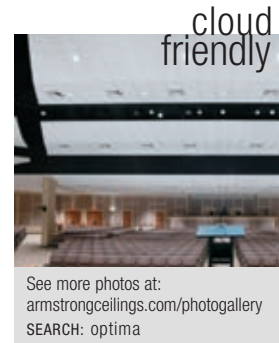


OPTIMA®
 Square Lay-in
 fine texture



Smooth-textured Optima panels provide excellent acoustical absorption and more standard-size options than any other texture in the line.

KEY SELECTION ATTRIBUTES

- Outstanding acoustical performance for open plan areas, both Articulation Class (180-200) and NRC (0.90-1.00)
- Optima® PB panels are part of the Sustain™ portfolio and meet the most stringent sustainability compliance standards today
- Smooth, clean, durable finish – Washable, Impact-resistant, Scratch-resistant, Soil-resistant
- Energy-saving high light-reflective finish
- Non-directional visual reduces scrap and installation time
- Items with PB suffix are manufactured with a plant-based binder
- Sag-resistant large-size panels
- Compatible with TechZone™ Ceiling Systems (Pgs. 251-257)
- Item 3352 available with Create!™ printed images and patterns, see pages 175-177
- 30-Year Limited System Warranty against visible sag, mold, and mildew

TYPICAL APPLICATIONS

- Open plan offices
- Computer rooms
- Corridors (walls-to-deck)
- Auditoriums
- Waiting rooms/nurses' stations – assists in addressing HIPAA and FGI acoustical requirements
- Areas with indirect lighting systems

COLOR



DETAILS



1. Optima® Square Lay-in
2. Optima® Square Lay-in with Prelude 15/16" suspension system

OPTIMA®

Square Lay-in
fine texture



Declare™
Living Building
Challenge Compliant
PB Suffix Only

SUSTAIN™
High Performance
Sustainable
Ceiling Systems
PB Suffix Only

UP TO 71% RECYCLED CONTENT

Calculate LEED contribution at armstrongceilings.com/greengenie

LEED energy management, construction waste mgmt, regional materials, design for flexibility, EPD, recyclable/extended producer resp., bio-based materials, recycled content, sourcing of raw materials, material ingredient reporting, low emitting materials, lighting quality, acoustics

LOCATION DEPENDENT, PB ONLY, PB ONLY, PB ONLY

VISUAL SELECTION

Edge Profile	Susp. Dwg. Pgs. 295-299	Item No.	Dimensions (Inches)
		1462	4 x 48 x 1"
		1463	4 x 60 x 1"
		1400	6 x 48 x 1"
		1404	6 x 60 x 1"
		3156	20 x 60 x 1"
		3150 3150PB	24 x 24 x 3/4"
		3152 3152PB	24 x 24 x 1"
		3352	24 x 24 x 1"
		3159	24 x 24 x 1-1/2"

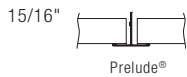
PERFORMANCE SELECTION

Dots represent high level of performance.

UL Classified Acoustics		Total Acoustics ¹	Articulation Class	Fire Rating	Light Reflect	Anti-Mold & Mildew	Sag Resist	Certified Low VOC Emissions	Wash	Impact	Scratch	Soil	Recycled Content	Recycle Program	30-Yr Warranty
NRC	+ CAC	=				Inherent	Humi-Guard+								
N/A	N/A	-	N/A	Class A	0.90	•	•	-	•	•	•	•	•	•	•
N/A	N/A	-	N/A	Class A	0.90	•	•	-	•	•	•	•	•	•	•
N/A	N/A	-	N/A	Class A	0.90	•	•	-	•	•	•	•	•	•	•
N/A	N/A	-	N/A	Class A	0.90	•	•	-	•	•	•	•	•	•	•
0.95	N/A	-	190	Class A	0.90	•	•	-	•	•	•	•	•	•	•
0.90	N/A	-	180	Class A	0.90	•	•	-	•	•	•	•	•	•	•
0.95	N/A	-	190	Class A	0.90	•	•	-	•	•	•	•	•	•	•
0.90	26	-	200	Class A	0.90	•	•	-	•	•	•	•	•	•	•
1.00	N/A	-	200	Class A	0.90	•	•	-	•	•	•	•	•	•	•

¹ Total Acoustics™ ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product. Optima items with the PB suffix are included in the Sustain portfolio and carry Declare certification.

SUSPENSION SYSTEMS



Blizzard White – Suspension System Finish

A color and texture coordinated suspension system to complement Optima ceiling panels for a monolithic look and feel.

PHYSICAL DATA

Material
3115, 3150-3153, 3155, 3156, 3158, 3159 – Fiberglass with DuraBrite® acoustically transparent membrane
3352, 3353, 3356, 3314, 3315 – Fiberglass with DuraBrite acoustically transparent membrane; CAC backing

Surface Finish
DuraBrite with factory-applied latex paint

Fire Performance
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less. (UL labeled.)

