

CEILING SYSTEMS

[Between us, ideas become reality.™]

Radial Ceilings

OPTIMA™, WOODWORKS™, METALWORKS™

Relative Installed Cost

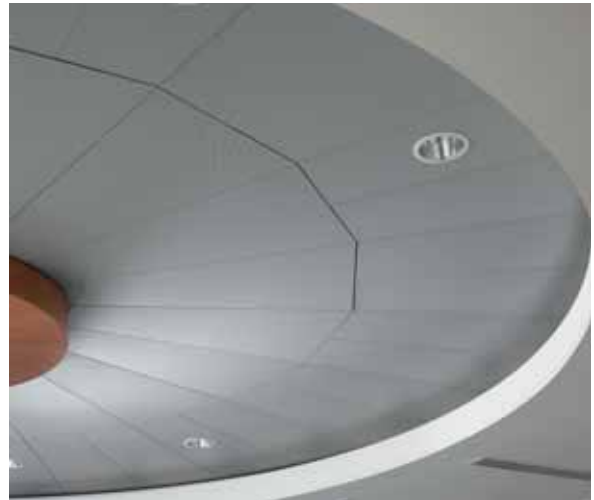
\$	\$\$	\$\$\$	\$\$\$\$
----	------	--------	----------



WOODWORKS Radial Ceilings



OPTIMA Radial Ceilings



METALWORKS Radial Ceilings

Today's building designs call for custom solutions that complement your design intent. New Radial Ceilings in metal, wood and fiberglass offer you 3 substrates and a multitude of veneer and finish options.

Key Selection Attributes

- Radial ceilings available in wood, metal and fiberglass
- For detailed information on Optima Radial capabilities, see pages 2-5
- For information on WoodWorks and MetalWorks Radial capabilities, see pages 5-6 and consult with Architectural Specialties
- Individual product data varies by substrate, please refer to summary on page 5

Installation

- Architectural Specialties assists in the design process
- Recommended layout provides ease, accuracy and design integrity
- Multiple perimeter solutions to meet your needs

Typical Applications

- Lobbies
- Corridors
- Open office spaces
- Auditoriums
- Accent Clouds

Recycled Content:

Optima

40%

WoodWorks

45%

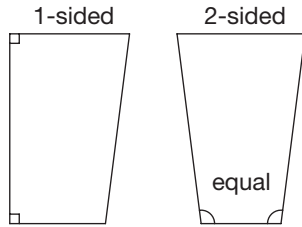
MetalWorks

25%



OPTIMA Radial Overview

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



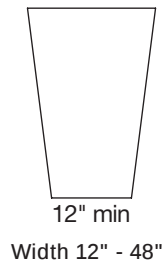
One-sided or symmetrical two-sided trapezoid

One-sided:

- A one-sided trapezoidal panel is available
- Capabilities shown on page 3

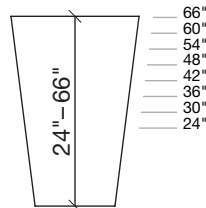
Two-sided:

- A two-sided trapezoidal panel is available
- Each tapered side MUST be symmetrical
- Capabilities shown on page 4



Width:

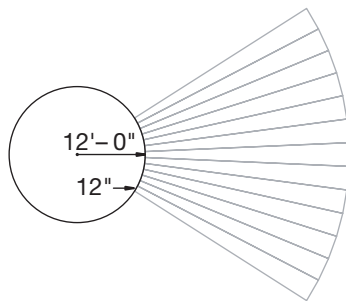
- Trapezoid panels are available in widths from 12" to 48"
- See charts with sample widths on pages 3-4 (Note: capabilities are not limited to the 3" intervals shown)



Length 24"-66" in 6" increments

Length:

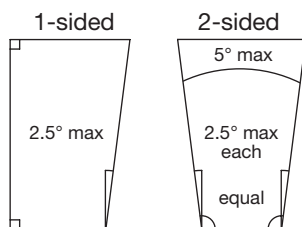
- Trapezoidal panels are available in 8 lengths from 24" to 66"
- Lengths are only available in the following 6" increments: 24," 30," 36," 42," 48," 54," 60" and 66"



