

# Ride the easiest Waves on earth

Now you can "Hang 10" without a surfboard. Enhance your space with the visual power of a wave with our pre-engineered Serpentina® Waves™. Now available in ready-to-install kits.

Waves is a curved, extruded aluminum monolithic ceiling "wave" that features flexible large-size panels. The large-size panels cover any grid components for a seamless look. Choose the Wave size that works best for your project.

Choose from one of 60 kitted Wave options using just a single item number. Everything needed for installation is in the kit – pre-cut and ready to go. Wave sizes available in kits range from 4' x 4' up to 12' x 12'. Your Wave in a Kit can be a Hill, Valley or combination, with either a 30 or 45-degree arc.

If none of our kit-sized Waves work for your project, you can create other Wave sizes, lengths and arcs using standard Serpentina.



Cover photo and right: 12' x 8' combination Hill/Valley Wave Kit features 12' x 2' R042 Perforated Panels in Slate. The Avenue at Armstrong World Industries, Lancaster, PA



## Choose your Wave

Waves are available in Hills, Valleys and Hill/Valley combinations.

Follow these simple steps to select your Serpentina Wave design:

Step 1: Define the space available for your design. Always leave 12" clearance from any adjacent wall.

**Step 2**: Select your Wave size/configuration.

- See pages 5-7 for sizes available in kits\*
- See page 8 for other sizes available

**Step 3**: Select your infill panel/ perforation.

Step 4: Select your color.

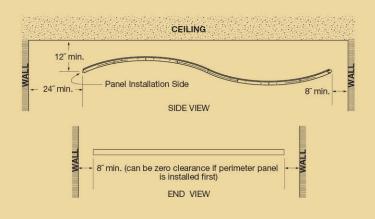
\*Kits available only with a 30 or 45 degree angle

# Step 1: Define your space

12′ x 6′ combination Hill/Valley Wave with 2′ x 12′ R042 Perforated Panels in Silver Satin. REG Architects, West Palm Beach, FL

**To define the size**, consider the dimensions of the space you're addressing:

- A minimum horizontal distance of 24" is required on the straight perimeter end where the panels will be installed.
- A 12" minimum vertical distance to the ceiling is required above the straight perimeter trim where the panels will be installed.
- A minimum distance of 8" is needed on the remaining three sides of the Serpentina Waves cloud. This is to allow installation of our perimeter hold-down clips. The clearance on the sides can be eliminated by installing the perimeter panels before the adjacent field panels.



# Step 2: Select your Wave size

Check the "Kit Options" charts on pages 5 – 7 to see which size and configuration best suits your design intent. Remember, if there's not a configuration on the chart that suits, you can still create a Wave using standard Serpentina components, shown on page 8.

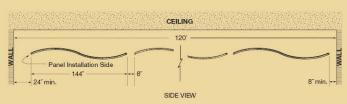
### Example:

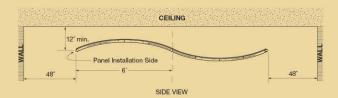
**Your Space** is 80' x 120'. You want the two rows to come across the 120' length as though mimicking multiple waves coming ashore. Your working area, once you deduct 24" from one wall and 8" from the opposite, is 1408" or 117'4". In the example below you'll be working right to left.