ASTM E1264 Classification
Type XII, Form 2, Pattern E
Fire Class A

Humidity/Sag Resistance
HumiGuard® Plus ceiling panels maintain superior sag resistance. Recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

Anti-Mold/Mildew
Fiberglass panels inherently inhibit the growth of mold and mildew.

VOC Emissions (PB suffix items only)
Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

Primary (Embodied) Energy
See all LCA information on our EPD's.

High Recycled Content
Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

Acoustical Details
Some items have CAC backing. CAC backing may be available as a special order. A CAC value of 37 can be achieved by backloading fiberglass products with item 769 or 770.

Insulation Value
1400, 1404, 1462, 1463, 3152, 3156, 3352, –
R Factor – 4.0 (BTU units)
R Factor – 0.70 (Watts units)
3150 – R Factor – 3.0 (BTU units)
R Factor – 0.53 (Watts units)
3159 – R Factor – 6.0 (BTU units)
R Factor – 1.05 (Watts units)

Application Consideration
Do not mix Optima panels and Optima® Health Zone™ panels in the same room.

30-Year Performance Guarantee & Warranty
When installed with Armstrong® Suspension System. Details at armstrongceilings.com/warranty

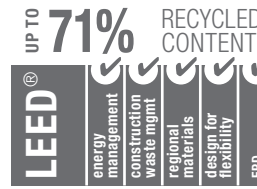
Weight; Square Feet/Carton
1400 – 0.13 lbs/SF; 24 SF/ctn
1404 – 0.16 lbs/SF; 30 SF/ctn
1462 – 0.44 lbs/SF; 16 SF/ctn
1463 – 0.44 lbs/SF; 20 SF/ctn
3150 – 0.44 lbs/SF; 128 SF/ctn
3152 – 0.45 lbs/SF; 96 SF/ctn
3159 – 0.61 lbs/SF; 64 SF/ctn
3156 – 0.47 lbs/SF; 100 SF/ctn
3352 – 0.46 lbs/SF; 96 SF/ctn

Minimum Order Quantity
1 carton, excludes other size panels

Metric Items Available
3150M, 3152M, 3156M, 3159M – Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details.

OPTIMA®

Square Lay-in fine texture



Calculate LEED contribution at armstrongceilings.com/greengenie

VISUAL SELECTION

Edge Profile	Susp. Dwg. Pgs. 295-299 armstrongceilings.com/catdwgs	Item No.	Dimensions (Inches)
		3151 3151PB	24 x 48 x 3/4"
		3153 3153PB	24 x 48 x 1"
		3353	24 x 48 x 1"
		3155	24 x 48 x 1-1/2"
		3356	24 x 48 x 1-1/2"
		3164	24 x 60 x 3/4"
		3161	24 x 72 x 3/4"
		3162	24 x 96 x 3/4"
		3158	30 x 30 x 1"
		3157	30 x 60 x 1"
		3160 3160PB	48 x 48 x 1"
		3154	48 x 96 x 1"

PERFORMANCE SELECTION

Dots represent high level of performance.

UL Classified Acoustics		Total Acoustics ¹		Articulation Class	Fire Rating	Light Reflect	Anti-Mold & Mildew	Sag Resist	Certified Low VOC Emissions	Wash	Impact	Scratch	Soil	Recycled Content	Recycle Program	30-Yr Warranty
NRC	CAC	=	AC	Class	Light Reflect	Inherent	Humi-Guard+			Durability						
0.90	N/A	-	180	Class A	0.90	•	•	-	•	•	•	•	•	•	•	•
0.95	N/A	-	190	Class A	0.90	•	•	-	•	•	•	•	•	•	•	•
0.90	26	-	200	Class A	0.90	•	•	-	•	•	•	•	•	•	-	•
1.00	N/A	-	200	Class A	0.90	•	•	-	•	•	•	•	•	•	•	•
0.95	26	-	200	Class A	0.90	•	•	-	•	•	•	•	•	•	-	•
0.90	N/A	-	180	Class A	0.90	•	•	-	•	•	•	•	•	•	•	•
0.90	N/A	-	180	Class A	0.90	•	•	-	•	•	•	•	•	•	•	•
0.95	N/A	-	190	Class A	0.90	•	•	-	•	•	•	•	•	•	•	•
0.95	N/A	-	190	Class A	0.90	•	•	-	•	•	•	•	•	•	•	•
0.95	N/A	-	190	Class A	0.90	•	•	-	•	•	•	•	•	•	•	•
0.95	N/A	-	190	Class A	0.90	•	•	-	•	•	•	•	•	•	•	•

¹ Total Acoustics™ ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product. Optima items with the PB suffix are included in the Sustain portfolio and carry Declare certification.



