



SOUNDSCAPES®
OPTRA CAPZ

Inspiring Great Spaces®

Armstrong®
CEILING SOLUTIONS

SOLVING ACOUSTICAL CHALLENGES IN EXPOSED STRUCTURE SPACES HAS NEVER LOOKED SO GOOD!

The sleek OPTRA Capz system pairs Capz accent hardware with the exceptional acoustical benefits of fine-textured OPTRA ceiling panels. This unique combination gives you the opportunity to improve acoustics by about 50%* with only 20% coverage of the available ceiling area, resulting in a sound acoustical solution that gives you the look you want now without noise problems that can follow.

Outstanding Acoustics

- Noise is absorbed on both the front and back of the panels
- NRC 0.95 (equivalent)

High performance panels

- Exclusive smooth white finish:
 - High Light reflectant 0.90
 - Durable and washable
- Low VOC
- Factory-finished Square edges offer a crisp reveal
- 2 standard sizes:
 - Square panels 1200 x 1200mm
 - Rectangular panels 1200 x 2400mm
 - Specials available upon request.
- Panels are pre-drilled for easy installation
NOTE: We do not recommend painting panels as it negatively impacts acoustical performance.

Installation:

- Lightweight, accessible panels
- Easily demountable
- Installs using standard tools
- Grid system provides easy alignment and leveling for a quick and aesthetically pleasing installation
- Can be installed:
 - As close as 70-165mm from the deck using either the rigid attachment clip or adjustable hanger bracket.
 - Suspended at your desired ceiling elevation

* Reduce overall reverberation time in the space by 50% with only 20% coverage.





FLEXIBLE FOR MULTIPLE APPLICATIONS

OPTRA Capz works well in either retrofit or new spaces – it's a flexible fit and offers 2 standard panel sizes that can be installed:

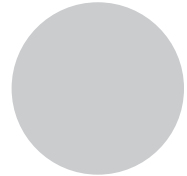
- directly to the deck
- direct to flush plasterboard
- suspended like a continuous ceiling

Panels can be designed in long runs or grouped based on the acoustical needs of the space.

Standard cap finish



White Textured



Silver Smooth

CAPZ OFFERS A FUN, ARCHITECTURAL DETAIL

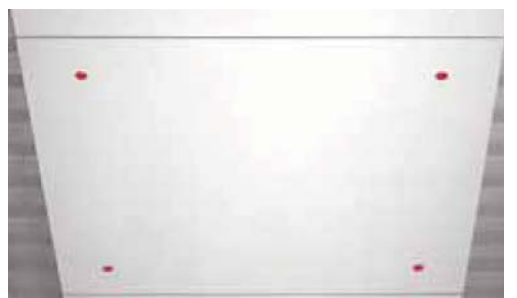
Capz hardware is available in a coordinating clean, crisp white that is textured like OPTRA panels or a more contrasting sleek and cool clear-coated silver. It's up to you. Or choose a custom RAL colour, for a more playful installation. (See website for colour information)



OPTRA Capz, installed 165mm from a metal deck.



OPTRA Capz, installed 70mm from a metal deck.



Custom RAL Caps

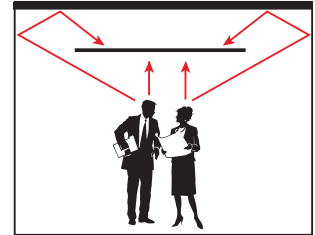
ACOUSTICAL PERFORMANCE

OPTRA Capz provides greater sound absorption than a continuous ceiling of the same surface area because the sound is absorbed from both the front and back surfaces.

The installation of OPTRA Capz in a reverberant space can significantly reduce the background noise and reverberation time, enhancing speech intelligibility.

