

PERLA™

PERLA, PERLA OP, PERLA dB, PERLA OP dB

Brighter
Smoother
Stronger



BENEFITS

- A new smooth white surface with a range of four acoustical performance options to suit your space and needs
- Improved durability with a complete range of edge details
- Sustainable Contribution
 - Global GreenTag^{CERT™} GreenRate[™] Level A Certified for Green Star[™]
 - Cradle to Cradle Certified[™] Bronze for WELL Building Standard[™] *
- TOTAL ACOUSTICS[™] Performance (NRC+CAC)
 - High sound absorption for reduced reverberation and quieter spaces
 - High sound attenuation, improving room to room privacy
- Humiguard[™] Plus RH99 Sag Resistance
- ISO 5 Clean Room performance



BRONZE

* Refer to page 3



Inspiring Great Spaces®

Armstrong®
CEILING SOLUTIONS

One visual with a complete range of TOTAL ACOUSTICS™ performance options to fit every space and need

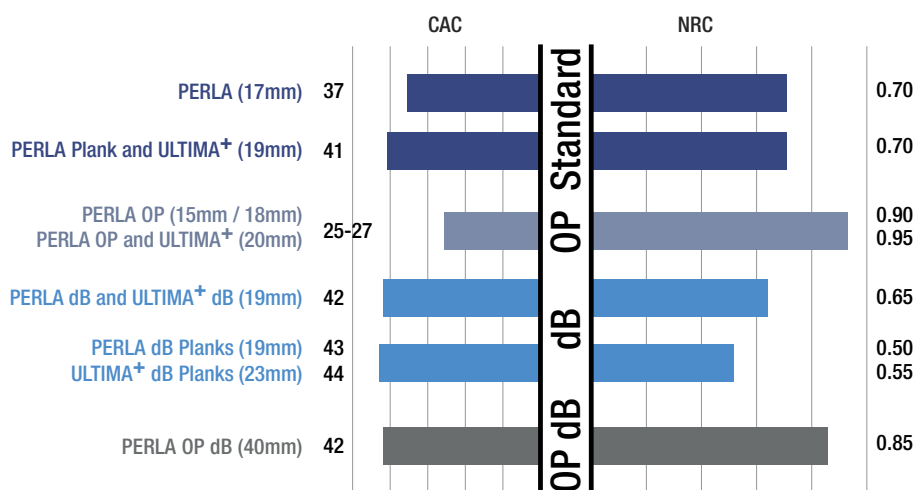


PERLA Standard, OP, dB and OP dB have the same outstanding performance but with different core densities that enable you to engineer sound reduction and attenuation to meet different requirements.



PERLA™ ceilings provide the perfect **total acoustical balance**. High sound absorption combined with excellent sound attenuation make the product ideal for working and learning environments.

PERLA™ OP dB adds the highest sound absorption and attenuation possible for a ceiling panel producing the **optimum flexible acoustic space**.



PERLA™ OP ceilings provide an excellent **sound absorption**. These products are ideal for open plan spaces where control of ambient noise is an important consideration.



PERLA™ dB ceilings provide an excellent level of **sound attenuation**. The product is ideal for spaces where privacy between rooms or where noise from above the suspended ceiling are important considerations.

Typical applications

	PERLA and PERLA OP dB	PERLA OP and PERLA OP dB	PERLA dB and PERLA OP dB
Office	Meeting rooms Conference rooms Corridors	Open plan offices Cafeterias	Individual offices
Education	Classrooms Corridors	Libraries Auditoriums	Individual offices
Healthcare	Administration Areas	Canteens Nurses stations	Consultation rooms Patient rooms
Transport	Waiting Areas	Lounges	
Retail & leisure	Department Stores Shops	Cinemas Theatres Restaurants	



BPM Vita Milano (IT), PERLA™ OP PLANKS

Contemporary visual

- ◆ Plain, smooth, low gloss surface, providing a monolithic visual with easy access to the plenum.
- ◆ Best in class edge details for improved durability, better fit and appearance:
- ◆ Reinforced, scratch resistant face with 'Vacuum Paint – Hard Edge' treatment

