



ARACION

INNOVATION | COMMITMENT | EXCELLENCE

RF Shielding Solutions | T&M Solutions | Regulatory certifications

www.aracion.com | info@aracion.com



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COMPANY PROFILE

ARACION: EMPOWERING INNOVATION THROUGH COMMITMENT AND EXCELLENCE

Based in London, United Kingdom, Aracion has been at the forefront of RF, wireless, 5G, and testing services since its establishment in 2014. Our mission is to provide tailored solutions to electronic OEMs, ODMs, and R&D companies throughout their product lifecycle, from conception to regulatory compliance.

Pioneering Solutions: Aracion boasts an in-house Research and Development team dedicated to innovation. Whether your focus is wireless, RF, EMC, 5G, or testing and measurement, our reputation for delivering customized, cutting-edge services precedes us.

Industry Insight: Our experts are well-connected with the committees that set industry standards, ensuring that our clients' testing facilities align seamlessly with their business objectives.

Our objective is to earn the distinction of being a vital partner in the emerging application economy. We aim to empower our clients to achieve exceptional returns on their technology investments through our top-tier industry solutions, deep domain expertise, and global reach.

RF SHIELDING SOLUTIONS

WHERE EXCELLENCE MEETS PRECISION

1. RF SHIELD ENCLOSURES/BOXES:

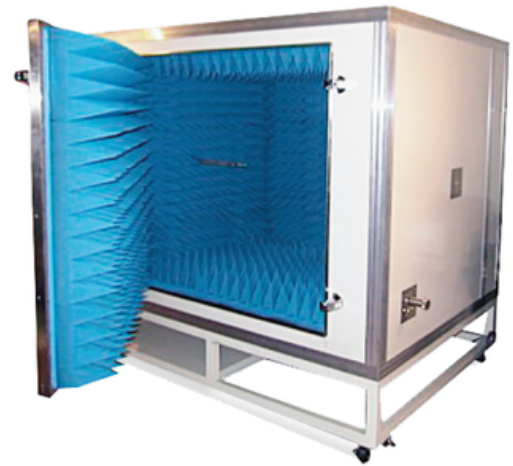
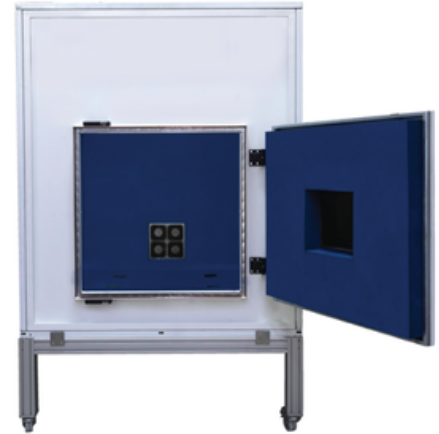
Contemporary RF shield enclosures demand exceptional RF isolation, comprehensive spectral and application coverage, durable construction, and versatile customization options to address the exacting needs of a wide range of applications. At Aracion, we take pride in our consistent delivery of RF shield boxes that not only excel in providing the highest levels of RF isolation and performance but are also tailored to meet the specific and demanding requirements of our customers, all while maintaining cost-effectiveness.

Applications

- RF Testing
- Wireless Communication Device Testing
- IoT Device Testing
- Mobile Device Testing
- Research and Development
- Compliance Testing

Key Specifications

- Reliable High RF Shielding up to 120 dB from 0.1GHz to 110GHz
- Dimensions, Filters and I/Os can be customized
- Customizable absorbers and accessories
- Compact design to test multiple DUTs



2. RF CHAMBERS:

Aracion's chambers, tested and trusted for decades, offer exceptional shielding effectiveness, and reliable performance customized to your needs. Our in-house team collaborates with you to design and create the perfect solution for your specific requirements. Our modular system ensures adaptability to changing needs.

- Compliance chambers
- Military test chambers
- Automotive CISPR12/25 test chambers
- Antenna measurement chambers