Factors that may affect the installed acoustical performance relative to the published results are:

- Size of area
- Number of panels
- Layout of panels
- Suspension distance below exposed deck or finished ceiling

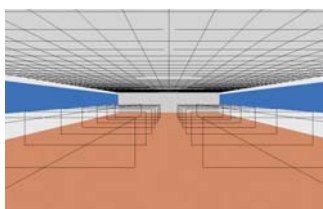


100% Suspended Ceilings Coverage vs. Partial Coverage with OPTRA Capz

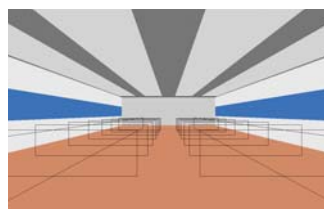
■ 450 square metres Exposed Structure open plan office (15 x 30m)

■ Ceiling height: 4.5m to deck

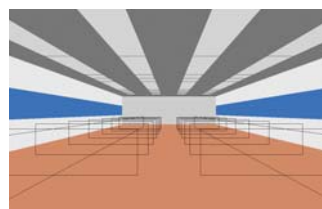
■ Flush plasterboard walls with windows on 2 sides, and commercial carpet



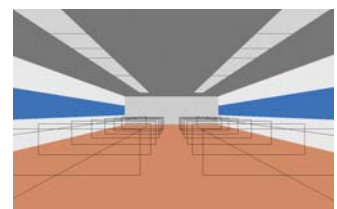
OPTRA Suspended Ceilings representing 100% coverage



OPTRA Capz with 50% coverage



OPTRA Capz with 25% coverage



OPTRA Capz with 10% coverage

Ceiling	None Exposed Structure	OPTRA Capz (10% of ceiling)	OPTRA Capz (25% of ceiling)	OPTRA Capz (50% of ceiling)	OPTRA Ceiling Continuous 3.5m H (100% of ceiling)
Reverberation time (s)	3.4s	2.1s	1.4s	0.9s	0.6s
RT reduction (%)	n/a	38%	59%	74%	82%
SPL reduction (dB)	n/a	1.4dB	2.8dB	4.5dB	5.7dB

SELECT YOUR PANEL SIZES AND LAYOUT

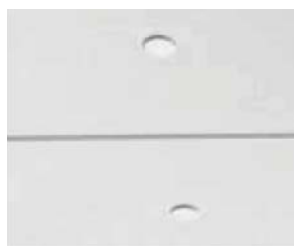
1. Review current space plan, noting all potential interruptions to panel layout; i.e., lighting, sprinklers, plumbing, HVAC, electrical conduits as well as joists or beams that are part of the structure. In new construction, depending upon the phase of the process in which you're specifying ceilings, you may be able to organize mechanical systems around your panel design to achieve design and acoustical performance. In renovation, you'll have to plan around what's already there.
2. Reference available panel sizes, see chart below and select the sizes that work best with your plan/design intent.

Panel Sizes

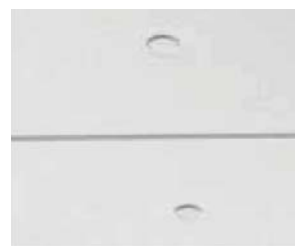
Item	Description
3932	1200 x 1200mm OPTRA Capz
3933	1200 x 2400mm OPTRA Capz
Special sizes available upon request	

Select your Capz!

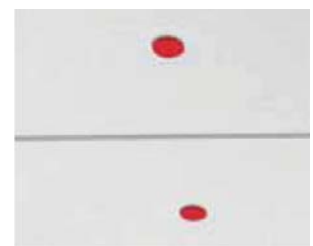
Choose between Standard Colours or special order RAL Colours on your Capz to create the right solution for your space



Standard Colour – White Cap (textured)

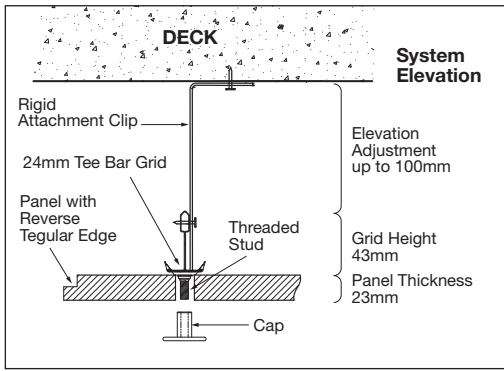


Standard Colour – Silver Cap (smooth)

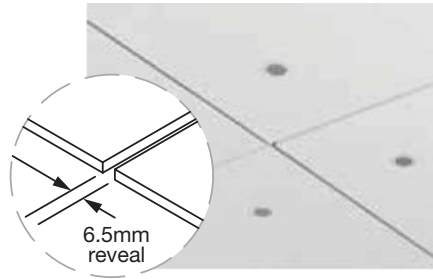


Special order Colour – See RAL Colour on our web site at www.armstrongceilings.com.au

FOUR EASY STEPS TO INSTALL

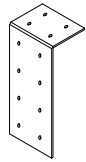


All OPTRA Capz is installed with standard 24mm PeakForm™/Prelude™ grid. May be installed 70-165mm (approximately) from the deck to the panel face.