A bright Green solution

Reduce Environmental Impact

- ◆ PERLA™, PERLA OP and PERLA dB Ceilings are Cradle to Cradle Certified™ Bronze, satisfying Features 26.1: Enhanced Materials Safety and 97.1: Material Transparency, of the WELL Building Standard™ v1
- ◆ PERLA Ceilings are Global GreenTag™ GreenRate™ Level A Certified, providing a Sustainability Factor of 1.0 in Credit 21-D (Sustainable Products) in Green Star™ Rating Tools
- ◆ High recycled content (up to 64%)
- ◆ Contact your Armstrong Ceilings representative for details on how PERLA will contribute to **GREEN STAR™**, **WELL**, **LEED®** and **BREEAM®**



Waste Management

RECYCLABLE (100%)

End-of-Life Recycling Programme:

Reduce landfill – Old ceiling tiles are 100% recycled into the mix and can be processed into new ceiling tiles*.

** Conditions apply*

Enhance Indoor Environment

- ◆ Air quality:
Low VOC A +, ISO 5
- ◆ Visual comfort:
Light reflectance 86%
- ◆ Acoustical comfort:
NRC up to 0.90



PERLA™



RH99
Humidity
Resistant



Scratch
Resistant



Product
Handling
Durability



Washable



ISO 5 Clean
Room ISO
14644-1



Anti mould
and
mildew



Recycled Content
EN ISO 14021



Light Reflectance



Acoustical
Comfort

Panel Options	SQUARE LAY-IN	ANGLED TEGULAR	MICROLOOK™ 90		K2C2 EDGE
	 Prelude™ 24mm Grid	 Prelude 24mm Grid	 Suprafine™ 15mm Grid	 Silhouette™ 15mm Grid	 One Way / Modular Grid
600 x 600 x 17mm	2801M	2803M	2805M		—
1200 x 600 x 17mm	2802M	5182M	**		**
1200 x 400 x 17/19mm	**	**	**		**
1350 x 450 x 17/19mm	**	**	**		**
1500 x 500 x 17/19mm	**	**	**		**

— Not available

** Special items and other sizes available upon request

Contact your local Armstrong Ceilings representative for stock availability



EN ISO 354 &
EN ISO 11654

NRC	125	250	500	1000	2000	4000	Hz
0.70	0.35	0.40	0.60	0.85	0.95	1.00	α_p



EN ISO 10848-2 &
EN ISO 717-1

CAC
37dB (17mm Tiles and Planks)
41dB (19mm Planks)



Humiguard™ Plus Sag Resistance (RH99% at 0°C – 49°C)
Refer to website for additional information



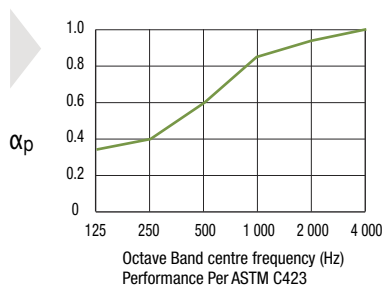
Conforms with BCA Spec. C1.10 and tested to AS/NZS 3837:1998
– Group 1, ISO 5660 – Group 1 –S



Thermal Insulation (R-Value)
0.33 m²K/W
0.37m² K/W (19mm Planks)



4.7 kg/m² (17mm)
5.2 kg/m² (19mm Planks)



Material

Wet-formed mineral fibre with durable acoustically transparent membrane

Surface Finish

Factory-applied latex paint with 'BioBlock™' mould/mildew inhibitor'. 'Vacuum Paint – Hard Edge' treatment for Tegular and K2C2 edge panels

Backloading Recommendation

Contact your local Armstrong Ceilings representative

Suspension Systems

PeakForm™ Steel options above, with ARMSTRONG BLUE TONGUE® Aluminium upon request

