SSE

STATIC SAFE
ENVIRONMENTS

products and systems to control ESD

STATIC SAFE ENVIRONMENTS

ESD Protection Products and Services

Use the Picture Index on pages 2-8 for a quick overview of our range of products for ESD protection

LATEST PRICE LIST AVAILABLE ON OUR WEBSITE

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STATIC SAFE ENVIRONMENTS

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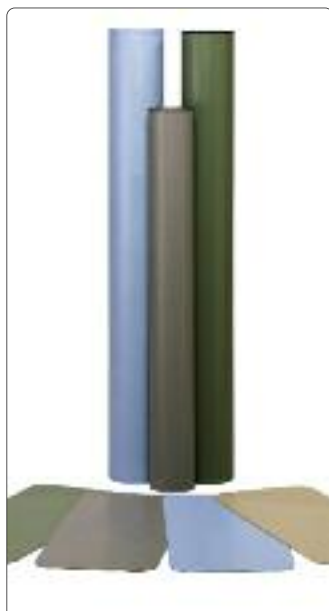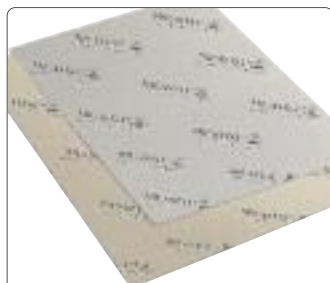
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STATIC SAFE ENVIRONMENTS

ESD CONTROL FLOORING SYSTEMS

FLOORING FOR ESD PROTECTION

Flooring Systems for ESD Protected Areas (EPAs)

Selecting a Flooring System

Electronic components become more sensitive to ESD as device density increases and circuit geometry shrinks. This trend will continue as new micro-chip technologies are introduced. Providing effective protection into the future is an important consideration in the design of an **ESD Protected Area**.

ESD control flooring systems can have a useful life in excess of 10 years. Selecting a material with stable and predictable long-term characteristics is essential. Protection for the next generation of electronic devices is ensured by choosing a material that controls body voltage to low levels.

BS EN 61340-5-1:2007 – Protection of Electronic Devices from Electrostatic Phenomena

This is the current ESD protection standard and sets out the technical performance requirements for flooring systems.

Key Performance Requirements for Floors used for Grounding Personnel

To comply with the standard, one of the following performance qualifications apply:-

- Resistance to ground (Rg) of the person/footwear/floor combination < $3.5 \times 10^7 \Omega$
  or…
- The resistance to ground of the person/footwear/flooring system < $1 \times 10^9 \Omega$ and body voltage is maintained at <100V

A floor that meets the above criteria allows the movement of ESD-sensitive items within the area without additional protection.

Key Performance Requirements for Floors not used for Grounding Personnel

- Resistance to the groundable point (Rgp) < $1.0 \times 10^9 \Omega$

ESD-sensitive items will require additional protection when moved within the area.

Safety Considerations for Flooring Installations

Personnel safety is the first consideration when selecting items for use in an EPA. BS EN 61340-5-1:2007 contains 2 clauses relating to safety.

- Clause 4.0 states 'electrical hazard reduction practices should be exercised.'.
- Clause 5.3 states 'Some of the elements listed in Tables 1-4 do not have a defined lower resistance limit. However, a minimum resistance value may be required for safety reasons'.

Personnel may be exposed to a situation where they are grounded, simultaneously, through several elements in the EPA. These could include footwear, wrist strap, seating and the floor. In the event of an electric shock at mains voltage, the combination of the parallel paths through all the elements may expose the person to significant risk of harm. Selecting a floor material that provides Rg > $1 \times 10^6 \Omega$ is, by far, the lowest risk strategy. With a floor Rg above this level, even when low resistance footwear and/or seating are in use, electric shock current will be limited to a safe level.

SSE recommend that flooring within an EPA is chosen to maintain safe working conditions at all times, without having to rely on specially selected footwear and/or seating; the characteristics of these items can be highly variable. By adopting the safety criteria used for wrist straps, equivalent to the 1MΩ resistor in the cord, the floor system will be safe at all times.

Maximum Body Voltage at 35MΩ

Based on fig. 7 of IEC TR 61340-5-2:2008
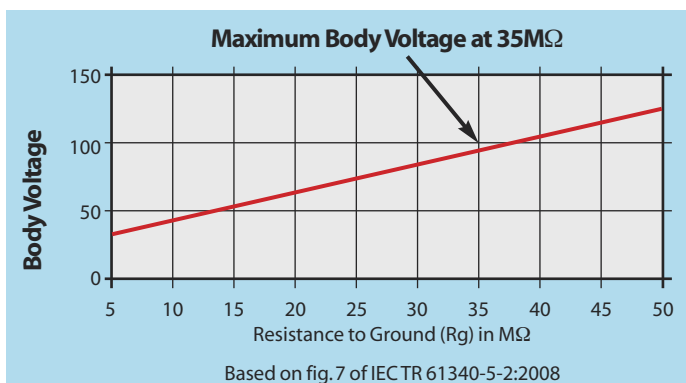
This graph illustrates the relationship between body voltage and resistance to ground (Rg). At 35MΩ, body voltage will be maintained at <100V, complying with the requirements of BS EN 61340-5-1:2007.

STATIC SAFE ENVIRONMENTS

FLOORING FOR ESD PROTECTION

NeoStat RX Static Dissipative Flooring

A range of specialised floor coverings for use in the electronic industry or any area that required permanent control of undesirable electrostatic charges.

Neostat RX is the ideal flooring for direct grounding of personnel and equipment, controlling body voltage to <10V.

We recommend that:-

- All materials are fitted by qualified installers to ensure that the correct performance is achieved.
- A survey is carried out to evaluate site conditions and advise on any necessary preparatory work.

SSE PROVIDE A FULL INSTALLATION, TESTING AND CERTIFICATION SERVICE

NeoStat RX is a homogenous flexible synthetic rubber with a range of patterns normally laid on conductive adhesive with copper foil earthing strips. This material has excellent chemical, solvent and heat resistant properties. Suitable for primary grounding of personnel and equipment.

Applications:

- electronic production areas
- service and repair areas
- electronic storage areas
- R & D laboratories
- access flooring
- telephone exchanges
- chemical handling areas

The use of rubber based floor coverings has the following advantages:

- superior chemical and heat resistance compared with vinyls
- high wear resistance
- low maintenance costs
- environmentally friendly
- no acidic fumes or dioxins when exposed to flame

Performance Details

Features	Fleck, Deco, Chip and Speck Patterns	Dot Pattern
Personal Safety (protection from electric shock) [1]	$Rg >7.5 \times 10^5 \Omega$	$Rg >5 \times 10^5 \Omega$
Protection for 100V device sensitivity (person to ground maximum resistance) [2]	$Rg <3.5 \times 10^7 \Omega$	$Rg <1 \times 10^6 \Omega$
Floor Surface to Ground resistance (typical average)	$Rg \approx 2.5 \times 10^7 \Omega$ (Tested at 100V)	$Rg \approx 3 \times 10^5 \Omega$
Resistance to hot objects (solder, dropped soldering irons)	Excellent	
Long Term Durability	Excellent	
Chemical Resistance	Excellent	
Maintenance	Non-porous surface facilitates cleaning. Scuff marks can be removed without the use of abrasive pads.	
Material Disposal	End of life disposal or recycling is environmentally safe.	
Performance in Fire	Does not release corrosive fumes, dioxins and heavy metals.	
Guarantee of physical performance	10 Years	
Guarantee of ESD performance	10 Years	

Note [1]
This requirement is equivalent to the $1 M\Omega$ safety resistor in wrist strap leads. It is therefore important that this is an inherent property of the floor material, to avoid risks with low resistance footwear or heel straps (or even damp shoes). The value is appropriate for mains voltages of 240V.

Note [2]
BS EN 61340-5 Part 1 and 2 are based on protection of devices down to an ESD sensitivity of 100V. Although less sensitive devices may be in use, the trend in electronics is to low power and higher component density at chip level; this inevitably increases the susceptibility of device to ESD damage. The $3.5 \times 10^7 \Omega$ value is based on research which has shown that above this level, body voltage can exceed the 100V threshold (see BS EN 61340-5 Part 2 – User Guide section 5.2.8 and Figure 101). See graph on page 10.

NeoStat RX rubber based flooring material produces very low levels of body voltage (< 10V) when used in conjunction with an approved foot grounding method.

NeoStat RX rubber is guaranteed for 10 years both for electrostatic and mechanical performance when installed and maintained in accordance with SSE specification.

SPECIFICATION:

Roll Width	1200mm
Roll Length	15m and 8m(3.5mm thick)
Tile Sizes	610 x 610mm (15 per carton)
Thickness	2mm (3.5mm thick also available in 3 colours)
Resistance to Ground (Rg)	$10^6 – 10^8 \Omega$

See pages 12 and 13 for the full range of NeoStat RX colours

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NeoStat RX COLOURS
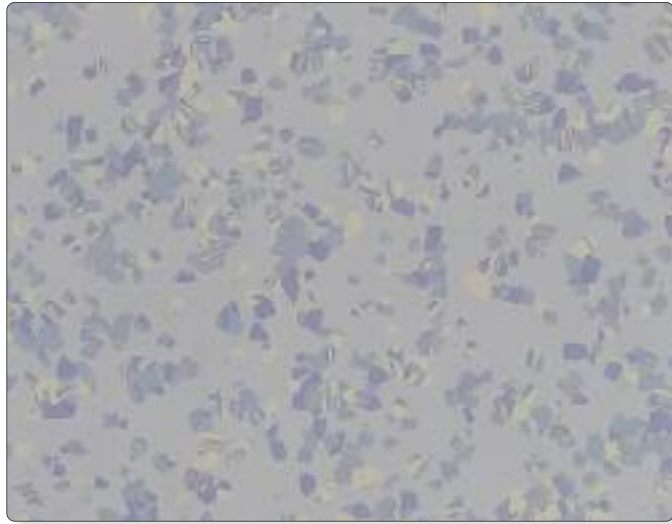
FLECK COLOURS

Light Blue Fleck
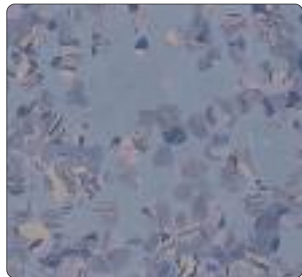
Blue Fleck
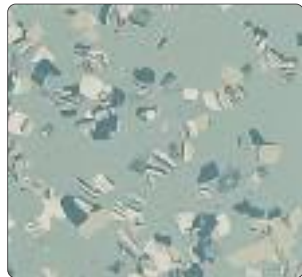
Zircon Fleck
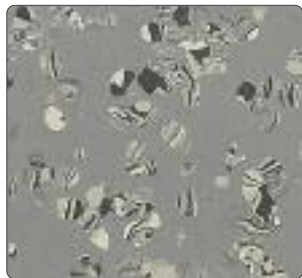
Grey Fleck
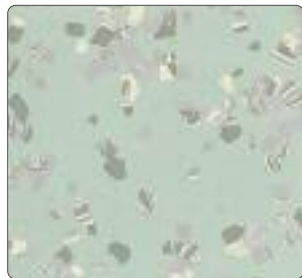
Mint Fleck

Beige Fleck

Sand Fleck
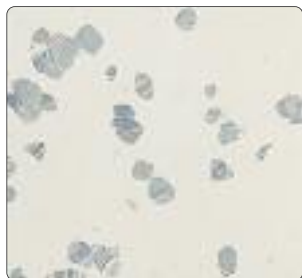
Ivory Blue Fleck

Ivory Vellum Fleck

Ivory Fleck colours are in 610 x 610mm tiles only.
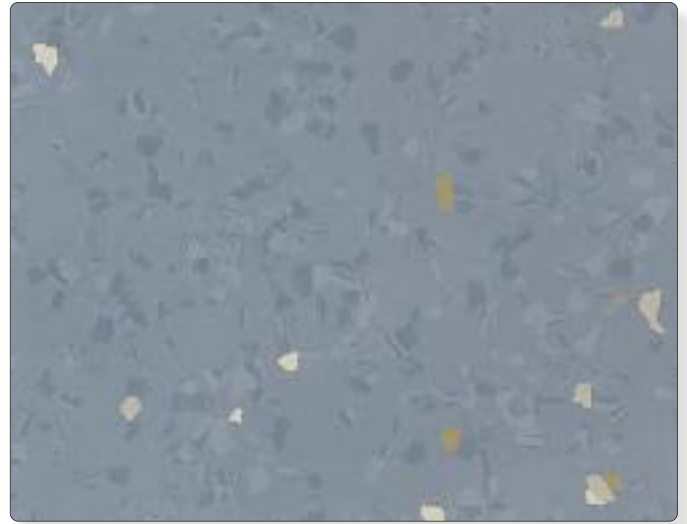
DECO COLOURS

Wedgwood Deco

Blue Deco

Pebble Deco
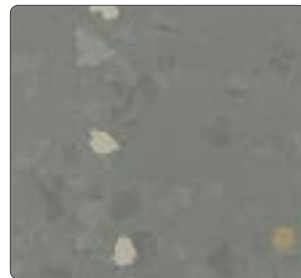
Corvette Deco

Slate Deco

Sage Deco

Aqua Deco

Magnolia Deco

Biscuit Deco

NeoStat RX COLOURS

STATIC SAFE ENVIRONMENTS

NeoStat RX COLOURS
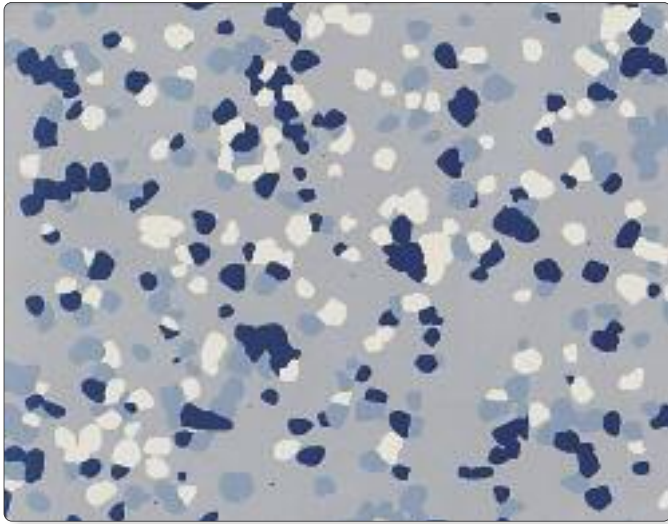
CHIP COLOURS

Grey Blue Chip
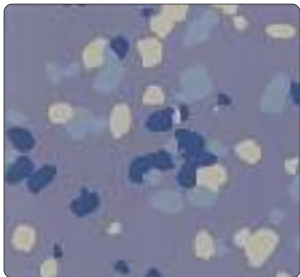
Blue Chip

Grey Chip
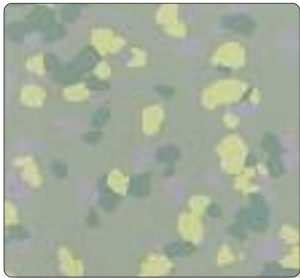
Green Chip
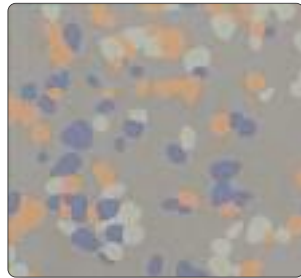
Bisque Chip
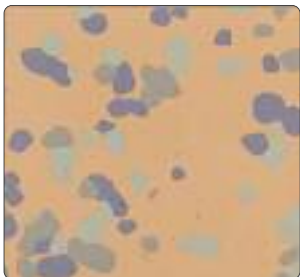
Orange Chip

DOT COLOURS (Explosion Risk Areas)

Blue Dot

Pebble Dot

SPECK COLOURS

Astral Speck
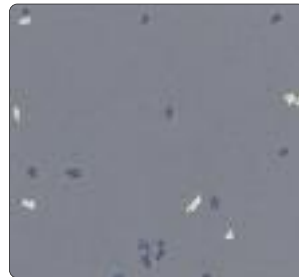
Platinum Speck

Mauve Speck
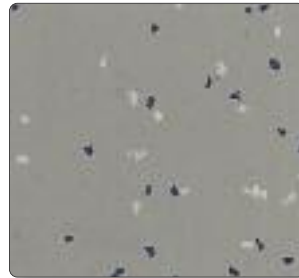
Aqua Speck

Grey Speck

Pebble Speck

Lava Dot

Grey Dot

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NeoStat LX LINOLEUM - INTERLOCKING PANELS - LOOPE PILE CARPET TILES

Blue

Sand

Sage

Neostat LX Linoleum Flooring

A cost effective alternative to vinyl flooring, Neostat LX Linoleum provides excellent ESD protection, with very low charge generation, good heat and resistance and ease of cleaning. Manufactured from plant-derived materials and limestone, it is fully bio-degradable, with low-cost end-of-life disposal. 3 STANDARD COLOURS

Applications:
- Manufacturing areas
- Service and Repair Areas
- R&D laboratories
- Telephone and IT facilities
- Store rooms

TECHNICAL SPECIFICATION

Roll width:	2000mm
Thickness:	2.5mm
Resistance to ground (Rg):	$10^6 – 10^8 \Omega$
Body voltage:	<20V (with suitable ESD footwear).

Grey
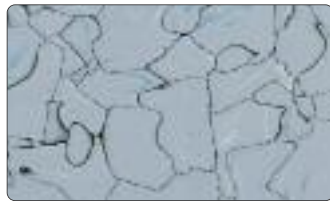
Blue

Green

Stone

Neostat V-LOK Interlocking Flooring Panels

A system designed to overlay existing floors with minimal preparation. Comprising 610 x 610mm panels and 150mm ramped edge components and corners. Ideal for small to medium sized areas and for short-term temporary installations.

The overall appearance is identical to a normal tiled floor. Available as floor kits for customer installation, or fully installed. Tested and certified by SSE.

Applications:
- Manufacturing areas
- Service and Repair Areas
- R&D laboratories
- Telephone and IT facilities
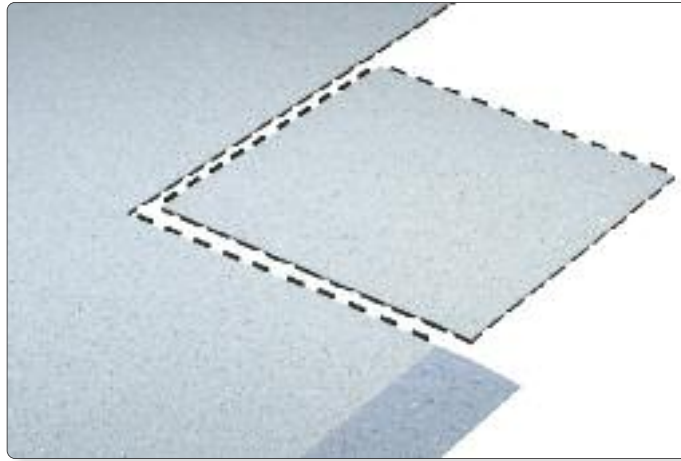
TECHNICAL SPECIFICATION

Panel size:	610 x 610mm
Thickness:	9.7mm
Resistance to ground (Rg):	$10^6 – 10^8 \Omega$
Body voltage:	<100V (with suitable ESD footwear).

Royal Blue

Rust

Olive Green

Slate Grey

Neostat LPC Loop Pile Carpet Tiles

Attractive loop pile carpet tiles incorporating conductive fibres, with a special backing to provide effective grounding through a brass foil grid. Normally laid on a peelable release adhesive.

Format: TILES

Applications:
- service and repair areas
- R&D laboratories
- access flooring
- telephone exchanges
- computer rooms
- high-tech offices

TECHNICAL SPECIFICATION

Tile Size: 500 x 500mm
Thickness: 6mm
Leakage Resistance: 10^6-$10^8 \Omega$

PLEASE CALL FOR A QUOTATION FOR THE PRODUCTS ON THIS PAGE

STATIC SAFE ENVIRONMENTS

ADAPTABLE PRODUCTION SYSTEM

- The Adaptable Production System (APS) provides a totally flexible manufacturing facility for electronic and light engineering assembly. The structure is based around a fully integrated range of aluminium extrusions, assembled with simple tools. All components are re-usable in new configurations.

- The system is designed to provide a solution for individual requirements, which is both cost effective and based on sound ergonomic principals. The illustrations on this page show typical configurations - many more are possible using standard components.

Typical Configurations

Workstation with Conveyor Track

Test Cell Configuration

Vertical posts with a multiple channel profile provide adjustment for setting the height of major components and accessories, using only a hexagon key.

Panels can be fitted in a range of materials to provide segregation or protection.

ADAPTABLE PRODUCTION SYSTEM

STATIC SAFE ENVIRONMENTS

ADAPTABLE PRODUCTION SYSTEM

Ergonomics

To maximise productivity and eliminate discomfort and potential repetitive strain injury, it is essential to design workstations using sound ergonomic principles. This includes the optimum positioning of work-related equipment and components, choice of seating and lighting levels.

In situations where more than one operative needs to use a location, consideration must be given to easily adjustable settings to accommodate individual needs (eg. gas lift chairs, adjustable foot rests etc).
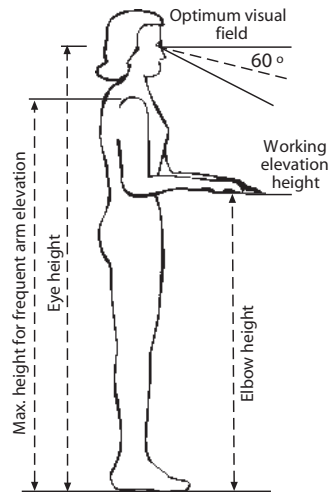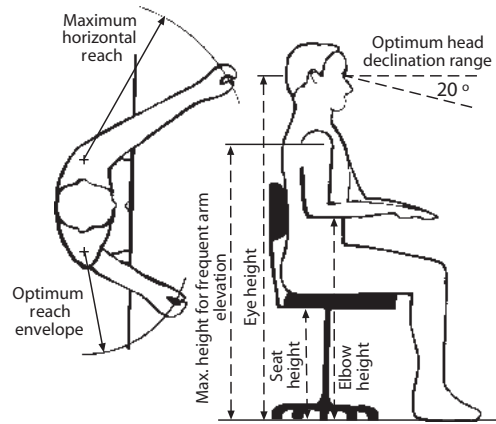
Workstation with Solid Worktop

	Person's Height (m)				
Working Dimensions (mm)	**1.57**	**1.63**	**1.68**	**1.75**	**1.83**
Maximum horizontal reach	688	683	706	752	790
Optimum reach envelope	315	328	340	361	378
SITTING					
Frequent arm elevation height	899	932	973	1039	1090
Eye height	1080	1118	1158	1232	1288
Elbow height	566	584	620	686	719
Seat height-feet on floor	368	386	404	434	460
STANDING					
Frequent arm elevation height	1285	1323	1367	1443	1509
Eye height	1463	1509	1554	1636	1702
Elbow height	960	986	1019	1080	1123

Swivel posts incorporate short independent sections fitted over a centre spindle to allow accessories to be positioned anywhere around the post and then clamped securely in place.

Horizontal members can be supplied to any length required and have a continuous channel profile on both edges. These channels provide the facility to fit cross members and other components using sliding nuts.

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ADAPTABLE PRODUCTION SYSTEM

- A range of standard modules manufactured from silver-anodised aluminium extrusions, assembled using hand tools and offering total flexibility of layout and design.
- Tops are covered with tough Neostat C2 static dissipative rubber in blue or grey (see page 12).
- All modules are supplied with wrist strap and worktop bonding points.
- The standard height is 840mm – alternative heights are available.
- The system is based around initial modules with two leg frames and extension modules with one leg frame, making complex layouts economical, with the minimum number of legs.

Basic Worktop Module

Standard rectangular worktop.

Dims. (mm)	Order Code
Single sided initial unit	
1000 x 600	APS-BIS-1006
1200 x 600	APS-BIS-1206
1500 x 600	APS-BIS-1506
1800 x 600	APS-BIS-1806
1000 x 750	APS-BIS-1007
1200 x 750	APS-BIS-1207
1500 x 750	APS-BIS-1507
1800 x 750	APS-BIS-1807
Single sided extension unit	
1000 x 600	APS-BXS-1006
1200 x 600	APS-BXS-1206
1500 x 600	APS-BXS-1506
1800 x 600	APS-BXS-1806
1000 x 750	APS-BXS-1007
1200 x 750	APS-BXS-1207
1500 x 750	APS-BXS-1507
1800 x 750	APS-BXS-1807

Dims. (mm)	Order Code
Double sided initial unit	
1000 x 1200	APS-BID-1012
1200 x 1200	APS-BID-1212
1500 x 1200	APS-BID-1512
1800 x 1200	APS-BID-1812
1000 x 1500	APS-BID-1015
1200 x 1500	APS-BID-1215
1500 x 1500	APS-BID-1515
1800 x 1500	APS-BID-1815
Double sided extension unit	
1000 x 1200	APS-BXD-1012
1200 x 1200	APS-BXD-1212
1500 x 1200	APS-BXD-1512
1800 x 1200	APS-BXD-1812
1000 x 1500	APS-BXD-1015
1200 x 1500	APS-BXD-1215
1500 x 1500	APS-BXD-1515
1800 x 1500	APS-BXD-1815

Recessed Worktop Module

Front of worktop recessed to improve ergonomics on repetitive assembly operations.

Dims. (mm)	Order Code
Single sided initial unit	
1000 x 600	APS-RIS-1006
1200 x 600	APS-RIS-1206
1500 x 600	APS-RIS-1506
1800 x 600	APS-RIS-1806
1000 x 750	APS-RIS-1007
1200 x 750	APS-RIS-1207
1500 x 750	APS-RIS-1507
1800 x 750	APS-RIS-1807
Single sided extension unit	
1000 x 600	APS-RXS-1006
1200 x 600	APS-RXS-1206
1500 x 600	APS-RXS-1506
1800 x 600	APS-RXS-1806
1000 x 750	APS-RXS-1007
1200 x 750	APS-RXS-1207
1500 x 750	APS-RXS-1507
1800 x 750	APS-RXS-1807

Dims. (mm)	Order Code
Double sided initial unit	
1000 x 1200	APS-RID-1012
1200 x 1200	APS-RID-1212
1500 x 1200	APS-RID-1512
1800 x 1200	APS-RID-1812
1000 x 1500	APS-RID-1015
1200 x 1500	APS-RID-1215
1500 x 1500	APS-RID-1515
1800 x 1500	APS-RID-1815
Double sided extension unit	
1000 x 1200	APS-RXD-1012
1200 x 1200	APS-RXD-1212
1500 x 1200	APS-RXD-1512
1800 x 1200	APS-RXD-1812
1000 x 1500	APS-RXD-1015
1200 x 1500	APS-RXD-1215
1500 x 1500	APS-RXD-1515
1800 x 1500	APS-RXD-1815

Module illustrated is 1500 x 1200 with right hand leg APS-R77-1512

Corner Module

Allows the effective use of corners and a large individual work area. Specify side leg as left or right.

Dims. (mm)		Order Code	
Main leg (mm)	Side leg (mm)	Side leg on left	Side leg on right
1200 x 600	1200 x 600	APS-L66-1212	APS-R66-1212
1500 x 600	1200 x 600	APS-L66-1512	APS-R66-1512
1800 x 600	1200 x 600	APS-L66-1812	APS-R66-1812
1200 x 750	1200 x 600	APS-L76-1212	APS-R76-1212
1500 x 750	1200 x 600	APS-L76-1512	APS-R76-1512
1800 x 750	1200 x 600	APS-L76-1812	APS-R76-1812
1500 x 600	1200 x 750	APS-L67-1512	APS-R67-1512
1800 x 600	1200 x 750	APS-L67-1812	APS-R67-1812
1200 x 750	1200 x 750	APS-L77-1212	APS-R77-1212
1500 x 750	1200 x 750	APS-L77-1512	APS-R77-1512
1800 x 750	1200 x 750	APS-L77-1812	APS-R77-1812

STATIC SAFE ENVIRONMENTS

ADAPTABLE PRODUCTION SYSTEM

Conveyor Track Module
Used for work transfer and buffer storage between operations.

Dims. (mm)	Order Code	Dims. (mm)	Order Code
Single sided initial unit		**Double sided initial unit**	
1000 x 600	APS-CIS-1006	1000 x 1200	APS-CID-1012
1200 x 600	APS-CIS-1206	1200 x 1200	APS-CID-1212
1500 x 600	APS-CIS-1506	1500 x 1200	APS-CID-1512
1800 x 600	APS-CIS-1806	1800 x 1200	APS-CID-1812
1000 x 750	APS-CIS-1007	1000 x 1500	APS-CID-1015
1200 x 750	APS-CIS-1207	1200 x 1500	APS-CID-1215
1500 x 750	APS-CIS-1507	1500 x 1500	APS-CID-1515
1800 x 750	APS-CIS-1807	1800 x 1500	APS-CID-1815
Single sided extension unit		**Double sided extension unit**	
1000 x 600	APS-CXS-1006	1000 x 1200	APS-CXD-1012
1200 x 600	APS-CXS-1206	1200 x 1200	APS-CXD-1212
1500 x 600	APS-CXS-1506	1500 x 1200	APS-CXD-1512
1800 x 600	APS-CXS-1806	1800 x 1200	APS-CXD-1812
1000 x 750	APS-CXS-1007	1000 x 1500	APS-CXD-1015
1200 x 750	APS-CXS-1207	1200 x 1500	APS-CXD-1215
1500 x 750	APS-CXS-1507	1500 x 1500	APS-CXD-1515
1800 x 750	APS-CXS-1807	1800 x 1500	APS-CXD-1815

Design a layout, tailored to the process using Standard Modules and Accessories

Worktops
Neostat C2 static dissipative work surface in grey or blue; manufactured from either solid core laminate or with an MDF core and laminate balancer. Static dissipative laminate is available on request.

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ADAPTABLE PRODUCTION SYSTEM

Rear Accessory Frame

Used to support overhead accesories. Available in two heights; use 1200mm high for Light/Tool Rail.

