour shown may not be exact. For true accurate colour, please request an actual [sample](#).
- Made in America

Part No.	Size
210980	Roll, Blue, 1.8mm x 0.6m x 12.2m
210981	Roll, Blue, 1.8mm x 0.76m x 12.2m
210982	Roll, Blue, 1.8mm x 1.2m x 12.2m
210983	Roll, Grey, 1.8mm x 0.6m x 12.2m
210984	Roll, Grey, 1.8mm x 0.76m x 12.2m
210985	Roll, Grey, 1.8mm x 1.2m x 12.2m

Download Technical Drawing [210980](#) and Technical Bulletin [TB-7505](#)

STATFREE DLR SERIES RUBBER MATTING

- Two-layer, static dissipative rubber
- Solder iron resistant and withstands most chemicals
- Mats supplied with four 10mm studs
- Easy to clean
- Low reflecting
- Ideal mat to use with constant monitors
- Due to variations in computer monitor displays, colour shown may not be exact. For true accurate colour, please request an actual [sample](#).

Part No.	Size
228141	Mat, 0.9 x 0.6m, Blue
228151	Mat, 0.9 x 0.6m, Grey
228157	Mat, 0.9 x 0.6m, Green
228156	Mat, 0.9 x 0.6m, Beige
228116	Mat, 1.2 x 0.6m, Blue
228121	Mat, 1.2 x 0.6m, Green
228126	Mat, 1.2 x 0.6m, Grey
228131	Mat, 1.2 x 0.6m, Beige
228071	Roll, 1.0m x 1 linear m, Grey
228072	Roll, 1.0m x 1 linear m, Blue
228073	Roll, 1.0m x 1 linear m, Beige
228074	Roll, 1.0m x 1 linear m, Green
228076	Roll, 1.22m x 1 linear m, Blue
228091	Roll, 1.22m x 1 linear m, Green
228096	Roll, 1.22m x 1 linear m, Grey
228106	Roll, 1.22m x 1 linear m, Beige
228246	Roll, 1.22 x 10m, Blue
228251	Roll, 1.22 x 10m, Green
228256	Roll, 1.22 x 10m, Grey
228261	Roll, 1.22 x 10m, Beige
228241	Roll, 1.0 x 10m, Grey
228242	Roll, 1.0 x 10m, Blue
228243	Roll, 1.0 x 10m, Beige
228244	Roll, 1.0 x 10m, Green

Download Technical Drawing [228071](#)

NEW!

210980

210983

Compatible for use with continuous monitors

NEW!

228071

228073

228072

228074

Meets or Exceeds Norastat Specifications

Benchware & Field Service



See our products being Made in Britain on our web site: [Click Here](#)

Unit C, 4th Dimension, Fourth Avenue, Letchworth, Hertfordshire, SG6 2TD, United Kingdom
Tel: +44 (0)1462 672005 • Fax: +44 (0)1462 670440
E-mail: Service@Vermason.co.uk • Web: Vermason.co.uk



NEW!

STATFREE B2™ DISSIPATIVE 2-LAYER VINYL

Benchware & Field Service

- Economical dual layer vinyl material; versatile dissipative worksurface table mat provides reliable path to ground and allows for use with continuous monitors
- Abrasion resistant top layer
- Smooth surface is easy to clean and maintain
- Non-humidity dependence
- Provides consistent electrical performance regardless of ambient humidity
- Dissipative worksurface - 10E6 - 10E8 ohms RTT
- **Lead-Free RoHS Compliant**
- Due to variations in computer monitor displays, color shown may not be exact. For true accurate colour, please request an actual [sample](#).
- Made In America

Part No.	Size
228330	Roll, Blue, 1.5mm x 0.61m x 15.2m
228333	Roll, Blue, 1.5mm x 1.22m x 15.2m

Download Technical Drawing [228330](#)



Only 2 Layer Vinyl!
Proprietary design and construction.

Compatible for use with continuous monitors

Clean mats with Reztore Antistatic Surface and Mat Cleaner

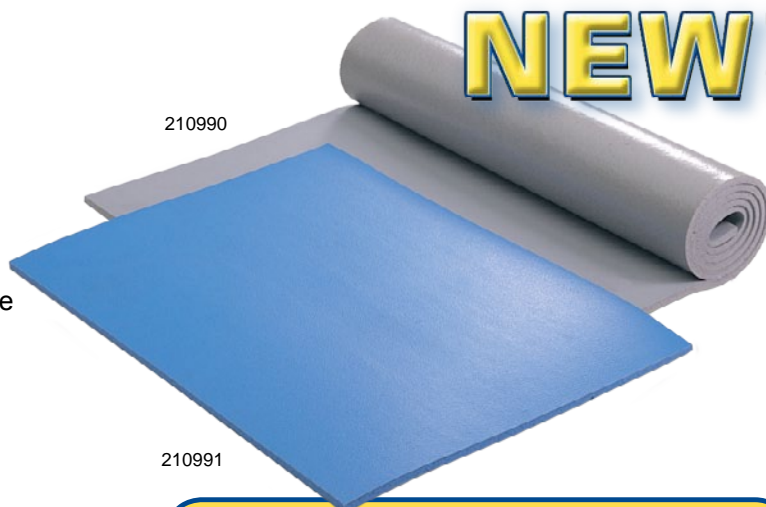
See page 35

STATFREE Z2™ - DISSIPATIVE 3 LAYER VINYL ROLLS

- Heat fused vinyl composite
- Conductive grid mesh inner layer
- Compatible for use with continuous monitors
- Thickness: 3.2mm
- Rp-p: 10E6 - 10E8 ohms and Rg: 10E6 - 10E8 ohms tested per IEC 61340-2-3
- Abrasion resistant top layer
- Lead-free RoHS compliant
- Grounding hardware not included
- Due to variations in computer monitor displays, colour shown may not be exact. For true accurate colour, please request an actual [sample](#).
- Made in America

Part No.	Size
210990	Roll, Grey, 3.2mm x 1.2m x 15.2m
210991	Roll, Blue, 3.2mm x 1.2m x 15.2m

Download Technical Drawing [210990](#) and Technical Bulletin [TB-7505](#)



NEW!

Compatible for use with continuous monitors





NEW!

STATFREE O™ - DISSIPATIVE 3 LAYER VINYL ROLLS

- Thick, energy absorbing
- Dissipative cushioned vinyl bottom layer
- Soft, pliable, material
- Rp-p: 10E6 - 10E8 ohms and
Rg: 10E6 - 10E8 ohms tested per IEC 61340-2-3
- Lead-free RoHS compliant
- Grounding Hardware not included
- Due to variations in computer monitor displays, color shown may not be exact
- For true accurate color, please request an actual [sample](#)
- Made in America

Part No.	Size
211000	Roll, Blue, 9.5mm x 0.6m x 18.3m
211001	Roll, Blue, 9.5mm x 0.9m x 18.3m

Download [Technical Bulletin TB-7505](#) and
[Technical Drawing 211000](#)



211000

Compatible for use with
continuous monitors

CUSTOM CUTTING
AVAILABLE

Contact customer service for details.

Benchware & Field Service

EVA BENCH MATTING AND SHELF LINING

- Mat and roll sizes are flexible, tough and fairly hard; offers excellent chemical resistance
- Lining is ideal conductive shelf liner
- Low cost
- Rs and Rg: 10E3 to 10E5 ohms,
meets EN 63140-5-1
- Thickness 1.5mm, weight is 1.4kg/m²
- Mats supplied with four 10mm studs

Part No.	Size
228290	Mat, Black. 1.55mm, 1.2m x 0.54m
228295	Mat, Black. 1.55mm, 2.4m x 1.1m
228300	Roll, Black. 1.55mm, 0.54m x 8m
228285	Roll, Black. 1.55mm, 1.08m x 24m
228305	Roll, Black. 1.55mm, 0.36m wide, up to 24m long
228310	Roll, Black. 1.55mm, 1.1m wide, up to 24m long

Download [Technical Drawing TD-7517](#)
and [Technical Bulletin TB-7505](#)



228290

Ideal for use with our
PCB Racks and Containers



See our products being
Made in Britain on our
web site: [Click Here](#)

Unit C, 4th Dimension, Fourth Avenue, Letchworth, Hertfordshire, SG6 2TD, United Kingdom
Tel: +44 (0)1462 672005 • Fax: +44 (0)1462 670440
E-mail: Service@Vermason.co.uk • Web: Vermason.co.uk



PORTABLE FIELD SERVICE KIT - LIGHT WEIGHT

- Includes mat, high quality wristband set, mat grounding cord with 1 Megohm (1x10E6 ohms) resistor, crocodile clip, pouch
- Made of two-layer blue/black vinyl cloth
- Mat 610mm x 610mm when open
- Rs: 10E3 ohms black side, 10E8 ohm blue side
- Rc: 10E5 to 10E8 ohms, meets EN 61340-5-1
- Made in Britain

Part No.	Description
231610	Kit
231605	Mat Only
231641	Pouch Only

Download Technical Drawing [231610](#)



231610

**CUSTOM CUTTING
AVAILABLE**

Contact customer service for details.

PORTABLE FIELD SERVICE KIT - HEAVY DUTY

- No exposed conductive surface - safer, cleaner
- Includes mat, high quality adjustable wristband set, 2m long EBP ground cord, crocodile clip, wallet
- Mat 545mm x 590mm when open
- Rs: 10E7 - 10E9 ohms, Rc: 10E6-10E8 ohm
- Mat made of three layer, hard-wearing coated fabric
- Made in Britain

Part No.	Description
231615	Field Service Kit with Cloth Band, Blue
231620	Field Service Kit with Metal Band, Blue
231635	Field Service Kit with Cloth Band, Red
231625	Field Service Kit with Metal Band, Red

Download Technical Drawing [231615](#)



231635

NEW!

EPA KITS

- Creates a single operator ESD Protected work area (EPA)
- Hard-wearing Statfree Euro T2™ work surface, 1.8mm thick, 1.2m x 0.6m, four 10mm male studs
- Dissipative Side Rp-p: 10E6 - 10E8 ohms, Conductive Side Rp-p: 10E3 - 10E4 ohms; meets EN 61340-5-1
- Made in Britain

Part No.	Description
231662	EPA Kit, with Floor Blue T2 Mat, Sign & UK Plug
231667	EPA Kit, with Floor Grey T2 Mat, Sign & UK Plug
231677	EPA Kit, with Floor Blue T2 Bench Mat, Sign & UK Plug
231687	EPA Kit, with Floor Blue T2 Bench Mat, Sign, UK Plug & WS Tester



231662





DISSIPATIVE TOOL ROLL

- Can be safely transported to and used within an ESD Protected Area (EPA)
- Made of three-layer, hard-wearing coated fabric
- Size: 31mm x 510mm when open
- RS: 10E6 to 10E9 ohm
- Made in America

Part No. Description
[231600](#) Static Dissipative Tool Roll



231600

Note: Tools not included

DURASTATIC TOOL BOX

- Used to safely contain and transport ESD tools in an ESD Protected Area (EPA)
- Made of polypropylene using durAstatic® technology
- Permanently static dissipative - Rv: 10E9 to 10E10 ohm, T₁₀₀₀: <6sec
- Size: 370mm x 190mm x 135mm
- Made in America

Part No. Description
[239855](#) Tool Box with Tray

[Download Technical Drawing 239855](#)



239855

CONDUCTIVE VACUUM CLEANER AND BLOWER

- 1200cm³ dust bag retains particles ≥ 0.3 microns
- Powerful 1300W motor without or with electronically adjustable suction
- Made entirely of conductive impact resistant polypropylene
- Kit includes 1.3m hose, two nozzles and a carrying strap

Part No. Description
[231700](#) Conductive Vacuum Cleaner
[231710](#) Conductive Vacuum Cleaner, Adjustable Suction
[231725](#) Replacement Bags, Pack of 10
[231705](#) Carry Bag

[Download Technical Bulletin TB-7510](#)



231700





STUDS AND SOCKETS FOR RIVETING

- Creates earth grounding points (common ground points) on bench and floor mats to which to connect ground cords
- Made in Britain

Part No.	Description
230630	10mm Stud and Post, Pack of 100
230675	10mm Socket and Post, Pack of 100



PUNCH AND ANVIL

- Used to fix studs or sockets to mats
- Non-slip grip sleeve
- Supplied with 10 studs and posts
- Made in Britain

Part No.	Description
230660	Punch and Anvil for 10mm Stud and Post

[Download Technical Drawing](#) [230660](#)

Ideal for use with our bench matting



CRIMP-ON STUDS AND SOCKETS FOR MATS

- Prongs are designed to pierce bench mat
- Prongs fold over on underside of mat to hold 10mm stud or socket in place
- Made of stainless steel
- Recommended for 3-layer matting with conductive scrim

Part No.	Description
230670	Crimp-on 10mm Stud
230680	Crimp-on 10mm Socket



SCREW-ON STUDS

- Create grounding points on bench tops or chassis
- Machined stud with M4 internal thread is made of stainless steel
- Wood screw length is 16mm, stud is made of plated brass
- Not recommended for 3-layer matting with conductive scrim
- Made in Britain

Part No.	Description
230645	10mm Stud, M4 Thread with Screws and Washer
230650	10mm Stud, with Wood Screw



SCREW-ON STUD WITH FACE PLATE

- Create designated ESD grounding point (common ground points) on panels, racks, cabinets, etc.
- Available in two versions: 10mm connector to be electrically bonded to mounting or to earth by user, or supplied with a 1Megohm (1x10E6 ohms) resistor built into the 1.5m straight cord
- Straight cord can be shortened; spare ring terminal is supplied
- Maximum mounting panel thickness: 3.5mm; drill 6mm hole in panel to mount
- Supplied as a kit with assembly instructions

Part No.	Description
231105	EBP, Kit, 10mm Stud (No Wire)
231110	EBP, Kit, 4mm Banana Socket, with Lead and 1 Megohm Resistor

[Download Technical Drawing](#) [231105](#)





STRAIGHT CORDS

- 1 Megohm (1x10E6 ohms) resistor in each socket only
- 2.5mm cord diameter
- Many terminations and lengths are possible
- One end has 10mm socket as standard
- Made in Britain

Part No.	Description
230465	Cord, Straight, 0.25m, 10mm Socket, 4mm Plug
230490	Cord, Straight, 0.7m, 10mm Socket, 4mm Plug
230385	Cord, Straight, 1.5m, 10mm Socket, 4mm Plug
230415	Cord, Straight, 2.5m, 10mm Socket, 4mm Plug
230470	Cord, Straight, 0.25m, 10mm Socket, 10mm Socket
230495	Cord, Straight, 0.7m, 10mm Socket, 10mm Socket
230395	Cord, Straight, 1.5m, 10mm Socket, 10 mm Socket
230420	Cord, Straight, 2.5m, 10mm Socket, 10mm Socket
230480	Cord, Straight, 0.7m, 10mm Socket, M5 Ring Terminal
230370	Cord, Straight, 1.5m, 10mm Socket, M5 Ring Terminal
230410	Cord, Straight, 2.5m, 10mm Socket, M5 Ring Terminal
230380	Cord, Straight, 1.5m, 10mm Socket, Crocodile Clip
230430	Cord, Straight, 2.5m, 10mm Socket, Crocodile Clip

Download Technical Drawings [230465](#), [230470](#), [230380](#) and [230480](#)



STRAIGHT CORDS WITH CONICAL HEAD

- Low-profile head helps prevent cord from being knocked off
- Built-in 10mm socket fits stud on mat; built-in 10mm stud fits socket on mat
- 1 Megohm (1x10E6 ohms) built-in resistance built into conical head (except 231265 and 231266)

Part No.	Description
231280	10mm Socket / M5 Ring Terminal, 4.5m, 1 Megohm (1x10E6 ohms)
231267	10mm Socket / 10mm Socket, 0.25m, 1 Megohm (1x10E6 ohms)
231285	10mm Stud / M5 Ring Terminal, 4.5m, 1 Megohm (1x10E6 ohms)
231265	10mm Socket / M5 Ring Terminal, 1.7m, No Resistor
231266	10mm Socket / 10mm Socket, 1.7m, No Resistor
231290	10mm Socket / 10mm Socket, 4.5m 1 Megohm (1x10E6 ohms)

Download Technical Drawing [231285](#)



LINK CORDS

- Used to link two adjacent work surfaces
- No built-in resistors
- 2.5mm cord diameter, black PVC insulation
- Made in Britain

Part No.	Description
230475	Cord, Straight, 0.25m, 10mm Socket, 10mm Socket, No Resistor
230485	Cord, Straight, 0.5m, 10mm Socket, 10mm Socket, No Resistor
230500	Cord, Straight, 0.7m, 10mm Socket, 10mm Socket, No Resistor

Download Technical Drawing [230475](#)





COILED EARTH BONDING POINT CORD

- Built-in 10mm socket fits 10mm stud (common ground points) on mat
- Or use built-in 7mm socket that fits 7mm stud on mat
- Accepts one 4mm plug from wrist strap to connect to ground
- 1 Megohm (1x10E6 ohms) resistor built in to socket

Part No.	Description
230150	Coiled Cord, 3m, 10mm Socket + 7mm Socket / 4mm Plug



EARTH BONDING POINT CORDS

- Built-in 10mm socket fits 10mm stud on mat
- Accepts up to two banana plugs from wrist straps to connect to ground (common ground points)
- Cord is 4m long, 1 Megohm (1x10E6 ohms) resistor built into socket

Part No.	Description
231245	EBP Cord, 4m, 10mm Socket with 2 x Plug Sockets / M5 Ring Terminal
231255	EBP Cord, 4m, 10mm Socket with 2 x Plug Sockets / 4mm Plug
231260	EBP Cord, 4m, 10mm Socket with 2 x Plug Sockets / 10mm Socket
231250	EBP Cord, 4m, 10mm Stud with 2 x Plug Sockets / M5 Ring Terminal



COMMON REFERENCE POINT PLATE

- Serves as a grounding hub (common ground points) for various elements in an ESD Protected Area (EPA)
- Four 10mm studs allow connection of up to four cords
- Size: 125mm x 75mm x 3.5mm
- EBP label identifies plate as ESD item
- Made in Britain

Part No.	Description
231115	CRP with 5mm x 10mm Stud



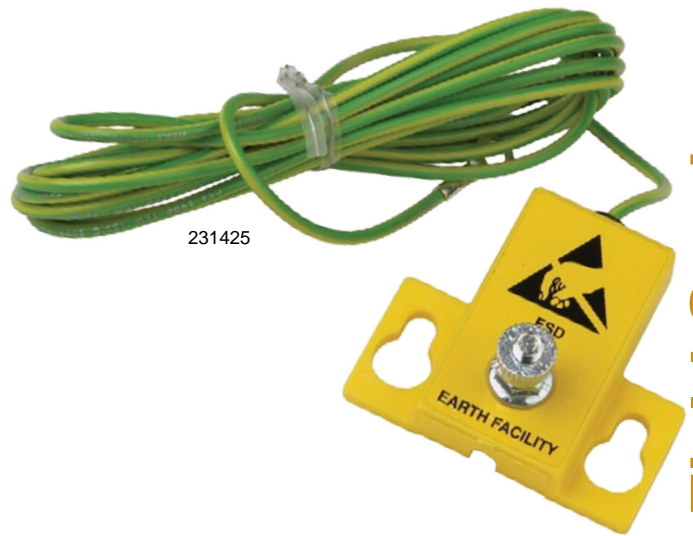


EARTH FACILITY BRACKETS

- Serves as a grounding hub for earth bonding points (common ground points), can receive several wires
- Supplied with mounting screws - easy to mount
- Strain relief built in
- Size: 40mm x 45mm x 12mm
- Made in Britain

