

NEW Clean Room™ FL & VL
Clean Room OPTIMA®, Clean Room ULTIMA®

Square Lay-in, Tegular
smooth texture



Items 1715, 1716, 1720, 1721



Clean Room Ultima with Clean Room 15/16" grid (Pg. 210)



Clean Room Optima with Prelude® 15/16" Exposed Tee grid (Pg. 215)



Clean Room FL with Clean Room 1-1/2" Exposed Tee grid (Pg. 210)

Key Selection Attributes

- Clean Rooms up to ISO Class 5 (Class 100)
- Meets USDA/FSIS guidelines for use in food processing areas (excludes items 869, 871)
- Durable – Washable, Scrubbable, Soil-resistant
- Non-directional visual reduces installation time and scrap
- 30-Year Limited System Warranty against visible sag, mold/mildew, and bacterial growth

Clean Room Optima and Ultima Additional Benefits

- Exceeds FGI Guidelines for acoustics and cleanability in general healthcare spaces
- Long-lasting water-repellency

Typical Applications

Clean Room FL, Clean Room VL, Clean Room Ultima

- Clean Rooms
- Kitchens/food preparation areas
- Laboratories
- Healthcare
 - Patient Rooms
 - Treatment Rooms
 - Semi-restricted surgical areas
 - Emergency rooms

Clean Room Optima Clean Rooms

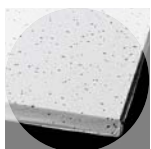
- Kitchens/food preparation areas
- Laboratories
- Healthcare
 - Patient rooms (walls-to-deck)
 - Treatment rooms (walls-to-deck)
 - Emergency rooms (walls-to-deck)
 - Semi-restricted surgical areas (walls-to-deck)
 - MRI rooms

VL (Perforated)

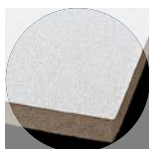
- Lavatories/restrooms

Detail (Other Suspension Systems compatible. Refer to listing on pages 151-152.)

Color



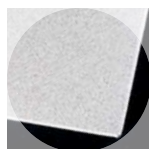
Clean Room FL



Clean Room VL



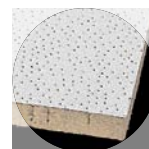
Clean Room Optima Square Lay-in



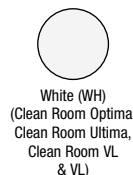
Clean Room Ultima Square Lay-in



Clean Room FL with Clean Room 1-1/2" Exposed Tee grid



VL



LEED® Credits

Energy	Waste Mgmt	Recycled Content	Local Materials	Renewable Materials	Daylight & Views
✓	✓	✓	✓		✓

Location Dependent

LEED for Schools

Acoustics	Low Emitting or CHPS
✓	✓

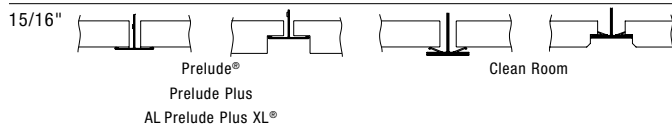


Visual Selection

Performance Selection Dots represent highest level of performance.

Edge Profile	Suspension Detail Dwg. Pgs. 226-228	Item No.	Dimensions	UL Classified		Acoustics NRC	CAC	Fire Rating	Light Reflect	Sag Resist	Anti-Microbial	Durable					Recycle Program			
				UL	Classified							Wash	Scrub	Water Repel	Impact	Scratch		Soil	Yes	
Clean Room OPTIMA (see Health Zone™ Optima, Items 3114, 3115, 3214, 3215, Pgs. 113-114)																				
15/16" Square Lay-in	2	3114	2' x 2' x 1"	□	0.95	N/A	190	Class A	0.86	HumiGuard+	Inherent	Wash	Scrub	Water Repel	Impact	Scratch	Soil	Yes		
		3115	2' x 4' x 1"	□	0.95	N/A	190	Class A	0.86											
		3314	2' x 2' x 1-1/2"	□	0.95	29	190	Class A	0.86											
		3315	2' x 4' x 1-1/2"	□	0.95	29	190	Class A	0.86											
15/16" Square Tegular	12, 2	3214	2' x 2' x 1"	□	0.95	N/A	190	Class A	0.86											
		3215	2' x 4' x 1"	□	0.95	N/A	190	Class A	0.86											
		3316	2' x 2' x 1-1/2"	□	0.95	29	190	Class A	0.86											
		3317	2' x 4' x 1-1/2"	□	0.95	29	190	Class A	0.86											
Clean Room ULTIMA (see Health Zone Ultima, Items 1935 and 1937, Pg. 173)																				
15/16" Square Lay-in	2	1935	2' x 2' x 3/4"	□	0.70	35	N/A	Class A	0.86	HumiGuard+	Inherent	Wash	Scrub	Water Repel	Impact	Scratch	Soil	Yes		
15/16" Beveled Tegular	12, 2A	1937	2' x 2' x 3/4"	□	0.70	35	N/A	Class A	0.86											

