SHAPE UP
the Character of Your Space

Deliver acoustics in playful installations with SoundScapes® Shapes, available in a variety of shapes, angles, colors, and sizes. Use grouping frame kits to combine standard shapes into unique patterns to transform your space.

► New 60-degree triangle, trapezoid, and parallelogram shapes and grouping frame alignment kit enhance exposed structure spaces with exciting on-trend geometric designs
► Aesthetically define spaces with superior engineered solutions that have excellent acoustical performance – 1.18 Sabins/SF
► Standard items available in 13 shapes and 14 colors – custom shapes, sizes, and colors also available
► Fast and easy installation to deck, drywall, standard suspension system, or wall in adjustable heights and angles
► Lighting integration options available through our partners
► 360-degree panel finishing capability available

Unique Patterns
Acoustics & AESTHETICS

These geometric designs offer maximum design flexibility and excellent acoustical performance for exposed structure spaces.

In the following pages, see how easy it is to combine standard shapes to create unique patterns for a custom visual.

Then go to armstrongceilings.com/soundscapesshapes to download detailed layout drawings. There you’ll find specific information, including bill of materials for each pattern, so you can reinvent your ceiling without the guesswork.

SOUNDSCAPES® SHAPES NOISE REDUCTION

<table>
<thead>
<tr>
<th>Reverberation Time (RT)</th>
<th>GOOD*&lt;br&gt;RT=1.4s</th>
<th>BETTER**&lt;br&gt;RT=1.0s</th>
<th>BEST***&lt;br&gt;RT=0.6s</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,000 ft² Exposed Structure (15’ to metal deck), drywall with 20% window coverage, commercial carpet</td>
<td>12</td>
<td>23</td>
<td>49</td>
</tr>
<tr>
<td># of 48” x 48” Shapes</td>
<td>19%</td>
<td>37%</td>
<td>78%</td>
</tr>
</tbody>
</table>

* Long RTs (≤ 1.4 sec) = for lively acoustic environments (auditoriums/hospitality)
** Short RTs (< 1 sec) = high-quality speech intelligibility (classrooms/open plan spaces)
SOUNDSCAPES® Shapes

60 Degree Panels

SOUNDSCAPES Shapes – Pattern SSSH 1
SOUNDSCAPES SHAPES USED IN THIS PATTERN:
60 degree Parallelogram – 21 pcs
5451 Grouping Frame Kit – 6 ctns
GROUPING SIZE: 20'-10" length x 20'-0" width
SPACER FRAME ALIGNMENT: 60 degrees

SOUNDSCAPES Shapes – Pattern SSSH 2
SOUNDSCAPES SHAPES USED IN THIS PATTERN:
60 degree Parallelogram – 21 pcs
60 degree Triangle – 2 pcs
5451 Grouping Frame Kit, 6 ctns
GROUPING SIZE: 24'-1" length x 13'-10" width
SPACER FRAME ALIGNMENT: 60 degrees
SOUNDSCAPES® Shapes

60 Degree Panels

SOUNDSCAPES Shapes – Pattern SSSH 3
SOUNDSCAPES SHAPES USED IN THIS PATTERN:
60 degree Parallelogram – 27 pcs
60 degree Trapezoid – 6 pcs
5451 Grouping Frame Kit – 10 ctns
GROUPING SIZE: 32'-1" length x 27'-10" width
SPACER FRAME ALIGNMENT: 60 degrees

SOUNDSCAPES Shapes – Pattern SSSH 4
SOUNDSCAPES SHAPES USED IN THIS PATTERN:
60 degree Trapezoid – 12 pcs
5451 Grouping Frame Kit – 21 ctns
GROUPING SIZE: 24'-0" length x 20'-9" width
SPACER FRAME ALIGNMENT: 60 degrees
SOUNDSCAPES® Shapes

60 Degree Panels

SOUNDSCAPES Shapes – Pattern SSSH 5
SOUNDSCAPES SHAPES USED IN THIS PATTERN:
60 degree Parallelogram – 18 pcs
60 degree Triangle – 18 pcs
5451 Grouping Frame Kit – 12 ctns
GROUPING SIZE: 28'-2" length x 27'-10" width
SPACER FRAME ALIGNMENT: 60 degrees

SOUNDSCAPES Shapes – Pattern SSSH 6
SOUNDSCAPES SHAPES USED IN THIS PATTERN:
60 degree Parallelogram – 15 pcs
60 degree Triangle – 6 pcs
60 degree Trapezoid – 2 pcs
5451 Grouping Frame Kit – 6 ctns
GROUPING SIZE: 20'-10" length x 20'-1" width
SPACER FRAME ALIGNMENT: 60 degrees