Dims. (mm)		Order Code	
Module length	Height above worktop	Initial Module (2 posts)	Extension Module (1 post)
1000	800	APS-RAF-1008	APS-RAX-1008
1200	800	APS-RAF-1208	APS-RAX-1208
1500	800	APS-RAF-1508	APS-RAX-1508
1800	800	APS-RAF-1808	APS-RAX-1808
1000	1200	APS-RAF-1012	APS-RAX-1012
1200	1200	APS-RAF-1212	APS-RAX-1212
1500	1200	APS-RAF-1512	APS-RAX-1512
1800	1200	APS-RAF-1812	APS-RAX-1812

Light/Tool Rail

Used for high-level accessories such as light units, tool hangers and ionisers.

Dims. (mm)	Order Code	
Module length	Initial Module (2 brackets)	Extension Module (1 bracket)
1000	APS-LTR-1000	APS-LTX-1008
1200	APS-LTR-1200	APS-LTX-1208
1500	APS-LTR-1500	APS-LTX-1508
1800	APS-LTR-1800	APS-LTX-1808
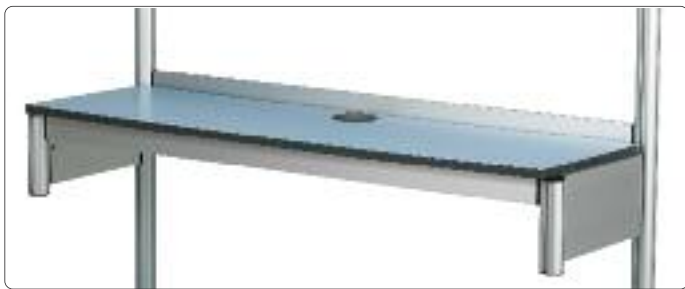
Upper shelf

Cantilever shelves which can be set at any height above the worktop.
For loads above 30kg support struts are available.
All shelves are fitted with a central 80mm diameter cable port; additional ports fitted during manufacture to order.

Length (mm)	Depth (mm)	Order Code
1000	300	APS-S30-1000
1200	300	APS-S30-1200
1500	300	APS-S30-1500
1800	300	APS-S30-1800
1000	350	APS-S35-1000
1200	350	APS-S35-1200
1500	350	APS-S35-1500
1800	350	APS-S35-1800
1000	400	APS-S40-1000
1200	400	APS-S40-1200
1500	400	APS-S40-1500
1800	400	APS-S40-1800

Lower Shelf

For additional storage or the siting of equipment, these shelves can be set at any height. All shelves are fitted with a central 80mm diameter cable port; additional ports fitted during manufacture to order.

Length (mm)	Depth (mm)	Order Code
1000	300	APS-L30-1000
1200	300	APS-L30-1200
1500	300	APS-L30-1500
1800	300	APS-L30-1800
1000	350	APS-L35-1000
1200	350	APS-L35-1200
1500	350	APS-L35-1500
1800	350	APS-L35-1800
1000	400	APS-L40-1000
1200	400	APS-L40-1200
1500	400	APS-L40-1500
1800	400	APS-L40-1800

STATIC SAFE ENVIRONMENTS

ADAPTABLE PRODUCTION SYSTEM

Light Unit

Twin tube fluorescent fitting with Category II reflector to eliminate low-angle glare.

Overhead Ioniser

Refer to page 116 for the range of ionisers.

Length (mm)	Use with module	Order Code
600	1000 and 1200mm	APS-FLU-06
1200	1500	APS-FLU-12
1500	1800	APS-FLU-15

Louvred Panel Units

Provide a grounded location for parts bins. Require rear accessory frames to be fitted (see page 58).

Fixed

Fixed frame for positioning along the rear of standard modules.

Dims. (mm)	Order Code
450 x 450	APS-LPF-0505
600 x 600	APS-LPF-0606

Pivoted

Pivoted mounting, either left or right handed to improve ergonomics in repetitive assembly operations. Fitted with adjustable locking stay.

	Order Code
450 x 450	APS-LPP-0505
600 x 600	APS-LPP-0606

Parts Bin Rail

An alternative to Louvred Panel Units for single rows of bins. Requires Rear Accessory Frame to be fitted (see page 58).

Dims. (mm)	Order Code
Single Rail	
450	APS-PBR-05
600	APS-PBR-06
1000	APS-PBR-10

Document Holder

Available in A4 landscape and portrait versions, mounted on a swivel bracket with angle adjustment.

	Order Code
Landscape A4	APS-DHL-A4
Portrait A4	APS-DHP-A4

Cable Ports

80mm diameter with a push-out lid, fitted in worktops to customer requirements. Colour: black

	Order Code
Cable Ports	CAB-08-BLK

Tool Hanger

Used to suspend small power tools from the Light/Tool Rail (see page 58), available in fixed and sliding versions.

Dims. (mm)	Order Code
Fixed Tool Hanger	APS-THF-F
Sliding Tool Hanger	APS-THF-S

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ADAPTABLE PRODUCTION SYSTEM

ADAPTABLE PRODUCTION SYSTEM

Drawer and Cupboard Units

A range of lockable cabinets to provide drawer and cupboard storage, fitted to the underside of the worktop using brackets and screws provided.

Type	Dims.(mm)	Order code
Single drawer	460dx370wx140h	APS-TUD-4601
Double drawer	460dx370wx245h	APS-TUD-4602
4 drawer	460dx370wx455h	APS-TUD-4604
Drawer/Cupboard	460dx370wx455h	APS-TUD-4601C

LCD Monitor Mounting

This unit provides a fully adjustable mounting for flat screen monitors and incorporates a standard VESA fixing plate. Adjustments include angle, height and distance.
For more details, see page 77.

Order Code
SMM-100

Computer Support Cradle

This unit fits to the side or rear of modules to accommodate computers and other equipment. The design allows for adjustment in dimensions to suit specific needs.

Dims. (mm)	Order Code
250w x 500d	APS-CSC-25

Conductive Skate Wheel Track

The track consists of a lightweight galvanised U-channel fitted with conductive polypropylene skate-wheels, either in plain or flanged versions.

Applications include:

- GRAVITY FEED LIVE STORAGE RACKS
- GRAVITY FEED LIVE STORAGE TROLLEYS
- PRODUCTION LINE BUFFER TRACK
- WORKSTATION FEED/PASS-THROUGH TRACK

Dimensions: 3000mm lengths with wheels on 50mm centres. Wheel diameter 28mm. Channel 38 wide x 27mm.

Description	Order Code
3000 (Plain)	APS-CSW-3050-P
3000 (Flanged)	APS-CSW-3050-F

Live Storage Racks

These racks incorporate the conductive skate-wheel track shown left and are designed for use with the Adaptable Production System illustrated on pages 54-59.
Alternatively, racks can be supplied for use with existing workstations, to customer requirements.

PLEASE ASK FOR A QUOTATION FOR THIS PRODUCT. WE REQUIRE A SKETCH OF THE PROPOSED CONFIGURATION, WITH DETAILS OF THE LOAD DIMENSIONS AND WEIGHT.

STATIC SAFE ENVIRONMENTS

TRUNKING MODULES

Trunking Modules

Each module is fitted with standard twin switched 13A sockets and has a single aperture at one end; supplied with a blanking plate, 13A fused spur, or a 13A RCD trip.

Bench Mounted Trunking

Angled anodized aluminium bench trunking for fitting to the rear of the worktop, to provide mains and data services. Supplied as standard modules, **unwired** (or pre-wired – see below).
Trunking dims. 100x100mm

| | | | Order Code | |
Length	Twin Sockets	Blank Plate	Fused Spur	RCD
250	1	BT1-02-B	BT1-02-F	BT1-02-R
600	2	BT2-06-B	BT2-06-F	BT2-06-R
1000	3	BT3-10-B	BT3-10-F	BT3-10-R
1200	3	BT3-12-B	BT3-12-F	BT3-12-R
1500	4	BT3-15-B	BT3-15-F	BT3-15-R
1800	4	BT3-18-B	BT3-18-F	BT3-18-R

Insulating strip (required when fitted to ESD worktops) to avoid random earthing of ESD protective elements.

Length	Order Code
250	INS-02
600	INS-06
1000	INS-10
1200	INS-12
1500	INS-15
1800	INS-18

Rail Mounted Trunking

Rectangular plastic trunking for fitting to an upper rail or to the wall, to provide mains and data services. Supplied as standard modules, **unwired** (or pre-wired – see below).
Trunking dims. 100x60mm

| | | | Order Code | |
Length	Twin Sockets	Blank Plate	Fused Spur	RCD
250	1	RT1-02-B	RT1-02-F	RT1-02-R
600	2	RT2-06-B	RT2-06-F	RT2-06-R
1000	3	RT3-10-B	RT3-10-F	RT3-10-R
1200	3	RT3-12-B	RT3-12-F	RT3-12-R
1500	4	RT3-15-B	RT3-15-F	RT3-15-R
1800	4	RT3-18-B	RT3-18-F	RT3-18-R

Additional Accessories and Pre-Wiring

Extra accessories fitted to trunking to customer requirements.

Item	Order Code
Extra twin switched 13A sockets	SOC-13
Extra fused spurs for overhead lights (3A)	SPU-03
Pre-wiring with 2m flying lead and plug	PRE-W
Data Outlets – RJ45 x 2 in single plate	DAT-02
Pre-wiring of Data Outlet with 2 x 2m CAT5 cables with RJ45 plugs	PRE-DAT

Custom Trunking Modules

Supplied to customer requirements, with any combination of accessories. Please ask for a quotation.

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BENCHES AND BENCH ACCESSORIES

- Modular steel tube bench systems of bolted construction with 20mm static dissipative tops and a range of add-on accessories.
- Frames and accessories are finished in epoxy powder light grey (RAL 7035) with dark grey, dark green or blue drawer and cupboard fronts. All benches have adjustable feet.
- A range of matching extension and side benches for use in-line or at 90° to a main bench to provide flexibility of layout and improved facilities.

Leg Frame Benches

Traditional four-legged bench with welded square tube leg frames, bolted top channels and foot rails. Overhead accessories are supported by bolt-on slotted rear support rails.

Legs: 32 x 32mm tube	Top channels: 70 x 40mm
Foot rails: 25 x 25mm tube	Standard height : 840mm
	760 and 920mm heights are also available.

Delivered in component form with assembly instructions.

Dims. (mm)	Order Code
Neostat C2 Top	
1200 x 600	QBL-1206-N2?
1500 x 600	QBL-1506-N2?
1800 x 600	QBL-1806-N2?
1200 x 750	QBL-1207-N2?
1500 x 750	QBL-1507-N2?
1800 x 750	QBL-1807-N2?
1200 x 900	QBL-1209-N2?
1500 x 900	QBL-1509-N2?
1800 x 900	QBL-1809-N2?
Dissipative Laminate Top	Light Grey
1200 x 600	QBL-1206-LLG
1500 x 600	QBL-1506-LLG
1800 x 600	QBL-1806-LLG
1200 x 750	QBL-1207-LLG
1500 x 750	QBL-1507-LLG
1800 x 750	QBL-1807-LLG
1200 x 900	QBL-1209-LLG
1500 x 900	QBL-1509-LLG
1800 x 900	QBL-1809-LLG

? = Please indicate colour required - grey or blue (G or B)

Leg Frame Extension Benches

To provide a linked worksurface, permanently fixed to the main bench, either in-line or at 90˚.

Dims. (mm)	Order Code
Neostat C2 Top	
900 x 600	QEL-0906-N2?
1200 x 600	QEL-1206-N2?
Dissipative Laminate Top	Light Grey
900 x 600	QEL-0906-LLG
1200 x 600	QEL-1206-LLG

? = Please indicate colour required - grey or blue (G or B)

NOTE:
as these units are supported from the main bench and have only one leg frame, over bench accessories cannot be fitted

STATIC SAFE ENVIRONMENTS

BENCHES AND BENCH ACCESSORIES

Cantilever Benches

Welded rectangular tube end frames with bolted top channels and foot rail, incorporating a rear stiffening/modesty panel. Overhead accessories are supported by bolt-on slotted rear support rails.

Leg frame: 50 x 25mm RHS   Top channels: 60 x 40mm.

Foot rails: 25 x 25mm tube   Standard height : 840mm

Delivered in component form with assembly instructions.

760 and 920mm heights are also available.

Dims. (mm)	Order Code
Neostat C2 Top	
1200 x 750	QBC-1207-N2?
1500 x 750	QBC-1507-N2?
1800 x 750	QBC-1807-N2?
Dissipative Laminate Top	Light Grey
1200 x 750	QBC-1207-LLG
1500 x 750	QBC-1507-LLG
1800 x 750	QBC-1807-LLG

? = Please indicate colour required - grey or blue
(G or B)

Cantilever Side Benches

To provide a linked worksurface, freestanding alongside the main bench, either in-line or at 90˚.

Dims. (mm)	Order Code
Neostat C2 Top	
900 x 600	QEC-0906-N2?
1200 x 600	QEC-1206-N2?
Dissipative Laminate Top	Light Grey
900 x 600	QEC-0906-LLG
1200 x 600	QEC-1206-LLG

? = Please indicate colour required - grey or blue
(G or B)

Wrist Strap Sockets

All benches are fitted with 2 wrist strap sockets, designed to accept either a 4mm banana plug or a 10mm press stud.

Grounding

All benches are supplied with a grounding kit to link the wrist strap sockets and bench to an earth bolt.

Bench Top Materials

All materials are bonded to an 18mm particle board substrate with grey hard plastic lipping.

Neostat C2 - Tough, long lasting static dissipative synthetic rubber, 2mm thick with excellent solder, chemical and heat resistant properties. Leakage resistance: 10^6-10^8 Ω
Blue order ref. -N2B   Grey order ref. -N2G

Dissipative Laminate - A hard high pressure dissipative laminate, 1.3mm thick with excellent solder, chemical and heat resistant properties. Leakage resistance: 10^6-10^8 Ω

Neostat C2 colour option
Grey or Blue

Dissipative Laminate
Light Grey

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BENCHES AND BENCH ACCESSORIES

Height Adjustable Benches

Rectangular tube end frames incorporating a mechanical height adjustment mechanism. Manual crank handle is fitted as standard; a mains powered version is available at extra cost. Overhead accessories are supported by bolt-on slotted rear support rails.
Leg frame: 60 x 40mm RHS.
Top channels: 60 x 40mm.
Foot rails: 40 x 40mm tube.
Height range: 730 - 950mm
Delivered assembled.

Dims. (mm)	Order Code
Neostat C2 Top	
1200 x 750	QBA-1207-N2?
1500 x 750	QBA-1507-N2?
Dissipative Laminate Top	Light Grey
1200 x 750	QBA-1207-LLG
1500 x 750	QBA-1507-LLG

? = Please indicate colour required - grey or blue (G or B)

Height Adjustable Side Benches

Free standing side bench for use in any orientation.
Height range 730 - 950mm

Dims. (mm)	Order Code
Neostat C2 Top	
900 x 600	QEA-0906-N2?
Dissipative Laminate Top	
900 x 600	QEA-0906-LLG

? = Please indicate colour required - grey or blue (G or B)

Wrist Strap Sockets

All benches are fitted with two wrist strap sockets, designed to accept either a 4mm banana plug or a 10mm press stud.

Grounding

All benches are supplied with a grounding kit to link the wrist strap sockets and bench to an earth bolt.

Bench Top Materials

All materials are bonded to an 18mm particle board substrate with grey hard plastic lipping.
Neostat C2 - Tough, long lasting static dissipative synthetic rubber, 2mm thick with excellent solder, chemical and heat resistant properties. Leakage resistance: 10^6-10^8 Ω
Blue order ref. -N2B   Grey order ref. -N2G
Dissipative Laminate - A hard high pressure dissipative laminate, 1.3mm thick with excellent solder, chemical and heat resistant properties. Leakage resistance: 10^6-10^8 Ω

Neostat C2 colour option
Grey or Blue

Dissipative Laminate
Light Grey

STATIC SAFE ENVIRONMENTS

BENCHES AND BENCH ACCESSORIES

● The accessories illustrated on these pages are designed for ease of fitting to the range of standard benches shown on pages 24-26.

Drawers and Cupboards

All drawer and cupboard fronts are available finished in Blue (RAL 5017), Grey (RAL 7024), Green (RAL 6024) or Red (RAL 3003).

Dims. (mm)	Colour	Order Code
Single Drawer		
420 x 420 x 220	Blue	QDS-BLU
420 x 420 x 220	Grey	QDS-GRY
420 x 420 x 220	Green	QDS-GRN
420 x 420 x 220	Red	QDS-RED

Dims. (mm)	Colour	Order Code
Cupboard		
420 x 420 x 435	Blue	QCU-BLU
420 x 420 x 435	Grey	QCU-GRY
420 x 420 x 435	Green	QCU-GRN
420 x 420 x 435	Red	QCU-RED

Dims. (mm)	Colour	Order Code
Triple Drawer		
420 x 420 x 435	Blue	QDT-BLU
420 x 420 x 435	Grey	QDT-GRY
420 x 420 x 435	Green	QDT-GRN
420 x 420 x 435	Red	QDT-RED

560mm high units

Dims. (mm)	Order Code
Drawer over Cupboard	
420 x 420 x 560	QDC-BLU
420 x 420 x 560	QDC-GRY
420 x 420 x 560	QDC-GRN
420 x 420 x 560	QDC-RED

Dims. (mm)	Order Code
Tall Cupboard	
420 x 420 x 560	QCT-BLU
420 x 420 x 560	QCT-GRY
420 x 420 x 560	QCT-GRN
420 x 420 x 560	QCT-RED

Computer Housings

Light grey melamine faced particle board enclosure with open front and back, to house computer units or other equipment.

Internal Dims. (mm)	Order Code
Horizontal Mounting	
400 x 200 x 400	QCH-H4
500 x 250 x 400	QCH-H5

Internal Dims. (mm)	Order Code
Vertical Mounting	
400 x 200 x 400	QCH-V4
500 x 250 x 400	QCH-V5

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BENCHES AND BENCH ACCESSORIES

● The following accessories are quickly fitted to slotted rear support rails, and can be adjusted to suit changing requirements.
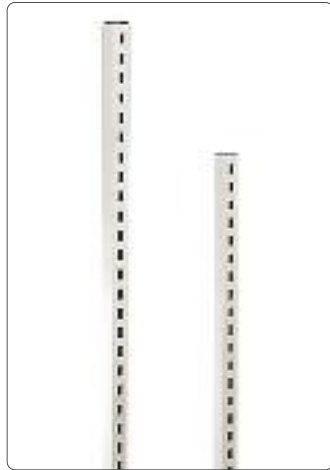
Rear Support Rails

These rails are used to support over-bench accessories. Equipment fits in slots at 35mm centres. Supplied in pairs.

Height above bench (mm)	Order Code
760	QRS-08
1180	QRS-12

Tool Rail/Light Support Frame

Length (mm)	Order Code
Tool Rail/Light Support Frame	
1200	QLT-12
1500	QLT-15
1800	QLT-18

Category	Light Unit	Order Code
1200mm	Single tube 36W	FLU-12-1
1200mm	Twin tube 36W	FLU-12-2

Upper Shelf

Upper shelf in 2 widths with surface options as for bench tops.

Dims. (mm)	Order Code		Dims. (mm)	Order Code		Dims. (mm)	Order Code
Neostat C2			**Dissipative Laminate**			**Standard Vinyl** Grey	
300 x 1200	QUS-1203-N2?		300 x 1200	QUS-1203-LLG		300 x 1200	QUS-1203-V
300 x 1500	QUS-1503-N2?		300 x 1500	QUS-1503-LLG		300 x 1500	QUS-1503-V
300 x 1800	QUS-1803-N2?		300 x 1800	QUS-1803-LLG		300 x 1800	QUS-1803-V
400 x 1200	QUS-1204-N2?		400 x 1200	QUS-1204-LLG		400 x 1200	QUS-1204-V
400 x 1500	QUS-1504-N2?		400 x 1500	QUS-1504-LLG		400 x 1500	QUS-1504-V
400 x 1800	QUS-1804-N2?		400 x 1800	QUS-1804-LLG		400 x 1800	QUS-1804-V

? = Please indicate colour required - grey or blue (G or B)

Louvred Panel Unit

Zinc plated louvred panel and frame, 500mm high panel.

Minimum order - 2 units

Dims. (mm)	Order Code
1200 (650 long louvred panel)	QLP-12
1500 (960 long louvred panel)	QLP-15
1800 (1240 long louvred panel)	QLP-18

STATIC SAFE ENVIRONMENTS

BENCHES AND BENCH ACCESSORIES

Mains Service Panels

Standard panels are fitted with two twin switched 13A sockets and a single aperture with blank plate (for light switches, isolating switches etc.), supplied unwired (or pre-wired with a 3m flying lead and 13A plug, at extra cost).

Dims. (mm)	Order Code
Bench Mounted Pattern	
1200	QSP-B12
1500	QSP-B15
1800	QSP-B18
Rail Mounted Pattern	
1200	QSP-R12
1500	QSP-R15
1800	QSP-R18
Pre wired Panels*	
add to order ref.	-P
* Minimum of 5 panels of assorted lengths	
Residual Current Trip Earth-leakage residual current trip/isolator to provide local protection against mains faults	
Rating 13A (30mA sens.)	QRC-13
Extra Twin Switched Sockets	
Rating 13A	QXS-13

Bottom Shelf

Leg frame benches only.

Dims. (mm)	Order Code
1200	QSB-12-N2
1500	QSB-15-N2
1800	QSB-18-N2

Infill/Modesty Panels

Leg Frame benches only - powder coated steel.

Dims. (mm)	Order Code
End Infill Panel Add ref. to bench order ref.	
600	-EIP-600
750	-EIP-750
900	-EIP-900
? - Please indicate if left hand, right hand or both ends required	
Rear Modesty Panel Add ref. to bench order ref.	
1200	-RMP-1200
1500	-RMP-1500
1800	-RMP-1800

BENCHES AND BENCH ACCESSORIES

Task Lights

Spring counter-balanced arms for fitting to rear support rails to provide localised lighting.

Description	Order Code
11W Low Energy	QPA-TLF
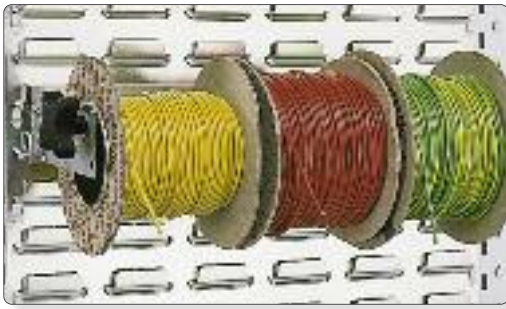
Cable Dispenser

Designed to hook onto louvred panels at any suitable location, with lift-out bar, to accommodate reels up to 250mm diameter.

Tube Length (mm)	Order Code
300	QPA-CD3
400	QPA-CD4

Tool Rack

Galvanised C-section channel and nylon wheeled trolleys, fitted with hooks for the attachment of assembly tools.

Length (mm)	Order Code
1200mm with 2 trolleys	QPA-T12
1500mm with 3 trolleys	QPA-T15
1800mm with 4 trolleys	QPA-T18
Extra trolleys (pack of 5)	QPA-TTT

Flat Screen Monitor Mount

Standard VESA mount with articulated arm and tilt adjustment; fits to rear support

Dims (mm)	Order Code
300mm extended	QMM-03

STATIC SAFE ENVIRONMENTS

ELECTRICAL SAFETY BENCHES

- These benches are constructed from insulative materials and top surfaces or with high resistance static dissipative tops, for use where live testing, repair or development work is undertaken in the presence of exposed conductors carrying hazardous voltages.

- Suitable for use in 'EARTH FREE AREAS' when used in conjunction with other protective measures.

Basic Bench

Construction: varnished hardwood framework with a choice of dissipative rubber or standard laminate tops. Fitted with adjustable feet.
Standard Height: 850mm.

Bench Size (mm)	Order Code	Bench Size (mm)	Order Code
Grey Dissipative Rubber Top		**Grey Standard Laminate Top**	
1200 x 750	ESB-1207-ND	1200 x 750	ESB-1207-SL
1500 x 750	ESB-1507-ND	1500 x 750	ESB-1507-SL
1800 x 750	ESB-1807-ND	1800 x 750	ESB-1807-SL
1200 x 900	ESB-1209-ND	1200 x 900	ESB-1209-SL
1500 x 900	ESB-1509-ND	1500 x 900	ESB-1509-SL
1800 x 900	ESB-1809-ND	1800 x 900	ESB-1809-SL

Upper Shelf

Construction: varnished hardwood framework with a choice of dissipative rubber or standard laminate tops.
Standard Height: 450mm above bench.

Shelf Size (mm)	Order Code	Shelf Size (mm)	Order Code
Grey Dissipative Rubber		**Grey Standard Laminate**	
1200 x 400	ESS-1204-ND	1200 x 400	ESS-1204-SL
1500 x 400	ESS-1504-ND	1500 x 400	ESS-1504-SL
1800 x 400	ESS-1804-ND	1800 x 400	ESS-1804-SL

Cupboard and Drawer Units

Construction: light grey melamine faced particle board with grey laminate faced front.

Dims. (mm)	Order Code
Cupboard	
400 x 400 x 400	ESC-04
Drawer	
400 x 200 x 400	ESD-02

Service Panel

White PVC trunking fitted with two twin switched 13A sockets (unwired). Other accessories can be fitted as required.

Dims. (mm)	Order Code
Angled Type - Bench Mounted	
1120	ESA-11
1420	ESA-14
1720	ESA-17

Electrical Safety Matting

A ribbed black rubber matting, used to provide an insulated floor surface as a protection against electric shock when working on live equipment or apparatus.
Manufactured and tested to BS 921, the matting is 9.5mm thick and supplied in 2 widths.
Specify length required (in mm).

Dims. (mm)	Order Code
915	ESM-9.5-09
1220	ESM-9.5-12

Electrostatic Control

Where required, wrist strap connection points are provided with a minimum resistance to earth of 5 MΩ.
It is recommended that wrist-straps have connecting leads with a resistance of 4 MΩ.

NOTE:
IT IS THE RESPONSIBILITY OF THE USER TO ENSURE THAT THE SAFETY REQUIREMENTS OF THEIR PARTICULAR APPLICATION ARE COMPLIED WITH.

Tel: **01384 898599**
Fax: **01384 898577**
Email: **sse@static-safe.co.uk**
Web: **www.static-safe.co.uk** **(download price list)**

OPERATOR AND TASK CHAIRS

- A range of gas-lift high comfort chairs with static dissipative upholstery, for use in ESD Protected Areas.
- Seat and back pads are bonded to an all-steel frame, with conductive glides or castors
- Upholstery is in a hard wearing, static dissipative woven charcoal, anthracite or blue cloth, with the option of dissipative vinyl with a HEPA filter on the Task chair.

Low model with cloth upholstery and castors.

High model with cloth upholstery and glides.

Operator Chair

Adjustable for seat height, back height and angle and foot ring height.

Low Model
Height Range: with glides   410-530mm
                with castors   440-560mm

Description	Order Code
With glides and cloth	CCF-2430
With glides and vinyl	CCF-2430-CR
With castors and cloth	CCF-2430-C
With castors and vinyl	CCF-2430-C-CR

High Model
Height Range: with glides   475-660mm
Suitable for a worktop height of   670-910mm

Description	Order Code
With glides and cloth	CCF-3490
With glides and vinyl	CCF-3490-CR

PLEASE ADD YOUR COLOUR CHOICE FOR CLOTH UPHOLSTERY TO THE ORDER CODE AS FOLLOWS:
- TB for Twilight Blue
- AN for Anthracite Grey
- CH for Charcoal

Low model with cloth upholstery and castors.

High model with vinyl upholstery and glides.

Task- Chair

Adjustable for seat height, seat angle, back height and angle and foot ring height.

The vinyl upholstered version has a HEPA filter fitted to the seat and is suitable for Class 100 Clean Room applications.

Low Model
Height Range: with glides   410-530mm
                with castors   440-560mm
Suitable for a worktop height of   640-820mm

Description	Order Code
With glides and cloth	CCT-2430
With glides and vinyl	CCT-2430-CR
With castors and cloth	CCT-2430-C
With castors and vinyl	CCT-2430-C-CR

High Model
Height Range: with glides   475-660mm
Suitable for a worktop height of   670-910mm

Description	Order Code
With glides and cloth	CCT-3490
With glides and vinyl	CCT-3490-CR

PLEASE ADD YOUR COLOUR CHOICE FOR CLOTH UPHOLSTERY TO THE ORDER CODE AS FOLLOWS:
- TB for Twilight Blue
- AN for Anthracite Grey
- CH for Charcoal

Upholstery Colours

Twilight

Anthracite Grey

Charcoal

STATIC SAFE ENVIRONMENTS

COLOUR RANGE OPERATOR CHAIR

- A range of gas-lift budget chairs with static dissipative upholstery, for use in ESD Protected Areas.
- Seat and back pads are bonded to the frame, with conductive glides or castors.
- Upholstery is in a hard wearing woven, static dissipative cloth IN A RANGE OF COLOURS.
- The back rest is upholstered on both faces with an anti-abrasion perimeter trim.
- Polished aluminium base and chrome foot ring (when fitted).
- Fully adjustable for seat height, back rest height and angle.

Low Model with Glides
Height Range: 430-560mm
Suitable for a worktop height of 650-800mm

Low Model with Castors
Height Range: 430-560mm
Suitable for a worktop height of 650-800mm

High Model with Glides
Height Range: 500-750mm
Suitable for a worktop height of 730-900mm
Adjustable foot ring

Upholstery	Order Code
Dissipative Cloth	CCC-2430

Upholstery	Order Code
Dissipative Cloth	CCC-2430-C

Upholstery	Order Code
Dissipative Cloth	CCC-3500

Static Dissipative Upholstery Colours

The following colours are available in any quantity for the chairs on this page.

Charcoal
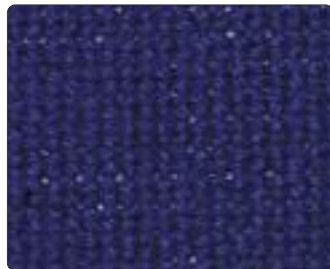
Cobalt

Twilight

Bordeaux

The following colours are available for an order in one delivery of 5 chairs or more from this page, in the same shade.

