

CEILING SYSTEMS

[Between us, ideas become reality.]®

FORMATIONS™
Accent & Acoustical Clouds

Armstrong®

Get on cloud nine with Formations™

Now you can have an innovative space-defining look with Formations Accent and Acoustical Clouds. And they're packaged in an easy-to-install kit with factory mitered corners and our new StrongBack™ cable mounting system. These amazing clouds appear to float overhead.

Choose from Accent Clouds using Infusions® translucent panels and Filaments™ fabric panels, or sound-absorbing Acoustical Clouds using Ultima®, Optima®, Filaments Lido and MetalWorks™ perforated panels.

14' x 14', 8' x 10' and 6' x 10' Formations Clouds with 2' x 2' Optima and MetalWorks Vector panels and 4" and 6" Formations Axiom Vector Perimeter Trim

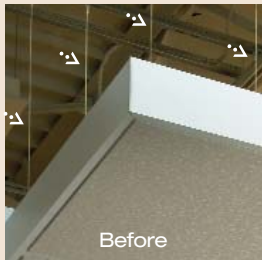
Front cover: 6' x 10' Formations Clouds with 2' x 2' Optima Vector acoustical panels and Formations Axiom Knife Edge for Vector Perimeter Trim





FORMATIONS™ Accent & Acoustical Clouds

Recessed aircraft cables give a dramatic floating appearance



Accent and Acoustical design options



Accent Panels



Acoustical Panels

Spot acoustics for open plenums



Greater sound absorption than a continuous ceiling of same area. Coordinating sound masking speakers available.

Formations Axiom® Profile options



Vector panel with Formations Axiom Vector Perimeter Trim



Tegular panel with inverted Formations Axiom Vector Perimeter Trim



Tegular panel with Formations Axiom Knife Edge for Vector Perimeter Trim



Vector panel with Formations Knife Edge for Vector Perimeter Trim

Complete Formations Axiom Installation and Perimeter Trim kit includes all needed components