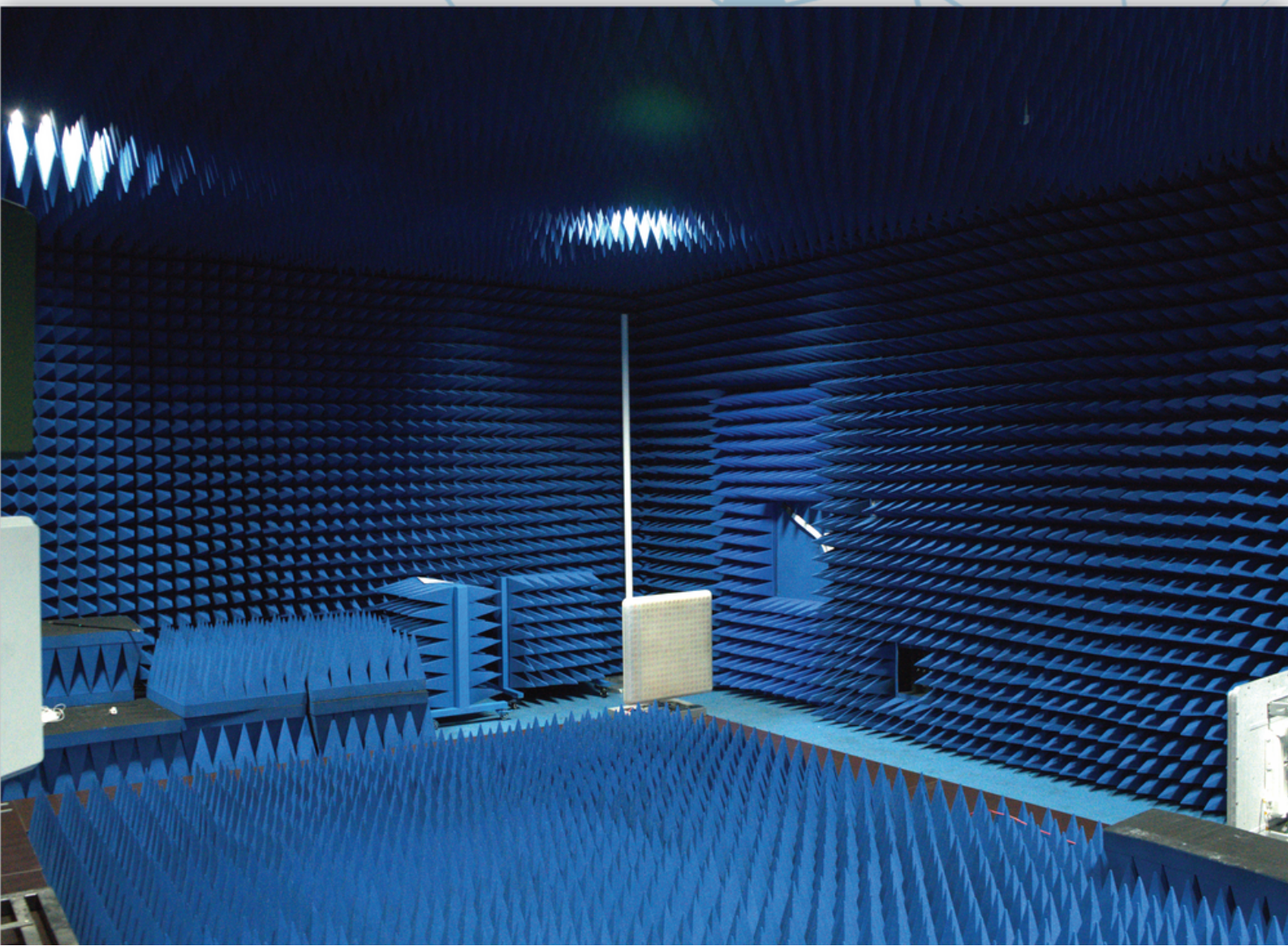
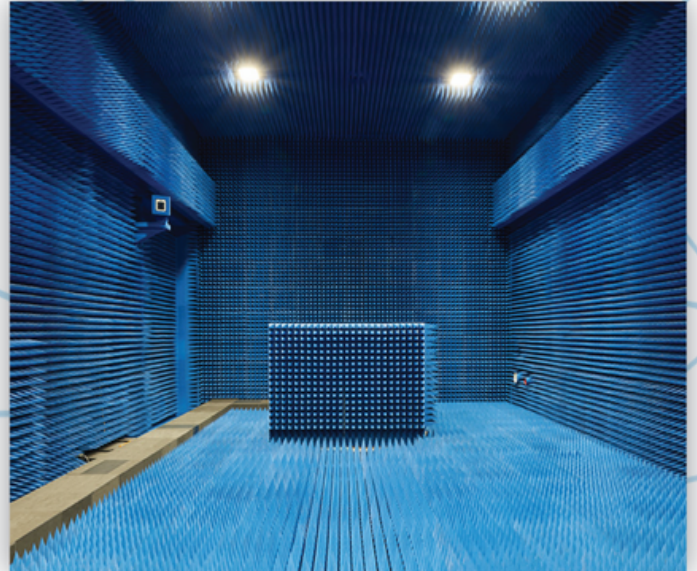
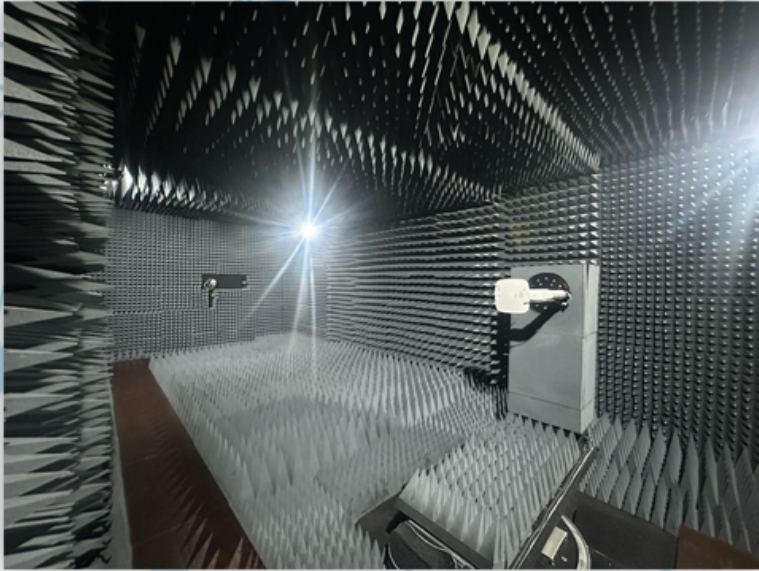
Microwave Chamber

Our chambers can be designed for frequencies extending from 70 MHz to 110 GHz, depending on the requirements. We design these chambers individually to suit the specific application and detailed customer wishes. Test applications extend from RFID chips to satellites.

Applications

- Antenna measurement chambers: Tests of non-mounted antennae for near field (NF), far-field (FF) applications or as compact range solutions
- Over-the-air testing (OTA): Testing of wireless communication devices such as smartphones or tablets, based on the standards applied by the industry association CTIA
- RFID chips: Testing of the antennae properties of RFID chips
- Radar cross-section (RCS): Testing of the radar cross-section
- Radome: Testing of electromagnetic permeability for domed structures protecting antennae





3. EMC CHAMBERS:

Our EMC Anechoic Test Chambers are a shielded enclosure lined with high performance anechoic (anti-echo) material. This creates an accurate, stable and repeatable testing environment for EMC measurements.