Minimum radius 12'-0"
(12" minimum panel edge)

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 maximum 2.5° angle
per side

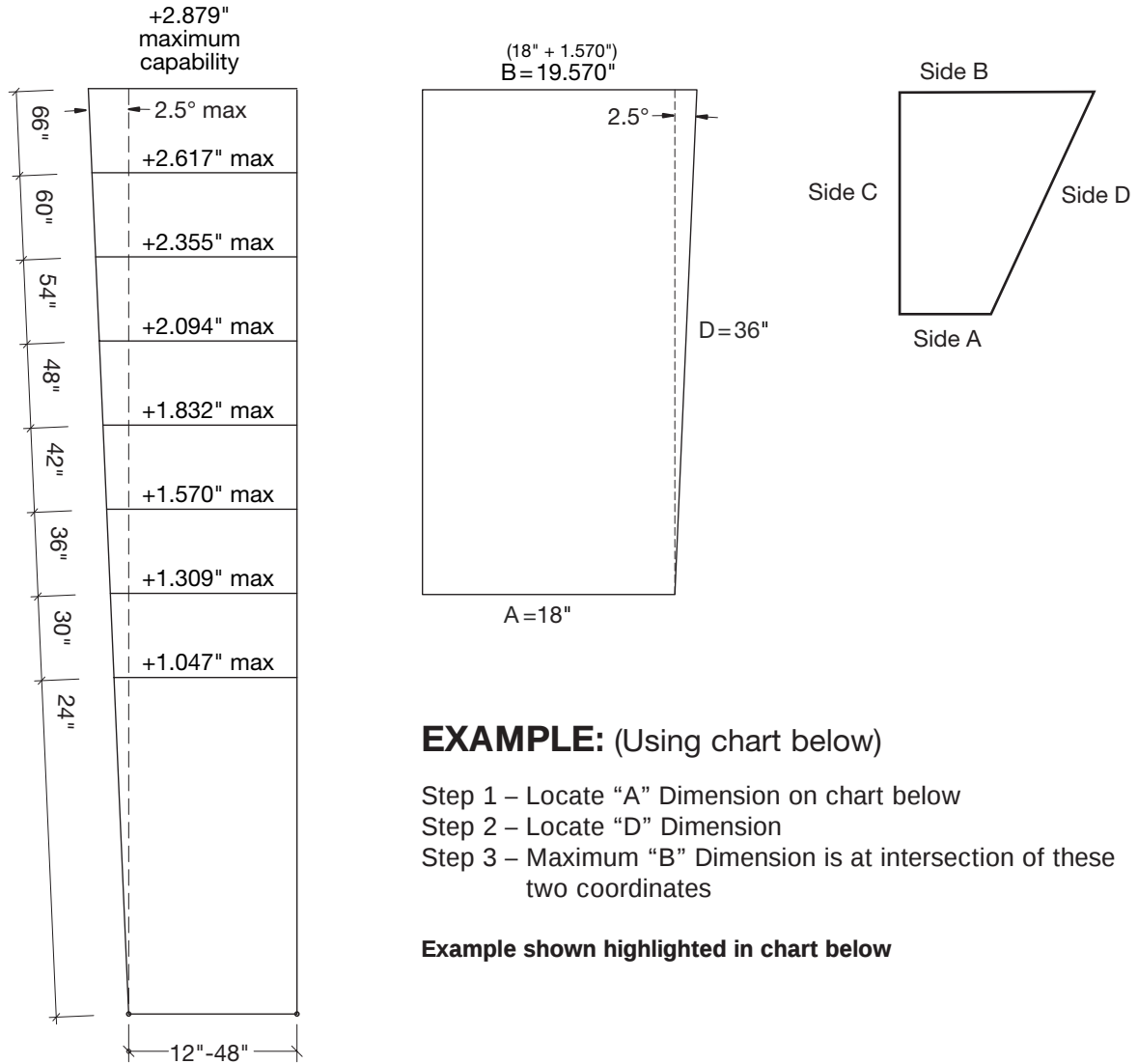
Taper:

- 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 refer to page 6 for these system capabilities and consult with Architectural Specialties at 1-877-276-7876 1-1-4 for more details.