Part No.	Description
231425	EF Bracket with M5 Binding Post, No Resistor
231420	EF Bracket with Insulated Binding Post, No Resistor

Download Technical Drawing [231420](#)



231425

Check out the set-up of a typical EPA

EBP BRACKETS

- Earth Bonding Point (common ground points)
- Brackets can be fixed to wall or bench
- Black cord 3m long, can exit top or bottom
- Size: 40mm x 45mm x 12mm
- Made in Britain

Part No.	Description
231405	EBP Bracket with 10mm Stud, 1 Megohm (1x10E6 ohms) Resistor
231410	EBP Bracket with 10mm Stud, 2 Megohms (1x10E6 ohms) Resistor
231415	EBP Bracket with 10mm Stud, No Resistor

Download Technical Drawing [231405](#)



231405

EARTH BONDING POINT PLUGS

- Provide safe and low-cost path to electrical mains earth
- Fits UK 13A socket or European Schuko socket
- Made of yellow, impact-resistant ABS plastic
- 1 Megohm (1x10E6 ohms) 1/2 Watt resistor built in to each stud connector
- Made in Britain

Part No.	Description
231180	UK Plug with 1 x 4mm Stud, 2 x 10mm Studs
231200	UK Plug with 3 x 10mm Studs
231230	UK Plug with 2 x 4mm Plug Sockets, 1 x 10mm Studs
231195	UK Plug with 1 x 10mm Stud, No Resistor
231185	UK Plug with 1 x 10mm Stud
231225	UK Plug with 1 x 2BA Binding Post, No Resistor
231135	European Plug, 3 x 10mm Studs
231125	European Plug, 1 x 4mm / 2 x 10mm Studs
231170	European Plug, 2 x 4mm Plug Sockets, 1 x 10mm Stud

Download Technical Drawings [231135](#) and [231180](#)



231225

UK Plug

Euro Plug

231230

231200

231195





EBP BARS

- Earth Bonding Point Bars (common ground points) designed to be mounted on under-side of bench top or shelf
- Supplied with screws and spare ring terminal, black cord 3m long, exits via strain relief on right
- Fitted with three 1 Megohm (1x10E6 ohms) 1/2 Watt resistors
- Made in Britain

Part No.	Description
231271	EBP Bar with 3 x 10mm Studs, Grey
231270	EBP Bar with 3 x 10mm Studs, Grey, No Resistor
231275	EBP Bar with 3 x 10mm Studs, Yellow
231288	EBP Bar with 2 x 10mm Studs, 1 x 4mm Plug Socket, Grey
231296	EBP Bar with 2 x 4mm Plug Sockets, 1 x 10mm Stud, Yellow
231305	EBP Bar with 3 x 4mm Plug Sockets, Yellow

Download Technical Drawing [231270](#)



Check out our selection of coiled cords, wristbands and mats

SLIM EBP BARS

- Slim Earth Bonding Point Bars (common ground points) designed to fit underneath bench tops with narrow overhang >16mm
- 3 x 1 Megohm (1x10E6 ohms) 1/2 Watt resistors fitted (except 231350)
- Made of yellow ABS with welded back cover, 110mm x 16.5mm x 37mm
- Made in Britain

Part No.	Description
231345	Slim EBP with 3 x 10mm Studs
231350	Slim EBP with 3 x 10mm Studs, No Resistor
231360	Slim EBP with 3 x 4mm Studs

Download Technical Drawing [231345](#)



EBP BOXES

- Earth Bonding Point (common ground points) Boxes designed to be mounted on bench
- Black cord 3m long, can exit towards left or right
- 1 Megohm (1x10E6 ohms) 1/2 Watt resistor for each connector
- Made in Britain

Part No.	Description
231390	EBP Box with 3 x 10mm Studs
231395	EBP Box with 3 x 10mm Studs, No Resistor
231400	EBP Box with 3 x 4mm Plug Sockets
231380	EBP Box with 2 x 4mm Plug Sockets, 1 x 10mm Stud
231385	EBP Box with 2 x 4mm Plug Sockets, 1 x 10mm Stud, No Resistor

Download Technical Drawing [231390](#)





EPA WARNING SIGNS

- Self adhesive: under-printed on 0.4mm thick PVC
- Rigid: printed on 3mm thick yellow "foamex"
- Rigid sign has holes for hanging
- Treated with antistatic coating
- Made in Britain

Part No.	Description
229125	Self-adhesive, 100mm x 50mm
229100	Self-adhesive, 300mm x 150mm
229115	Self-adhesive, 600mm x 300mm
229135	Rigid, 300mm x 150mm
229140	Rigid, 600mm x 300mm

[See set-up of a typical EPA](#)



229100

EPA WARNING SIGNS, TWO SIDED

- Suitable for hanging overhead in an EPA (ESD protected area)
- Printed both sides
- Treated with antistatic coating
- Made in Britain

Part No.	Description
229150	Rigid Two-sided, 600mm x 300mm
229160	Rigid Two-sided, 1200mm x 600mm



229150

Printed on both sides

EPA EXIT SIGNS

- Help raise awareness of the EPA (ESD protected area)
- Conforms to EN 61340-5-2 clause 4.6
- An aid to both visitors and employees
- Made in Britain

Part No.	Description
229230	Self-adhesive, 300mm x 150mm
229235	Self-adhesive, 600mm x 300mm
229210	Rigid, 300mm x 150mm
229225	Rigid, 600mm x 300mm

[See Page 36 for demarcation tape](#)



229225

229210

WEAR WRIST STRAP SIGN

- A reminder to employees to fit a wrist strap on when entering an EPA (ESD protected area)
- Available in two versions and two sizes
- Made in Britain

Part No.	Description
229195	Self-adhesive, 300mm x 150mm
229185	Rigid, 300mm x 150mm
229190	Rigid, 600mm x 300mm



229195



See our products being Made in Britain on our web site: [Click Here](#)



FOOTWEAR SIGN

- Reminds employees to remove conductive footwear on leaving the ESD Protected Area (EPA) or changing room - helps extend life of expensive ESD footwear
- Designed to be fixed to a wall
- Ref EN 61340-5-2 clause 4.6
- Made in Britain

Part No.	Description
229170	Rigid, 300mm x 150mm
229175	Rigid, 600mm x 300mm



229170

See [Page 8](#) for our heel grounders and [Page 28](#) for our floor paint

EPA SIGN, HIGH VOLTAGE

- Use where there are exposed potentials >250 VAC
- Recommended in EN 61340-5
- Where using personnel grounding device is not recommended
- Two colour on 3mm thick yellow "foamex"
- Treated with antistatic coating
- Made in Britain

Part No.	Description
229180	Rigid, 600mm x 300mm



229180

EPA SIGN, UNPROTECTED AREA

- Designed no-go areas for unshielded ESD sensitive devices
- Recommended in EN 61340-5
- Red print on yellow 3mm "foamex"
- Treated with antistatic coating
- Made in Britain

Part No.	Description
229165	Rigid, 300mm x 150mm



229165

TIP!

Use signs to clearly identify where ESD Protected Areas start and where ESD Protected Areas end!





STATGUARD® FLOOR FINISH

- Low-tribocharging, fulfilling requirements of EN 61340-5-1
- Static dissipative Rp-p 10E6 - 10E9 ohms
- Durable high gloss floor
- Can be applied on many hard surfaces or sealed floors including vinyl, VCT, linoleum, rubber, asphalt, and concrete; versatile, turns many floors into an ESD floor
- UL classified for slip resistance only; for worker safety and mitigates user liability
- Made in America; superior quality

Part No. Description
220521 Statguard® Floor Finish, 10l Bag-in-Box

Download Technical Bulletin [TB-7042](#)

Bag-in-Box Packaging

- Recyclable
- Prevents waste material



220521

STATGUARD® FLOOR CLEANER

- Formulated with dissipative agents that rejuvenate and improve the properties of floor finish
- Cleans floors coated with Statguard® Floor Finish
- Static Dissipative: Rp-p 10E6 - 10E9 ohms
- Listed with the number UBA 50550001 by the German Umweltbundesamt
- Listed by the Swiss Federal Office of Public Health as BAG T Nr. 60108
- Made in America; superior quality

Part No. Description
220522 Statguard® Floor Cleaner, 10l Bag-in-Box

Download Technical Bulletin [TB-7041](#)

Good for use with ESD Floor Mats



220522

STATGUARD® FLOOR STRIPPER

- Non-ammoniated and phosphate-free; environmentally safe, biodegradable
- Low pH formulation (pH 10.5); breaks up and lifts multiple layers of Statguard® Floor Finish
- Strips floor finish from vinyl, VCT, concrete, rubber, terrazzo, quarry tile, brick, slate, and unglazed ceramic
- Made in America; superior quality

Part No. Description
220523 Statguard® Floor Stripper, 10l Bag-in-Box

Download Technical Bulletin [TB-7026](#)



220523

To ground mobile personnel,
you need both an ESD
floor and ESD footwear

See pages [10](#) - [13](#)



See our products being
Made in Britain on our
web site: [Click Here](#)

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E-mail: Service@Vermason.co.uk • Web: Vermason.co.uk



STATFREE S PLUS™ - DISSIPATIVE ANTI-FATIGUE RUBBER

- Combines a cross-link vinyl/nitrile rubber construction
- Extremely durable embossed surface
- Beveled edges
- Outperforms other anti-fatigue mats, even in low temperatures
- Rp-p and Rg < 10E9 ohms tested per EN 61340-4-1
- Grounding hardware not included
- Lead-free RoHS compliant
- Made in America

NEW!



210950

Part No.	Size
210950	Roll, Grey, 9.5mm x 0.9m x 18.3m
210951	Roll, Grey, 9.5mm x 1.2m x 18.3m

Download Technical Drawings [210950](#)

All mats are date and lot coded for quality control traceability

STATFREE I™ - CONDUCTIVE ANTI-FATIGUE INTERLOCKING RUBBER

- Premium nitrile butadiene homogenous rubber with no clay or silica fillers
- Ergonomic design dome / support cell structure
- Patented interlocking edge (patent no. 5,907,934)
- Rp-p and Rg 10E4 – 10E5 ohms tested per EN 61340-4-1
- Grounding hardware not included
- Lead-free RoHS compliant
- Superior warranty
- Made in America

NEW!



211010

Part No.	Size
211010	Mat, Black, 12.7mm x 0.6m x 0.9m

Download Technical Drawings [211010](#)

TIP!

Suitable for ESD flooring component in Person/footwear/flooring system as personnel grounding method 3.5×10^7 ohms per IEC 61340-5-1 clause A.2.

STATGUARD® CARPET PROTECTOR

- Makes non-ESD chair fabrics and carpet ESD safe; controls against ESD while protecting fabric colour and life
- Protects ESD safe chair fabrics and carpet from soil and stains - maintains new-looking appearance of chair fabrics and carpet
- Water based - easy to apply
- Rp-p: 10E5 - 10E9 ohms per EN 61340-4-1
- Can be applied to fabric chairs, carpet and other fiber materials
- Coverage: 10.4 square meter per liter of diluted concentrate
- Lead-free RoHS compliant
- Made in America

NEW!

Part No.	Description
220525	Statguard Carpet Protector, 3.8l
220526	Statguard Carpet Protector, 1l

Download Technical Bulletin [TB-7043](#)



220526



220525

See our products being Made in America on our web site:

Desco.com/Factory



FLOOR MAT SELECTION CHART

All Vermason floor mats meet the EN 61340-5-1 flooring limit tested per EN 61340-4-1

	Statfree	Material Construction	Resistance Classification (Rp-p in ohms)	Surface	Best Application	Special Features
Vinyl	CV 211040 - 211041	Homogeneous reversible 1.5 mm thick and 3.2 mm thick	Conductive 10E4 - 10E5	Light Texture	Moving carts, pallet jacks and forklift trucks; chairs with casters	Lays flat; very durable, chemical resistant, hard surface
	S+ 210950 - 210951	Cross-link vinyl/nitrile rubber 9.5 mm thick	Dissipative 10E6 - 10E8	Pebble Embossed	Anti-fatigue runner meets EN 61340-5-1	Extremely durable, good antifatigue properties
	F+ 211030	Homogeneous 3.2 mm thick	Dissipative 10E4 - 10E5	Corrugated top, smooth bottom	Wet areas, runner	Economical flooring with corrugated anti-slip surface
Rubber	i 211010	Interlocking rubber 12.7 mm thick	Conductive 10E4 - 10E5	Air cell / dome	Ergonomic - Great anti-fatigue properties; clean room	Ideal for whole room application where material is needed
	G2 211020 - 211021	Homogeneous reversible 1.5 mm thick	Conductive 10E4 - 10E5	Light Texture	Wave solder areas	Highly durable, heat and chemical resistant, easy to cut, lays flat
	DLR 210926 - 210927	Dissipative Dual Layer 2.5 mm and 3.5 mm thick	Dissipative 10E6 - 10E8	Light Texture	Chemical and hot solder are used	Equivalent to Norastat

"Electrostatic conductive floor is characterized by a resistance less than $1 \times 10E6$ ohms" [EN 61340-4-1 clause 1.3.1]

ALL Vermason Statfree® Mats Provide:

- Antistatic, low tribocharging; minimal charge generation on mat
- High quality material with dissipative or conductive electrical properties; when properly grounded, safely removes electrostatic charges from equipment and people to protect your ESD sensitive products
- Non-humidity dependence; provides consistent electrical performance regardless of ambient humidity
- Dimensionally stable; minimal shrinkage and curling

STATFREE G2™ - CONDUCTIVE SMOOTH RUBBER

- 10E3 - 10E5 ohm resistance
- Meets ESD protective flooring requirements of EN 61340-5-1
- Durable homogeneous rubber
- Superior heat, chemical, and wear resistance
- Non-humidity dependence
- Lead-free RoHS compliant
- Made in America

Part No. Size
[211020](#) Mat, Black, 1.5mm X 1.2m X 2.4 m
[211021](#) Roll, Black, 1.5mm X 1.2m X 12.2 m

Download Technical Drawings [211020](#)



211021



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STATFREE DLR™ - DISSIPATIVE DUAL LAYER RUBBER

- Designed as working surface mat, can be used as a colourful floor mat
- Dual-layer rubber, static dissipative coloured side or conductive black side
- Rg: 10E6 to 10E8 ohms tested per IEC 61340-4-1 meets EN 61340-5-1 flooring limit
- Made in America

Part No.	Size
210926	Roll, Light Grey, 2.5mm X 1.9m x 10m
210927	Roll, Dark Grey, 3.5mm X 1.22m x 10m

Download Technical Drawings [210926](#)



Meets or Exceeds Norostat Specifications

STATFREE F PLUS™ - CONDUCTIVE CORRUGATED VINYL

- Rp 10E3 – 10E5 ohms meets EN 61340-5-1 Table 1 requirement for ESD floor when grounded
- Economical vinyl for floor mats and runners
- Corrugated slip resistant surface; provides excellent traction in wet environments
- Easy to cut; configure to your requirements
- Made in America

Part No.	Size
211030	Conductive Black Vinyl Roll, 3.2mm x 1.2m x 12.2m

Download Technical Drawings [211030](#)



STATFREE CV™ CONDUCTIVE HOMOGENEOUS VINYL

- 10E3 - 10E5 ohm resistance
- Durable homogeneous vinyl material with conductive electrical properties
- Chemical resistant
- Lead-free RoHS compliant
- Made in America

Part No.	Size
211040	Black Vinyl Roll, 3.2mm X 1.2m X 12.2m
211041	Black Vinyl Mat, 3.2mm X 1.2m X 2.4m

Download Technical Drawings [TB-7007](#)



Charleswater Europe Statfree® Matting for floors, working surfaces, or shelves, are ESD protective products specifically designed to provide ESD protection for ESD sensitive assemblies and devices. Per IEC 61340-5-1, all conductors in the ESD protected area, including mobile personnel via foot grounders, must be grounded.



STATGUARD® CONDUCTIVE ACRYLIC LATEX FLOOR PAINT

- Easy to repair, touch up, and maintain; excellent for heavy traffic in factories and contract building applications
- Adheres to floor, walls, or wood furniture; provides static control on concrete and epoxy floors and in places which are difficult to protect
- Conductive in accordance per EN 61340-5-1; Rp-p 10E5 - 10E6 ohm
- Replaces static control floor mats in electronics, manufacturing, assembly, and test areas
- Made in America

Part No.	Description
210220	Statguard® Paint, Grey, 3.8l
210221	Statguard® Paint, Grey, 19l
210222	Statguard® Paint, Light Grey, 19l



Light Grey



Grey

Download Technical Bulletin [TB-7001](#)



210221

Flooring

Clean your floor
using Statguard
Floor Cleaner



[See Pages 30](#)

STATGUARD® CONDUCTIVE EPOXY

- One coat system saves labour
- The only conductive ONE COAT 2-part epoxy on the market
- Epoxy is a tight cross-linking thermosetting epoxide polymer providing superior toughness and durability
- Water based, safe for use and shipment
- 4 gallon kit with pre-measured part A and B, just add together and mix
- Thin mil system allows for easy repair for damaged areas
- ESD floor per EN 61340-5-1 tested per per EN 61340-4-1
- Rp-p 10E4 - 10E6 ohms is suitable for ESD flooring component in flooring - footwear System as primary grounding method $3.5 \times 10E7$ ohms per EN 61340-4-5 floor materials and footwear resistance in combination with a person
- Made in America

Part No.	Description
210226	Statguard® Epoxy Primer, Light Grey, 15l
210225	Statguard® Epoxy Coating, Light Grey, 15l



Light Grey

Download Technical Bulletin [TB-7039](#) and [TB-7040](#)

NEW!



210226



See our products being Made in Britain on our web site: [Click Here](#)

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REZTORE™ TOPICAL ANTISTAT

- Antistatic, low tribocharging; keeps triboelectric charges well below 100 volts per EN 61340-5-1
- Long lasting hard coat formula - protection that lasts three times as long as the other leading brands
- Static dissipative: Rp-p 10E6 Ohms; provides a safe path to ground
- Removes contaminating particulate; eliminates possible ESD event
- Made in America

Part No.	Description
229010	Reztore™ Topical Antistat, 1l Spray, 1 Unit
229011	Reztore™ Topical Antistat, 1l Spray, Carton of 12
229012	Reztore™ Topical Antistat, 10l Refill

Download Technical Bulletin [TB-7005](#)



229010

For our selection of Benchmats see [Page 17 - 20](#)

REZTORE™ ESD SURFACE AND MAT CLEANER

NEW!

- Static dissipative solution: Rp-p 10E8 ohms; cleans and restores ESD mats
- Removes contaminants; eliminates possible source of ESD event
- Available in dissipative pop-up dispenser as "Static Wipes"; ideal for cleaning static dissipative mats, conductive mats, electronic instrumentation, medical equipment, computer monitors and keyboards
- Reztore™ Surface and Mat Cleaner is listed with the number UBA 50550002 by the German Umweltbundessamt
- Reztore™ Static-wipes are listed with the number UBA 50550003 by the German Umweltbundessamt
- Listed by the Swiss Federal Office of Public Health as BAG T Nr. 610200
- Made in America

Part No.	Description
229020	Reztore™ Surface and Mat Cleaner, 500ml Trigger Spray, Carton of 12
229021	Reztore™ Surface and Mat Cleaner, 1l Spray, 1 Unit
229022	Reztore™ Surface and Mat Cleaner, 1l Spray, Carton of 12
229023	Reztore™ Surface and Mat Cleaner, 10l Refill
229024	Reztore™ Static-Wipes, Pop-up Dispenser (160 wipes)
229025	Reztore™ Static-Wipes, Pop-up Dispenser (60 wipes), Carton of 12

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229020

229024

229021

229023

Save money by re-filling 500ml and 1l bottles

New and Improved Formula!