**Your Space** is 20' x 30'. You want to create a Wave in the center of the space like a floating cloud.

Option: Select a 12' x 12' Wave kit

**Option**: Choose eighteen 12' x 8' Hill/Valley combos





# Kit Options – Step 2: Select your Wave size

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<b> </b>		$\overline{}$				
Direction of Arc/	Hill	Valley	Hill/Valley Combo	Arc		
Size/Type	(SH)	(SV)	(SW)	Degree	Description	Item Number
·	•			30	Hill with 30° arc	SH300404XXXXYY
	•			45	Hill with 45° arc	SH450404XXXXYY
4' × 4'		•		30	Valley with 30° arc	SV300404XXXXYY
		•		45	Valley with 45° arc	SV450404XXXXYY
	•			30	Hill with 30° arc	SH300604XXXXYY
	•			45	Hill with 45° arc	SH450604XXXXYY
		•		30	Valley with 30° arc	SV300604XXXXYY
6' x 4'		•		45	Valley with 45° arc	SV450604XXXXYY
	•			30	Hill with 30° arc	SH300804XXXXYY
	•			45	Hill with 45° arc	SH450804XXXXYY
		•		30	Valley with 30° arc	SV300804XXXXYY
		•		45	Valley with 45° arc	SV450804XXXXYY
			•	30	Hill/Valley with 30° arc	SW300804XXXXYY
8' x 4'			•	45	Hill/Valley with 45° arc	SW450804XXXXYY
	•			30	Hill with 30° arc	SH301004XXXXYY
	•:			45	Hill with 45° arc	SH451004XXXXYY
1		•		30	Valley with 30° arc	SV301004XXXXYY
10′ x 4′		•		45	Valley with 45° arc	SV451004XXXXYY
	•			30	Hill with 30° arc	SH301204XXXXYY
	•			45	Hill with 45° arc	SH451204XXXXYY
		•		30	Valley with 30° arc	SV301204XXXXYY
		•		45	Valley with 45° arc	SV451204XXXXYY
			•	30	Hill/Valley with 30° arc	SW301204XXXXYY
12' x 4'			•	45	Hill/Valley with 45° arc	SW451204XXXXYY
	•			30	Hill with 30° arc	SH300406XXXXYY
	•			45	Hill with 45° arc	SH450406XXXXYY
		•		30	Valley with 30° arc	SV300406XXXXYY
4' x 6'		٠		45	Valley with 45° arc	SV450406XXXXYY
	•			30	Hill with 30° arc	SH300606XXXXYY
	•			45	Hill with 45° arc	SH450606XXXXYY
		•		30	Valley with 30° arc	SV300606XXXXYY
6′ x 6′		*		45	Valley with 45° arc	SV450606XXXXYY
	•			30	Hill with 30° arc	SH300806XXXXYY
	•			45	Hill with 45° arc	SH450806XXXXYY
		•		30	Valley with 30° arc	SV300806XXXXYY
		•		45	Valley with 45° arc	SV450806XXXXYY
			•	30	Hill/Valley with 30° arc	SW300608XXXXYY
8′ x 6′			•	45	Hill/Valley with 45° arc	SW450806XXXXYY
	•			30	Hill with 30° arc	SH301006XXXXYY
	•			45	Hill with 45° arc	SH451006XXXXYY
		•		30	Valley with 30° arc	SV301006XXXXYY
10′ x 6′		•		45	Valley with 45° arc	SV451006XXXXYY
10′ x 6′		•		45		

# Kit Options - Step 2: Select your Wave size (continued)

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			Hill/Valley			
Direction of Arc/ Size/Type	Hill	Valley (SV)	Combo (SW)	Arc Degree	Description	Item Number
Size/Type	(SH)	(30)	(300)		Description	
	•			30	Hill with 30° arc	SH301206XXXXYY
	•			45	Hill with 45° arc	SH451206XXXXYY
		•		30	Valley with 30° arc	SV301206XXXXYY
		•		45	Valley with 45° arc	SV451206XXXXYY
			•	30	Hill/Valley with 30° arc	SW301206XXXXYY
12' x 6'			•	45	Hill/Valley with 45° arc	SW451206XXXXYY
	•			30	Hill with 30° arc	SH300408XXXXYY
	•			45	Hill with 45° arc	SH450408XXXXYY
		•		30	Valley with 30° arc	SV300408XXXXYY
4' x 8'		•		45	Valley with 45° arc	SV450408XXXXYY
	•			30	Hill with 30° arc	SH300608XXXXYY
	•			45	Hill with 45° arc	SH450608XXXXYY
		•		30	Valley with 30° arc	SV300608XXXXYY
6′ x 8′		•		45	Valley with 45° arc	SV450608XXXXYY
	•			30	Hill with 30° arc	SH300808XXXXYY
	•			45	Hill with 45° arc	SH450808XXXXYY
		•		30	Valley with 30° arc	SV300808XXXXYY
		•		45	Valley with 45° arc	SV450808XXXXYY
			•	30	Hill/Valley with 30° arc	SW300808XXXXYY
8' x 8'			•	45	Hill/Valley with 45° arc	SW450808XXXXYY
	•			30	Hill with 30° arc	SH301008XXXXYY
	•			45	Hill with 45° arc	SH451008XXXXYY
	,	•		30	Valley with 30° arc	SV301008XXXXYY
10' x 8'		•		45	Valley with 45° arc	SV451008XXXXYY
	•			30	Hill with 30° arc	SH301208XXXXYY
	•			45	Hill with 45° arc	SH451208XXXXYY
		•		30	Valley with 30° arc	SV301208XXXXYY
		•		45	Valley with 45° arc	SV451208XXXXYY
	*		•	30	Hill/Valley with 30° arc	SW301208XXXXYY
12' x 8'			•	45	Hill/Valley with 45° arc	SW451208XXXXYY
	•	U.		30	Hill with 30° arc	SH300410XXXXYY
	•			45	Hill with 45° arc	SH450410XXXXYY
		•		30	Valley with 30° arc	SV300410XXXXYY
4' x 10'		•		45	Valley with 45° arc	SV450410XXXXYY
	•			30	Hill with 30° arc	SH300610XXXXYY
	•			45	Hill with 45° arc	SH450610XXXXYY
		•		30	Valley with 30° arc	SV300610XXXXYY
6' x 10'		•		45	Valley with 45° arc	SV450610XXXXYY
	•			30	Hill with 30° arc	SH300810XXXXYY
	•			45	Hill with 45° arc	SH450810XXXXYY
		•		30	Valley with 30° arc	SV300810XXXXYY
		•		45	Valley with 45° arc	SV450810XXXXYY
			•	30	Hill/Valley with 30° arc	SW300810XXXXYY
8' x 10'			•	45	Hill/Valley with 45° arc	SW450810XXXXYY
3 7 10				40	Tilli/ Valley With 45 arc	GVV+000TOXXXXTT

