### **ESD RUBBER FLOOR COVERINGS**

#### NON GLUED APPLICATIONS

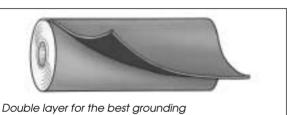
#### Art. 749 DUO

Double layer ESD rubber floor mat designed for non-glued applications (simply lay down and ground). Static dissipative decorated grey top layer and black conductive bottom layer to ensure a safe, fast and effective charges drainage. Excellent resistance to dayly wearout with no visible signs. Available by the roll or cut-on-size.

Colour Thickness	Grey with dot decoration 2.5mm
Roll size	1.90m
Roll weigth	64.5 kg

Electrical features	Standard	Values (Ohm)
Surface resistance	IEC 61340-5-1	5x10° - 5x10°
Resistance to ground	IEC 61340-5-1	5x10° - 5x10°
Charge decay time	IEC61340-5-1 (da1000 a 50V)	<0,5 sec.





#### Why 749 DUO ?

- high temperature resistance
- no noxious outgassing even at higher temperatures
- higher dimensional stability
- simply lay down and ground NO GLUE
- recycle when needed in other areas
- easy maintenance

#### **GLUED APPLICATIONS**

#### Art. 749

749 is the one-layer static dissipative rubber flooring designed for glued installations into ESD protected areas (EPA).

A continous and effective static charges drainage in ensured either from operators and from any dissipative grounded surface.

Entirely made of synthetic rubber, 749 do not generate any noxious outgassing (no Chlorine, Halogens, Cadmium, Formaldeid or Asbestos), is unflammable (class 1 C.S.E. - RF 2/75A and 3/77), withstands high temperatures (over 400°C), is silent (walking noise reduction >=6dB meeting DIN 52210) and is wear resistant (85±5 shore A meeting DIN 53505).

Colour	Grey with scattered decorations
Thickness	2mm
Roll size	1.90 x 10 m (19m²)
Roll weight	58 kg
Tile size	610 x 610 mm

Grey colour standard others on request

### **ESD FEATURES (INSTALLED FLOORING)**

Feature	Standard	Values (Ohm)	
Surface resistance	IEC 61340-5-1	10° - 10°	
Resistance to ground	IEC 61340-5-1	10° - 10°	
Charge decay time	EN 100015-1 (1000V-50V) NFPA 99 (5000V-500V) IEC 61340-5-1	≤ 0,2 sec. ≤ 0,1 sec.	
Surface resistance at 100 V	EOS/ESD \$7.1.1994	10° - 10°	



749 INSTALLATION - Provide 749 rubber floor covering, a solid and perfectly plain underfloor, conductive glue, copper tape grid. Follow our installation procedure in order to create a copper grid and a full glue undelayer to ensure homogeneous grounding on all surface.

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### **ESD BENCH RUBBER MATS**

157 table ESD mat is manufactured with synthetic rubber. Most important features are: resistance to flame, resistance to temperatures over 400°C, resistance to widely used chemicals, no noxious outgassing (PVC free), non porous surface (easy cleansing), low light reflection and high noise absorption. RLX mats are designed to minimize operators stand-up fatigue. Clean room admissible.



#### Art. 157

ESD rubber mat for benches, as beige, grey or light blue colour. Static dissipative on the coloured top and black conductive on the bottom for a safe and fast charges drainage. Available by the roll or cut-onsize.

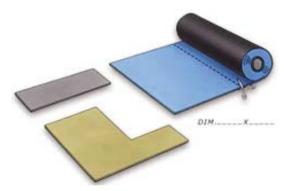
Thickness	2mm
Roll size	1.22x10m (12.22m²)
Roll weigth	36 kg



157 available by the roll

Electrical features	Standard	Values (Ohm)
Surface resistance	IEC 61340-5-1	5x10° - 5x10°
Resistance to ground	IEC 61340-5-1	5x10° - 5x10°
Charge decay time	FTM 101C No. 4046 (5000V - 500V) FTM 101C No. 4046 (5000V - 50V)	<0,009 sec. <0,034 sec.