Green Star™: Potential contribution Interiors v1.1 / Design & As Built v1.2

Indoor Environmental Quality				Materials	
Credit 9 / 10 ACOUSTIC COMFORT	Credit 10.2A / 11.2A LIGHTING COMFORT SURFACE ILLUMINANCE	Credit 11.1B / 12.1B VISUAL COMFORT: DAYLIGHT	Credit 12 / 13 INDOOR POLLUTANTS	Credit 21D / 21D SUSTAINABLE PRODUCTS – "Level A" Third Party Certification	Credit 22 / 22 CONSTRUCTION AND DEMOLITION WASTE
✓	✓	✓	✓	✓	✓

Contact your Armstrong Ceilings representative for details on how PERLA will contribute to **GREEN STAR™**, **WELL**, **LEED®** and **BREEAM®**



PERLA Ceilings satisfy
Features 26.1: Enhanced
Materials Safety and 97.1:
Material Transparency, of
the WELL Building
Standard™ v1



PERLA™ OP



RH99
Humidity
Resistant



Scratch
Resistant



Product
Handling
Durability



Washable



ISO 5 Clean
Room ISO
14644-1



Anti mould
and
mildew



Recycled Content
EN ISO 14021*



Light Reflectance



Acoustical
Comfort

Panel Options	SQUARE LAY-IN	ANGLED TEGULAR	MICROLOOK™ 90		K2C2 EDGE
	 Prelude™ 24mm Grid	 Prelude 24mm Grid	 Suprafine™ 15mm Grid	 Silhouette™ 15mm Grid	 One Way / Modular Grid
600 x 600 x 15mm	3819M	5173M	5174M		—
1200 x 600 x 15mm	3821M	—	—		—
1200 x 600 x 18mm	**	5183M	**		**
1200 x 400 x 18mm	**	**	**		**
1350 x 450 x 18mm	**	**	**		**
1500 x 500 x 18mm	**	**	**		**

— Not available

* 15mm Tiles: 52%, 18mm Tiles: 23%, 18mm Planks: 20%

** Special items and other sizes available upon request

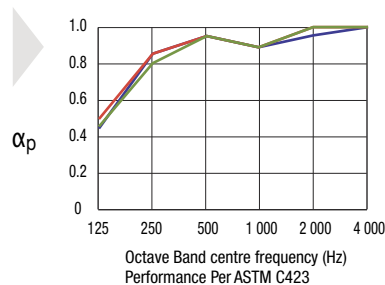
Contact your local Armstrong Ceilings representative for stock availability

NB: Perla OP is also available in 20mm thickness: NRC 0.95



EN ISO 354 &
EN ISO 11654

NRC	125	250	500	1000	2000	4000	Hz
• Tiles (15mm)							
0.90	0.45	0.80	0.95	0.90	1.00	1.00	α _p
• Tiles, Planks (18mm)							
0.90	0.50	0.85	0.95	0.90	1.00	1.00	α _p
• K2C2 Planks							
0.90	0.45	0.85	0.95	0.90	0.95	1.00	α _p



EN ISO 10848-2 &
EN ISO 717-1

CAC (Tested Dnfw values)							
25 dB (15mm tiles, 18mm tiles)							
27 dB (18mm Planks)							



Humiguard™ Plus Sag Resistance (RH99% at 0°C – 49°C)
Refer to website for additional information



Conforms with BCA Spec. C1.10 and tested to AS/NZS 3837:1998
– Group 1, ISO 5660 – Group 1 –S



Thermal Insulation (R-Value)
0.42 m²K/W (15mm)
0.50 m²K/W (18mm)



2.4 kg/m² (Tiles 15mm)
2.9 kg/m² (Tiles 18mm)
3.4 kg/m² (K2C2 Planks)

Material

Wet-formed mineral fibre with durable acoustically transparent membrane

Surface Finish

Factory-applied latex paint with 'BioBlock™' mould/mildew inhibitor. 'Vacuum Paint – Hard Edge' treatment for Tegular and K2C2 edge panels

