



INFUSIONS® and METALWORKS™ Wings
Accent and Acoustical Clouds

Inspiring Great Spaces™

Armstrong®
CEILING & WALL SYSTEMS

INFUSIONS® and METALWORKS™ WINGS

Accent & Acoustical Clouds



MetalWorks™ Wings ceiling suspension microperforated in Silver Grey

KEY SELECTION ATTRIBUTES

- Define and accentuate spaces with unique 3-D visual
- Panels are adjustable to special heights and angles off of center spine
- Available in six translucent colors that coordinate with Infusions, SoundScapes®, and Colorations™ ceilings
- Lightweight aluminum panels (full or half-wing designs)
 - Perforation option available for better acoustics
 - Durable – easy to clean and maintain
 - Custom RAL colors available for panels and center spine

TYPICAL APPLICATIONS

- Exposed structure areas
- Lobbies and reception areas
- Office
- Corridors
- Hospitality and retail

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

METALWORKS & SPINES

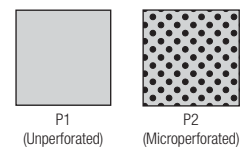
Custom RAL colors available

INFUSIONS



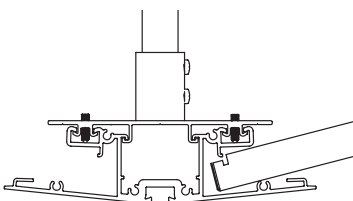
PERFORATION OPTIONS

(1:2 scale shown) Available on MetalWorks panels only

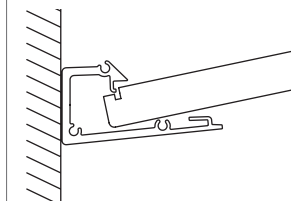


SYSTEM ASSEMBLY

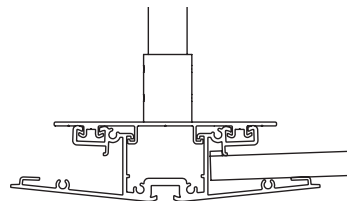
Installation for Suspended MetalWorks Panels



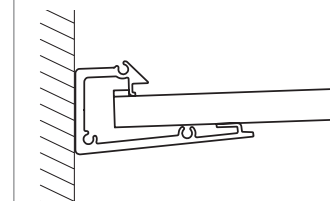
Installation for Wall Mounted MetalWorks Panels



Installation for Suspended Infusions Panels



Installation for Wall Mounted Infusions Panels

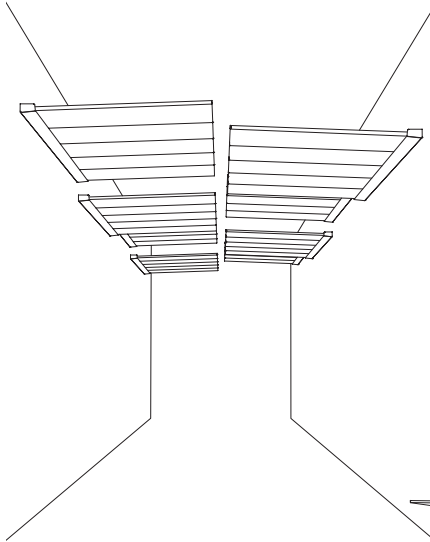


On the cover: Infusions Wings ceiling suspension in Refined Tangerine with Silver Grey spine (rendering)

RAL is a registered trademark of RAL gGmbH

DESIGN IDEAS

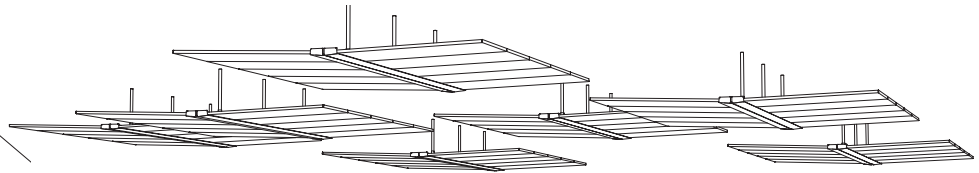
For additional design ideas, visit armstrong.com/wings



