

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.

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 |

All product tests were performed at NGC Testing Services, Buffalo NY, www.ngctestingservices.com

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.

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'Ile-d'Orleans
(Quebec) 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 and are familiar with Hambro.

IMPACT OF FLOOR FINISHES & HAMBRO FLOOR SYSTEM

| Floor Finishes | Additional IIC Points |
|--|-----------------------|
| Carpet and Pad | 24 |
| Homasote 1/2" comfort base under wood laminate www.homasote.com | 18 |
| 6 mm cork under engineered hardwood | 21 |
| Dodge Regupol 4010 10 mm underlayment under ceramic tile www.regupol.com | 20 |
| Quiet Walk underlayment under laminate flooring www.mpglobalproducts.com | 19 |
| Insulayment under engineered wood www.mpglobalproducts.com | 20 |
| 1 1/2" Maxxon gypsum underlayment over Enkasonic sound control mat with quarry tile over Noble Seal SIS www.maxxon.com | 28 |
| 1 1/2" Maxxon gypsum underlayment over Enkasonic sound control mat with wood laminate floor over silent step www.maxxon.com | 29 |
| 1 1/2" Maxxon gypsum underlayment over Enkasonic sound control mat w/Armstrong Commissions Plus Sheet Vinyl www.maxxon.com | 27 |

* 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 do not assume responsibility that is beyond your scope of work and/or area of expertise.

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 |