Backloading Recommendation

Contact your local Armstrong Ceilings representative

Suspension Systems

PeakForm™ Steel options above, with ARMSTRONG BLUE TONGUE® Aluminium upon request

Green Star™: Potential contribution Interiors v1.1 / Design & As Built v1.2

Indoor Environmental Quality				Materials	
Credit 9 / 10 ACOUSTIC COMFORT	Credit 10.2A / 11.2A LIGHTING COMFORT SURFACE ILLUMINANCE	Credit 11.1B / 12.1B VISUAL COMFORT: DAYLIGHT	Credit 12 / 13 INDOOR POLLUTANTS	Credit 21D / 21D SUSTAINABLE PRODUCTS – "Level A" Third Party Certification	Credit 22 / 22 CONSTRUCTION AND DEMOLITION WASTE
✓	✓	✓	✓	✓	✓

Contact your Armstrong Ceilings representative for details on how PERLA will contribute to **GREEN STAR™**, **WELL**, **LEED®** and **BREEAM®**



PERLA OP Ceilings satisfy
Features 26.1: Enhanced
Materials Safety and 97.1:
Material Transparency, of
the WELL Building
Standard™ v1



PERLA™ dB



RH99
Humidity
Resistant



Scratch
Resistant



Product
Handling
Durability



Washable



ISO 5 Clean
Room ISO
14644-1



Anti mould
and
mildew



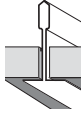
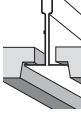
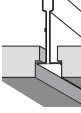
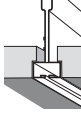
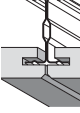
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EN ISO 14021



Light Reflectance



Acoustical
Comfort

Panel Options	SQUARE LAY-IN	ANGLED TEGULAR	MICROLOOK™ 90		K2C2 EDGE
	 Prelude™ 24mm Grid	 Prelude 24mm Grid	 Suprafine™ 15mm Grid	 Silhouette™ 15mm Grid	 One Way / Modular Grid
600 x 600 x 19mm	3191M	3192M	2095M		—
1200 x 600 x 19mm	**	**	**		**
1200 x 400 x 19mm	**	**	**		**
1350 x 450 x 19mm	**	**	**		**
1500 x 500 x 19mm	**	**	**		**

— Not available

** Special items and other sizes available upon request

Contact your local Armstrong Ceilings representative for stock availability



EN ISO 354 &
EN ISO 11654

NRC	125	250	500	1000	2000	4000	Hz
• Tiles							
0.65	0.30	0.40	0.55	0.70	0.85	0.95	α_p
• Planks							
0.50	0.30	0.35	0.40	0.60	0.70	0.80	α_p



EN ISO 10848-2 &
EN ISO 717-1

CAC
42 dB (Tiles)
43 dB (Planks: Tested Dnfw value)



Humiguard™ Plus Sag Resistance (RH99% at 0°C – 49°C)
Refer to website for additional information



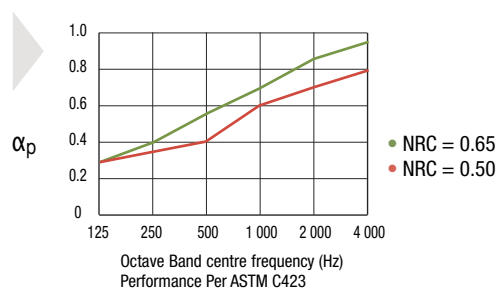
Conforms with BCA Spec. C1.10 and tested to AS/NZS 3837:1998
– Group 1, ISO 5660 – Group 1 –S



Thermal Insulation (R- Value)
0.28 m²K/W



7.6 kg/m²



Material

Wet-formed mineral fibre with durable acoustically transparent membrane

Surface Finish

Factory-applied latex paint with 'BioBlock™' mould/mildew inhibitor'. 'Vacuum Paint – Hard Edge' treatment for Tegular and K2C2 edge panels