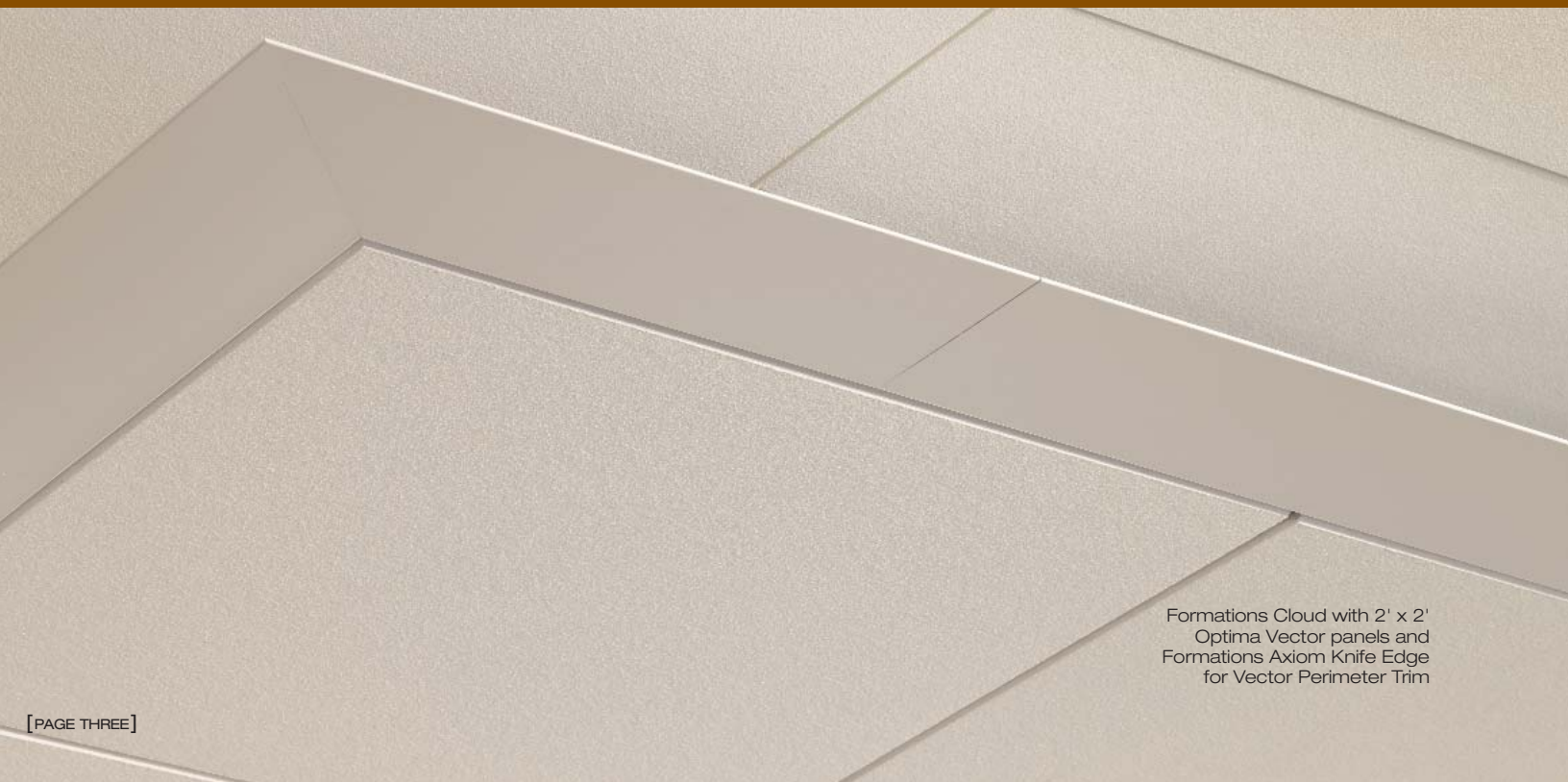
StrongBack™ carrying channel with aircraft cable



Formations Cloud with 2' x 2'
Infusions Chalk Folio panels

Accent or Acoustical Clouds

Formations Accent Clouds define a space while providing a fresh new, innovative look.
Formations Acoustical Clouds take your ceiling design one step further by providing superior sound absorption.

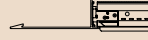
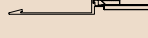
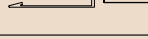
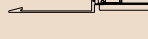
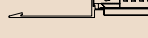


Formations Cloud with 2' x 2'
Optima Vector panels and
Formations Axiom Knife Edge
for Vector Perimeter Trim

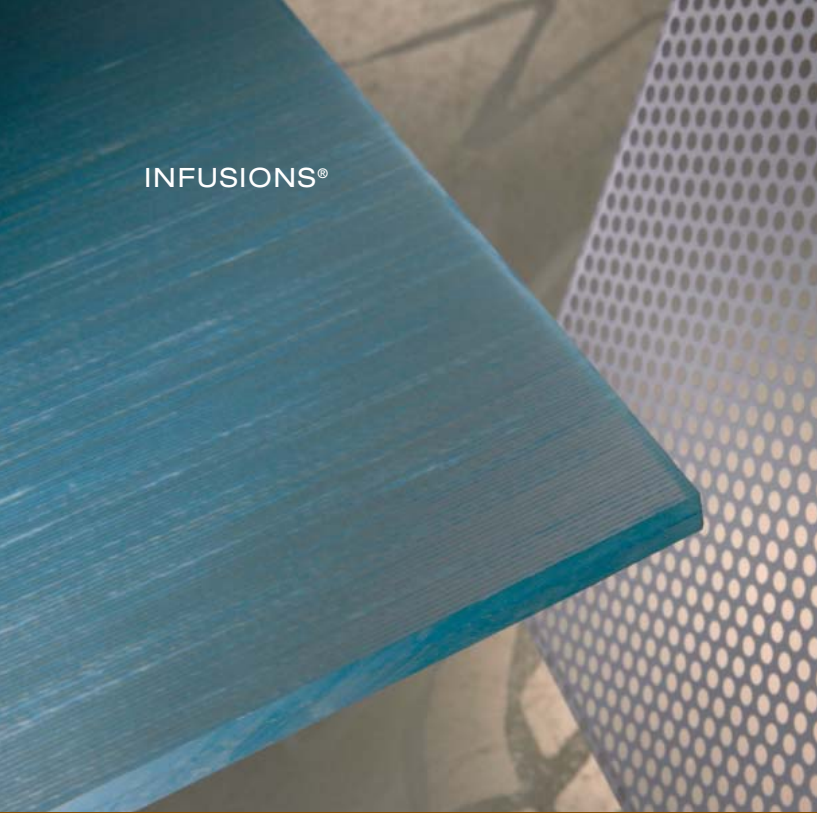
Formations™ Clouds are easy to specify and install