Markets

- Aerospace and Defense
- Consumer Electronics
- Telecommunications
- Automotive

OUR SOLUTIONS

Industry Standards

Commercial, Automotive, Military, Residential, Aeronautic

Standard Chambers

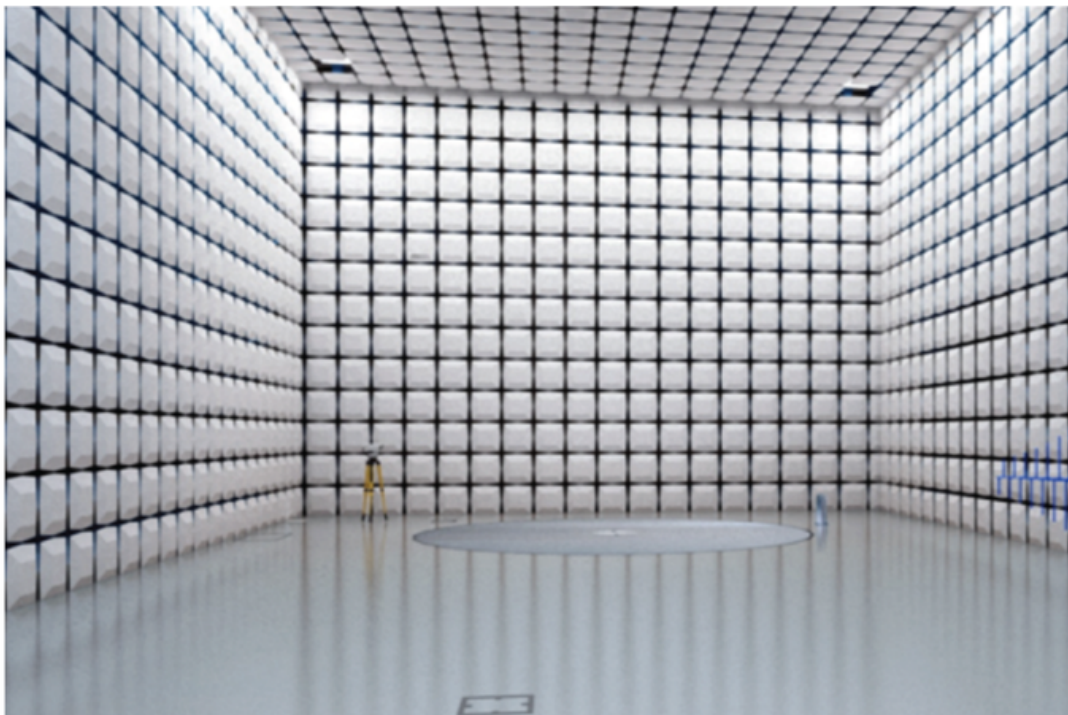
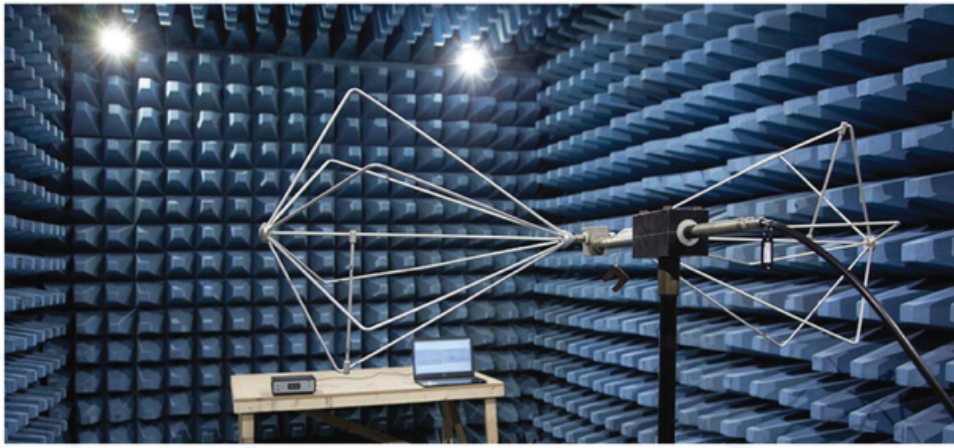
Test chambers for measurement testing at 1m, 3m, 5m, and 10m

Pre-Compliant & Compliant Solutions

Standard chamber configurations available for R&D and product certification

Semi-Anechoic Chamber Or Fully-Anechoic Chamber

For tests with a reflective floor plate or in completely reflection-free chambers.



4. ABSORBERS

Welcome to the world of Aracion's RF Absorbers, where superior performance and precision reign supreme

ABSORBERS FOR EMC APPLICATIONS

- Hybrid absorbers made of polyurathane foam and ferrite tiles. **ARPFA-E.**
- Hybrid absorbers made of solid EPS/EPP foam **AREPS-E/AREPP-E.**

ABSORBERS FOR MICROWAVE APPLICATIONS

- Fire retardant pyramid absorbers for high-power applications **ARAFA-P.**
- Pyramid absorbers made of thin-film coated polyurathane foam **ARPFA-C.**
- Pyramid absorbers made of foam **ARPFA-P.**
- Wedge absorbers made of foam **ARPFA-W.**
- Absorbers made of solid EPP foam **AREPP-P.**

ABSORBERS FOR OTHER APPLICATIONS

- Flat absorbers made of polyurathane foam **ARPFA-T.**
- Narrow-band flat absorbers made of rubber **ARRFA-T.**
- High-power handling absorbers made of honeycomb material **ARHA.**
- Pyramid absorbers for ultra high-power applications **ARSC/ARSN.**

ARPFA-E

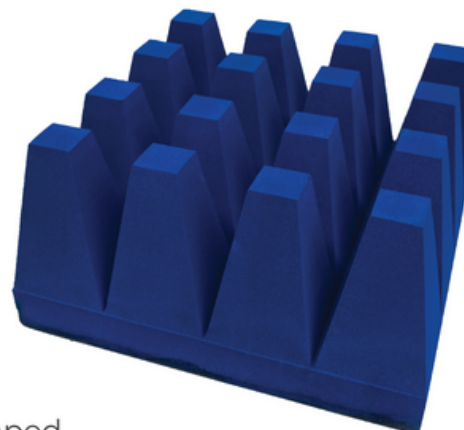
Hybrid absorbers made of polyurathane foam and ferrite tiles

Applications

1 m, 3m, 5m and 10 m SAC and FAC

Features

- Standard truncated shaped or untruncated shaped, pyramidal Polyethylene foam absorber
- Certified to fire-retardancy (GB8624-B1, B2, DIN4102-B2, ISO11925-2, UL94) and environmental specifications
- Modular installation techniques are available using specific adhesive, velcro-fasteners or hanging type
- REACH and RoHS compliant, maintaining a healthy environment for operation
- Installed modularly with ferrites to gain outstanding broadband performance



Characteristics

Operating Temperature long time	-50°C~80°C
Operating Temperature short time	-40°C~70°C
Humidity Range	40%~80%
Quality Control	ISO9001
Product life	+15 years under controlled environment

Model	Base Size (mm)	Pyramids No. per piece	Size of per pyramid (mm)	Nominal weight (kg/m ²)
ARPFA-P200E	600×600	81	190×65×50	4.5
ARPFA-P300E	600×600	36	300×100×60	7.3
ARPFA-P500E	600×600	16	496×145×65	11.5
ARPFA-P700E	600×600	09	700×950×130	16.5
ARPFA-T300E	600×600	16	305×145×72	11
ARPFA-T500E	600×600	09	495×195×110	13
ARPFA-T700E	600×600	04	710×295×100	19
ARPFA-P1000E	300×300	01	1000×300×150	23
ARPFA-T1000E	300×300	01	1000×300×185	28

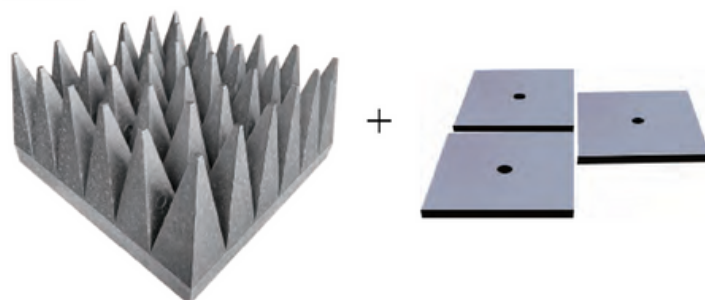
Model	Number of Pyramids Typical Reflectivity (-dB)									Power Capacity (kW/m ²)
	0.03	0.08	0.3	0.5	1	3	6	10	18	
ARFA-P200E	11	21	15	17	11	10	11	13	15	1.5
ARFA-P300E	11	21	16	17	11	13	15	20	20	1.5
ARFA-P500E	12	21	17	19	17	17	20	25	25	1.5
ARFA-P700E	14	23	20	20	18	20	25	25	30	1.5
ARFA-T300E	11	20	17	18	15	13	17	22	25	1.5
ARFA-T500E	13	23	20	20	16	18	22	25	28	1.5
ARFA-T700E	15	25	21	20	20	20	25	28	30	1.5
ARFA-P1000E	15	25	25	25	23	22	28	28	35	1.5
ARFA-T1000E	17	25	25	25	25	30	30	35	40	1.5

