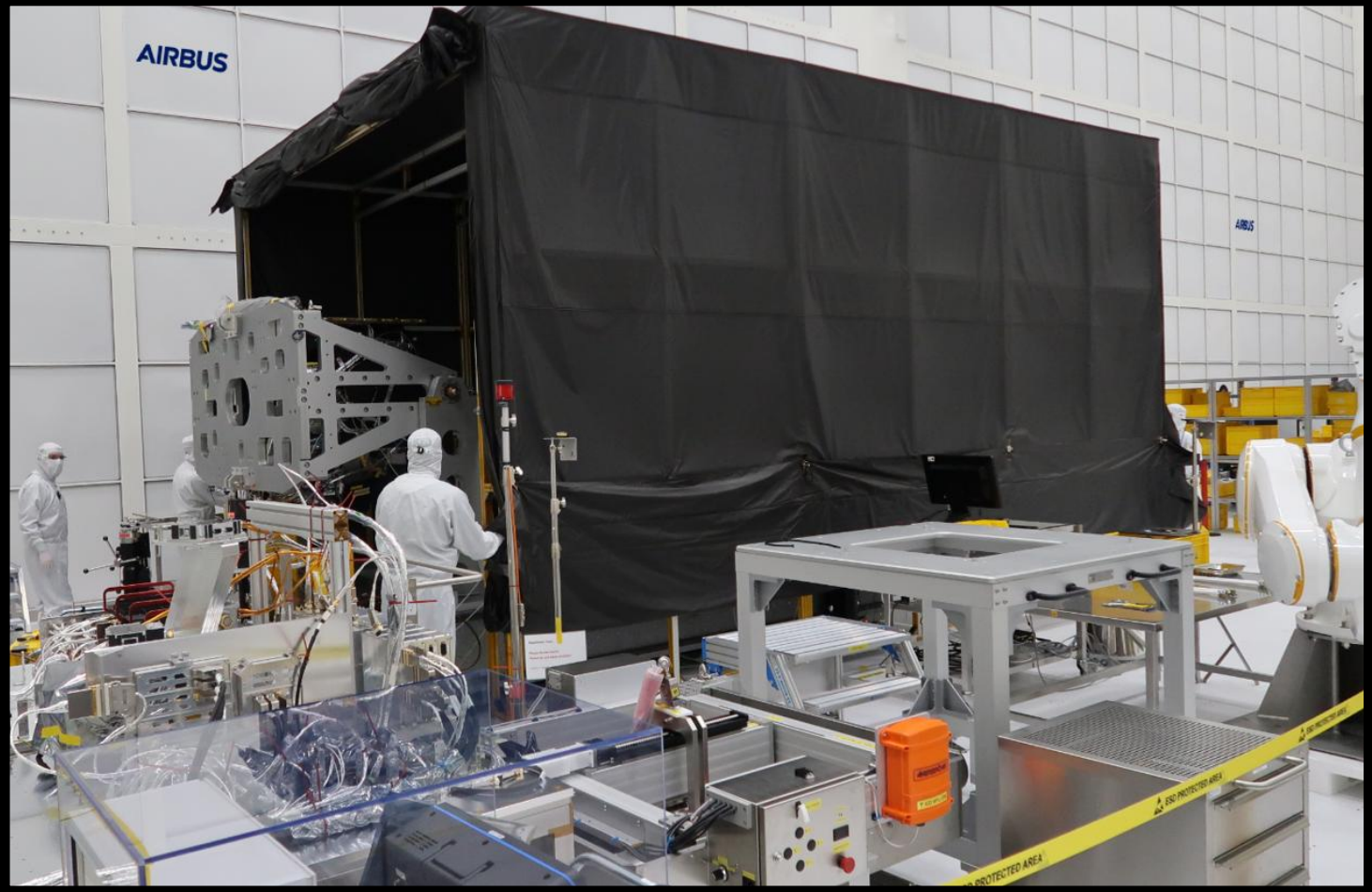


shieldex

RF Shielded Enclosures for the
áerospace industry

PRESENTATION

COMPANY PROFILE

- Founded in 1978 – 46 years of experience in the metallization of textiles
- Experts in the manufacture of RF Shielded Enclosures for over 20 years
- Supplier of RF Shielded Enclosures in the aerospace sector for more than 15 years
- Clean Room Compatible up to ISO 5
- Double-use systems: electromagnetic shielding & blackout room
- Headquater and production site in Bremen, Germany
- Second production site and warehouse in New York State, USA.
- Representatives and field offices in more then 15 countries

PRODUCTS - OVERVIEW

Fibers & Yarns

Monofilaments

Multifilaments

Coated

Fibers

Fabrics

Woven

Non Woven

Knitted

Solutions

Shielding Pouches

Hygienic Gloves

Copper Tape

RF-Shielded-Enclosure

Shielding Curtain

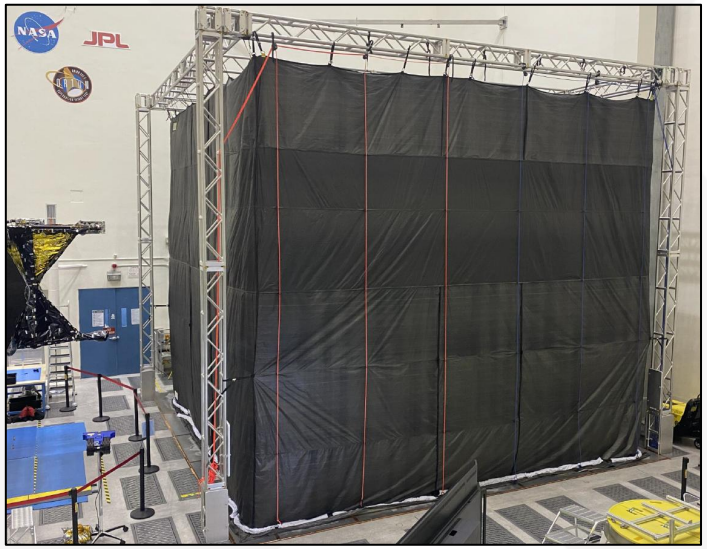
Hygienic Cloth

shieldex

SHIELDEX RF-ENCLOSURES

Our Shieldex® RF shielding enclosures are the best choice for laboratory testing and measurements. Our enclosures are portable and can be setup or taken down without any effort in a short time.