XXXX = Perforation Pattern, see page 9 to select your pattern YY = Color, see page 10 to select your color

# Kit Options - Step 2: Select your Wave size (continued)

Direction of Arc/	Hill (SH)	Valley (SV)	Hill/Valley Combo (SW)	Arc Degree	Description	ltem Number
	•			30	Hill with 30° arc	SH301010XXXXYY
	•			45	Hill with 45° arc	SH451010XXXXYY
		•		30	Valley with 30° arc	SV301010XXXXYY
10′ X 10′		•		45	Valley with 45° arc	SV451010XXXXYY
	•			30	Hill with 30° arc	SH301210XXXXYY
	•			45	Hill with 45° arc	SH451210XXXXYY
		•		30	Valley with 30° arc	SV301212XXXXYY
		•		45	Valley with 45° arc	SV451212XXXXYY
			•	30	Hill/Valley with 30° arc	SW301212XXXXYY
12' x 10'			•	45	Hill/Valley with 45° arc	SW451212XXXXYY
	•			30	Hill with 30° arc	SH300412XXXXYY
	•			45	Hill with 45° arc	SH450412XXXXYY
		•		30	Valley with 30° arc	SV300412XXXXYY
4' x 12'		•		45	Valley with 45° arc	SV450412XXXXYY
	•			30	Hill with 30° arc	SH300612XXXXYY
	•			45	Hill with 45° arc	SH450612XXXXYY
		•		30	Valley with 30° arc	SV300612XXXXYY
6' x 12'	41	•		45	Valley with 45° arc	SV450612XXXXYY
	•			30	Hill with 30° arc	SH300812XXXXYY
	•			45	Hill with 45° arc	SH450812XXXXYY
		•		30	Valley with 30° arc	SV300812XXXXYY
		•		45	Valley with 45° arc	SV450812XXXXYY
			•	30	Hill/Valley with 30° arc	SW300812XXXXYY
8' x 12'			•	45	Hill/Valley with 45° arc	SW450812XXXXYY
	•			30	Hill with 30° arc	SH301012XXXXYY
	•			45	Hill with 45° arc	SH451012XXXXYY
		•		30	Valley with 30° arc	SV301012XXXXYY
10' x 12'		•		45	Valley with 45° arc	SV451012XXXXYY
	•			30	Hill with 30° arc	SH301212XXXXYY
	•			45	Hill with 45° arc	SH451212XXXXYY
	*	•		30	Valley with 30° arc	SV301212XXXXYY
		•		45	Valley with 45° arc	SV451212XXXXYY
			•	30	Hill/Valley with 30° arc	SW301212XXXXYY
12' x 12'			•	45	Hill/Valley with 45° arc	SW451212XXXXYY

