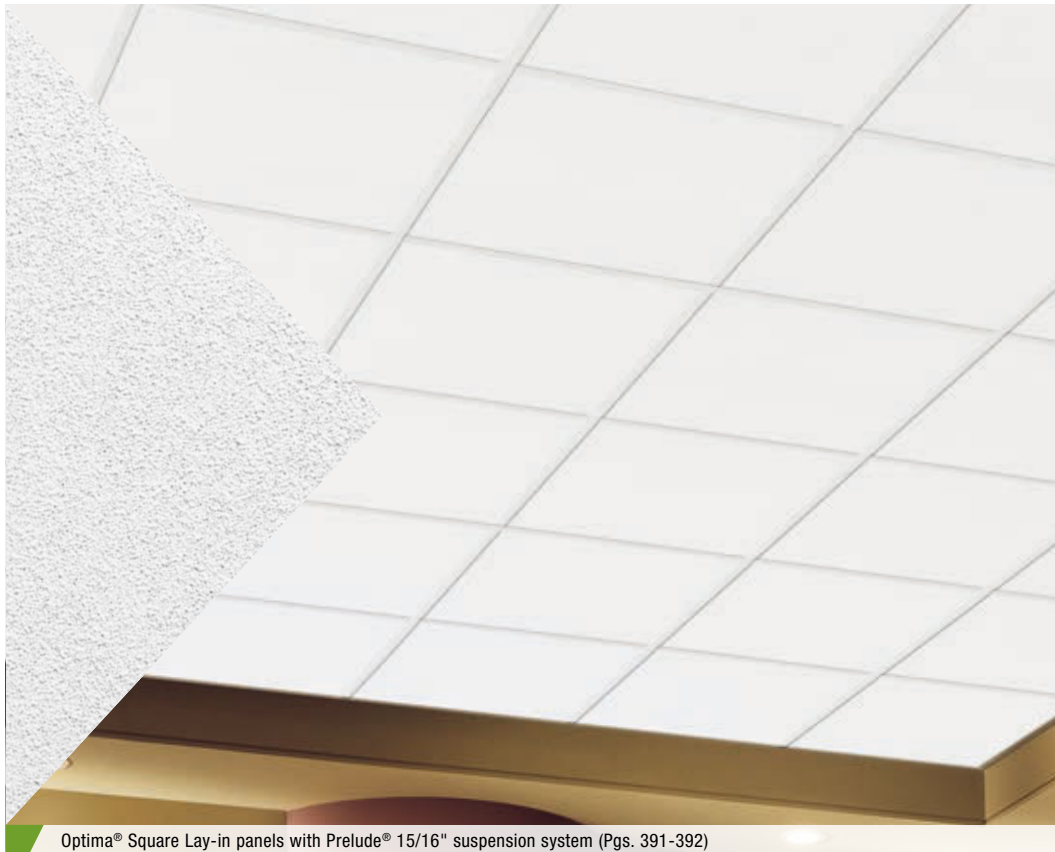


OPTIMA®
 Square Lay-in
 fine texture



3152, 3153



Optima® Square Lay-in panels with Prelude® 15/16" suspension system (Pgs. 391-392)

plus...
 capabilities
 to do more

armstrongceilings.com/capabilities
 See more photos at:
 armstrongceilings.com/photogallery

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)
- Items with PB suffix are manufactured with a plant-based binder
- 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
- Sag-resistant large-size panels
- Compatible with TechZone® Ceiling Systems (Pgs. 337-344)
- Item 3352 available with Create!™ printed images and patterns, see pages 245-247
- 30-Year Limited System Warranty against visible sag, mold, and mildew

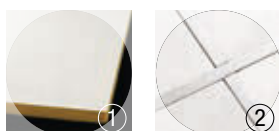
TYPICAL APPLICATIONS

- Open plan offices
- Computer rooms
- Corridors (walls-to-deck)
- Auditoriums
- Waiting rooms/nurses' stations
- 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



DeclareSM
Living Building
Challenge Compliant
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

VISUAL SELECTION

Edge Profile	Susp. Dwg. Pgs. 407-411	Item No.	Dimensions (Inches)	
15/16" Square Lay-in		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"	

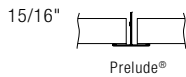
PERFORMANCE SELECTION

Dots represent high level of performance.

UL Classified Acoustics		Total Acoustics ¹	Articulation Class	Fire Performance	Light Reflect	Anti-Mold & Mildew	Sag Resist	Certified Low VOC Emissions	Wash	Impact	Scratch	Soil	Recycled Content	Recycle Program	30-Yr Warranty
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
3150, 3156, 3159, 1462, 1463, 1400, 1404, 3152 – Fiberglass with DuraBrite® acoustically transparent membrane 3352 – 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 are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

Mold/Mildew Protection
Ceiling panels with BioBlock® resist 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 EPDs.

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

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, 3150PB – 0.44 lbs/SF; 128 SF/ctn
3152, 3152PB – 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.



FIBERGLASS

OPTIMA®

Square Lay-in fine texture



DeclareSM
Living Building
Challenge Compliant
PB Suffix Only

SUSTAIN[™]
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
- recyclable/extended producer resp.
- biobased materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

LOCATION DEPENDENT PB ONLY PB ONLY PB ONLY

Calculate LEED contribution at armstrongceilings.com/greengenie

VISUAL SELECTION

Edge Profile	Susp. Dwg. Pgs. 407-411 armstrongceilings.com/catdwgs	Item No.	Dimensions (Inches)	
OPTIMA®				
15/16" Square Lay-in	1	3151 3151PB	24 x 48 x 3/4"	
	1	3153 3153PB	24 x 48 x 1"	
	1	3353	24 x 48 x 1"	
	1	3155	24 x 48 x 1-1/2"	
	1	3356	24 x 48 x 1-1/2"	
	1	3164	24 x 60 x 3/4"	
	1	3161	24 x 72 x 3/4"	
	1	3162	24 x 96 x 3/4"	
	1	3158	30 x 30 x 1"	
	1	3157	30 x 60 x 1"	
	1	3160 3160PB	48 x 48 x 1"	
	1	3154	48 x 96 x 1"	

PERFORMANCE SELECTION

Dots represent high level of performance.

UL Classified Acoustics		NRC	+ CAC =	Total Acoustics ¹	Articulation Class	Fire Performance	Light Reflect	Anti-Mold & Mildew	Sag Resist	Certified Low VOC Emissions	Wash	Impact	Scratch	Soil	Recycled Content	Recycle Program	30-Yr Warranty
NRC	AC																
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	•	•	-	•	•	•	•	•	•	•	•	•
0.90	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	•	•	-	•	•	•	•	•	•	•	•	•

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



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.	biobased 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. 407-411	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

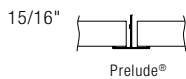
PERFORMANCE SELECTION

Dots represent high level of performance.

UL Classified Acoustics			Total Acoustics ¹	Articulation Class	Fire Performance	Light Reflect	Anti-Mold & Mildew	Sag Resist	Certified Low VOC Emissions	Wash	Impact	Scratch	Soil	Recycled Content	Recycle Program	30-Yr Warranty
NRC	+ CAC	=														
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.

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
3153, 3155, 3158 – Fiberglass with DuraBrite® acoustically transparent membrane 3353, 3356 – 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 are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

Mold/Mildew Protection
Ceiling panels with BioBlock® resist 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 EPDs.

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

Weight; Square Feet/Carton
3151, 3151PB – 0.44 lbs/SF; 128 SF/ctn
3153, 3153PB, 3160, 3160PB – 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.



FIBERGLASS