Technical Specification



Series
T-Series: Table Top, 752 x 1362 x 752mm (LxWxH)
P-Series: Shielding Enclosure, 2390 x 2390 x 2300mm (LxWxH)
C-Series: Customised Shielding Enclosure.
We manufacture according to your requirements.

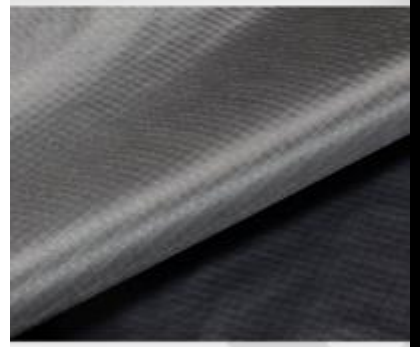
Description of material
Ag/Cu/Ni/Sn plated Nylon fabrics
Double or triple layer

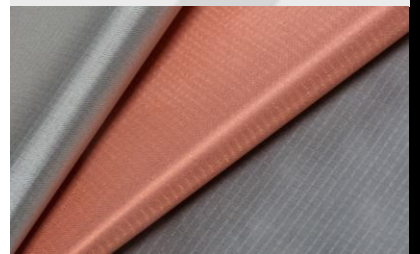
Shielding effectiveness
Average up to 95 dB from 0.03 - 40 GHz
Tested to IEEE 299/2006 & MIL-STD-285

Temperature range
- 30 °C to 90 °C

Additional options
Inftlatable frames, removable I/O Panels (power & data), ventilation system, cable sleeves, waveguides, light, camera, absorber cardboards, attachment to external HVAC units, dividers wall, transportation case, installation service

1
EMC
SHIELDING





shieldex

SHIELDEX RF-ENCLOSURES
QUALITY CHARACTERISTICS

1 **Made in Germany & USA**
Manufacturer of the tents, is also the manufacturer of the used fabrics and components. Two production sites.

