

ACOUSTICAL PROPERTIES

SOUND TRANSMISSION

Because sound transmission depends upon a number of variables relating to the installation and materials used, Hambro makes no representations about the sound transmission performance of its products as installed. You should consult with a qualified acoustical consultant if you would like information about sound performance.

ACOUSTICAL CONSULTANTS

The following is a list of readily accessible acoustical consultants found on the World Wide Web, and is not a recommended list. Hambro has not researched their qualifications and cannot make any representation about their abilities.

Archicoistics/Acoustinet

Claude Venet
7725 NW 25th St., #300
Miami FL 33122
305-981-2500

Bertram Y. Knizey Jr.

212 SW 42nd Street
Gainesville, FL. 32607
352-378-1878

Dunn & Associates

P.O. Box 121308
Clermont, FL 34711
352-394-0621

Fagen Acoustical Consultants

P.O. Box 1975
St. Petersburg, FL 33701
727-823-3564

Octave Acoustique, Inc.

Christian Martel, M.Sc. Arch
963, chemin Royal
Saint-Laurent-de-
l'Île-d'Orleans
(Québec) Canada G0A 4N0
418-844-3338

Pelton Marsh Kinsella

4045 Sheridan Ave.,
Suite 420
Miami Beach, FL 33140
305-381-6970

Siebein Associates, Inc.

625 NW 60th Street
Suite C
Gainesville, FL 32607
352-331-5111

Siebein Associates and Octave Acoustique have worked directly for Hambro and some of our customers.

HAMBRO SOUND INFORMATION

Hambro Assemblies	STC	IIC
2 1/2" slab, 1 layer 1/2" drywall	52	26
3" slab, 1 layer 1/2" drywall	57	30
4" slab, 1 layer 1/2" drywall	58	32
4" slab, 2 layer 1/2" drywall	60	36

Completed Hambro floor/ceiling assemblies are available for additional floor finishes testing at NGC. Contact NGC directly or Jerry Rhodes, Hambro, at jerry.rhodes@hambro.ws.

IMPACT OF FLOOR FINISHES & HAMBRO FLOOR SYSTEM

Floor Finishes	IIC Ratings
Carpet and Pad	50
Homasote 1/2" comfort base under wood laminate www.homasote.com	44
6 mm cork under engineered hardwood	47
Dodge Regupol 4010 10 mm underlayment under ceramic tile www.regupol.com	46
Quiet Walk underlayment under laminate flooring www.mpglobalproducts.com	45
Insulayment under engineered wood www.mpglobalproducts.com	46
1 1/2" Maxxon gypsum underlayment over Enkasonic sound control mat with quarry tile over Noble Seal SIS www.maxxon.com	54
1 1/2" Maxxon gypsum underlayment over Enkasonic sound control mat with wood laminate floor over silent step www.maxxon.com	55
1 1/2" Maxxon gypsum underlayment over Enkasonic sound control mat w/Armstrong Commissions Plus Sheet Vinyl www.maxxon.com	53

* All products tested were on a 2 1/2" Hambro slab with a one layer 1/2" drywall ceiling. This chart is provided as a reference. The calculations of sound rating and design of floor/ceiling assemblies with regard to acoustical properties is a building designer/specialty engineering responsibility. Actual field results may vary depending on installation and materials. All product tests were performed at NGC Testing Services, Buffalo NY, www.ngctestingservices.com

STC RATINGS: WHAT THEY MEAN

STC Rating	Practical Guidelines
25	Normal speech easily understood
30	Normal speech audible, but not intelligible
35	Loud speech audible, fairly understandable
40	Loud speech audible, but not intelligible
45	Loud speech barely audible
50	Shouting barely audible
55	Shouting inaudible