

■ **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 10 m distance in the frequency range 30 MHz – 18 GHz where the chamber has to meet the volumetric NSA (Normalised Site Attenuation) specification according to ANSI C63.4, CISPR 16 or EN 50147-2.

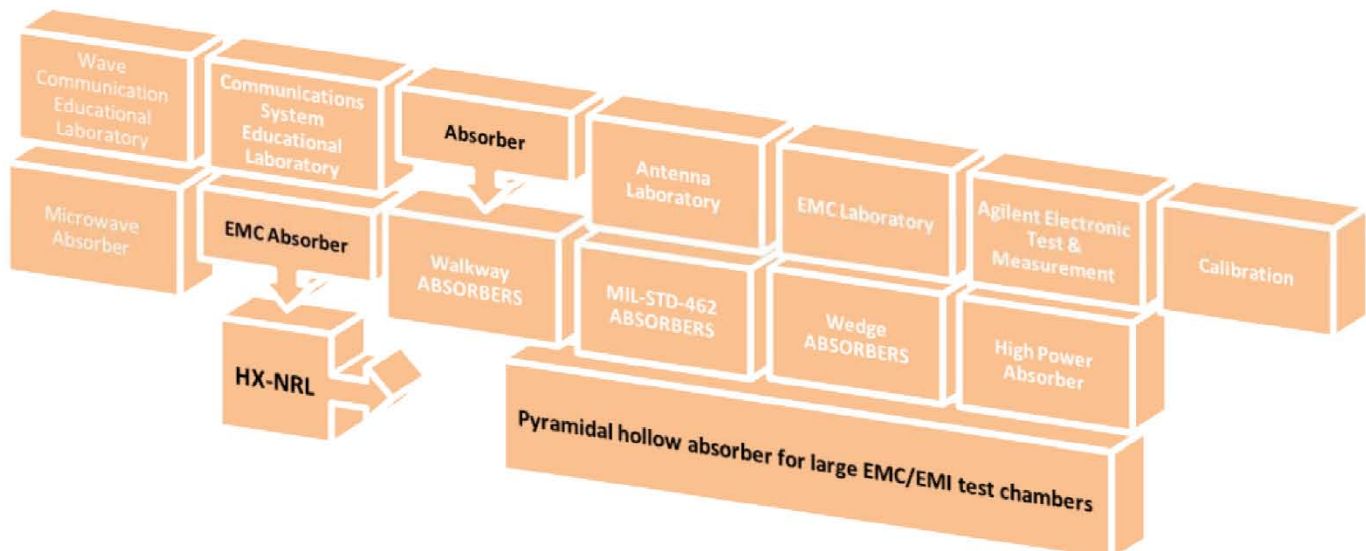


■ **Application :**

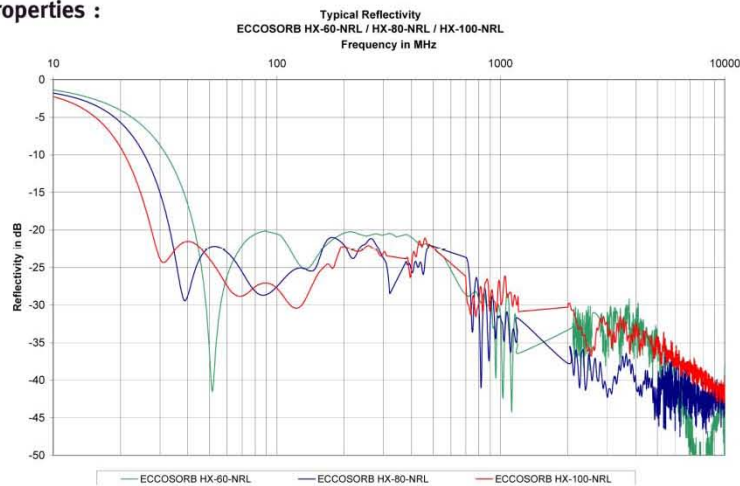
This class of absorber has been developed specifically for radiated emission test chambers, it is also useful in other applications such as radiated susceptibility testing according to EN 61000-4-3 and applications at very low frequencies. Compared to standard pyramidal absorbers of similar height, ECCOSORB 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-NRL	HX-80-NRL	HX-100-NRL
Standard colour	Black truncated pyramid with whitecap		
Base size (cm)	61 x 61		
Maximum Service Temperature	90°C		
Power Handling	1,5 kW/m <sup>2</sup>		
Fire retardancy	NRL 8093 tests 2 & 3, DIN 4102 CLASS B2		
Weight including supporting plate	13 kg	16 kg	19 kg
Height including mounting hooks & rails	1,6 m	2,2 m	2,6 m



■ **Electromagnetic properties :**



■ **Availability :**

ECCOSORB HX absorbers are available in three standard heights, namely: ECCOSORB HX-60-NRL, ECCOSORB HX-80-NRL and ECCOSORB HX-100-NRL. The NRL suffix refers to its compliance with the fire retardancy requirements of the U.S. Naval Research Laboratory (NRL) test 8093. ECCOSORB HX - 60 / 80 / 100 - NRL 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.

Detail of White-caps installed on ECCOSORB HX-NRL.



■ **Instructions for use :**

In its standard design, ECCOSORB HX is always delivered with a supporting galvanised 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 avoids air ventilation during installation.