2 **Cleanroom compatible (ISO 5)**
We have realised RF Shielded Enclosures in the cleanroom up to ISO 5

3 **Electromagnetic and light shielding**
Double use of the system. We can ensure an electromagnetically interference-free environment and a blackout free room - all with one system.

4 **Only premium products in our solutions**
We use only our best fabrics, yarns and components in our shielding solutions.

5 **Service orientation**
With Shieldex you don't just buy a product, you buy a part of a service-oriented premium manufacturer.

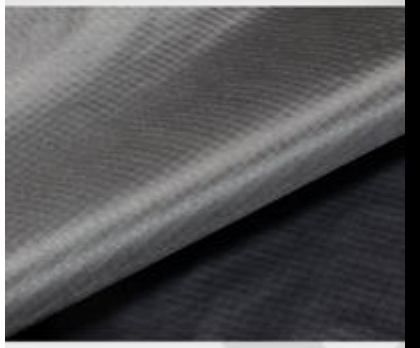
6 **Certified measurement results**
by an external laboratory for the tents, not only for the fabrics incl. balancing the weak points.

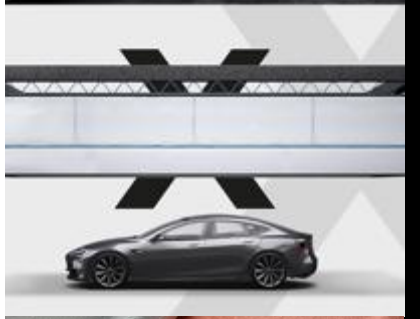
7 **High performance (0.03 to 40 GHz)**
Shielding Effectiveness: up to 95 dB
Interference immunity: 600 Volt/Meter

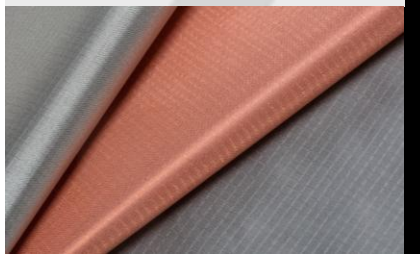
8 **Secured supply chain**
We source our raw material exclusively in Europe and the USA.

9 **Customized EMC Enclosures**
We manufacture according to the requirements of our customers custom-made solutions.

1
EMC
SHIELDING







shieldex

SHIELDEX RF-ENCLOSURES

Standard sizes, for an uncomplicated start to pre-compliance testing. A table top enclosure and a walk-in enclosure. The configuration of cable access and ventilation is customised.