AREPS-E/AREPP-E

Hybrid absorbers made of solid EPS/EPP foam

Applications

- 1 m, 3m, 5m and 10 m SAC and FAC
- Especially for environment of high cleanness



Features

- Pyramidal-shape, and grey color for LPEPSE type, black color for LPEPPE type
- Certified to fire-retardancy DIN4102-B2, UL94-HBF and environmental specifications
- Modular installation techniques are available by screw
- REACH and RoHS compliant, maintaining a healthy environment for operation
- Non-hygroscopic materials are used to meet any climatic conditions
- Completely heat, cold and moisture/humidity resistant

Characteristics

Operating Temperature (long-running)	-50°C~70°C
Operating Temperature (short-running)	-50°C~80°C
Humidity Range	40%~80%
Frequency Range	30MHz up to 40GHz
Quality Control	ISO9001
Product life	+25 years under controlled environment

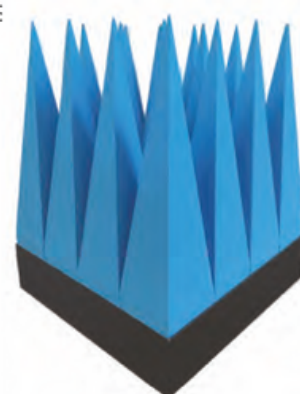
Model	Base Size (mm)	Pyramids No. per piece	Size of per pyramid (mm)	Nominal weight (kg/m ²)	Typical Reflectivity (-dB)										Power Capacity (kW/m ²)
					0.03 (GHz)	0.08 (GHz)	0.3 (GHz)	0.5 (GHz)	1 (GHz)	3 (GHz)	6 (GHz)	10 (GHz)	18 (GHz)		
LPEPS-P300E	600×600	36	300×100×60	2	11	23	17	18	17	20	20	21	25	1	
LPEPS-P500E	600×600	16	500×145×75	3	14	26	20	20	19	20	21	25	28	1	
LPEPS-P700E	600×600	09	500×195×130	4.5	15	27	23	21	20	20	23	25	30	1	
LPEPP-P300E	600×600	36	300×100×60	2.5	11	23	17	18	17	20	20	21	25	1	
LPEPP-P500E	600×600	16	500×145×75	3.5	14	26	20	20	19	20	21	25	28	1	
LPEPP-P700E	600×600	09	500×195×130	5	15	27	23	21	20	20	23	25	30	1	

ARAFA-P

Fire Retardant Pyramid Absorbers for High-Power Applications

Applications

- Far-Field & Near-Field facilities
- Compact Antenna test ranges
- Especially for environment of high power cleanness



Features

- Certified to fire-retardancy (NRL 8093 Tests 1, 2 and 3) and environmental specifications
- Excellent power-handling capability assured under continuous wave exposure
- (Maximum Incident Power Density @ 6kW/m²)
- Modular installation techniques are available using rail mounting without adhesive
- REACH and RoHS compliant, maintaining a healthy environment for operation

Characteristics

Operating Temperature long time	-50°C~120°C
Operating Temperature short time	-50°C~150°C
Humidity Range	40%~60%
Frequency Range	30MHz up to 110GHz
Quality Control	ISO9001
Product life	+15 years under controlled environment

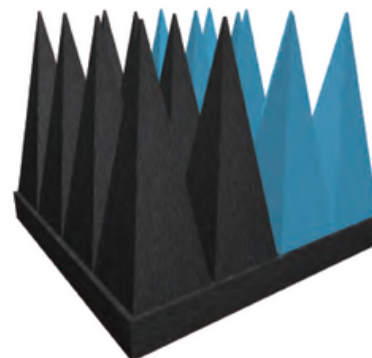
Model	Base Size (mm)	Pyramids No. per piece	Size of per pyramid (mm)	Nominal weight (kg/m2)	Typical Reflectivity (-dB)										Power Capacity (kW/m2)	
					0.03 (GHz)	0.08 (GHz)	0.3 (GHz)	0.5 (GHz)	1 (GHz)	3 (GHz)	6 (GHz)	10 (GHz)	18 (GHz)	40 (GHz)		100 (GHz)
LPAFA-P200	500×500	81	190×65×50	10					27	35	40	45	50	50	45	3
LPAFA-P300	500×500	64	300×50×60	13				25	35	13	50	50	50	55	45	3
LPAFA-P500	500×500	64	500×60×76	19			20	30	40	17	50	50	55	55	45	4
LPAFA-P700	500×500	36	690×80×90	21		8	25	35	40	20	50	55	55	55	45	5
LPAFA-P1000	500×500	16	1000×123×160	29		11	30	40	45	13	55	55	55	55	45	5
LPAFA-P1200	500×500	09	1200×163×180	32	5	13	35	40	45	18	55	55	55	55	45	6
LPAFA-P1500	500×500	09	1500×163×205	33	12	14	35	40	50	20	55	55	55	55	45	6
LPAFA-P1600E	500×500	09	1600×163×220	40	14	22	35	45	50	22	55	55	55	55	45	6
LPAFA-P2000	500×500	04	2000×248×250	45	14	24	38	45	50	30	55	55	55	55	45	6

ARPFA-C

Pyramid Absorbers Made of Thin-Film Coated Polyurathane Foam

Applications

- Far-Field & Near-Field facilities
- Compact Antenna test ranges
- Especially for environment of high power



Features

- Thin-film coated and multi-color is optional
- Non-hygroscopic materials are used to meet any climatic conditions
- Completely heat, cold and moisture/humidity resistant
- Certified to fire-retardancy (NRL 8093 Tests 1, 2 and 3) and environmental specifications.
- Modular installation techniques are available using specific adhesive, velcro-fasteners or hanging type
- REACH and RoHS compliant, maintaining a healthy environment for operation

Characteristics

Operating Temperature long time	-50°C~120°C
Operating Temperature short time	-50°C~150°C
Humidity Range	40%~60%
Frequency Range	30MHz up to 110GHz
Quality Control	ISO9001
Product life	+15 years under controlled environment

