Customized Systems
Available for:

- Finished Floors
  - Hardwood
  - Ceramic Tile
  - Stone
  - Marble
  - Vinyl
  - Carpet
  - Wood Parquet

- Floating Floors
  - Gypsum
  - Lightweight Concrete
  - Mortar Beds
  - Plywood
  - Cementitious Backer Board

Enkasonic®
Sound Control Matting
Noise is the most litigated issue in condominium and apartment ownership. People don't mind living close together, they just don't want to hear one another talk or walk across the floor, their music or any of their appliances. In the past, other methods have been used to try to inhibit noise transfer, but Enkasonic is the best solution for improving both the airborne sound quality and most importantly, that elusive impact sound.

The Material that's been around since.... the mini-skirt.

Well, not quite that long! Beginning with the booming 1980s condo craze, Enkasonic has been solving sound control problems from coast to coast. Backed by the most complete testing and research data of any sound control system, Enkasonic continues to meet or exceed demanding building code requirements. From hardwood to vinyl, Enkasonic works economically with every type of flooring assembly and offers STC and IIC levels unrivaled in the industry. No other system on the market today offers the versatility and value of the Enkasonic sound control system.

Since 1982, millions of square feet of Enkasonic have been installed:

- Coca-Cola Headquarters — Atlanta, GA
- Southwest Crossings — Naperville, IL
- CBS Studios — Los Angeles, CA
- Beverly Hills Hotel/Bungalows — Beverly Hills, CA
- U.S. Holocaust Memorial Museum — Washington, D.C.
- MGM Grand Hotel — Las Vegas, NV
- Tuxedo Park — Chicago, IL

L.R. Development

- Ft. Sheridan — Highland Park, IL
- Park Hyatt — Chicago, IL

MCL Development

- Central Station and Cornell Square — Chicago, IL

Using the Enkasonic sound control system cuts airborne and impact sound transmission over 20 decibels in some assemblies.
NEW! 3/4 Inch Topping Application

Achieve industry standard 3/4 inch topping by using Enkamat 7918R with gypsum and cement based underlayments. This new system is:
- Certified by the Ceramic Tile Institute of America
- Tested by the Tile Council to pass residential ratings
- Requires no crack isolation with ceramic tile
- Provides a better surface for ceramic tile than traditional topping.

We’ve Created The Complete System

Colbond Building Products offers all of the components needed for a superior sound system.
- Sound Control Mat
- Perimeter Isolation
- Reinforcement for Concrete, Lightweight Concrete and Gypsum.

Consider this when judging sound control performance...

Dynamic Stiffness* - In Europe and Asia sound control products are put to this test to quantify a resilient products effectiveness under a floating slab. The test allows for a comparison of products and the lower the number the better the performance. With a dynamic stiffness factor of 28.43 MN/m³ Enkasonic continues to outperform rubber pads (49.0) and polymer sheets (41.0) every time. That’s up to 60% better than the competition!

* Tested in accordance with ISO 9052-1

Resonant Frequency - All materials have a resonant frequency - a frequency at which sound is amplified rather than filtered. The goal of any sound control mat is to lower the resonant frequency outside of the audible range (below 100 Hz or above 3000 Hz.) Enkasonic has been tested and rated with a resonant frequency of 46.8 Hz. Well below the audible level for all but the family dog!

Luxury condominiums will have stained concrete finished floors.

Decibel Reduction

<table>
<thead>
<tr>
<th>Topping over 8” slab</th>
<th>Cork</th>
<th>Compressible Foam</th>
<th>Enkasonic</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>10</td>
<td>20</td>
<td>30</td>
</tr>
</tbody>
</table>

What this means to your ears

Not Noticeable | Very Noticeable Reduction

Note: tests were performed with no ceiling assembly on 1’ x 3’ sample, marble thinset to a 4” slab.