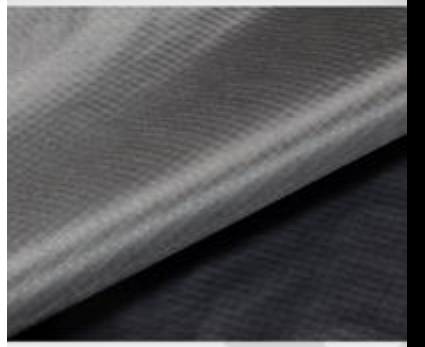
T-Series: 752 x 1362 x 752mm (LxWxH)*

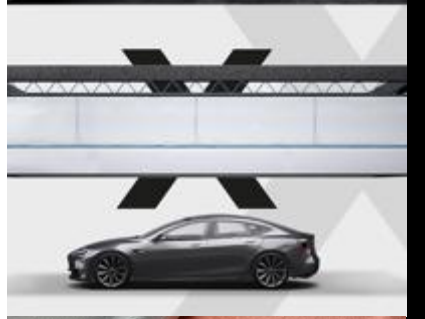
P-Series: 2390 x 2390 x 2300mm (LxWxH)*

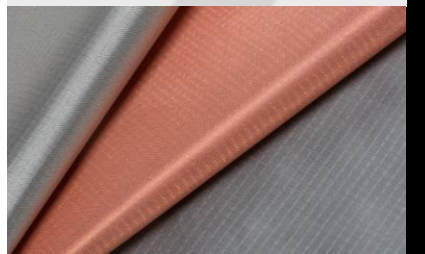
*Frame size

1

EMC SHIELDING



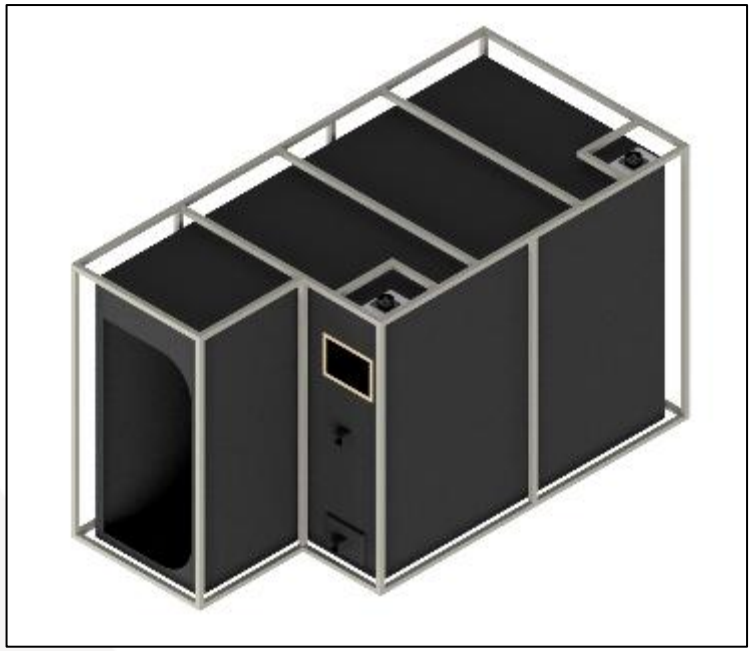




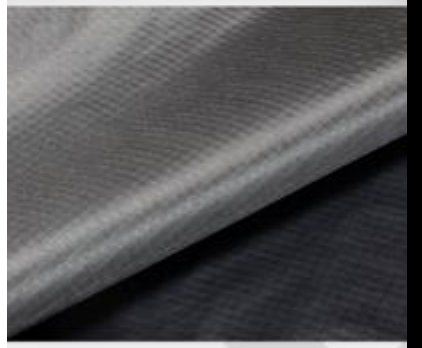
shieldex

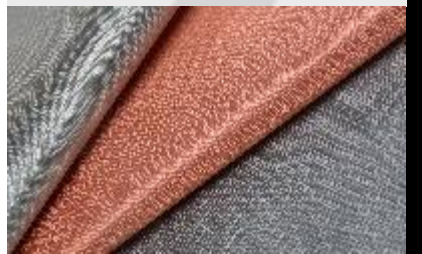
SHIELDEX RF-ENCLOSURES

C-Series with ante-chamber / foyer: In IT forensics & industry, a solution is usually required that includes an antechamber, ventilation and customized IO Panels.