Formations Axiom feature	Specifier benefit	Contractor benefit
StrongBack Suspension System	Recessed hanging wires give floating look	Fewer wires, less labor
Aircraft Cable	Sleek, clean visual	Fast, easy connection to structure
Factory Cut Grid	Clean, precise cuts	No on-site cuts – less measuring, cutting
Factory Cut Axiom Trim	Clean, precise joinery	No on-site cuts – less measuring, cutting
Factory-Mitered Corners	Assured squareness and fit	No on-site cuts – less measuring, cutting
Assembly drawings	Assured fit and finish	Fast, sure on-site assembly
Extruded aluminum	Precise, clean connections	Handleability, registration and precision
Coordination of all components	Color coordinated infill panels, grid and trim	• Assured color coordination • Standard lead times
Seismic tested	Specify with confidence	Install with confidence
Formations Suspension Kit	• Easy to specify and detail • Assured fit and finish	• One item number; one complete kit • Easy to order

Compatible ceiling panels

2' x 2' Panel	Item Number	Panel Edge Detail	Formations Axiom Vector	Formations Axiom Vector (Inverted)	Formations Axiom Knife Edge for Vector	Formations Axiom Knife Edge Vector
Infusions	See Page 6	Lay-in				
Filaments	See Page 6	Sq. Tegular				
Optima Open Plan	3900, 3901	Vector		N/A	N/A	
Optima Open Plan	3250, 3354, 3253	Sq. Tegular				
Ultima	1920	Vector		N/A	N/A	
Ultima	1911	Beveled Tegular				
MetalWorks Microperforated	9420U6A2*	Vector		N/A	N/A	
MetalWorks Microperforated	9685U6A2*	5/16" Sq. Tegular				
MetalWorks Microperforated	9682U6A2*	5/8" Sq. Tegular				
MetalWorks Extra Microperforated	2118U6A2*	Vector		N/A	N/A	
MetalWorks Extra Microperforated	4704U6A2*	5/16" Sq. Tegular				

*While specifying or ordering MetalWorks panels, please add appropriate color suffix (i.e. WH, SG, MY) to the item number shown above.