Anthracite
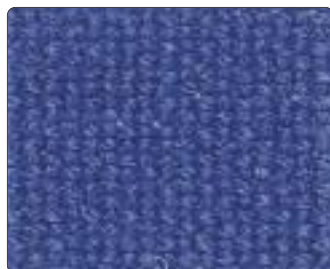
Corinth
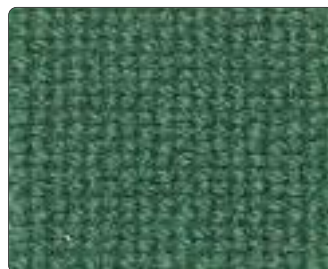
Juniper

Clipper

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Fax: **01384 898577**

Email: **sse@static-safe.co.uk**
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SHELL-BACK CHAIRS

- A range of gas-lift budget chairs with static dissipative upholstery, for use in ESD Protected Areas.
- Seat and back pads are bonded to the frame, with conductive glides or castors.
- Upholstery is in a hard wearing woven, static dissipative cloth in blue or charcoal, or black static dissipative vinyl for clean room use (to class 10,000).
- The back-rest shell is moulded from conductive polymer.
- Polished aluminium base and chrome foot ring (when fitted).
- Fully adjustable for seat height, seat tilt, back rest height and angle.

Blue   **Charcoal**

Woven Upholstery

Low Model with Glides
Height Range: 430-570mm
Suitable for a worktop height of 650-800mm

Low Model with Castors
Height Range: 430-570mm
Suitable for a worktop height of 650-800mm

High Model with Glides
Height Range: 500-690mm
Suitable for a worktop height of 730-900mm
Adjustable foot ring

Upholstery	Order Code
Dissipative Cloth	CCR-2430

Upholstery	Order Code
Dissipative Cloth	CCR-2430-C

Upholstery	Order Code
Dissipative Cloth	CCR-3500

Please specify blue or charcoal when ordering.

Vinyl Upholstery

Low Model with Glides
Height Range: 430-560mm
Suitable for a worktop height of 650-800mm

Low Model with Castors
Height Range: 430-560mm
Suitable for a worktop height of 650-800mm

High Model with Glides
Height Range: 500-750mm
Suitable for a worktop height of 730-900mm
Adjustable foot ring

Upholstery	Order Code
Dissipative Vinyl	CCR-2430-CR

Upholstery	Order Code
Dissipative Vinyl	CCR-2430-C-CR

Upholstery	Order Code
Dissipative Vinyl	CCR-3500-CR

STATIC SAFE ENVIRONMENTS

ECONOMY CHAIRS AND POLYURETHANE CHAIRS

- A range of basic chairs with static dissipative upholstery, for use in ESD Protected Areas.
- Seat and back pads are bonded to an all-steel frame, with conductive glides or castors
- Upholstery is in a hard wearing, static dissipative woven charcoal cloth.

Gas Lift Chair

The height is adjusted by finger-tip operation of the gas-lift control lever. The backrest is depth-adjustable on a clamping knob and the back-pad is mounted on a pivot to give comfortable contact with the user.

Low Model with Glides

Height Range: 460-660mm

Suitable for a worktop height of 650-800mm

Order Code
CCG-2460

Low Model with Castors

Height Range: 480-680mm

Suitable for a worktop height of 700-800mm

Order Code
CCG-2460-C

High Model with Glides

Height Range: 550-800mm

Suitable for a worktop height of 750-970mm

Fixed height foot ring.

Order Code
CCG-3550

- Gas-lift chairs with static dissipative seats and backs moulded from polyurethane rigid foam.
- Ideal for areas where there is a risk of mechanical damage or in a contaminating environment, or cleanrooms.

Low Model with Glides

Height Range: 430-570mm

Suitable for a worktop height of 700-800mm

Order Code
CCP-2430

Low Model with Castors

Height Range: 430-570mm

Suitable for a worktop height of 700-800mm

Order Code
CCP-2430-C

High Model with Glides

Height Range: 500-690mm

Suitable for a worktop height of 750-970mm

Adjustable height foot ring.

Order Code
CCP-3500

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FOOTRESTS AND SPECIALIST SEATING
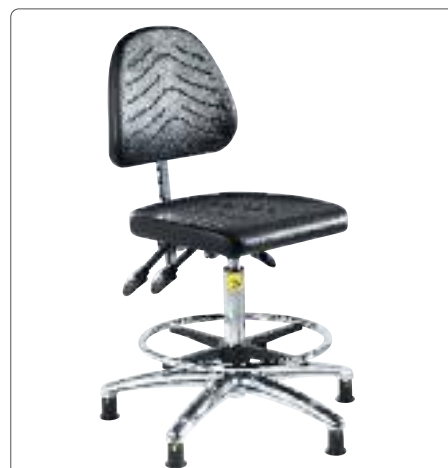
- Seating designed for use in tasks where mobility is important.
- Reduces fatigue and encourages a good ergonomic posture.

Saddle Chair

Upholstered in static-dissipative vinyl with gas-lift height adjustment and load-locking castors.

Height Range: 590-840mm

Suitable for a worktop height of 800-1000mm.

Sit-Stand with Glides

The seat is moulded from static dissipative polyurethane, with gas-lift height adjustment.

Height Range: 590-840mm

Suitable for a worktop height of 800-1000mm.

Sit-Stand with Castors

The seat is moulded from static dissipative polyurethane, with gas-lift height adjustment.

Castors are load-locking for safety.

Height Range: 590-840mm

Suitable for a worktop height of 800-1000mm.

Order Code
CSC-4590

Order Code
CSS-4590

Order Code
CSS-4590-C

- Footrests are essential for correct ergonomic posture, relieving thigh-pressure from chair seats and allowing the operative to sit without strain.
- All models have static dissipative properties and can be grounded through a suitable floor, mat or by the attachment of a ground lead.

Low Adjustable Foot Rest

Height Range: 50-230mm

Suitable for a worktop height of 700-850mm

Order Code
FRL-950

High Adjustable Foot Rest

Height Range: 230-340mm

Suitable for a worktop height of 850-1000mm

Order Code
FRH-951

Variable Footrest

This footrest is adjusted and locked by toe pressure from a sitting position, so is ideal for a workstation that has to accommodate different operatives.

Height Range: 80-290mm

Order Code
CFA-100

STATIC SAFE ENVIRONMENTS

ESD SAFE VACUUM CLEANERS

- **Vacuum cleaners designed to eliminate ESD risks, provided with conductive components to ensure grounding and to eliminate charge generation.**
- **Designed for routine maintenance on electronic equipment, copiers, printers and other peripherals.**

Miniature Cylinder Model

Features electronic speed control with a choice of filters for general applications. Uses a disposable bag system, with changeable filters and an optional exit filter for high integrity particle elimination down to sub-micron levels.
Basic model includes 300 x 21mm flexible nozzle, shoulder strap and 3m mains lead.
Allows use as an air blower with the hose fitted to the exit end.
Hose length: 1.3m   Motor: 1300W effective.

Description	Order Code
Variable Speed Vacuum	PVM-555-ESD-V
3.5m Extension Hose	PH-18-ESD
Conductive Carrying Case	WCC-4320
Replacement Filter Bags (pack of 10)	PH-723

Accessories

Filters

Nozzles
Flexible nozzle

Description	Order Code
Motor Filter	PH-725
HEPA Motor Filter	PH-726
HEPA Exit Filter	PH-705

Dims. (mm)	Order Code
430 x 16	PHU-19

Crevice Nozzle with Brush Tip

Dims. (mm)	Order Code
250 x 25	PHU-16

Angled Nozzle with Brush

Dims. (mm)	Order Code
250 x 25	PHU-08

EPA-Cleanroom Vacuum Cleaner

A high efficiency vacuum cleaner for EPA applications, upgradeable to HEPA and ULPA standards for cleanroom use. Supplied with accessories as illustrated, which include:-

- 3m extendible hose
- 3 steel plated extension tubes
- Crevice nozzle
- Brush nozzle
- Upholstery nozzle
- 330mm floor nozzle

Motor rating: 1300W variable speed.

Description	Order Code
Vacuum Cleaner with Accessories	PVM-777-ESD-V
9 litre paper filter bags – pack of 10	MT-750
9 litre meltblown filter bags – pack of 10 (use for HEPA filtration performance)	MT-751
Replacement motor and exit filter set	MT-752-756
Replacement motor and exit filter set (use for HEPA filtration performance)	MT-753-757

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FUME PURIFICATION

● The Purex, Portable fume purification units provide low cost protection from noxious fumes at individual work stations.

FumeCube™ Portable Extraction

A compact and efficient unit for use where flexibility is required. Provides sub-micron particle and gas filtration, with a large HEPA main filter.

Features include:

● very quiet operation (Whisper Stream™)
● electronic flow control
● visual warning indicators (VariColour™)
● variable speed settings
● stainless steel housing
● single or dual arm

TECHNICAL SPECIFICATION

Power Supply:	230V at 0.14kW 50/60Hz
Sound Level:	60dBA
Flow Rate:	200 m³ per hour
Dimensions (mm):	350mm high x 308mm wide x 283mm deep
Weight:	2.5kg

Single Arm Kit

FumeCube
Main filter + pre-filter pad
51mm x 2m flexible hose
2 connecting cuffs
Clamp bracket
38mm stainless steel flexible arm
38mm pen nib nozzle

Order Code
PUR-072-066

Dual Arm Kit

FumeCube
Main filter + pre-filter pad
2 51mm x 2m flexible hoses
4 connecting cuffs
2 Clamp brackets
2 38mm stainless steel flexible arm
2 38mm pen nib nozzle

Order Code
PUR-072-065

Purex® Fumebuster Systems

Designed to protect up to 4 personnel from inhaling hazardous fume and dust at the workbench using low cost easy to install kits.
Choose from high volume 75mm diameter purification arms, high velocity 38mm diameter arms, aerodynamically efficient plenum cowls and Purex Cleancab fume purification cabinets.

Typical Application Areas
Fumebuster's robust design is equally suited to the workshop and the production line where it is used to purify fumes from:

● tinning and potting
● gluing
● soldering assembly and rework and repair stations
● chemical treatments
● dust applications

PLEASE REQUEST A QUOTATION FOR THIS PRODUCT

Typical Arrangements
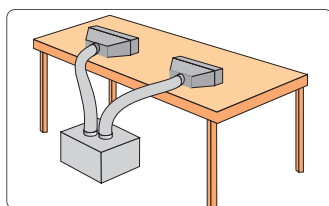
2 Plenum Cowls
2 Arm with Wide Conical Nozzles
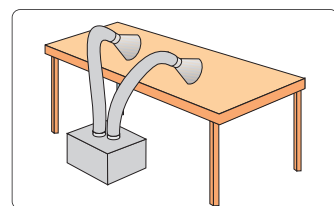
2 Cabinets
4 Flexible Arms

STATIC SAFE ENVIRONMENTS

WORKSTATION KITS

- Standard kits designed to provide an electrostatic protected area (EPA) on existing benches
- The static dissipative mats can be fixed with the adhesive tape, or loose laid.

Work Station Kit

Use this kit for assembly and repair where soldering or chemicals are present. Consists of a two layer Neostat C2 bench mat fitted with 2 x 10mm male press studs: supplied with an elasticated wrist strap and extendible lead, 3600mm extendible ground lead, earth plug and a 5m roll of double sided adhesive tape.

Bench mat colours available: Grey, Beige, Green or Blue
Please specify colour when ordering.

Mat Size	Order Code
1000 x 600	WSK1-1006
1200 x 600	WSK1-1206
1500 x 600	WSK1-1506
1800 x 600	WSK1-1806

Technical Ref: See page 12 for the specification of Neostat C/2 and alternative mat materials.
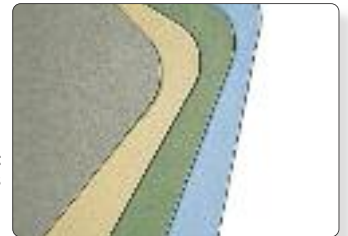
Bench mat colours

Configuration Kit

A specialist kit designed for use when carrying out PCB installation in computers and other electronic equipment.
The kit comprises a small Neostat C2 mat fitted with 2 x 10mm male press studs, wrist band and lead, ground lead and an earth plug.

Mat colours available:
Blue, Grey, Green or Beige.
Please specify colour when ordering.

Dims. (mm)	Order Code
300 x 200	FCC2-0302
400 x 300	FCC2-0403
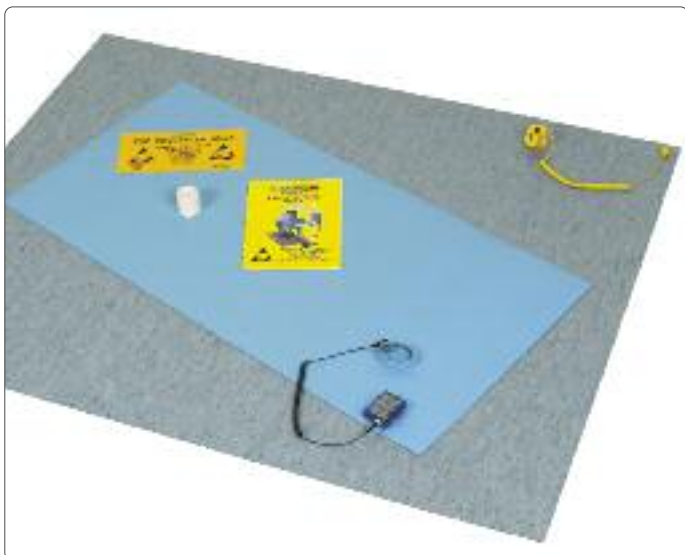
EPA Super-Kit

A kit with all the items required to set up a fully protected EPA work-station, including:-
- Blue or grey Neostat C2 bench mat with four 10mm press studs.
- 2.4m ground lead with earth plug.
- Wrist strap with elasticated band and 1.8m coiled cord.
- Jewel continuous workstation monitor (see page 43 for details).
- Dissipative vinyl floor mat with ground lead.
- EPA warning sign (150 x 75mm self adhesive).
- ESD awareness guide.

Please specify blue or grey mats when ordering.

Floor mats are supplied 300mm longer than the bench mat x 750mm wide.

Alternative sizes and configurations can be supplied – please ask for a quotation.

Description	Order Code
1200 x 600mm bench mat	ESK-1206
1500 x 600mm bench mat	ESK-1506
1800 x 600mm bench mat	ESK-1806

STATIC SAFE ENVIRONMENTS

FIELD SERVICE KITS

● **A range of portable kits designed for the field service or site maintenance engineer, to create a temporary ESD protected area (EPA).**

Pocket-Style Field Service Kits
Light Weight "Pocket Style" kit comprising a dark blue static dissipative vinyl mat and wallet set. Available with or without plug.
Mat size: 610 x 610mm

Description	Order Code
Mat, wallet and leads	FSB-0606
Mat, wallet, leads and plug	FSB-0606-P

Field Service Kit With Pouch
450 micron red laminated dissipative vinyl with 3m common point ground cord, large threaded grounding clip and adjustable wrist strap with coiled cord. Supplied with canvas carrying pouch.
Surface resistivity 10^8- $10^9\Omega$.

Description	Order Code
Field Service Kit	CW-80720

T2 Field Service Kit
Consists of a two-layer Euro T2 dissipative rubber mat with 2 - 10mm press studs, 2.4m ground lead, earth plug and wrist strap. The kit can be rolled up with the accessories inside for compact storage.
Available in blue and grey
Add -B or -G to order code

Description	Order Code
Mat size 500 x 400mm	FST2-0504
Mat size 600 x 500mm	FST2-0605

Portable Wrist Strap Checker
Enables field service engineers to carry out daily checks on wrist strap assemblies, as worn.

Description	Order Code
Portable Checker	PWC-0135

Tel: **01384 898599**
Fax: **01384 898577**
Email: **sse@static-safe.co.uk**
Web: **www.static-safe.co.uk** **(download price list)**

BENCH COVERINGS

- **A range of materials for covering work surfaces in electrostatic protected areas (EPAs) with static dissipative properties.**
- **All materials are available cut to customer requirements.**
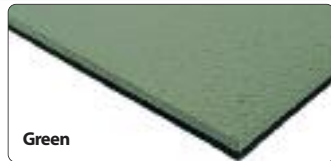
Neostat C2 Flexible Matting

Neostat C2 is an exceptionally tough two layer static dissipative synthetic rubber material, 2mm thick, which is easy to maintain and has a long life. Textured top layer with excellent heat and solder resistant properties and conductive backing. Designed for general purpose applications - either loose laid or adhered to work surfaces.

Available in standard mat sizes as below or cut to size

ASK FOR YOUR FREE SOLDER TEST SAMPLE, SIZE; 100 x 50mm

Neostat C2 Standard Mats

Dims. (mm)	Order Code
900 x 600	BMC2-0906
1000 x 600	BMC2-1006
1200 x 600	BMC2-1206
1500 x 600	BMC2-1506
1800 x 600	BMC2-1806

SPECIFICATION

Leakage Resistance: 10^6-10^8 Ω
Thickness: 2mm
Material width: 1200mm
Full roll length: 10m
Weight: 2.7kg per sq.m

Neostat C2 Cut Lengths   ???? = Length in mm

Dims. (mm)	Order Code
1000 wide	BMC2-????-10
1200 wide	BMC2-????-12

Neostat C2 Full Rolls

Dims. (mm)	Order Code
10m x 1000 wide	BMC2-ROLL-1000
10m x 1200 wide	BMC2-ROLL

Grey

Green

Blue

Beige

PRESS STUD CODES FOR BENCH MATS
Add to Order Code to indicate positions required.

-1A	-1B	-2A	-2B
-3A	-3B	-4A	-5A	-5B
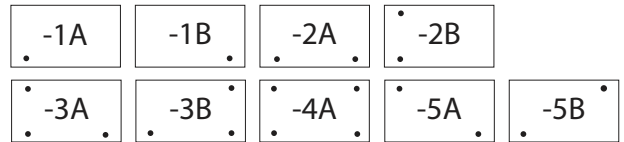
Please add colour choice when ordering; Grey - Beige - Blue - Green

Bench-Saver Mats

Neostat C2 mats used to protect bench surfaces from damage and contamination. Used over the top of a dissipative surface, these mats do not require independent grounding. Press studs can be fitted if required. Colours as Neostat C2 above; please specify

Dims. (mm)	Order Code
600 X 300	BSC2-0603
600 X 400	BSC2-0604
600 X 600	BSC2-0606

Cutting Service

In addition to the range of standard mats, SSE offer a cutting service to customers requirements.

Note: tolerance on cut mat dimensions is as follows: up to 2000mm ±2mm   up to 3000mm ±3mm   over 3000mm ±5mm

STATIC SAFE ENVIRONMENTS

BENCH COVERINGS

BENCH COVERINGS

Statfree® Type Euro-T2 Dissipative Dual Layer Rubber

Durable rubber material with dissipative work surface and conductive backing layer, lightly embossed to reduce reflections. Compatible with continuous monitors.

Description	Order Code
Pre-cut Mats	
900 x 600mm Blue	CW-80582
900 x 600mm Grey	CW-80584
1200 x 600mm Blue	CW-80583
1200 x 600mm Grey	CW-80585
Full Rolls	
12.2m x 600mm Blue	CW-80657
12.2m x 600mm Grey	CW-80660
12.2m x 760mm Blue	CW-80658
12.2m x 760mm Grey	CW-80661
12.2m x 1200mm Blue	CW-80659
12.2m x 1200mm Grey	CW-80662

SPECIFICATION
Dissipative Side
$Rp\ 10^6 – 10^8\ \Omega$
$Rg\ 10^6 – 10^8\ \Omega$
Conductive Side
$Rp\ 10^3 – 10^4\ \Omega$
$Rg\ 10^3 – 10^4\ \Omega$
Thickness: 1.8mm

Statfree® Type 0 Dissipative Homogenous Vinyl

Thick, energy absorbing cushion material , compatible with continuous monitors.
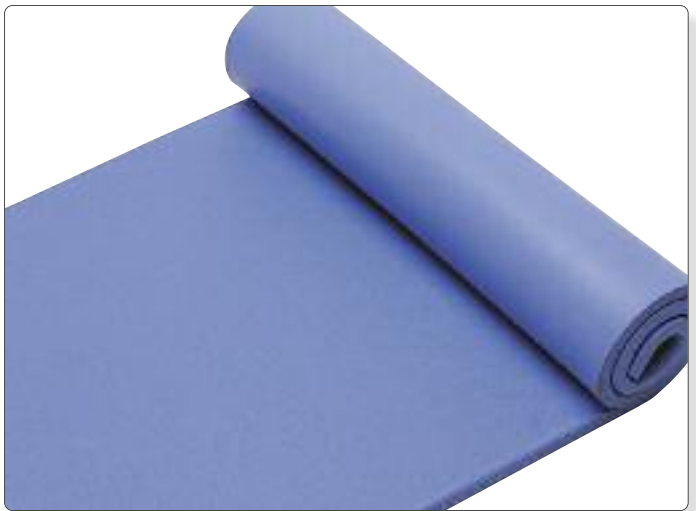
STATFREE® Type 0 Full Rolls

Description	Order Code
18.3m x 600mm	CW-80530
18.3m x 900mm	CW-80532

STATFREE® Type 0 Cut Lengths

Description	Order Code
600mm wide	CW-80530-LM-???
900mm wide	CW-80532-LM-???

(??? = Specify length required in mm)

SPECIFICATION
$Rp\ 10^6 - 10^7\ \Omega$
$Rg\ 10^6 - 10^7\ \Omega$
Thickness: 9.5mm
Colour: blue

Micastat® Dissipative Laminate

Low tribocharging, high pressure laminate with patented conductive layer.
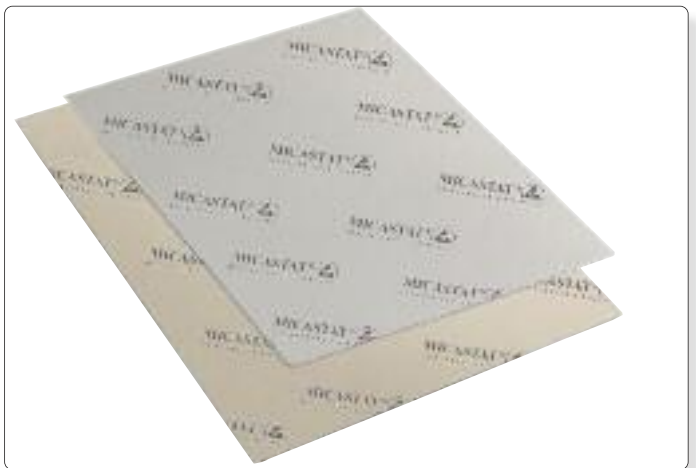
Description	Order Code	
Sheet Size (Nominal)	**Beige**	**Grey**
2400 x 760mm	CW-90022	CW-90066
3000 x 760mm	CW-90024	CW-90068
3600 x 760mm	CW-90026	CW-90070
2400 x 910mm	CW-90028	CW-90072
3000 x 910mm	CW-90030	CW-90074
3600 x 910mm	CW-90032	CW-90076
2400 x 1200mm	CW-90034	CW-90078
3000 x 1200mm	CW-90035	CW-90079
3600 x 1200mm	CW-90036	CW-90080
2400 x 1500mm	CW-90038	CW-90082
3000 x 1500mm	CW-90040	CW-90084
3600 x 1500mm	CW-90042	CW-90086

SPECIFICATION
$Rp\ 10^6 - 10^9$ ohms.
$Rg\ 10^6 – 10^8$ ohms.
Charge decay: <0.009 seconds (FTMS-101 C method 4046)
Voltage Suppression: 0 Volts (ETS method)
Thickness: 0.97mm.

Micastat® Grounding

FLUSH MOUNT INSERT
The flush mount insert provides an excellent ground path for static dissipative laminate such as Micastat.

Order Code
CW-90202

FLUSH MOUNT INSERT WITH DUAL BENCH MOUNT WRIST STRAP POINT
This item includes all components in CW-90202 and all items to ground two wrist straps with 10mm press stud or 4mm banana plug terminations.

INSTALLATION TOOL
Use tool to install the CW-90202/4

Order Code
CW-90204

Order Code
CW-90200

Item # 60354
Wrist Strap Ground
sold with item
90204 only

Tel: **01384 898599**
Fax: **01384 898577**

Email: **sse@static-safe.co.uk**
Web: **www.static-safe.co.uk** (download price list)
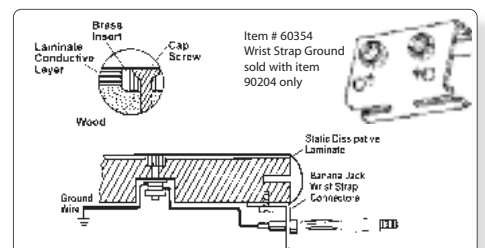
REPLACEMENT BENCH TOPS

- These tops can be used to upgrade existing benches to provide static dissipative work surfaces for a range of applications.
- Standard sizes are shown below. We can manufacture to specific requirements, both in terms of size, shape and thickness.
- For standard tops, surface materials are bonded to an 18mm particle board substrate with a balancing laminate on the reverse. Standard thickness: 20mm
- Samples of surface materials are available on request.

Standard Tops

Neostat C2 Tough, long lasting static dissipative synthetic rubber, 2mm thick with excellent solder, chemical and heat resistant properties.
Leakage resistance: 10^6-10^8 Ω

Description	Order Code
1200 x 600	RTN-1206-?
1200 x 750	RTN-1207-?
1200 x 900	RTN-1209-?
1500 x 600	RTN-1506-?
1500 x 750	RTN-1507-?
1500 x 900	RTN-1509-?
1800 x 600	RTN-1806-?
1800 x 750	RTN-1807-?
1800 x 900	RTN-1809-?

-? Please add material colour preference:
Grey: -GRY Blue: - BLE Green: -GRN Beige: -BGE

Dissipative Laminate A hard high pressure dissipative laminate, 1.0mm thick with excellent solder, chemical and heat resistant properties.
Leakage resistance: 10^6-10^8 Ω
Colour: grey

Description	Order Code
1200 x 600	RTL-1206
1200 x 750	RTL-1207
1200 x 900	RTL-1209
1500 x 600	RTL-1506
1500 x 750	RTL-1507
1500 x 900	RTL-1509
1800 x 600	RTL-1806
1800 x 750	RTL-1807
1800 x 900	RTL-1809

Dissipative Melamine Faced Particle Board An economical alternative to laminate, this material has a dissipative melamine surface on both sides, with a conductive substrate.
Overall thickness: 19mm
Colour: grey

Description	Order Code
1200 x 600	RTM-1206
1200 x 750	RTM-1207
1200 x 900	RTM-1209
1500 x 600	RTM-1506
1500 x 750	RTM-1507
1500 x 900	RTM-1509
1800 x 600	RTM-1806
1800 x 750	RTM-1807
1800 x 900	RTM-1809

Custom Tops

A guide to the prices for special size tops, assuming that the shape is rectangular, can be found by using the price of the nearest standard size above.

Blue

Grey

Neostat C2

Beige

Green

Laminate

REPLACEMENT BENCH TOPS

STATIC SAFE ENVIRONMENTS

ANTI-FATIGUE FLOOR MATS
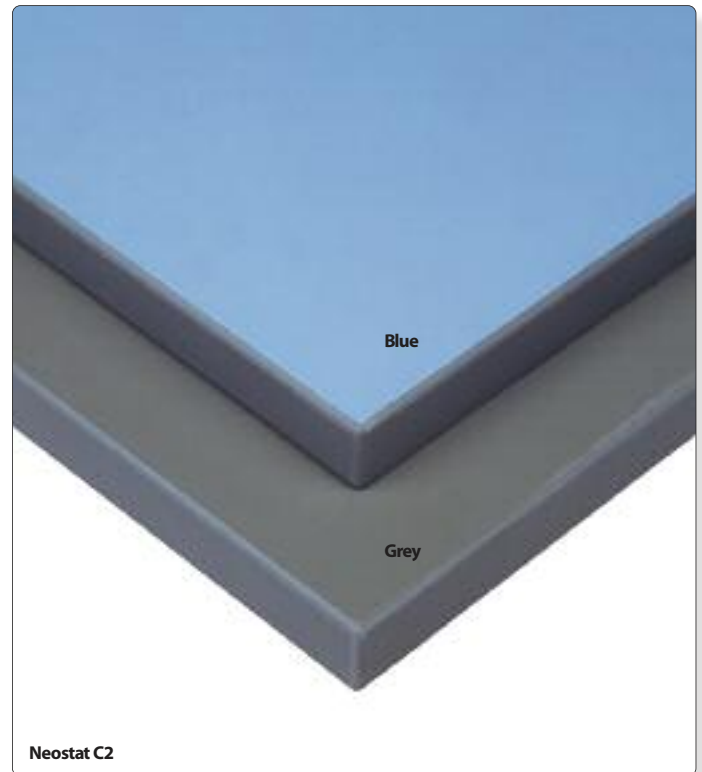
Diamond Pattern Extra Heavy Duty Anti-Fatigue Mat

Heavy Duty 4mm diamond pattern vinyl surface with a nitrile foam base, tapered edges and rounded corners.

Description	Order Code
1520 x 910mm	DAF-1509

SPECIFICATION

Rp 10^3-10^5 Ω
Rg 10^3-10^5 Ω
Thickness: 14mm

**This product is available as a continuous runner, up tp 22.50m x 0.91m wide.
Please contact our Sales Team for pricing on this option.**

Statfree® Type S Plus Dissipative Anti-Fatigue Matting

Cross- link vinyl/nitrile rubber construction with a durable top wear layer having a slip and soil resistant heavy embossed texture, with bevelled long edges.

STATFREE® Type S Full Rolls

Dims. (mm)	Order Code
18.3m x 900mm roll grey	CW-80135
18.3m x 1200mm roll grey	CW-80136

STATFREE® Type S Cut Lengths

Dims. (mm)	Order Code
900 wide per metre	CW-80135-LM-???
1200mm wide per metre	CW-80136-LM-???