229023 Refill System

See our products being Made in America on our web site:

[Desco.com/Factory](#)





FLOOR MARKING TAPE

- Suitable for defining the boundaries of ESD Protected Areas (EPAs)
- Self adhesive
- PVC, laminated with clear polypropylene for durability and washability
- Made in Britain

Part No.	Description
210300	Floor Tape, 75mm, 33m Tape
210310	Floor Tape, 50mm, 66m Tape with Arrows

Download Technical Drawing [210300](#)

[Check out the set-up of a typical EPA](#)

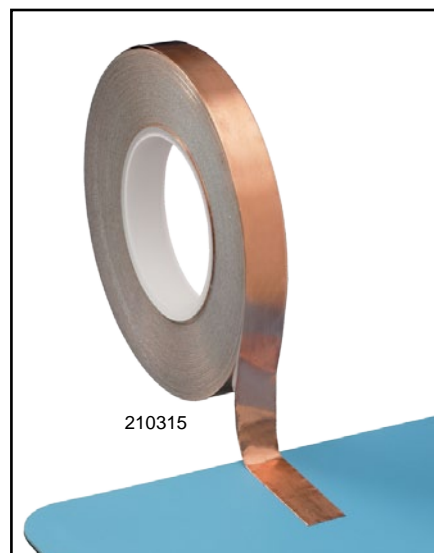


EIO

COPPER EARTHING TAPE

- Can be used to ground ESD matting, polishes, and paint
- 0.145mm thick copper, 19mm wide, 50m long roll
- Self-adhesive, with release paper backing
- Made in Britain

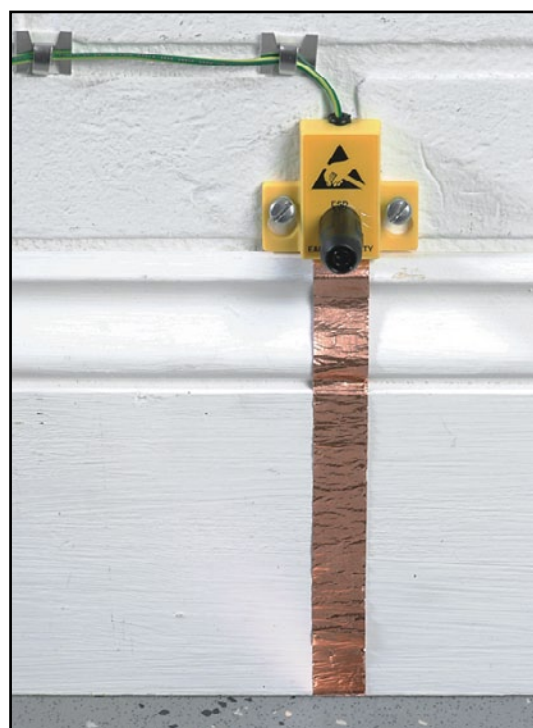
Part No.	Description (W x L)
210315	Copper Tape, 0.145mm x 19mm x 50m



FLOOR GROUNDING KIT AND TEST POINT

- Supplied complete with two-meter long self-adhesive copper earthing tape
- Plug socket provides handy reference point when auditing floor
- Should be mounted on wall; dowels and screws not supplied
- Will ground an area up to 10m x 20m
- Made in Britain

Part No.	Description
210320	Floor Grounding Kit



210320



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IONISER SELECTION CHART

Model	Type	# of Fans	Airflow Rate	Offset Voltage Balance	Decay Times	Alarms	Special Features
200005	Bench Top	1	47 L / sec	±3V Auto	< 2 sec. at 30.5 cm from charged plate analyzer	Visual & Alarms	Sense feedback balancing
50640	Bench Top	1	16 L / sec	±5V Typical ±20V Maximum	< 2 sec. at 30.5 cm from charged plate analyzer	Visual & Alarms	Mini compact size
50670	Bench Top	1	47 L / sec	±3V Typical ±5V Maximum	< 2 sec. at 30.5 cm from charged plate analyzer	Visual & Alarms	Sense feedback balancing
200261	Overhead	2	80 L / sec	±10V Auto	< 2 sec. at 45.7 cm from charged plate analyzer	Visual & Alarms	3 fan speeds
50671	Overhead	2	94 L / sec	±3V Auto	< 2 sec. at 45.7 cm from charged plate analyzer	Visual & Alarms	Stainless steel housing
200260	Overhead	3	141 L / sec	±10V Auto	< 2 sec. at 45.7 cm from charged plate analyzer	Visual & Alarms	3 fan speeds
50672	Overhead	3	141 L / sec	±3V Auto	< 2 sec. at 15.2cm from charged plate analyzer (30 PSI)	N/A	Stainless steel housing
200004	Point-of-Use	N/A	2 L / sec @ 2 Bar	±25V Adjustable	< 2 sec. at 15.2cm from charged plate analyzer (30 PSI)	N/A	Ion Python Foot Switch
200045	Point-of-Use	N/A	2 L / sec @ 2 Bar	±25V Adjustable	< 2 sec. at 15.2cm from charged plate analyzer (30 PSI)	N/A	Ion Python Hand Gun
50644	Point-of-Use	N/A	2 L / sec @ 2 Bar	±30V Adjustable	< 1 sec. at 15.2cm from charged plate analyzer (30 PSI)	N/A	Modular Ergonomic Design Hand Gun

Ionisation

Vermason Ionisers - Designed for Europe

Per IEC 61340 5-1 paragraph 5.2.9, "Ionisers shall enable either polarity of charge on items to be brought down and maintained to less than 100 V." IEC 61340-5-2 paragraph 5.2.9 states that "Ionisers should be considered as a method for charge neutralisation in cases where grounding cannot be achieved. Air ionisation can neutralise the static charge on insulated and isolated objects by producing separate charges in the molecules of the gases of the surrounding air. When a static charge is present on objects in the work environment, it will be neutralised by attracting opposite polarity charges from the ionised air. Note that ionisation systems should not be used as a primary means of charge control on conductors or people. As with all ionisers, periodic maintenance will be needed to provide optimum performance. To select the best ioniser for your application, IEC 61340-5-2 paragraph 5.2.9 advises, "The following list contains important points for the selection process: charge neutralisation, discharge time, ion balance, product sensitivity, solution to static problem, environmental considerations, airflow; physical dimensions."

Ionisers do not replace or eliminate the need for wrist straps or foot grounders. However, in areas where insulators must be used, an ioniser can minimise problems resulting from static charges. In addition ionisation minimizes ElectroStatic Attraction (ESA), reducing contamination of airborne particles adhering to parts.

Vermason's top-of-the-line ionisers are made in America and manufactured at our Chino, CA, USA factory by our well-trained production team. Customised circuitry is wave soldered and each ioniser is tested and calibrated to NIST traceable standards.



See our products being
Made in America
on our web site:
Desco.com/Factory





BENCH TOP IONISER

- Neutralises electrostatic charge
- Features steady state DC ionisation and patented (US Patent #4,974,115) Sense Feedback Balancing - achieves ion balance control and high output
- Small and compact - easy to move and takes up little space
- Rapid access maintenance - designed to be easily and quickly disassembled for cleaning or replacing emitter points. This method removes the contamination from the work area instead of redistributing it.
- Made in America

Part No.	Description
200005	Bench Top Ioniser, 220V (Power cord must be ordered separately)
200155	Emitter Point Tip Cleaner, Pack of 20
200165	Replacement Emitter Points, Pack of 100
200220	Power Cord for Continental Europe (Schuko) 2 pin
200225	Power Cord for UK/Ireland/Asia 3 pin
200230	Balance Alarm Programmer



200005

Ionisation

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EMIT BENCH TOP ZERO VOLT IONISER

- The best balancing ioniser available
- Offset voltage controlled to ± 3 Volts typical
- Features steady state DC ionisation and EMIT's patented (US Patent #4,974,115) Sense Feedback balancing
- Rapid Access Maintenance
- CSA approved
- Made in America

EMIT Patented Technology
Now with 5 year warranty!

Part No.	Description
50670	Zero Volt Ioniser, 220V (Power cord must be ordered separately)
200155	Emitter Point Tip Cleaner, Pack of 20
200160	Replacement Emitter Points for ZVI, Pack of 8
200165	Replacement Emitter Points, Pack of 100
200220	Power Cord for Continental Europe (Schuko) 2 pin
200225	Power Cord for UK/Ireland/Asia 3 pin
200230	Balance Alarm Programmer



50670

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EMIT MINI ZERO VOLT IONISER

- Neutralises electrostatic charge
- Powered by 24 volts DC; AC adapter must be ordered separately
- Ultra compact size - 13.3cm H x 8.9cm W x 4.3cm D
- Low offset voltage with feedback alarms
- Two fan speeds, high and low
- Made in America

EMIT Patented Technology
Now with 5 year warranty!

Part No.	Description
50640	Mini Ioniser (Power supply must be ordered separately)
200155	Emitter Point Tip Cleaner, Pack of 20
200160	Replacement Emitter Points for ZVI, Pack of 8
200165	Replacement Emitter Points for System ZVI, Pack of 100
200170	Power Adapter, 2 Pin, 220V, Euro Specs
200175	Power Adapter, 3 Pin, 220V UK/Asia Specs



50640

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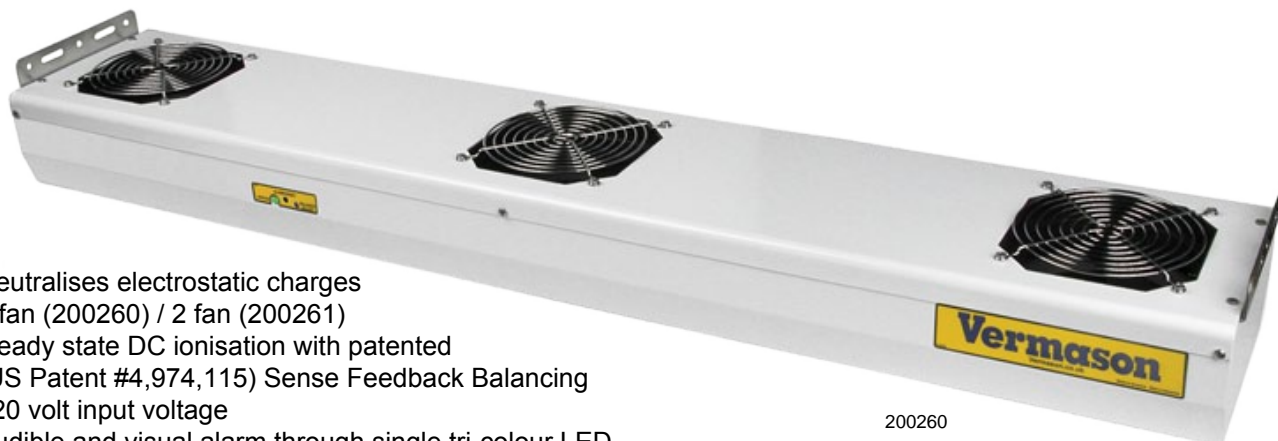


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CHARGEBUSTER OVERHEAD IONISER



- Neutralises electrostatic charges
- 3 fan (200260) / 2 fan (200261)
steady state DC ionisation with patented (US Patent #4,974,115) Sense Feedback Balancing
- 220 volt input voltage
- Audible and visual alarm through single tri-colour LED
- 3 position fan speed: low, medium, high
- Made in America

200260



Part No.	Description
200260	109cm Chargebuster Overhead Ioniser, 220V (Power cord must be ordered separately)
200261	61cm Chargebuster Overhead Ioniser, 220V (Power cord must be ordered separately)
200155	Emitter Tip Point Cleaner, Pack of 20
200160	Replacement Emitter Points for ZVI, Pack of 8
200165	Replacement Emitter Points, Pack of 100
200220	Power Cord, 2 Pin, 220 volt, Euro Specs
200225	Power Cord, 3 Pin, 220 volt UK/Asia Specs

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EMIT OVERHEAD ZERO VOLT IONISER

NEW!

- Neutralises electrostatic charge
- Best overhead ioniser now available from Vermason
- Low balance (offset voltage) - balance ± 3 volt, typically; ± 5 volts maximum controlled via patented (US Patent #4,974,115) Sense Feedback Balancing
- Fast discharge time - tested at 3.1 seconds under fan $\pm 1,000$ volts to ± 100 volts per EN 61340-5-1 (46cm under fans)
- Made in America

50671



Part No.	Description
50671	Overhead Zero Volt 2 Fan Ioniser, 220V (Power cord must be ordered separately)
50672	Overhead Zero Volt 3 Fan Ioniser, 220V (Power cord must be ordered separately)
200155	Emitter Point Tip Cleaner, Pack of 20
200160	Replacement Emitter Points for ZVI, Pack of 8
200165	Replacement Emitter Points, Pack of 100
200325	Remote Control Infrared, Battery Operated
200220	Power Cord for Continental Europe (Schuko) 2 pin
200225	Power Cord for UK/Ireland/Asia 3 pin

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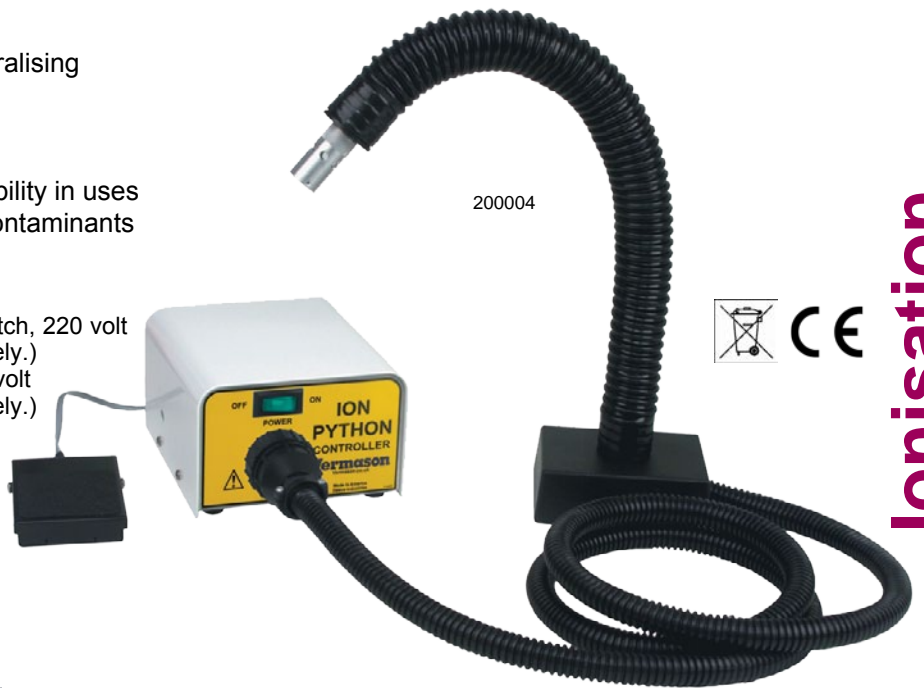


ION PYTHON SYSTEM

- Eliminates electrostatic attraction by neutralising and blowing particles off products
- Rugged construction; long life
- Intermittent duty
- Offset voltage (balance) adjustable - flexibility in uses
- Replaceable air filter - keeps air free of contaminants
- Made in America

Part No.	Description
200004	Controller, Air Nozzle, Hose, Foot Switch, 220 volt (Power cord must be ordered separately.)
200045	Controller, Hand Gun with Hose, 220 volt (Power cord must be ordered separately.)
200050	Ion Python Attachment
200055	Foot Switch
200065	Nozzle/Hand Gun Attachment
200070	Replacement Filter, 2-pack

Download Technical Bulletin [TB-7530](#)



Ionisation



Localised, accurate static control

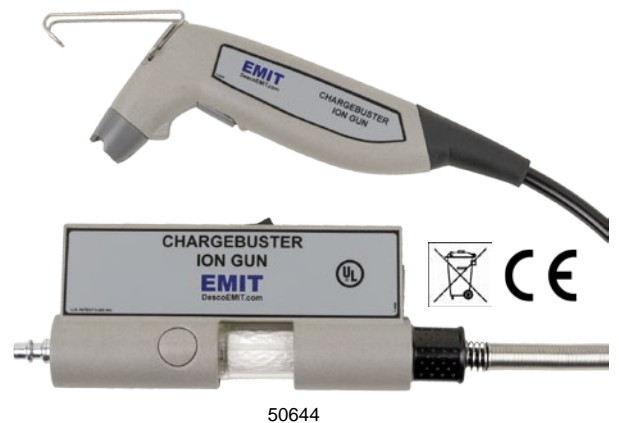
EMIT ION CHARGEBUSTER GUN

- Compressed air ioniser; neutralizes electrostatic charges to eliminate attraction, visual imperfections, and contamination issues by dislodging charged dust and debris
- Fast, < 1 second Discharge Times with ± 30 volt offset voltage balance; tested per ANSI/ESD STM 3.1
- Intermittent duty
- Modular design with 2m ESD protective hose and trigger switch
- Use filtered air or nitrogen – no adjustment required
- Console mounting hardware included
- 1-Year Limited Warranty
- 220 volt Power supply included

Part No.	Description
50644	Chargebuster Ion Gun, 220 volt
50646	Replacement Filter, In-Line, Ion Gun, Pack of 3

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NEW!



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TESTER SELECTION CHART

Test Equipment

	<u>222610</u> <u>222611</u>	<u>225220</u>	<u>222506</u> <u>222504</u>	<u>222507</u>	<u>222514 /</u> <u>222508</u>	<u>222518</u>	<u>222535</u>	<u>222550 /</u> <u>222551</u>	<u>50750 /</u> <u>50751 /</u> <u>50746 /</u> <u>50747</u>
									
Single-Wire Wrist Strap	✓	✓	✓	✓	✓	✓	✓	✓	✓
Dual-Wire Wrist Strap								✓	✓
Footwear	✓			✓		✓	✓	✓	✓
Independent Testing								✓	✓
Mountable	✓		✓	✓	✓	✓	✓	✓	✓
Portable	✓	✓							
Relay Output							✓	✓	✓
Data Acquisition									✓

"All Vermason testers are in accordance with EN 61340-5-1 Annex A test methods A.1 and/or A.2"

Vermason Testers - Designed for Europe

The decision to purchase Vermason ESD control products should be an easy one. A high-tech company's analysis is that when properly implemented, money spent on the ESD control programme will provide a financial return of ninety-five to one in savings, getting better quality with fewer reworks, rejections, and returns. That's a £95 return for every £1! That's a ROI of 9,500%!

To get that 95 to 1 financial return, your ESD control products must be working. A quick test with a charged plate analyser will quickly demonstrate that wrist straps and foot grounders nearly instantaneously remove generated electrostatic charges to ground. However, there must be an electrical path to ground. IEC 61340-5 requires that an organization verify the effectiveness of their ESD control program. To make sure the money you invest is providing a return, use Vermason Combo Testers and require your workers to daily or twice daily test the integrity of their wrist straps and foot grounders. Or to save more money, use our Continuous Monitors to continuously verify the effectiveness of your ESD protected working station and simultaneously satisfy IEC 61340-5 and ISO logging requirements.