Model	Base Size (mm)	Pyramids No. per piece	Size of per pyramid (mm)	Nominal weight (kg/m2)	Typical Reflectivity (-dB)										Power Capacity (kW/m2)	
					0.03 (GHz)	0.08 (GHz)	0.3 (GHz)	0.5 (GHz)	1 (GHz)	3 (GHz)	6 (GHz)	10 (GHz)	18 (GHz)	40 (GHz)		100 (GHz)
LPPFA-P50C	610×610	576	50×25×20	2.5							30	35	40	50	45	1.5
LPPFA-P10C	610×610	225	96×36×20	3.6					15	30	35	43	50	50	45	1.5
LPPFA-P150C	610×610	144	150×50×30	4.4					20	33	40	48	50	50	45	1.5
LPPFA-P200C	610×610	81	190×65×50	6.5				20	27	38	45	50	50	50	48	1.5
LPPFA-P300C	610×610	36	300×100×60	11.5				25	35	43	50	50	55	55	47	1.5
LPPFA-P500C	610×610	16	495×145×70	18			20	30	35	45	50	55	55	60	48	1.5
LPPFA-P700C	610×610	9	700×195×130	26		8	27	40	45	50	55	55	60	60	48	1.5
LPPFA-P1000C	300×300	1	1000×300×150	36	5	11	35	40	45	55	55	60	60	60	47	1.5
LPPFA-P1200C	400×400	1	1200×400×200	41	7	16	40	45	50	55	55	60	60	60	47	1.5
LPPFA-P1600C	500×500	1	1600×500×200	32	8	17	40	45	50	55	60	60	60	60	48	1.5
LPPFA-P1800C	500×500	1	1800×500×200	37	9	19	42	48	50	55	60	60	60	60	48	1.5

ARPFA-P

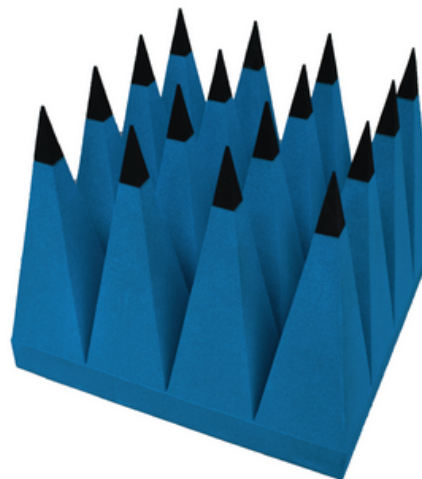
Pyramid Absorbers Made of Polyurathane Foam

Applications

- Far-Field & Near-Field facilities
- Compact Antenna test ranges

Features

- Certified to fire-retardancy (NRL 8093 Tests 1, 2 and 3) and environmental specifications
- Modular installation techniques are available using specific adhesive, velcro-fasteners or plate & rail mounting
- REACH and RoHS compliant, maintaining a healthy environment for operation



Characteristics

Operating Temperature (long-running)	-50°C~90°C
Operating Temperature (short-running)	-100°C~120°C
Humidity Range	40%~70%
Frequency Range	30MHz up to 110GHz
Quality Control	ISO9001
Product life	+15 years under controlled environment

Model	Base Size (mm)	Pyramids No. per piece	Size of per pyramid (mm)	Nominal weight (kg/m2)	Typical Reflectivity (-dB)										Power Capacity (kW/m2)	
					0.03 (GHz)	0.08 (GHz)	0.3 (GHz)	0.5 (GHz)	1 (GHz)	3 (GHz)	6 (GHz)	10 (GHz)	18 (GHz)	40 (GHz)		100 (GHz)
ARPFA-P50	610×610	576	50×25×20	1.5							30	35	40	50	45	1.5
ARPFA-P100	610×610	225	96×36×20	2.2					15	13	35	40	45	50	45	1.5
ARPFA-P200	610×610	81	190×65×50	4				20	27	17	40	45	50	50	48	1.5
ARPFA-P300	610×610	36	300×100×60	7				25	35	20	50	50	55	55	47	1.5
ARPFA-P500	610×610	16	495×145×70	11			20	30	40	13	50	55	55	55	48	1.5
ARPFA-P700	610×610	9	700×195×130	16		8	27	40	40	18	55	55	55	55	48	1.5
ARPFA-P1000	300×300	1	1000×300×150	22	5	11	35	40	45	20	55	55	55	55	47	1.5
ARPFA-P1200	400×400	1	1200×400×200	25	7	16	40	45	50	22	55	55	55	55	47	1.5
ARPFA-P1600	500×500	1	1600×500×200	20	8	17	40	45	50	30	55	55	55	55	48	1.5

ARPFA-W

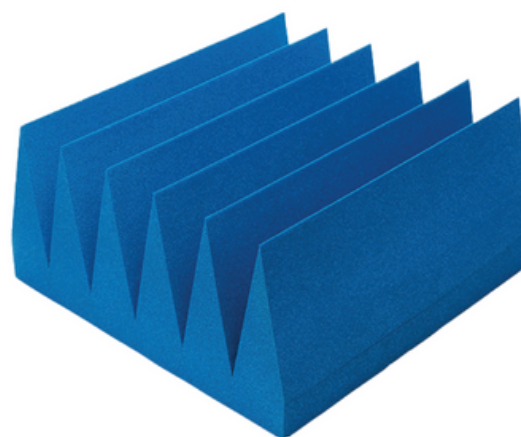
Wedge Absorbers Made of Foam

Applications

- Big-size Compact Antenna test ranges
- Pyramidal shaped chambers

Features

- Wedge-shape, and standard light blue or optional
- Certified to fire-retardancy (NRL 8093 Tests 1, 2 and 3) and environmental specifications
- Modular installation techniques are available using specific adhesive, velcro-fasteners or hanging type
- REACH and RoHS compliant, maintaining a healthy environment for operation



Characteristics

Operating Temperature (long-running)	-50°C~90°C
Operating Temperature (short-running)	-100°C~120°C
Humidity Range	40%~70%
Frequency Range	30MHz up to 110GHz
Quality Control	ISO9001
Product life	+15 years under controlled environment

Model	Base Size (mm)	Pyramids No. per piece	Size of per pyramid (mm)	Nominal weight (kg/m2)	Typical Reflectivity (-dB)							Power Capacity (kW/m2)
					0.5 (GHz)	1 (GHz)	3 (GHz)	6 (GHz)	10 (GHz)	18 (GHz)	40 (GHz)	
LPPFA-W200	610×610	6	200×100×50	8		25	32	35	42	48	50	1.5
LPPFA-W300	610×610	6	300×100×60	10		30	38	45	48	50	50	1.5
LPPFA-W500	610×610	3	495×200×65	16	20	35	43	50	50	50	50	1.5
LPPFA-W700	610×610	3	700×200×130	20	25	40	50	50	50	50	50	1.5