View Ceiling Plan Drawing >
SOUNDSCAPES® Shapes

60 Degree Panels

SOUNDSCAPES Shapes – Pattern SSSH 7
SOUNDSCAPES SHAPES USED IN THIS PATTERN:
- 60 degree Triangle – 4 pcs
- 60 degree Trapezoid – 6 pcs
- 5451 Grouping Frame Kit, 3 ctns
GROUPING SIZE: 16'-0” length x 13'-10” width
SPACER FRAME ALIGNMENT: 60 degrees

SOUNDSCAPES Shapes – Pattern SSSH 8
SOUNDSCAPES SHAPES USED IN THIS PATTERN:
- 60 degree Trapezoid – 6 pcs
- 5451 Grouping Frame Kit – 4 ctns
GROUPING SIZE: 16'-0” length x 13'-10” width
SPACER FRAME ALIGNMENT: 60 degrees
SOUNDCAPES® Shapes

60 Degree Panels

SOUNDCAPES Shapes – Pattern SSSH 9
SOUNDCAPES SHAPES USED IN THIS PATTERN:
60 degree Triangle – 6 pcs
60 degree Parallelogram – 12 pcss
5451 Grouping Frame Kit – 6 ctns
GROUPING SIZE: 20'-10" length x 20'-1" width
SPACER FRAME ALIGNMENT: 60 degrees

SOUNDCAPES Shapes – Pattern SSSH 10
SOUNDCAPES SHAPES USED IN THIS PATTERN:
60 degree Trapezoid – 6 pcs
5451 Grouping Frame Kit – 3 ctns
GROUPING SIZE: 15'-11" length x 13'-10" width
SPACER FRAME ALIGNMENT: 60 degrees
SOUNDSCAPES® Shapes

60 Degree Panels

SOUNDSCAPES Shapes – Pattern SSSH 11
SOUNDSCAPES SHAPES USED IN THIS PATTERN:
60 degree Parallelogram – 27 pcs
5451 Grouping Frame Kit – 8 ctns
GROUPING SIZE: 24'-1" length x 20'-10" width
SPACER FRAME ALIGNMENT: 60 degrees

SOUNDSCAPES Shapes – Pattern SSSH 12
SOUNDSCAPES SHAPES USED IN THIS PATTERN:
60 degree Parallelogram – 4 pcs
60 degree Triangle – 2 pcs
60 degree Trapezoid – 2 pcs
5451 Grouping Frame Kit – 3 ctns
GROUPING SIZE: 13'-10" length x 11'-10" width
SPACER FRAME ALIGNMENT: 60 degrees
SOUNDSCAPES® Shapes

60 Degree Panels

SOUNDSCAPES Shapes – Pattern SSSH 13
SOUNDSCAPES SHAPES USED IN THIS PATTERN:
60 degree Parallelogram – 1 pc
60 degree Triangle – 2 pcs
60 degree Trapezoid – 4 pcs
5451 Grouping Frame Kit – 3 ctns
GROUPING SIZE: 13'-10" length x 11'-10" width
SPACER FRAME ALIGNMENT: 60 degrees

View Ceiling Plan Drawing>

SOUNDSCAPES Shapes – Pattern SSSH 14
SOUNDSCAPES SHAPES USED IN THIS PATTERN:
60 degree Triangle – 12 pcs
60 degree Trapezoid – 12 pcs
5451 Grouping Frame Kit – 7 ctns
GROUPING SIZE: 24'-0" length x 20'-10" width
SPACER FRAME ALIGNMENT: 60 degrees

View Ceiling Plan Drawing>
SOUNDSCAPES® Shapes

60 Degree Panels

SOUNDSCAPES Shapes – Pattern SSSH 15
SOUNDSCAPES SHAPES USED IN THIS PATTERN:
60 degree Triangle – 8 pcs
60 degree Parallelogram – 22 pcs
5451 Grouping Frame Kit – 8 ctns
GROUPING SIZE: 27'-9" length x 24'-0" width
SPACER FRAME ALIGNMENT: 60 degrees

90 Degree Panels

SOUNDSCAPES Shapes – Pattern SSSH 16
SOUNDSCAPES SHAPES USED IN THIS PATTERN:
90 degree 48" x 48" Square – 4 pcs
5451 Grouping Frame Kit – 1 ctn
GROUPING SIZE: 7'-10" length x 7'-10" width
SPACER FRAME ALIGNMENT: 90 degrees
SOUNDSCAPES® Shapes