EMIT SMARTLOG TESTER V4 WITH SOLID STATE TESTER

NEW!

- By touching the electrode button once, the SmartLog V4™ tests the resistance path limits of the wearer's wrist strap or ESD garment and both ESD footwear, independently and within one second
- The software manages personnel and ESD test data
 - [TEAM5 Software Operation Manual](#)
 - [TEAM5 Software Comparison Chart](#)
- Employee ID table - easily update the user list
- Test options include:
 - Footwear with wrist optional
 - User choice – allows user to chose test performed; 1) Wrist 2) Foot or 3) Both
- Split footplate design allows for individual footwear testing all in one test
- New solid state touch test design with no moving parts provides a reliable solution for high volume wrist strap and foot ground testing
- No need to dedicate a computer
- Team 5 Basic software included
- All required components included in system
- Independent audible and visual alarm conditions
- Reads Code 39 and Code 128 Barcode
- [5-year limited warranty](#)
- [Customer Checklist](#)
- [Troubleshooting Guide](#)
- Made in America



50750



Wrist strap range: 750 Kiloohm - 35 Megohm
Footground range: 750 Kiloohm - 35 Megohm

Part No.	Description
50746	SmartLog V4, 220 volt, with Keypad and Software
50747	SmartLog V4, 220 volt, with Keypad, without Software
50750	SmartLog V4, 10mm adapter, 220 volt
50751	SmartLog V4, 10mm adapter, 220 volt without software
50491	Team 5 Enterprise Software License, 1 Year
50493	Team 5 Software License, 1 Year
50380	Card Reader
50443	Laser Barcode Scanner
50446	Numeric Keyboard Attachment
50586	Interchangeable Blades, for Adapter, UVLM, UK Plug
50587	Interchangeable Blades, for Adapter, UVLM, Euro Plug
50480	Adapter, 12 VDC, North American Plug
222728	Ethernet Adapter, 10/100

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New and
Improved Version

EMIT Patented Technology
Now with 5 year warranty!

Use our Calibration
Units to Calibrate your
Vermason Testers

[See page 47](#)

Test Equipment



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web site: [Click Here](#)

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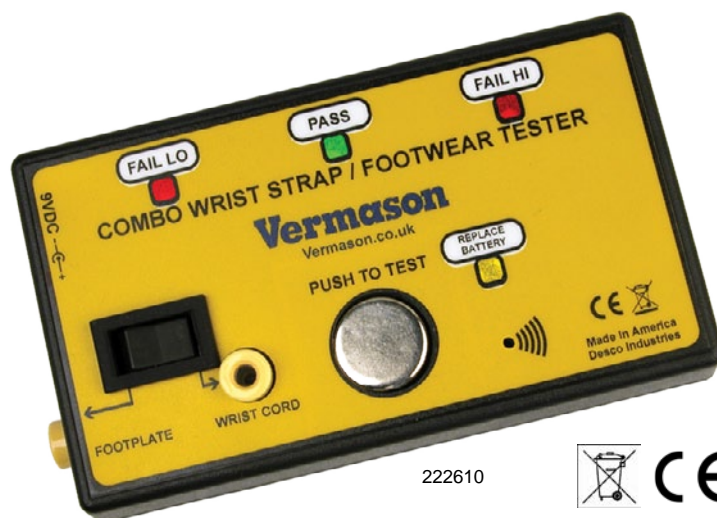
COMBO TESTER

- Dual test circuits - versatile, tests footwear and wrist straps
- Positive rocker switch actuation - reliably changes test mode
- LED's display clear test results - simple operation
- Made in America

Wrist strap range: 750 Kilohm - 35 Megohm
Footground range: 750 Kilohm - 35 Megohm

Part No.	Description
222610	Combo Tester
222611	Combo Tester with Stand
222612	Footplate for Combo Tester
222625	AC Adapter, 220VAC
222650	Calibration Unit

Download Technical Bulletin [TB-7533](#)



222610



To see our full range of Wriststraps see [Page 5 - 7](#)

COMBO TESTER X3 WITH STAND

- Simultaneous testing of wrist strap and foot wear in up to 3 seconds
- Split foot plate allows both foot grounders (or shoes) to be tested independently
- Solid state touch test button with no moving parts; increase accuracy of testing and lifetime of product
- 30 Volt test signal; provides accurate tests that are not humidity dependent
- Relay for use with automatic doors or other locking systems allows for controlled access to ESD protected areas
- NIST calibrated with certificate; calibrated with accepted procedures and standards traceable to the National Institute of Standards and Technology. For more information on calibration of Vermason products, see [Calibration](#)
- Made in America

Stand

- Allows Combo Tester X3 to set up in convenient area for testing of operators
- Heavy gauge black powder-coated construction
- Minimizes corrosion and other contamination when used in clean or sensitive areas
- Made in America

Part No.	Description
222550	Combo Tester X3 with Dual Footplate
222551	Combo Tester X3 with Dual Footplate and Stand
222553	Combo Tester X3 with Dual Footplate & 10mm Snap Adaptor
222554	Combo Tester X3 with Stand & 10mm Snap Adaptor
222552	Stand for Combo Tester X3
222650	Calibration Unit

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222552

NEW!



222550



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HIGH SPEED, HIGH ACCURACY COMBINED FOOTWEAR / WRIST STRAP TESTER

- Checks the resistance of the shoes, heel grounders, toe grounders or wrist straps of the wearer
- Indicates two pass levels: 10 Megohms (1×10^7 ohms) and 35 Megohms (3.5×10^7 ohms) as recommended in EN 61340-5-1
- Very fast response: <2s reduces queues
- 9 volt battery included, power supply available separately
- Made in Britain

Part No.	Description
222518	Combined Test Station
222529	220 volt Power Supply, UK
222530	220 volt Power Supply, Europe

Download Technical Bulletin [TB-7538](#)

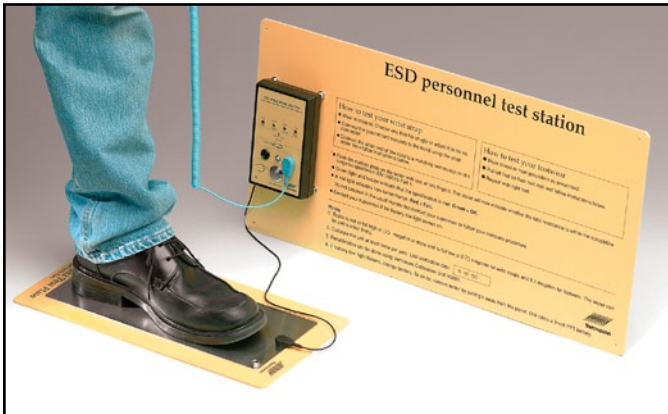


222518



Test Equipment

Top selling tester



FOOTWEAR TEST PLATES

- Choice of two sizes
- Stainless steel mounted on an insulated yellow vinyl base with anti-skid pads
- 222502 is the most popular plate
- Lead wire is not included
- Made in Britain

Part No.	Description
222502	Single Foot Size: 340mm x 140mm
222501	Two Footed Size: 400mm x 325mm



222502



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Unit C, 4th Dimension, Fourth Avenue, Letchworth, Hertfordshire, SG6 2TD, United Kingdom
Tel: +44 (0)1462 672005 • Fax: +44 (0)1462 670440
E-mail: Service@Vermason.co.uk • Web: Vermason.co.uk



PERSONNEL TEST STATION WITH OUTPUT CONTACT

- Output contact can be used to connect to a door latch, beacon or other apparatus - a contact for each LED and signal indicates that a test is in progress
- Output contact rating: 50 volt AC/DC, 0.5A
- ON/OFF output signal is 9VDC, 0.1A
- Supplied with wall panel, 222502 foot plate, battery, calibration certificate, 1.5m output lead and free end to connect to device controller
- Optional power supply needs to be ordered separately: UK Version: 222529, EURO Version: 222530
- Made in Britain



Part No.	Description
222535	Output Contact Personnel Test Station
222529	220 V Power Supply, UK
222530	220 V Power Supply, Europe
223002	Calibration Unit

Download Technical Bulletin [TB-7540](#)

COMPACT WRIST STRAP / FOOTWEAR TESTER

- Popular tester for less intensive use that meets EN 61340-5 basic requirements
- LEDs indicate pass, fail high and fail low as well as battery low
- Fail high level: 35 Megohms; fail low level: 0.75 Megohm
- 9 volt test voltage powered by PP3 battery
- Made in Britain and America

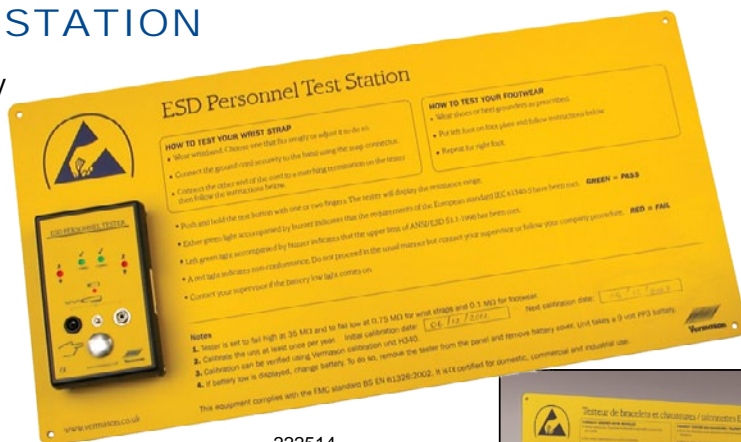


Part No.	Description
222507	Wrist Strap and Footwear Test Station
223001	Calibration Unit

Download Technical Bulletin [TB-7507](#)

HIGH SPEED, HIGH ACCURACY WRIST STRAP TESTER AND TEST STATION

- 24 volt test voltage, digital circuit: $\pm 3\%$ accuracy
- Very fast response: <2 seconds; avoids queues at the test station
- Pushing test button activates ON/OFF switch and initiates the test
- LED and buzzer indicate fail low, pass <10 Megohms (1×10^7 ohms), pass <35 Megohm (3.5×10^7 ohms) or fail high; buzzer sounds on pass
- Made in Britain



Part No.	Description
222508	Wrist Strap Tester
222514	Wrist Strap Test Station
222529	220 volt Power Supply, UK
222530	220 volt Power Supply, Europe
223002	Calibration Unit

Download Technical Bulletin [TB-7537](#)



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COMPACT WRIST STRAP TESTER

- Popular tester for less intensive use that meets EN 61340-5-1 basic requirements
- LEDs indicate pass, fail high and fail low as well as battery low
- Fail high level: 35 Megohms; fail low level: 0.75 Megohm
- 9 volt test voltage powered by PP3 battery
- Made in Britain and America

Part No.	Description
222506	Wrist Strap Tester and Wallplate
222504	Wrist Strap Tester
223001	Calibration Unit

Download Technical Bulletin [TB-7507](#)



222506



222504



AC OUTLET ANALYSER AND WRIST STRAP TESTER

- Verifies proper AC outlet wiring and ground path integrity, enabling effectiveness of grounding products
- Internal audit tool; tests to practical resistance limits
- Convenient, easy to test wrist strap at lab or workstation
- Made in America

Part No.	Description
224713	AC Outlet Analyser and Wrist Strap Tester, UK Plug
224714	AC Outlet Analyser and Wrist Strap Tester, Euro Plug

Download Technical Bulletin [TB-7509](#)



224713



WRIST STRAP TESTER, 9V BATTERY

- Portable small package; supervisor can use to spot check users on shop floor
- For use with [Single Wire Wrist Straps](#)
- Battery powered 9 volt tester; no adapter needed
- Test results include fail low, pass, and fail high; if wrist strap fails, the operator will know if the failure is too high or too low
- Test can be performed during normal use at the workstation; improved productivity, workers can test without having to leave the workstation
- Range: 800 Kilohm - 10 Megohm
- NIST calibrated with certificate; calibrated with accepted procedures and standards traceable to the National Institute of Standards and Technology
- For more information on calibration of Vermason products, see [Calibration](#)
- Made in America

Part No.	Description
225220	Wrist Strap Tester, 9 volt Battery



225220



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LIMIT COMPARATOR FOR TESTERS

- Resistance limits set to specific values; use to calibrate tester by verify resistance range
- Selector knob to select resistance; quickly and accurately able to change ranges
- Six ranges: 10 Kiloohms (1x10E4 ohms), 100 Kiloohms ohms (1x10E5 ohms), 1 Megohm (1x10E6 ohms), 10 Megohms (1x10E7 ohms), 35 Megohms (3.5x10E7 ohms), 100 Megohms (1x10E8 ohms), and 1 Gigohms (1x10E9 ohms); versatile tool able to handle all ranges whether for foot grounders, wrist straps, ESD shoes
- For use with items [222550](#) and [222551](#)
- Made in America

Part No. Description
[222696](#) Limit Comparator for Testers

Download Technical Bulletin [TB-7573](#) and [TB-7574](#)

NEW!



222693



New and Improved Version

CALIBRATION UNIT

- Calibrates Item [222610](#) / [222611](#) Combo Tester
- Simple operation; designed for both wristband and footground tester calibration
- Passive unit; requires no power source
- Made in America

Part No. Description
[222650](#) Calibration Unit

Download Technical Bulletin [TB-7542](#)



222650



CALIBRATION UNIT

- Calibrates items [222504](#), [222506](#) and [222507](#)
- No power supply needed
- Made in Britain

Part No. Description
[223001](#) Calibration Unit



223001



NEW!

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CALIBRATION UNIT

- Use to calibrate wrist strap, footwear or combined testers
- Versatile, works with most makes of tester
- Accuracy is $\pm 3\%$
- Supplied with 10mm socket to 10mm socket adapter, test certificate and instructions for use
- Calibrates items [222508](#), [222514](#), [222518](#) and [222535](#)
- Made in Britain

Part No. Description
[223002](#) Calibration Unit

Download Technical Bulletin [TB-7543](#)



Test Equipment

SURFACE RESISTANCE TEST KIT

- Accurately measures R_p-p or R_G for quick checks, factory audits, or test lab evaluation of product; versatile tool measuring surface resistance as exponent number illuminates immediately, but designed to measure for full 15 second electrification period and exceeds accuracy requirements of EN 61340-5-1 Annex A
- Meter measures ambient temperature and relative humidity; available when required for test records
- Colour coded LED and digital LCD read-out - easy to read, no interpretation needed; can easily be used for quick go/no go checks
- Made in America

Meter Weight: 439g
 Dimensions: 203mm (L) x 109mm (W) x 41mm (H)
 Power Supply: Two AA alkaline batteries

Part No. Description
[222630](#) Surface Resistance Test Kit
[222631](#) Meter Only
[222632](#) Resistivity Attachment (Optional)
[222633](#) Leads for Electrodes (set of 2)
[222634](#) Electrodes for Surface Resistance Test Kit, 2.3kg (set of 2)

Download Technical Bulletin [TB-7545](#)



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ANALOGUE SURFACE RESISTANCE METER

NEW!

- Analog compliance verification surface resistance checker; used for determining if a surface is dissipative, conductive or insulative
- Automatic test range voltage selection per compliance verification ESD EN 61340-5-1; starts tests at 10 volts and automatically switches to 100 volts if the measurement is over 10E5 ohms
- Portable operation with 9 volt battery; no charging or sourcing of special batteries needed
- LED illuminates when battery power is low
- Prevents operator from making bad measurements
- Test kit includes set of 2.2kg electrodes and leads
- Use with the meter to measure resistance point-to-point (Rp-p) and resistance to ground (Rg)
- NIST calibrated with certificate; calibrated with accepted procedures and standards traceable to the National Institute of Standards Technology
- Made in America

Part No.	Description
222635	Analog Surface Resistance Test Kit
222636	Analog Surface Resistance Test Leads
222637	Analog Surface Resistance Test Meter
222634	Electrode Pair, 2.27 kg



New and Improved Version!

SURFACE RESISTANCE CHECKER

- Automatically selected 10 volt and 100 volt test voltage
- Fitted with a built in 15-second timer to help user to comply with EN guidelines
- Range 10E3 to 10E12 ohm
- Built-in parallel electrodes or switch to use one or two 2.2kg electrodes
- Made in Britain

Part No.	Description
225717	Surface Resistance Checker
225718	Kit including two 222008 Cylindrical Probes and leads



Download Technical Bulletin [TB-7547](#)

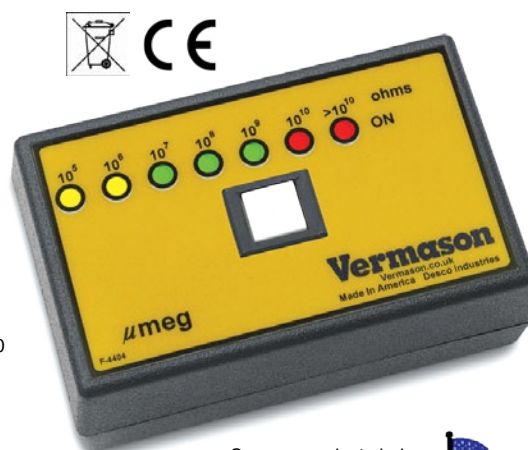
μMEG™ POCKET MEGOHMMETER

- Quick indication of surface resistivity and surface-to-ground resistance (ground cord included)
- Small, convenient pocket-size mini tester; perfect for fast spot-checking of dissipative and conductive surfaces
- Replaceable 9 volt battery; easy operator replacement
- Made in America

Surface Resistivity: Range to 10E10 ohms
 Surface-to-Ground Resistance (R_G): Range to 10E9 ohms

Part No.	Description
222640	Tester, 9VDC Battery

Download Technical Bulletin [TB-7548](#)



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CONCENTRIC RING PROBE

- Use for testing surface resistance to EN 61340-5-1 and ESD S11.11
- Available with carbon loaded conductive pads
- Probe resistance with carbon loaded pads: <500 ohms
- Made in Britain

Part No.	Description
222003	Probe Kit with Cable and Carry Case
222002	Concentric Ring Probe

Download Technical Bulletin [TB-7549](#)



CYLINDER PROBES

- Used to measure point to point resistance (R_p -p), resistance to ground (R_G) and volume resistance (R_v) in accordance with EN 61340-5
- Carbon loaded conductive rubber pads that do not mark the surface to be tested
- Internal resistance <50 ohms
- Made in Britain

Part No.	Description
222008	63mm, 2.3kg, Black Probe
222009	Boxed Set with Two 222008

Download Technical Bulletin [TB-7550](#)



TIP!

Where there is a field, there is also a charge!
Use a field meter to determine and demonstrate the presence of electrostatic charges.