OPTIMA – One Sided Capabilities

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



EXAMPLE: (Using chart below)

- Step 1 – Locate "A" Dimension on chart below
- Step 2 – Locate "D" Dimension
- Step 3 – Maximum "B" Dimension is at intersection of these two coordinates

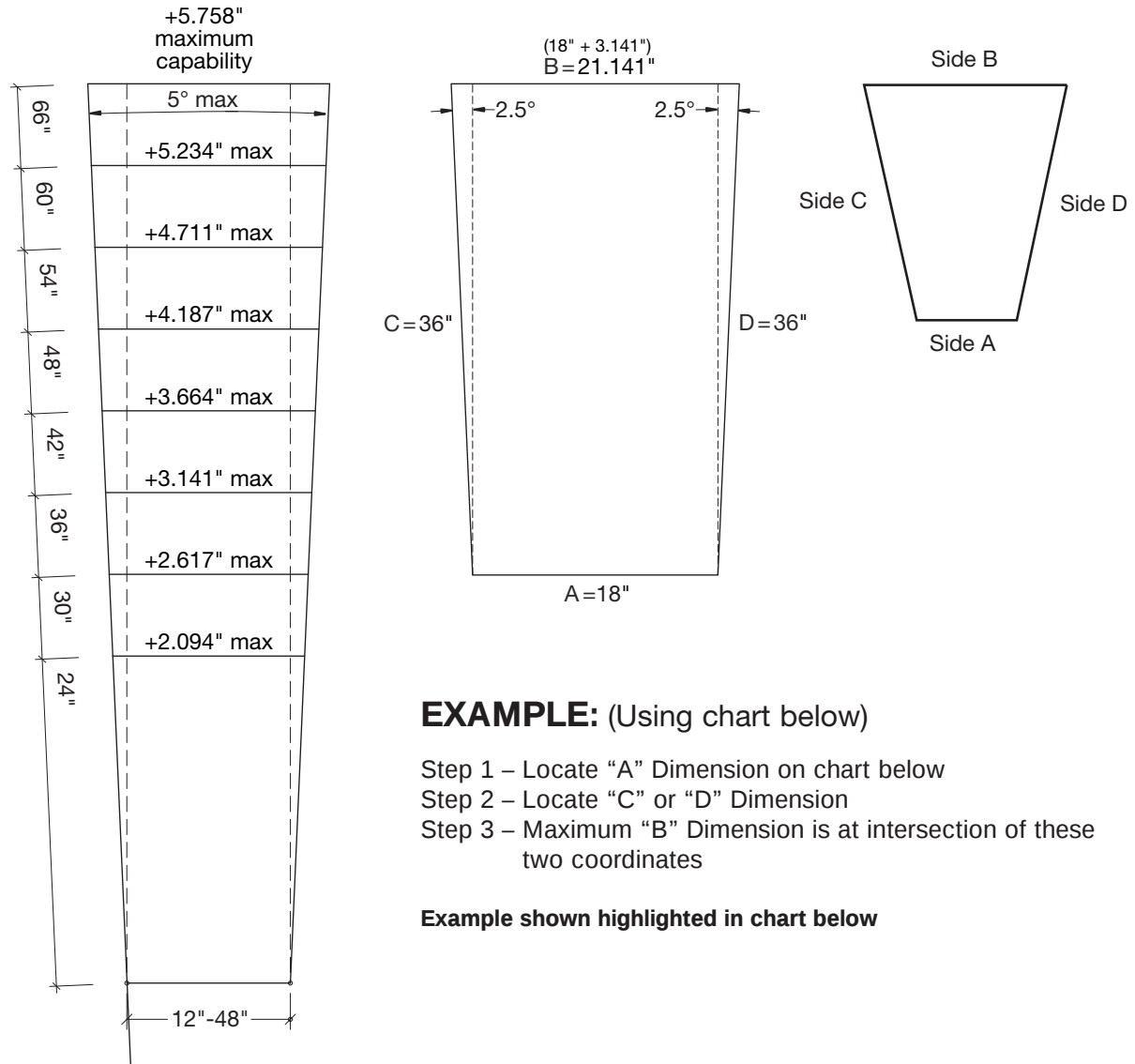
Example shown highlighted in chart below

