

ECCOSORB® HX-NRL

PYRAMIDAL HOLLOW ABSORBER FOR LARGE EMC/EMI TEST CHAMBERS

Description

ECCOSORB HX is a flat-top, reinforced, hollow, pyramidal absorber which has been optimized for application in large shielded semi-anechoic chambers used for radiated emission testing at 10m distance in the frequency range 30 MHz - 18 GHz, where the chamber has to meet the volumetric NSA (Normalized Site Attenuation) specification according to ANSI C63.4, CISPR 16 or EN 50147-2. The NRL-suffix refers to its compliance with the fire retardancy requirements of the U.S. Naval Research Laboratory (NRL) test 8093.



Application

This class of absorber has been developed specifically for radiated emission test chambers. It is also useful in other applications such as radiated susceptibility test according to EN 61000-4-3 and applications at very low frequencies. Compared to standard pyramidal absorbers of similar height, ECCOSORB HX shows better reflectivity performance in the critical low-frequency range (from 30 MHz up) of EMC/EMI test chambers. However, the absorber still performs more than adequately at higher frequencies up to at least 18 GHz.

Physical properties

	HX-60	HX-80	HX-100
Standard color	Black truncated pyramid with white cap		
Base size (cm)	61 x 61		
Max service temperature	90°C		
Power handling	1.5 kW / m ²		
Fire retardancy	NRL tests 2 & 3, DIN 4102 Class B2		
Weight incl. supporting plate	13 kg	16 kg	19 kg
Height incl. mounting hooks & rails	1.6 m	2.2 m	2.6 m

E&C Anechoic Chambers NV

Nijverheidsstraat 7A - B-2260 Westerlo

Tel.: +32 14 59 58 00 - Fax: +32 14 59 58 01

info@ecanechoicchambers.com

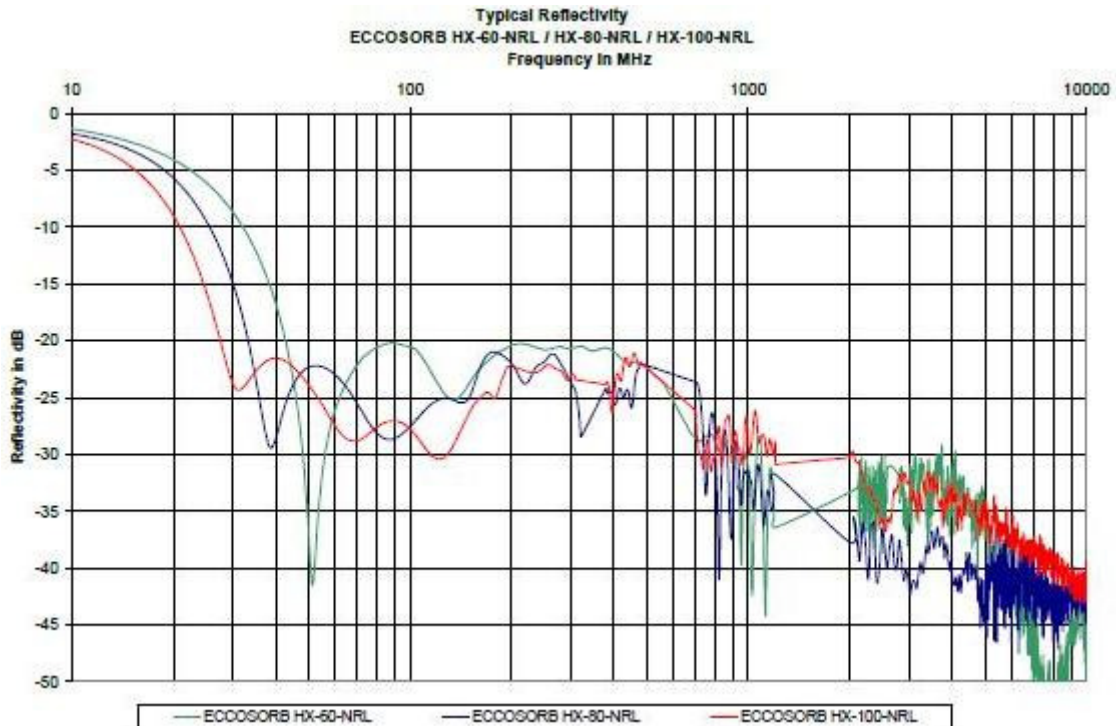
www.ecanechoicchambers.com



ECCOSORB® HX-NRL

PYRAMIDAL HOLLOW ABSORBER FOR LARGE EMC/EMI TEST CHAMBERS

■ Electromagnetic properties



■ Availability

ECCOSORB HX absorbers are available in three standard heights, namely ECCOSORB HX-60, HX-80 and HX-100. ECCOSORB HX standard absorbers are delivered with white caps. White caps offer several advantages like light reflecting white walls, protected absorber tops, more attractive working volume, chamber easier to keep clean.



■ Instructions for use

In its standard design, ECCOSORB HX is always delivered with a supporting galvanized steel plate with mounting hooks and structural reinforcement. The mechanical mounting of large hollow absorbers is the fastest and really secure way to install large absorbers in large anechoic chambers. The mechanical mounting system with rails, plates and hooks avoids the use of large quantities of glue and avoid air ventilation during installation.

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.