Product Data Sheet

**QuietZone® Acoustic Batts**

Owens Corning offers a variety of duct systems, wraps and liners that effectively reduce noise.

**Fire Safety**
Kraft facing will burn. Do not leave exposed. Facing must be installed in substantial contact with an approved ceiling, floor or wall material. Keep open flame and other heat sources away from facing. Do not place insulation within 3" of light fixtures or similar electrical devices unless device is labeled for contact with insulation. Use only unfaced insulation between wood framing and masonry chimneys. Do not use insulation in spaces around metal chimneys, fireplaces, or flues. Unfaced insulation is considered non-combustible by model building codes. Flame Spread 25 products are flame spread rated and can be left exposed where codes allow. See package for warnings, fire hazard and installation instructions, or call 1-419-248-8234.

**Applicable Standards**
QuietZone acoustic batts comply with:
- ASTM C 665, Type II, Class C, Federal Specification HH-I-521F has been cancelled and is replaced by ASTM C 665.
- Uniform Building Code (ICBO) building types III, IV, and V
- National Building Code (BOCA) building Types 3, 4, and 5
- Standard Building Code (SBCCI) building types III, V, and VI.

Always check with your local building code official regarding local requirements affecting installation of all building components.

**Fiber Glass and Mold**
As manufactured, fiber glass insulation is resistant to mold growth. However, mold growth can occur on building materials, including insulation, when it becomes contaminated with organic material and when water is present. To avoid mold growth on fiber glass insulation, remove any water that has accumulated and correct or repair the source of that water as soon as possible. Insulation that has become wet should be inspected for evidence of residual moisture and contamination, and any insulation that is contaminated should be promptly removed and replaced.

For more information on QuietZone acoustic batts or the QuietZone Noise Control System, call 1-800-GET-PINK or visit our Web site at: www.quietzone.com

**Product Benefits:**
- Differentiate the homes you build with increased performance.
- Save homeowners time and money by suggesting noise control prior to new home construction compared to retrofitting at a later date.
- Acoustically engineered to absorb sound vibrations.
- Installed between interior walls, floors, and ceilings when constructed of standard wood framing members.

**Product Attributes**
QuietZone acoustic batts are:
- Acoustically engineered to absorb sound vibrations.
- Installed between interior walls, floors, and ceilings when constructed of standard wood framing members.

**Product Installation**
QuietZone acoustic batts are designed for interior cavities only and are not recommended for exterior walls. The facing on this product is provided for ease of installation and is not a vapor retarder.

- Insulation must fit snugly into place, filling the cavity completely.
- Staple batts along kraft flanges to the inside of the wall framing.
- In cases where wall penetrations apply, cut with a utility knife to fit around wiring, outlets, junction boxes, pipes and other obstructions.
- For desired performance, keep batts dry during shipping, storage and installation.
- QuietZone acoustic batts may be installed with the facing toward either side of interior walls, floors, or ceilings in conventional wood stud construction.
QuietZone® Acoustic Batts

**Product Data Sheet**

- **QuietZone** acoustic batts (15" or 23" width) will be required in the cavity space between wall framing sections spaced either 16" or 24" o.c.
- **Owens Corning** QuietZone acoustic batts will be required to fill the cavity space between wall framing sections spaced either 16" or 24" o.c. when using 2x6 QuietZone acoustic wall framing.

**Product Applications**

**QuietZone** Quiet Foundations™ Noise Control System

Using single 2x4 wood studs (16" o.c.), QuietZone acoustic batts, and 1/2" Type X gypsum board provides basic noise control between adjoining rooms. QuietZone acoustic batts can improve conventional wood stud walls to a Sound Transmission Class (STC) rating of 39.

**QuietZone** Quiet Retreats™ Studs, Batts, Caulk and Mat
Using QuietZone acoustic framing on 24" centers, 2x6 QuietZone acoustic wall studs, double layers 1/2" Type X gypsum drywall each side, 5 1/2" QuietZone acoustic batts. In this assembly wall performance improves to an STC rating of 63.