AREPP-P

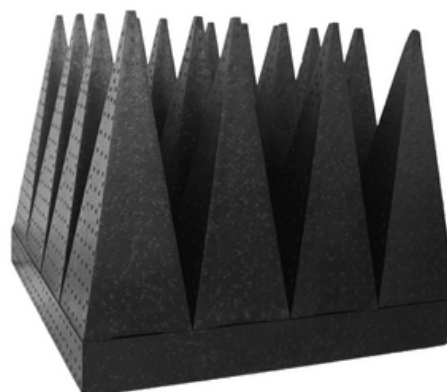
Absorbers Made of Solid EPP Foam

Applications

- Far-Field & Near-Field facilities
- Compact Antenna test ranges

Features

- Pyramidal-shape, and black color with white-hat
- Compliant with fire retardant standard (DIN4102 Class B2 and UL94-HBF) and environmental specifications.
- Modular installation techniques are available using specific adhesive, velcro-fasteners or by screw
- REACH and RoHS compliant, maintaining a healthy environment for operation.
- Non-hygroscopic materials are used to meet any climatic conditions.



Characteristics

Operating Temperature (long-running)	-50°C~70°C
Humidity Range	40%~80%
Frequency Range	30MHz up to 110GHz
Quality Control	ISO9001
Product life	+25 years under controlled environment

Model	Base Size (mm)	Pyramids No. per piece	Size of per pyramid (mm)	Nominal weight (kg/m2)	Typical Reflectivity (-dB)									
					00.8 (GHz)	0.3 (GHz)	0.5 (GHz)	1 (GHz)	3 (GHz)	6 (GHz)	10 (GHz)	18 (GHz)	10 (GHz)	18 (GHz)
LPEPP-P300	600×600	36	300×100×60	2.5			25	35	40	50	50	50	50	50
LPEPP-P500	600×600	16	500×145×75	3.5		20	30	40	45	50	50	50	50	50
LPEPP-P700	600×600	9	500×195×130	5	8	25	35	40	45	50	50	50	50	50

ARPFA-T

Flat Absorbers Made of Polyurathane Foam

Applications

- Far-Field & Near-Field facilities
- Compact Antenna test ranges
- RCS facilities
- Wireless OTA measurement systems



Characteristics

Operating Temperature (long-running)	-60°C~90°C
Operating Temperature (short-running)	40%~80%
Humidity Range	1GHz up to 40GHz
Frequency Range	1kW/m2
Quality Control	ISO9001
Product life	+15 years under controlled environment

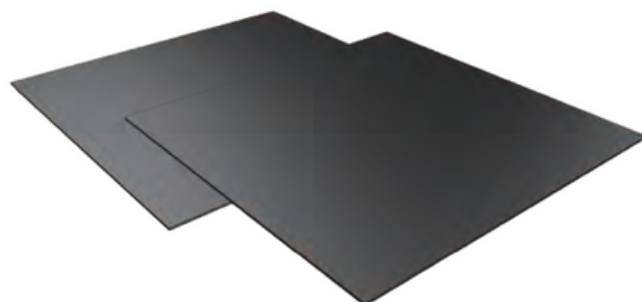
Model	Unit Dimension (mm)	Standard Weight (kg/m2)	Size of Packing Cartol (mm)	Qty Per Carton	Typical Reflectivity (-dB)					
					1 (GHz)	3 (GHz)	6 (GHz)	10 (GHz)	18 (GHz)	40 (GHz)
LPPFA-T5	610x610x5	0.3	1280x 605 x 605	256				5	10	15
LPPFA-T10	610x610x10	0.5	1280x 605 x 605	128			10	15	15	18
LPPFA-T20	610x610x20	0.6	1280 x 605 x 605	64		10	15	17	17	20
LPPFA-T50	610x610x50	1.5	1280 x 605 x 605	26	10	18	18	19	19	22
LPPFA-T100	610x610x100	3	1280 x 605 x 605	13	15	19	19	20	20	22
LPPFA-TW40	610x610x40	1.5	1280 x 605 x 605	32	18	20	20	20	20	23

ARRFA-T

Narrow-Band Flat Absorbers Made of Rubber

Applications

- Far-Field & Near-Field facilities;
- Compact Antenna test ranges;
- Wireless OTA measurement systems



Features

- Applied frequency : 1~ 40GHZ
- Thickness: determined by the resonance frequency (working center frequency)
- Heat resistance characteristics: -50°C ~150°C
- Environment applied: Can be applied to any bad environment
- Power resistance: above 2kW/m2
- Absorbing performance: resonance absorption attenuation < -18dB
- Applications: LPRFA-T is suitable to where need wafer and no need of broadband, it should have metal bottom and closely paste when use. It is mainly used for reflection of metal components in radome and liners of radar house, to suppress electromagnetic interference and etc

Model	Resonant Frequency (GHZ)	Thickness (mm)	Weight (kg/m2)	Typical Reflectivity (-dB)
ARRFA-T40	40	0.7	2	18
ARRFA-T15	15	1.3	3.5	18
ARRFA-T10	10	1.8	5.2	18
ARRFA-T7	7	2.5	7	18
ARRFA-T5	5	3	8	18
ARRFA-T2	2	6.8	17	18

ARHA

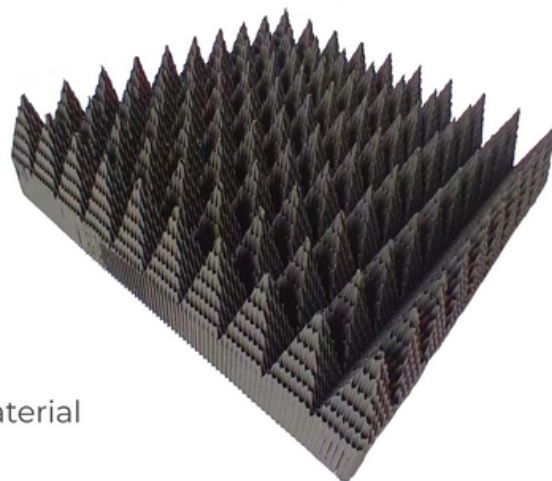
High-Power Handling Absorbers Made of Honeycomb Material

Applications

- Far-Field & Near-Field facilities;
- Compact Antenna test ranges;
- Wireless OTA measurement systems

Features

- A lightweight high-temperature handling material with hexagonal cells.
- Operated at various frequencies over a broad spectrum
- Certified to fire-retardancy (NRL 8093 Tests 1, 2 and 3) and environmental specifications
- Modular installation techniques are available using specific adhesive, velcro-fasteners or by screw or hanging type
- REACH and RoHS compliant, maintaining a healthy environment for operation
- Other base sizes are optional