XXXX = Perforation Pattern, see page 9 to select your pattern

YY = Color, see page 10 to select your color

# Non-Kit Options - Step 2: Select your Wave configuration

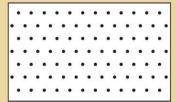
### Additional Wave size/ configuration options\* **Dimension C Chord Height Dimension B** Radius **Dimension A Chord Length** \*The following chart is for non-kit options only. Available **Cloud Size Cloud Size** as Hill Dim. C Arc Dim. A Dim. B Part # Arc Dim. A Dim. B Dim. C Part # or Valley **Chord Length** Radius Height **Chord Length** Radius Height 7.5° 9' 11-15/16" 76' 4-3/4" 2-3/4" 10075 H/V 22.5° 5' 11-9/16" 15' 3-3/8" 3-9/16" 6225 H/V 15° 9' 11-13/16" 38' 2-3/8 3-15/16" 1015 H/V 30° 5' 10-5/8" 11' 5-1/2" 4-9/16" 630 H/V 9' 11-1/4" 25' 5-9/16" 5-7/8" 10225 H/V 5' 10-3/4" 9' 2" 5-13/16" 6375 H/V 22.5° 37.5° 7-1/16" 30° 9' 10-5/8" 19' 1-3/16" 7-3/16 1030 H/V 45° 5' 10-1/8" 7' 7-11/16" 645 H/V 9' 9-7/8" 15' 3-5/16" 9-3/4" 10375 H/V 5' 9-1/2" 6' 6-9/16" 8-1/8" 6525 H/V 45° 9' 7-11/16" 12' 8-13/16" 11-3/8" 1045 H/V 60° 5' 8-13/16" 5' 8-3/4" 9-5/16" 660 H/V 52.5° 9' 7-7/8" 10'10-15/16" 1' 1-1/2" 10525 H/V 75° 5' 7" 4' 7" 11-3/8" 675 H/V 60° 9' 6-9/16" 9' 6-9/16" 5' 4-1/2" 3' 9-13/16" 1' 1-1/16" 690 H/V 1' 3-5/8" 1060 H/V 90° 75° 9' 3-5/8" 7' 7-11/16" 1' 7-7/16" 1075 H/V 7.5° 3' 11-15/16" 30' 6-5/8" 13/16" 4075 H/V 3' 11-7/8" 15' 3-3/8" 1-9/16" 415 H/V 15° 90° 9' 0" 6' 4-3/8" 1' 10-11/16" 1090 H/V 22.5° 3' 11-11/16" 10' 2-1/4" 2-5/16" 4225 H/V 61' 1-3/8" 7.5° 7' 11-15/16" 1-9/16" 8075 H/V 3' 11-3/8" 7' 7-11/16" 3-1/8" 430 H/V 15° 7' 11-3/4" 30' 6-11/16" 3-1/8" 815 H/V 3' 11-1/8" 4375 H/V 37.5° 6' 1-3/8" 3-7/8" 22.5° 7' 11-3/8" 20' 2-7/8" 4-3/4" 8225 H/V 3' 10-3/4" 5' 1-1/8" 4-5/8" 445 H/V 30° 7' 10-7/8" 15' 3-3/8" 6-1/4" 830 H/V 52.5° 3' 10-5/16" 4' 4-3/8" 5-3/8" 4525 H/V 37.5° 7' 10-5/16" 12' 2-11/16" 7-3/4" 8375 H/V 3' 9-7/8" 6-1/16" 460 H/V 3' 9-13/16" 45° 7' 9-3/8" 10' 2-1/4" 9-7/16" 845 H/V 7-1/2" 75° 3' 8-1/2" 3' 5/8" 475 H/V 8' 8-3/4" 8525 H/V 52.5° 7' 8-11/16" 10-13/16" 3' 7-1/4" 2' 6-9/16" 8-13/16" 490 H/V 60° 7' 7-15/16" 7' 7-11/16" 1' 7/16" 860 H/V 7' 7-11/16" 7' 7-5/8" 12-1/4" 875 H/V 90° 7' 2-7/16" 5' 1-1/8" 1' 6-1/8" 890 H/V 5' 11-15/16" 45' 5-1/16" 1-3/16" 6075 H/V 5' 11-13/16" 22' 11" 2-3/8" 615 H/V