Sound Ratings - Tested Enkasonic Floor/Ceiling Assemblies

<table>
<thead>
<tr>
<th>SUBFLOOR</th>
<th>SUSPENDED CEILING</th>
<th>ENKASONIC OVERLAY</th>
<th>FLOOR COVERING</th>
<th>STC</th>
<th>LAB TESTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>4”slab</td>
<td>no</td>
<td>7/16” Wonder-Board</td>
<td>tile</td>
<td>55</td>
<td>52</td>
</tr>
<tr>
<td>8”slab</td>
<td>no</td>
<td>7/16” Wonder-Board</td>
<td>tile</td>
<td>59</td>
<td>52</td>
</tr>
<tr>
<td>8”slab</td>
<td>yes</td>
<td>1 1/4” mortar bed</td>
<td>tile</td>
<td>61</td>
<td>62</td>
</tr>
<tr>
<td>8”slab</td>
<td>no</td>
<td>1 1/4” mortar bed</td>
<td>tile</td>
<td>60</td>
<td>54</td>
</tr>
<tr>
<td>8”slab</td>
<td>yes</td>
<td>1 1/4” mortar bed</td>
<td>vinyl tile</td>
<td>61</td>
<td>67</td>
</tr>
<tr>
<td>8”slab</td>
<td>yes</td>
<td>1 1/4” mortar bed</td>
<td>carpet &amp; pad</td>
<td>61</td>
<td>79</td>
</tr>
<tr>
<td>8”slab</td>
<td>yes</td>
<td>1 1/4” mortar bed</td>
<td>5/16” wood parquet</td>
<td>61</td>
<td>65</td>
</tr>
<tr>
<td>8”slab</td>
<td>yes</td>
<td>2 Layers-3/8” plywood</td>
<td>3/4” T&amp;G oak</td>
<td>60</td>
<td>61</td>
</tr>
</tbody>
</table>

Wood-Joist Floor System

<table>
<thead>
<tr>
<th>SUSPENDED CEILING</th>
<th>ENKASONIC OVERLAY</th>
<th>FLOOR COVERING</th>
<th>STC</th>
<th>LAB TESTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>yes</td>
<td>7/16” Wonder-Board</td>
<td>tile</td>
<td>62</td>
<td>58</td>
</tr>
<tr>
<td>yes</td>
<td>1 1/4” Wonder-Board</td>
<td>tile</td>
<td>60</td>
<td>55</td>
</tr>
<tr>
<td>yes</td>
<td>1 1/2” poured gypsum*</td>
<td>tile</td>
<td>59</td>
<td>57</td>
</tr>
</tbody>
</table>

*Note: T1 isolation membrane or equivalent is bonded to the poured gypsum prior to thinsetting the tile. STC listings refer to the Ceramic Tile Institute Sound-Rated Floor Systems per bulletin CTI-R5-113-79. Details about the Sound-Rated Floor Systems listed above and others are available on request.
**Enkasonic is Easy to Install**

1. Ensure proper subfloor strength.
2. Install Perimeter Isolation Strip to prevent impact sound transmission through floor-wall contact area.
3. Place the Enkasonic over subfloor and tape joints.
4. Place the overlay on top of the Enkasonic.
5. Place the floor covering over the overlay.

*Note: See installation bulletin for complete details.*

**Roll Dimensions and Weights**

<table>
<thead>
<tr>
<th></th>
<th>inches (cm)</th>
<th>39.0* (99.1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core width</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Length</td>
<td>feet (meters)</td>
<td>111.0 (33.8)</td>
</tr>
<tr>
<td>Area</td>
<td>ft² (m²)</td>
<td>360.0 (33.5)</td>
</tr>
<tr>
<td>Roll diameter</td>
<td>inches (cm)</td>
<td>27.0 (68.6)</td>
</tr>
<tr>
<td>Gross roll weight</td>
<td>lbs. (kg)</td>
<td>58.0 (26.3)</td>
</tr>
<tr>
<td>Thickness</td>
<td>inches (cm)</td>
<td>0.4 (1.0)</td>
</tr>
<tr>
<td>Dynamic Stiffness</td>
<td>(MN/m²)</td>
<td>(28.43)</td>
</tr>
<tr>
<td>Resonant Frequency</td>
<td>Hertz</td>
<td>46.8</td>
</tr>
</tbody>
</table>

**Design and Installation Assistance**

This brochure is intended as a general information piece. For technical help, specific information, or the name of our nearest manufacturer’s representative, please contact: Colbond Inc., P.O. Box 1057, Enka, NC 28728; PH: 828-665-5050 or toll free: 800-365-7391, FAX: 828-665-5009 Email: enka-engineered@colbond.com

**Colbond Inc.**

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