90 Degree Panels

SOUNDSCAPES Shapes – Pattern SSSH 17
SOUNDSCAPES SHAPES USED IN THIS PATTERN:
90 degree 48” x 48” Square – 4 pcs
5451 Grouping Frame Kit – 1 ctn
GROUPING SIZE: 15’10” length x 3’10” width
SPACER FRAME ALIGNMENT: 90 degrees

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View Ceiling Plan Drawing >

SOUNDSCAPES Shapes – Pattern SSSH 18
SOUNDSCAPES SHAPES USED IN THIS PATTERN:
90 degree 48” x 48” Square – 9 pcs
5451 Grouping Frame Kit – 2 ctns
GROUPING SIZE: 11’-10” length x 11’-10” width
SPACER FRAME ALIGNMENT: 90 degrees

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View Ceiling Plan Drawing >
SOUNDSCAPES® Shapes

90 Degree Panels

SOUNDSCAPES Shapes – Pattern SSSH 19

SOUNDSCAPES SHAPES USED IN THIS PATTERN:
90 degree 48” x 48” Square – 2 pcs
90 degree 48” x 72” Rectangle – 2 pcs
5451 Grouping Frame Kit – 1 ctn

GROUPING SIZE: 9’-10” length x 7’-10” width
SPACER FRAME ALIGNMENT: 90 degrees

View Ceiling Plan Drawing >

SOUNDSCAPES Shapes – Pattern SSSH 20

SOUNDSCAPES SHAPES USED IN THIS PATTERN:
90 degree Hexagon – 7 pcs
5451 Grouping Frame Kit – 2 ctns

GROUPING SIZE: 10’-10” length x 11’-4” width
SPACER FRAME ALIGNMENT: 90 degrees

View Ceiling Plan Drawing >
SOUNDSCAPES® Shapes

Acoustical Clouds

Deliver acoustics in playful installations with angles, layers, shapes, sizes, and colors.

KEY SELECTION ATTRIBUTES

- Now available in triangle, trapezoid, and parallelogram shapes
- 360° panel finishing capability available
- Aesthetically define spaces with excellent acoustical performance up to 1.18 Sabins/SF
- High light reflectance for White panels – 0.90
- Quick to install from the deck, drywall, suspension system, or on a wall in adjustable heights and angles
- Grouping Frame Kit provides superior rigidity, perfect alignment, minimizes hanging points, ensures consistent panel spacing, and is engineered for use in DEF Seismic zones
- Pre-qualified for fit-and-finish lighting integration with Focal Point® Seem® 1 light
- Adjustable to various heights and angles
- Excellent panel construction and innovative, pre-engineered grouping frames take the thinking and risk out of installation

COLORS

Due to printing limitations, shade may vary from actual product.
### PANEL OPTIONS – 90 DEGREES

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>5440</td>
<td>Square – 7/8” thick panel</td>
</tr>
<tr>
<td>5441</td>
<td>Convex – 7/8” thick panel</td>
</tr>
<tr>
<td>5442</td>
<td>Concave – 7/8” thick panel</td>
</tr>
<tr>
<td>5443</td>
<td>Circle – 7/8” thick panel</td>
</tr>
<tr>
<td>5444</td>
<td>Hexagon – 7/8” thick panel</td>
</tr>
<tr>
<td>5445</td>
<td>Trapezoid – 7/8” thick panel</td>
</tr>
<tr>
<td>5635</td>
<td>Square – 6” Radius cut corner, 7/8” thick panel</td>
</tr>
</tbody>
</table>

### PANEL OPTIONS – 60 DEGREES

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>7101P01</td>
<td>Parallelogram – 7/8” thick panel</td>
</tr>
<tr>
<td>7101T01</td>
<td>Triangle – 7/8” thick panel</td>
</tr>
<tr>
<td>7101Z01</td>
<td>Trapezoid – 7/8” thick panel</td>
</tr>
</tbody>
</table>

### CUSTOM SHAPES

Create your own shapes!

For assistance, call TechLine at 1 877 276-7876.

### DESIGN IDEAS

- Item 5692
- Item 5693
- Item 5694

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*NOTE: Add 2-letter color suffix when specifying or ordering (e.g. 5440 W H for square panel in White). Concealed hardware with 360° finishing available on all shapes except Hexagon. When grouping 90-degree shapes with the 5453D090 Frame Alignment Kit, you cannot combine with 60-degree shapes.*
### ACCESSORY KITS

Applications always require more than one kit.