Half Wings Mounted on Walls



MetalWorks™ Wings wall mount microperforated in Custom RAL colors



Full Wings Suspended from Ceiling

ACOUSTICAL PERFORMANCE

Sound Absorption in Sabin

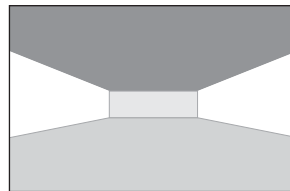
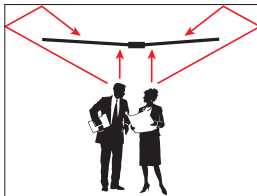
The Sabin is the unit of total sound absorption provided by an object. This is the preferred metric for "space absorbers" such as clouds, canopies, or baffles installed within an architectural space.

Total acoustical absorption for a suspended ceiling is calculated by multiplying the exposed surface area by the material NRC while "space absorbers" are directly measured. MetalWorks Wings 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.

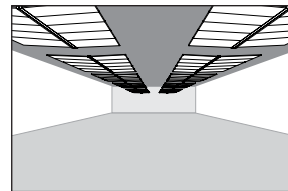
The installation of clouds and canopies in a reverberant space can significantly reduce the background noise and reverberation time, enhancing speech intelligibility.

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

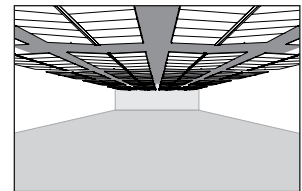
- Size and shape of cloud
- Number of clouds and their layout
- Suspension distance below exposed deck or finished ceiling



Exposed Structure



25% MetalWorks Wings



50% MetalWorks Wings

5,000 SF Exposed Structure (50' x 100'), 15' to deck, drywall with windows two sides, commercial carpet

Ceiling	None / Exposed Structure	16 MetalWorks Wings Microperforated* (25% of ceiling)	32 MetalWorks Wings Microperforated* (50% of ceiling)	Full Optima® Open Plan Ceiling @ 10' H
Reverberation Time(s)	3.4s	1.5s	1.0s	0.4s
RT Reduction (%)	n/a	56%	71%	85%
SPL Reduction (dB)	n/a	2.6dB	4.2dB	5.6dB
Absorption metric	n/a	81 Sabin / assembly (1.05 Sabins/ft ²)	81 Sabin / assembly (1.05 Sabins/ft ²)	NRC 0.90

* Acoustical values above determined with use of acoustical fleece and optional fiberglass infill. Fiberglass infill (item 8200100) will need to be cut and resealed to fit panels. Fiberglass acoustical blankets by others may also be used. You can calculate the acoustical difference that MetalWorks Wings make in your space by using our online Reverb Calculator Tool at armstrong.com/reverbtool.

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UP TO **54%** RECYCLED CONTENT

Calculate LEED contribution at armstrong.com/greengenie

LOCATION DEPENDENT

KIT COMPONENTS

- Panel Kit – MetalWorks or Infusions Wings panels
- Suspension Kit or Wall Mount Kit (includes spine, end caps, and hardware)

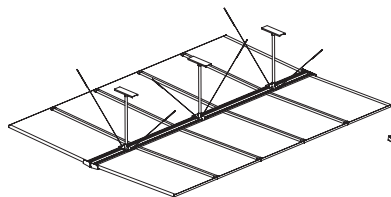
STEP 1: SELECT YOUR PANEL, COLOR, AND TRIM (TRIM FOR INFUSIONS PANELS ONLY)