157 is also available as cut to the desired dimensions in all the three colours.



#### HAND PUNCHING TOOL

#### SPARE SNAPS FOR MAT GROUNDING



Art. 605 HAND/M Male button version.

**ART. 605 HAND/F** Female button version.



Article	Description	
604-F 4	Set of 100 female buttons 4mm	
604-M 7	Set of 100 male buttons 7mm	
604-F 7	Set of 100 female buttons 7mm	
604-M 10 .	Set of 100 male buttons 10mm	
604-F 10	Set of 100 female buttons 10mm	





### **ESD GROUNDING KITS**

#### FOR EASY AND SAFE INSTALLATIONS

Elme offers a complete range of easy-to-install grounding kits for static safe workstations. Available as table or floor kits, they include all necessary tools for the correct installation, following the current standards.

#### BENCH AND FLOORING Art. 157 KIT



The ESD bench and floor mat kits, include all the necessary parts to install a fully equipped ESD workstation. The kits include either 157 benchmats and/or 749 DUO floormat cuts (rounded edges and ESD symbol print) one ONE TOUCH wristband set and the necessary 601 ground cords for the mats (moulded 1 Meg resistor included). The kits are available in different colours and different dimensions. All supplied in a very practical carton box.

Article	Colours	Dim. (mm)
157KIT 4060 BLUE	Kit blue	400x600
157KIT 4060 BEIGE	Kit beige	400x600
157KIT 4060 GREY	Kit grey	400x600
157KIT 6090 BLUE	Kit blue	600x900
157KIT 6090 BEIGE	Kit beige	600x900
157KIT 6090 GREY	Kit grey	600x900
157KIT 60120 BLUE	Kit blue	600x1200
157KIT 60120 BEIGE	Kit beige	600x1200
157KIT 60120 GREY	Kit grey	600x1200

#### **BENCHMAT GROUNDING KIT**

#### Art. 157+749 DUO KIT

ESD benchmat and flooring kit includes one benchmat Kit 157 6090 colour grey and one floormat 749 DUO KIT with two separate grounding cords.



### BENCH AND FLOORMAT GROUNDING KIT

#### Art. 749 DUO KIT

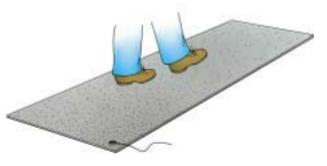
ESD floor mat kit 1200x1900mm includes one 749 DUO floor mat cut with a 10mm ground stud and one 601 ground cord.

#### FLOORMAT ONLY GROUNDING KIT

#### Art. 749 DUO RUNNER KIT

Flooring runner kit for passage areas (personnell and trolleys).

Includes one cut art. 749 DUO size 950x3000mm, ground cord art. 601 (1 meg resistor) and 2 ground male snaps.



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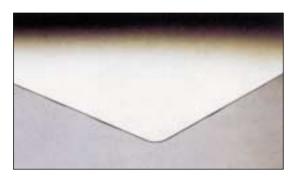
### LA-2 DISSIPATIVE HARD LAMINATE & BENCHES

# HIGH PERFORMANCE DISSIPATIVE HARD LAMINATE AND REPLACEMENT TABLE TOPS

LA-2 static dissipative hard laminated surface is the most durable ESD safe solution for bench tops and shelves in your electrostatic protected area: a total and no sparking drainage of static charges to the ground eliminates ESD danger on sensitive components.

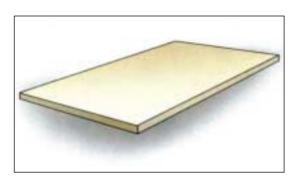
LA-2 features high resistance to wear-out, abrasion, hot solder melt, humidity and every day use.