1
EMC
SHIELDING

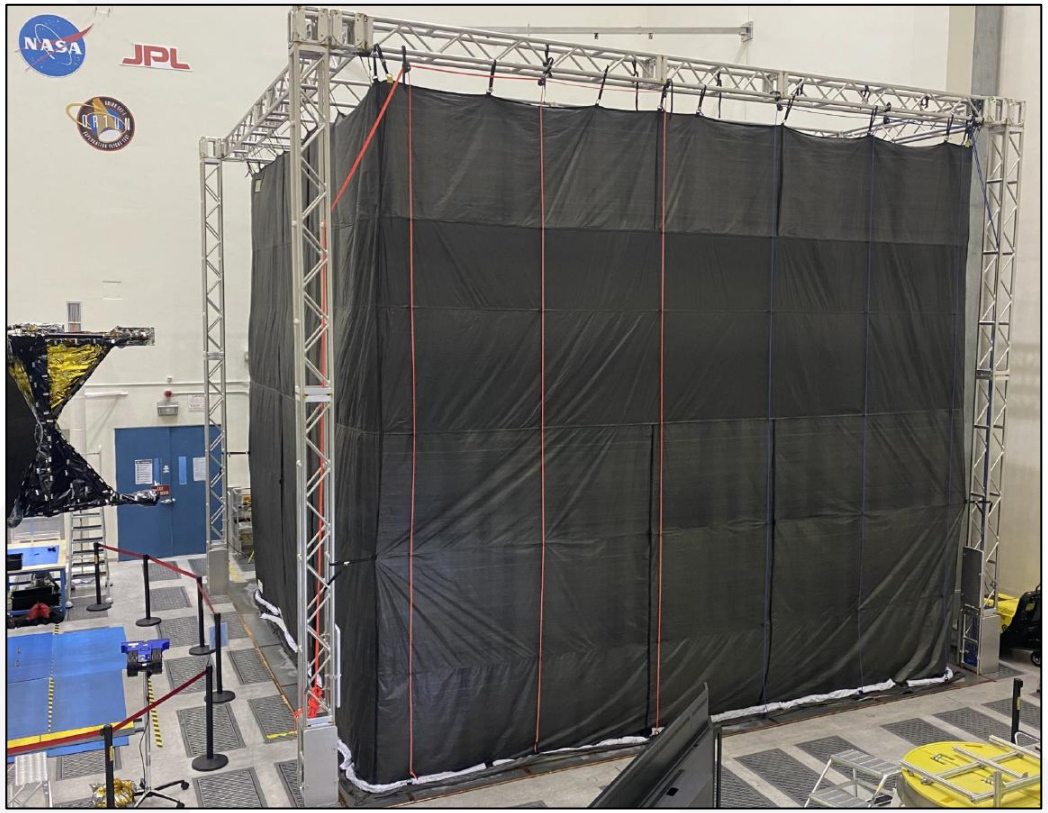


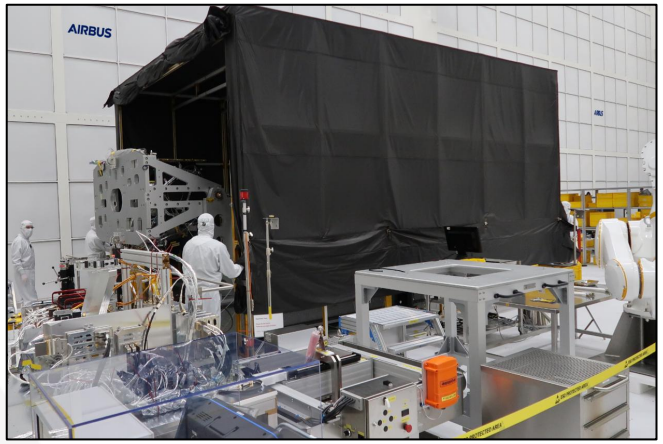


shieldex

CUSTOMIZED SHIELDEX RF-ENCLOSURES FOR THE AEROSPACE INDUSTRY

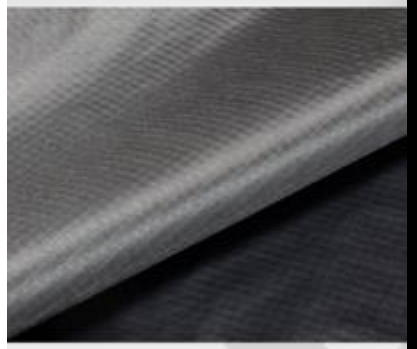
Large-scale projects with different construction in suspension and opening mechanisms.