Item Number*	Description	Dimensions (Inches)	Light Reflect	Wash	Scrub	Soil	Pcs/Ctn
METALWORKS™ Wings			(White Only)	Durability			
5927P1__	Unperforated Panel (for full wing suspension kit)	24 x 45"	0.77	•	•	•	10
5927P2__	Microperforated Panel with Acoustical Fleece (for full wing suspension kit)	24 x 45"	0.61	•	•	•	10
5917P1__	Unperforated Panel (for half wing wall mount kit)	24 x 45"	0.77	•	•	•	5
5917P2__	Microperforated Panel with Acoustical Fleece (for half wing wall mount kit)	24 x 45"	0.61	•	•	•	5
INFUSIONS® Wings							
6610___	Translucent Panel (for full wing suspension kit)	24 x 48"	N/A	•	•	•	10
6611___	Translucent Panel (for half wing wall mount kit)	24 x 48"	N/A	•	•	•	5
5846**	Infusions Wings Translucent Edge Trim – Full Wing (precut to size)	120"	N/A	•	•	•	6
5847**	Infusions Wings Translucent Edge Trim – Half Wing (precut to size)	48"	N/A	•	•	•	3

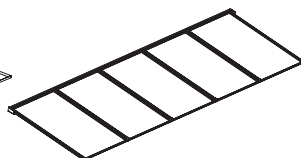
* When specifying or ordering, include the appropriate color suffix (two or three letters) with the item number (e.g. 5927P1 W H).
 ** Order one carton of trim per Wing.

STEP 2: SELECT YOUR SUSPENSION OR WALL MOUNT KIT COLOR

Item Number*	Description	Dimensions (Inches)
5944__	Suspension Kit	8 x 120 x 2"
5908__	Wall Mount Kit	4 x 120 x 2"



Suspension Kit – assembled view (from above)



Wall Mount Kit – assembled view (from above)

ACCESSORIES

Item Number	Description	Dimensions (Inches)	Color	Pcs/Ctn
8200100	Fiberglass Infill panel for MetalWorks panels	24 x 24 x 1"	Black (Gloss)	12

NOTE: Fiberglass infill will need to be cut and resealed to fit panels. Fiberglass acoustical blankets by others may also be used.

COLORS AND PERFORATIONS

METALWORKS	INFUSIONS	
White (WH)	Refined Kiwi (TRK)	Refined Tangerine (TRT)
Silver Grey (SG)	Refined Reef (TRR)	Refined Black (TRB)
Gun Metal Grey (MY)	Refined Lagoon (TRL)	Refined Clear (TCL)
Unperforated (P1)	Refined Plum (TRP)	
Microperforated (P2)		

PHYSICAL DATA

Material
 Aluminum (MetalWorks panels and suspension spine)
 Polycarbonate (Infusions panels)

Panel Size and Angles
 Nominal 24" x 45" for panels; nominal 96" x 120" for total installed suspension kit; nominal 48" x 120" for total installed wall mount kit. Angles: 5° options included in kit.

Surface Finish
 MetalWorks – Factory-applied powder-coated finish (post-coated).

Fire Performance
 MetalWorks – ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index of 25 or less and Smoke Developed Index 50 or less.

Wings panels, 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
 Fire Class – Class A
 Unperforated – Type XX, Pattern G
 Perforated – Type XX, Pattern C

Acoustical Performance
 MetalWorks – 1.05 Sabin/SF.

Design Considerations
 Splay wires included with kit installed on finished product should be considered for symmetry and span dependent on Wings install height when installing lighting options.

Installation Consideration
 Wings assembly requires two people to handle and install safely. Install Wings clouds a minimum of 18" apart. Infusions panel seams must be positioned in the same direction on both sides of the spine. Panels are butted together and seams are visible from below. Infusions® Wings panels have a batch code printed on them. Panels should be installed with the code facing up so it is not visible from below.

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 System
 Hardware system and cables included in panel kits.

Warranty
 Details at armstrong.com/warranty

Weight
 Suspension kit – 67 lbs. for hardware; 1 to 6 pcs./ctn. 40 lbs. per carton (MetalWorks) – 10 pcs. 42 lbs. per carton (Infusions) – 10 pcs.
 Wall mount kit: 14 lbs. for hardware; 20 lbs. per carton (MetalWorks) – 5 pcs. 22 lbs. per carton (Infusions) – 5 pcs.