FEATURES	BENEFITS
Dissipative surface	Suitable for most
(10°-10° Ohm - res. vol.)	sensitive components
1.2 mm. thickness	Withstands abrasion
Cuts at customer's need	Manufacture of
	replacement shelves
	and workbenches
	any size
Resistant to chemical agents,	Duration in time
RH and hot solder melt	
Non reflecting beige/grey	Operator's eyes
colour	advantage



LA-2 laminate sheet is available 1) sheet size 3050x1350 mm

2) cuts on customer's size



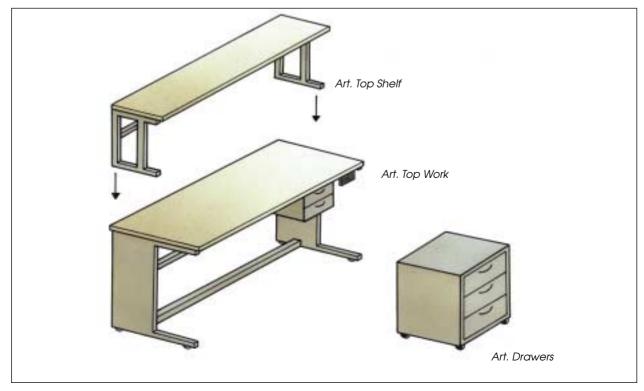
LA-2/TE replacement table tops are available at customer's requested sizes. Chipboards thickness: 22, 30, 40 mm.

#### **ESD WORKBENCH**

#### Art. TOP WORK

Standard work bench with choice of drawers, drawer cabinet, upper shelf. The strong metal structure is light grey epoxy painted, to prevent from scratches. The tops are laminated with LA/2 static dissipative hard laminate.

Dimensions/mm	H x W x L
Art. TOP WORK 1	Dim. 800 x 800 x 1500
Art. TOP WORK 2	Dim. 800 x 800 x 1800
Art. TOP SHELF 1	Dim. 600 x 400 x 1500
Art. TOP SHELF 2	Dim. 600 x 400 x 1800





### E.P.A. GROUNDING CORDS AND ACCESSORIES

Art. 601		Straight wire 3m, 1MOhm resistor, from female protected button 10mm to ring end 5mm
Art. 601/BANANA		Ground cord 3m, 1MOhm resistor from banana 4mm to ring end 5mm
Art. 602/BOTTONE		Ground cord 2m, button female 10mm - button female 10mm-no resistor
Art. 603/20 Art. 603/32		20cm connection cord, 2 protected button female 10mm-no resistor 32cm connection cord, 2 protected button female 10mm-no resistor
Art. 604/M10 Art. 604/F10	<b>66</b>	Set of 100 push buttons diam. 10mm (50 male+50 female)
Art. 606/10F Art. 606/10M		Connection banana 4mm, w/10mm, or 7mm female pushbuttons
Art. 607 COCCO	(I) 5000	Crocodile 1/4" for banana 4mm
Art. 608		Coiled wire 3m, 1 MOhm resistor, from female protected button 10mm to banana 4mm + croco
Art. CPG 900 NEW		Earth wire 3.6m, with 2 banana 4mm insertion, 1 MOhm.



#### MULTIPLE PROTECTED BOND

Art. 610

Protected connector includes 1 female 10mm snap, 1 male 10mm snap and 1 banana 4mm snap.

Designed for grounding connection.



#### **GROUNDING POINT**

Art. CPG 4020

The CPG 4020 (wired to ground by a 2m ground cord) is designed for applications where mains are inaccessible. One M5 post is placed in front for grounding. Dim. 40mm x 45mm x 12mm. ESD symbol.