FIBERGLASS

OPTIMA®

Square Lay-in fine texture



DeclareSM
Living Building
Challenge Complaint
PB Suffix Only



SUSTAINSM
High Performance
Sustainable
Ceiling Systems
PB Suffix Only

UP TO **71%** RECYCLED CONTENT

LEED energy management construction waste mgmt regional materials design for flexibility EPD

Calculate LEED contribution at armstrongceilings.com/greengenie

recyclable/extended producer resp. bio-based materials recycled content sourcing of raw materials material ingredient reporting low emitting materials lighting quality acoustics

LOCATION DEPENDENT PB ONLY PB ONLY PB ONLY

VISUAL SELECTION

Edge Profile	Susp. Dwg. Pgs. 295-299 armstrongceilings.com/catdwgs	Item No.	Dimensions (Inches)
		FastSize™ Panels	W: 4" – 48" / L: 4" – 120" 1" Thick
		Other Size Panels	W: 4" – 24" / L: 4" – 96" 3/4" Thick
		Other Size Panels	W: 4" – 42" / L: 4" – 120" W: 4" – 48" / L: 4" – 114" 1-1/2" Thick

PERFORMANCE SELECTION

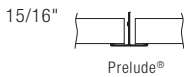
Dots represent high level of performance.

UL Classified Acoustics		Total Acoustics ¹	Articulation Class	Fire Rating	Light Reflect	Anti-Mold & Mildew	Sag Resist	Certified Low VOC Emissions	Wash	Impact	Scratch	Soil	Recycled Content	Recycle Program	30-Yr Warranty
NRC	CAC	=				Inherent	Humi-Guard+			Durability					
N/A	N/A	–	N/A	Class A	0.90	•	•	–	•	•	•	•	•	•	•
N/A	N/A	–	N/A	Class A	0.90	•	•	–	•	•	•	•	•	•	•
N/A	N/A	–	N/A	Class A	0.90	•	•	–	•	•	•	•	•	•	•

¹ Total Acoustics™ ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product. Optima items with the PB suffix are included in the Sustain portfolio and carry Declare certification.

FS FastSize: Factory-finished, made-to-order sizes, shipped fast (1 carton min.)

SUSPENSION SYSTEMS



Blizzard White – Suspension System Finish

A color and texture coordinated suspension system to complement Optima ceiling panels for a monolithic look and feel.

PHYSICAL DATA

Material
3115, 3150-3153, 3155, 3156, 3158, 3159 – Fiberglass with DuraBrite® acoustically transparent membrane
3352, 3353, 3356, 3314, 3315 – Fiberglass with DuraBrite acoustically transparent membrane; CAC backing

Surface Finish
DuraBrite scrim with factory-applied latex paint

Fire Performance
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less. (UL labeled.)

ASTM E1264 Classification
Type XII, Form 2, Pattern E
Fire Class A

Humidity/Sag Resistance
HumiGuard® Plus ceiling panels maintain superior sag resistance. Recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

Anti-Mold/Mildew
Fiberglass panels inherently inhibit the growth of mold and mildew.

VOC Emissions (PB suffix items only)
Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

Primary (Embodied) Energy
See all LCA information on our EPD's.

High Recycled Content
Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

Acoustical Details
Some items have CAC backing. CAC backing may be available as a special order. A CAC value of 37 can be achieved by backloading fiberglass products with item 769 or 770.

Insulation Value
3153, 3158, 3353, 3154, 3160, 3157 – R Factor – 4.0 (BTU units)
R Factor – 0.70 (Watts units)
3151, 3161, 3162, 3164 – R Factor – 3.0 (BTU units)
R Factor – 0.53 (Watts units)
3155, 3356 – R Factor – 6.0 (BTU units)
R Factor – 1.05 (Watts units)

Application Consideration
Do not mix Optima panels and Optima® Health Zone™ panels in the same room.

30-Year Performance Guarantee & Warranty
When installed with Armstrong® Suspension System. Details at armstrongceilings.com/warranty

Weight; Square Feet/Carton
3151 – 0.44 lbs/SF; 128 SF/ctn
3153, 3160 – 0.45 lbs/SF; 96 SF/ctn
3155, 3356 – 0.61 lbs/SF; 64 SF/ctn
3158 – 0.47 lbs/SF; 75 SF/ctn
3353 – 0.46 lbs/SF; 96 SF/ctn
3154 – 0.45 lbs/SF; 128 SF/ctn
3157 – 0.56 lbs/SF; 100 SF/ctn
3161 – 0.43 lbs/SF; 96 SF/ctn
3164 – 0.43 lbs/SF; 100 SF/ctn
3162 – 0.42 lbs/SF; 128 SF/ctn

Minimum Order Quantity
1 carton, excludes other size panels

Metric Items Available
3151M, 3153M, 3154M, 3155M, 3158M, 3160M, 3353M, 3356M – Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details.