ESD SURVEY KIT

- Everything needed to conduct an ESD control program survey
- Kit includes all the tools required to survey to fulfill your EN 61340-5-1 Compliance Verification Plan
- Contents:
 - (1) [50598](#) Ionisation Test Kit (includes Digital Static Field Meter)
 - (1) [50553](#) HBM Test Fixture
 - (1) [222630](#) Surface Resistance Test Kit
 - (1) [222632](#) Resistance Meter Attachment
 - (1) [224713](#) Outlet Analyser
 - (1) Fluke 114-A Meter
 - (1) [229904](#) Jewel Wrist Strap
 - (1) [249250](#) Foot Grounder
 - (1 set) Training Paddles
 - (1) Heavy duty carrying case
- Made in America

Part No.	Description
222685	ESD Survey Kit

Download Technical Bulletin [TB-6568](#)

222685



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EMIT DIGITAL STATIC FIELD METER / IONISATION TEST KIT

- Portable electrostatic meter for ESD testing of static fields; an effective problem solving tool that may be used to identify items that are able to be charged
- Optical distance indicator; ensures accuracy and repeatability
- HOLD Button; allows the measurements to be retained for easy reading
- Auto-ranging; easy to use and operate; no adjustments
- LCD display; easy to read; no interpretation necessary
- Conductive plate Accessory; 50567 with metal allows the user to measure the discharge times of air ionisation equipment
- Human body model (HBM) test fixture accessory; 50553 with ion test kit allows user to approximate electrical charges generated on the human body while walking or moving
- Test kit upgrade; 50566 test kit upgrade includes charger and conductive plate
- 5-Year Limited Warranty
- Made in America



Part No.	Description
50597	Digital Static Field Meter
50598	Complete Field Meter / Ion Test Kit
50566	Portable Test Kit Upgrade, for Ionisers
50567	Charging Plate for Field Meter
50553	Personal HBM Test Fixture

Download Technical Bulletin [TB-6567](#)

Now with 5 year warranty!

CHARGED PLATE ANALYSER

- Audits ioniser's overall performance - precisely measures offset voltage (balance) and discharge times
- Digital display - eliminates user interpretation of results, easy to read
- Precise measurement of static charges on isolated conductive plate
- Made in America

Part No.	Description	222670
222670	Charged Plate Analyser, 220 volt, (Power cord must be ordered separately)	
200220	Power Cord for Continental Europe (Schuko) 2 pin	
200225	Power Cord for UK/Ireland/Asia 3 pin	

Download Technical Bulletin [TB-7555](#)





CONTINUOUS MONITOR SELECTION CHART

	<u>222600</u> 	<u>222605</u> 	<u>222740</u> 	<u>50515</u> 	<u>50537</u> 
Single-Wire	✓	✓	✓		
4mm Parking Stud	✓	✓	✓		
10mm Parking Stud	✓	✓			
Dual-Wire				✓	✓
Operator(s) Monitored	1	1	2	2	2
Zero Volt Monitoring					✓
Audible & Visual Alarm	✓	✓	✓	✓	✓
Working Surface(s) Monitored	1	1	2	2	2
Point-to-Point Working Surface Monitoring	✓	✓			
Point-to-Ground Working Surface Monitoring			✓	✓	✓

FEATURES AND BENEFITS OF VERMASON WAVE DISTORTION TECHNOLOGY

- Real-time monitoring of ESD workstation including wrist strap, mat, and cords.
Pays for itself - ensures ESD protected workstation, reducing catastrophic and latent defects.
- Utilizes reliable wave distortion technology; provides true 100% continuous monitoring; cannot be fooled; no false alarms; not pulsed current which is off over 90% of the time.
- Can be used with any brand of single-wire wrist strap and cord; with less expensive, more durable single-wire components, life-cycle costs of monitor/wrist strap/cord are up to 66% lower than dual-wire approach.
- Miniscule electrical current required to generate waveform; no reported case of skin irritation.
- Designed for use by 1.5 m tall 40.8 kg person to 1.83 m 113.8 kg person; individual adjustment for each operator is almost never necessary.
- Provided with calibration to European standards; simple means to assure accurate performance; lower calibration life cycle costs.





DUAL OPERATOR CONTINUOUS MONITOR WITH SATELLITES

- Control unit LEDs indicate proper grounding of two mats and two operators; allows mounting of control unit at eye level, not using any working surface area
- Two satellite remote monitors include monitored wrist strap ground, parking stud, and unmonitored ground for guest or equipment
- Utilises reliable wave distortion technology; provides true 100% continuous monitoring
- Made in America



222740



Working surface requires conductive layer

Operator wrist strap range:

1 Megohm to 10 Megohms (1 x 10E6 to 1x10E7 ohms)

Part No. Description

[222740](#) Dual Operator Monitor 220V with 2 Satellites, with 2 each

[229904](#) Single-Wire Jewel® Elastic Wrist Strap Kits (Includes 222601 adapter)

[222741](#) Replacement Satellite

[222601](#) Adapter for Monitors, 24VAC 220V, IEC Input Universal (Separate power cord required for the power adapter)

[200220](#) Power Cord, Europe

[200225](#) Power Cord, UK / Asia

[222750](#) Calibration Unit

Download Technical Bulletin [TB-7558](#)

Check out the set-up of a typical EPA

JEWEL® WORKSTATION CONTINUOUS MINI MONITOR

- Small size: 70mm x 53mm; takes up minimal working surface area
- Utilises reliable wave distortion technology - provides true 100% continuous monitoring. Cannot be fooled; no false alarms. Not pulsed current which is off over 90% of the time.
- Two 10mm threaded studs installed on bottom of unit to snap monitor flush on mat
- Made in America



222600



Working surface requires conductive layer

Operator wrist strap range:

1 Megohm to 10 Megohms (1 x 10E6 to 1x10E7 ohms)

Part No. Description

[222600](#) Continuous Mini Monitor, Sapphire, 220 volt (Power adapter must be ordered separately)

[222601](#) Power adapter, 220 volt, IEC Input Universal (Separate power cord required for the power adapter)

[200220](#) Power Cord, Europe

[200225](#) Power Cord, UK / Asia

[222750](#) Calibration Unit

Download Technical Bulletin [TB-7559](#)

TIP!
“Constant on-line monitors can be used so that any breaks will be immediately found.”
(IEC-61340-5-2 clause 5.2.7 Wrist Strap)

MONITOR CALIBRATION UNIT

- Passive device with no power source required
- Multiple jacks
- Calibrates [222600](#), [222740](#) and [222605](#)
- Made in America

222750

Part No. Description

[222750](#) Monitor Calibration Unit, NIST



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EMIT DUAL OPERATOR PROGRAMMABLE RESISTIVE LOOP WORKSTATION MONITOR

NEW!



- Dual wire continuous monitors provide redundancy; even if one dual wire wrist strap conductor is severed, operator has reliable path-to-ground with the other wire
- Patented resistance loop monitoring technology
- Monitoring of two operators and two continuous ground connections independently
- For use with dual-wire wrist straps
- Adjustable alarm level
- Independent alarming conditions: audible and visual
- Resistance, programmable, no manual adjustment necessary
- Visual display for all status
- Test for proper calibration with the [50524](#) dual-wire monitor limit comparator
- Does not include power supply. Use [50540](#) power supply in Europe.
- Made in America



50515



Part No.	Description
50515	Dual Operator Programmable Resistive Loop Workstation Monitor
50586	Interchangeable Blades, for Adapter, UVLM, UK Plug
50587	Interchangeable Blades, for Adapter, UVLM, Euro Plug
50480	Adapter, 12 VDC, North American Plug
50525	Replacement Black Remote / Guest Jack
50526	Replacement Grey Remote / Guest Jack
50540	Power Supply, 220 volt, Europe, 2 Pin
50524	Limit Comparator for Dual Wire Monitors

Download Technical Bulletin [TB-6514](#)

EMIT Patented Technology
Now with 5 year warranty!

Continuous Monitors

SINGLE WIRE MULTI-MOUNT CONTINUOUS MONITOR

- Continuously monitors the integrity of one operator and one working surface, eliminating the need for periodic testing and recording. Ideal for individual workstations for assembly, test, packaging or other applications.
- Wave distortion technology provides real-time continuous monitoring for operator path to ground and presence of 1 Megohm resistor
- True continuous monitoring (versus pulsed or intermittent) of wrist strap functionality and operator safety according to accepted industry standards
- Easy to install housing with screws or adhesive backed velcro® strips; optional mounting suitable to most machinery and work area, even in hard to reach locations
- Calibration unit available for accurate performance and conformity testing in the field (see Vermason item 222750 [Click Here](#))
- Calibrated with accepted procedures and standards traceable to the National Institute of Standards and Technology. For more information on calibration of Vermason products, see [Calibration](#)
- Made in America

NEW!



Part No.	Description
222605	Single Wire Multi-Mount Continuous Monitor, 220 volt
222601	Adapter, 24 VAC, 220V, IEC Input Universal
222750	Calibration Unit
200220	Power Cord, Europe
200225	Power Cord, UK / Asia

Download Technical Bulletin [TB-7576](#)



222605



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E-mail: Service@Vermason.co.uk • Web: Vermason.co.uk



EMIT ZERO VOLT MONITOR

NEW!

- Dual Wire Continuous Monitors provide redundancy; even if one dual wire wrist strap conductor is severed, operator has reliable path-to-ground with the other wire
- Most advanced means of monitoring the ground path for operators, workstations, and equipment
- Equal opposite polarity signals bring operator to zero volts to ground
- For use with dual-wire wrist straps
- Durable stainless steel enclosure
- Test voltage signal +1.25 vdc and -1.25 vdc
- Operator charge detection
- Made in America

50537



Part No.	Description
50537	Zero Volt Monitor, with 2 Wrist Straps
222695	Power Supply, 3 Pin, 220 volt, UK/Asia Specs
222694	Power Supply, 2 Pin, 220 volt Euro Specs
50586	Interchangeable Blades, for Adapter, UVLM, UK Plug
50587	Interchangeable Blades, for Adapter, UVLM, Euro Plug
50480	Adapter, 12 VDC, North American Plug
50524	Limit Comparator for Dual Wire Monitors

Download Technical Bulletin [TB-6515](#)

EMIT Patented Technology
Now with 5 year warranty!

EMIT LIMIT COMPARATOR FOR DUAL WIRE MONITORS

- Verifies the calibration of the [50515](#) and [50537](#) zero volt monitor
- Checks 4 operator conditions: fail low, pass safe (low limit), pass safe (high limit), and fail high
- Made in America

50524



Part No.	Description
50524	Limit Comparator for Dual Wire Monitors

Download Technical Bulletin [TB-6515](#)

We perform ESD training and surveys

Contact customer service to make an appointment.

NEW!

PERSONNEL STATIC CHARGE VISUALISER STATICHECK™

- Shows the electrostatic potential of the operator from 0 to ±5,000 volt
- Can be mounted outside an EPA for training and checking purposes
- Can also show the effect of grounding the operator
- Inside an EPA it can be used to demonstrate that operator potential is below a desired limit
- Made in America

Part No.	Description
223509	Staticheck™ Charge Visualiser with Ground Cord, Battery, Case

Download Technical Bulletin [TB-7570](#)



223509

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[Desco.com/Factory](#)





ESD BAG SELECTION CHART

Physical Properties	Statshield-Standard-Metal In Bags	Statshield-Standard-Metal Out Bags	Statshield-ESD-Moisture Barrier Bags	Bubble Shielding Bags	Antistatic Pink Bags	Antistatic Pink Bubble Bags	Conductive Black Bags
Resistance of polyester outer layer	10E11 ohms	10E8 ohms	10E12 ohms	10E9 to 5 x 10E11 ohms	1010 to 1011 ohms	10E10 to 10E12 ohm	10E5 ohms
Resistance of aluminium layer	10E2 ohms	10E2 ohms	10E2 ohms	10E10 to 10E12 ohms	-	-	-
Resistance of polyethylene	10E11 ohms	10E12 ohms	10E12 ohms	-	10E11 ohms	10E11 ohms	10E11 ohms
Aluminium metal layer location	Between polyester & polyethylene	Outer layer coated with abrasive resistant coating	Dual metal layers between plastic layers	Between polyester & polyethylene	-	-	-
Faraday Cage ESD shielding	Yes	Yes	Yes	Yes	No	No	No
Energy penetration (nanojoules)	<25	<20	<50				
Thickness (nominal)	3.0 mil	3.0 mil	3.6 mil	5mm (height of bubbles)	2.7 mil	5mm (height of bubbles)	2.8 mil
Puncture resistance	>10#	>10#	>20#	>25lbs			
Moisture barrier MVTR	<0.40 grams	<0.40 grams	<0.02 grams	<0.2 grams	>0.8gr/m2 24 hr at 50% rH & 20°C		>0.8gr/m2 24 hr at 50% rH & 20°C
Application	Transport or store ESDs outside protected area	Substitute for Metal In where end user requires	Stands up to many automatic vacuum packaging operations	Transport or store ESD sensitive items that require mechanical protection outside an EPA	Economical bags for use with non-ESD sensitive items destined for use in an EPA	Economical bags for use with non-ESD sensitive items that require mechanical protection destined for use in an EPA	Ideal for storage of ESD sensitive items within an ESD controlled storage area
Durability	Good	Less Durable	Superior	Good	Less Durable	Good	Good
Available with Zipper	Yes	Yes	No	No	Yes	No	No
Part Numbers	201015 - 201560	202100 - 202280	204549 - 204610	200510 - 200545	203000 - 204155	202505 - 202530	203530 - 203700

Packaging

Vermason ESD Bags - Designed for Europe

We refuse to put your products at risk. We use only the highest quality materials in our full line of static shielding bags. Vermason bags are made in America at our Canton, MA facility on specially designed bag machines. Great care is given to produce the finest quality bags.

ESD Bags meet EN 61340 5-1 requirement:

- “low charging packaging exhibiting properties which minimize any charge generation” (paragraph 3.18.1)
- “electrostatic discharge shielding barrier or enclosure that limits the passage of current and attenuates the energy resulting from an electrostatic discharge such that the maximum energy from 1 000 V human body model discharge is less than or equal to 50 nJ.” (paragraph 3.18.2)
- Identified with ESD packaging symbol, manufacturer, and batch identification number (paragraph 4.1.2)



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STATSHIELD® TRANSPARENT METAL-IN STANDARD ESD SHIELDING BAGS

- ESD shielding limits energy penetration from ESD and electrostatic charges
- Rs: 10E9 to 5 x 10E11 ohms inside and out
- Protects ESD sensitive items
- Good see-through clarity
- Sold 100 per pack
- [Click HERE](#) to see how to determine the correct size bag for your application
- Made in America

Thermal Transfer does not flake or peel off!



201105

Low Charging Zipper!

Custom Sizes and Printing Available!

For Self-Adhesive Labels [CLICK HERE](#)



Part No.	Internal Dimensions (W x L)
201015	75mm x 125mm (3" x 5")
201025	100mm x 150mm (4" x 6")
201040	100mm x 760mm (4" x 30")
201050	125mm x 200mm (5" x 8")
201065	150mm x 200mm (6" x 8")
201070	150mm x 255mm (6" x 10")
201071	150mm x 760mm (6" x 30")
201105	200mm x 255mm (8" x 10")
201110	200mm x 305mm (8" x 12")
201115	200mm x 405mm (8" x 16")
201120	255mm x 305mm (10" x 12")
201130	255mm x 355mm (10" x 14")
201135	255mm x 610mm (10" x 24")
201100	280mm x 380mm (11" x 15")
201140	305mm x 355mm (12" x 14")
201145	305mm x 405mm (12" x 16")
201150	305mm x 455mm (12" x 18")
201160	355mm x 455mm (14" x 18")
201161	380mm x 455mm (15" x 18")
201165	405mm x 455mm (16" x 18")
201175	405mm x 610mm (16" x 24")
201180	455mm x 455mm (18" x 18")
201190	455mm x 610mm (18" x 24")
201210	610mm x 760mm (24" x 30")
201500	75mm x 125mm (3" x 5"), with zipper
201510	100mm x 150mm (4" x 6"), with zipper
201511	100mm x 735mm (4" x 29"), with zipper
201515	125mm x 200mm (5" x 8"), with zipper
201520	150mm x 200mm (6" x 8"), with zipper
201525	150mm x 255mm (6" x 10"), with zipper
201526	150mm x 735mm (6" x 29"), with zipper
201530	200mm x 255mm (8" x 10"), with zipper
201535	200mm x 305mm (8" x 12"), with zipper
201540	255mm x 305mm (10" x 12"), with zipper
201545	255mm x 610mm (10" x 24"), with zipper
201546	255mm x 355mm (10" x 14"), with zipper
201547	280mm x 380mm (11" x 15"), with zipper
201550	305mm x 405mm (12" x 16"), with zipper
201551	305mm x 455mm (12" x 18"), with zipper
201552	355mm x 455mm (14" x 18"), with zipper
201553	380mm x 455mm (15" x 18"), with zipper
201555	455mm x 455mm (18" x 18"), with zipper
201556	455mm x 610mm (18" x 24"), with zipper
201560	505mm x 505mm (20" x 20"), with zipper

Download Technical Drawings [201000](#) and [201500](#)





STATSHIELD® TRANSPARENT METAL-OUT ESD SHIELDING BAGS

- Aluminum metal outer layer of laminated film metal-out required by many end-users; meets requirements of MIL-PRF-81705D, Type III
- Shielding protects ESD sensitive items
- Integral antistatic, low tribocharging properties bags will not electrostatically charge during movement
- Resistance of outer surface: <math><10E8</math> ohms
- [Click HERE](#) to see how to determine the correct size bag for your application
- Made in America

Part No.	Internal Dimensions (W x L)
202100	75mm x 125mm (3" x 5")
202105	100mm x 150mm (4" x 6")
202110	100mm x 760mm (4" x 30")
202115	125mm x 200mm (5" x 8")
202120	150mm x 255mm (6" x 10")
202125	150mm x 760mm (6" x 30")
202130	200mm x 255mm (8" x 10")
202135	200mm x 305mm (8" x 12")
202140	255mm x 305mm (10" x 12")
202145	255mm x 355mm (10" x 14")
202150	255mm x 610mm (10" x 24")
202155	280mm x 380mm (11" x 15")
202160	305mm x 405mm (12" x 16")
202165	305mm x 455mm (12" x 18")
202170	380mm x 455mm (15" x 18")
202175	455mm x 455mm (18" x 18")
202180	455mm x 610mm (18" x 24")

202200	75mm x 125mm (3" x 5"), with zipper
202205	100mm x 150mm (4" x 6"), with zipper
202215	125mm x 200mm (5" x 8"), with zipper
202220	150mm x 255mm (6" x 10"), with zipper
202225	150mm x 760mm (6" x 30"), with zipper
202230	200mm x 255mm (8" x 10"), with zipper
202235	200mm x 305mm (8" x 12"), with zipper
202240	255mm x 305mm (10" x 12"), with zipper
202245	255mm x 355mm (10" x 14"), with zipper
202250	255mm x 610mm (10" x 24"), with zipper
202255	280mm x 380mm (11" x 15"), with zipper
202260	305mm x 405mm (12" x 16"), with zipper
202265	305mm x 455mm (12" x 18"), with zipper
202270	380mm x 455mm (15" x 18"), with zipper
202275	455mm x 455mm (18" x 18"), with zipper
202280	455mm x 610mm (18" x 24"), with zipper

Download Technical Drawings [202100](#) and [202220](#)

BUBBLE SHIELDING BAGS

- Combines "Faraday Cage" and mechanical protection
- Shields about twice as well as normal shielding bag of equivalent size
- Rs inside and out: $10E10$ to $5 \times 10E11$ ohms
- [Click HERE](#) to see how to determine the correct size bag for your application
- Made in Britain

Part No.	W x L + FLAP
200510	100mm x 150mm + 25mm (4" x 6" + 1")
200515	150mm x 255mm + 25mm (6" x 10" + 1")
200520	200mm x 255mm + 25mm (8" x 10" + 1")
200530	255mm x 305mm + 50mm (10" x 12" + 2")
200535	305mm x 405mm + 50mm (12" x 16" + 2")
200540	355mm x 455mm + 50mm (14" x 18" + 2")
200545	455mm x 455mm + 50mm (18" x 18" + 2")

Download Technical Drawing [200510](#)



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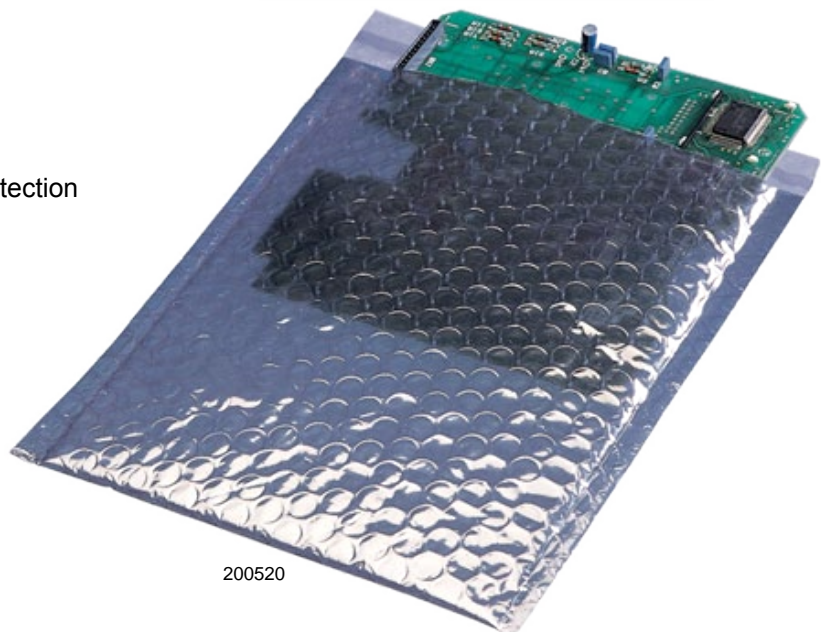
Thermal Transfer does not flake or peel off!