#### COMMON POINT TO GROUND

CPG 1020 Serie

CPG 1020 is a double wristband earth bonding point suitable for any kind of workstation. Easily mountable under the table tops, but also on any metal frame on equipments. **CPG 1020** is available with different combinations of plugs and rest button when the cord is disconnected. Standard version:

**Art. CPG 1020:** 2 banana plugs 4 mm, 2 male buttons 10 mm, 2 male buttons 4 mm, dimensions 80x38x30 mm.





### **EARTH SAFE PLUG**

Art. CPG 2000

Adaptor safety plug designed for ESD equipment, including 1 meg safety resistor and LED: the green LED advises if the earth connection is ok. If the earth is disconnected the LED turns off and a buzzer sounds.

Connections through a 10 mm pressbutton and eventually an adaptor for 4 mm banana plug.



#### **EUROPEAN EARTH BONDING POINTS**

Serie CPG 3000

Designed for direct connection to mains earth facilities into the E.P.A. of ground cords and instru-ments. Two standard models available, both with 1

Mohm safety resistor included.

Art. CPG 3000 10 M 3x 10 mm male pressbuttons,
Schuko plug

Art. CPG 3000 10M/1R

2x 10 mm male pressbuttons, 1x4mm M5 ring receptacle, Schuko plug

Other plugs sortments on request, subject to minimum quantites, please ask.

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Art. VERA K1 - Seat height 450 - 580 mm, weight 12 kg, non-flammable stainless steel-free fabric

## ESD CHAIRS VERA K

meet EN 1335

meet IEC 61340-5-1



Art. VERA K2 - Seat height 650 - 780 mm, weight 13.8 kg, non-flammable stainless steel-free fabric

#### General informations

Completely re-designed by ELME with a larger and more comfortable backrest, protected and larger (more stable) base, VERA K ESD chairs provide continuous and safe drainage of static charges to ground into EPA. VERA K chairs meet ESD std IEC 61340-5-1. Lined with the special metal-free, soft, strong & durable flame-resistant ESD fabric, these chairs feature ergonomic seating, adjustable backrest (permanent contact), gas elevation and rugged metal structure. Two heights available, choice of feet or wheels.

• the structure: the revised structure follows EN1335 European standards on ergonomic and safe seating.

- the structure: the revised structure follows EN1335 European standards on ergonomic and safe seating. The shape of the backrest is long up on the back of the operator. The seat is also designed to let the body stay always in the correct position. Both seat and backrest are cushioned with extra soft lining.
- the adjustment: the backrest follows the back of the operator up and down and back and forth with only smooth movement. Gas elevation allows quick seat adjustment.
  - the resistance to flame: the textile used is unflammable, therefore withstanding also burns of irons, cigarettes or others and improving the durability of the chair.
  - no metal in the fabric: this is to increase safety, preventing from short circuits between the fabric and the operator should a live conductor touch the fabric.
  - the conductivity of the back plastic panel: the rear of the backrest has a plastic cover which is totally ESD safe.
  - self braking wheels (standard): as standard Elme VERA K chairs offer self

braking wheels for additional safety. The wheels are stopped when the chair is unloaded, preventing from accident.

### Features of VERA K chairs Surf. resistance fabric IEC 61340-5-1

 Resistance to ground
 IEC 61340-5-1
 0.5 < R < 1 Mohm</th>

 Fabic decay time
 IEC 61340-5-1
 < 0.5 sec</td>

Fabric Non flammable CSERF1 1/75/A Classe 1 CSERF 3/77 Classe 1

## ESD SEAT COVERS FOR STANDARD LAB CHAIRS

#### Art. SIT-COVER

Strong grey static-dissipative fabric seat-covers

designed to convert standard laboratory chairs into ESD safe ones.

Easily adjustable by means of a lace system SIT-COVER fits correctly most kinds of chairs.

SIT-COVER includes backrest and seat covers, connection and grounding cords (w/1MOhm resistor). SIT-COVER is a competitive alternative to ESD chairs.



# CONDUCTIVE SPARE CASTORS AND GLIDERS



Art. VERA ROT Art. VERA FOOT

0.5 < R < 0.8 Mohm

A v a i l a b l e spare conductive castors and gliders for ESD chairs. Resistance to ground 10<sup>3</sup> Ohm.