(??? = Specify length required in mm)

SPECIFICATION

Rp 10^7-10^9 Ω
Rg 10^7-10^9 Ω
Thickness: 9.5mm

Statfree® Type i Conductive Anti-Fatigue Interlocking Rubber

Statfree Type i offers the choice of multiple lengths and widths, manufactured from durable homogeneous rubber with patterned interlocking strip. Easily trimmed.

Description	Order Code
Individual Mats	
0.6 m x 0.9 m mat, black	CW-80650

SAFETY NOTE:
Care must be exercised in the use of conductive floor mat materials with inherent resistance values below 1 MΩ.
Do not use in contact with grounded metalwork, machinery, low resistance sub-floors or other equipment.
Where mains powered equipment is in use it is recommended that higher resistance materials are chosen.
Always ground through connections incorporating 1 MΩ resistors
BS EN 61340-5-1 recommends that resistance to ground (Rg) > 7.5×10^5 Ω when a floor is used for primary grounding.

Tel: **01384 898599**
Fax: **01384 898577**

Email: **sse@static-safe.co.uk**
Web: **www.static-safe.co.uk** (download price list)
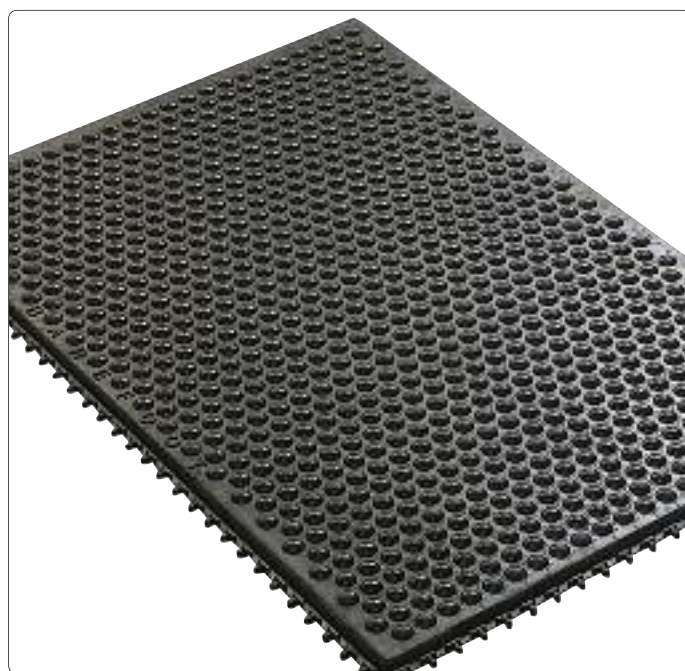
FLOOR MATS

- An essential part of the static control work station where there is no permanent dissipative flooring.
- Provides initial discharge of personnel and trolleys approaching the work area.

Neostat D2 Synthetic Rubber Floor Mats

A two layer synthetic rubber mat with a dissipative surface and a conductive backing. Resistant to hot solder and chemicals.

Available in full rolls, cut lengths or as standard pre-cut mats.

Dims. (mm)	Order Code
Standard Mats	
1200 x 1200	NED2-1212
1500 x 1200	NED2-1512
1800 x 1200	NED2-1812
2100 x 1200	NED2-2112
Cut Lengths ????=Length in mm.	
1200 wide	NED2-????-12
Full Rolls	
10m x 1200mm	NED2-ROLL

SPECIFICATION

Earth leakage resistance:
Average falls between
10^6 - 10^8 Ω
Thickness: 2.5mm

Static Dissipative Vinyl Floor Mats 7300 Range

Sheet vinyl floor mats, 2mm thick with a conductive backing, available as standard mats, cut to customer requirement or in full rolls.

Dims. (mm)	Order Code
Standard Mats	
1500 x 1000	FMV-1510
2000 x 750	FMV-2007
2500 x 750	FMV-2507
3000 x 750	FMV-3007
2000 x 1500	FMV-2015
Cut Lengths ????=Length in mm	
1500 wide	FMV-????-15
Full Rolls	
25m x 1500mm	FMV-7300

Colour: Dove

SPECIFICATION

Earth leakage resistance:
average falls between
10^6 - 10^8 Ω
Thickness: 2.0mm

OTHER COLOURS AVAILABLE
TO ORDER IN FULL ROLLS

Dove

Installation Accessories

Items to facilitate the installation of floor mats and other sheet materials.

Dims. (mm)	Order Code
Double Sided Adhesive Tape	
50m x 50mm	DST-5050
5m x 50mm	DST-0550
Edge Strip Supplied with screws and plugs	
2400 x 25mm	AES-2402

Dims. (mm)	Order Code
Cover Strip Supplied with screws and plugs	
2400 x 25mm	AJS-2400
Floor Earth Bonding Box	
with test point terminal	EPB-F
Brass Foil Strip to link adjacent mats	
18mm wide	BFS

Feather Edge Strip

Fitted with adhesive tape around the perimeter of static dissipative mats to avoid a trip hazard and allow easy movement of trolleys. Supplied in 15m rolls with double-sided adhesive tape.

Description	Order Code
15m roll x 2mm	VFS-1502-A
15m roll x 3mm	VFS-1503-A

STATIC SAFE ENVIRONMENTS

FLOOR PANELS AND ENTRANCE MATS
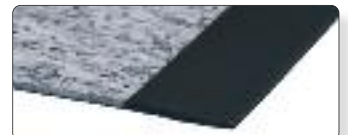
V-LOK Interlocking Floor Panels

A system of interlocking floor panels, with static dissipative tiles bonded to a conductive base panel, with interlocking tags, providing a clean and durable ESD control floor area. Ramped edges are fitted where access is required.

Panels are easily removed and fully reusable in a new configuration.

Panel size: 608 x 608 x 10mm
Ramp edge: 150mm wide

Description	Order Code
V-LOK Panels	
Pack of 5 panels	VLK-605
Single panels	VLK-601
Ramp Edge	
Straight lengths (per meter)	VLR-15
90°mitred corners	VLM-15

SPECIFICATION

Earth leakage resistance: average falls between 10^7-10^9 Ω
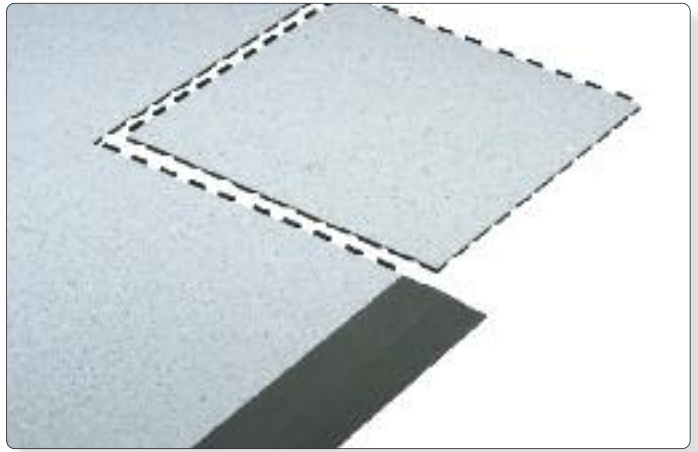
Ramp edge is supplied with adhesive tape fitted.

See page 48 for ground leads for this system.

Grey

Blue
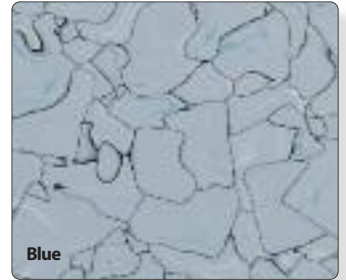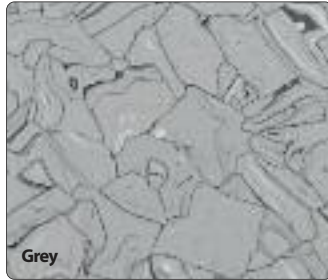
Walk Off Mats

Designed as an entrance mat for ESD protected areas (EPAs), to reduce soiling from personnel entering and providing an initial discharge path. Colour: Grey

SPECIFICATION

Earth leakage resistance: average falls between 10^7-10^9 Ω
Thickness: 4.0mm
Weight: 2.5kg per sq.m

Description	Order Code
1500 x 850	WOM-1508

PRESS STUD CODES FOR FLOOR MATS
Add to Order Code to indicate positions required.

-1A	-1B	-2A	-2B

Clean-Step Entrance Mats

These mats, offered in two sizes, have a tacky surface to captures dirt from shoes, on contact. The base frame holds a pad of 60 numbered films, which are peeled off when soiled. Replacement pads are available for replenishment.

Frame size (mm)	Order Code
800 x 600	CSE-0806
1300 x 600	CSE-1308
Replacement Pads (2 required for CSE-1308)	
750 x 600	CSR-0706

White

Blue

Grey

Tel: **01384 898599**
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Email: **sse@static-safe.co.uk**
Web: **www.static-safe.co.uk** (download price list)

SSE

MAT GROUNDING

Mat Ground Cord with 10mm Socket

3m straight lead with 10mm female snap socket, ring terminal at end of cord (extra ring terminal included).

Order Code
CW-60358

EPA Grounding Point Cord for Bench Mat and 2 Wrist Straps

Low profile, two banana jacks and either socket or ring terminal at cord end. (Ring terminal versions have extra ring terminal).
Note: requires female stud on mat.

Description	Order Code
Banana jack inputs, 10mm mat stud, 4.5m with ring terminal, 1MΩ resistor	CW-60348
Banana jack inputs, 10mm mat stud, 4.5m wire, 10mm socket, 1 MΩ resistor	CW-60349
Shrouded banana plug inputs, 10mm mat stud, 4.5m wire, ring terminal, 1 MΩ resistor	CW-60361

Interconnecting Leads

These leads provide connections between the individual elements of an EPA and are made up to customer requirements, with a choice of terminations. Straight cable is used up to 900mm long; above this a universal coiled lead is supplied which extends to 2000mm.
NOTE: These leads do not incorporate a safety resistor, and should never be used with a wrist band.
Order Code Format: (up to 900mm)
Coiled lead: Order Code IL-2 C-?-?
IL-length in mm-end1-end2 e.g. IL-600-10F-R8 using codes as illustrated.

Spade terminal in 4 sizes 4, 5, 6, or 8mm

4mm banana plug

10mm female stud

Ring terminal in 4 sizes 4, 5, 6, or 8mm

Typical lead with 10mm female stud and ring trminal on a coiled lead
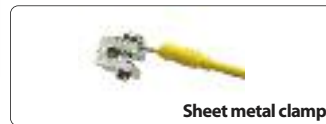
10mm male/female

Sheet metal clamp

Description	Order Code
Straight Lead up to 900mm	IL-???-?-?
Coiled Lead up to 2000mm	IL-2C-?-?
Spade terminal	-S4-S5-S6-S8
4mm banana plug	-4BP
10mm female stud	-10F
Ring terminal	-R4-R5-R6-R8
10mm male/female	-10MF
Sheet metal clamp	-SMC

Shrouded Floor and Table Mat Ground Cord

10mm male shrouded stud with either ring terminal or 10mm press stud termination at the ground end.
Note: requires female stud on mat.

Description	Order Code
Ring terminal	CW-60474
10mm press stud	CW-60488

Universal Snap Kit

User installed snap for homogeneous and multi layer mats. Kit includes a 10mm socket, 10mm stud, long and short screws and a ground label.

Order Code
CW-80014

Push and Clinch Snap Socket

Recommended for multi-layer mats with a conductive inner layer for push and clinch installation. Pronged 10mm socket snap with ground label.

Order Code
CW-80008

STATIC SAFE ENVIRONMENTS

GROUNDING ACCESSORIES

Press Stud Connectors

10mm nickel plated studs to fit to mats, leads and equipment. Studs fitted with either a hand punch or mandrel using a hammer, or with a press which has interchangeable dies.

10mm Male Press Studs
Male stud for fitting to mats and equipment with hand punch set.

	Order Code
Pack of 10	PSM-10

Screw-In 10mm Male Press Stud
Supplied with plated self tapping screw.

	Order Code
Pack of 10	PSM-10S

10mm Female Press Stud
Female stud for fitting to ring terminals with hand punch set.

	Order Code
Pack of 10	PSF-10

10mm Female Lead Termination
Crimp terminal with 10mm female stud for lead termination.

	Order Code
Pack of 10	CRT-10F

10mm Male Clinch Stud
To fit to fabrics and thin matting.

Order Code
PTM-10

10mm Female Clinch Stud
To fit to fabrics and thin matting.

Order Code
PTF-10

Lead Extender
Double 10mm male press stud to clip two leads end to end.

Order Code
LEX-10

4mm Socket Converter
Installed with a punch to convert Banana Jack to 10mm male stud connection.

Order Code
CW-80020

10mm Male Punch Set
Setting tool for male studs.

Order Code
PSM-PUNCH

10mm Female Punch Set
Setting tool for female studs.

Order Code
PSF-PUNCH

Crimp Pliers
For setting CRT-F terminators.

Description	Order Code
Ratchet type	CRT-CP-R

Stud Converter

Description	Order Code
10mm female to male	CW-80012
10mm male to female	CW-80010

Hand Press

For quick and accurate setting of male and female press studs on larger installations. Supplied with 2 sets of replaceable dies.

Order Code
PS-PRESS

Press Stud and Termination Kit

A comprehensive selection of studs.

100 x	PSM-10 male press stud and posts
100 x	PSF-10 female press studs and caps
100 x	CRT-10F female cable terminations
50 x	-R5 ring terminals
50 x	-R8 ring terminals
10 x	-SMC sheet metal clamps
10 x	LEX-10 lead extenders
1 x	PSM-PUN male punch set
1 x	PSF-PUN female punch set
1x	CRT-CP-R crimp pliers

Order Code
PSK-10

Tel: **01384 898599**
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Email: **sse@static-safe.co.uk**
Web: **www.static-safe.co.uk** (download price list)

WRIST BANDS AND CORDS

JEWEL™ Adjustable Wrist Band

Extra wide, soft, elasticated, high visibility band with silver impregnated knitted nylon on inside for superior conductivity. Patented adjustment eliminates 'tail' of band showing. Bands are fitted with press-studs, compatible with the coiled cords shown opposite.

Colour	Order Code 10mm stud
Sapphire Clasp	CW-60001
Ruby Clasp	CW-60003
Amethyst Clasp	CW-60020
Topaz Clasp	CW-60007
Emerald Clasp	CW-60009

JEWEL™ Rapid Retraction Coiled Cords

These high quality cords are tested to 40m cycles and are manufactured from rapid retraction strength polyurethane, colour coded for high visibility and with an improved press-stud design. The cords include a 1 MΩ resistor at the wristband end and a 4mm banana plug termination.
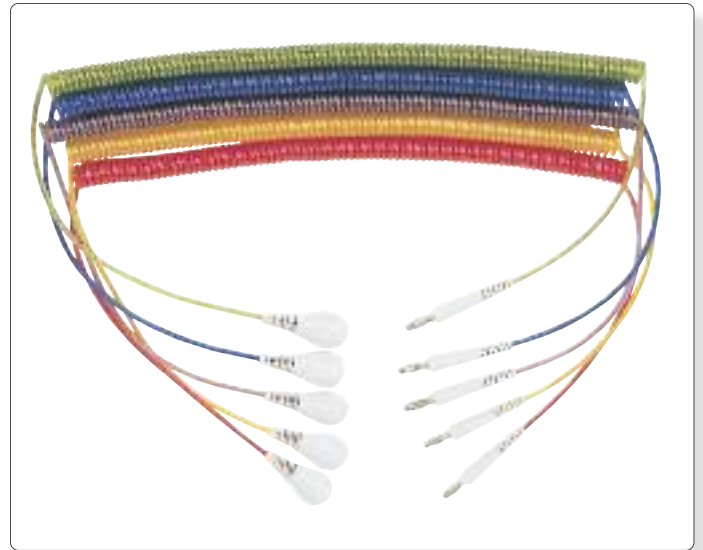
Colour	Order Code 10mm stud
Sapphire	CW-60261
Ruby	CW-60263
Topaz	CW-60265
Emerald	CW-60267
Amethyst	CW-60269

Adjustable SPEIDEL® Wristband

Durable metal band gives superior skin contact with fast adjustment. A non-flaking or scratching laminated insulator is applied to all external surfaces, with an inner surface of medical grade stainless steel.

Description	Order Code
10mm Stud version	CW-60106
4mm Stud version	CW-60148
10mm Stud extra large	CW-60108
4mm Stud extra large	CW-60150

Dual Wire Wrist Strap

These wrist straps are designed for use with continuous monitors (see page 46) providing ultra-reliable personal grounding in critical applications. Extendible leads incorporate a 1MΩ resistor in each press stud end. Clean room compatible.

Description	Order Code
1.8m lead	CW-60703
3.7m lead	CW-60704

STATIC SAFE ENVIRONMENTS

WRIST BANDS AND CORDS

Yellow Range Wrist Straps

High visibility wrist strap with an elasticated knitted fabric band incorporating modified nylon conductive fibres on the inner surface. Supplied with an extendible coiled lead.

Extendible leads incorporate a 1MΩ resistor in each press stud end.

Description	Order Code
4mm banana plug termination	WEE-2010-4-1-Y

Description	Order Code
10mm press stud termination	WEE-2010-10-1-Y

Adjustable Elasticated Wristband

Elasticated woven fabric with cam lock adjustment.

Description	Order Code
4mm Stud	CW-60062
10mm Stud	CW-60061
4mm Stud non-allergenic	CW-60063
10mm Stud non-allergenic	CW-60064

Budget Cords

Low cost cords with a choice of terminations for use with the wrist bands shown here.

Description	Order Code
Black cord with 4mm banana termination, 1.8m long	
4mm wrist strap socket	CW-60366
10mm wrist strap socket	CW-60365
Blue cord with 10mm socket termination, 2.4m long	
4mm wrist strap socket	CW-60364
10mm wrist strap socket	CW-60363

Relaxed Retraction Ground Cord

An alternative style with a lower retraction force than regular cords, useful when an operative has to carry out tasks producing long cord extension.

Description	Order Code
Black cord with 4mm banana termination, 3.6m long	
10mm wrist strap socket	CW-60316
Black cord with 10mm socket termination, 1.8m long	
10mm wrist strap socket	CW-60318

Disposable Wrist Strap

A 900mm vinyl strap with a conductive element, designed for single use during servicing, repair and upgrade operations. Ideal for sending out with sensitive PCBs for wear by the end user. Packaged individually with full instructions.

Order Code
CW-60084

Wrist Bands

Description	Order Code
Wrist Band	WE-A-Y

Leads

Description	Order Code
4mm plug	E-2010-4-1-Y
10mm stud	E-2010-10-1-Y

Lead Adaptors

Alligator clip lead adaptor with 10mm press stud and 4mm banana socket.

Description	Order Code
Aligator Clip	IAC-4BP-10

Bulldog clip adaptor with 10mm press stud.

Description	Order Code
Bulldog Clip	IBC-10PS

Adaptor for converting 10mm male stud to 4mm banana socket and stud combined.

Description	Order Code
Adaptor	ADP-4BP-10

Light Weight Leads

These leads have a 1800mm light weight extendible cord; for use with 10mm stud wrist straps or as an unobstrusive ground lead on mats

Description	Order Code
4mm banana plug termination	E-1810-4-1-L

Description	Order Code
10mm press stud termination	E-1810-10-1-L

Grounding Point with Parking Station

A twin grounding point with two combined 10mm studs and 4mm banana sockets.

The unit is fitted with a 3m ground lead with ring terminal.

Order Code
CW 60354

Parking Station for Wrist Strap

Tel: **01384 898599**
Fax: **01384 898577**

Email: **sse@static-safe.co.uk**
Web: **www.static-safe.co.uk** (download price list)

GROUNDING ACCESSORIES
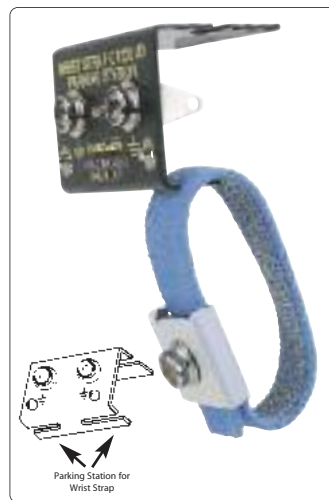
Earth Plugs

Provide a convenient earth connection point in standard 13A mains sockets. Each plug has one brass earth pin connected via a 1MΩ resistor, the other pins being insulative.

Description	Order Code
1 male press stud	EP-100-1

Description	Order Code
3 male press studs	EP-100-3

Description	Order Code
1 2BA terminal	EP-00T-1

Description	Order Code
2 2BA terminal	EP-00T-2

Description	Order Code
2 male press studs 1 4mm banana	EP-104-3

Description	Order Code
2 4mm banana sockets	EP-004-2

Earth Bonding Point Boxes

These boxes provide connection for wrist straps and the various elements of an EPA, allowing a single connection to earth and a centralised test point. Each model incorporates a 1MΩ series resistor bonded to the final earth terminal binding post.

Description	Order Code
2 Banana Sockets 3 10mm Press Studs	BX4-PS

Description	Order Code
2 Banana Sockets 4 Screw Terminals	BX4-T

Description	Order Code
5 10mm Press Studs	BX10-PS

Description	Order Code
L-Bracket Type	BLB-10-3

Description	Order Code
Flat Fixing Type	BFB-10-3

Description	Order Code
Top Fixing Type	BTB-10-3

Earth Bonding Panels and Plates

Bonding Panels have 3 10mm press studs, each with a 1MΩ series resistor and 2m ground lead.

Connection Point Plate

Moulded in conductive plastic with 4 10mm press studs, ideal for mounting under worktops.

Description	Order Code
Bonding Panel with 3 4mm banana sockets, 1MΩ resistor and 2m ground lead L-bracket type	BLB-4-3

Description	Order Code
Earth Bonding Plate with 10mm press stud and 2m connecting lead	EBB-10

Description	Order Code
Earth Facility Plate with 2 BA terminal and 2m connecting lead	EFB-T

Description	Order Code
Connection Point Plate	CRP-S

STATIC SAFE ENVIRONMENTS

AREA WARNING SIGNS

Area Warning Signs

Signs for use in and around electrostatic discharge protected areas, available in self adhesive flexible PVC or rigid foam board for screw fixing.
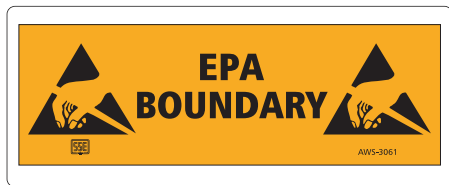
Description	Order Code
EPA Boundary	
300 x 100mm/Self Adhesive	AWS-3061
300 x 100mm/Rigid	AWS-3062
600 x 200mm/Self Adhesive	AWS-6061
600 x 200mm/Rigid	AWS-6062

Description	Order Code
Caution	
300 x 120mm/Self Adhesive	AWS-3011

Description	Order Code
ESD Protected Area	
150 x 75mm/Self Adhesive	AWS-1541
300 x 150mm/Self Adhesive	AWS-3041
600 x 300mm/Self Adhesive	AWS-6041

Description	Order Code
EPA Exit Sign	
300 x 100mm/Self Adhesive	AWS-3071
300 x 100mm/Rigid	AWS-3072
600 x 200mm/Self Adhesive	AWS-6071
600 x 200mm/Rigid	AWS-6072

Description	Order Code
EPA Exit Sign - Packaging Reminder	
300 x 150mm/Self Adhesive	AWS-3051
600 x 300mm/Self Adhesive	AWS-6051

Description	Order Code
Wear Your Wrist Strap	
150 x 75mm/Self Adhesive	AWS-1531
300 x 150mm/Self Adhesive	AWS-3031
600 x 300mm/Self Adhesive	AWS-6031

Floor Marking Tape

Self adhesive tape 50mm wide for marking the boundaries of an EPA. Suitable for application to most smooth floor coverings.

Description	Order Code
33m x 75mm	FTP-3307
66m x 50mm	FTP-6605
(not illustrated)	

Floor, Wall and Door Signs

300mm diameter, self adhesive signs with a non-slip surface.

Description	Order Code
ESD Protected Area	AWS-30-EPA
ATTENTION	AWS-30-ATT
EPA Exit	AWS-30-EXI

Tel: **01384 898599**
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EPA AND PACKAGING LABELS

EPA Earth Labels

Self adhesive vinyl labels, back printed on clear film for maximum durability, with a pre-punched hole for mounting behind press studs. Circular labels are 36mm diameter with a 12mm hole.

Rectangular labels are 18 x 30mm with a 5mm diameter hole.

Description	Order Code
Earth Bonding Point used for:- labelling the connection point for wrist straps on benches, mats and other equipment- on equipment housings to label the connection point for wrist straps or portable EPA's.	
36mm Circular	BPL-3636
18 x 30mm	BPL-1830
Earth Grounding Point used for:- labelling the the point on a work surface or other equipment from which a connection is made to the ESD earth facility.	
36mm Circular	GPL-3636
18 x 30mm	GPL-1830
ESD Earth Facility used for:- labelling a point on the ESD earth facility to which bonded elements of an EPA are connected.	
36mm Circular	EFL-3636
18 x 30mm	EFL-1830

Packaging Labels

A range of self-adhesive paper warning labels for bags, containers and other packaging to provide obvious identification of static sensitive devices and assemblies.

Supplied in rolls of 1000.

Label Size (mm)	Order Code
12 x 20	SWL-1220
19 x 39	SWL-1939
25 x 52	SWL-2552
36 x 76	SWL-3676

Packaging Tape

These tapes are printed with a standard warning and triangle symbol to advise that contents are static sensitive.

EPA Equipment Label

Used to identify ESD protective items and equipment approved for use within an EPA.

Supplied in rolls of 1000, printed on yellow gloss paper.

Description	Order Code
Standard Grade	
This tape is a PVC based product, only for use on secondary packaging outside an ESD protected area.	
66m x 50mm wide	PTS-6605
Anti-Static Grade	
This tape uses a special paper based material which is non-tribocharging and can be used on proximity packaging within an ESD protected area.	
66m x 50mm wide	PTA-6605

Label Size (mm)	Order Code
5 x 5	EPA-0505
12 x 12	EPA-1212
25 x 25	EPA-2525
50 x 50	EPA-5050

STATIC SAFE ENVIRONMENTS

FOOT GROUNDING STRAPS

● Foot Straps provide an economical means of personal grounding when used in conjunction with a suitable static dissipative flooring system, or grounded mats. NOTE: it is a requirement of current ESD standards that a foot strap is worn on both feet.

● All reusable straps incorporate 1MΩ resistors to ensure operator safety and are constructed from tear-resistant rubber, with 8-strand nylon/polyester conductive strips, for positioning inside the shoe.

Full Coverage Foot Strap

Provides continuous grounding during walking, avoiding the risk of body-voltage 'spikes'. Uses hook-and-loop fastening.

Description	Order Code
Full Cover Foot Strap	CW-70021

Standard Heel Strap

Non-marking dissipative inner with hook-and-loop fastening.

	Order Code
	CW-70004

Standard Toe Strap

Non-marking dissipative inner with hook-and-loop fastening and buckle adjustment for shoe size.

	Order Code
	CW-70008

Snap-Loc Foot Strap

Non-marking dissipative inner with snap-loc fastening and a one-piece rubber heel-cup.

	Order Code
	CW-70050

Snap-Loc Toe Strap

Non-marking dissipative inner snap-loc fastening and buckle adjustment for shoe size.

	Order Code
	CW-70031

Non-Marking Foot Strap

Non-marking three layer high visibility rubber cup with hook-and-loop fastening.

	Order Code
	CW-70007

Disposable Heel Strap

Single use heel strap for short term use in the EPA. Supplied in packs of 100.

	Order Code
	CW-70001

Disposable Heel Strap Dispenser

A wall mounted holder for siting at the entrance to an EPA.

	Order Code
	CW-70003

Disposable Overshoe

Used for temporary grounding in cleanroom conditions; ground contact is provided with a sewn-in conductive ribbon. Supplied in packs of 100.

	Order Code
	DOS-100

Tel: **01384 898599**
Fax: **01384 898577**

Email: **sse@static-safe.co.uk**
Web: **www.static-safe.co.uk** (download price list)

FOOTWEAR

ESD control shoes are the optimum choice for personal grounding through a floor, with effective contact in all parts of the sole/heel area, eliminating the risk of body-voltage spikes.

- **A range of high quality shoes designed for comfort and performance durability. All shoes have non-slip soles and meet relevant footwear and safety standards.**
- **Styles are offered with or without safety toe-caps.**
- **These shoes have been selected to comply with the requirements of BS 61340-5-1:2007 and meet the recommendations for primary grounding when used in conjunction with a suitable static dissipative floor. (Resistance to Ground – Rg of floor/footwear/person <3.5 x 107 Ω).**

Safety Shoes with Toe-Cap
Manufactured to EN 345

Euro Sizes	Order Code
Women 35-38	SV-SPORTER-S2
Men 39-47	

Euro Sizes	Order Code
Women 35-38	SV-MEGA-S2
Men 39-48	

Euro Sizes	Order Code
Women 35-38	SV-AUTO-S2
Men 39-48	

Euro Sizes	Order Code
Women 36-38	SV-RELAX-S1
Men 39-47	

Euro Sizes	Order Code
Women 35-38	SV-RIFF-SBAE
Men 39-47	

Euro Sizes	Order Code
Women 35-38	SV-ALFA-S2
Men 39-47	

Our shoes are manufactured in Finland and marked in European and UK sizes – please refer to the size-equivalent chart below.
For accuracy, we recommend that you request a size gauge, which we will send to you, free of charge. **Please order in European sizes**

Size Table

Continental Sizes	35	36	37	38	39	40	41	42	43	44	45	46	47
UK Sizes	2½	3	3½	4	5	6	7	8	9	10	11	12	13

STATIC SAFE ENVIRONMENTS

FOOTWEAR

Non-Safety Shoes
Manufactured to EN 347 or ISO EN 20347

Euro Sizes	Order Code
Men 39-47	SV-CABLE

Euro Sizes	Order Code
Men 39-47	SV-PRO

Euro Sizes	Order Code
Men 39-47	SV-KEY

Euro Sizes	Order Code
Women 35-38 Men 39-47	SV-DATA

Euro Sizes	Order Code
Women 35-42	SV-IDA

Euro Sizes	Order Code
Women 36-42	SV-PETRA

ESD Shoe Lockers
These lockers provide compact and secure storage of personal footwear, at the entrance to an EPA or in changing areas. Individual keys are issued to each person for access to their own compartment, with a maintenance key to open the complete locker. Multiple units can be bolted together.
Each unit has 10 lockable compartments.

