

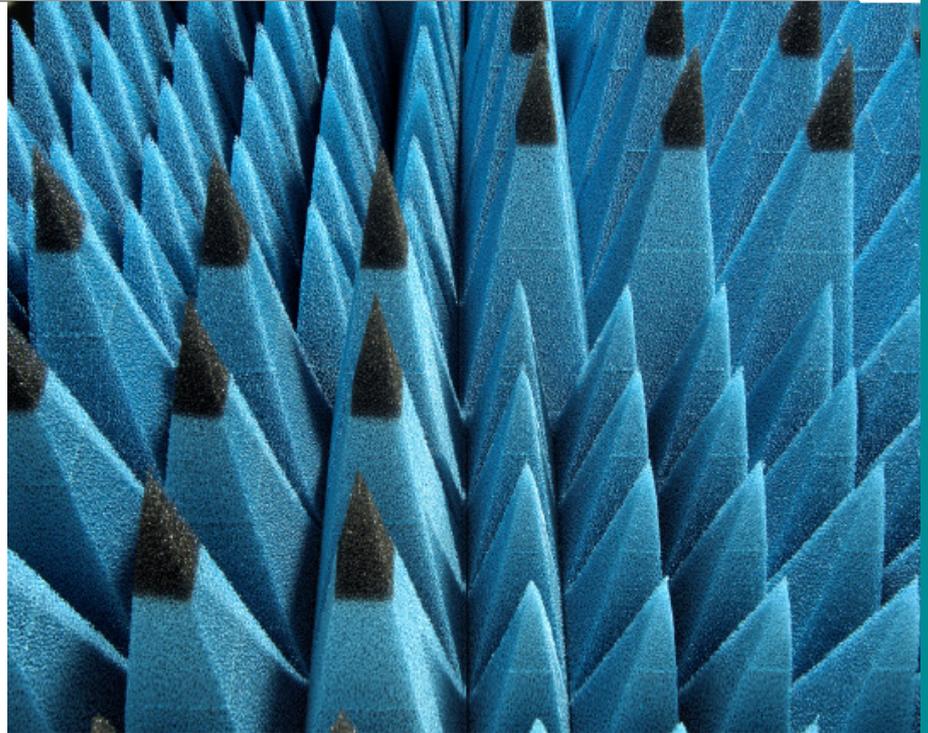
# ECCOSORB® SPY-NRL

## BROADBAND PYRAMIDAL OPEN-CELL FOAM ABSORBER

### Description

ECCOSORB SPY is a high-performance pyramidal absorber, made from lightweight open-cell foam and is designed for medium range power densities.

Its shape and electrical performance are similar to those of ECCOSORB VHP.



### Application

ECCOSORB SPY is typically used in medium-power density applications.

The foam has a much more open-cell structure compared to ECCOSORB VHP, which allows air circulation between cells and maintain a moderate average temperature when illuminated with medium-power densities up to 8 kW / m<sup>2</sup>.

For higher-power densities applications, the honeycomb ECCOSORB HFX-HC pyramidal absorber is recommended.

### Physical properties

	ECCOSORB SPY
Standard color	Blue
Base size (cm)	61 x 61
Max service temperature	90°C
Power handling	8 kW / m <sup>2</sup>
Fire retardancy	NRL8093 Tests 1, 2 and 3