## BIG ADHESIVE SIGNES FOR FLOORINGS AND WALLS

#### Art. EAL 3232

These round flexible self-adhesive floor signs are designed to be placed on EPA floorings and walls where extra-ESD attention is required.

Excellent adhesion and wearout resistance (ultrastrong PVC).

Minimized removal residues.

Yellow colour, with ESD symbol, wearout resistant to personnel and trolleys.

Diam. 32 cm



### **ESD WASTE PAPER BASKET**

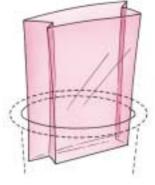
#### Art. BASKET

Conductive waste paper baskets available in two different sizes.

Features	Basket 13	Basket 36
Height	275mm	385mm
Base diam.	218mm	310mm
Opening diam.	290mm	415mm
Capacity	13lt	36lt



Art. SA-BASKET Waste paper basket antistatic liner bags, available for both dimensions.



## ADHESIVE TAPE TO LIMIT EPA BOUNDARIES

#### Art. REA EPA

Self-adhesive floor tape designed to visibly mark the borders of your EPA. Strong adhesion and easy removal with minimized residues in case of area transfer. Lettering protected from abrasion. International ESD symbol included.

#### **FEATURES**

Colour	Yellow
Width	50 mm
Length of the roll	33 mm



## ESD LABELS AND WARNING SIGNS

ESD warning adhesive labels and wall signs available in different sizes meeting IEC 61340-5-1 requirements. Other labels on request.



Art. EAS 006006 - Adhesive label - 6x6 mm.



**Art. EAS 0205** - Adhesive label 21x50 mm.



Art. EAS 0408 - Adhesive label 39x81 mm.



**Art. EAS 1025** - Adhesive sign 102x254 mm.



**Art. EAL 3060**Rigid sign
580x330 mm.





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### **ESD PAINTS AND TREATMENTS**

#### FOR FLOORINGS AND BENCHTOPS

ESD floor paints and ESD floor treatments (such as cleaners or floor finishes) are price competitive alternatives to floor mats and coverings. Floor paints are indicated into warehouses, or large plants, or also where rubber coverings are unsuitable, while floor treatments have a lower impact on the environment and require standard maintenance procedures.

#### **ESD PAINTS**

#### Art. 5600

Static dissipative one-part latex (urethane enhanced) grey floor coating paint for general use into the E.P.A. CE 5600 may be used also for cabinets, walls racks and other surfaces. Environmentally friendly (water based - no amines - no solvents), easy maintenance and low cost (approximate coverage 6m<sup>2</sup> per liter).

Water based, static dissipative, two-parts floor coating, highest adhesion, best resistance to abrasion, flame retarding action, designed specifically for E.P.A. environments. CE 5800 generates a glossy, environmentally friendly (low VOCs), safe ESD flooring with low maintenance and costs (approximate coverage 6m<sup>2</sup> per liter).

#### Art. 5700 (Primer)

Prepares porous surfaces to the treatments.



### **ESD BENCH CLEANER**

### **EPACLEANER**

Solvent detergent designed for the maintenance of workstations instde E.P.A.

Minimizes accumulations of static charges and does not leave residues (doeas not coantain). ldeakky designed for rubber, plastics and metals. 1 It bottles.





#### **ESD WAXES AND CLEANERS**

#### Art. E-WAX

Specific treatment for static dissipative floorings. High gloss, low VOC emissions (acid. alkali and ammonia free) water based, designed for specific usage into ESD protected areas (E.P.A.).

Lowest maintenance costs, coverage 25m² per liter (approx.)

### Art. E-CLEAN

Specific cleaner for static dissipative floorings into electrostatic protected production areas (E.P.A.). The application does not alter the dissipative features, protecting at the same time the flooring from dirt coming from high passage of trolleys and personnel. Does not leave residues.