Suspension Systems



Physical Data

Material
3114, 3115, 3214, 3215 – Fiberglass with DuraBrite® acoustically transparent membrane
1935, 1937 – Wet formed mineral fiber with DuraBrite acoustically transparent water-repellent membrane

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
3114, 3115, 3214, 3215, 3314, 3315, 3316, 3317 – Type XII, Form 2, Pattern E
1935, 1937 – Type IV, Form 2, Pattern E
Fire Class A

Sag Resistance
HumiGuard® Plus – superior resistance to sagging in high humidity conditions up to, but not including, standing water and outdoor applications.

VOC/Formaldehyde Emissions
Meets CA Dept. of Health Services Standard Practice for the testing of VOC Emissions and is listed on CHPS High Performance Products Database for Low-Emitting Materials.

Anti Mold/Mildew & Bacteria
3114, 3115, 3214, 3215, 3314, 3315, 3316, 3317 – Fiberglass substrate is inherently resistant to the growth of mold, mildew, and bacteria.
1935, 1937 – BioBlock® Plus contains an anti-microbial treatment and provides guaranteed resistance against growth of mold/mildew and Gram-positive and Gram-negative odor/stain-causing bacteria for 30 years.

Acoustical Details
3314, 3315, 3316, and 3317 have CAC backing. Products with CAC backing are not UL Classified for acoustics. Contact TechLine for independent laboratory acoustic testing.

Insulation Value
3114, 3115, 3214, 3215, 3314, 3315, 3316, 3317 –
R Factor – 4.0 (BTU units)
R Factor – 0.70 (Watts units)
1935, 1937 –
R Factor – 2.2 (BTU units)
R Factor – 0.39 (Watts units)

30-Year Performance Guarantee & Warranty Information
See warranty details at armstrong.com/warranty

Application Considerations
Clean Room Optima (Health Zone Optima)
For Clean Room installations with Clean Room Optima, use full-size panels with Clean Room grid.
Clean Room Ultima (Health Zone Ultima)
For Clean Room installations with Clean Room Ultima, use full-size panels (items 1935 and 1937) with Clean Room grid. Clean Room Ultima has been tested to withstand 500 wash and scrub cycles.

Cleaning Recommendations
To clean panel, use a clean, white cloth with water or a mild detergent and wipe surface. To disinfect panel, lightly spray surface and wipe clean with a clean, white cloth. Acceptable colorless disinfectants include:
• Sodium hypochlorite
• Isopropyl alcohol
• Hydrogen peroxide
• Quaternary ammonium

Weight; Square Feet/Carton
3114, 3115, 3214, 3215 – 0.45 lbs/SF; 96 SF/ctn
1935, 1937 – 1.08 lbs/SF; 48 SF/ctn
3314, 3315, 3316, 3317 – 0.78 lbs/SF; 64 SF/ctn

Note: For assistance on proper Clean Room installation, contact TechLine at 1 877 ARMSTRONG. For Clean Room installations, use Clean Room Optima or Clean Room Ultima only with Armstrong Clean Room Grid Systems.

Recycled Content: **Up to 70%**

armstrong.com/greengenie

LEED® Credits

Energy Mgmt	Waste Recycled Content	Local Materials	Renewable Materials	Daylight & Views
	✓	✓	✓	

Location Dependent

LEED for Schools

Acoustics	Low Emitting or CHPS
	✓

**Clean Room™ FL/
Clean Room VL & VL**

Square Lay-in, Tegular

smooth texture

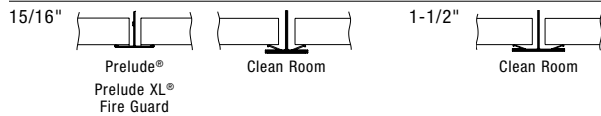


Visual Selection

Performance Selection Dots represent highest level of performance.