Shoe Locker

Dimensions (mm)	Compartment Size (mm)	Order Code
1800 x 380w x 450d	160h x 300w (door) x 425d	ESL-1838-10

Side Bench with Hardwood Slatted Seat

Dimensions (mm)	Order Code
1500L x 450h x 300d	LSS-1503

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Web: **www.static-safe.co.uk** (download price list)

GARMENTS AND PERSONNEL ACCESSORIES

A range of fully launderable garments, manufactured from static-dissipative cloth incorporating conductive fibres.

Grid-Cloth Coats Medium-weight

These coats are recommended for tasks involving lifting and carrying operations (e.g. for stores operatives). The cloth for these garments is a 66% polyester, 33% cotton with a 1% carbon-fibre grid pattern.
Cloth weight: 245g/m².
Colours: White or Blue

Description + colour	Order Code
Women's white	WMW-size (10-28)
Women's blue	WMB-size (10-28)
Men's white	MMW-size (34-50)
Men's blue	MMB-size (34-50)

Grid-Cloth Coats Light-weight

These coats have a light weight fabric, recommended for seated assembly work. The cloth for these garments is a 99% polyester with a 1% carbon-fibre grid pattern.
Cloth weight: 180g/m².
Colours: White or Blue

Description + colour	Order Code
Women's white	WLW-size (10-28)
Women's blue	WLB-size (10-28)
Men's white	MLW-size (34-50)
Men's blue	MLB-size (34-50)

Polo Shirts

The cloth for these garments is a 99% polyester with a 1% carbon-fibre grid pattern.
Available in 4 sizes, with a minimum order quantity of 30 shirts.

Description + colour	Order Code
Black	POB-size
Navy	PON-size
Sizes: S=small 34-36"; M=medium 38-40";	
L=large 42-44"; XL=extra large 46-48"	

Grid-Cloth Jackets Medium-weight

These coats have a light weight fabric, recommended for seated assembly work. The cloth for these garments is a 66% polyester, 33% cotton with a 1% carbon-fibre grid pattern.
There is a minimum order quantity for this product of 20 Jackets.
Cloth weight: 245g/m².
Colours: White or Blue

Description + colour	Order Code
Men's white	JMW-size
Men's blue	JMB-size
Sizes: S=small 34-36"; M=medium 38-40";	
L=large 42-44"; XL=extra large 46-48"	

Embroidered Badges

Embroidered badges can be supplied, in minimum lots of 30, incorporating your company logo.
A program/setting-up fee applies.

GARMENTS AND GLOVES

Statshield® Smocks and Jackets

Two ranges of fully launderable working smocks and jackets designed for use in the EPA, manufactured from polyester cloth with a chain-link pattern conductive carbon fibre grid (12% content). These garments are very effective in containing the field from electrostatic charges generated on regular clothing. They are designed to be worn with skin contact at the cuff, maintaining a ground connection through wrist straps and ESD footwear.

Size	Chest Size	Sleeve Length	Order Code
STATSHIELD® Smocks			
Small	86-91cm	86cm	CW-72100
Medium	96-101cm	87cm	CW-72101
Large	106-112cm	89cm	CW-72102
Extra Large	117-122cm	90cm	CW-72103
Extra Extra Large	127-132cm	90cm	CW-72104
STATSHIELD® Jackets			
Small	86-91cm	86cm	CW-72110
Medium	96-101cm	87cm	CW-72111
Large	106-112cm	89cm	CW-72112
Extra Large	117-122cm	90cm	CW-72113
Extra Extra Large	127-132cm	90cm	CW-72114

Static Dissipative Gloves

Non-allergenic polyester construction with 4mm snap-stud and colour coded cuffs. Rg of $<1 \times 10^7 \Omega$.

Description	Order Code
Women's sizes	
Small	CW-72602
Medium	CW-72601
Large	CW-72600
Men's sizes	
Small	CW-72605
Medium	CW-72604
Large	CW-72603
Extra Large	CW-72606

Antistatic Vinyl Gloves

Manufactured from low-charging powder-free vinyl film.

Description	Order Code
Small	CW-72500
Medium	CW-72505
Large	CW-72510

Static Dissipative Finger Cots

Manufactured from powder-free natural latex with permanent dissipative properties.

Description	Order Code
Small	CW-72700
Medium	CW-72705
Large	CW-72710
Extra Large	CW-72715

Tel: **01384 898599**
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Email: **sse@static-safe.co.uk**
Web: **www.static-safe.co.uk** (download price list)

WASTE DISPOSAL

WEZ Waste Bin

Conductive Model
40 litre waste bin moulded from conductive polypropylene.
330 x 330 x 530mm high (235 x 235mm at the base)

Dissipative Model
40 litre waste bin moulded from static dissipative polypropylene.
330 x 330 x 530mm high (235 x 235mm at the base)

Small Waste Bin

14 litre waste bin moulded from conductive polypropylene.
265mm diameter x 320mm high

Order Code
WWB-0540

Order Code
WWD-0540

Order Code
WWB-0214

120 Litre Waste Bin with Lid

120 litre waste bin rotational moulded from conductive polypropylene.
455 x 455 x 650mm high internal
470 x 470 x 670mm high external

135 Litre Waste Bin

135 litre waste bin rotational moulded from conductive polypropylene.
610 x 400 x 550mm high internal
640 x 430 x 590mm high external

180 litre Wheeled Bin Litre

A large bin moulded from conductive polypropylene with lid and two conductive wheels.
550 x 700 x 1100mm high

Order Code
WRL-120

Description	Order Code
135 litre bin	WRB-135
Castor base version	WRB-135-C

Order Code
WRM-180

Conductive Fibreboard Waste Bins

Three sizes of light weight bins manufactured from conductive fibreboard with metal hoop rim, reinforced base corners and metal stud feet.

Refuse Bags

Manufactured from low charging polyethylene in three colours for waste segregation.

Description	Order Code
400 x 400 x 780mm high	WWF-0408
300 x 300 x 600mm high	WWF-0306
250 x 250 x 400mm high	WWF-0204

Description	Order Code
110 litre (990 x 460diam)	ABL-9946
50 litre (700 x 420diam)	ABL-7042
30 litre(700 x 280diam)	ABL-7028
(add –B, -R, -G to order code for colour required)	

Size	Use with	Colours available
110 litre	WWF-0408	Blue/Red/green
50 litre	WWF-0306	Blue/Red
	WWB-0540	
	WWD-0540	
30 litre	WWF-0204	Blue

STATIC SAFE ENVIRONMENTS

MAINTENANCE AND CLEANING

STATGUARD® Static Dissipative Neutral Floor Cleaner

A general purpose cleaner for ESD flooring systems, supplied in 10 litre containers. Dilute 1:10 for normal cleaning, giving an approximate coverage of 500 m² per litre of concentrate.
PH value: 7.0

	Order Code
	CW-71045

STATGUARD® Floor Stripper

A low residue floor stripper for the removal of Statguard Floor Finish and other polymer type coatings. Supplied in 10 litre containers, normally diluted 1:3 with hot water.
Coverage: 10 m² per litre of concentrate.
PH value: 10.0

	Order Code
	CW-71047

STATGUARD® Static Dissipative Floor Finish

A static dissipative floor finish for application to most smooth, hard and sealed floors, supplied in 10 litre containers. Applied undiluted at a rate of 45-50 m² per litre per coat; a minimum of two coats are required.
PH value: 8.8

	Order Code
	CW-71046

REZTORE® ESD Mat Cleaner

A silicone free cleaner and restorer for ESD mats that leaves no insulative residue.
Available as wipes or spray bottles.

Description	Order Code
Carton of 12 x 500ml spray	CW-71019
1 litre spray container	CW-71021
Carton of 12 x 1 litre spray	CW-71025
10 litre refill	CW-71028
Static wipes	
Dispensers of 160 wipes	CW-71050
12 packs of 60 wipes	CW-71051

Reztore™ ESD Hand Lotion

A special formulation for the electronic manufacturing environment, used to improve wrist band/skin contact.
This product has the added benefit of reducing contamination to PCBs that could cause solderability problems.
The lotion has a mild peach scent, contains vitamins A,D and E and is enriched with Aloe Vera.

Description	Order Code
235ml bottle	CW-70950
1 litre bottle	CW-70951
3.8 litre bottle with pump	CW-70952

REZTORE® Topical Antistat

Antistatic, low tribocharging, static dissipative treatment for hard surfaces.

Description	Order Code
1 litre spray	CW-71029
1 litre spray x 12	CW-71030
10 litre refill	CW-71033

STATGUARD® Conductive Acrylic Latex Paint

An acrylic based paint suitable for applying to wall, floors and wooden surfaces. Coverage 7-10 m² per litre (one coat). Colours: mid-grey and light grey

Description	Order Code
3.8 litre drum mid-grey	CW-71016
19 litre drum mid-grey	CW-71017
19 litre drum light grey	CW-71013

STATGUARD® Carpet Protector

A water based treatment for carpets and fabrics, used to reduce charging.

Description	Order Code
1 litre spray	CW-70995
3.8 litre concentrate	CW-70996

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DOCUMENT HOLDERS

Document Holder

A clear, unpunched antistatic holder, open on the top and right for issuing individual documents in the EPA.
Printed with the ESD protection logo.
Supplied in packs of 100.

	Order Code
Per 100	ADH-A4

Document Wallets

Multi-punched, clear antistatic document wallets in three sizes.
Printed with the ESD protection logo.
Supplied in packs of 100.

Description	Order Code
A5 size	ADW-A5
A4 size	ADW-A4

Ring Binders

A4 ring binders with a blue static dissipative covering and a standard warning symbol, suitable for use within an ESD protected area.

Description	Order Code
2 Ring - 25mm	PRB-0225
4 Ring - 25mm	PRB-0425
4 Ring - 50mm	PRB-0450

Clipboards

A4 clipboards with a static dissipative covering and a standard warning symbol, suitable for use within an ESD protected area.

Description	Order Code
A4 size	CLB-A4

Document Trays

Stacking document trays, manufactured from black conductive material.

Description	Order Code
370 x 270 x 57 external	
340 x 245 x 54 internal	
Black Conductive	DLT-3727

Badge Holders

Designed to hold CR80 cards (credit card size), manufactured from 0.25mm static dissipative PVC in portrait or landscape format.
Supplied in packs of 10.

Description	Order Code
Portrait	ABH-P
Lapel clip	ABH-CLIP

STATIC SAFE ENVIRONMENTS

TRAINING AND ESD AWARENESS

Electrostatic Charge Gun

Provides a useful training aid for demonstrating the principles of charging and charge neutralisation. A high ionising potential is produced when the trigger is pulled, changing polarity when the trigger is released.

ESD Training Paddles

Used to demonstrate charging by induction, insulators and conductors, charge retention on insulators and charge transfer. One paddle has an isolated aluminium pad and the other paddle an insulative acrylic pad.
Contact surface: 102 x 76mm
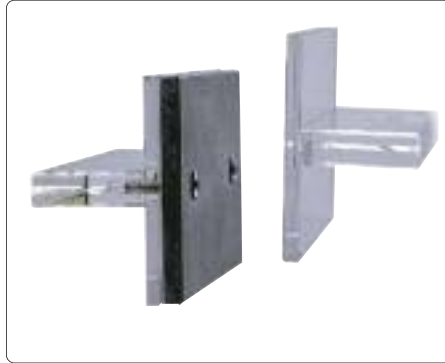
ESD Training CD

This CD, produced by a leading European semiconductor device manufacturer, provides a useful introduction to the problems of ESD in electronic manufacturing. The contents cover electrostatic charge and discharge, typical protection measures and an overview of suitable equipment and materials for ESD protection.

Order Code
ZER-01

Order Code
CW-91420

Order Code
ESD-TCD

ESD Awareness Guide

This illustrated booklet sets out the basic requirements for effective ESD protection and will form a useful addition to any training program.

Order Code
CW-91440

ESD Awareness Posters

A set of 4 laminated posters in A4 format, useful as a reminder to staff of key ESD issues.
- Personal Grounding
- Correct Packaging
- Risk from Insulative Objects
- General Procedures

ESD Protection Standards

BS EN 61340-5-1:2007
Protection of electronic devices from electrostatic phenomena – general requirements.

Order Code
BSD-0501

User Guide to BS EN 61340-5-1:2007
(IEC/TR 61340-5-2:2008)

Order Code
BSD-0502

	Order Code
A4 Set	EAP-A4

Tel: **01384 898599**
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MENDA PRODUCTION AIDS

Wooden and Nylon Probe Tools

Wood or nylon probes that do not mark delicate surfaces. Heat resistant, with low charging properties. Nylon can be treated with REZTORE™ Topical Antistat to create a dissipative surface.
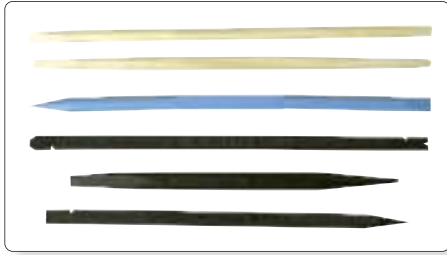
Description	Order Code
Hard birchwood orange stick 180mm	CW-35616
Hard birchwood spudger, 180mm	CW-35517
Nylon lead forming tool, 180mm	CW-35618
Nylon orange stick, 180mm	CW-35619
Nylon heavy duty spudger, 140mm	CW-35621
Nylon soldering tool, 150mm	CW-35622

Stainless Steel Probe Tools

These probes are manufactured from 300 grade stainless steel, which is non magnetic. Ergonomic hexagonal handles provided a firm, anti-rotation grip.

Description	Order Code
Curved 140mm	
Hooked 140mm	
Angled 140mm	
Straight 140mm	
Kit of 4 stainless steel probe tools in a pouch	CW-35630

Conductive Brushes

These brushes have conductive handles and bristles.

Dissipative Wash Bottle

Manufactured from permanently dissipative HDPE E9™ Durastatic material for dispensing cleaning fluids, solvents and oils as droplets or a continuous fine stream.
Size: 236ml.

Description	Order Code
Wash Bottle	CW-35359

Yellow Dissipative Fingertip Pumps

Manufactured from permanently dissipative HDPE E9™ Durastatic material in 3 sizes. Solvent remains pure, uncontaminated by migratory additives. The Pure-Touch versions prevent contaminated fluid running back into the bottle. Lock and seal models can be transported without spillage.
Size: 177ml   Rg $<10^{10}\Omega$

Description	Order Code
One-Touch	CW-35354
One-Touch with lock and seal cap	CW-35720
Pure-Touch	CW-35540
Pure-Touch with lock and seal cap	CW-35815

Amber Glass with Stainless Steel Pump

Manufactured from amber glass for fluids that are not compatible with plastics or are light sensitive. Pure-Touch pump design prevents return of pumped solvents to the bottle.
Rg $<10^{10}\Omega$

Description	Order Code
115ml One-Touch	CW-35315
115ml Pure-Touch	CW-35112

Steel Can and Stainless Steel Pump

Manufactured from steel/stainless steel for durability and for fluids not comparible with plastics.
Fitted with a One-Touch pump
Size: 115ml

Description	Order Code
115ml	CW-35335

Description	Bristle	Order Code
Round 6.5mm	Firm	CW-35690
30mm long handle	Firm	CW-35691
50mm long handle	Firm	CW-35692
60mm flat	Firm	CW-35693
12mm flat	Semi-fine	CW-35694
Curved handle	Firm	CW-35695

Menda Technical Data – available from the Charleswater website – please refer to page 135 for details.

STATIC SAFE ENVIRONMENTS

WEZ CONDUCTIVE CONTAINERS AND ACCESSORIES

300 x 200mm Containers

44 88 133

400 x 300mm Containers

44 133

88 200

266 320

600 x 400mm Containers

44 88

133 200

266 320

400

● Conductive polypropylene injection moulded containers from the WEZ range, together with a comprehensive selection of accessories for the safe storage, handling and transportation of static sensitive PCBs and other assemblies.

Standard Ribbed Base Containers

Will interstack with larger, smaller and same size containers

External Stacked (mm)	Overall Ht. (mm)	Internal** (mm)	Order Code
300 x 200 x 44	53	260 x 160 x 41	PCC-3204
300 x 200 x 88	100	260 x 160 x 85	PCC-3208
300 x 200 x 133	145	260 x 160 x 130	PCC-3213
400 x 300 x 44	54	360 x 260 x 41	PCC-4304
400 x 300 x 88	100	360 x 260 x 85	PCC-4308
400 x 300 x 133	145	360 x 260 x 130	PCC-4313
400 x 300 x 200	212	360 x 260 x 197	PCC-4320
400 x 300 x 266	278	360 x 260 x 262	PCC-4326
400 x 300 x 320	332	360 x 260 x 316	PCC-4332
600 x 400 x 44	66	560 x 360 x 41	PCC-6404
600 x 400 x 88	100	560 x 360 x 85	PCC-6408
600 x 400 x 133	145	560 x 360 x 129	PCC-6413
600 x 400 x 200	212	560 x 360 x 196	PCC-6420
600 x 400 x 266	278	560 x 360 x 262	PCC-6426
600 x 400 x 320	332	560 x 360 x 316	PCC-6432
600 x 400 x 400	412	560 x 360 x 396	PCC-6440

Flat Base Containers

Will stack onto larger or same size containers; suitable for roller conveyors

External Stacked (mm)	Overall Ht. (mm)	Internal** (mm)	Order Code
200 x 150 x 133	145	155 x 106 x 142	PCC-2113-F
300 x 200 x 88	100	254 x 154 x 96	PCC-3208-F
300 x 200 x 133	145	254 x 154 x 141	PCC-3213-F
400 x 300 x 44	53	354 x 254 x 49	PCC-4304-F
400 x 300 x 88	100	354 x 254 x 96	PCC-4308-F
400 x 300 x 133	145	354 x 254 x 141	PCC-4313-F
400 x 300 x 200	212	354 x 254 x 208	PCC-4320-F
400 x 300 x 266	278	354 x 254 x 274	PCC-4326-F
400 x 300 x 320	332	360 x 260 x 328	PCC-4332-F
600 x 400 x 88	100	554 x 354 x 96	PCC-6408-F
600 x 400 x 133	145	554 x 354 x 141	PCC-6413-F
600 x 400 x 200	212	554 x 354 x 208	PCC-6420-F
600 x 400 x 266	278	554 x 354 x 273	PCC-6426-F
600 x 400 x 320	332	560 x 360 x 327	PCC-6432-F
600 x 400 x 400	412	554 x 354 x 407	PCC-6440-F

** The internal height is reduced by 12mm when boxes are stacked without lids.

STATIC SAFE ENVIRONMENTS

WEZ CONDUCTIVE CONTAINERS AND ACCESSORIES

Handle

Carrying handle for fitting to containers; 2-10mm holes are required at 100mm centres.

Dims. (mm)	Order Code
Drop Handles - Loose	PCC-HAN
Drop Handles - Fitted	PCC-HAN-F
Snap Handle *	PCC-HAN-S

*Not illustrated

Fixing Accessories

Description	Order Code
Nylon Latch for the temporary fitting of extension frames etc.	
Nylon Latch	NYLATCH
Spring Steel Clip for retaining frames and other accessories.	
UK Clips	UK-CLIP

Lids

Lids are available in three types, hinged with two swing latches, with four swing latches or loose.

Dims. (mm)	Order Code
300 x 200mm	
Hinged with swing latches	LCH-3020
Swing Latches	LCS-3020
Loose	LCL-3020
400 x 300mm	
Hinged with swing latches	LCH-4030
Swing Latches	LCS-4030
Loose	LCL-4030
Hinged with document holder A4 size. Ideal for operating manuals etc.	
	LCH-4030-D
600 x 400mm	
Hinged with swing latches	LCH-6040
Swing Latches	LCS-6040
Loose	LCL-6040

Extension Frames

For fitting to 400 x 300mm and 600 x 400mm containers to increase the depth in multiples of 44mm.

Dims. (mm)	Order Code
400 x 300mm	
Loose	EXF-4030
Nylatches	EXF-4030-N
UK Clips	EXF-4030-U
600 x 400mm	
Loose	EXF-6040
Nylatches	EXF-6040-N
UK Clips	EXF-6040-U
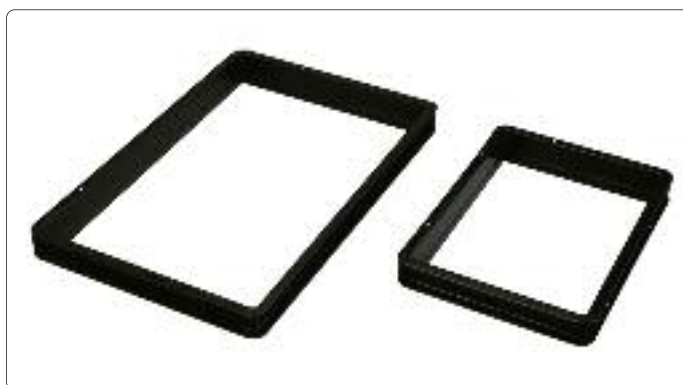
Wez Labelling System

Description	Order Code
Document Clips	
Rivetted type - loose	DOC-RIV
Rivetted type - fitted	DOC-RIV-F
Snap on type	DOC-CLIP

Description	Order Code
Document Pocket Height 90mm. For document widths up to 210mm. Supplied with UK fixing clips. Available in conductive (black) or transparent	
Conductive 210 x 90	WDP-013
Transparent 210 x 90	WDP-046

Description	Order Code
Self Adhesive Document Pocket Height 44mm for document widths up to 210mm. Available in conductive (black) or transparent.	
Conductive 210 x 44	WDP-085
Transparent 210 x 44	WDP-086

Description	Order Code
Flexible Document Pouch Available in two sizes - transparent	
Self Adhesive 83 x 115	WDP-050
Self Adhesive 115 x 156	WDP-039

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WEZ CARRYING CASES AND CONTAINER TROLLEYS

Carrying Cases

Assembled carrying cases with hinged lid and handle, using flat based containers.

External (mm)	Internal (mm)	Order Code
300 x 200 x 63	260 x 160 x 39	WCC-3204
300 x 200 x 110	254 x 154 x 95	WCC-3208
300 x 200 x 154	254 x 154 x 139	WCC-3213
400 x 300 x 63	354 x 254 x 48	WCC-4304
400 x 300 x 110	354 x 254 x 95	WCC-4308
400 x 300 x 154	354 x 254 x 139	WCC-4313
400 x 300 x 221	354 x 254 x 206	WCC-4320
400 x 300 x 287	354 x 254 x 272	WCC-4326
600 x 400 x 111	554 x 354 x 95	WCC-6408
600 x 400 x 155	554 x 354 x 139	WCC-6413
600 x 400 x 221	554 x 354 x 206	WCC-6420
600 x 400 x 288	554 x 354 x 272	WCC-6426

Lids can be printed with your company name or logo.
Please ask for a quotation.

Plated Steel Container Trolley

Designed to accommodate standard WEZ containers 600 x 400mm and 400 x 300mm, of plated steel construction with 2 conductive castors and 2 braked standard castors.
Rails are adjustable on 25mm centres.
Trolley size: 1500h x 500w x 600d (mm)

Anodised Aluminium Container Trolley

Designed to accommodate standard WEZ containers 600 x 400mm and 400 x 300mm, constructed from anodised aluminium extrusions with 2 conductive castors and 2 braked standard castors.
Rails are adjustable on 50mm centres
Trolley size: 1400 or 1700h x 470w x 650d mm

Description	Order Code
Levels/Centres (mm)	
1400 High	
12 @ 100	ACT-14-100
8 @ 150	ACT-14-150
6 @ 200	ACT-14-200
4 @ 300	ACT-14-300
1700 High (mm)	
16 @ 100	ACT-17-100
10 @ 150	ACT-17-150
8 @ 200	ACT-17-200
5 @ 300	ACT-17-300

Description	Order Code
Levels/Centres (mm)	
12 @ 100	SCT-05-100
8 @ 150	SCT-05-150
6 @ 200	SCT-05-200
4 @ 300	SCT-05-300

STATIC SAFE ENVIRONMENTS

WEZ CARRYING CASES AND CONTAINER TROLLEYS

WEZ CONDUCTIVE CONTAINERS AND ACCESSORIES

Container Sub-Division

Insert Boxes for use with 400 x 300mm containers, these trays can also be used independently and will inter-stack.

Push-on Lid Boxes These boxes can be sub-divided into two to four compartments and 10 will fill a 600 x 400mm container.

Insert Boxes for 600 x 400mm containers, these trays can also be used independently and will inter-stack.

External Dims. (mm)	Order Code
Conductive Black:	
64 x 89 x 55	IBV-0609
128 x 89 x 55	IBV-1309
128 x 178 x 55	IBV-1318
Plain Labels for the above trays. Packs of 100.	
55 x 9.5	IBV-LAB

External Dims. (mm)	Order Code
Box - 179 x 112 x 55	WPB-1711
Push-on Lid	WPB-1711-L
Divider	WPB-1711-D

External Dims. (mm)	Order Code
137 x 87x 110	IBV-1308
174 x 137 x 110	IBV-1713
274 x 174 x 110	IBV-2717
350 x 274 x 110	IBV-3527
550 x 87 x 110	IBV-5508
550 x 174 x 110	IBV-5517

PCB Holders

Injection moulded from conductive polypropylene, these panels have a grid of slots to support small PCBs in production and storage.
Designed to fit into the base of standard WEZ containers, these holders can also be used as free standing racks.

External Dims. (mm)	Order Code
Conductive	
257 x 357 x 14	PCH-2535
357 x 557 x 22	PCH-3555

WEZ Printorama System

A comprehensive system of frames and adjustable dividers from the WEZ range, injection moulded from conductive polypropylene, to provide PCB location facilities in standard 600 x 400 and 400 x 300mm containers. Please ask for a full list of options available.

PLEASE CALL FOR A QUOTATION ON THIS PRODUCT

Printorama Secondo - fits into the base of WEZ containers.

Printorama Frame - fits onto the top of WEZ containers.

Full WEZ Catalogue available on request

Tel: **01384 898599**
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Email: **sse@static-safe.co.uk**
Web: **www.static-safe.co.uk** **(download price list)**

WEZ-RACK ADJUSTABLE PCB HOLDERS

WEZ-Rack

A system of slotted walls, injection moulded from conductive polypropylene, which clamp to aluminium rails to provide PCB location facilities in standard 600 x 400mm and 400 x 300mm containers or for use as free standing racks.

Dims. (mm)	Order Code
SINGLE DEPTH RACK WALLS	
Slotted Wall - No Backstop	
255 x 180 x 22	WRW-300S
355 x 180 x 22	WRW-400S
555 x 180 x 22	WRW-600S
Slotted Wall - 2.5mm Backstop	
255 x 180 x 22	WRW-322S
355 x 180 x 22	WRW-422S
Slotted Wall - 4mm Backstop	
555 x 180 x 25	WRW-625S
Slotted Wall - 7.5mm Backstop	
355 x 180 x 32	WRW-432S

Dims. (mm)	Order Code
DOUBLE DEPTH RACK WALLS	
Slotted Wall - No Backstop	
255 x 345 x 22	WRW-300D
355 x 345 x 22	WRW-400D
555 x 345 x 22	WRW-600D
Slotted Wall - 2.5mm Backstop	
255 x 345 x 22	WRW-322D
355 x 345 x 22	WRW-422D
Slotted Wall - 4mm Backstop	
555 x 345 x 25	WRW-625D
Slotted Wall - 7.5mm Backstop	
355 x 345 x 32	WRW-432D
Aluminium Rail	
Rails can be cut to length to customers requirements.	
256	WRR-0256
356	WRR-0356
556	WRR-05565
3450	WRR-3450

	Order Code
Flexible Handle	
Handle	WR-HAN

	Order Code
Rail Handle Locks into aluminium rails.	
Handle	WRR-HAN

	Order Code
Labelling Cards	
Pack of 20	WR-LAB

	Order Code
Blanking Clips To close off individual slots.	
Pack of 10	WR-CLIP

WEZ-RACK Wall Types:

No Backstop. Available in all sizes.

2.5mm Backstop. Available with 255 and 355mm walls only.

4mm Backstop. Available with 555mm walls only.

7.5mm Backstop. Available with 355mm walls only.

STATIC SAFE ENVIRONMENTS

WEZ ADJUSTABLE PCB HOLDERS AND FOAM INSERTS

WEZ-Rack 100

A sturdy system comprising non-flexing single sided partitions 100mm in depth, designed for use in WEZ containers to provide fast and easy settings for PCB storage.
Ideal for small and narrow PCBs.

Dims. (mm)	Order Code
Single Rack Adjustable Walls with Backstop	
Slot Pitch: 10mm Slot Width: 3.5mm	
Slot Depth: 2.5mm.	
255 x 100 x 22 (20 slots)	WRW-1300
355 x 100 x 22 (30 slots)	WRW-1400
Aluminium Rails Rails can be cut to	
customer requirements.	
156	WRR-1156
256	WRR-1256
356	WRR-1356
556	WRR-1556
Slot Clip For closing off slots.	
	WRC-100

300 x 200 container with 255mm walls

400 x 300 container with 355mm walls

400 x 300 container with 255mm walls

600 x 400 container with 355mm walls

Foam Inserts

Dims. (mm)	Order Code
Pink antistatic foam	
255 x 355 x 30	PFI-2535
355 x 555 x 30	PFI-3555
Low density conductive soft foam	
260 x 160 x 6	CFI-2616-6
360 x 260 x 6	CFI-3626-6
560 x 360 x 6	CFI-5636-6
260 x 160 x 15	CFI-2616-15
360 x 260 x 15	CFI-3626-15
560 x 360 x 15	CFI-5636-15

Machined Foam Inserts

Where a high level of mechanical protection is required for expensive, complex assemblies, conductive machined foam provides an excellent solution. The material is a conductive EVA foam, in a range of densities. A modest charge for programming is made and, to save costs, prototypes are normally machined from non-conductive foam for dimensional checking. WEZ containers and lids provide an effective outer case for transport and storage.
For details of the range of WEZ conductive containers refer to page 66.