INFUSIONS®



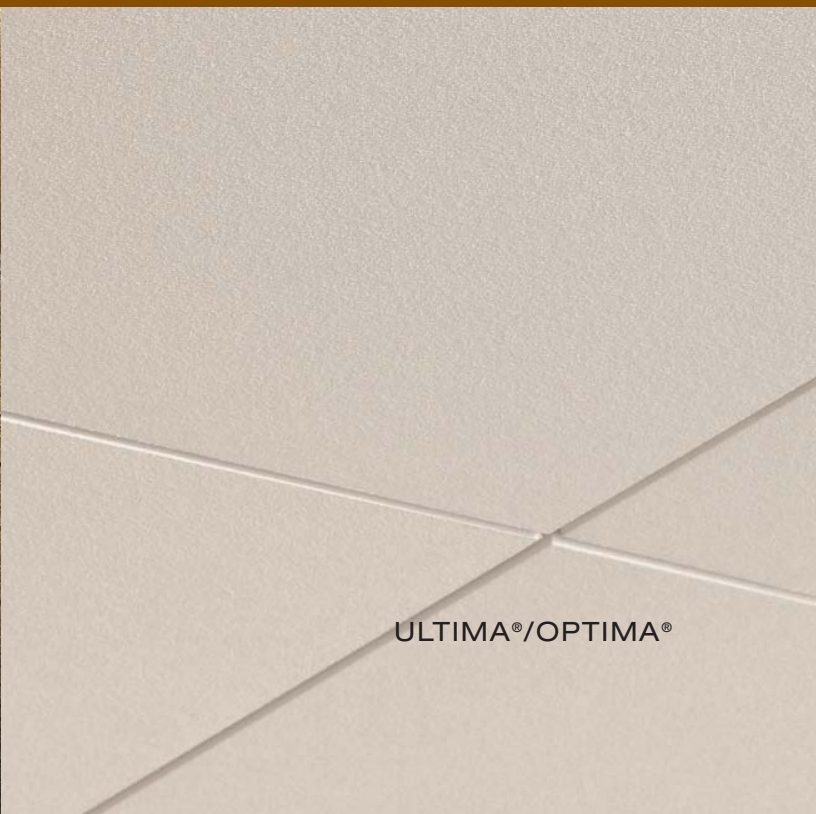
METALWORKS™

Design options

The wide selection of panel options, along with the number of compatible grid colors, will allow you to meet just about any design need, from the bold, contemporary look of Infusions and MetalWorks to the soft, sophisticated look of Filaments, to the upscale practicality of Ultima and Optima panels. With Formations, the sky's the limit.



FILAMENTS™



ULTIMA®/OPTIMA®

Accent Clouds

■ INFUSIONS® 2' x 2' lay-in panels



Clear Arbor 5922TCA Crystalline Focus 5922TCR Peace Blue 5922TPB Blue Linen 5922TBL Natural Linen 5922TNL Silver Orbit 5922TSR White Circlets 5922TWC Chalk Folio 5922TCF

Compatible Grid Colors

Note: Axiom 2", 4" and 6" profile heights available in colors and White.



White Cream (CR) Silver Grey (SG) Natural Aluminum (NA)

Acoustical and Accent Clouds

■ FILAMENTS™ 2' x 2' Tegular fabric panels

good
acoustics

Nitro



Tonic 4755 Spritzer 4756 Gingerale 4757 Crystal 4759 Cream Soda 4758

good
acoustics

Anchorage



Slate 4749 Angora 4751 Goose 4752 Birch 4754 Wolf 4750 Vanilla 4753

good
acoustics

Network



Horizon 4760 Frost 4761 Powder 4762 Sunbeam 4764 Putty 4763

excellent
acoustics

Lido



Cape May 4746 Oak Bluffs 4747 Hermosa 4745 Huntington 4748

superior
acoustics

■ ULTIMA®/OPTIMA® Tegular and Vector

Beveled Square



White White

superior
acoustics

■ METALWORKS™ Square Tegular and Vector



Micro-Perforated Extra Micro-Perforated

Compatible Grid Colors

Note: Axiom 2", 4" and 6" profile heights available in colors and White.

Mix and match with panels using compatible or contrasting colors.

Visit www.armstrong.com/filaments for options.



White Cream (CR) Haze (HA) Vanilla (VA)



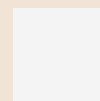
Camel (CM) Oyster (YS) Platinum (PL) Adobe (AD)



Silver Grey (SG) Gun Metal Grey (MY) Slate (ST) Wolf (WK)

Compatible Grid Colors

Note: Axiom 2", 4" and 6" profile heights available in colors and White.