Edge Profile	Suspension Detail Dwg. Pgs. 226-228	Item No.	Dimensions	UL Classified		Fire Rating	Light Reflect	Sag Resist	Anti-Microbial	Durable				Recycle Program
				Acoustics NRC	CAC					Wash	Scrub	Water Repel	Soil	
Clean Room FL Field Unit – Class 5 (Class 100)														
	1,2	1715 1715M	2' x 2' x 3/4" 600 x 600 x 19mm	0.55	35	Class A	0.79	HumiGuard+	BioBlock+	Wash	Scrub	Water Repel	Soil	-
	1,2	1716 1716M	2' x 4' x 3/4" 600 x 1200 x 19mm	0.55	35	Class A	0.79							-
Clean Room FL Border Unit – Class 5 (Class 100)														
	1,2	1720 1720M	2' x 2' x 5/8" 600 x 600 x 15mm	N/A	35	Class A	0.79							-
	1,2	1721 1721M	2' x 4' x 5/8" 600 x 1200 x 15mm	N/A	35	Class A	0.79							-
Clean Room VL Unperforated – Class 5 (Class 100)														
	1	868 868M	2' x 2' x 5/8" 600 x 600 x 15mm	N/A	40	Fire Guard	0.80							-
	1	870 870M	2' x 4' x 5/8" 600 x 1200 x 15mm	N/A	40	Fire Guard	0.80							-
VL Perforated														
	1	869 869M	2' x 2' x 5/8" 600 x 600 x 15mm	0.55	35	Fire Guard	0.78							-
	1	871 871M	2' x 4' x 5/8" 600 x 1200 x 15mm	0.55	35	Fire Guard	0.78							-

Suspension Systems



Physical Data

Material
Wet-formed mineral fiber

Surface Finish
1715, 1716, 1720, 1721 – Soil-resistant polyester film
868, 870, 869, 871 – Vinyl-faced membrane

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) Fire Guard™: A fire resistive ceiling when used in applicable UL assemblies

ASTM E1264 Classification
1715, 1716, 1720, 1721 – Type IV, Form 2, Pattern G H
868, 870, – Type IV, Form 2, Pattern E
869, 871 – Type IV, Form 2, Pattern C E
Fire Class A

Sag Resistance
HumiGuard® Plus – superior resistance to sagging in high humidity conditions up to, but not including, standing water and outdoor applications.

VOC/Formaldehyde Emissions
Meets CA Dept. of Health Services Standard Practice for the testing of VOC Emissions and is listed on CHPS High Performance Products Database for Low-Emitting Materials.

Anti Mold/Mildew & Bacteria
BioBlock® Plus contains an anti-microbial treatment and provides guaranteed resistance against growth of mold/mildew and Gram-positive and Gram-negative odor/stain-causing bacteria for 30 years.

Insulation Value
R Factor – 1.5 (BTU units)
R Factor – 0.26 (Watts units)

30-Year Performance Guarantee & Warranty Information
See warranty details at armstrong.com/warranty

Application Considerations
Clean Room FL
If acoustical absorption is required, specify a combination of field and border units – field units for use as full-size panels only; border units for use where panels must be cut on the job (borders, sprinkler head penetrations, etc.).

VL Perforated
869, 871 – VL Perforated is not intended for Clean Room and kitchen/food preparation applications. Use unperforated product – 868, 870.

Clean Room VL
Clean Room VL has been tested to withstand 10,000 scrub cycles.
Clean Room VL is not appropriate for applications where germicidal lamps are being used.

Weight; Square Feet/Carton
1715 – 1.02 lbs/SF; 48 SF/ctn
1716 – 1.02 lbs/SF; 64 SF/ctn
1720 – 1.04 lbs/SF; 48 SF/ctn
1721 – 1.17 lbs/SF; 64 SF/ctn
868, 869 – 1.10 lbs/SF; 48 SF/ctn
870, 871 – 1.11 lbs/SF; 64 SF/ctn

Note: For assistance on proper Clean Room installation, contact TechLine at 1 877 ARMSTRONG. For Clean Room installations, use Clean Room FL or Clean Room VL only with Armstrong Clean Room Grid Systems.