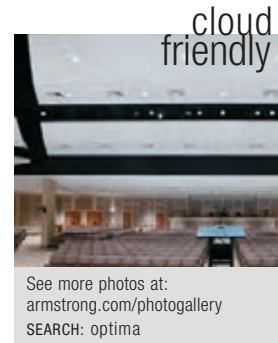


**OPTIMA®**  
Square Lay-in  
fine texture

Items with  
Breakthrough  
Plant-based  
Binder have a  
PB Suffix



3152, 3153



Optima® Square Lay-in with Prelude® 15/16" suspension system (Pgs. 279-280)

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)
- 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

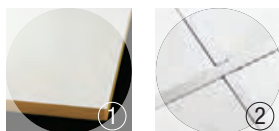
**TYPICAL APPLICATIONS**

- 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

Items with Breakthrough Plant-based Binder have a PB Suffix

UP TO 71% RECYCLED CONTENT

Calculate LEED contribution at [armstrong.com/greengenie](http://armstrong.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. 295-299 <a href="http://armstrong.com/catdws">armstrong.com/catdws</a>	Item No.	Dimensions (Inches)
		<b>1462</b>	4 x 48 x 1"
		<b>1463</b>	4 x 60 x 1"
		<b>1400</b>	6 x 48 x 1"
		<b>1404</b>	6 x 60 x 1"
		<b>3156</b>	20 x 60 x 1"
		<b>3150</b> <b>3150PB</b>	24 x 24 x 3/4"
		<b>3152</b> <b>3152PB</b>	24 x 24 x 1"
		<b>3352</b>	24 x 24 x 1"
		<b>3159</b>	24 x 24 x 1-1/2"

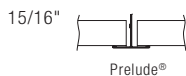
## PERFORMANCE SELECTION

Dots represent high level of performance.

UL Classified Acoustics		NRC	+ CAC	= Total Acoustics <sup>1</sup>	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
UL	Class																
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	•	•	•	•	•	•	•	•	•	•	•	•

<sup>1</sup> Total Acoustics™ ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.

## 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 [armstrong.com/warranty](http://armstrong.com/warranty)

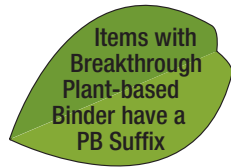
**Weight; Square Feet/Carton**  
1400 – 0.13 lbs/SF; 24 SF/ctn  
1404 – 0.16 lbs/SF; 30 SF/ctn  
1462 – 0.44 lbs/SF; 16 SF/ctn  
1463 – 0.44 lbs/SF; 20 SF/ctn  
3150 – 0.44 lbs/SF; 128 SF/ctn  
3152 – 0.45 lbs/SF; 96 SF/ctn  
3159 – 0.61 lbs/SF; 64 SF/ctn  
3156 – 0.47 lbs/SF; 100 SF/ctn  
3352 – 0.46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



UP TO **71%** RECYCLED CONTENT

Calculate LEED contribution at [armstrong.com/greengenie](http://armstrong.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. 295-299 <a href="http://armstrong.com/catdwgs">armstrong.com/catdwgs</a>	Item No.	Dimensions (Inches)
<b>OPTIMA®</b>			
		1 <b>3151</b> <b>3151PB</b>	24 x 48 x 3/4"
		1 <b>3153</b> <b>3153PB</b>	24 x 48 x 1"
		1 <b>3353</b>	24 x 48 x 1"
		1 <b>3155</b>	24 x 48 x 1-1/2"
		1 <b>3356</b>	24 x 48 x 1-1/2"
		1 <b>3164</b>	24 x 60 x 3/4"
		1 <b>3161</b>	24 x 72 x 3/4"
		1 <b>3162</b>	24 x 96 x 3/4"
		1 <b>3158</b>	30 x 30 x 1"
		1 <b>3157</b>	30 x 60 x 1"
		1 <b>3160</b> <b>3160PB</b>	48 x 48 x 1"
		1 <b>3154</b>	48 x 96 x 1"

### PERFORMANCE SELECTION

Dots represent high level of performance.

UL Classified Acoustics		Total Acoustics <sup>1</sup>	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			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	•	•	-	•	•	•	•	•	•	•

<sup>1</sup> Total Acoustics™ ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.



FIBERGLASS

# OPTIMA®

## Square Lay-in fine texture

UP TO **71%** RECYCLED CONTENT

Calculate LEED contribution at [armstrong.com/greengenie](http://armstrong.com/greengenie)

**LEED®**

- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- lowbased 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 <a href="http://armstrong.com/catdws">armstrong.com/ catdws</a>	Item No.	Dimensions (Inches)
		<b>FS FastSize™ Panels</b>	W: 4" – 48" / L: 4" – 120" 1" Thick
		<b>Other Size Panels</b>	W: 4" – 24" / L: 4" – 96" 3/4" Thick
		<b>Other Size Panels</b>	W: 4" – 42" / L: 4" – 120" W: 4" – 48" / L: 4" – 114" 1-1/2" Thick

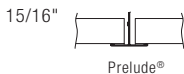
### PERFORMANCE SELECTION

Dots represent high level of performance.

UL Classified Acoustics		Total Acoustics¹	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. **FS FastSize**: Factory-finished, made-to-order sizes, shipped fast (1 carton min.)

### SUSPENSION SYSTEMS



### new 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 [armstrong.com/warranty](http://armstrong.com/warranty)

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