Backloading Recommendation

Contact your local Armstrong Ceilings representative

Suspension Systems

PeakForm™ Steel options above, with ARMSTRONG BLUE TONGUE® Aluminium upon request

Green Star™: Potential contribution Interiors v1.1 / Design & As Built v1.2

Indoor Environmental Quality				Materials	
Credit 9 / 10 ACOUSTIC COMFORT	Credit 10.2A / 11.2A LIGHTING COMFORT SURFACE ILLUMINANCE	Credit 11.1B / 12.1B VISUAL COMFORT: DAYLIGHT	Credit 12 / 13 INDOOR POLLUTANTS	Credit 21D / 21D SUSTAINABLE PRODUCTS – "Level A" Third Party Certification	Credit 22 / 22 CONSTRUCTION AND DEMOLITION WASTE
✓	✓	✓	✓	✓	✓

Contact your Armstrong Ceilings representative for details on how PERLA will contribute to **GREEN STAR™**, **WELL**, **LEED®** and **BREEAM®**



PERLA dB Ceilings satisfy
Features 26.1: Enhanced
Materials Safety and 97.1:
Material Transparency, of
the WELL Building
Standard™ v1



PERLA™ OP dB



RH99
Humidity
Resistant



Scratch
Resistant



Product
Handling
Durability



Washable



ISO 5 Clean
Room ISO
14644-1



Anti mould
and
mildew



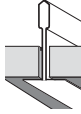
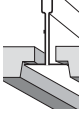
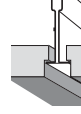
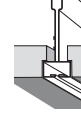
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EN ISO 14021



Light Reflectance



Acoustical
Comfort

Panel Options	SQUARE LAY-IN	ANGLED TEGULAR	MICROLOOK™ 90
	 Prelude™ 24mm Grid	 Prelude 24mm Grid	  Suprafine™ 15mm Grid Silhouette™ 15mm Grid
600 x 600 x 40mm	5044M	5104M	5114M
1200 x 600 x 40mm	5045M	5105M	

Contact your local Armstrong Ceilings representative for stock availability



EN ISO 354 &
EN ISO 11654

NRC	125	250	500	1000	2000	4000	Hz
0.85	0.35	0.60	0.90	1.00	1.00	1.00	α_p



EN ISO 10848-2 &
EN ISO 717-1

CAC
42 dB



Humiguard™ Plus Sag Resistance (RH99% at 0°C – 49°C)
Refer to website for additional information



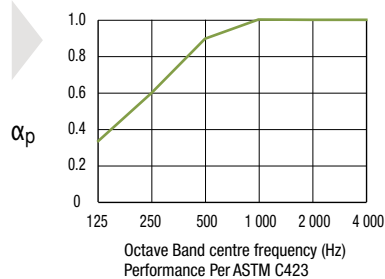
Conforms with BCA Spec. C1.10 and tested to AS/NZS 3837:1998
– Group 1, ISO 5660 – Group 1 –S



Thermal Insulation (R-Value)
1.08 m²K/W



6.2 kg/m²



Material

Wet-formed mineral fibre with durable acoustically transparent membrane

Surface Finish

Factory-applied latex paint with 'BioBlock™' mould/mildew inhibitor'. 'Vacuum Paint – Hard Edge' treatment for Tegular and K2C2 edge panels

Backloading Recommendation

Contact your local Armstrong Ceilings representative

Suspension Systems

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Green Star™: Potential contribution Interiors v1.1 / Design & As Built v1.2

Indoor Environmental Quality				Materials	
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✓	✓	✓	✓	✓	✓

Contact your Armstrong Ceilings representative for details on how PERLA will contribute to **GREEN STAR™**, **WELL**, **LEED®** and **BREEAM®**





Brighter
Smoother
Stronger

Armstrong World Industries Pty Ltd

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Armstrong®
CEILING SOLUTIONS