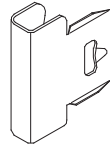


1. Attach adjustable hanger bracket or rigid bracket to the deck.
2. Screw 24mm grid to bracket, insert cross tees and.
3. Snap on threaded stud, raise Capz panel.
4. Thread on cap.

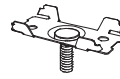
CAPZ HARDWARE COMPONENTS



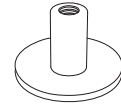
Rigid Attachment Clip



Cross Tee Plug Clip

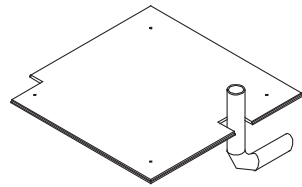


Threaded Stud

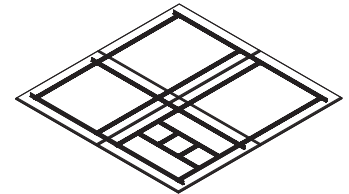


Cap (ARCAP)

HANDLING PENETRATIONS



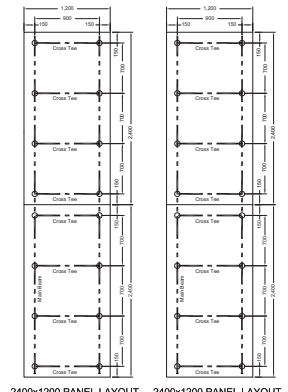
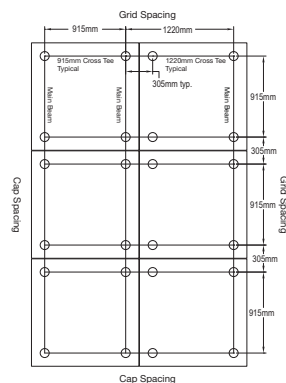
Cut notch to provide 25-50mm clearance around penetration.



Sprinkler heads, speakers or other requirements are easily cut into OPTRA panels; handled like a regular ceiling installation.

LAYOUT IDEAS – CAPZ AND GRID LOCATIONS



In your Technical guide, we've given you some examples of potential layouts, including panel sizes, cap spacing, grid components and details. A complete technical guide as well as installation instructions are available online at armstrong.com.au to assist your installation.



2400x1200 PANEL LAYOUT 2400x1200 PANEL LAYOUT

Additional installation/technical details available at www.armstrongceilings.com.au

PHYSICAL DATA

Material:	OPTRA panels feature a glasswool substrate and acoustically transparent membrane.
Surface Finish:	DuraBrite with factory-applied acrylic latex paint providing superior light reflectance.
Panel Colour:	White  black 
Acoustics:	OPTRA panels provide outstanding acoustical performance. Equivalent NRC 0.95. NOTE: Acoustical properties are negatively affected by paint application to this surface. Direct fix application will reduce absorption.
Panel Deflection:	OPTRA Capz will naturally deflect due to the Capz four-point suspension system. Deflection of up to 3mm has been documented in some cases.
Mould/Mildew and Antimicrobial Resistance:	OPTRA is formulated to inherently resist the growth of microorganisms.
Low/No-Added Formaldehyde:	OPTRA Capz panels are rated "Low Formaldehyde."
Panel Thickness/weight:	30mm: 4kg/m ²

DESIGN CONSIDERATIONS

- In situations where all four suspension points cannot be used, follow our technical guide for recommendations.
- Panels are installation directional and are marked on the back with arrows. Install all OPTRA Capz panels with the directional arrow in the same direction to provide installation consistency, uniform visual and proper panel alignment.
- Product is recommended to be installed at ceiling height of 2.7m or higher.
- Suspension system may be visible when the product is installed at low elevations and may require painting to co-ordinate.



INSTALLATION CONSIDERATIONS

- Please refer to installation instructions AU-297435 before installing OPTRA Capz
- Panels are pre-drilled to accept hardware caps
- Panels may be stacked in layers
- Panels may be installed on a slope using installation guidelines found in installation instructions AU-297435
- For minor surface or edge scratches use the Armstrong® SuperCoat™ Touch-up Paint item #5761

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