202130

Low Charging Zipper!

Custom Sizes and Printing Available!



200520



STATSHIELD® MOISTURE BARRIER SHIELDING BAGS

- Provide ESD and moisture protection
- Film thickness: 90 micron (3.6mil)
- Bag is opaque, printed and designated as ESD moisture barrier bag
- Used to pack SMD reels or trays and IC tubes
- Use with humidity indicator cards and dessicant
- Rs: <10E11 ohms at 15% rH
- [Click HERE](#) to see how to determine the correct size bag for your application
- Made in America

Part No.	Internal Dimensions (W x L)
204549	125mm x 200mm (5" x 8")
204550	150mm x 255mm (6" x 10")
204551	200mm x 255mm (8" x 10")
204552	255mm x 305mm (10" x 12")
204575	255mm x 610mm (10" x 24")
204580	255mm x 660mm (10" x 26")
204581	255mm x 760mm (10" x 30")
204585	305mm x 405mm (12" x 16")
204586	380mm x 455mm (15" x 18")
204595	400mm x 455mm (16" x 18")
204605	455mm x 455mm (18" x 18")
204610	455mm x 610mm (18" x 24")

Download Technical Drawing [204580](#)



204580

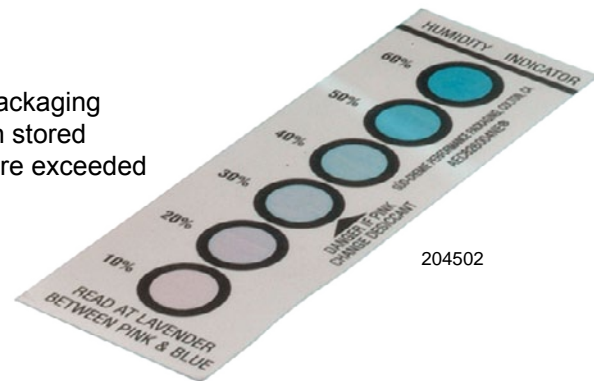
Storage problems?
Check out our shelf
liner on [Page 20](#)

HUMIDITY INDICATOR CARDS

- Low-cost method of verifying the effectiveness of moisture barrier packaging
- Indicates the relative humidity level at which the contents have been stored
- Colour changes quickly and clearly from pink to blues as rH levels are exceeded
- Made in Britain

Part No.	Description
204502	6 spot, 40mm x 120mm, can of 200

Download Technical Drawing [204502](#)



204502

DESICCANT

- Sold in packs of 600
- For use in conjunction with moisture barrier bags whenever moisture control is a critical factor in the packaging of electronic products
- At 50% rH and 25°C it will absorb 27% water by weight
- Packed in woven, non-leaching HDPE sachets
- Meets Mil D-3464E, DIN 55473A and B and Afnor 00321 requirements
- Made in Britain

Part No.	Description
204514	Desiccant, 1/2 Unit (10g), Pack Of 600
204516	Desiccant, 1 Unit (25g), Pack Of 300

Download Technical Drawing [204515](#)



204514



ANTISTATIC PINK BAGS

- For use with non-ESD sensitive items destined for use in an EPA
- Economical
- Made of polyethylene, 0.070mm thick
- Rs: 10E10 to 10E11 ohms, T₁₀₀₀: < 2 sec at 50% rH, 22°C
- [Click HERE](#) to see how to determine the correct size bag for your application
- Made in Britain

Part No.	Internal Dimensions (W x L)
204020	100mm x 150mm (4" x 6")
204040	150mm x 255mm (6" x 10")
204035	150mm x 200mm (6" x 8")
204055	200mm x 255mm (8" x 10")
204070	255mm x 305mm (10" x 12")
204075	255mm x 355mm (10" x 14")
204095	305mm x 405mm (12" x 16")
204100	305mm x 455mm (12" x 18")
204155	610mm x 915mm (24" x 36")
203000	75mm x 125mm (3" x 5") with write-on panels, with zipper
203005	100mm x 150mm (4" x 6") with write-on panels, with zipper
203010	125mm x 200mm (5" x 8") with write-on panels, with zipper
203015	150mm x 200mm (6" x 8") with write-on panels, with zipper
203020	150mm x 255mm (6" x 10") with write-on panels, with zipper
203025	200mm x 255mm (8" x 10") with write-on panels, with zipper
203030	255mm x 355mm (10" x 14") with write-on panels, with zipper
203040	100mm x 150mm (4" x 6"), with zipper
203045	125mm x 200mm (5" x 8"), with zipper
203055	150mm x 255mm (6" x 10"), with zipper
203065	255mm x 355mm (10" x 14"), with zipper

Download Technical Drawings [204020](#) and [203000](#)

Not sure what bag you need?
[Check out our bag selection chart](#)

ANTISTATIC PINK BUBBLE BAGS

- Suitable for use in an EPA
- Provide mechanical protection
- Made of pink-tinted, amine-free, antistatic polyethylene
- Rs: 10E10 to 10E12 ohm, T₁₀₀₀: < 2 sec at 50% rH
- [Click HERE](#) to see how to determine the correct size bag for your application
- Made in Britain

Part No.	Internal Dimensions (W x L)
202505	90mm x 110mm, no flap
202515	130mm x 185mm
202520	180mm x 235mm
202530	280mm x 360mm

Download Technical Drawing [202505](#)



204055



202520

Packaging



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CONDUCTIVE BLACK TUBING AND BAGS

- Tough, puncture resistant, often re-used
- Made of linear polyethylene with carbon added, 0.07mm thick
- Rs: 10E3 to 5 x 10E5 ohms, independent of humidity
- Heat sealable, recyclable
- [Click HERE](#) to see how to determine the correct size bag for your application
- Made in Britain

Part No.	Internal Dimensions (W x L)	Unit
203530	100mm x 100mm (4" x 4"), Bag	100
203535	100mm x 150mm (4" x 6"), Bag	100
203540	100mm x 305mm (4" x 12"), Bag	100
203555	125mm x 200mm (5" x 8"), Bag	100
203575	150mm x 200mm (6" x 8"), Bag	100
203580	150mm x 255mm (6" x 10"), Bag	100
203600	200mm x 255mm (8" x 10"), Bag	100
203605	200mm x 305mm (8" x 12"), Bag	100
203620	255mm x 305mm (10" x 12"), Bag	100
203645	305mm x 405mm (12" x 16"), Bag	100
203675	405mm x 455mm (16" x 18"), Bag	100
203700	455mm x 610mm (18" x 24"), Bag	100
203510	75mm (3"), Conductive Tubing	500m
203560	150mm (6"), Conductive Tubing	500m
203590	200mm (8"), Conductive Tubing	500m
203630	305mm (12"), Conductive Tubing	500m



203600

[Download Technical Drawing 203530](#)

PROTEKTIVE PAK DISSIPATIVE CORRUGATED SMALL COMPONENT SHIPPER

- Efficient means of shipping or storing small ESD sensitive items
- Static dissipative surface of 10E6- 10E8 ohms
- Made in America

Part No.	Description
37003	Small Component Shipper, 87mm x 54mm x 25mm

[Download Technical Drawing 37000.E](#)



37003

PROTEKTIVE PAK DISSIPATIVE CORRUGATED CIRCUIT BOARD SHIPPER

- Economical, efficient method of storing static sensitive electronic devices
- Constructed from a unique buried conductive layer of impregnated corrugated fiberboard with a static dissipative surface
- Made from 100% recycled material and is 100% recyclable
- Made in America

Part No.	Description
37051	Box with Foam, 102mm x 102mm x 54 mm
37081	Box with Foam, 157mm x 152mm x 38 mm
37053	Box with Foam, 178mm x 127mm x 38 mm
37055	Box with Foam, 178mm x 127mm x 64 mm
37057	Box with Foam, 229mm x 191mm x 64 mm
37085	Box with Foam, 229mm x 229mm x 38 mm
37061	Box with Foam, 267mm x 216mm x 64 mm
37065	Box with Foam, 318mm x 267mm x 64 mm
37067	Box with Foam, 378mm x 168mm x 51 mm
37071	Box with Foam, 394mm x 318mm x 64 mm
37073	Box with Foam, 406mm x 311mm x 89 mm
37087	Box with Foam, 406mm x 381mm x 76 mm
37079	Box with Foam, 521mm x 394mm x 64 mm

37050	Box Only, 102mm x 102mm x 54 mm
-----------------------	---------------------------------

[Download Technical Drawing 37050.E](#)



37050

NEW!

Superior protection
with impregnated
corrugated material

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Desco.com/Factory



CONDUCTIVE CUSHIONING FOAM

- Carbon impregnated open-cell flexible polyurethane foam, density 24kg/m³ minimum
- Ideal for cushioning purposes, non-corrosive
- Rs: <2 x 10E4 ohms; Rv <10E3 ohms
- Supplied in sheets 1m or cut to order
- Made in Britain

Part No.	Thickness, Size
241500	6mm x 1m x 1m, Sheet
241505	6mm x 305mm x 305mm, Pack of 9
241510	10mm x 1m x 1m, Sheet
241515	25mm x 1m x 1m, Sheet
241520	30mm x 1m x 1m, Sheet

Download Technical Drawing [241500](#)



241500 - 241520

Packaging

CONDUCTIVE PIN-INSERTION FOAM

- Carbon impregnated high density open-cell polyurethane foam, density 35 to 55kg/m³
- Provides mechanical and ESD protection, retains devices by their pins, non-corrosive
- Brings inserted terminals and pins to equipotential
- Rs: <10E4 ohms; Rv: <10E3 ohms
- Made in Britain

Part No.	Thickness, Size
241530	6mm x 1m x 1m, Sheet
241540	6mm x 305mm x 305mm, Pack of 9
241545	6mm x 305mm x 305mm, Pack of 10
241550	10mm x 1m x 1m, Sheet
241555	10mm x 305mm x 305mm, Pack of 9

Download Technical Drawing [241530](#)



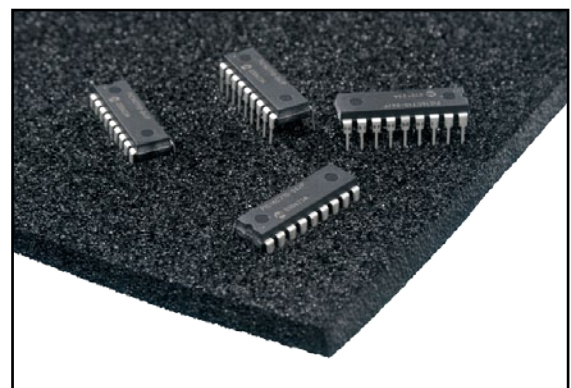
241530

CONDUCTIVE CLOSED-CELL PIN-INSERTION FOAM

- Cross-linked, closed-cell polyethylene foam
- Excellent chemical and physical stability; good for long term storage
- Ideal pin-insertion and pin-retention characteristics
- Rs: 10E3 to 10E5 ohms; Rv: <10E3 ohms density 32kg/m³
- Brings inserted terminals and pins to equipotential

Part No.	Thickness, Size
241560	6mm x 1m x 2m, Sheet
241565	6mm x 0.5m x 1m, Sheet
241570	6mm x 0.25m x 0.25m, Sheet
241575	6mm x 0.33m x 0.5m, Sheet

Download Technical Drawing [241560](#)



241560



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RIGID CONDUCTIVE BOXES

- Provide good ESD and mechanical protection
- Made of conductive polypropylene; Rs, Rv: <math><10E5</math> ohms
- Strong box with integrally hinged lid
- Available empty or with foam lining
- Made in Britain



Part No.	Internal Dimensions (L x W x H)
241060	35mm x 35mm x 11mm, Empty
241065	35mm x 35mm x 11mm, 6mm HD in Base Only
241045	75mm x 51mm x 14mm, Empty
241050	75mm x 51mm x 14mm, 6mm HD in Base/FX in Lid
241025	90mm x 64mm x 16mm, Empty
241030	90mm x 64mm x 16mm, 6mm HD in Base/FX in Lid
241010	108mm x 83mm x 13mm, Empty
241015	108mm x 83mm x 13mm, 6mm HD in Base/FX in Lid
241105	138mm x 97mm x 33mm, Empty
241000	230mm x 128mm x 20mm, Empty
241005	230mm x 128mm x 20mm, 6mm HD in Base/FX in Lid
241085	230mm x 128mm x 30mm, Empty
241090	230mm x 128mm x 30mm, 6mm HD in Base/FX in Lid
241095	230mm x 128mm x 40mm, Empty
241100	230mm x 128mm x 40mm, 6mm HD in Base/FX in Ld

HD = High density pin insertion foam - 35kg to 55kg per cubic meter
 FX = Flexible open cell cushioning foam - minimum 24kg per cubic meter

Download Technical Drawing [241000](#)

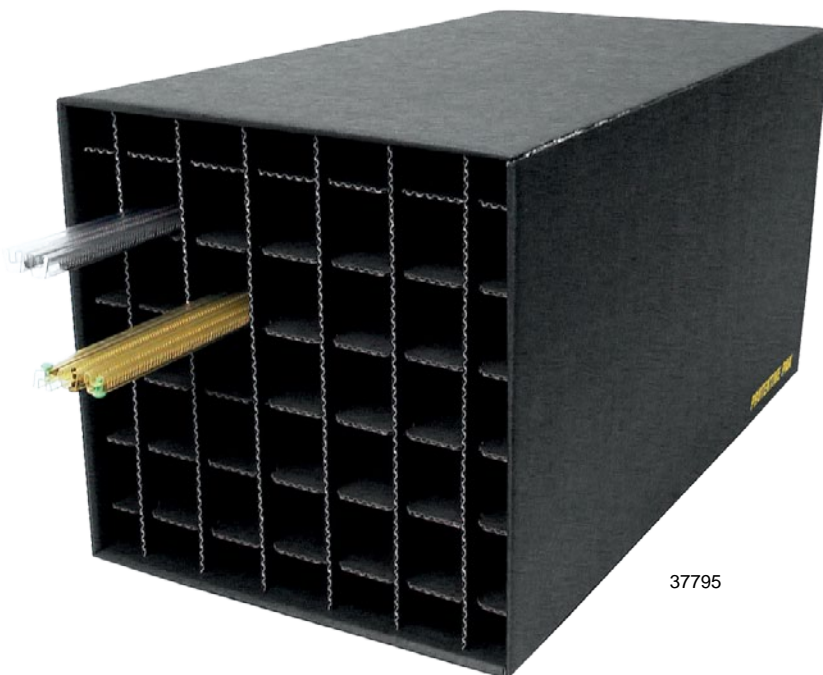
PROTEKTIVE PAK TUBE HANDLERS

NEW!