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#### MAINTENANCE CLEANING WIPER

#### Art. MULTIWIPE

Microfibre general cleaning wiper designed for floorings, benchtops and shelves, metal parts, textiles and carpets etc. Usage: wet and wringed out, to clean - dry to remove dust. Material: polyester (70%) and polyamide (30%). Liquid absorption: 289.4% (distilled water). Dimensions: 320x320mm. Maintenance: was with soap, any temperature water (no bleaching).



**ESD SAFE VACUUM CLEANER** Art. **ASPIRO** ESD safe vacuum cleaner for electrostatic protected areas. Aspiro is available with a full range of accessories for the different cleaning operations.

Art. ASPIRO Standard ABS housing Art. ASPIRO E As above with electronic power output adj. Art. ASPIRO S Conductive PP housing Art. ASPIRO SE As above with electronic power output adj.

Please ask for full accessories list.

500W, 104 - 106 Ohms surface resi-

stance, 6 mtrs power Shucko plug cord, 2.1 kg.



#### FIELD SERVICE KIT

#### Art. KAS 9000

Technicians now can operate safely in uncontrolled conditions using KAS 9000 field service kit. Unfold the static dissipative mat and connect it to the ground or to the station. Then wear the wrist band. Only at this time you may touch your P.C. board. KAS 9000 has a wide pocket where it is possible to place P.C. board and tools.

Colour Surface resistance **Dimensions** 

blue/blue 3x108 Ohm (IEC 61340-5-1) 600x600 (open mat 600 x 900 mm)



#### **ESD STEP STOOL**

#### Art. GABEL

GABEL is made of unbreakable conductive polypropylene (ca. 108). Despite his low weight, GABEL is unmovable when loaded with 5 kg. up, because of a thick rubber ring and suspended castors. Colour: yellow



Height unloaded: 435 mm

Step up to reach higher shelves

#### **ESD CURTAINS**

#### Art. 9290 BLUE

Vinyl covered fabrics for use as equipment covers, clean rooms and production area ESD Curtains. Available as coloured dissipative layer and black conductive layer.

Colour blue/black Resistance: 10<sup>6</sup>-10<sup>10</sup> Ohms 10<sup>3</sup>-10<sup>5</sup> Ohms colored layer black layer **Roll lenght** 91.44 m Roll width 138 cm Roll weight 54.5 kg



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### **ESD WRISTBANDS**

#### COMFORTABLE AND ANTI-ALLERGENIC

Wristbands and ground cords are mandatory in all E.P.A. environments. Our program includes high quality, anti allergenic, comfortable and durable wristbands, with a selection of PUR High Grade ground cords for longer durability, all including safety 1 Mohm resistors.



#### Art. ONE TOUCH

Anti-allergenic adjustable elasticized cloth wrist-band. The unique easy fastening transparent buckle allows adjustment and release by pulling the loose band. No colourants, no sharp edges no metals. Alleray free.

#### Art. ONE TOUCH BAND/4

Wrist band with 4 mm male snap

#### Art. ONE TOUCH BAND/10

Wrist band with 10 mm male snap

ONE TOUCH, the newly designed ESD wrist band, outperforms all existing wristbands on the market due to the exclusive design (no sharp edges), the absence of colourants (no markings left on the skin) and the curved anatomic buckle.

The extraordinarily soft elastic band is insulative in the outside and conductive in the inside (by means of a special anti allergic fibre). ONE TOUCH allows a fast and fixed adjustament on any wrist size and a quick release in a way that the elastic band will not be stressed and therefore will last longer in time.



One simple touch to fasten



One quick touch to release

## VELCRO ADJUSTABLE CLOTH BAND

#### Art. STRAPPO

Anti allergenic velcro cloth wristband.

Easy adjustment, allergy free, plastic and metal free. Visible ESD symbol.

Custom marking available, please ask.

#### Art. STRAPPO 4

4mm male snap version.

#### Art. STRAPPO 10

10mm male snap version.