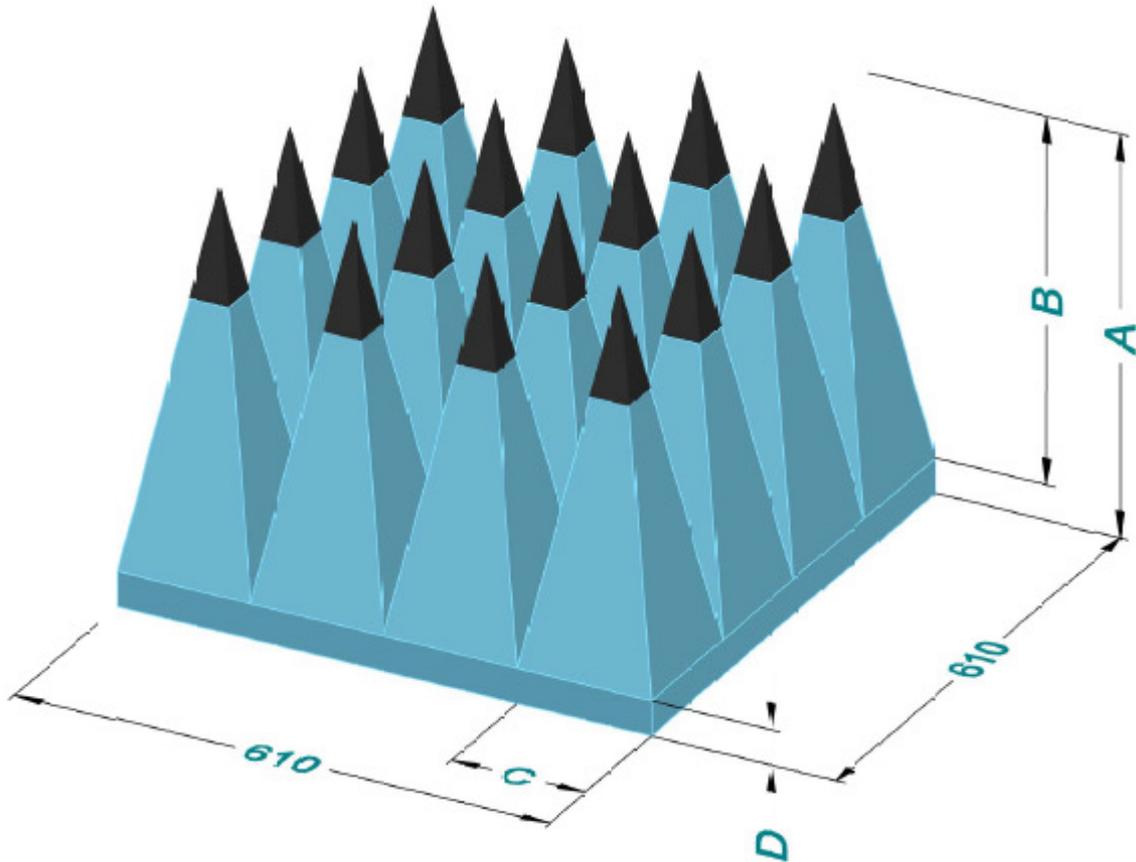
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# ECCOSORB<sup>®</sup> SPY-NRL