- Economical and efficient way to store and transport DIP Tubes and Rails
- Static dissipative surface of $10E6 - 10E8$ ohms
- Made from 100% recycled material, and is 100% recyclable
- Reusable, ensuring best value
- Lead-free RoHS compliant
- Made in America

Part No.	Description
37795	Tube Handler, 610mm x 305mm x 610mm, Cell Size 48mm x 48mm x 610mm
37793	Tube Handler, 305mm x 305mm x 610mm, Cell Size 48mm x 48mm x 610mm

Download Technical Drawing [37790.E](#)



Superior protection with impregnated corrugated material



TACK EXTRACTOR

- Tack extractor is the convenient and safe way to remove tacks from IC tubes
- Made in America

Part No.	Description
243220	Extractor



CONDUCTIVE HOOK-AND-LOOP STRAP

- Safe to use in an ESD protected area (EPA)
- Used to bundle IC tubes, boxes and other items
- Made of loop with conductive thread in backing tape and conventional black loop
- Rs: 10E3 to 10E5 ohms; T₁₀₀₀: <2 sec
- Made in Britain

Part No.	Description
243315	40cm
243320	45cm
243340	50cm
243325	60cm
243330	70cm
243331	90cm

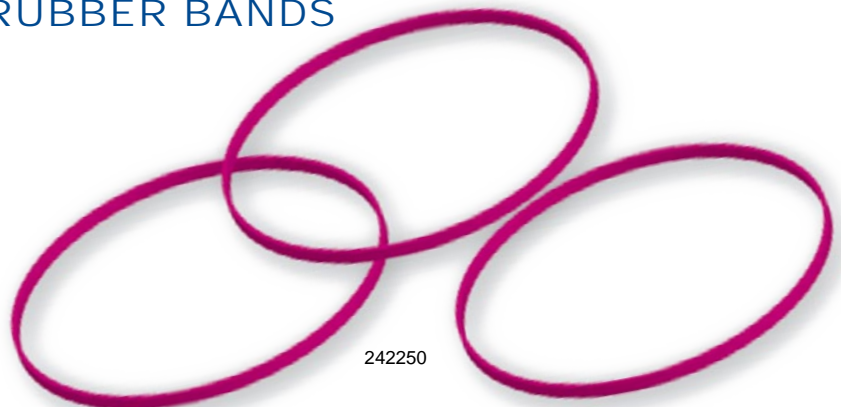


ANTISTATIC ELASTIC RUBBER BANDS

- Used to bundle IC tubes, IC trays, etc
- Suitable for use in ESD protected area (EPA), made of dust-free rubber
- Colour: pink
- Shelf life approximately one year

Part No.	Description
242250	Elastic band 60mm x 2mm, approximately 1650 per bag

Download [Technical Document 242250](#)





SELF ADHESIVE LABELS

- Supplied on release paper in rolls of 1000
- Printed black on yellow 80gsm gloss paper
- Individually wrapped in antistatic bag
- Made in Britain



Part No. Label Size (W x H) with ESD Susceptibility Symbol and Text

242145	45mm x 13mm
242100	25mm x 10mm
242105	40mm x 16mm
242110	50mm x 25mm
242155	150mm x 50mm
242125	76mm x 38mm

Part No. Label Size (W x H) with ESD Susceptibility Symbol

242135	5mm Square
242130	12.5mm Square
242140	50mm Square

Part No. Label Size (W x H) with ESD Protective Symbol and Text

242195	45mm x 13mm
242160	20mm x 10mm
242165	45mm x 25mm
242170	76mm x 38mm
242200	127mm x 50mm

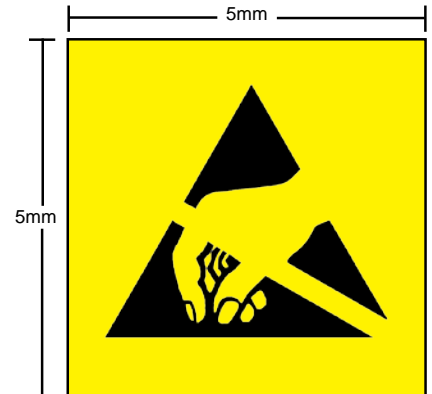
Part No. Label Size (W x H) with ESD Protective Symbol

242190	5mm Square
242175	12.5mm Square
242180	25mm Square
242185	50mm Square

Part No. Label Size (W x H)

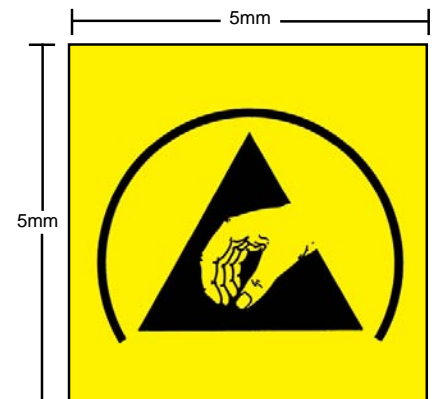
242150	50mm x 25mm English / French / German
242115	50mm x 25mm, German

ESD Susceptibility Symbol



242135

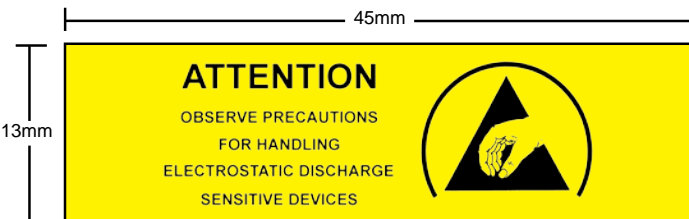
ESD Protective Symbol



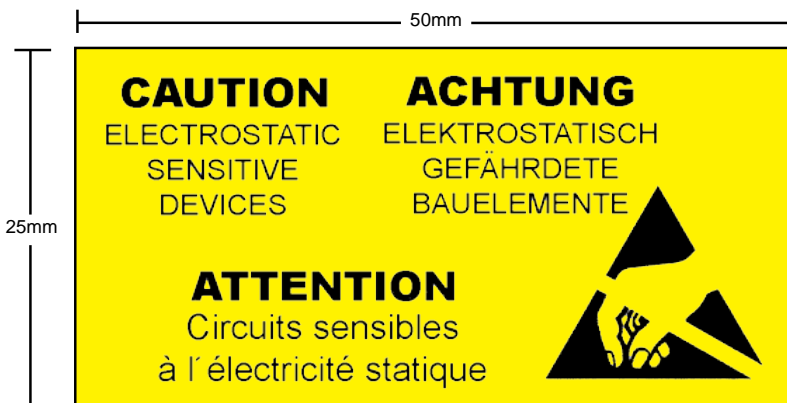
242190



242145



242195



242150

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on our web site:
Desco.com/Factory





CLEAR ANTISTATIC TAPE

- Generates low electrostatic charge even at 20% rH, can be used in an ESD protected Area (EPA)
- Used to seal shielding bags or boxes, or to attach labels
- Rs: 10E9 to 10E11 ohms, T₁₀₀₀: <2 sec at 25% rH
- Made in Britain

Part No.	Width, Length
242220	12mm, 66m Roll
242225	25mm, 66m Roll

Download Technical Drawing [242220](#)

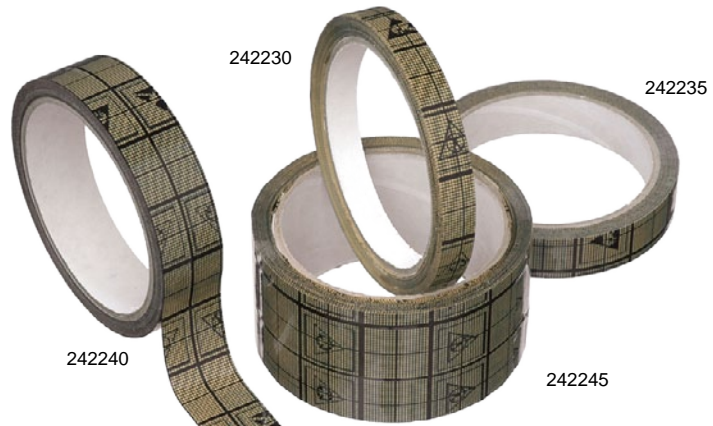


CONDUCTIVE GRID TAPE

- Polypropylene self-adhesive tape with static dissipative surface
- Silicone-free, low residue
- Rs: <10E10 ohms, T₁₀₀₀: <2 sec
- Used to seal primary and intimate packaging

Part No.	Width, Length
242230	12mm, 33m Roll
242235	18mm, 33m Roll
242240	24mm, 33m Roll
242245	48mm, 33m Roll

Download Technical Drawing [242230](#) and Material Safety Datasheet [TB-7307](#)



ESD TAPE DISPENSER

- Use with Wescorp and other brand antistatic tapes; can be used with standard 76mm core tapes
- Groundable housing and hardware
- Stainless steel construction; minimizes foreign objects debris, corrosion, and other contamination when used in clean or sensitive areas. Simplifies cleaning.
- Two separate spools turn independently
- Made in America

Part No.	Description
242256	ESD Tape Dispenser, 50mm

Download Technical Drawings [242256](#)



PACKAGING TAPE

- Suitable for sealing secondary packaging such as cartons
- Conventional PVC self adhesive yellow tape, not for use near unprotected ESD susceptible items
- Printed black with logo and text to EN 61340-5
- Made in Britain

Part No.	Width, Length
242210	50mm, 66m Roll

Download Technical Drawing [242210](#)



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NEW!

WESCORP™ ANTISTATIC CELLULOSE TAPE ON PLASTIC CORES

- Ideal in packaging for container sealing, static shielding bag closure, and holding DIP tubes
- Ideal for conformal coating or holding and sealing supplies in manufacturing
- **Lead-free RoHS compliant**
- Made in America

Part No.	Description	Width, Length, Core
242277	With Symbols and Yellow Stripe	48mm, 65.8m, 75.6mm
242276	With Symbols and Yellow Stripe	24mm, 65.8m, 75.6mm
242275	With Symbols and Yellow Stripe	18mm, 65.8m, 75.6mm
242274	With Symbols and Yellow Stripe	12mm, 65.8m, 75.6mm
242273	With Symbols	48mm, 65.8m, 75.6mm
242272	With Symbols	24mm, 65.8m, 75.6mm
242271	With Symbols	18mm, 65.8m, 75.6mm
242270	With Symbols	12mm, 65.8m, 75.6mm
242290	Without Symbols	12mm x 32.9m, 25.4mm
242291	Without Symbols	18mm x 32.9m, 25.4mm
242292	Without Symbols	24mm x 32.9m, 25.4mm
242293	Without Symbols	12mm x 65.8m, 75.6mm
242294	Without Symbols	18mm x 65.8m, 75.6mm
242295	Without Symbols	24mm x 65.8m, 75.6mm
242296	Without Symbols	48mm x 65.8m, 75.6mm

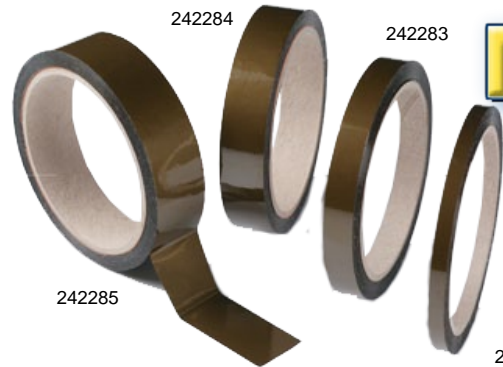


Download Technical Drawing [242270](#) and [242290](#)

WESCORP™ ANTISTATIC HIGH TEMP POLYIMIDE TAPE

- Designed for applications masking PCB gold features
- Removal leaves little or no residue
- Adhesive surface resistivity 10E3 to 10E4 ohms
- For best results apply to board using a rubber roller
- **Lead-Free RoHS Compliant**
- Made in America

Part No.	Width, Length
242285	24mm, 32.9m
242284	18mm, 32.9m
242283	12mm, 32.9m
242282	6mm, 32.9m



NEW!

Download Technical Drawing [242282](#)

WESCORP™ ANTISTATIC HIGH TEMP MASKING TAPE

- Economical crepe paper (7.0 mils thick) with high-tack
- Temperature resistance to a maximum of 135°C (275°F) for 45 minutes
- Surface resistance 10E8 - 10E11 ohms
- **Lead-Free RoHS Compliant**
- Made in America

Part No.	Width, Length
242281	48mm, 54.8m
242280	24mm, 54.8m
242279	18mm, 54.8m
242278	12mm, 54.8m



NEW!

Download Technical Drawing [242278](#)

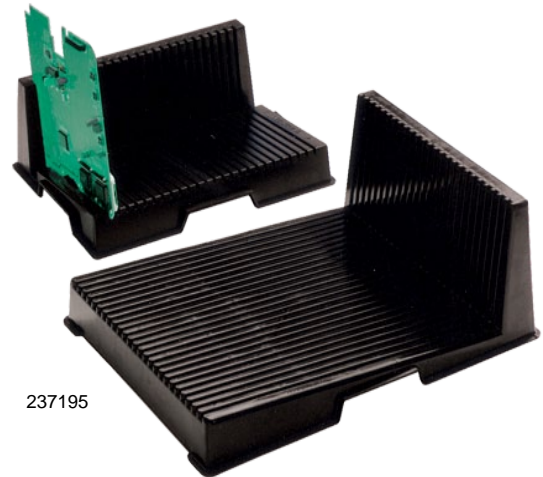


ANGLED PCB RACK

- Made of conductive polypropylene
- Two sizes
- Capacity: 25 boards
- 2mm (small rack) or 3mm (large rack) between two slots
- Rv: 10E3 to 10E5 ohms
- Made in America

Part No.	Description
237195	Angled PCB Rack, 208mm x 272mm x 93mm
237200	Angled PCB Rack, 355mm x 268mm x 128mm

Download Technical Drawing [237195](#)



237195

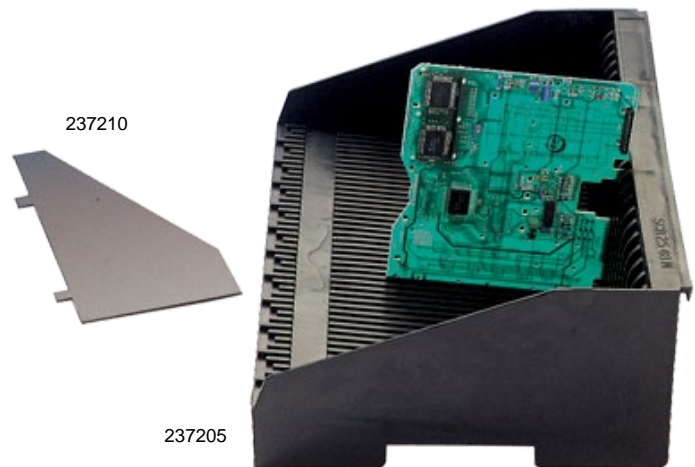
Check out our shelf
liner on [Page 20](#)

ANGLED PCB RACK, LARGE

- Can be hung on louvre panel or placed on bench
- Moulded of conductive polypropylene
- Optical snap-in dividers, 2mm thick conductive plastic
- Rv: 10E3 to 10E5 ohms
- Made in Britain

Part No.	Description
237205	Large Angled PCB Rack, 145mm x 286mm x 388mm
237210	Divider for Large Angled PCB Rack, Single

Download Technical Drawing [237195](#)



237210

237205

PCB RACKS

- Moulded from a carbon black-filled polypropylene compound
- Designed to protect CMOS loaded boards in storage
- Recommended maximum operating temperature is 85°C
- Recyclable
- Made in America

Part No.	Description
237215	PCB Rack, 175mm x 500mm
237220	PCB Rack, 215mm x 582mm
237225	PCB Rack, 140mm x 465mm, High Temperature
237230	PCB Rack, 140mm x 465mm, Surface Mount

Download Technical Drawing [237215](#), [237220](#), [237225](#) and [237230](#)



237220

PCB HOLDER, FLAT, STACKABLE

- Made of conductive polypropylene
- Rv: 10E3 to 10E5 ohms
- Can be stacked 75mm apart using set of four spacers;
- two spacers can be joined to handle boards up to 150mm tall
- Size: 355mm x 255mm x 14mm
- Made in Britain

Part No.	Description
237185	PCB Holder, Flat
237190	PCB Holder, Set of Two with Four Spacers



237185

237190



See our products being
Made in Britain on our
web site: [Click Here](#)



PCB CONTAINERS

- Injection moulded conductive polypropylene
- Flat base, stackable
- Rv: 10E3 to 10E5 ohms
- Internal dimensions: 555mm x 355mm or 355mm x 255mm, foam liner available

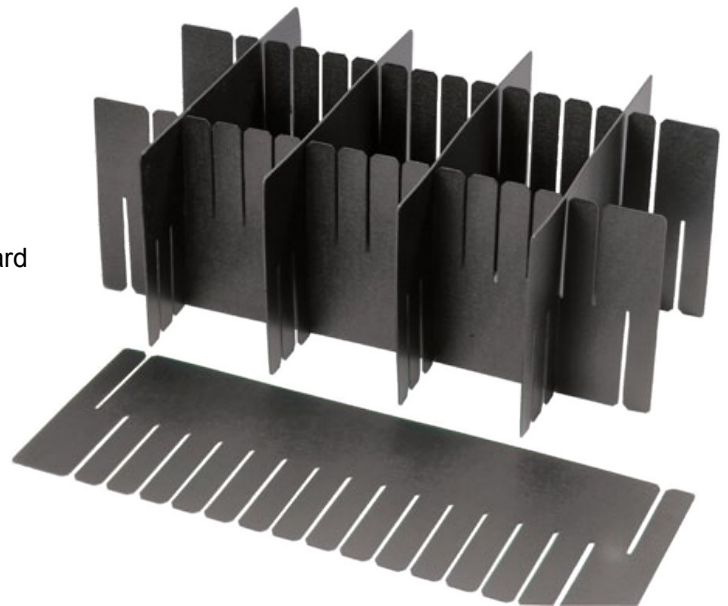
Part No.	External Dimensions (L x W x H)
239305	400mm x 300mm x 120mm
239320	400mm x 300mm x 220mm
239325	400mm x 300mm x 320mm
239330	600mm x 400mm x 75mm
239335	600mm x 400mm x 120mm
239340	600mm x 400mm x 150mm
239345	600mm x 400mm x 236mm
239350	600mm x 400mm x 280mm
239355	600mm x 400mm x 346mm
239360	Closure Clip
239310	Foam Liner, Conductive 6mm x 555mm x 355mm
239300	Conductive Lid 400mm x 300mm
239315	Conductive Lid 600mm x 400mm



Check out our shelf liner on [Page 20](#)

CUSTOM-MADE DIVIDERS FOR PCB CONTAINERS

- Machined from approximately 2mm thick conductive plastic or Cortronic® B-flute static dissipative cardboard
- Many shapes and sizes possible
- Process is suited for small and medium quantities
- Send drawing or .dxf file



LOW-CHARGING DRAWER INSERTS

- Sized to fit standard 61cm (24") and 91cm (36") tool cabinet
- Made of ABS using durAstatic® technology
- Permanently static dissipative, Rs: 10E9 to 10E10 ohms, T₁₀₀₀ <6 seconds
- Use in standard EPAs and in clean rooms to hold ESDS

Part No.	External Dimensions (L x W x H)
239870	75mm x 75mm x 26mm, One Cavity
239880	150mm x 75mm x 26mm, One Cavity



239870



PARTS BINS FOR LOUVRED PANELS

- Made of conductive polypropylene
- Six sizes, two largest have top bar to allow heavy loads
- Can be stacked or hung from louvered panel
- Rv: 10E3 to 10E5 ohms

Part No.	External Dimensions (L x W x H)
237120	95mm x 100mm x 50mm
237125	175mm x 100mm x 75mm
237130	235mm x 145mm x 125mm
237135	350mm x 200mm x 145mm
237140	350mm x 200mm x 200mm
237145	500mm x 300mm x 200mm



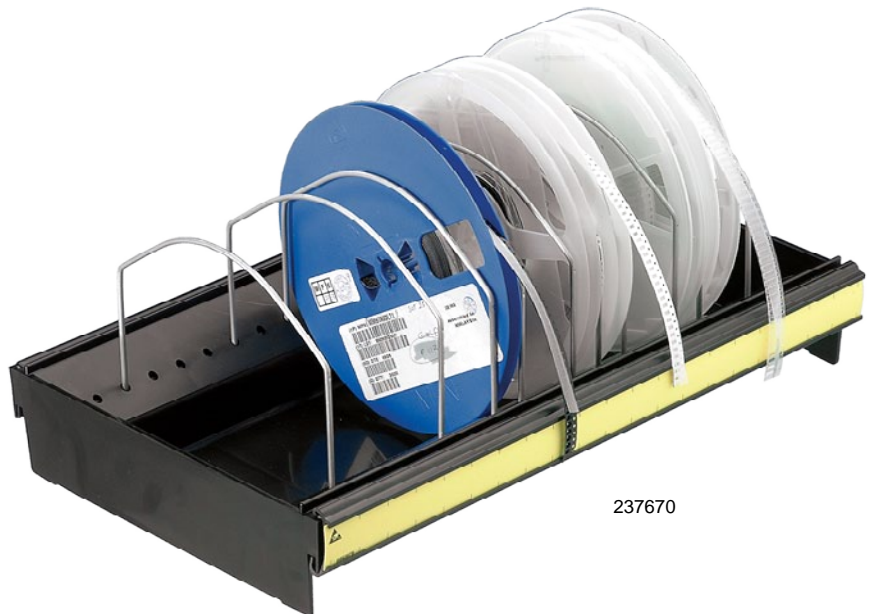
237120 - 237145

SMD REEL RACK

- Made of conductive polypropylene
- Divider made of stainless steel
- Rack supplied with ten dividing hoops
- Holds up to 19 reels up to 15mm wide
- Rv: 10E3 to 10E6 ohms

Part No.	Description
237670	Reel Rack with 10 Dividers
237675	Dividing Metal Hoop

Download Technical Drawing [237670](#)



237670

SMD REEL HOLDER

- Made of conductive cardboard
- Holds up to 16 reels up to 15mm wide
- Reel diameter: up to 330mm (13")
- Rv: 10E3 to 10E6 ohms
- 400mm x 250mm x 110mm overall
- Made in Britain