Characteristics

Operating Temperature (long-running)	-50°C~150°C
Humidity Range	40%~80%
Frequency Range	1GHz up to 40GHz
Power-handling capability	10kg/m2
Quality Control	ISO9001
Product life	+15 years under controlled environment

Model	Base Size (mm)	Pyramids No. per piece	Height (mm)	Typical Reflectivity (-dB)								
				0.08 (GHz)	0.3 (GHz)	0.5 (GHz)	1 (GHz)	3 (GHz)	6 (GHz)	10 (GHz)	18 (GHz)	40 (GHz)
ARHA-P50	500×500	200	50				15	13	30	35	40	50
ARHA-P100	500×500	100	100				20	30	35	40	45	50
ARHA-P150	500×500	100	150			15	28	32	35	45	45	50
ARHA-P200	500×500	100	200		15	20	33	35	40	45	50	50
ARHA-P300	500×500	25	300		22	27	40	40	45	50	55	50
ARHA-P500	500×500	9	500	6	27	35	43	45	52	55	55	52
ARHA-P700	500×500	4	700					50	52	55	55	52
ARHA-T5	500×500		5						6	8	12	15
ARHA-T10	500×500		10				16	5	12	15	18	20
ARHA-T18	500×500		18				10	8	15	15	20	20
ARHA-T50	500×500		50					13	17	18	22	23
ARHA-T100	500×500		100					20	20	22	22	25

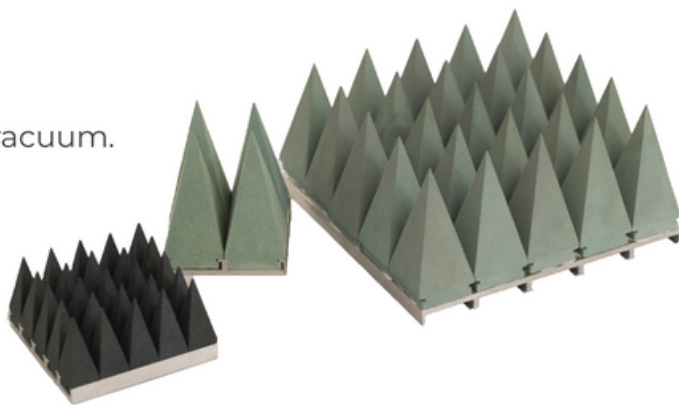
ARSC/ARSN

Pyramid Absorbers for Ultra High-Power Applications

Applications

For environment of high power and high vacuum.

High-power silicon carbide pyramid absorbing material is a kind of inorganic sintered materials, resistant to strong power, commonly used in high power absorbinobox and comprehensive test for high power airborne antenna, power resistance no less than 30 kW/m², easily install with a metal T shape slot on a cold plate and with high reliability.

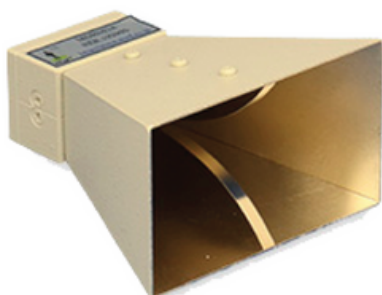


In addition, the silicon carbide material with good thermal conductivity and good applicability in vacuum, which can be applied to antenna test under high vacuum environments, such as satellite antenna measurement

Model	Thickness (mm)	Average Weight (kg/m ²)	Typical Reflectivity (-dB)				
			P band	S band	C band	X band	Ku band
LPSC-50	50	40		-15	-20	-25	-30
LPSC-90	90	60		-25	-30	-35	-40
LPSC-200	200	150	-18	-30	-35	-38	-40

5. ACCESSORIES

Aracion provides the accessories you need to enhance the functionality and performance of your electronic systems. Whether it's antennas for various applications or filters and connectors to meet specific requirements, we have you covered with precision-engineered solutions.



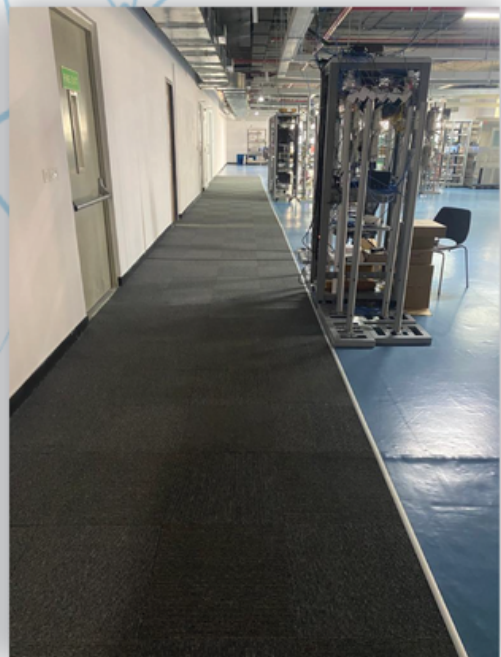
TURNKEY LAB SOLUTIONS

Embarking on the journey of establishing a new laboratory is undoubtedly a complex mission. The path is strewn with obstacles - be it adhering to a strict budget, scouting for the most suitable equipment, ensuring regulatory compliance, customizing designs, or even the race against the ticking clock. But fear not, for Aracion's Turnkey Lab Solutions is here to be your guiding star!

As trailblazers in the global arena, Aracion is not just a name but a promise of excellence. We pride ourselves in presenting comprehensive setups fine-tuned for RF, wireless, EMI/EMC, and pre-compliance testing realms.

What sets us apart? It's our deep-rooted expertise in test and measurement. Coupled with our state-of-the-art shield boxes and chambers, we meticulously mold the perfect solution, bespoke to your distinct needs.

But that's not all! Our team of domain specialists are at the heart of our operation. Their unparalleled insights and dedication ensure that when you collaborate with Aracion, you're not just getting a service, but the best-in-class solution the industry has to offer



TEST & MEASUREMENT INSTRUMENTATION

In the ever-evolving world of testing and measurement, innovation is the key to success. Aracion is your trusted partner, standing as a beacon of ingenuity. Our cutting-edge technology solutions redefine precision and quality, solving the most intricate testing and measurement challenges.