# Step 3: Select your infill panel perforation

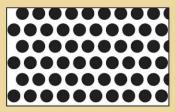
# Metal infill panels



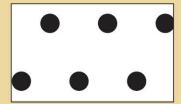
Perforated Panel (R042) Perforations: 3/64" Dia. @ 1/8" O.C. Open area: 11% Nominal 3/4" border



Perforated Panel (R062) Perforations: 1/16" Dia. @ 1/4" O.C. Open area: 6% Nominal 3/4" border



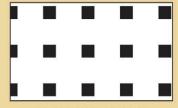
\*Perforated Panel (R250) Perforations: 1/4" Dia. @ 0.32" O.C. Open area: 58% Nominal 3/4" border



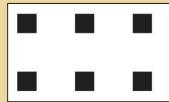
Perforated Panel (R375) Perforations: 3/8" Dia. @ 1-1/8" O.C. Open area: 9% Nominal 3/4" border



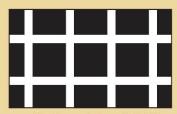
Perforated Panel (R188) Perforations: 3/16" Dia. @ 1" O.C. Open area: 4% Nominal 3/4" border



Perforated Panel (S250) Perforations: 1/4" x 1/4" @ 3/4" O.C. Open area: 11% Nominal 3/4" border



Perforated Panel (S375) Perforations: 3/8" x 3/8" @ 1-1/8" O.C. Open area: 11% Nominal 3/4" border



Perforated Panel (S500) Perforations: x 1/2" @ 5/8" O.C. Open area: 64% Nominal 3/4" border



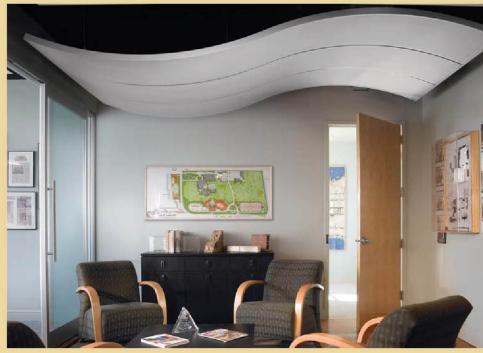
Unperforated Panel (UPA)

\* Laminated acoustical fleece is not available on Perforated Panel R250 and S500 due to open cell percentage.



# Step 4: Select your color

Serpentina® offers 13 color choices, so you can pick the best color for your space. If you don't see a color that's right for you, don't worry. Custom colors are available.



12' x 6' combination Hill/Valley Wave with 2' x 12' R042 Perforated Panels in Silver Satin

### **Color selection**

Due to printing limitations, shade may vary from actual product.

### **Metal Infills**



# Serpentina® Family Overview

### Serpentina Classic

This amazing 3-dimensional curved cloud offers maximum design flexibility.

The pre-engineered system allows you to create hills and valleys. Metal infill panels come in 2' x 2', 2' x 4' and 2' x 6', perforated and unperforated.

### Serpentina Semi-Concealed

Make a more dramatic statement with

Serpentina Semi-Concealed. These

2' x 4' and 2' x 6' curved clouds offer

sculptural design flexibility all with the

clean, sophisticated look of semi-concealed

infill panels.

### Serpentina Vault

Durable 2' x 6' factory-finished aluminum panels come in several finishes, unperforated and perforated, with acoustical fleece backing available for enhanced acoustics.

Create arcs of 15, 30 and 45 degrees.

For additional information visit the web at armstrong.com/serpentina or see our Serpentina family brochure CS-3960.



[ Between us, ideas become reality ]®

### **CEILING SYSTEMS**

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- Name of your Armstrong Representative
- TechLine<sup>™</sup> Technical information, detail drawings, CAD design assistance, installation information, other technical services – 8 a.m. to 5:30 p.m. EST, Monday through Friday FAX 1-800-572-8324 or email: techline@armstrong.com

### armstrong.com/waves

- Information on Serpentina® Curved Clouds
- Submittal pages
- Specification writing tool
- InVision™ design tool
- Latest product and program news
- Real time selection and specification information
- · Contacts reps, where to buy, who will install
- Literature and samples information