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

Width – Side “A” 													
Length – Side “D” 		12	15	18	21	24	27	30	33	36	39	42	45
	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
	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
	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
	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

OPTIMA – Two Sided Capabilities

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



EXAMPLE: (Using chart below)

- Step 1 – Locate "A" Dimension on chart below
- Step 2 – Locate "C" or "D" Dimension
- Step 3 – Maximum "B" Dimension is at intersection of these two coordinates

Example shown highlighted in chart below

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

Width – Side “A” 													
Length – Side “C” or “D” 		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

OPTIMA Radial

Aesthetic Criteria

- Smooth, nondirectional finish on scratch-resistant surface

Performance Criteria

- 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 E 1264 Classification – Type XII, Form 2, Pattern E

Recycled Content:
40%



White



WOODWORKS Radial

Aesthetic Criteria

- Rich, natural wood veneer finishes
- Custom veneer options and veneer management available to coordinate with millwork or other existing wood surfaces
- Available in unperforated or a variety of perforation patterns

Performance Criteria

- Fire Performance Class A per IBC
- NRC .40 – .75 available based on perforation pattern and fiberglass infill panels
- WOODWORKS custom systems have been engineered and tested for applications in seismic zones

Recycled Content:
45%



Beech
Natural Variations



Cherry
Natural Variations



Maple
Natural Variations

METALWORKS Radial

Aesthetic Criteria

- Standard material is electrogalvanized steel
- Metal finishes can coordinate with other existing interior metal finishes
- Standard Global White, Silver Grey and Gun Metal Grey finishes; custom RAL colors available
- Variety of perforation patterns available

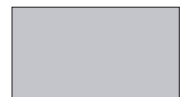
Performance Criteria

- Fire performance Class A per IBC
- METALWORKS custom systems have been engineered and tested for applications in seismic zones. Most systems meet requirements for seismic zones 3-4 and categories D, E and F
- Factory-applied powder-coated finish for extra durability
- NRC 0.65 – 0.90 available, based on perforation pattern and back-loaded acoustical fleece or fiberglass infill panels

Recycled Content:
25%



Gun Metal Grey (MY)



Silver Grey (SG)

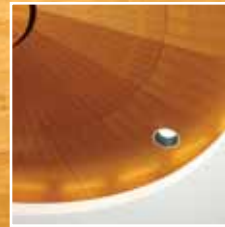


White (WH)

Radial Ceilings



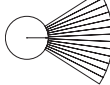
OPTIMA



WOODWORKS



METALWORKS

Product	Panels	Length	Width	System Capabilities		Suspension System
OPTIMA	Custom trapezoid lay-in, Custom trapezoid tegular	6" intervals from 24"-66"	12"-48"	• Meets taper up to 5° • Minimum inside radius 12' • Center must be a separate component • See pages 2-4 for details		Interlude, SupraFine, Prelude (accessible) with custom Cross Tees
WOODWORKS	Custom trapezoid	Job specific up to 8'	Job specific up to 4'	• 360° • Center must be a separate component • Edges can be curved		DP59 (non-accessible) Access Hook On (accessible)
METALWORKS	Custom trapezoid	Job specific	Job specific	• 360° • Center must be a separate component		RH200 (accessible)

For more information and design assistance,
please contact:

1 877 ARMSTRONG 1 - 1 - 4
1 877 276 7876 - Ask for Architectural Specialties
armstrong.com/ceilings
CS-3648-1205

Printed in the United States of America
© AWI Licensing Company, 2005
10% post consumer waste. Printed with vegetable inks.
 Recyclable.

