



Dark Blue

Disclaimer:

All statements, technical data, and recommendations contained herein are based upon tests we believe to be reliable. However, the accuracy or completeness thereof is not guaranteed. The proper and correct applications of products and data is the responsibility of the user. Statements or recommendations not contained herein shall have no force or effect unless embodied in a written agreement signed by authorized officers of Charleswater.

Roll Stock Item Numbers

Size	Dark Blue
1.5mm x 0.61m x 15.2m	80160
1.5mm x 1.22m x 15.2m	80163

Hardware is not included with rolls.

Grounding Intervals for ESD Mats

Sufficient ground cords should be used to reliably meet EN 61340-5-1 Table 3 less than 1 x 10E9 ohms for working surfaces. An industry recommendation has been that continuous runs of ESD matting should be grounded at 3 meter intervals to allow proper charge decay rates with each individual ESD mat should be grounded with ground snap located no further than 1.5 meters from either end.

Tolerances:
 Width ± 6.35mm
 Length ± 6.35mm every 1 linear foot of running material.

Description:

Statfree B2™ meets the working surface limits of EN 61340-5-1 of < 1 x 10E9 ohms. A variety of standard size mats are provided for ESD workstations, shelves, trolleys or cafeteria-style trays in an ESD Protected Area.

Statfree B2 is designed for the dissipative blue side to be used as the top working surface meeting the upper limit requirement and lower limit recommendation of EN 61340-5-1 Edition 1.0 2007-08 Table 3

The black side of Statfree B2 is more conductive and provides a reliable path to ground which makes it compatible with continuous or constant monitors.

Statfree B2™ has excellent colour stability, durability, and is non-humidity dependent.

Statfree B2™ is manufactured without any ozone depleting substances, and in accordance with the Montreal Protocol.

Electrical Properties:

Property	Test Method	Value
RTG Resistance:	IEC 61340-2-3	10E6 - 10E8 ohms
RTT Resistance:	IEC 61340-2-3	10E6 - 10E8 ohms
RTT Resistance: (Black side)	IEC 61340-2-3	<10E6 ohms

Electrical Properties are not humidity dependent meeting EN 61340-5-1 limit < 1 x 19E9 ohms tested at 12% and 50% relative humidity per IEC 61340-2-3.

Look for the Statfree® brand on Charleswater ESD matting. All Charleswater mat top kits are permanently marked for your protection and auditing purposes.

Specifications:

Construction: Engineered thermoplastic thermally fused
 Thickness: 1.5mm, nominal ±10%
 Texture:* Top blue side light embossed
 Colours:* Dark Blue (top side), Black (bottom side)
 Hardness: 80 shore A (ASTM D-2240), ±5
 Wear Resistance: Negligible weight loss (750 cycles, Taber CS-17 Method)

*Colour, texture, and gauge may vary between lots and mills

Grounding: This material must be properly grounded for optimum electrical performance. See for Technical Bulletin [PPE-5025.E](#) for mat grounding instructions.

Cleaning: For optimum electrical performance, surface must be cleaned regularly using an ESD mat cleaner. We suggest using our Reztore™ Surface & Mat Cleaner Item #71019 or Static-Wipes Item #71050. Do not use cleaners that are not specifically designed for ESD control use. As they can contain chemicals and/or leave residue that will alter the ESD and physical properties.

Limited Warranty:
 Charleswater warrants for one year that Statfree® matting products will be free of defects in materials and workmanship and will guarantee dissipative/conductive mat properties for the life of the mat. Damage to matting caused by misuse of any kind, including using inappropriate cleaners is not covered by Charleswater Limited Warranty.

RoHS Compliance Statement
 None of the following materials are intentionally added in manufacturing this product: lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB) or polybrominated diphenyl ethers (PBDE) as outlined in the Directive 2002/95/EC Article 4.1. See Charleswater letter on-line at [Charleswater.co.uk](#).

Matting materials have a tendency to shrink slightly when first unrolled. In applications where length is critical, allow the material to relax for at least 4 hours before cutting to size. Always trim with a sharp knife or razor blade.



Specifications and procedures subject to change without notice

STATFREE B2™ DUAL LAYER VINYL ESD MATTING, 1.5mm thickness



CHARLESWATER EUROPE LTD.
 UNIT 17. MILLBROOK BUSINESS PARK, SYBRON WAY
 CROWBOROUGH, EAST SUSSEX TN6 3JZ UNITED KINGDOM
 PHONE: 00 44 (0) 1892-665313, FAX: 00 44 (0) 1892-668838
 INTERNET: www.Charleswater.co.uk

MATERIAL STATFREE B2™
 DRAWING PME-B2

DATE:
 June
 2010