CEILING SYSTEMS

Between us, ideas become reality™

OPTIMA® RADIAL

Custom Ceiling Systems Technical Guide

This booklet provides drawings, details and specification information for Optima Radial Custom Ceiling Systems.

Key Selection Attributes

- Smooth, nondirectional finish on scratch-resistant surface
- DuraBrite surface for excellent durability and superior light reflectance (reduces lighting and energy costs by 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

In this Booklet (also found on armstrong.com/radial)

- Page 1 Attributes and Applications
- Page 2 System Overview
- Page 3 One-sided Panel Capabilities
- Page 4 Two-sided Panel Capabilities
- Pages 5-7 Layout Options



Typical Applications

- Office
- Education
- · Hospitality and retail
- Healthcare
- Transportation



SYSTEM OVERVIEW

The following are key design factors to consider for use of Optima Radial ceilings. Please review these system capabilities and limitations carefully.*



This shows some specific capabilities based on the design factors and limitations described on page 2 for a one-sided trapezoid.

Panel Size Limitations:

- Minimum 12" width by 24" length
- Maximum 45" width by 66" length



| Width-Side "A" | | | | | | | | | | | | | |
|----------------|----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| <u> </u> | | 12 | 15 | 18 | 21 | 24 | 27 | 30 | 33 | 36 | 39 | 42 | 45 |
| e P | 24 | 13.047 | 16.047 | 19.047 | 22.047 | 25.047 | 28.047 | 31.047 | 34.047 | 37.047 | 40.047 | 43.047 | 46.047 |
| Sid | 30 | 13.309 | 16.309 | 19.309 | 22.309 | 25.309 | 28.309 | 31.309 | 34.309 | 37.309 | 40.309 | 43.309 | 46.309 |
| ģ | 36 | 13.570 | 16.570 | 19.570 | 22.570 | 25.570 | 28.570 | 31.570 | 34.570 | 37.570 | 40.570 | 43.570 | 46.570 |
| Len | 42 | 13.832 | 16.832 | 19.832 | 22.832 | 25.832 | 28.832 | 31.832 | 34.832 | 37.832 | 40.832 | 43.832 | 46.832 |
| | 48 | 14.094 | 17.094 | 20.094 | 23.094 | 26.094 | 29.094 | 32.094 | 35.094 | 38.094 | 41.094 | 44.094 | 47.094 |
| | 54 | 14.355 | 17.355 | 20.355 | 23.355 | 26.355 | 29.355 | 32.355 | 35.355 | 38.355 | 41.355 | 44.355 | 47.355 |
| | 60 | 14.617 | 17.617 | 20.617 | 23.617 | 26.617 | 29.617 | 32.617 | 35.617 | 38.617 | 41.617 | 44.617 | 47.617 |
| ¥ | 66 | 14.879 | 17.879 | 20.879 | 23.879 | 26.879 | 29.879 | 32.879 | 35.879 | 38.879 | 41.879 | 44.879 | 47.879 |

The interior area of the chart represents Maximum "B" Dimensions

This shows some specific capabilities based on the design factors and limitations described on page 2 for a two-sided trapezoid.

Panel Size Limitations:

- Minimum 12" width by 24" length
- Maximum 45" width by 66" length



The interior area of the chart represents Maximum "B" Dimensions

| | Width-S | side "A" | / | | | | | 1 | | | | |
|----|---------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 12 | 15 | 18 | 21 | 24 | 27 | 30 | 33 | 36 | 39 | 42 | 45 |
| 24 | 14.094 | 17.094 | 20.094 | 23.094 | 26.094 | 29.094 | 32.094 | 35.094 | 38.094 | 41.094 | 44.094 | 47.094 |
| 30 | 14.617 | 17.617 | 20.617 | 23.617 | 26.617 | 29.617 | 32.617 | 35.617 | 38.617 | 41.617 | 44.617 | 47.617 |
| 36 | 15.141 | 18.141 | 21.141 | 24.141 | 27.141 | 30.141 | 33.141 | 36.141 | 39.141 | 42.141 | 45.141 | 48.000 |
| 42 | 15.664 | 18.664 | 21.664 | 24.664 | 27.664 | 30.664 | 33.664 | 36.664 | 39.664 | 42.664 | 45.664 | 48.000 |
| 48 | 16.187 | 19.187 | 22.187 | 25.187 | 28.187 | 31.187 | 34.187 | 37.187 | 40.187 | 43.187 | 46.187 | 48.000 |
| 54 | 16.711 | 19.711 | 22.711 | 25.711 | 28.711 | 31.711 | 34.711 | 37.711 | 40.711 | 43.711 | 46.711 | 48.000 |
| 60 | 17.234 | 20.234 | 23.234 | 26.234 | 29.234 | 32.234 | 35.234 | 38.234 | 41.234 | 44.234 | 47.234 | 48.000 |
| 66 | 17.758 | 20.758 | 23.758 | 26.758 | 29.758 | 32.758 | 35.758 | 38.758 | 41.758 | 44.758 | 47.758 | 48.000 |

LAYOUT OPTIONS

Circular Radial Layout



LAYOUT OPTIONS

Sectional Cloud Radial Layout



LAYOUT OPTIONS

Sectional Radial Layout





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