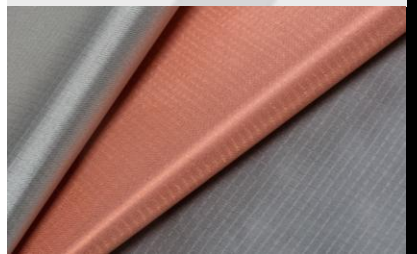




1

EMC SHIELDING





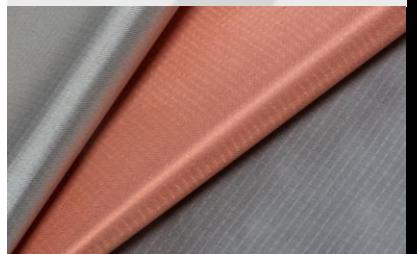
shieldex

CUSTOMIZED SHIELDEX RF-ENCLOSURES FOR THE AEROSPACE INDUSTRY

Large-scale projects with different construction in suspension and opening mechanisms.

1

EMC
SHIELDING

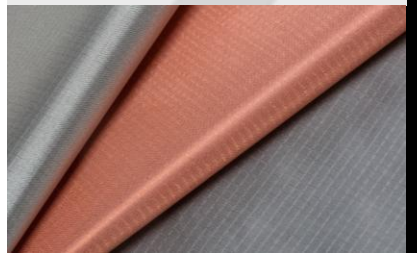


shieldex

CUSTOMIZED SHIELDEX RF-ENCLOSURES FOR THE AEROSPACE INDUSTRY

Large-scale projects with different construction in suspension and opening mechanisms.

1
EMC
SHIELDING



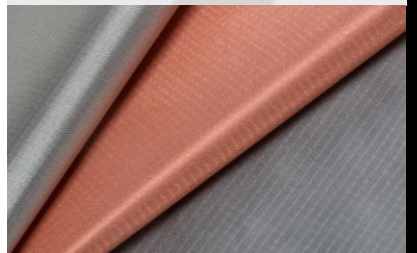
shieldex

CUSTOMIZED SHIELDEX RF-ENCLOSURES FOR THE AEROSPACE INDUSTRY

Large-scale projects with different construction in suspension and opening mechanisms.