Part No.	Description
237680	SMD Reel Holder



237680



SMD REEL CONTAINER

- Holds reels during storage, transit and in-plant
- Empty containers are stackable
- Made of 3mm thick conductive polystyrene, strong and rigid
- Rv: 10E4 to 10E6 ohms

Part No.	L x W x H
237685	362mm x 188mm x 110mm, Reel Size: 180mm
237695	560mm x 365mm x 178mm, Reel Size: 330mm
237690	Divider for 180mm Container
237700	Divider for 330mm Container



237695

237685

SMD STORAGE UNIT WITH ROUND BOXES

- Moulded of conductive polypropylene
- Rv: 10E3 to 10E5 ohms
- Six drawers; each can hold up to 42 round 27mm boxes of item 237630
- External dimensions: 258mm x 273mm x 187mm

Part No.	Description
237650	Unit of 6 Drawers with 252 Boxes
237645	Drawer with 42 Boxes 238mm x 261mm x 20mm, Internal
237635	Insert with Cavities for 42 Boxes
237640	Drawer Empty 238mm x 261mm x 20mm, Internal



237650

SMD ROUND BOX

- Made of conductive polypropylene
- Rv: 10E3 to 10E5 ohm
- Twist-off lids
- Box internal: 27mm diameter, 13mm high

Part No.	Description
237630	SMD Round Box

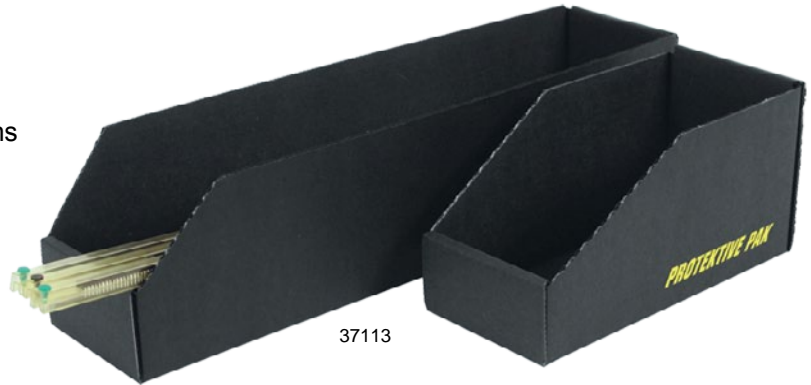


237630



PROTEKTIVE PAK DISSIPATIVE CORRUGATED OPEN BIN BOXES

- Economical method of storing static sensitive electronic devices
- Shipped knocked-down; easy to assemble
- Impregnated corrugated material; greater durability than coated or printed material
- Static dissipative surface of 10E6 - 10E8 ohms
- Buried shielding layer minimizes sloughing and rub-off contamination
- Made from 100% recycled material, and is 100% recyclable
- Lead-free RoHS compliant
- Made in America



37113

Part No. Description
37113 Open Bin Box, 629mm x 210mm x 114mm

Download Technical Drawing [37100.E](#)

MENDA WORKSTATION ORGANIZERS

- Ideal for improving the appearance of the workstation and standardizing the placement of tools at any workstation
- A perfect workstation solution for companies in compliance with 5S
- Can be used for various items which are used on the workstation, such as MENDA dispensing bottles, lotion, flux bottles, solder spools, cutters, tweezers, wash bottles and various other workbench accessories
- Made from an Extruded Conductive polypropylene Plastek™ material, making it ideal to properly set up and standardize any ESD workstation
- Conductive 10E2 - 10E4 ohm material provides reliable path-to-ground
- Superior strength and durability; made from extruded, high impact polypropylene materials
- Chemical and moisture resistant
- Made in America



35874



35873

Part No. Size
35874 Workstation Organizer, Box Only, 6 Cells
35873 Assembly Workstation Organizer Only

Download Technical Drawing [35874](#)

MENDA BLUE DISSIPATIVE ESD PROTECTIVE BOTTLES

- Dissipative bottles are made to protect your valuable static sensitive printed circuitry
- Low Tribo-Charging - will reduce a charge of + or - 5000 volts in less than 2 seconds

Part No. Description
35293 Flux Dispenser, 60ml, 16ga Needle
35292 Flux Dispenser, 60ml, 20ga Needle
35291 Flux Dispenser, 60ml, 26ga Needle
35280 One Touch, 120ml
35281 One Touch, 240ml
35337 One Touch, 180ml



35280



35291

Download Technical Drawing [35291](#) and [35337](#)



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LOW-CHARGING SOLVENT DISPENSERS

- Designed for use at grounded ESD worksurface and handled by grounded operators
- HDPE durAstatic® Bottles by Vermason contain a permanent additive to protect ESD sensitive items
- Rs: < 10E11 ohms
- No migratory additives - reduces the chance for contamination from the bottle
- Highly visible with ESD markings, allowing people to immediately know the bottle is static protective
- "Flask" style shape provides stability
- Made in America and Britain



Part No.	Size
239885	120ml
239890	175ml
239895	235ml
239896	120ml, Stem only
239897	175ml, Stem only
239898	235ml, Stem only

[Download Technical Drawing 239885](#)

LOW-CHARGING WASH BOTTLES

- Designed for use at grounded ESD worksurface and handled by grounded operators
- HDPE durAstatic® Bottles by Vermason contain a permanent additive to protect ESD sensitive items
- Highly visible with ESD markings, allowing people to immediately know the bottle is static protective
- Rs: < 10E11 ohms
- Simply squeeze bottle to dispense contents
- Provides controlled delivery of solvents, cleaners, water, and oils
- Angled non-drip spout delivers single drop or fine stream
- No Migratory Additives Reduces the chance for contamination from the bottle
- Made in America and Britain



Part No.	Size
239900	250ml, Pack of 5
239915	500ml, Pack of 5

[Download Technical Drawing 239900](#)

CONDUCTIVE PLASTIC BRUSHES

- Use hard brush to scrub PCBs, particularly in SMD assembly
- Soft brush is for cleaning optics, disc drives, etc
- Strong handle made of conductive polypropylene
- Rg: 10E4 to 5 x 10E6 ohms

Part No.	Description
238140	Hard, Round, 3mm Diameter
238100	Hard, Round, 6mm Diameter
238105	Soft, Round, 6mm Diameter
238110	Hard, Flat, 12mm Wide
238115	Hard, Flat, 25mm Wide
238120	Hard, Flat, 38mm Wide
238125	Hard, Flat, 50mm Wide
238150	Soft, Flat, 100mm Wide
238155	Soft, Flat, 150mm Wide, 260mm Long Overall
238145	Hard, Block, 35mm x 75mm
238130	Hard, Block, 12mm x 30mm
238135	Hard, Block, 12mm x 60mm



[Download Technical Drawing 238100](#)

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MENDA NATURAL HDPE BOTTLES

- Pump easily brings liquid to dish-top
- High density polyethylene suitable for many solvents
- Wide opening that is easy to fill
- Custom imprinting available - bottles can be printed from artwork
- Dispenses approximately 2cc of liquid with each pump
- Ideal for use with hand sanitizer
- Genuine Made in America Menda pump - accept no substitutes

Part No.	Description
35304	One Touch, 60ml
35305	One Touch, 120ml
35309	One Touch, 175ml
35312	One Touch, 235ml
35701	Take-Along, 60ml
35702	Take-Along, 120ml
35703	Take-Along, 175ml



35702

NEW!



35304

MENDA PROBES

- Ideal for opening plastic cases such as MP3 players, cell phones, laptops and more
- Also a great tool for popping out batteries
- Nylon finish (35619, 35621, and 35622) will not mar delicate surfaces
- Stainless steel won't corrode (35630 and 35617) - no problem in working with magnetized parts
- Can be used in ESD protected areas
- Temperature resistant
- Made in America

Part No.	Description
35619	Nylon Probe, Fork Blade 178mm
35621	Nylon Probe, Spudger 140mm
35622	Nylon Probe, Point Blade 150mm
35630	Stainless Steel Probes, Kit of 4 with pouch
35617	Stainless Steel Probes, Angle 140mm



35622

NEW!

Download [Technical Drawing 35622](#)

MENDA ESD SAFE CUP

- Replacement for static generating foam and plastic cups or bottles on the workstation
- ESD Protective
 - Low charging
 - Electrostatic charges removed to ground when picked up by a grounded operator
- Reusable
- Thermal Insulated Drinking Cup is perfect for hot or cold drinks
- Double wall stainless steel
- Stainless steel push-on lid with slide opening
- Custom imprinting available
 - 100 pieces minimum order, £120 set-up fee applies
 - Customer to provide logo and Pantone ink colour (one colour only)
- Made in America

Part No.	Description
35890	Stainless Steel Drinking Cup, 470ml

Download [Technical Drawing 35890](#)



35622

NEW!

Handling and Storage



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 E-mail: Service@Vermason.co.uk • Web: Vermason.co.uk



ANTISTATIC CLIPBOARDS

- Calendered antistatic blue PVC covering, 0.35mm thick
- Rs 10E11 ohms, T₁₀₀₀: < 2 sec
- ESD caution text in black
- Sprung metal clip holds A4 paper
- Made in Britain

Part No.	Description
238816	Clipboard A4 Portrait
238821	Clipboard A4 with Cover

Download Technical Drawing [238816](#)

NEW!



238816

238821

Improved Material!

ANTISTATIC RING BINDERS

- Calendered antistatic blue PVC covering
- Rs 10E11 ohms, T₁₀₀₀: < 4 sec
- Colour: light blue
- A5, A4 portrait formats, 2 or 4 ring;
- A3 only landscape format
- Made in Britain

Part No.	Format	Rings	Size	Spine Width
238726	A4	Four	15mm	35mm
238701	A4	Two	25mm	40mm
238706	A4	Four	25mm	40mm
238721	A4	Four	38mm	55mm
238716	A4	Two	50mm	70mm
238711	A4	Four	50mm	70mm

Download Technical Drawing [238700](#)

NEW!



238741

238711

238741

Improved Material!

ANTISTATIC DOCUMENT WALLETS

- Permanently static dissipative yet dry to the touch
- On-stick, suitable for photo-copies and facsimilies
- Open at top
- Rs: < 10E10 ohms, T₁₀₀₀: <2 sec

Part No.	Format	Spine	Unit
238755	A4	Portrait 11-hole	100

Download Technical Drawing [238755](#)



238755

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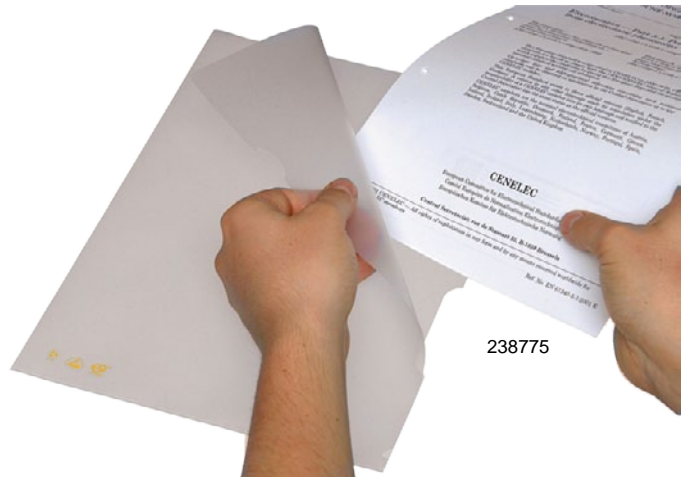


ANTISTATIC DOCUMENT WALLET

- Permanently static dissipative, yet dry to the touch
- Non-stick, suitable for photo-copies and facsimilies
- Open at top
- Rs: 10E9 to 10E10 ohms
- A4 portrait format

Part No.	Format	Unit
238775	A4 Landscape	100

[Download Technical Drawing 238775](#)



238775

RIGID ANTISTATIC DOCUMENT WALLET

- Rs: < 10E10 ohms, T₁₀₀₀: < 2 sec
- With or without 4-hole spine
- Wallets without spine have thumbhole at top
- Not washable
- Made in Britain

Part No.	Format	Spine	Holes	Unit
238790	A5	Portrait	None	10
238795	A4	Portrait	None	10
238780	A4	Portrait	Four-hole	10
238785	A3	Landscape	Four-hole	10

[Download Technical Drawing 238790](#)



238780

SELF-ADHESIVE DOCUMENT POUCH

- Made of rigid 0.2mm PVC - ideal for holding documents on bins, boxes, shelves, trolleys, etc.
- Adhesive is stable and will not leave residue on most surfaces
- Front layer is clear, static dissipative PVC - Rs: <10E10 ohms, T₁₀₀₀: < 2 sec
- Mounted on easy-release white paper
- Made in Britain

Part No.	Format	External Size	Unit
238800	A7 Landscape	82mm x 117mm	4
238805	A6 Portrait	158mm x 115mm	10
238810	A4 Portrait	300mm x 220mm	each

[Download Technical Drawing 238800](#)



238805

238800



For a selection of our PCB containers see [Page 68](#)



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 E-mail: Service@Vermason.co.uk • Web: Vermason.co.uk



LETTER TRAY

- Stackable
- Size: 340mm x 245mm x 50mm internal
- Holds A4 paper
- Black is made of conductive polypropylene; Rv: 10E3 to 10E5 ohms

Part No. Colour
238760 Black

[Download Technical Drawing 238760](#)



238760

Check out the set-up of a typical EPA

CONDUCTIVE WASTE BIN, ROUND

- Made of black conductive polypropylene
- Marked with ESD symbol
- Washable
- R_G: <10E6 ohms
- Diameter 265mm max, height 320mm, volume 14l

Part No. Description
239260 Conductive Round Bin

[Download Technical Drawing 239260](#)



239260

CONDUCTIVE WASTE BIN

- Made of conductive fibreboard 2mm thick
- R_G: < 10E6 ohms
- Reinforced with metal hoop at top
- Bottom corners are reinforced and fitted with round-headed metal studs as feet
- Made in Britain

Part No.	Overall Dimensions
239205	40cm x 40cm x 78cm
239200	Drop-on Lid for 239205
239215	30cm x 30cm x 60cm
239210	25cm x 25 x 40cm

[Download Technical Drawing 239200](#)

239215



239210





LOW-CHARGING STATIC DISSIPATIVE WASTE BIN

- Made of polypropylene by WEZ using durAstatic® technology
- Permanently static dissipative - Rs: 10E9 to 10E10 ohms; T₁₀₀₀: < 2 sec
- Intrinsically clean, suitable for use in clean rooms
- No surface coating to rub off, washable

Part No.	Description
239930	durAstatic Waste Bin 33cm x 33cm x 53cm

239930



ANTISTATIC WASTE BAG

- Made of antistatic polyethylene
- Charges to <100V, T₁₀₀₀: < 4 sec
- Comparable in strength to conventional refuse sacks
- Printed in black with ESD protective symbol and text
- Made in Britain

Part No.	Description
239230	30l, to fit 239210 bin, Blue
239220	50l, to fit 239930 bin, Blue
239225	50l, to fit 239930 bin, Red
239235	110l, to fit 239205 bin, Blue
239240	110l, to fit 239205 bin, Green
239245	110l, to fit 239205 bin, Red

239245



239235

Download Technical Drawing [239220](#)

ESD - THE INVISIBLE LIGHTNING BOLT, CD

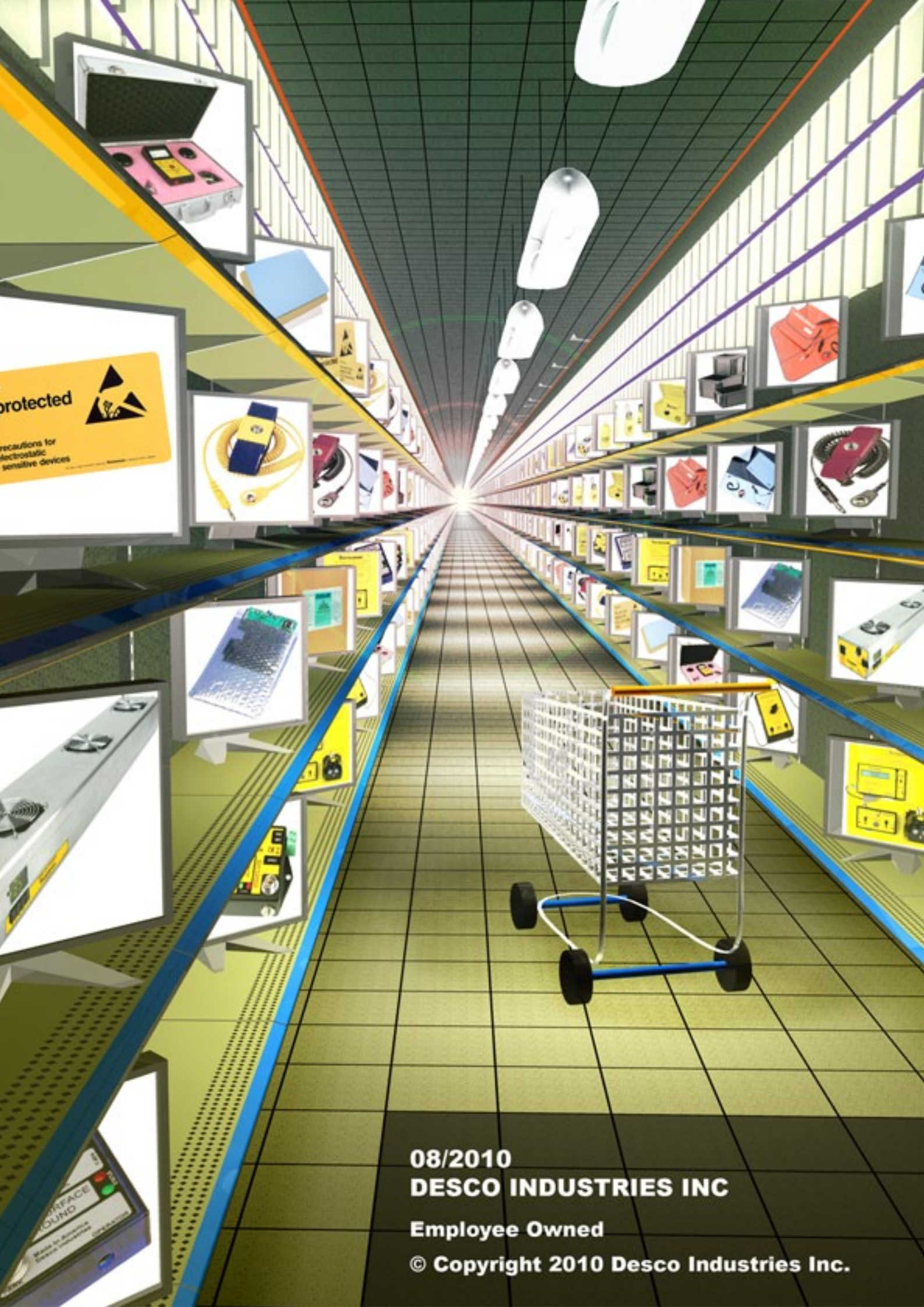
- Written by ESD experts at Infineon
- Plays for 13 minutes
- Explains the phenomenon of ESD, then demonstrates the precautions needed in an electronics manufacturing plant
- Excellent for raising awareness of ESD

Part No.	Description
248200	Infineon CD English

248200



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protected



Precautions for
Electrostatic
Sensitive Devices

INTERFACE
GROUND

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