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Description</th>
<th>Kit Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>5450</td>
<td>Deck Hanging Kit</td>
<td>(2) gripper structure anchors (2) gripper structure caps (2) 8’ aircraft cables (2) bottom end cable adjusters (2) nuts with washers</td>
</tr>
<tr>
<td>7121</td>
<td>Angled Hanging Kit (60° maximum angle)</td>
<td>(2) angled hanging cables</td>
</tr>
<tr>
<td>5438</td>
<td>Angled Hanging Kit (10° maximum angle)</td>
<td>For use when hanging panels at different angles. Extends from the end of Deck Hanging Kit (5450).</td>
</tr>
<tr>
<td>625530</td>
<td>Extended Hanging Cables</td>
<td>(4) 30’ aircraft cables</td>
</tr>
<tr>
<td>7006</td>
<td>Escutcheon Kit</td>
<td>(2) collars with setscrews (2) 2” escutcheons</td>
</tr>
<tr>
<td>5451</td>
<td>Grouping Frames Kit</td>
<td>Suspension frames used to group panels together. (4) suspension frames, 12’ long, Black (BL) or White (WH)</td>
</tr>
<tr>
<td>5452</td>
<td>Frame Splice Kit</td>
<td>Connects group suspension frames for longer runs (&gt; 12 feet). (2) group frame connectors, 10” long, Black (BL) or White (WH) (4) bolts with washers (4) nuts</td>
</tr>
<tr>
<td>5453D060</td>
<td>Frame Alignment Kit – 60 degrees</td>
<td>For use with group suspension frames and 60-degree shapes only. Clear finish to coordinate with either black or white suspension frames. (4) frame alignment spacers, clear plastic (4) bolts (4) nuts with washers</td>
</tr>
<tr>
<td>5453D090</td>
<td>Frame Alignment Kit – 90 degrees</td>
<td>For use with group suspension frames and 90-degree shapes only. Clear finish to coordinate with either black or white suspension frames.</td>
</tr>
<tr>
<td>5454</td>
<td>Panel Hook Kit</td>
<td>For use with grouping frames All panels require 1 kit. Item 5449 (Large Rectangle) and item 7101Z01 (60 degree Trapezoid) require two kits. (2) 4-1/2” high panel hooks, Black (BL) or White (WH) (2) 3-1/2” high panel hooks, Black (BL) or White (WH) (8) bolts</td>
</tr>
<tr>
<td>5629</td>
<td>Multi-plane Hanging Kits</td>
<td>5629 1” Drop Hook Kit 5630 2” Drop Hook Kit 5631 3” Drop Hook Kit (2) 4-1/2” hooks (2) 5-1/2” hooks (2) 6-1/2” hooks (8) screws (8) screws (8) screws</td>
</tr>
<tr>
<td>5630</td>
<td>Panel Hook Kit (5454)</td>
<td>For use when hanging panels at heights below 5629 1” Drop Hook Kit 5630 2” Drop Hook Kit 5631 3” Drop Hook Kit (2) 4-1/2” hooks (2) 5-1/2” hooks (2) 6-1/2” hooks (8) screws (8) screws (8) screws</td>
</tr>
<tr>
<td>5631</td>
<td>Panel Hook Kit (5454)</td>
<td>For use when hanging panels at heights below 5629 1” Drop Hook Kit 5630 2” Drop Hook Kit 5631 3” Drop Hook Kit (2) 4-1/2” hooks (2) 5-1/2” hooks (2) 6-1/2” hooks (8) screws (8) screws (8) screws</td>
</tr>
<tr>
<td>5455</td>
<td>Drywall Ceiling Hanging Kit</td>
<td>For individual panel attachment to drywall. (2) drywall clip assemblies (2) shoulder bolts</td>
</tr>
<tr>
<td>5588</td>
<td>Wall Hanging Kit</td>
<td>For individual panel attachment to a wall. (4) clip assemblies (4) shoulder bolts</td>
</tr>
<tr>
<td>5632</td>
<td>Grid Hook Kit</td>
<td>For hanging individual panels from a standard suspension system. (4) hooks (8) screws</td>
</tr>
</tbody>
</table>

**NOTE:** Accessory kit hardware is attached to panels via the metal extrusion or corner brackets on the back of each panel. The diagram on the right shows the location of extrusions and corner brackets in the back of a nominal 4’ x 4’ panel. See installation instructions BPLA-297302 for more details.

If you need assistance identifying what and how many accessory kits are needed for your project, please contact TechLine customer support at 1 877 276-7876.