White

Compatible Grid Colors

Note: Axiom 2", 4" and 6" profile heights available in colors only.



White Silver Grey (SG) Gun Metal Grey (MY) Black (BL)

Formations™ Acoustical Clouds sound absorption in Sabin.

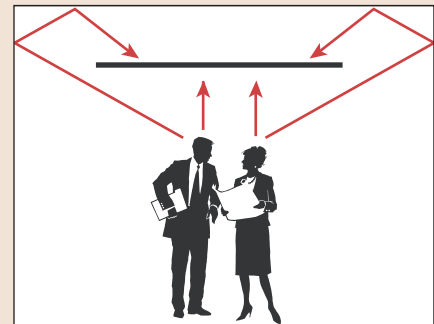
Sabin is a measure of sound absorption provided by a material when installed within an architectural space. The number of Sabin per unit is approximately equal to the total surface area of the unit in square feet that is exposed to sound, multiplied by the absorption coefficient of the material.

Formations Acoustical Clouds provide greater sound absorption than a continuous ceiling of the same surface area because the sound is absorbed from both the front and back surfaces of the cloud. The more “live” the space, the greater will be the effect on reverberation time from the addition of clouds.

Sabin per unit is preferred to characterize the absorption provided by an individual “space absorber,” such as a baffle, canopy or cloud.

Factors that may affect the installed acoustical performance relative to the published results are:

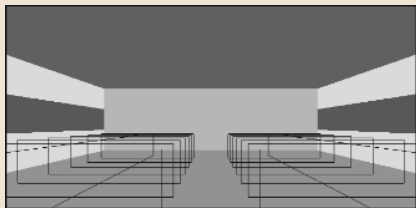
- Size of cloud
- Number of clouds and their layout (horizontal and vertical)
- Suspension distance below exposed deck or finished ceiling
- Location and horizontal layering of clouds
- Ceiling panel selection



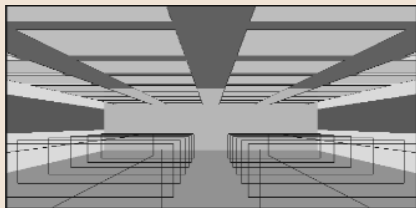
Enjoy the quiet

Formations Acoustical Clouds don't just look good, they provide outstanding sound absorption – even more than a continuous ceiling of the same surface area, because sound is absorbed from both the front and back surfaces of the cloud. Sounds too good to be true.

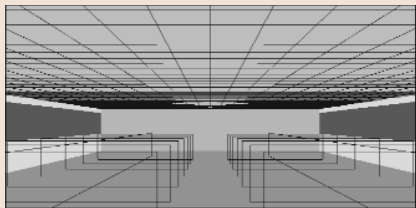
OPEN PLENUM



FORMATIONS



FULL ULTIMA CEILING



5,120 SF Open Plenum (51.2' x 100'), 15' to deck, drywall with windows two sides, commercial carpet.

Ceiling	No Ceiling (Open Plenum)	Forty 8' x 8' Formations Clouds (50% of ceiling)				Full Ultima Ceiling
		Filaments Lido	Ultima	Optima	MetalWorks	
Reverberation Time(s)	3.4s	1.1s	1.1s	0.9s	0.8s	0.5s
RT Improvement	ref	+67%	+67%	+73%	+78%	+85%
Background Noise Reduction	ref	-2.0 dB	-2.0 dB	-3.0 dB	-3.5 dB	-5.0 dB
Total Sabin for Coverage Area	none	2560 sf x 0.92 = 2355	2560 sf x 0.94 = 2406	2560 sf x 1.34 = 3430	2560 sf x 1.48 = 3788	5120 sf x 0.70 = 3584

Acoustics can be further enhanced with i-ceilings sound masking speakers. For additional information, contact TechLine. To hear the difference, contact your Armstrong representative for a demonstration.



