

WAVASORB®AN

Laminated Broadband Flexible Flat Foam Absorber

- ✓ WAVASORB®AN is a series of lightweight, flat, flexible, carbon loaded urethane foam absorbers;
- ✓ Consisting of a multilayer structure with different graded layers;
- ✓ Quality controlled;
- ✓ Designed to obtain a broadband reflectivity level of typically -15dB at microwave frequencies. Measured at a normal incident configuration relative to a metallic backing plate.



WAVASORB® AN

Installation Methods

WAVASORB® AN is bonded to metallic surfaces using WAVASORB® Adhesive.

For easy exchange, modular installation techniques are available using velcro-fasteners to achieve perfect geometry and alignment compatibility with any type of shielding.

Easily to cut on a band saw, with scissors or a sharp knife.



Applications

WAVASORB® AN is the preferred solution for the anechoic chamber lining:

- ✓ Of the inside of small test boxes, to reduce reflection;
- ✓ Around antennas for reducing the crosstalk between adjacent antennas;
- ✓ To improve the antenna patterns and back- and sidelobes;
- ✓ To reduce Radar Cross Section (RCS) from masts and other metal structures.

*Sizes of our WAVASORB® AN can easily be customized to fit any specific project area.
Multiple variables go with our WAVASORB® AN-absorbers,
e.g. plastic coating, painting/coating colours, self-adhesive tape factory-installed, ...
For more information on variables, contact your local sales representative.*

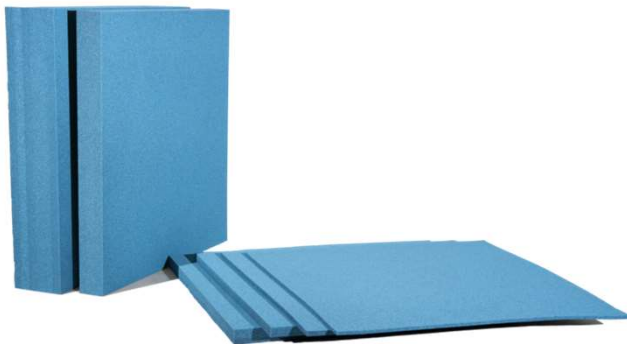
WAVASORB® AN



Characteristics

Handling Temperature⁽¹⁾	+5°C to +35°C
Humidity Range	30% to 70%
Frequency Range	800 MHz up to 40 GHz
Quality Control	IEEE Standard 1128 ISO 9001
Product Life	25+ years under controlled environment

⁽¹⁾ Depending on the application, the absorber can withstand temperatures of +90°C, for more information, contact your sales representative



Physical properties

	Standard Color⁽¹⁾	Standard footprint⁽²⁾
WAVASORB® AN	Light blue	61 cm x 61 cm

⁽¹⁾ Contrast colours available on request

⁽²⁾ The above-mentioned dimensions have a tolerance of +/- 6 mm

	Total height⁽¹⁾ (cm)	Average weight⁽²⁾ (kg)
WAVASORB® AN-72	0,70	0,25
WAVASORB® AN-73	1,00	0,35
WAVASORB® AN-74	1,90	0,50
WAVASORB® AN-75	2,90	0,50
WAVASORB® AN-77	5,90	0,80
WAVASORB® AN-79	11,80	1,75

⁽¹⁾ The above-mentioned dimensions have a tolerance of +/- 6 mm

⁽²⁾ Weight values are subject to changes

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Typical Reflectivity Performance at Normal Incidence & Measurement Techniques

WAVASORB® AN is manufactured in well-defined batches and their reflectivity is continuously monitored following internal ISO 9001 procedure.

WAVASORB® AN is tested routinely in-house in the frequency range from 800 MHz up to 18 GHz using a waveguide and NRL Arch in accordance with the practice recommended in IEEE Standard 1128.

Furthermore, WAVASORB® AN offers favourable reflectivity properties at off-normal angles of incidence with almost no reflectivity degradation up to 45 degrees.

	800 MHz - 18 GHz	1,5 - 18 GHz	3 - 18 GHz	4 - 18 GHz	7,5 - 18 GHz	10 - 40 GHz
WAVASORB® AN-72 ⁽¹⁾						<-11 dB ⁽²⁾
WAVASORB® AN-73 ⁽¹⁾					<-15 dB ⁽²⁾	
WAVASORB® AN-74 ⁽¹⁾				<-15 dB ⁽²⁾		
WAVASORB® AN-75 ⁽¹⁾			<-15 dB ⁽²⁾			
WAVASORB® AN-77 ⁽¹⁾		<-15 dB ⁽²⁾				
WAVASORB® AN-79 ⁽¹⁾	<-15 dB ⁽²⁾					

⁽¹⁾WAVASORB® AN is tested routinely in-house in the frequency range from 800 MHz up to 18 GHz, using a waveguide and NRL Arch in accordance with the practice recommended in IEEE Standard 1128

⁽²⁾ Measurement results available at request



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Safety Considerations: It is recommended to consult the E&C ANECHOIC CHAMBERS product literature, including material safety data sheets, prior to use E&C ANECHOIC CHAMBERS products. These may be obtained from your local sales office.

Warranty: Values shown are based on testing of laboratory test specimens and represent data that falls within the normal range of properties of the material. These values are not intended for use in establishing maximum, minimum or ranges of values for specification purposes. Any determination of the suitability of the material or any use contemplated by the user and the manner of such use is the sole responsibility of the user who must assure that the material as subsequently processed meets the needs of this particular product or use.

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