OPTRA ACOUSTICAL WALL PANELS

Inspiring Great Spaces™

Armstrong
CEILING SOLUTIONS
**BENEFITS**

- Available in wide range of sizes, with custom size made available to meet individual design requirements
- 18 new fabric color with two different textured fabric
- Stain & water repellent fabric
- Acoustical inner core absorbs 85% of sound striking the surface
- Easy to install over existing walls

**APPLICATION AREAS**

- Atriums/Lobby
- Theatres and Auditoriums
- Home Theatres/Sound rooms
- Conference Room
- Office
- Commercial Spaces
## PHYSICAL DATA

### Wall Panels

<table>
<thead>
<tr>
<th>Wall Panels</th>
<th>SQUARE EDGE</th>
<th>BEVELED EDGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>600 x 600 x 25mm</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>600 x 1200 x 25mm</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>600 x 1800 x 25mm</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>600 x 2100 x 25mm</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>600 x 600 x 40mm</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>600 x 1200 x 40mm</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>600 x 1800 x 40mm</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>600 x 2100 x 40mm</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>600 x 2700 x 40mm</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>

*Custom sizes available. Please contact Armstrong representative for custom size options & lead time.

### Noise Reduction Coefficient (NRC)

<table>
<thead>
<tr>
<th><strong>NRC</strong></th>
<th>125</th>
<th>250</th>
<th>500</th>
<th>1000</th>
<th>2000</th>
<th>4000</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.70</td>
<td>0.75</td>
<td>0.08</td>
<td>0.49</td>
<td>0.72</td>
<td>0.84</td>
<td>0.79</td>
</tr>
</tbody>
</table>

Class A, ASTM E84

### Impact Resistance

**\( \alpha_w \)**

- *Hi IMPACT SOUNDSOAK WALLS (25mm)*
- 0.75
- 0.70
- 0.08
- 0.49
- 0.72
- 0.84
- 0.79
- 0.86

### Fabric Color Selection

#### Zen
- 2022-045 Mercury
- 2022-033 Sand
- 2022-001 Barana
- 2022-013 Petroleum
- 2022-034 Oatmeal
- 2022-004 Blueberry
- 2022-502 Crimson

#### Cosmos
- 5044-26 Moonshadow
- 5044-23 Cashmere
- 5044-07 Marigold
- 5044-17 Mercury
- 5044-18 Granite
- 5044-03 Walnut
- 5044-01 Suede
- 5044-16 Pool
- 5044-10 Rouge
APPLICATION AREAS

Theatres and Auditoria:
45% wall panel cladding offers excellent noise control in Cinemas and Auditoriums.

Conference room and home theatres:
At least 15-25% coverage is recommended in home theatres and conference room Optra panels with its superior texture can be used to create a sense of warmth along with excellent voice clarity.

Office and Commercial spaces:
10-15% cladding using Optra wall panels is suitable for general purpose coverage and commercial spaces. Create patterns on the wall thereby combining functionality.
INSTALLATION OPTIONS

OPTRA ACOUSTIC WALLS - ACOUSTICAL PERFORMANCE

Optra Acoustic Walls Panels absorb 85% of sound striking the surface - reducing noise within a space and reducing noise transfer between spaces and places desiring the practicality of a tackable surface.

OPTION 1 : INSTALLATION WITH SURFACE IMPLAERS

Optra Acoustic Walls systems are easy to install over existing walls or directly to studs with minimal workplace disruption. Standard installation method is with impalers. J or Z splines can be used to create an exposed system.

1. Sand the wall surface to remove surface imperfections/loose particles to enable greater bonding of the adhesive.
2. Clean the wall of dust. Apply a coat of primer and allow to dry.
3. Mark the location of each panel on the wall.
4. Apply silicon caulk or a similar adhesive/sealant using a gun-dispenser on the back of the panel and on the wall.
5. Carefully align the wall panels against the marked locations on the wall and press the panel against the wall till it is fixed tightly. Remove excess adhesive.

WALL MOUNTING: Place top edge on set line. Carefully swing bottom edge to meet impaler heads. With the panel resting on the impaler darts, apply inwards and downward pressure.

IMPALE LOCATION ON PANEL: Flush mount impaler clips should be located approximately 4 inches (102mm) or more from the panel edges.

Recommended no. of impalers per panel

<table>
<thead>
<tr>
<th>SIZE</th>
<th>No. of impalers</th>
</tr>
</thead>
<tbody>
<tr>
<td>600 X 600 X 25mm</td>
<td>3</td>
</tr>
<tr>
<td>600 X 600 X 50mm</td>
<td>3</td>
</tr>
<tr>
<td>1200 X 25mm</td>
<td>4</td>
</tr>
<tr>
<td>1200 X 50mm</td>
<td>4</td>
</tr>
<tr>
<td>1800 X 25mm</td>
<td>5</td>
</tr>
<tr>
<td>1800 X 50mm</td>
<td>5</td>
</tr>
<tr>
<td>2100 X 25mm</td>
<td>5</td>
</tr>
<tr>
<td>2100 X 50mm</td>
<td>5</td>
</tr>
</tbody>
</table>

OPTION 2 : INSTALLATION WITH SILICON ADHESIVE

Optra Walls can also be affixed to the wall using superior quality construction adhesive, as follows:
1. Sand the wall surface to remove surface imperfections/loose particles to enable greater bonding of the adhesive.
2. Clean the wall of dust. Apply a coat of primer and allow to dry.
3. Mark the location of each panel on the wall.
4. Apply silicon caulk or a similar adhesive/sealant using a gun-dispenser on the back of the panel and on the wall.
5. Carefully align the wall panels against the marked locations on the wall and press the panel against the wall till it is fixed tightly. Remove excess adhesive.
OPTRA ACOUSTICAL WALL PANELS ADVANTAGE

• Optra surface & edges to provide sustain impact in public spaces
• Superior acoustics for your conference room, recording room, home theaters, cinema Halls, auditorium etc.
• All new range of 18 fabric colors with two different textures to choose from
• Stain & Water repellent finishing
• Easy installation using surface impalers eliminates costly and time consuming framing for wall panels
• Fire resistant fabric for better fire performance
• Acoustic walls absorbs 85% of sound striking the surface

CONTACT US

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