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WEZ CONTAINER DIVIDERS

Injection Moulded Divider Strips

Manufactured from conductive polypropylene in five sizes to suit WEZ containers.

Dim (mm)	Slot Pitch	Order Code
Interlocking Divider Strips Conductive black		
258 x 100	32	WDI-2610
358 x 100	32	WDI-3610
558 x 100	37	WDI-5610
358 x 200	68	WDI-3620
558 x 200	76	WDI-5620

Manufactured from conductive polypropylene for cutting to any required size.

Dim (mm)	Slot Pitch	Order Code
Custom Divider Strips Conductive black		
1100 x 45	14	WCD-1145
1100 x 88	14	WCD-1188

For additional container dividers and inserts refer to page 94.

Corriplast Container Dividers
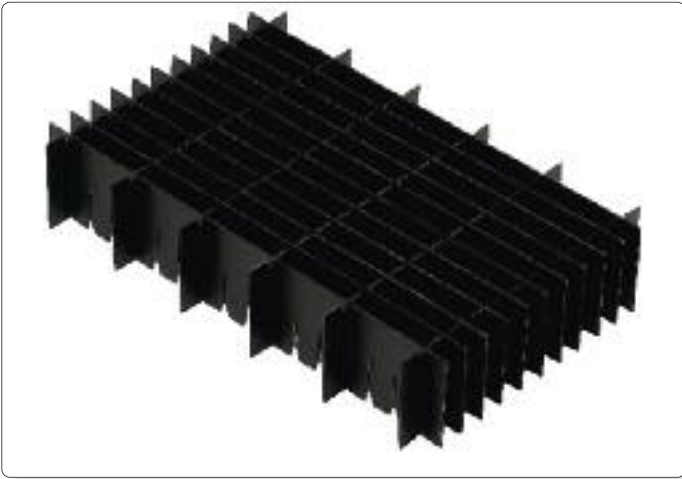
A standard interlocking divider system, manufactured from conductive Corriplast, providing an economical solution for the sub-division of WEZ containers. (See page 66)

Use as follows:-
255mm long in 300mm container size
355mm long in 400mm container size
554mm long in 600mm container size

Dims.(mm)	Description	Order Code
78x255x3	7 slots at 30mm spacing	COR-SP-2078
78x355x3	11 slots at 27mm spacing	COR-SP-3078
78x554x3	16 slots at 30mm spacing	COR-SP-5078
168x255x3	7 slots at 30mm spacing	COR-SP-2168
168x355x3	11 slots at 27mm spacing	COR-SP-3168
168x554x3	16 slots at 30mm spacing	COR-SP-5168

STATIC SAFE ENVIRONMENTS

CONDUCTIVE FIBREBOARD CONTAINERS
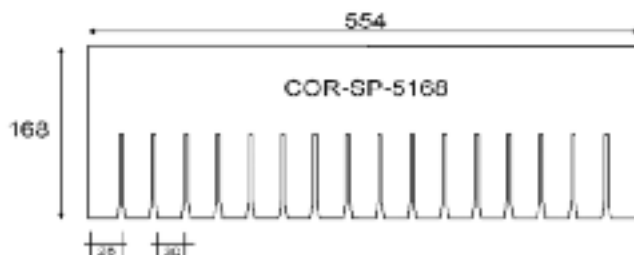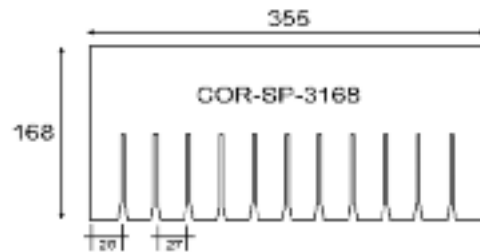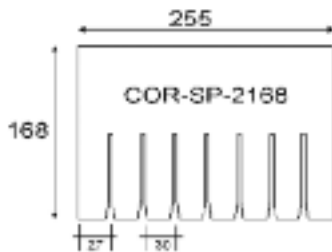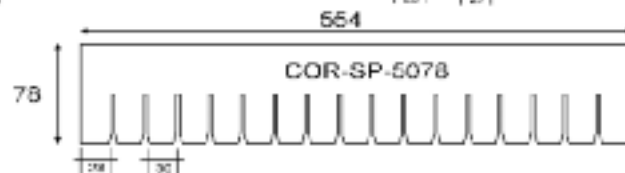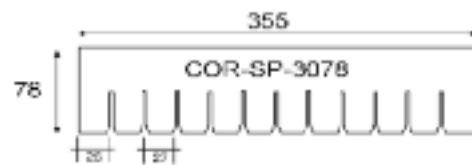
- Conductive fibreboard containers are manufactured to customers' requirements.
- These can be fitted with hardwood stacking runners, fixed or removable dividers, handles and card clips or holder.

Basic Containers

Dims. (mm)	Order Code
Container Supplied with a wired rim, cut out handles and timber stacking runners.	
400 x 300 x 150	CFC-4315
400 x 300 x 200	CFC-4320
400 x 300 x 250	CFC-4325
600 x 400 x 200	CFC-6420
600 x 400 x 250	CFC-6425
600 x 400 x 300	CFC-6430
Drop-on Lid	
400 x 300	CFL-4030
600 x 400	CFL-6040
Hinged Lid with Catches	
400 x 300	CFH-4030
600 x 400	CFH-6040
Accessories	
Plated Drop Handles (Pair)	-PDH
Cardholder (100 x 50mm card)	-CH
Lockable Catches (Pair)	-LC
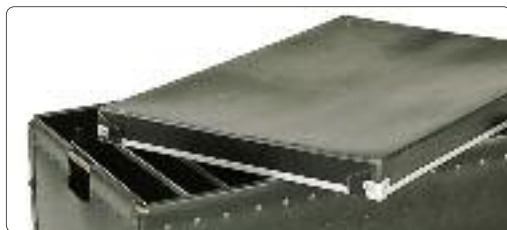
Container Inserts

Dims. (mm)	Order Code
Drop-in Divider Set	
A drop-in fibreboard divider set, made to suit basic containers or to suit specific requirements.	
To suit basic container, with dividers on 40mm nominal centres across the width, as follows:	
To fit 400x300 container	
125	PHA-4312
175	PHA-4317
200	PHA-4320
250	PHA-4325
To fit 600x400 container	
125	PHA-6412
175	PHA-6417
200	PHA-6420
250	PHA-6425

Dims. (mm)	Order Code
Rivetted-in Divider Set	
Similar to Drop in Divider Set inserts but rivetted into the box during manufacture.	
To fit 400x300 container	
125	PHC-4312
175	PHC-4317
200	PHC-4320
250	PHC-4325
To fit 600x400 container	
125	PHC-6412
175	PHC-6417
200	PHC-6420
250	PHC-6425

Transit Cases

These cases are fitted with reinforced corners, a metal beaded rim, drop handle and lockable catches. Ideal for carrying field service spares, instrument kits etc. They can be fitted with machined foam inserts or divider sets to suit specific applications.

PLEASE CALL FOR A QUOTATION ON THIS PRODUCT

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CORSTAT COLLAPSIBLE TOTES

CORSTAT COLLAPSIBLE TOTES

These boxes are manufactured from conductive Corriplast, providing an economical solution for the storage and transit of ESD-sensitive PCB and components.

Boxes are delivered flat, for quick assembly when required, with a unique snap-fastening system.

Available in a range of standard sizes, with drop-on lids.

Standard interlocking dividers form part of the system to provide flexible sub-division into compartments.

Stacking Boxes		
Ext. dims.(mm)	Int. dims (mm)	Order Code
400x300x110	372x276x111	COR-6000-431
400x300x220	372x276x211	COR-6000-432
400x300x300	372x276x291	COR-6000-433
600x400x110	578x378x102	COR-6000-641
600x400x220	578x378x212	COR-6000-642
600x400x300	578x378x283	COR-6000-643
Lids		
Ext. dims.(mm)		Order Code
400x300x50		COR-6000-43
600x400x50		COR-6000-64
Dividers		
Dims.(mm)	Description	Order Code
111x272x3	8 slots at 27mm spacing	COR-CCD-2111
111x372x3	11 slots at 28mm spacing	COR-CCD-3111
111x572x3	16 slots at 31mm spacing	COR-CCD-5111
211x272x3	8 slots at 27mm spacing	COR-CCD-2211
211x372x3	11 slots at 28mm spacing	COR-CCD-3211
211x572x3	16 slots at 31mm spacing	COR-CCD-5211

STATIC SAFE ENVIRONMENTS

CORSTAT STACKING BOXES
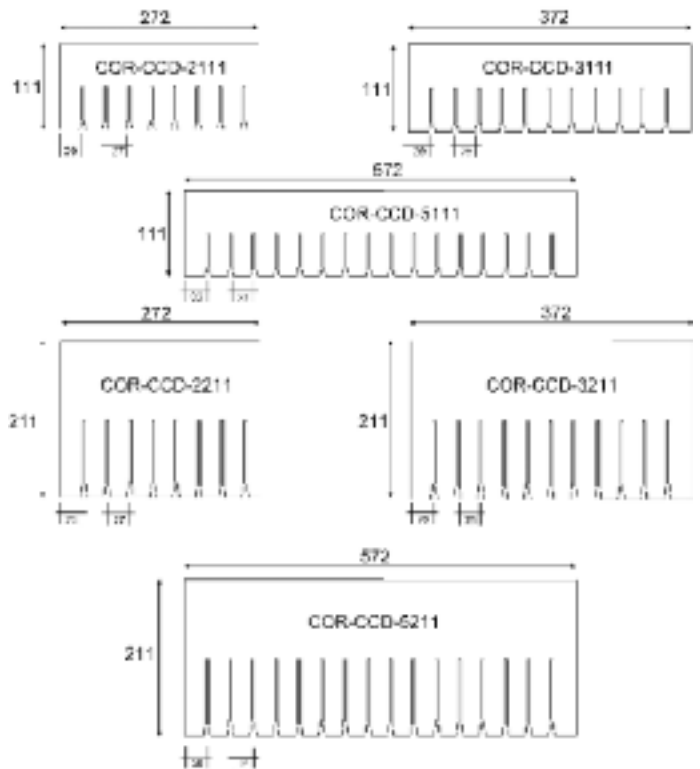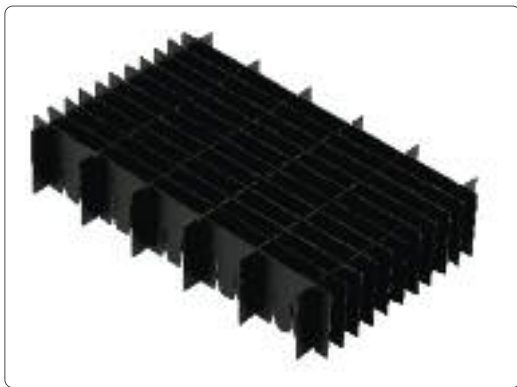
CORSTAT STACKING BOXES

These boxes are manufactured from carbon coated corrugated board, providing an economical solution for storing and transit of ESD-sensitive PCB and components.

Available in a range of standard sizes, with drop-on lids and reinforced stacking lugs.

Standard interlocking dividers form part of the system to provide flexible sub-division into compartments.

Stacking Boxes		
Ext. dims.(mm)	Int. dims (mm)	Order Code
400x300x120	372x272x111	COR-5000-431
400x300x220	372x272x211	COR-5000-432
400x300x320	372x272x291	COR-5000-433
600x400x58	572x384x55	COR-5000-640
600x400x120	572x372x111	COR-5000-641
600x400x220	572x372x211	COR-5000-642
600x400x320	572x372x291	COR-5000-643
Lids		
Ext. dims.(mm)		Order Code
400x300x50		COR-5000-43
600x400x50		COR-5000-64
Dividers		
Dims.(mm)	Description	Order Code
111x272x3	8 slots at 27mm spacing	COR-CT-2111
111x372x3	11 slots at 28mm spacing	COR-CT-3111
111x572x3	16 slots at 31mm spacing	COR-CT-5111
211x272x3	8 slots at 27mm spacing	COR-CT-2211
211x372x3	11 slots at 28mm spacing	COR-CT-3211
211x572x3	16 slots at 31mm spacing	COR-CT-5211
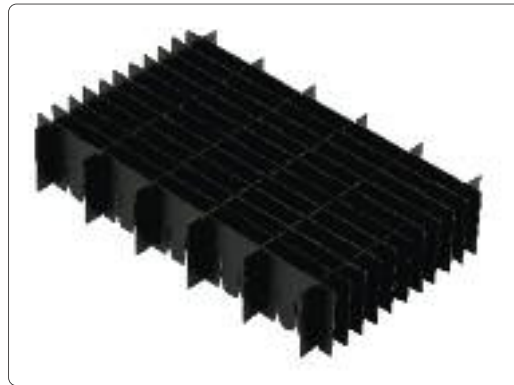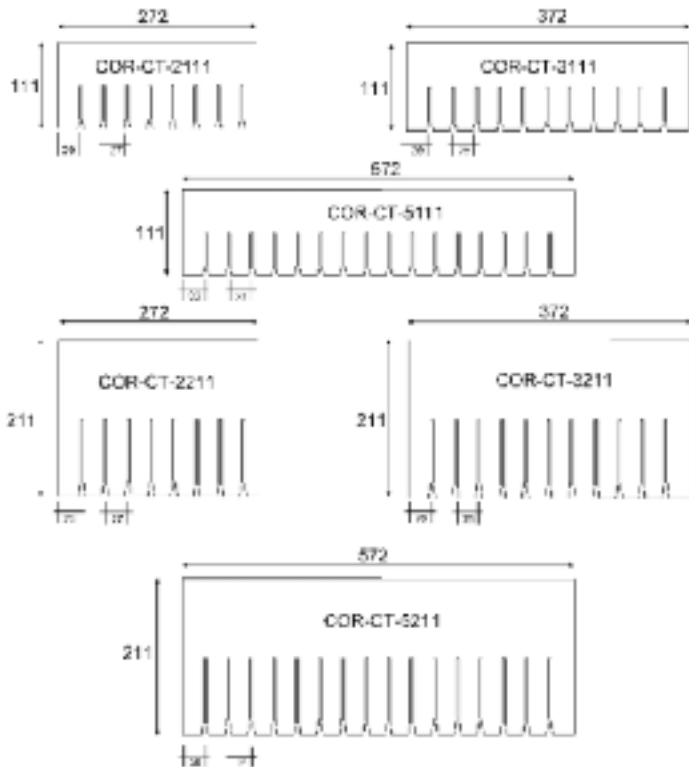
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PCB RACKS AND FLAT TRAYS

SCB-25 PCB Rack

SCB-25

This rack is moulded from conductive polypropylene with 48 PCB locations on 8mm pitch.

Overall dimensions (mm):	406 x 275 x 150 high
Internal dimensions(mm):	250 base depth x 125 high
Groove dimensions (mm):	2.8 wide x 4 deep

SCB-25 Dividers

Clip into location slots to accommodate PCBs that cannot be supported in the grooves. Supplied in packs of 10.

Description	Order Code
1406 x 275 x 150mm high	SCB-25
Divider for SCB-25 (per 10)	SCB-25-DIV

For Louvred Panel Systems see pages 112-115.

SCO PCB Racks

This rack, injection moulded from conductive polypropylene, is designed for use freestanding on a bench, providing 25 PCB locations at 10mm pitch

SCO-17

Overall dimensions (mm):	272 x 208 x 93 high
Internal dimensions (mm):	165 base depth x 83 high
Maximum PCB thickness (mm):	2.4

SCO-30

Overall dimensions (mm):	268 x 355 x 128 high
Internal dimensions (mm):	304 base depth x 114 high
Maximum PCB thickness (mm):	3.2

Dims. (mm)	Order Code
272 x 208 x 93	SCO-17
268 x 355 x 128	SCO-30

Flat Trays

Conductive polypropylene trays for PCB and component storage.

Ext Dims. (mm)	Flat Area Int. Dims. (mm)	Order Code
325 x 177 x 25	252 x 135 x 22	CFT-3217
350 x 240 x 55	298 x 222 x 45	CFT-3524

Use of this item in PCB trolleys (see page 108)

STATIC SAFE ENVIRONMENTS

ADJUSTABLE PCB RACKS AND PICKING BINS

- These racks have injection moulded grooved panels, manufactured from conductive polypropylene, clamped onto aluminium rails, allowing adjustment for PCB width.
- Supplied as individual components for assembly to meet specific requirements.
- Both sizes can be stacked together on rail and panel faces; an adaptor hook is available for use with louvred panels.

Adjustable PCB Rack

Small Adjustable Rack The single faced panels have a removable back stop and can be clipped together to form deeper racks.
Assembly requires 2 aluminium rails.
Panel dimensions: 300 x 170mm
PCB Slots: 46 at 6mm pitch
Max. PCB thickness: 3.5mm

Large Adjustable Rack All panels have a fixed back stop.
Assembly requires 4 aluminium rails
Panel dimensions: 480 x 290mm
PCB Slots: 81 at 5mm pitch
Max. PCB thickness: 2.5mm

Description	Order Code
Small Adjustable Rack Each rack assembly requires 2 rails	
End Panel - Single Faced	APR-3017S
Aluminium Rail - 250mm	ALR-0203
Aluminium Rail - 500mm	ALR-0503
Aluminium Rail - 1000mm	ALR-1003
Louvred Panel Adaptor Hooks (pair)	APR-H3
Spare nuts and bolts - bag of 40	APR-B3

Description	Order Code
Large adjustable rack Each rack assembly requires 4 rails	
End Panel - Single Faced	APR-4829S
Aluminium Rail 500mm	ALR-0504
Aluminium Rail 1000mm	ALR-1004
Aluminium Rail 2000mm	ALR-2004
Louvred Panel Adaptor Hooks (pair)	APR-H4
Spare nuts and bolts - bag of 40	APR-B4

Picking Bins

These bins, manufactured from conductive polystyrene, are designed with radiused interior corners for ease of picking of small components.

Dims. (mm)	Order Code
160 x 99 x 70	TPB-301
160 x 198 x 70	TPB-302
160 x 198 x 70 with 2 dividers	TPB-302-3

Bin Rack

Dissipative powder coated rack for picking bins with 3 levels. Bins extra, see above.
Dimensions: 200 x 455 x 290mm
Each shelf takes 4 TPB-301 or 2 TPB-302.

Order Code
TPL-12

ADJUSTABLE PCB RACKS AND PICKING BINS

CONDUCTIVE BOXES

● A range of boxes, in conductive polypropylene, for the storage and transport of static sensitive components and assemblies.

Transit Cases

These cases have a hinged lid, snap fasteners and a carrying handle.

Description	Order Code
External Dimensions	
227 x 190 x 47	PTC-2319
268 x 230 x 52	PTC-2723
305 x 260 x 75	PTC-3026
355 x 280 x 75	PTC-3528
380 x 320 x 95	PTC-4032

Cases can be fitted with profiled anti-static foam - prices available on request.

Component Boxes

Description	Order Code
Boxes with Hinged Lid	
40 x 40 x 13	PSB-0404
74 x 52 x 18	PSB-0705
100 x 60 x 18	PSB-1006
110 x 83 x 17	PSB-1108
143 x 102 x 38	PSB-1410
230 x 130 x 22	PSB-2313-2
230 x 130 x 31	PSB-2313-3
230 x 130 x 40	PSB-2313-4

Description	Order Code
Boxes with Hinged Lid fitted with 6mm high density conductive foam in base	
40 x 40 x 13	PSB-0404-H6
74 x 52 x 18	PSB-0705-H6
100 x 60 x 18	PSB-1006-H6
110 x 83 x 17	PSB-1108-H6
143 x 102 x 38	PSB-1410-H6
230 x 130 x 22	PSB-2313-2-H6
230 x 130 x 31	PSB-2313-3-H6
230 x 130 x 40	PSB-2313-4-H6

Description	Order Code
Boxes with Push-on Lid	
77 x 45 x 28	PSB-0805
89 x 54 x 28	PSB-0905
92 x 61 x 28	PSB-0906
100 x 50 x 28	PSB-1005
118 x 94 x 28	PSB-1209

STATIC SAFE ENVIRONMENTS

CONDUCTIVE BOXES AND BINS

Wez Range Small Boxes

Push-on Lid These boxes can be sub-divided into two to four compartments and 10 will fill a 600 x 400mm container (see page 66).

Description	Order Code
Box - 179 x 112 x 55	WPB-1711
Push-on Lid	WPB-1711-L
Divider	WPB-1711-D

Hinged Lid

Description	Order Code
136 x 87 x 19	WPB-1308-2
136 x 87 x 35	WPB-1308-3
136 x 87 x 55	WPB-1308-5
180 x 140 x 80	WPB-1814-8
225 x 125 x 60	WPB-2212-6

Component Storage Bins

Made from conductive polypropylene to provide small parts storage on standard shelves 300, 400, 500 and 600mm deep.
Bins self stack to maximise space utilisation and incorporate a corrugated base to ease component picking (600mm deep bin has smooth base).
Supplied with full width labels and clear (non-dissipative) shield..

Outer Dimensions	Order Code	
D x W x H (mm)	Storage Bins	Bin Dividers (packs of 10)
300 x 92 x 82	TCB-3010	
400 x 92 x 82	TCB-4010	TCB-D10
500 x 92 x 82	TCB-5010	
400 x 132 x 100	TCB-4015	
500 x 132 x 100	TCB-5015	TCB-D15
600 x 132 x 100	TCB-6015	
300 x 186 x 82	TCB-3020	
400 x 186 x 82	TCB-4020	TCB-D20
500 x 186 x 82	TCB-5020	
600 x 186 x 82	TCB-6020	

Small Parts Shelving System

A steel shelving system with a static dissipative epoxy finish, ideal for use with the Component Storage bins shown above and WEZ containers shown on page 66.

All bays 2020mm high x 1000mm wide with back braces and 6 shelves.
Initial bays have 4 uprights; extension bays have 2 uprights.

Shelf Size	Load Capacity
1000 x 400mm	150kg
1000 X 500mm	200kg
1000 X 600mm	200kg

Shelf size (mm)	Order Code
Initial Bay 2020mm high with 6 shelves	
1000 x 400	TSI-1004-6
1000 x 500	TSI-1005-6
1000 x 600	TSI-1006-6
Extension Bay 2020mm high with 6 shelves	
1000 x 400	TSX-1004-6
1000 x 500	TSX-1005-6
1000 x 600	TSX-1006-6
Additional Shelves	
1000 x 400	TPS-1004
1000 x 500	TPS-1005
1000 x 600	TPS-1006

Back and Side Cladding panels are available – please ask for details.

Tel: **01384 898599**
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Web: **www.static-safe.co.uk** **(download price list)**

DIP TUBE STORAGE

DIP Tube Boxes and Tubes

Manufactured from conductive fibreboard with conductive polyethylene end panels to facilitate repeated labelling.

Description	Order Code
DIP Tube Boxes	
550 x 125 x 65	FDB-0550
620 x 125 x 65	FDB-0620

Dip Tube Bin Boxes

Corstat™ boxes for the storage of DIP tubes on shelving and trolleys. Supplied flat for assembly as required.

Description	Order Code
Open Top	
635 x 108 x 108	COR-1205
635 x 206 x 108	COR-1244
Open Front	
635 x 108 x 108	COR-2205
635 x 206 x 108	COR-2244
Closed Both Ends	
635 x 105 x 105	COR-2000

DIP-Tube Storage Bin

DIP tube storage bins, manufactured from conductive polypropylene, are self stacking to save space and can be subdivided in the length with an aluminium divider.
Supplied with a full width label and a clear shield (non conductive).
Maximum DIP tube length: 610mm

Description	Order Code
Outer Dimensions	
625 x 140 x 90mm	TDT-1562
Divider	TDT-D60

STATIC SAFE ENVIRONMENTS

CORSTAT BOXES AND INPLANT HANDLERS

Corstat Chip Boxes

Boxes which are ideal for one trip shipping of sensitive devices, providing shielding and mechanical protection.
Fitted with lead-insertable conductive foam and supplied fully assembled.

Dims. (mm)	Order Code
90 x 30 x 15	COR-CH-05
100 x 60 x 15	COR-CH-10
120 x 100 x 15	COR-CH-20
140 x 40 x 15	COR-CH-40
160 x 80 x 15	COR-CH-60

Transit Packs

These packs are manufactured from
Corstat, a corrugated cardboard with a conductive coating on both sides to provide an effective electrostatic shield.
All sizes are available flat for customer assembly, or assembled and fitted with a profiled anti-static foam.

Description	Order Code	
Internal Dims (mm)	Unassembled	Assembled and Fitted with Antistatic Foam
40 x 40 x 15	COR-CB-S-A	COR-CB-S-B
60 x 60 x 25	COR-CB-1-A	COR-CB-1-B
100 x 100 x 38	COR-CB-2-A	COR-CB-2-B
135 x 50 x 20	COR-CB-3-A	COR-CB-3-B
178 x 127 x 38	COR-3080-1-A	COR-3080-1-B
178 x 127 x 64	COR-3090-2-A	COR-3090-2-B
229 x 191 x 38	COR-3180-3-A	COR-3180-3-B
229 x 191 x 64	COR-3190-4-A	COR-3190-4-B
267 x 216 x 38	COR-3220-5-A	COR-3220-5-B
267 x 216 x 64	COR-3230-6-A	COR-3230-6-B
318 x 267 x 38	COR-3310-7-A	COR-3310-7-B
318 x 267 x 64	COR-3320-8-A	COR-3320-8-B
340 x 140 x 64	COR-3400-9-A	COR-3400-9-B
394 x 318 x 64	COR-3500-10-A	COR-3500-10-B
521 x 394 x 38	COR-3600-11-A	COR-3600-11-B
521 x 394 x 64	COR-3610-12-A	COR-3610-12-B

Protective Postal Sleeves Manufactured from standard card, uncoated and unprinted, with a glued seam -
Add to the order code: -P1 or 2

Description	Order Code
for COR-3080-1 to COR-3230-6	-P1
for COR-3310-7 to COR-3610-12	-P2

Conductive Container Dividers

A cost effective system for dividing all types of ESD-protective containers.
These dividers are available as standard designs for various container systems.

Refer to page 72 for WEZ container dividers.
Refer to pages 74-75 for Corstat Stacking Boxes and Collapsible Totes
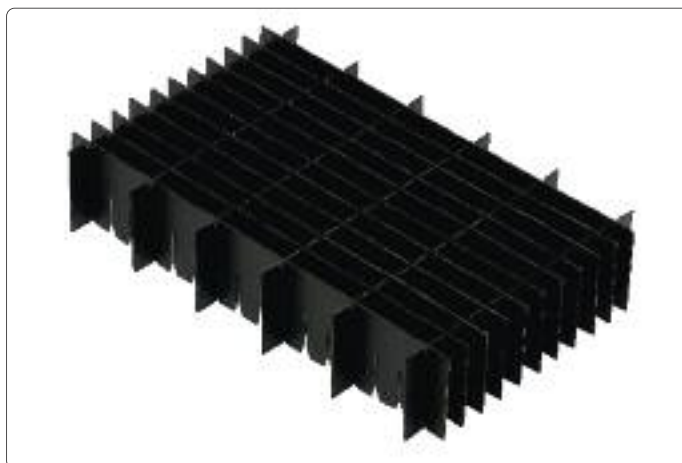
PLEASE CALL FOR SEPARATE DETAILS AND PRICES OF THIS RANGE

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METALLISED SHEILDING BAGS

- **Metallised shielding bags provide excellent protection for static-sensitive PCBs.**
- **Contents are protected against ESD outside protect areas.**
- **Semi-transparent so that contents can be identified without opening.**

Buried Metal Shielding Bags

Bags are manufactured from tough polyester film with a conductive metallised middle layer and a low charging polyethylene inner layer. All bags are printed with a standard warning symbol and warning caption, together with traceable manufacturing batch code. Wide high strength heat-sealed side seams maintain bag integrity.
Available in plain opening and resealable versions.

TECHNICAL SPECIFICATION
Surface Resistance:

Outer layer:	$<10^{11}\Omega$	EOS/ESD S11.11
Metallised layer	$<10^{2}\Omega$	EOS/ESD S11.11
Inner layer:	$<10^{11}\Omega$	EOS/ESD S11.11
Static Shielding:	$<25nJ$	EOS/ESD S11.11
Light transmission:	$>40\%$	
Overall Thickness:	$80\mu m$	

Metal Out Shielding Bags

Bags are manufactured from tough polyester film with a conductive metallised outer layer protected by an anti-abrasion lacquer and a low charging polyethylene inner layer.
All bags are printed with a standard warning symbol and warning caption, together with traceable manufacturing batch code. Wide high strength heat-sealed side seams maintain bag integrity.
Available in plain opening and resealable versions.

TECHNICAL SPECIFICATION
Surface Resistance:

Lacquer layer:	$<10^{8}\Omega$	EOS/ESD S11.11
Metallised layer	$<10^{2}\Omega$	EOS/ESD S11.11
Inner layer:	$<10^{11}\Omega$	EOS/ESD S11.11
Static Shielding:	$<25nJ$	EOS/ESD S11.11
Light transmission:	$>40\%$	
Overall Thickness:	$80\mu m$	

Buried Metal Moisture Barrier Bags

Bags are manufactured from tough polyester film with a conductive metallised outer layer protected by an anti-abrasion lacquer and a low charging polyethylene inner layer.
All bags are printed with a standard warning symbol and warning caption, together with traceable manufacturing batch code. Wide high strength heat-sealed side seams maintain bag integrity.

TECHNICAL SPECIFICATION
Surface Resistance:

Outer layer:	$<10^{11}\Omega$	EOS/ESD S11.11
Metallised layer	$<10^{2}\Omega$	EOS/ESD S11.11
Inner layer:	$<10^{12}\Omega$	EOS/ESD S11.11
Static Shielding:	$<20nJ$	EOS/ESD S11.11
Overall Thickness:	$92\mu m$	
Moisture Barrier:	0.002 grams	ASTM f1249-90.