8' x 8' Formations Cloud with Filaments™
Nitro Tonic fabric panels, Metaphors® Convex
coffers with Ultima Beveled Tegular 18" x 18" infill
panels and 4" Formations Axiom Perimeter Trim



6" x 14" Formations Cloud with
2' x 2' Infusions Chalk Folio panels and 2"
Formations Axiom Vector Perimeter Trim

Easy to specify

Formations accent and acoustical clouds are easy to specify and easy to install. Simply follow these five steps when specifying:

1. Select cloud size and choose accent or acoustical panels
2. Select ceiling panel type, design and color
3. Select desired panel edge detail
4. Select profile type and height (see Trim and Suspension Kit chart)
5. Select color coordinated grid and Axiom Perimeter Trim (Note: Axiom Knife Edge available in White only)

EXAMPLE 1

If you select:

- 6' x 8' acoustical cloud
- Optima Vector panels, Item 3900
- Axiom Knife Edge for Vector profile

Specify:

- Item 3900 Optima Vector ceiling panels
- Kit #CKEVA0608 – Perimeter Trim and Suspension System

EXAMPLE 2

If you select:

- 10' x 14' Accent Cloud
- Infusions panels, Chalk Folio, lay-in edge, Item 5922TCF
- 4" Axiom perimeter profile

Specify:

- Item 5922TCF Infusions ceiling panels
- Kit #C4VEA1014 Perimeter Trim and Suspension System

EXAMPLE 3

If you select:

- 6' x 14' accent cloud
- Filaments Nitro Spritzer, square regular edge, Item 4756
- 6" Axiom perimeter profile in Adobe (AD)

Specify:

- Item 4756 Filaments fabric panels
- Kit #C6VEA0614AD Perimeter Trim and Suspension System

Formations Axiom Perimeter Trim and Suspension Kit Options

Cloud Size	Axiom Profile	Item No.
6' x 6'	2" Vector	C2VEA0606
	4" Vector	C4VEA0606
	6" Vector	C6VEA0606
	Knife Edge Tegular*	CKETA0606
	Knife Edge Vector*	CKEVA0606
6' x 8'	2" Vector	C2VEA0608
	4" Vector	C4VEA0608
	6" Vector	C6VEA0608
	Knife Edge Tegular*	CKETA0608
	Knife Edge Vector*	CKEVA0608
6' x 10'	2" Vector	C2VEA0610
	4" Vector	C4VEA0610
	6" Vector	C6VEA0610
	Knife Edge Tegular*	CKETA0610
	Knife Edge Vector*	CKEVA0610
6' x 12'	2" Vector	C2VEA0612
	4" Vector	C4VEA0612
	6" Vector	C6VEA0612
	Knife Edge Tegular*	CKETA0612
	Knife Edge Vector*	CKEVA0612
6' x 14'	2" Vector	C2VEA0614
	4" Vector	C4VEA0614
	6" Vector	C6VEA0614
	Knife Edge Tegular*	CKETA0614
	Knife Edge Vector*	CKEVA0614
8' x 8'	2" Vector	C2VEA0808
	4" Vector	C4VEA0808
	6" Vector	C6VEA0808
	Knife Edge Tegular*	CKETA0808
	Knife Edge Vector*	CKEVA0808
8' x 10'	2" Vector	C2VEA0810
	4" Vector	C4VEA0810
	6" Vector	C6VEA0810
	Knife Edge Tegular*	CKETA0810
	Knife Edge Vector*	CKEVA0810

