OPTIMA®, WOODWORKS®
and METALWORKS™
Radial Custom Ceilings

Between us, ideas become reality™
There were many criteria we considered in our selection process for the appropriate ceiling in the lobby of the University of Utah Hospital. This is the introduction to the building, an opportunity to make a new and dramatic first impression. We had some way-finding challenges to address. We wanted a treatment that suggested movement toward the central core. The ability to customize the ceiling panel in the radial shape was a major consideration. We used the ceiling design as well as the floor to facilitate intuitive movement through the space. In addition, we needed a clean, crisp aesthetic to complement the architecture. Not to be overlooked was the need for a high acoustic rating for a lively space.

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Principal, Architectural NEXUS
## Typical Applications
- Office
- Education
- Hospitality and retail
- Healthcare
- Transportation

## Radial System Overview

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METALWORKS™
Radial Custom

Standard Finish Selection

- White
- Silver Grey
- Gun Metal Grey

Custom Finish Selection

Custom RAL Colors (partial list)
- RAL 1000
- RAL 1001
- RAL 1011
- RAL 1012
- RAL 1021
- RAL 1027
- RAL 1033
- RAL 2000
- RAL 2002
- RAL 3001
- RAL 3005
- RAL 3014
- RAL 4005
- RAL 4007
- RAL 5001
- RAL 5002
- RAL 5012
- RAL 5014
- RAL 5022
- RAL 5018
- RAL 6000
- RAL 6004
- RAL 6017
- RAL 6027
- RAL 6032
- RAL 7005
- RAL 7023
- RAL 7031
- RAL 7042
- RAL 8001
- RAL 8003
- RAL 8023
- RAL 8028
- RAL 9001
- RAL 9018

Key Selection Attributes
- Trapezoidal panels create radial effect
- Distinctive, aesthetic visual
- System typically utilizes the RH200 J-bar and RH215 suspension systems
- All panels are 100% downward accessible
- Panel size determined by design choice
- Variety of perforations and colors available
- NRC 0.65-0.90 available for perforated panels
- Durable, Washable, Scrubbable, Soil-resistant
- Engineered and tested for use in seismic zones
- Class A fire performance

Perforation Options
- Unperforated
- Microperforated Round-Diagonal 138
- Extra Microperforated Round-Straight Rg 0701
- Round-Straight Rg 2516
- Round-Staggered Rv 4058
- Square-Straight Gg 4025

Note: For additional perforation and color options, visit armstrongceilings.com/metalworks or contact Architectural Specialties at 1 877 ARMSTRONG and select options 1-1-4.

Custom RAL Colors (partial list) Refer to CS-3957 for a sampling of Custom RAL colors. Contact Armstrong Architectural Specialties at 1 877 ARMSTRONG, select options 1-1-4 for custom color matching requests.

Due to printing limitations, shade may vary from actual product.

Refer to CS-3957 for a sampling of Custom RAL colors. Contact Armstrong Architectural Specialties at 1 877 ARMSTRONG, select options 1-1-4 for custom color matching requests.
Key Selection Attributes

- Rich, natural wood veneer finishes
- Custom veneer options and veneer management available to coordinate with millwork or other existing wood surfaces
- FSC-certified options available
- Variety of trapezoidal sizes, up to 8’ length, and up to 4’ width
- Perforation options provide NRC 0.40-0.65 based on pattern and infill selected
- Engineered and tested for applications in seismic zones
- ASTM E84 surface burning characteristics: Composite Class A per ASTM E1264, Flame Spread Index 25 or less. Smoke Developed Index 450 or less

Standard Veneer Selection

Natural Variations™
(Real Wood Veneers)

- Beech (NBE)
- Maple (NMP)
- Light Cherry (NLC)
- Dark Cherry (NDC)

Constants™
(Real Wood Veneers)

- Maple (CMA)
- Cherry (CCY)
- Walnut (CWA)

Bamboo
(Rapidly Renewable)

- Patina (BAP)
- Native* (BAN)

* Premium veneer option

Perforation Options

(Actual 1: 8 scale shown)

- Unperforated (W1)
- Round-Straight Rg 6006 (W2)
- Round-Diagonal Rd 6006 (W3)
- Round-Straight Rg 6011 (W4)
- Oval-Straight Slotted Lg 9512 (W5)
- Oval-Straight Slotted Lg 9500 (W6)

Custom Veneer Selection (partial list)

- Custom Red Oak Rift
- Custom African Mahogany Quartered
- Custom Anigre Quartered Figured
- Custom Cherry Quartered
- Custom Sapele Quartered

Note: In addition to standard options, custom veneers, perforations and continuous upturns are available on WoodWorks products. Contact Architectural Specialties for details at 1 877 ARMSTRONG and select options 1-1-4.
**OPTIMA®**
Radial Custom

**Standard Finish Selection**

- White (WH)

**Key Selection Attributes**

- Smooth, non-directional finish on scratch-resistant surface
- DuraBrite® surface for excellent durability and superior light reflectance (reduces lighting and energy costs up to 18%)
- Outstanding acoustical performance in both Articulation Class (190-200) and NRC (0.90–0.95)
- Durable:
  - Washable, Impact-resistant
  - Scratch-resistant, Soil-resistant
- Humidity-resistant HumiGuard® Plus performance to inhibit panel sag
- ASTM E1264 Classification – Type XII, Form 2, Pattern E

Optima Radial Custom in White with Prelude® grid
The following are key design factors to consider for Optima Radial ceilings. Please review these system capabilities and limitations carefully.* For additional information, consult the Optima Radial Technical Guide, CS-4161.

### One-sided:
- A one-sided trapezoidal panel is available
- Refer to Optima Radial Technical Guide for additional capabilities

### Two-sided:
- A two-sided trapezoidal panel is available
- Each tapered side MUST be symmetrical
- Refer to Optima Radial Technical Guide for additional capabilities

### Width:
- Trapezoid panels are available in widths from 12" to 48"

### Length:
- Trapezoidal panels are available in 8 lengths from 24" to 66"
- Lengths are only available in the following 6" increments: 24", 30", 36", 42", 48", 54", 60" and 66"

### Minimum radius:
- The minimum achievable radius is 12'. This is based on a minimum panel edge of 12" with the maximum tapers noted below
- Optima Radial CANNOT be used inside this 12' radius – drywall may be a suitable alternative

### Taper:
- The maximum taper angle per side for all trapezoids is 2.5 degrees
- For two-sided trapezoids, the taper angle must be equal on both sides (i.e., symmetrical) for a maximum of 5 degrees

*Note: These do not apply to WoodWorks® or MetalWorks™ Radial ceilings. Please consult with Architectural Specialties at 1 877 ARMSTRONG and select options 1-1-4, or visit armstrongceilings.com/radial for more details.*
armstrongceilings.com/radial

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