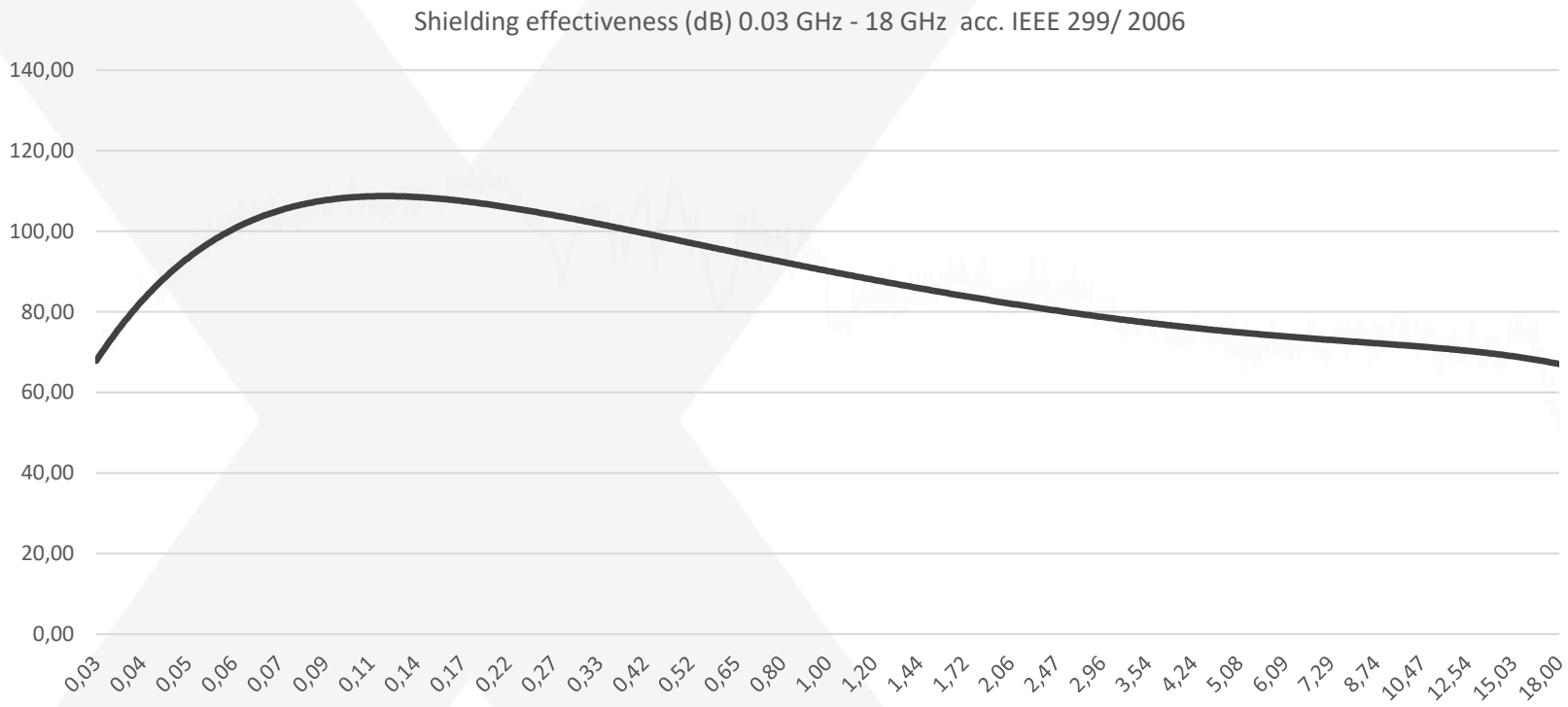
1

EMC SHIELDING



shieldex

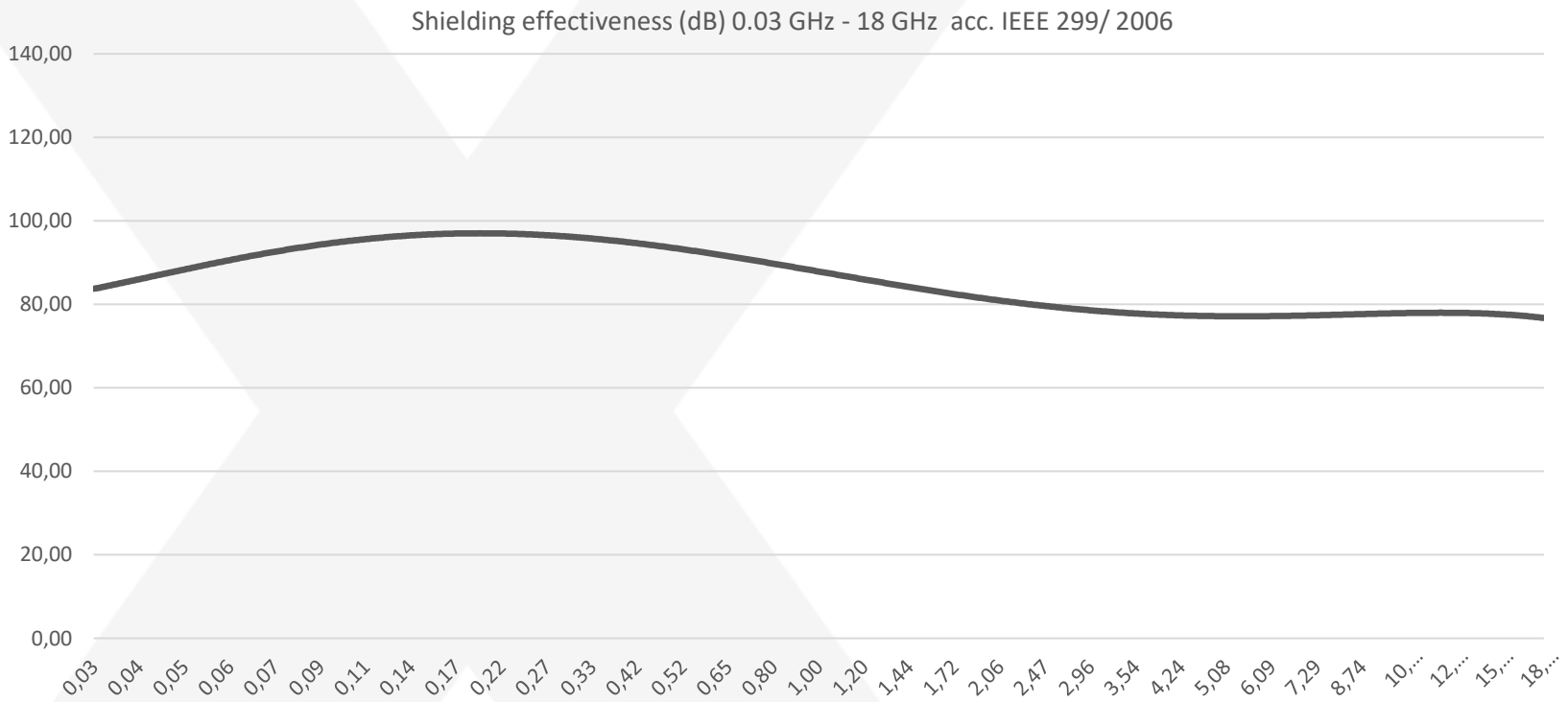
Shieldex RF-Enclosure – Table Top: Entire DUT



200 MHz bis 2 GHz	93,87
2 GHz bis 5 GHz	79,37
5 GHz bis 16 GHz	70,57
0.2 GHZ bis 16 GHz	84,42

shieldex

Shieldex RF-Enclosure – Person Tent: Entire DUT



200 MHz bis 2 GHz	97,98
2 GHz bis 5 GHz	77,26
5 GHz bis 16 GHz	80,11
0.2 GHZ bis 16 GHz	84,48

shieldex

SHIELDEX TEST RESULTS

SHIELDEX SE Test Results for Customized Enclosure (Bottomless)

Customized Series 5-sided, double layer; bottomless portable RF shielded enclosure. Size: 8000x3500x4000mm (LxWxH); with standard entry door on front wall and Power cable entry sleeves on left wall; PCRCB12 Removable I/O bulkhead with(1)USB, (1)RJ45, (2)BNC connectors on the left wall. Mv6x6k double ventilation kit with fan assemblies with fan on the back&front wall. FLPW Perimeter Floor weight kit

Polarity	Frequency	Collect Ambient Level	Calibration Level	Shielded Measurement	Shielding Effectivness	Average SE of Horizontal & Vertical	Average SE	Total Average SE
(H or V)	(GHz)	(dBuv)	(dBuv)	(dBuv)	(dBuv)	(dBuv)	(dBuv)	(dBuv)
V	2.4	68.51	102.77	9.41	93.36	94	90	90
H		72.64	97.92	2.32	95.61			
V	5.7	63.83	102.76	10.31	92.45	86		
H		62.99	90.76	10.52	80.24			

shieldex

shieldex

CONTACT US

Statex Produktions- und Vertriebs GmbH

Kleiner Ort 9-11 , 28357 Bremen
Germany

Tel.: +49 421 275047
Fax: +49 421 273643

info@shieldex.de

www.shieldex.de/en