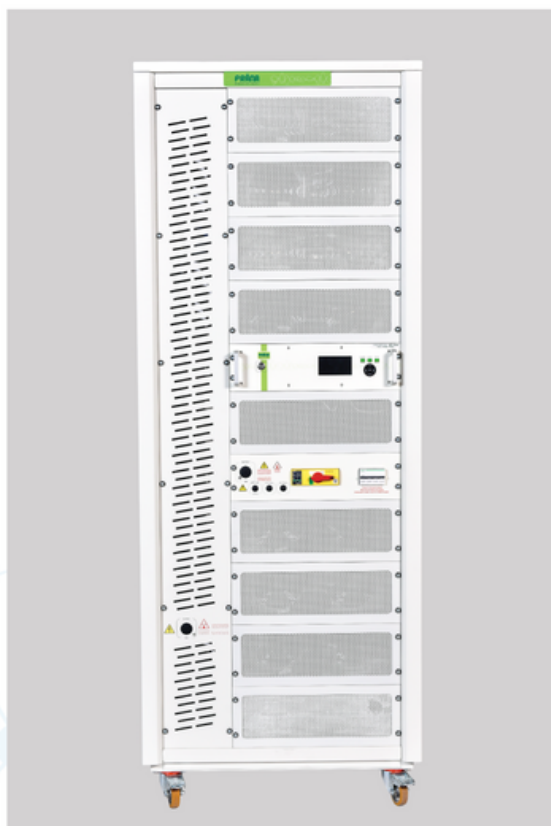
SERVING YOUR INDUSTRY

- Aerospace & Defence
- Automotive
- Electronics design
- EMC testing
- Mobile network testing

THE ARACION ADVANTAGE

- We customize our solutions to meet the unique needs of your industry.
 - Choose a flexible approach to technology acquisition: lease, purchase, or rent.
 - Benefit from our T&M solution consultation services.
- 

- Our software development expertise takes your capabilities to the next level.
- T&M OEMs we work with: VIAVI, Spirent, Keysight, Anritsu, Rohde & Schwarz, Prana RD, Bonn Elektronik, Com-Power, Schwarzbeck, Montana, Raditeq, Minicircuits, RF-lambda, etc.



ELECTRONICS TEST LABORATORY

In our interconnected world, electronic products must adhere to global standards to achieve international success. Aracion's Electronic Testing Laboratory provides a comprehensive solution, catering to certifications like TEC, BIS, CE, FCC, military, and automotive standards. Whether it's an innovative telecom device or a unique automotive gadget, we're primed to offer specialized testing and certifications.

Beyond local standards, Aracion ensures your product garners global appeal. Our commitment is fortified by our ISO 17025 accreditation, reflecting our dedication to precision and reliability. Our expertise spans Electromagnetic Compatibility, Wireless, Wireline Telecom, and Safety certifications, guaranteeing your product's excellence in both commercial and military arenas.

As the globe becomes more unified, aligning with Aracion ensures your product not only stands out but also aligns with international benchmarks. Partner with us for global success!

TESTING CAPABILITIES

EMI-EMC TESTING

- Radiated Emission Test
- Harmonic Current Emission Test
- Voltage Flick Current Fluctuation Test
- Conducted Emission (Power Line and Signal Line) Test
- Conducted Susceptibility Test
- Surge Immunity Test (Power & Telecom link)
- Conducted Power disturbance (household product) Test
- Radiated Magnetic Emission Test (lighting Product)
- LED lamps and Luminaries
- Electrostatic Discharge Test
- Pulse Magnetic Field
- Voltage Dips and short Interruption (AC)
- Voltage Dips and short Interruption (DC)

WIRELESS TESTING

- 
- 802.11a/b/g/n/ac/ad
 - GSM / GPRS / EDGE
 - CDMA / EV-DO
 - WCDMA / HSPA
 - FRS / GMRS
 - Bluetooth
 - FHSS
 - DSSS

CELLULAR TESTING

- GSM/GPRS/EDGE
- WCDMA/HSPA
- CDMA
- LTE/LTEA
- Base Station Antenna / Active Antenna System
- Multi-Standard Radio (MSR)
- 5G – FR 1 / BTS / AAS / NB-IoT

RF TESTING

- Short Range Devices (SRD)
- Short Range Devices & Inductive loop systems in the range 9 KHz to 25 MHz
- RF Requirements of GSM/GPRS/EDGE
- RF Requirements for LTE/LTE-A
- RF Requirements of WCDMA/HSPA
- Short Range devices in the range 1GHz to 40GHz
- Active Antenna System
- Base Station Antenna

ENVIRONMENTAL SAFETY TESTING

- Commercial – IEC 60068/ IS 9000 series
- Indian Military – JSS 55555
- Telecom – QM 333 standard
- Global Military – MIL 810 C, D, E, F, G & H

ELECTRICAL SAFETY TESTING

Facility in Electrical Safety Testing under BIS / TEC

- Information technology equipment – Safety
- Audio/video, information and communication technology equipment
- Uninterruptible power systems (UPS)
- Audio, video, and similar electronic apparatus
- Electrical Safety for LED Bulbs
- Electrical Safety for Control Gears
- Mobile Language Test for Indian Languages

PRODUCT SAFETY TESTING

Safety Standards:

- IEC 62368:2018
- IEC 60601-1
- IEC 60950
- IEC 62040
- IEC 61010-1

MEDICAL PRODUCT TESTING

- ISO 13485
- ISO 14971
- IEC 60601

AUTOMOTIVE (ESA – ELECTRONIC SUBASSEMBLY) TESTING – 2W/ 4W/ 3W

- CISPR 12, 25
- ISO 7837-2,3,4,5
- ISO 11452-2 & 4

REGULATORY QUALIFICATION AND CERTIFICATION

Time-to-market is crucial for manufacturers. Delays during the product's certification phase hinder legal sales, increasing losses. The cycle: Develop -> Test -> Certify -> Sell is vital, with no room for shortcuts. Aracion offers value-add services, streamlining the certification process. With experience in global product certifications, we optimize documentation, offer full support, and prioritize efficiency, considering both time and cost.

ALLIANCE QUALIFICATION AND CERTIFICATION



REGULATORY TESTING & CERTIFICATION



REGULATORY REPRESENTATIVE SERVICES

Launching a product in a specific region or country requires a lot of regulatory testing approvals. As regulatory representatives, we work with manufacturers to ensure compliance with local regulations and standards.

We help you with local presence in the region, communication with authorities, labeling & documentation, updates on evolving regulations, and navigating compliance issues.

OUR CUSTOMERS



OUR LOCATIONS





**Contact our offices near you and find out how our insights
into your company accomplish meaningful solutions to your**

USA	+1 312 238 9803	us@aracion.com
UK	+44 207 993 4292	uk@aracion.com
BRAZIL	+55 114 280 7697	br@aracion.com
MEXICO	+52 3353 500 232	mx@aracion.com
NETHERLANDS	+31 85064 4015	nl@aracion.com
UAE	+971 50 675 0734	ae@aracion.com
INDIA	+91 806 757 7789	in@aracion.com
CHINA	+86 188 2425 2563	cn@aracion.com
SINGAPORE	+65 3174 3628	sg@aracion.com
THAILAND	+66 60 003 5287	th@aracion.com
AUSTRALIA	+61 29052 0813	au@aracion.com