PLEASE REFER TO THE SSE PRICE LIST OR WEBSITE FOR A FULL LIST OF SIZES FOR THE ABOVE PRODUCTS

All the bags on this page are supplied in sealed packs of 100.

METALLISED SHEILDING BAGS

STATIC SAFE ENVIRONMENTS

MISCELLANEOUS PACKAGING

Shielding Bubble Bags and Roll Film

Manufactured from metallised shielding film laminated to antistatic polyethylene bubble film and amine free antistatic inner lining. Provides mechanical and shielding protection in one package. Each bag has a fold-over lip for sealing. Supplied in packs of 10 or as 100m rolls of sheet.
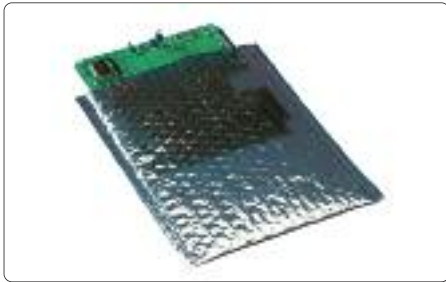
TECHNICAL SPECIFICATION
Rs (inside and outside surface) $<5 \times 10^{11} \Omega$
Discharge: <2 sec 1000 to 100V at 50% RH
Thickness: 70μm heat sealable.

Pink Low-Charging Bags

Manufactured from low-charging polyethelene, which contains additives to prevent charge generation. Available in standard or resealable versions. Ideal for holding non-esd sensitive items within the EPA.
Supplied in packs of 100.
NOTE: These bags do not have shielding properties.

TECHNICAL SPECIFICATION
Rs $<1 \times 10^5 \Omega$
Discharge: <1 sec 1000 to 100V

Conductive Black Bags

Manufactured from conductive polyethylene, these bags are suitable for packaging of PCBs that do not contain on-board batteries. Conductive bags are not a true shielding bag and use should be restricted to ESD Protected Areas or as proximity packaging within a shielding outer.
Supplied in packs of 100.

TECHNICAL SPECIFICATION
Rs $<1 \times 10^{11} \Omega$
Discharge: <2 sec 1000 to 100V
Shelf Life >1 year
Thickness: 70μm heat sealable.

PLEASE REFER TO THE SSE PRICE LIST OR WEBSITE FOR A FULL LIST OF SIZES FOR THE ABOVE PRODUCTS

Desiccant Sachets and Moisture Indicator Cards

Used inside Moisture Barrier Bags to maintain low humidity conditions and indicate seal failure or puncture.

Unit and Size	Per Can/Pack	Order Code
½ unit Desiccant Sachet 38 x 80mm	700	CW-90666
1 unit Desiccant Sachet 80 x 100mm	500	CW-90667
Humidity Indicator Card 51 x 76mm 5/10/15% JEDEC J-STD-033A	125	CW-90664
Humidity Indicator Card 51 x 76mm 5/10/60% JEDEC J-STD-033B	125	CW-90665

Pink Antistatic Bubble Wrap

Anti-static bubble wrap provides excellent cushioning properties when used as a secondary packaging material.

Description	Order Code
100m long x 1500mm wide	PBP-1015

TECHNICAL SPECIFICATION
Roll length: 100m
Roll width: 1500mm
Bubble size: 9.5mm diam.

Refuse Bags

Manufactured from low charging polyethylene in three colours for waste segregation.
In packs of 100

Description	Order Code
110 litre (990 x 460diam.)	ABL-9946
50 litre (700 x 420diam.)	ABL-7042
30 litre(700 x 280diam.)	ABL-7028
(add –B,-R,-G to order code for colour required)	

Size	Colours available
110 litre	Blue/Red/green
50 litre	Blue/Red
30 litre	Blue

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PACKAGING AND MASKING TAPES AND LABELS

Antistatic Cellulose Tape
Available in clear film or printed with ESD symbols. Ideal for bag sealing and DIP tube packing. Tape core 76.2mm or 25.4mm.

Antistatic Shielding Tape
Printed with a conductive grid to provide shielding performance for critical closure applications. Base film and adhesive are low charging (antistatic).

PLEASE REFER TO THE SSE PRICE LIST OR WEBSITE FOR A FULL LIST OF SIZES

Antistatic Polyimide High Temperature Tape
Used for PCB connector masking in wave solder and reflow ovens.
Maximum temperature: 300°C for 10sec.

Antistatic High Temperature Tape
Used for PCB connector masking, the tape is waterproof and low charging.
Maximum temperature: 145°C for 45min.

Tape Dispensers
Groundable chassis tape dispensers for use with all the tapes illustrated.

Width Capacity (mm)	Order Code
48	CW-71136

Packaging Tape
These tapes are printed with a standard warning and triangle symbol to advise that contents are static sensitive.

Description	Order Code
Standard Grade This tape is a PVC based product, only for use on secondary packaging outside an ESD protected area.	
66m x 50mm wide	PTS-6605
Anti-Static Grade This tape uses a special paper based material which is non-tribocharging and can be used on proximity packaging within an ESD protected area.	
66m x 50mm wide	PTA-6605

ESD-Safe Paper Labels
Supplied on rolls of 500.

ATTENTION Contents Static Sensitive Handling Precautions Required Contents ____

Label Size (mm)	Order Code
46 x 64 Contents...	SWL-4664

Packaging Labels
A range of self-adhesive paper warning labels for bags, containers and other packaging to provide obvious identification of static sensitive devices and assemblies.
Supplied in rolls of 1000.

Label Size (mm)	Order Code
12 x 20	SWL-1220
19 x 39	SWL-1939
25 x 52	SWL-2552
36 x 76	SWL-3676

STATIC SAFE ENVIRONMENTS

CONDUCTIVE FOAM AND MACHINED FOAM INSERTS

Conductive Foam

These foams meet the resistivity and non-corrosivity requirements of MOD specification TS 10218. Both grades of foam are available cut to size - please ask for a quotation.

Thickness (mm)	Order Code
Low Density packs of 4 - 500 x 500mm sheets. Suitable for transit packaging and cushioning.	
6	CFL-06
10	CFL-10
12	CFL-12
15	CFL-15
20	CFL-20
25	CFL-25
High Density packs of 9 - 305 x 305mm sheets. Suitable for protection of individual components, allowing lead shorting by insertion into the material.	
6	CFH-06
10	CFH-10
15	CFH-15
25	CFH-25

Machined Foam Inserts

Where a high level of mechanical protection is required for expensive complex assemblies, conductive machined foam provides an excellent solution. The material is a conductive EVA foam, in a range of densities. A modest charge for programming is made and, to save costs, prototypes are normally machined from non-conductive foam for dimensional checking. WEZ containers and lids provide an effective outer case for transport and storage.

For details of the range of WEZ conductive containers refer to page 66.

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SMALL PARTS CABINETS

T-Range Small Parts Cabinets

Cabinets which have frames moulded from conductive polypropylene and drawers moulded from conductive polystyrene, with zinc plated steel shelves. Drawers are available in 6 sizes, supplied with plain labels. Suitable for bench or wall mounting with the option to group on fixed racks or turntables (see opposite page).

290 Series Cabinet

Overall Dimensions 290h x 310w x 180d (mm)

Drawers	d x w x h (mm)	Order Code
24	170 x 69 x 40	SPT-2924
12	170 x 92 x 62	SPT-2912

550 Series Cabinet

Overall Dimensions 550h x 310w x 180d (mm)

Drawers	d x w x h (mm)	Order Code
48	170 x 69 x 40	SPT-5548
24	170 x 92 x 62	SPT-5524

300 Series Cabinet

Overall Dimensions 300d x 400w x 395h (mm))

Drawers	d x w x h (mm)	Order Code
8	300 x 186 x 82	SPT-3008
16	300 x 92 x 82	SPT-3016

400 Series Cabinet

Overall Dimensions 400d x 400w x 395h (mm)

Drawers	d x w x h (mm)	Order Code
8	400 x 186 x 82	SPT-4008
16	400 x 92 x 82	SPT-4016

STATIC SAFE ENVIRONMENTS

SMALL PARTS CABINETS

● **Stands and Trolley manufactured from steel tube with a grey static dissipative epoxy finish.**

Single Sided Stand

Accommodates 4 - 550 Series cabinets shown opposite, which must be ordered separately.
Dimensions: 760w x 420d x 1585h (mm)

	Order Code
	TSS-04

Double Sided Stand

Accommodates 8 - 550 Series cabinets shown opposite, which must be ordered separately.
Dimensions: 760w x 600d x 1585h (mm)

	Order Code
	TSD-08

Double Sided Trolley

Accommodates 8 - 550 Series cabinets shown opposite, which must be ordered separately.
Dimensions: 760w x 600d x 1700h (mm)

	Order Code
	TTD-08

300/400 Series Turntable

Accommodates 16 – 300 or 400 Series cabinets shown opposite, which must be ordered separately.

Dims. (mm)	Order Code
300 Series	
700 x 700 x 1680h	TTT-3016
400 Series	
800 x 800 x 1680h	TTT-4016

550 Series Turntable

Accommodates 12 – 550 Series cabinets shown opposite, which must be ordered separately.

Dims. (mm)	Order Code
500 x 500 x 1730h	TTT-5512

Bench Turntable

Accommodates 2 – 290 or 550 Series cabinets shown opposite, which must be ordered separately.

Dims. (mm)	Order Code
290 Series	
310 x 360 x 300	TTT-2902
550 Series	
310 x 360 x 560	TTT-5502

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SMALL PARTS CABINETS

● A range of plated cabinets, which can be grounded, with conductive drawers for the storage of small components. Drawer dividers are available.

150-420 Range

Cabinet dimensions (mm): 420 high x 307 wide x 150 deep

Description	Order Code
Cabinet with 18 Drawers	
57 x 87 x 135	SPR-18
SPR-18 dividers (per set of 24)	SPD-5787

Description	Order Code
Cabinet with 36 Drawers	
35 x 64 x 135	SPR-36
SPR-36 dividers (per set of 48)	SPD-3564

Description	Order Code
Cabinet with 45 Drawers	
35 x 52 x 135	SPR-45
SPR-45 dividers (per set of 60)	SPD-3552

150-555 Range

Cabinet dimensions: 555 high x 307 wide x 150 deep

Description	Order Code
Cabinet with 24 Drawers	
57 x 87 x 135	SPR-24
SPR-18 dividers (per set of 24)	SPD-5787

Description	Order Code
Cabinet with 48 Drawers	
35 x 64 x 135	SPR-48
SPR-48 dividers (per set of 48)	SPD-3564

Description	Order Code
Cabinet with 60 Drawers	
35 x 52 x 135	SPR-60
SPR-60 dividers (per set of 60)	SPD-3552

Turntable for 150-420 Range Cabinets

To accommodate 4, 8 or 12 cabinets in 1, 2 or 3 tiers.

Description	Order Code
Turntable for 150-420 Range	SPR-TT4

STATIC SAFE ENVIRONMENTS

SMALL PARTS CABINETS AND CASES

250-440 Cabinet

Cabinet dimensions (mm): 440 high x 360 wide x 250 deep.

Description	Order Code
Cabinet with 6 Drawers	
50 x 320 x 240	SPR-6L

Service Cases

Plain service case
Conductive polypropylene case with lid and carrying handle to accommodate any of the Insert Boxes shown opposite.
Foam insert
Note: 23 high x 80 x 110mm Insert Boxes require a foam insert to retain the contents when used in a Service Case.

Description	Order Code
Plain Service Case	
340 x 260 x 57	SPC-3426-1
Foam Insert	
30 x 220 x 20	CFI-3222-20

Insert Boxes

These small inserts fit 250 Range drawers and Service Cases, opposite, and can be used in mixed combinations.

Description	Per Drw/case	Order Code
45 x 40 x 55		
(32 per pack)	32	SPI-0405-1

Description	Per Drw/case	Order Code
80 x 45 x 55		
(16 per pack)	16	SPI-0408-1

Description	Per Drw/case	Order Code
23 x 80 x 110		
(20 per pack)	8*	SPI-0811-1

Description	Per Drw/case	Order Code
23 x 80 x 110		
(20 per pack)	8*	SPI-0811-5

*Quantity per layer; these inserts can be stacked 2 high in the 250-440 drawers.

Service Cases with Fixed Dividers

For small static sensitive parts.

Description	Order Code
32 compartments	
342 x 260 x 57	SPC-3426-32

Description	Order Code
15 compartments	
342 x 260 x 57	SPC-3426-15

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CORSTAT REEL HOLDERS

- **Designed for bulk reel storage on shelves and trolleys.**
- **Dividers are removable to create wider cells.**
- **Two depths and three lengths for 7" and 13/15" reels.**
- **Supplied fully assembled and ready for use.**

15" Single Reel Holder in Corstat

7" Triple Holder Rack in Corriplast

Corstat Conductive Corrugated Fibreboard

Description		Dimensions h x w x l (mm)	Front Height (mm)	Cell Width (mm)	Order Code
7" Reel Holder					
Single Unit	11 Cells	200 x 240 x 186	93	18	CRR-7118
Single Unit	7 Cells	200 x 240 x 186	93	32	CRR-7132
Double Unit	22 Cells	200 x 240 x 573	93	18	CRR-7218
Double Unit	14 Cells	200 x 240 x 573	93	32	CRR-7232
Triple Unit	33 Cells	200 x 240 x 860	93	18	CRR-7318
Triple Unit	21 Cells	200 x 240 x 860	93	32	CRR-7332
15" Reel Holder					
Single Unit	11 Cells	200 x 385 x 186	93	18	CRR-15118
Single Unit	7 Cells	200 x 385 x 186	93	32	CRR-15132
Double Unit	22 Cells	200 x 385 x 573	93	18	CRR-15218
Double Unit	14 Cells	200 x 385 x 573	93	32	CRR-15232
Triple Unit	33 Cells	200 x 385 x 860	93	18	CRR-15318
Triple Unit	21 Cells	200 x 385 x 860	93	32	CRR-15332

Corriplast Conductive Fluted Plastic

Description		Dimensions h x w x l (mm)	Front Height (mm)	Cell Width (mm)	Order Code
7" Reel Holder					
Single Unit	11 Cells	200 x 240 x 186	93	18	CRX-7118
Single Unit	7 Cells	200 x 240 x 186	93	32	CRX-7132
Double Unit	22 Cells	200 x 240 x 573	93	18	CRX-7218
Double Unit	14 Cells	200 x 240 x 573	93	32	CRX-7232
Triple Unit	33 Cells	200 x 240 x 860	93	18	CRX-7318
Triple Unit	21 Cells	200 x 240 x 860	93	32	CRX-7332
15" Reel Holder					
Single Unit	11 Cells	200 x 385 x 186	93	18	CRX-15118
Single Unit	7 Cells	200 x 385 x 186	93	32	CRX-15132
Double Unit	22 Cells	200 x 385 x 573	93	18	CRX-15218
Double Unit	14 Cells	200 x 385 x 573	93	32	CRX-15232
Triple Unit	33 Cells	200 x 385 x 860	93	18	CRX-15318
Triple Unit	21 Cells	200 x 385 x 860	93	32	CRX-15332

STATIC SAFE ENVIRONMENTS

REEL STORAGE TROLLEYS

● **This versatile adjustable trolley provides storage and safe transport for up to 360 SMD reels.**

Adjustable reel storage trolley, steel framed, with a static dissipative epoxy finish and conductive castors (two braked) for use within an EPA, providing effective grounding of the whole assembly.

All storage levels are adjustable by slackening the corner clamps with a hexagon key.

Load capacity:
Per trolley 200kg
Per level 50kg.

Each level consists of a wire-frame reel rack with 30 locations for 7" reels or 15 locations for 13/15" reels. Each location is 60mmm wide and reel sizes can be mixed within one level.
Individual reel racks can be purchased for use on existing shelves on trolleys.

Description	Order Code
Reel Trolley with Base Shelf and 3 Reel Storage Levels 1785h x 1100w x 540d	TRT-1803

Reel Racks Extra - See TRR-1015 below.

Each reel and lower shelf are height adjustable with hexagon key to individual requirements.

Description	Order Code
Reel Racks 960w x 426d x 254l	TRR-1015

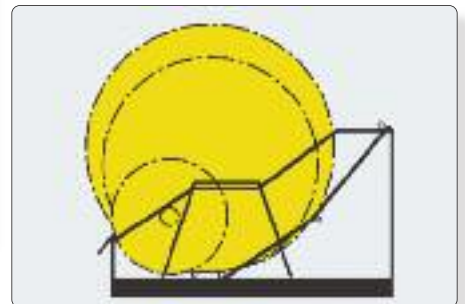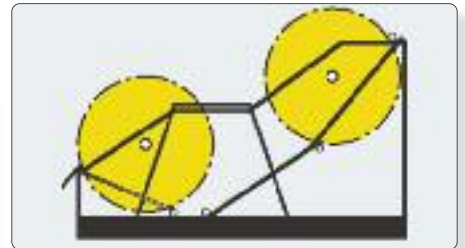| Description	Order Code
A4 document holder	TTD-A4

Illustration of reel storage method

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ADJUSTABLE PCB TROLLEYS

ADJUSTABLE PCB TROLLEYS

● A range of trolleys for the storage and transportation of printed circuit boards in production quantities. Boards are supported securely on two parallel edges, in either the vertical or horizontal plane, by injection moulded conductive polypropylene grooved panels. The spacing between panels is adjustable for various sizes of PCBs.

Aluminium
Square Tube Construction Trolleys

Horizontal PCB Location
The basic trolley has two single sided end panels and one double sided intermediate panel.
Trolley dimensions: 1500mm high x 600mm or 900mm wide.

Description	Order Code
Basic Trolley - 600mm wide	
510	AAH-0605
640	AAH-0606
Basic Trolley - 900mm wide	
510	AAH-0905
640	AAH-0906
Additional Intermediate Panels	
510	PAH-0805
640	PAH-0806

To order location guide strips add -LG to the Order Reference.
Base shelf is fitted as standard

Location Guide Strips
Location guide strips are fitted as an optional extra to facilitate insertion of wide PCBs.
To order location guide strips add -LG to the Order Reference.

Description	Order Code
Suffix to order ref.	
All panel edges of a basic trolley	
	-LGT
Both panel edges of extra int. panel	
	-LGP

Aluminium Runners for Wez Containers
Storage of flat trays fitted with aluminium runners, useful when PCBs cannot be located in grooves. Rivetted to two sides.

Description	Order Code
To fit to Tray (mm)	
300	AAR-300
400	AAR-400
600	AAR-600

See Page 84 for WEZ Containers
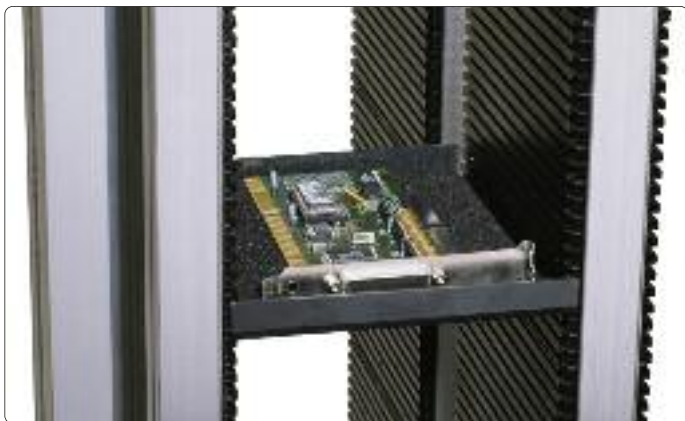
Slide-Tray Inserts
Conductive polystyrene panels with a front and back lip to support PCBs which are unsuitable for groove location. Available in three standard widths or manufactured to specific requirements (subject to quantity). All have a lip height of 20mm front and back and are fitted with 6mm low density conductive foam in the base. Supplied in packs of 10.

Depth into trolley (mm)	Width (mm)	Order Code
For 500mm Deep Trolleys		
250	125	STI-2512
250	250	STI-2525
250	350	STI-2535
For 600mm Deep Trolleys		
300	125	STI-3012
300	250	STI-3025
300	350	STI-3035

STATIC SAFE ENVIRONMENTS

ADJUSTABLE PCB TROLLEYS

Aluminium
Square Tube Construction Trolleys

Vertical PCB Location

The basic trolley has one single sided top panel, one double sided intermediate panel and one single sided base panel.

Trolley dimensions: 1400mm high x 600mm or 900mm wide.

Description	Order Code
Trolley Depth (mm)	
Basic Trolley - 600mm wide	
510	AAV-0605
640	AAV-0606
Basic Trolley - 900mm wide	
510	AAV-0905
640	AAV-0906
Additional Intermediate Panels	
600mm wide	
510	PAV-0505
640	PAV-0506
900mm wide	
510	PAV-0805
640	PAV-0806

Top Cover and Bottom Shelf

Description	Order Code
Trolley Dimensions (mm)	
Grey Dissipative MDF	
600 x 510	PAS-0805
600 x 640	PAS-0806
900 x 510	PAS-0905
900 x 640	PAS-0906

Location Guide Strips

Location guide strips are fitted as an optional extra to facilitate insertion of wide PCBs.

To order location guide strips add - LG to the Order Reference.

Description	Order Code
Suffix to order ref.	
All panel edges of a basic trolley	
	-LGT
Both panel edges of extra int. panel	
	-LGP

Earth Bonding

10mm press studs for earth bonding

Description	Order Code
Suffix to order ref.	
2 - 10mm press studs	-10PS

TECHNICAL SPECIFICATION

Framework:	25mm anodised aluminium square tube. Aluminium panel support frames.
Castors:	100mm swivel two conductive, two grey nylon braked
Slot Dimensions:	Number of slots per panel - 100. Slot pitch - 8mm. Slot size - 2.5 wide x 3.5mm deep. All trolleys provide access from both sides.
Earth Bonding:	Achieved with - conductive castors (two per trolley) or - 2 x 10mm press studs and ground lead.

Conductive rubber tyred castors (normally fitted 2 per trolley).

Grey nylon braked castors.

TUBE KIT TROLLEYS AND UNIVERSAL TROLLEY

● A range of trolleys constructed from anodised aluminium square tube which can be economically adapted for a wide range of applications. All shelves are light grey static dissipative melamine and the framework is electrically bonded throughout to ensure efficient grounding, either through conductive castors or a snap on ground lead.

Two-Tier Trolley

Height to top of handle:	955mm
Height to top shelf:	800mm
Height over bottom shelf:	165mm
Clearance between shelves:	610mm

Dims. (mm)	Order Code
Length x Width	
670 x 470	TK2-0604
970 x 470	TK2-0904
970 x 670	TK2-0906

Three-Tier Trolley

Height to top of handle:	955mm
Height to top shelf:	800mm
Height over bottom shelf:	165mm
Clearance between shelves:	292mm

Dims. (mm)	Order Code
Length x Width	
670 x 470	TK3-0604
970 x 470	TK3-0904
970 x 670	TK3-0906

● This adaptable trolley provides a wide range of possible configurations.

● Product handling, kitting, instrumentation or mobile PC workstation.

● Fully adjustable shelves with a range of standard accessories.

Universal Trolley

Basic trolley consists of two uprights and base with four conductive castors (two braked) and three static dissipative laminate shelves.
Shelf size: 530w x 650d (mm)
Shelf capacity: 50kg.
Trolley size: 1415h x 660w x 650d (mm)

Description	Order Code
Basic Trolley	TUT-1403
Keyboard Pullout	
500w x 250d	TUK-05
2 Drawer Unit	
460w x 370d x 245h	TUD-4602

Mains socket rails are available to customer requirements. Please ask for a quotation.

Description	Order Code
Extra Shelf	
530w x 650d	TUS-0506

Description	Order Code
Adjustable Slope Shelf with Lip	
530w x 650d	TUA-0506

Description	Order Code
Bin Rail	
525mm	TUB-05

STATIC SAFE ENVIRONMENTS

ADUSTABLE SHELF TROLLEYS

Adjustable Shelf Trolleys

Adjustable steel trolleys, steel framed with a static dissipative epoxy finish, dissipative laminate shelves and conductive castors (two braked) for use within an EPA, providing effective grounding of the whole assembly.

Two styles are offered, in low or high configurations. All shelves are adjustable by slackening the corner clamps with a hexagon key.

Load capacity:
Low Trolley: 150kg
Tall Trolley: 300kg
Per shelf: 50kg

Trolleys can be fitted with a pair of mesh end panels to secure loads.

Description	Order Code
Low Trolley with 2 shelves - Overall Height: 1015mm	
800 x 430	TTA-4082
1000 x 430	TTA-4102
800 x 530	TTA-5082
1000 x 530	TTA-5102
Tall Trolley with 4 shelves - Overall height: 1535mm	
Shelf Size (mm)	
1000 x 430	TTA-4104
1000 x 530	TTA-5104
Additional Shelves	
800 x 430	TTS-0804
1000 x 430	TTS-1004
800 x 530	TTS-0805
1000 x 530	TTS-1005

Description	Order Code
Mesh End Panels – in Pairs	
Low 435 wide	TML-04
Low 535 wide	TML-05
Tall 435 wide	TMT-04
Tall 535 wide	TMT-05
A4 document holder	TDH-A4

Trolleys are supplied packed flat with assembly instructions.

Tel: **01384 898599**
Fax: **01384 898577**

Email: **sse@static-safe.co.uk**
Web: **www.static-safe.co.uk (download price list)**

KITMASTER LOUVRED PANEL SYSTEM

● A range of trolleys and racks based around zinc plated louvred panels, providing a storage and transportation system for all types of components and sub-assemblies in the electronics industry.

Single Sided Trolleys
Base depth - 508mm

with 1220 x 610mm panel

Trolley Width (mm)	Order Code
915 High Panel - Overall Height 1090	
470	KMT-0509S
623	KMT-0609S
927	KMT-0909S
1233	KMT-1209S
1220 High Panel - Overall Height 1400	
470	KMT-0512S
623	KMT-0612S
927	KMT-0912S
1233	KMT-1212S

Double Sided Trolleys
Base depth - 711mm

with 915 x 457mm panel each side

Trolley Width (mm)	Order Code
915 High Panel - Overall Height 1090	
470	KMT-0509D
623	KMT-0609D
927	KMT-0909D
1233	KMT-1209D
1220 High Panel - Overall Height 1400	
470	KMT-0512D
623	KMT-0612D
927	KMT-0912D
1233	KMT-1212D

Note: All louvred panel trolleys are supplied with the upper framework and panels assembled and packed flat with the base, castors and handle.

Double sided trolley with 2 - 1220 x 457mm panels each side, fitted with tubular handle

Castor Types
All castors are 100mm diameter swivel type.
two conductive and two grey rubber with brakes are fitted as standard.

KITMASTER LOUVRED PANEL SYSTEM

STATIC SAFE ENVIRONMENTS

KITMASTER LOUVRED PANEL SYSTEM

Storage Racks

Assembled from initial racks supplied with two braced legs and
extension racks supplied with one braced leg
Container extra, see page 114

Panel Width (mm)	Order Code
Single Sided Racks -	
Initial Rack with 2 support feet	
623 x 1220	KSR-0612S
927 x 1220	KSR-0912S
623 x 1830	KSR-0618S
927 x 1830	KSR-0918S
Extension Rack - with 1 support foot	
623 x 1220	KSE-0612S
927 x 1220	KSE-0912S
623 x 1830	KSE-0618S
927 x 1830	KSE-0918S
Double Sided Racks -	
Initial Rack with 2 support feet	
623 x 1220	KDR-0612D
927 x 1220	KDR-0912D
623 x 1830	KDR-0618D
927 x 1830	KDR-0918D
Extension Rack - with 1 support foot	
623 x 1220	KDE-0612D
927 x 1220	KDE-0912D
623 x 1830	KDE-0618D
927 x 1830	KDE-0918D

**Free standing single sided
rack with 1220 x 610mm panel**

Bench Racks

Small louvred panel racks for use on benches. Supplied packed flat.
Container extra, see page 114

Dims. (mm)	Order Code
Height x Width	
495 x 457	KMR-0505
495 x 915	KMR-0509

Louvred Panels

These zinc plated steel louvred panels are supplied for use on your own
mounting surface or framework. Louvre pitch: - vertical 50mm centres -
horizontal 80mm centres
Container extra, see page 114

Dims. (mm)	Order Code
Height x Width	
457 x 457	KMV-0505
457 x 915	KMV-0509
610 x 457	KMV-0605
610 x 610	KMV-0606
915 x 457	KMV-0905
915 x 610	KMV-0906
1220 x 457	KMV-1205
1220 x 610	KMV-1206

KITMASTER LOUVRED PANEL SYSTEM

Plastiboxes

A range of scoop fronted injection moulded boxes, manufactured from conductive polypropylene, designed for use with louvred panel systems.

SPB Range

Dims. (mm)	Order Code
Width x Depth x Height	
100 x 90 x 55	SPB-15
as above with centre divider	SPB-16
100 x 160 x 75	SPB-17
145 x 240 x 125	SPB-18
210 x 330 x 155	SPB-19

SQB Range

Dims. (mm)	Order Code
Width x Depth x Height	
100 x 90 x 50	SQB-101
100 x 165 x 75	SQB-102
150 x 240 x 125	SQB-103
200 x 355 x 125	SQB-104
200 x 355 x 175	SQB-105
420 x 381 x 175	SQB-106

SCB-25 PCB Rack

SCB-25

This rack is moulded from conductive polypropylene, with 48 PCB locations on 8mm pitch.
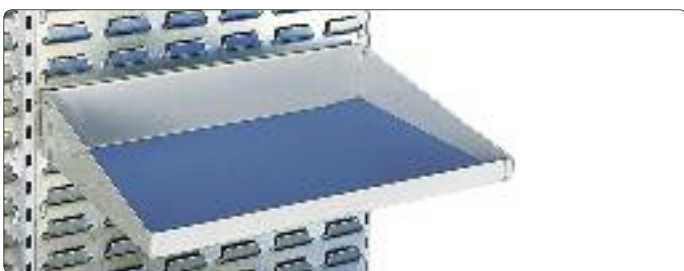
Overall dimensions (mm):	406 x 275 x 150 high
Internal dimensions(mm):	250 base depth x 125 high
Groove dimensions (mm):	2.8 wide x 4 deep

SCB-25 Dividers

Clip into location slots to accommodate PCBs that cannot be supported in the grooves. Supplied in packs of 10.