Cloud Size	Axiom Profile	Item No.
8' x 12'	2" Vector	C2VEA0812
	4" Vector	C4VEA0812
	6" Vector	C6VEA0812
	Knife Edge Tegular*	CKETA0812
	Knife Edge Vector*	CKEVA0812
8' x 14'	2" Vector	C2VEA0814
	4" Vector	C4VEA0814
	6" Vector	C6VEA0814
	Knife Edge Tegular*	CKETA0814
	Knife Edge Vector*	CKEVA0814
10' x 10'	2" Vector	C2VEA1010
	4" Vector	C4VEA1010
	6" Vector	C6VEA1010
	Knife Edge Tegular*	CKETA1010
	Knife Edge Vector*	CKEVA1010
10' x 12'	2" Vector	C2VEA1012
	4" Vector	C4VEA1012
	6" Vector	C6VEA1012
	Knife Edge Tegular*	CKETA1012
	Knife Edge Vector*	CKEVA1012
10' x 14'	2" Vector	C2VEA1014
	4" Vector	C4VEA1014
	6" Vector	C6VEA1014
	Knife Edge Tegular*	CKETA1014
	Knife Edge Vector*	CKEVA1014
12' x 12'	2" Vector	C2VEA1212
	4" Vector	C4VEA1212
	6" Vector	C6VEA1212
	Knife Edge Tegular*	CKETA1212
	Knife Edge Vector*	CKEVA1212
12' x 14'	2" Vector	C2VEA1214
	4" Vector	C4VEA1214
	6" Vector	C6VEA1214
	Knife Edge Tegular*	CKETA1214
	Knife Edge Vector*	CKEVA1214
14' x 14'	2" Vector	C2VEA1414
	4" Vector	C4VEA1414
	6" Vector	C6VEA1414
	Knife Edge Tegular*	CKETA1414
	Knife Edge Vector*	CKEVA1414

Standard Grid Colors

						
White*	Cream (CR)	Haze (HA)	Vanilla (VA)	Camel (CM)	Oyster (YS)	
						
Platinum (PL)	Adobe (AD)	Silver Grey (SG)	Gun Metal Grey* (MY)	Slate (ST)	Wolf (WK)	Tech Black (BL)

*Formations Axiom Knife Edge available in White only.

Add color suffix at the end of the grid item numbers if ordering color other than White.

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

For color coordination recommendations, please visit armstrong.com/formations

FORMATIONS™

Accent & Acoustical Clouds

Physical Data – Panels**Material**

Mineral Fiber, Fiberglass, Light-transmitting Polycarbonate and Metal.

Surface Finish

Smooth for all but Filaments, which is woven fabric.

Acoustics

Panels made from mineral fiber, fiberglass and perforated metal offer specific Sabin contributions in providing Sound Absorption (See chart on page seven).

Formations Acoustical Clouds provide greater sound absorption than a continuous ceiling of the same surface area because sound is absorbed from front and back surfaces. The more "live" the space, the greater the effect on reverberation time from the addition of clouds.

Recycled Content

Mineral Fiber 60-80%, Fiberglass 40% and Metal 25%.

Weight; Pieces/Carton

Please visit our web site or call TechLine.™

Suspension System/Perimeter Treatment

Formations Axiom is an integrated Suspension and Perimeter Trim System, designed exclusively for Formations Accents and Acoustical Clouds. There is a choice of a 2", 4" or 6" profile height or Knife Edge perimeter treatment.

Warranty

Formations Accent and Acoustical Clouds have a 10-Year Limited Warranty when installed according to Armstrong installation recommendations. Visit our web site or call TechLine for a copy of the warranty.

Fire Performance

Formations, 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 their local codes for guidance on the proper installation techniques where fire detection or suppression systems are present.

Design Considerations

There are several panel design options, from Infusions to MetalWorks, to Filaments fabric to Ultima and Optima panels. Choose from three Axiom trim profiles.

Formations Acoustical Clouds should only be installed on a horizontal plane. They are not approved for exterior use.

Installation Considerations

Installation is easy with our Axiom Formations Perimeter Trim and Suspension Kit which features our StrongBack cable mounting system. That's why Formations Clouds appear to float.

Always install Formations Accents and Acoustical Clouds in accordance with applicable building codes and regulations.

Seismic Restraint

Building codes may require lateral restraint in certain locations. Such lateral restraints are not included. Please consult your local building code for specific requirements.

U.S. Patent pending: StrongBack carrying channel.

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