* Indicate desired color using two digit color code when ordering; BL = Black; WH = White
SOUNDSCAPES® Shapes
Acoustical Clouds

HUNDREDS OF WAYS TO CONFIGURE SOUNDSCAPES® SHAPES PANELS

Individual Suspension

Three Items 5443 in White

Individual Attachment to Drywall or Solid Surface

Two Items 5440 and 5448 in Tangerine (upper wall and ceiling)

Group Suspension

Items 5441 and 5442 in White

ACCESSORY KITS All accessory kits are ordered separately.

Deck Hanging Kit (5450)

Drywall Hanging Kit (5455)

Wall Hanging Kit (5588)

Deck Hanging Kit (5450)

Grouping Frames Kit (5451)

Frame Alignment Kit (5453D090)

Panel Hook Kit (545 _ _ )

Grouping Frames Kit (5451 _ _ )

Frame Alignment Kit (5453D090)

Panel Hook Kit (545 _ _ )

Decks and Hanging Kits

Integrated Light SoundScapes Shapes panel

Integrated Light SoundScapes Shapes panel

Integrated Light SoundScapes Shapes panel

Detail B

Detail A

1.166

1.175

PHYSICAL DATA

Material
7/8" thick fiberglass with DuraBrite® scrim on face and sides or custom 1-3/4" thick fiberglass with DuraBrite scrim on all sides (360º finishing). To order custom panels, contact TechLine at 1 877 276-7876.

Surface Finish
DuraBrite scrim with factory-applied paint on face and sides. Standard White has energy-saving, high light-reflective finish (LR 0.90). Back of panel is unfinished with embedded metal extrusions.

Fire Performance
SoundScapes® Shapes panel material is ASTM E84 Class A: Flame Spread 25 or under and Smoke Developed 50 or less.

Surface Burning Characteristics: Flame Spread Rating 25 or less. Smoke Developed Classification 50 or less.

SoundScapes Shapes acoustical clouds, as with other architectural features located in the ceiling plane, may obstruct or skew the existing or planned fire sprinkler water distribution pattern, or possibly delay the activation of the fire sprinkler or fire detection system. Consult a fire protection engineer, NFPA 13, and local codes for guidance on the proper installation techniques where fire detection or suppression systems are present.

ASTM E1264 Classification
Type X II, Form 2, Pattern E

High Recycled Content
Contains greater than 56% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

Acoustical Performance
Standard Shapes – 1.18 Sabins/SF; 360° finished Shapes – 1.47 Sabins/SF; color shapes have slightly reduced acoustical performance.

Design Considerations
SoundScapes Shapes acoustical clouds maintain a natural sag that may be noticeable when installed 6" or less apart. Deflection up to 1/8" has been documented in some cases. SoundScapes Shapes available with 360º finishing for use in areas where panel back is exposed (can only be installed with included individual suspension).

Special care in installation and handling must be taken with color shapes to avoid surface damage to the paint finish. Custom colors are available. Custom shapes are available by providing a custom shape drawing within guidelines and sending to TechLine. Call 1 877 276-7876 for assistance.

Seismic Restraint
Refer to ASCE 7-10, Section 13.5 Architectural Components for seismic requirements. Section 13.5, Item 2 refers to 13.2.3 Consequential Damage.

Suspension Systems
SoundScapes Shapes acoustical clouds are pre-assembled with metal extrusions in the back of the panels. Standard accessory kits facilitate quick and easy installation from the deck, through a ceiling, or directly attached to drywall. See Installation Instructions BPLA-297302 for installation details.

Warranty
Details at armstrongceilings.com

Panel Weight
90-Degree Shapes: 0.63 lbs/SF
7101P01: 11.1 lbs/pc
7101T01: 5.6 lbs/pc
7101Z01: 16.4 lbs/pc

Lighting Integration Details

Lighting Fixtures
Compatible with Focal Point® Seem® 1 LED light fixture.

For detailed lighting information, contact your local Focal Point® Lighting representative.
TAKE THE NEXT STEP

1 877 276 7876
Customer Service Representatives
7:45 a.m. to 5:00 p.m. EST
Monday through Friday

TechLine – Technical information, detail drawings, CAD design assistance, installation information, other technical services – 8:00 a.m. to 5:30 p.m. EST, Monday through Friday. FAX 1 800 572 8324 or email: techline@armstrongceilings.com

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Detail drawings
Specifications
Planning and budgeting

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Layout drawings for standard and premium products
Project installation recommendations
Contractor installation assistance

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Inspiring Great Spaces®

On the cover: SoundScapes Shapes – 60 degree Shapes with Focal Point® Seem® 1” Lighting Integration