**Technical Design Considerations**

Acoustical performance of interior drywall partitions can be substantially improved by including a number of important design and construction details. Important details include sealing the perimeter of walls, wall intersection construction details, and the location and proper installation of electrical outlets, ducts, doors and mechanical equipment.

**Perimeter Sealing**

Seal walls on both sides at top and bottom plates with a non-hardening, permanently resilient caulking such as a butyl rubber-base compound. Where required, two layers of wallboard, properly staggered, joint compound and tape will effectively seal corners.

**Doors**

Where optimum acoustical control is desired, solid wood core doors or insulated metal doors should be specified. Door tops and sides should be gasketed with a soft weather stripping. Use of threshold closures at the bottom of the door or air seals will reduce sound transmission.

**Figure 1**

*Single wood stud, QuietZone acoustic batt insulation and a single layer of 1/2" Type X gypsum board.*

<table>
<thead>
<tr>
<th>Test No.</th>
<th>Construction Description</th>
<th>Fire Rating</th>
<th>Fire Test</th>
</tr>
</thead>
<tbody>
<tr>
<td>W5769</td>
<td>Single wood studs, resilient channel, single layer 1/2&quot; Type X gypsum drywall each side; one thickness, 3 1/2&quot; thick QuietZone Acoustic Batts</td>
<td>N.A. —</td>
<td>UL 905</td>
</tr>
<tr>
<td>W5810</td>
<td>Single wood studs, resilient channel; single layer 1/2&quot; Type X gypsum drywall each side; one thickness, 3 1/2&quot; thick QuietZone Acoustic Batts</td>
<td>N.A. —</td>
<td>OSU 4970</td>
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<tr>
<td>W5869</td>
<td>Single wood studs, resilient channel; single layer 5/8&quot; Type X gypsum drywall drywall each side; double layer other side one thickness, 3 1/2&quot; thick QuietZone Acoustic Batts</td>
<td>N.A. —</td>
<td>OSU 4970</td>
</tr>
<tr>
<td>W5879</td>
<td>Single wood studs, resilient channel; double layer 5/8&quot; Type X gypsum drywall each side, and thickness, 3 1/2&quot; thick QuietZone Acoustic Batts</td>
<td>N.A. —</td>
<td>UL 905</td>
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<tr>
<td>W5889</td>
<td>Single wood studs, resilient channel; double layer 5/8&quot; Type X gypsum drywall each side; one thickness, 3 1/2&quot; thick QuietZone Acoustic Batts</td>
<td>N.A. —</td>
<td>OSU 4970</td>
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</tbody>
</table>

*Rating is estimated from tests using thinner assemblies of fewer layers of gypsum drywall. Specific test references are available and will be provided upon request.*

**QuietZone Wall Framing System**

<table>
<thead>
<tr>
<th>Test No.</th>
<th>Construction Description</th>
<th>Fire Rating</th>
<th>Fire Test</th>
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<tbody>
<tr>
<td>E70-55087</td>
<td>2x4 QuietZone Acoustic Framing on 16&quot; centers, double layers 1/2&quot; Type X gypsum drywall each side; one thickness, 3 1/2&quot; thick QuietZone Acoustic Batts</td>
<td>N.A. —</td>
<td>UL 905</td>
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<tr>
<td>E70-55129</td>
<td>2x6 QuietZone Acoustic Framing on 16&quot; centers, double layers 1/2&quot; Type X gypsum drywall each side; one thickness, 3 1/2&quot; thick QuietZone Acoustic Batts</td>
<td>N.A. —</td>
<td>OSU 4970</td>
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<tr>
<td>E70-55102</td>
<td>2x6 QuietZone Acoustic Framing on 16&quot; centers, double layers 1/2&quot; Type X gypsum drywall each side; one thickness, 3 1/2&quot; thick QuietZone Acoustic Batts</td>
<td>N.A. —</td>
<td>UL 905</td>
</tr>
</tbody>
</table>

*Rating is estimated from tests using thinner assemblies of fewer layers of gypsum drywall. Specific test references are available and will be provided upon request.*