Description	Order Code
406 x 275 x 150mm high	SCB-25
Divider for SCB-25 (per 10)	SCB-25-DIV

Hook-On-Shelf

This shelf is fitted with a static dissipative mat and is ideal for holding PCB assemblies.

Description	Order Code
420 x 300 x 50	KHS-0403

STATIC SAFE ENVIRONMENTS

LOUVRED PANEL ADAPTORS AND STACKING BINS

● **Stands and Trolley manufactured from steel tube with a grey static dissipative epoxy finish.**

Wez Rack Adaptor Plate

This adaptor fits to the aluminium rail on WEZ Racks to provide louvred panel mounting.

Dims. (mm)	Order Code
Single Hook for narrow racks up to 150mm PCB size	KWZ-01
Double Hook for wide racks up to 300mm PCB size	KWZ-02

For racks over 300mm use two KWZ-01
For information on the Wez Rack system refer to page 90.

Drawer Cabinet Adaptor

This adaptor fits to the back of standard drawer cabinets to provide louvred panel mounting. Maximum load per pair 30kg.
For information on the Drawer Cabinet range system refer to pages 102 and 104.

Width (mm)	Order Code
300	KDC-03

Stacking Bins

A range of stackable bins, manufactured from conductive polypropylene for use with or without storage racks and trolleys.
Trays can be split across the width with a dissipative coated steel divider.
Labels and transparent shields are also offered.

Dims. (mm)	Order Code		
d x w x h	Bins	Cross Dividers	Labels
165 x 105 x 75mm	TBS-16	-	TBL-16
192 x 149 x 105mm	TBS-19	-	TBL-19
250 x 149 x 130mm	TBS-25	TBD-25	TBL-25
300 x 186 x 156mm	TBS-30	TBD-30	TBL-30
400 x 186 x 156mm	TBS-40	TBD-40	TBL-30

Racks and Trolley

Free standing single and double sided racks and a double sided trolley provide high density storage using the above stacking bins. Each unit has eight bin rails in the height.

Dims. (mm)	Order Code
Single Sided Rack 1585 x 820 x 420	TBR-16S
Double Sided Rack 1585 x 820 x 600	TBR-16D
Double Sided Trolley 1700 x 820 x 600	TBT-17D

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PLATED SHELVING AND TROLLEYS

● System of easily assembled and adjusted shelving , conductive throughout and suitable for Class 100 cleanroom applications. Shelves are supported on tubular uprights with a patented locking collar. Castors can be fitted to the uprights to form mobile racks.


Tubular Post Shelving

Shelves - solid sheet or open wire mesh in stainless steel or zinc chromate finish on mild steel.

Description	Order Code
Solid Shelves - Zinc Chromate	
900 x 450	SHP-9045-Z
1200 x 450	SHP-12045-Z
600 x 600	SHP-6060-Z
900 x 600	SHP-9060-Z
1200 x 600	SHP-12060-Z
Wire Shelves - Zinc Plated	
900 x 450	SHW-9045-Z
1200 x 450	SHW-12045-Z
600 x 600	SHW-6060-Z
900 x 600	SHW-9060-Z
1200 x 600	SHW-12060-Z
Tubular Posts - Chromium Plated	
950 high	SHU-95-C
1200 high	SHU-120-C
1500 high	SHU-150-C
1700 high	SHU-170-C
2200 high	SHU-220-C

FOR CONDUCTIVE FEET AND CASTOR OPTIONS SEE PAGE 101

Copper foil earthing sleeve. (2 supplied per shelf)
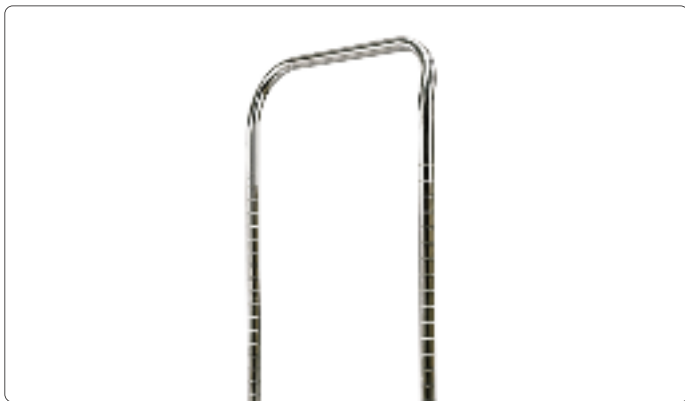
Description	Order Code
Trolley Handles - Chromium Plated	
450 wide	SHH-45-C
600 wide	SHH-60-C

Description	Order Code
Earth Bonding - suffix to order code	
2-10mm press studs with fixings	-10PS
Conductive adjustable feet	CAF-01

10mm press studs for earth bonding.

Conductive foot for use with static dissipative floors. (2 per bay)

Shelf Trolley

General purpose shelf trolleys with two or three shelves, adjustable on 25mm centres. Handles are chromium plated, with shelves zinc plated. Alternative shelf types are available; see above.
Overall Dimension: 1050H x 900W x 457/610mm deep.

Trolley depth (mm)	Order Code
2-Tier	
450	ST2-0905
600	ST2-0906
3-Tier	
450	ST3-0905
600	ST3-0906

STATIC SAFE ENVIRONMENTS

CHROME-LINE SHELVING AND TROLLEYS

- A flexible and strong storage system using chromium plated wire shelves and posts. Assembly requires only a nylon mallet and a spanner to tighten castors. Suitable for use in cleanrooms to Class 100.
- Conductive plastic corner sleeves and plated feet or conductive castors ensure continuity to ground.

Tubular Posts

25mm diameter with adjustment grooves at 25mm centres. Posts are supplied as standard with no foot insert.
Conductive feet and castors are shown below.

Description	Order Code
Post Height (mm)	
760	CLS-POS-0760
1625	CLS-POS-1625
1880	CLS-POS-1880
2130	CLS-POS-2130

Shelves

6mm wire frame and braces with 4mm cross wires at 40mm centres. All shelves are supplied with two standard and two conductive locking sleeves.

Description	Order Code
Shelf Size L x W (mm)	
915 x 305	CLS-SHE-0903
1220 x 305	CLS-SHE-1203
760 x 460	CLS-SHE-0704
915 x 460	CLS-SHE-0904
1070 x 460	CLS-SHE-1004
1220 x 460	CLS-SHE-1204
1520 x 460	CLS-SHE-1504
760 x 610	CLS-SHE-0706
915 x 610	CLS-SHE-0906
1070 x 610	CLS-SHE-1006
1220 x 610	CLS-SHE-1206
1520 x 610	CLS-SHE-1506

Copper foil earth strip on locking sleeve

Feet And Castors

Plated Feet - fit 2 per bay   **Set of 4 Castors** - 2 standard braked and 2 conductive 100mm diameter

Conductive foot for use with static dissipative floors.

Conductive rubber tyred castors (normally fitted 2 per trolley).

Grey rubber braked castors (normally fitted 2 per trolley).

Description	Order Code
Plated Feet	CAF-01

Description	Order Code
4 Castors	CLS-AS-100

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SHORTSPAN SHELVING PACKS

SHORTSPAN SHELVING PACKS

A zinc plated shelving system, supplied in complete bay packs, consisting of pre-assembled leg-frames with shelf support beams and one-piece shelf panels. Ideal for storing WEZ containers (see page 66).

Leg frames: 2000mm high in 4 depths 320/400/500/600mm
Shelf Assemblies: 6 per pack, 900mm and 1200mm wide
Adjustment Centres: 33mm pitch
Maximum bay load: 1500kg

900mm Wide Bays

Initial Bay with 2 Leg-Frames and 6 Shelves		
Depth mm	Order code	UDL per shelf
320	SSP-0903-I	280kg
400	SSP-0904-I	235kg
500	SSP-0905-I	185kg
600	SSP-0906-I	150kg
Extension Bay with 1 Leg-Frame and 6 Shelves		
Depth mm	Order code	UDL per shelf
320	SSP-0903-E	280kg
400	SSP-0904-E	235kg
500	SSP-0905-E	185kg
600	SSP-0906-E	150kg
Extra Shelves		
Depth mm		Order code
320	SSS-0903	
400	SSS-0904	
500	SSS-0905	
600	SSS-0906	

1200mm Wide Bays

Initial Bay with 2 Leg-Frames and 6 Shelves		
Depth mm	Order code	UDL per shelf
320	SSP-1203-I	275kg
400	SSP-1204-I	200kg
500	SSP-1205-I	200kg
600	SSP-1206-I	200kg
Extension Bay with 1 Leg-Frame and 6 Shelves		
Depth mm	Order code	UDL per shelf
320	SSP-1203-E	275kg
400	SSP-1204-E	200kg
500	SSP-1205-E	200kg
600	SSP-1206-E	200kg
Extra Shelves		
Depth mm	Order code	
320	SSS-1203	
400	SSS-1204	
500	SSS-1205	
600	SSS-1206	

LONGSPAN SHELVING PACKS

LONGSPAN SHELVING PACKS

A zinc plated shelving system, supplied in complete bay packs, consisting of pre-assembled leg-frames with deep shelf support beams and two or three-piece shelf panels.

Leg frames: 2000mm high in 4 depths 320/400/500/600mm
Shelf Assemblies: 4 per pack, 1500mm and 1800mm wide
Adjustment Centres: 33mm pitch
Maximum bay load: 1500kg

1500mm Wide Bays

Initial Bay with 2 Leg-Frames and 4 Shelves		
Depth mm	Order code	UDL per shelf
320	LSP-1503-I	350kg
400	LSP-1504-I	350kg
500	LSP-1505-I	315kg
600	LSP-1506-I	260kg
Extension Bay with 1 Leg-Frame and 4 Shelves		
Depth mm	Order code	UDL per shelf
320	LSP-1503-E	350kg
400	LSP-1504-E	350kg
500	LSP-1505-E	315kg
600	LSP-1506-E	260kg
Extra Shelves		
Depth mm		Order code
320		LSS-1503
400		LSS-1504
500		LSS-1505
600		LSS-1506

1800mm Wide Bays

Initial Bay with 2 Leg-Frames and 4 Shelves		
Depth mm	Order code	UDL per shelf
320	LSP-1803-I	300kg
400	LSP-1804-I	300kg
500	LSP-1805-I	300kg
600	LSP-1806-I	300kg
Extension Bay with 1 Leg-Frame and 4 Shelves		
Depth mm	Order code	UDL per shelf
320	LSP-1803-E	300kg
400	LSP-1804-E	300kg
500	LSP-1805-E	300kg
600	LSP-1806-E	300kg
Extra Shelves		
Depth mm		Order code
320		LSS-1803
400		LSS-1804
500		LSS-1805
600		LSS-1806

Wrist strap bonding points can be supplied to fit to the front of the racks – see page 52

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SILVERLINE SHELVING

SILVERLINE SHELVING

- ● Standard shelving components, assembled with simple tools, to form a strong and adaptable storage system.
- ● The high quality zinc-plated finish provides fully conductive bays that are simple to ground, making the system ideal for use in ESD Protected Areas.
- ● Bare shelves are suitable for the storage of conductive containers.
- ● For sensitive assemblies stored directly on the shelves, dissipative mats can be fitted to control discharge rate and provide physical protection.

Standard Bay Packs

A selection of complete packs with popular shelf sizes, ideal for the storage of standard 600 x 400mm and 400 x 300mm conductive WEZ containers. See pages 84 for WEZ containers.

Open Frames and Backs

Closed Frames and Backs

Description	Shelves	Order Code
Initial Bays with 2 upright frames		
1000 x 1000 x 400	3	SLV-INO-1010-04
1600 x 1000 x 400	4	SLV-INO-1610-04
2100 x 1000 x 400	5	SLV-INO-2110-04
1000 x 1000 x 600	3	SLV-INO-1010-06
1600 x 1000 x 600	4	SLV-INO-1610-06
2100 x 1000 x 600	5	SLV-INO-2110-06
Extension Bays with 1 upright frame		
1000 x 1000 x 400	3	SLV-EXO-1010-04
1600 x 1000 x 400	4	SLV-EXO-1610-04
2100 x 1000 x 400	5	SLV-EXO-2110-04
1000 x 1000 x 600	3	SLV-EXO-1010-06
1600 x 1000 x 600	4	SLV-EXO-1610-06
2100 x 1000 x 600	5	SLV-EXO-2110-06

Description	Shelves	Order Code
Initial Bays with 2 upright frames		
1000 x 1000 x 400	3	SLV-INC-1010-04
1600 x 1000 x 400	4	SLV-INC-1610-04
2100 x 1000 x 400	5	SLV-INC-2110-04
1000 x 1000 x 600	3	SLV-INC-1010-06
1600 x 1000 x 600	4	SLV-INC-1610-06
2100 x 1000 x 600	5	SLV-INC-2110-06
Extension Bays with 1 upright frame		
1000 x 1000 x 400	3	SLV-EXC-1010-04
1600 x 1000 x 400	4	SLV-EXC-1610-04
2100 x 1000 x 400	5	SLV-EXC-2110-04
1000 x 1000 x 600	3	SLV-EXC-1010-06
1600 x 1000 x 600	4	SLV-EXC-1610-06
2100 x 1000 x 600	5	SLV-EXC-2110-06

Shelves
Distributed Load Capacity (kg)

Width (mm)	Depth (mm)			
	300	400	500	600
Unreinforced				
765	270	270	270	200
1000	200	200	200	250
1290	130	130	130	100
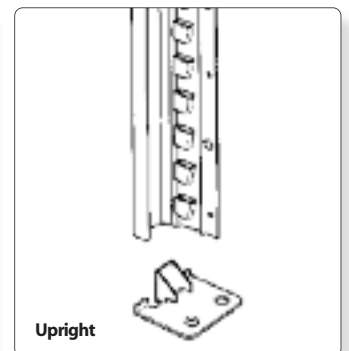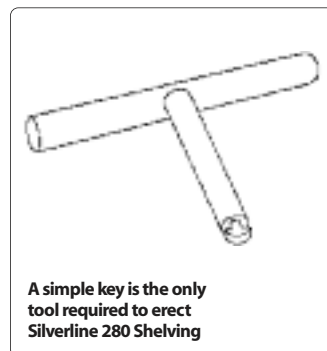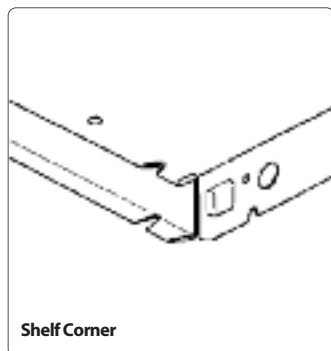
Shelf Corner

A simple key is the only tool required to erect Silverline 280 Shelving

Upright

STATIC SAFE ENVIRONMENTS

PERSONAL GROUNDING MONITORS

EPA TEST EQUIPMENT

IONISATION

WRIST STRAP AND FOOTWEAR TESTING

- The regular checking of personal grounding is a requirement of all ESD protection standards.
- All the instruments shown provide reliable periodic or continuous testing facilities to meet the requirements of BS EN 61340-5-1:2007

Combo Tester

Designed to test wrist straps and footwear at the entrance to an EPA.

Switchable between wrist strap and footwear modes, with Fail Low/Pass/Fail High indication. Battery or mains powered (with adaptor). Incorporates keyhole slots for wall or stand mounting. Supplied with a 10mm stud converter.

AC mains adaptor and power cord to be ordered separately.

Description	Order Code
Combo Tester	CW-99000
Combo Tester with Stand and Footplate	CW-99004
Footplate for Combo Tester	CW-99013
AC Mains Adaptor	CW-99065
UK Power Cord	CW-93010

TECHNICAL INFORMATION: 4
Pass Range: 0.75MΩ - 35MΩ
(Limits adjustable to provide custom range).
Battery: 9V PP3
Mains adaptor: 220V AC

Calibration Box

Used to carry out a functional check on the Combo Tester (CW-90000 and CW-99004) when used at factory-set limits.

This unit is a passive device, requiring no batteries.

Order Code	CW-99090

TECHNICAL INFORMATION:
Low Fail: 0.675MΩ
Low Pass: 0.825MΩ
High Pass: 35MΩ
High Fail: 40MΩ

Continuous Wrist Strap and Workstation Monitors

These instruments provide continuous monitoring of a wrist straps and bench mats during use, reducing ESD damage risk to very low levels. The units are designed for single-wire wrist straps and operate using wave distortion technology, giving instantaneous alarm of wrist strap ground failure. In addition, the units incorporate a resistive monitoring circuit for the bench mat ground.

Jewel® Workstation Continuous Mini-Monitor

A compact unit, mounted on the bench surface using two 10mm studs. 4mm and 10mm parking studs are fitted to ensure a non-alarm state when the operator leaves the workstation. Fitted with audible and visual failure indicators. Requires mains adaptor and power cord, listed separately.

Order Code	CW-99130

TECHNICAL INFORMATION: 4
Uses Wave Distortion Technology to monitor the capacitive impedance of a correctly bonded person/wrist strap combination.
For correct operation of the bench mat function, always use with materials incorporating a conductive layer.

Dual Operator Workstation Continuous Monitor

A dual operator unit for single wire wrist straps, for mounting below a shelf or worksurface, with two satellite socket blocks for fitting up to 2.1m from the monitor. The satellites incorporate a 4mm monitored socket, a 4mm parking stud and a 4mm unmonitored guest socket. Also provides ground monitoring for two worksurfaces. Fitted with audible and visual failure indicators. Supplied with mains adaptor and two wrist strap kits; power cord to be ordered separately.

Description	Order Code
Continuous Monitor	CW-50517
Power Cord	CW-93010

Monitor Calibration Unit

This unit is required to carry out functional tests on the Continuous Monitors CW-99130 and CW-50517 This unit is a passive device, requiring no batteries.

TECHNICAL INFORMATION:
Operator: Switchable Low fail/Pass/Hi fail.
Work Surface: Switchable 10MΩ/100MΩ/500MΩ
Note:
10MΩ is the factory default limit for the CW-50517.
500MΩ is the factory default limit for CW-99130

Order Code	CW-50512

STATIC SAFE ENVIRONMENTS

SENTRY PERSONAL GROUNDING MONITOR

- This equipment is designed to test and record the results of routine wrist strap and footwear checks.
- Normally sited at the entrance to an EPA, it provides a checking procedure which does not rely on operator log sheets, improving control and simplifying system audits.
- Provides various input methods to suit the client's needs.
- All tests are recorded and downloaded for future analysis.

Sentry

ID Input Options:
- Numeric keypad with lock-out option.
- Infrared bar-code reader.
- Magnetic card reader (subject to compatibility tests).

Output Options:
- To a local PC – non-network option.
- Data out via local intranet using TCP/IP protocols (network option).
- Relay operated access control.

Test Functions
- Wrist Strap Pass/Fail.
- Left Foot Pass/Fail.
- Right Foot Pass/Fail.
- Test limits configurable.
- Individual tests selectable in staff list.

Data Download and Staff List Management
- To local PC.
- Standard network point using TCP/IP intranet.
- Multiple Sentry Installation.
- Standard network points using TCP/IP intranet.

Independent tests of wrist strap and footwear, triggered by ID input.

Incorporates battery backup for data integrity.

Description	Order Code
Sentry unit with keypad input only.	SEN-133
Sentry unit with keypad and optical bar code input.	SEN-133-OCR
Sentry unit with keypad input and network interface.	SEN-134
Sentry unit with keypad input, optical bar code input and network interface.	SEN-134-OCR
Dual Footplate with connecting cable.	SEN-412
Keypad Lock (factory fitted)	SEN-410
Verification Module (to carry out function tests on Sentry)	SEN-630
Verification Module with calibration certificate	SEN-630-CC

Site installation and remote support is available on this equipment. Please ask for a quotation.

TECHNICAL INFORMATION:

Footwear Limits: 500 kΩ to 250 MΩ (Low and High Fail configurable)
Wrist Strap Limits: 1 MΩ to 35 MΩ (Low and High Fail configurable)
Accuracy: Worst case - ± 10% between 0.5 MΩ and 100 MΩ
Storage Capacity: Up to 3600 tests using 3 character ID
Staff List Capacity: 1000+ IDs
Test Download: Configurable frequency.
Access Relay Capacity: 50V DC 500mA

Twin Foot Plate

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Web: **www.static-safe.co.uk** (download price list)

RESISTANCE TESTING

Surface Resistance Test Kit

This kit provides the facility to carry out resistance tests on work surfaces, floors, seating and other ESD protective items.

Tests at 10V and 100V, with self-ranging. Measures ambient temperature and humidity at the time of test.

The kit is complete with two 2.27kg, 65mm diameter test electrodes and complies with the requirements of BS EN 61340-5-1:2007.

Description	Order Code
Test Kit Complete with case	CW-99105
Test Meter only	CW-99106
Surface resistivity attachment	CW-99107
Spare Electrode leads	CW-99108
Test Probes only per pair	CW-99109

TECHNICAL INFORMATION:
Test Ranges
10 volt test   103 – 1012 Ω
100 volt test   106 – 1012 Ω
Battery: 2 AA alkaline cells.
Battery life: approx. 1500 measurements

Multi-Range Megohmeter

This instrument provides the facility to carry out resistance checks on work surfaces, floors, seating and other ESD protective items. The instrument is supplied in a carrying case, with test leads and a certificate of calibration (valid for 12 months from the date of first use).

Testing of ESD protective items is normally carried out at 10V for resistances below 1MΩ and at 100V above 1MΩ.

For work surface and floor tests, weighted test probes are required, as illustrated below.

Description	Order Code
Megohmeter with case	MIT-415

TECHNICAL INFORMATION:
Test Voltages – megohm ranges: 10,25,50,100,250,500 V
Maximum indication: 10V – 1GΩ;   100V – 10G GΩ;   500V - 50GΩ
Test Voltages – low resistance ranges: 5 V ± 1V
Continuity: 0.01Ω to 99.9Ω
Resistance: 0.01KΩ to 1MΩ
Battery: 5 x AA 1.5V (NiMH rechargeable can be used)
Battery life: 2200 tests – 5 seconds on/55 seconds off duty cycle
Dimensions: 220 x 92 x 50mm
Weight: 775gm with rubber protective boot

Test probes to BS EN 61340-4-1

Test probes consisting of a 2.27 kg insulated body with a conductive rubber contact pad. Use one probe for resistance to ground (Rg) measurement and two probes for point-to-point surface resistance (Rp) measurement.

Description	Order Code
Test Probes per pair	CW-99109

Extension Test Lead

This lead is essential for floor testing in larger areas where the floor grounding point is some distance from the test locations. Useful when checking ESD grounding of benches back to a remote earth point. The high quality double insulated silicon lead eliminates leakage errors. Supplied on a storage drum with handle. Lead termination - 4mm shrouded right-angle plug; drum termination – 4mm shrouded socket.

Length 50m

Description	Order Code
Extension Lead	EXL-50

STATIC SAFE ENVIRONMENTS

ELECTROSTATIC MEASUREMENT AND ESD TEST KITS

Digital Field Meter

The EVS-2001 is designed to locate and measure static charge potentials on product, people, equipment and packaging. The instrument uses a non-contacting, chopper stabilized field sensor and a ranging light mechanism to ensure correct measurements of electrostatic fields in all areas.
The Fieldmeter is easily zeroed with the turn of a small knob and does not require re-zeroing between measurements. Powered by a 9Volt battery, the EVS-2001 features a conductive, impact-resistant case and a convenient snap-on ground lead to facilitate grounding and increase accuracy.

Description	Order Code
Digital Field Meter	EVS-2001

TECHNICAL INFORMATION:
Display: 3 ½ digits 10mm LCD
Range: 0V to ± 20kV at 25mm separation
Analogue Output: ± 2 volts full scale via miniature jack socket
Accuracy: ± 5% of displayed value

ESD Survey Kits

Basic Kit

The kit contains instruments and test electrodes required to carry out periodic tests and surveys of ESD Protected Areas.
Contains:-
EVS-2001 Digital Field Meter (see above)

MIT-415 Megohmeter (see page 106)

HT-40 Temperature/humidity meter.

CW-99108 test probes (see page 106)

EXL-12 12m extension test lead (see page 106)

Foam lined carrying case.

Description	Order Code
Complete Kit	ESK-101

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- Ionisers are essential for the neutralisation of charges on insulative (non-groundable) items that are essential in a production process.
- When correctly setup and maintained, Charleswater ionisers meet all the performance requirements of BS EN 61340-5-1:2007

Chargebuster Overhead Ioniser

Available as a 3 speed, 3 fan version, this overhead ioniser provides uniform neutralisation performance.

The unit is self-balancing and has an auto-test sequence at power-on.

Description	Dimensions (mm)	Order Code
Chargebuster Ioniser	940 x 165 x 89mm	CW-50681
UK Power cord		CW-93010
Replacement emitter points (pack of 8)		CW-50668
Emitter Tip Point Cleaner (pack of 20)		CW-50658

TECHNICAL INFORMATION:
Operation Mode: 5.5KV steady state DC
Emitters: Machined tungsten
Auto-balance with user adjustment of fine trimmer.
Balance tolerance: ± 20 volts setup at 610mm above charged plate monitor.
Power supply: 220V AC Internal fuse 20 x 5mm 3A time lag.

Critical Environment Ioniser

Fully featured multi-fan overhead ioniser with closed loop electronic balance control and the facility for remote monitoring via a RJ45 data-port.
Incorporates removable emitter cassettes for ease of maintenance and minimum downtime, with a lock-out key to prevent unauthorised adjustments. Two units can be daisy chained to the mains supply to simplify installation. Each fan has a sealed plenum chamber to minimise contamination; suitable for clean room applications.
Balance and fan speed settings are retained on power loss. Includes automatic front panel cleaning indicator.

Emitter Cassette Removal

Description	Dimensions (mm)	Order Code
2 fan model	610 x 150 x 50	CW-92260
4 fan model	1220 x 150 x 50	CW-92261
Replacement emitter cassette (pair)		CW-92262
Replacement filter screen		CW-92327
Replacement emitter pins (pack of 20)		CW-92234
UK Power cord		CW-93010

TECHNICAL INFORMATION:
Operation Mode: 5000V steady state DC
Emitters: Machined tungsten
Balance tolerance: ± 10 volts setup at 610mm above charged plate monitor
Power supply: 220V AC   Internal fuse 20 x 5mm 3A time lag.

Mini Ioniser

Ultra compact bench ioniser with two fan speeds, utilising steady state DC technology with Sense Feedback Control and visual/audible alarms. 24V power.
Size: 133h x 89w x 43d mm

Description	Order Code
Mini Ioniser	CW-50640
UK Power Adaptor	CW-50676
UK Power cord	CW-93010
Replacement emitter points (pack of 8)	CW-50668
Emitter Tip Point Cleaner (pack of 20)	CW-50658

TECHNICAL INFORMATION:
Emitters: Machined tungsten
Balance tolerance: ± 20 volts
Discharge time: <3 sec 1000 to 100V at 300mm

Bench Ioniser

Compact bench ioniser with three fan speeds, utilising steady state DC technology with Sense Feedback Control and visual/audible alarms. An optional Balance Alarm Programmer allows non-default alarm sensitivities to be set. Size: 240h x 150 w x 80d mm

Description	Order Code
Bench Ioniser	CW-92290
UK Power cord	CW-93010
Balance Alarm Programmer	CW-50667
Replacement emitter points (pack of 8)	CW-50668
Emitter Tip Point Cleaner (pack of 20)	CW-50658

TECHNICAL INFORMATION:
Emitters: Machined tungsten
Balance tolerance: ± 5 volts
Discharge time: <1.5 sec 1000 to 100V at 300mm

STATIC SAFE ENVIRONMENTS

STATIC SAFE
ENVIRONMENTS

products and systems to control ESD

STATIC SAFE ENVIRONMENTS

ESD Protection Products and Services

Use the Picture Index on pages 2-8 for a quick overview of our range of products for ESD protection

LATEST PRICE LIST AVAILABLE ON OUR WEBSITE

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Fax: **01384 898577**

Email: **sse@static-safe.co.uk**
Web: **www.static-safe.co.uk**

FLOORING SYSTEMS - ESD Control Solutions

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Neostat LX Linoleum Flooring   page 14

Neostat V-LOK Interlocking Floor Panels   page 14

ADAPTABLE PRODUCTION SYSTEM - Modular and Flexible

APS Modules and Accessories   page 16-22

STATIC SAFE ENVIRONMENTS

STEEL-FRAMED BENCH SYSTEMS - Wide Accessory Range

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SSE

Work Station Kits   page 40

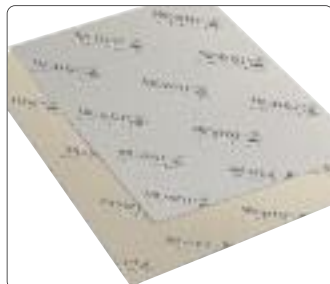**Cushion Matting**   page 43

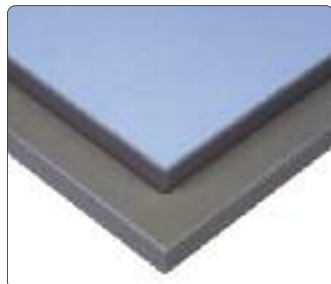**Field Service Kits**   page 41

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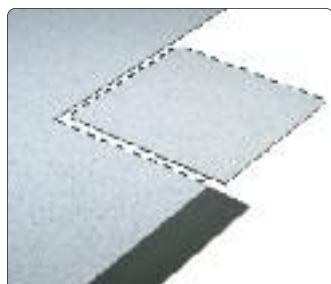
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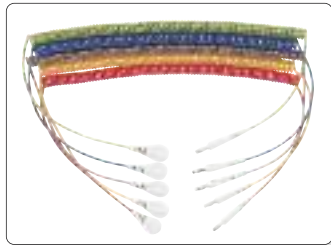
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PRODUCT HANDLING AND STORAGE

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STATIC SAFE ENVIRONMENTS

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