## BROADBAND PYRAMIDAL OPEN-CELL FOAM ABSORBER

- Nominal dimensions and weights of ECCOSORB SPY

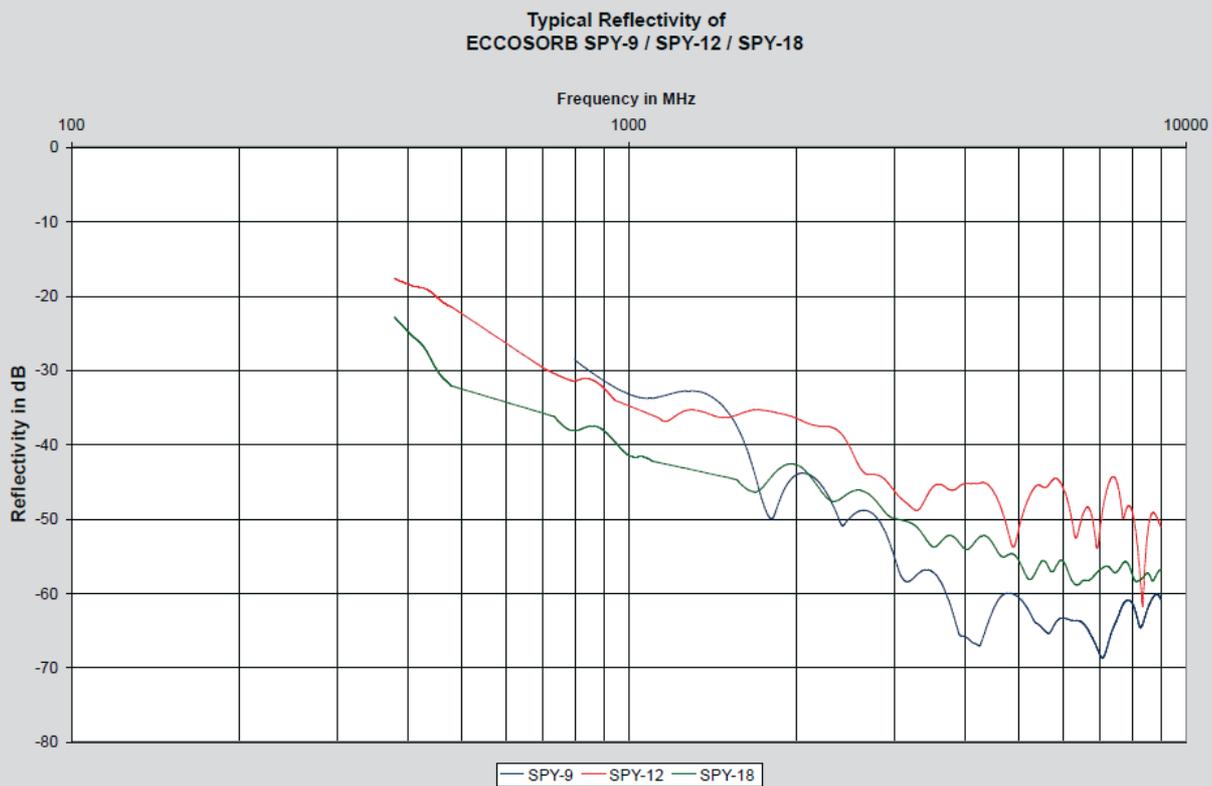


	Total height A (cm)	Pyramid height B (cm)	Pyramid width C (cm)	Base height D (cm)	Number of pyramids per piece	Nominal weight (kg)
ECCOSORB SPY-9	23.0	20.5	6.8	2.5	9	2.2
ECCOSORB SPY-12	30.5	24.5	10.2	6.0	6	2.7
ECCOSORB SPY-18	45.7	38.2	15.2	7.5	4	3.5

## ■ Electromagnetic properties

The microwave absorbing properties of ECCOSORB SPY are similar to those of ECCOSORB VHP. The table below gives the specified reflectivity values, showing the frequency at which a particular reflectivity can be expected for each grade.

	-20 dB	-30 dB	-40 dB	-50 dB
ECCOSORB SPY-9	1.0	1.5	3.0	9.0
ECCOSORB SPY-12	0.5	1.0	3.0	9.0
ECCOSORB SPY-18	0.4	0.5	1.0	9.0



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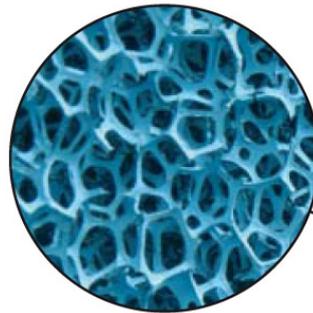
### ■ Availability

ECCOSORB SPY is adapted in thickness, geometry and reflectivity performance to the corresponding grades of ECCOSORB VHP.

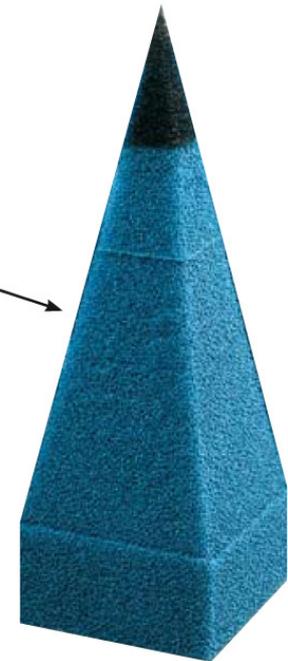
3 standard grades are available: SPY-9, SPY-12 and SPY-18.

### ■ Instructions for use

ECCOSORB SPY can be bonded to structures using a contact adhesive such as E&C ADHESIVE 13111. In this case, several coatings of the adhesive should be applied to the back surface of the absorber and be allowed to dry, to create a solid back surface. It is preferred to use mechanical means to supplement the adhesive. Impaling the piece on plastic pins or hooks is particularly effective to allow air circulation inside the absorber.



Structure detail



**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.

We hope the information given here will be helpful. It is based on data and knowledge considered to be true and accurate and is offered for the user's consideration, investigation and verification but we do not warrant the results to be obtained. Please read all statements, recommendations or suggestions in conjunction with our conditions of sale INCLUDING THOSE LIMITING WARRANTIES AND REMEDIES which apply to all goods supplied by us. We assume no responsibility for the use of these statements, recommendations or suggestions nor do we intend them as a recommendation for any use which would infringe any patent or copyright.

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