RCP Shelters, Inc.

Laminated Wood Catalog





rcpshelters.com

1 About RCP Shelters
2 Core Values & Processes
4 Product Lineup
6 Gable
8 Hexagon
10 Hip
12 Octagon
13 Square
16 Roofing Options
18 Color Selections
20 Options & Accessories
22-25 Gallery



RCP Shelters, Inc.

info@rcpshelters.com | 800-525-0207

rcpshelters.com

About RCP Shelters

From humble beginnings, mechanical engineer James Ritter founded RCP Shelters in 1957. His vision was to provide superior quality construction materials at competitive prices. RCP continues this tradition today as a small, third generation, family-owned business. Today, RCP is the industry's most diverse shelter manufacturer. We offer a variety of pre-engineered structures available in Laminated Wood and Tube Steel.

Our products have been used for numerous purposes, such as:

- **Gazebos, Pavilions, & Shelters**
- **Amphitheaters & Band Shells**
- **Dugouts**
- **Bleacher Covers**
- **Playground Covers**
- **Mini Shelters & Kiosks**
- **Trellis, Arbor, & Pergola Designs**
- **Enclosed, Concession, & Restroom Shelters**

Each project is individually engineered to meet or exceed local building code and loading conditions. Our flexible designs have met 265 psf snow loads in the Rocky Mountains and 186 mph wind loads in South Florida. Whether your next project is small or large, custom or standard, RCP can provide a shelter that meets your needs. Our experienced, friendly staff looks forward to working with you!







Core Values & Processes

Health Before Wealth

- Family comes first
- Physical and mental health are our top priorities
- Balance promotes consistent growth

Be a Part of the Dream Team

- Trust in your coworkers
- Hold yourself accountable
- Strong communication is essential

Our Direction Is to Strive for Perfection

- Take the initiative
- Assessing, addressing and solving challenges
- Set goals and outline the requirements necessary to achieve those goals

Stable Foundations Made from Strong Relations

- Customer service is our priority
- Community service is our duty
- Our success is defined by the prosperity of our vendors and representatives

RCP's engineers are licensed and certified in all 50 states and Canada. Each project is individually engineered to meet or exceed local building code regulations. RCP's fabrication facilities are AITC and AISC certified. RCP's welders and inspectors are AWS certified for guaranteed quality. RCP's sanitary designs eliminate all places for birds or animals to roost.

RCP's glued laminated wood beams are manufactured to architectural grade and individually wrapped for superior protection

RCP's 65+ year legacy continues as a third generation, family owned business.

RCP's expertise in glued laminated wood fabrication allows for us to easily curved beams giving you the architectural freedom to create unique building lines in an affordable and efficient manner.

RCP's in-house powder coating facility shot blasts, phosphate washes, powder coat primes, and powder coat finishes steel members using durable polyester TGIC powder. RCP's powder coating finish surpasses the industry standards for quality and longevity having passed independent testing with exceptional results. In-house finishing prevents unnecessary damage of your shelter by minimizing the transportation and handling of materials.

RCP's cupolas are shop assembled for simple field installation, resulting in significantly lower installation costs and increased quality.

RCP's standard tongue and groove roof deck is #1 grade nominal 2" x 8", which requires fewer runs than 2" x 6", resulting in lower installation costs.

RCP's sole business focus is park structures. Our dedicated staff has the knowledge and experience to assist with your project's requirements in a timely manner.

RCP's glued laminated wood columns are treated prior to gluing resulting in superior protection to decay and infestation. Typical wood column treatment doesn't reach the column's center causing the core to rot out.

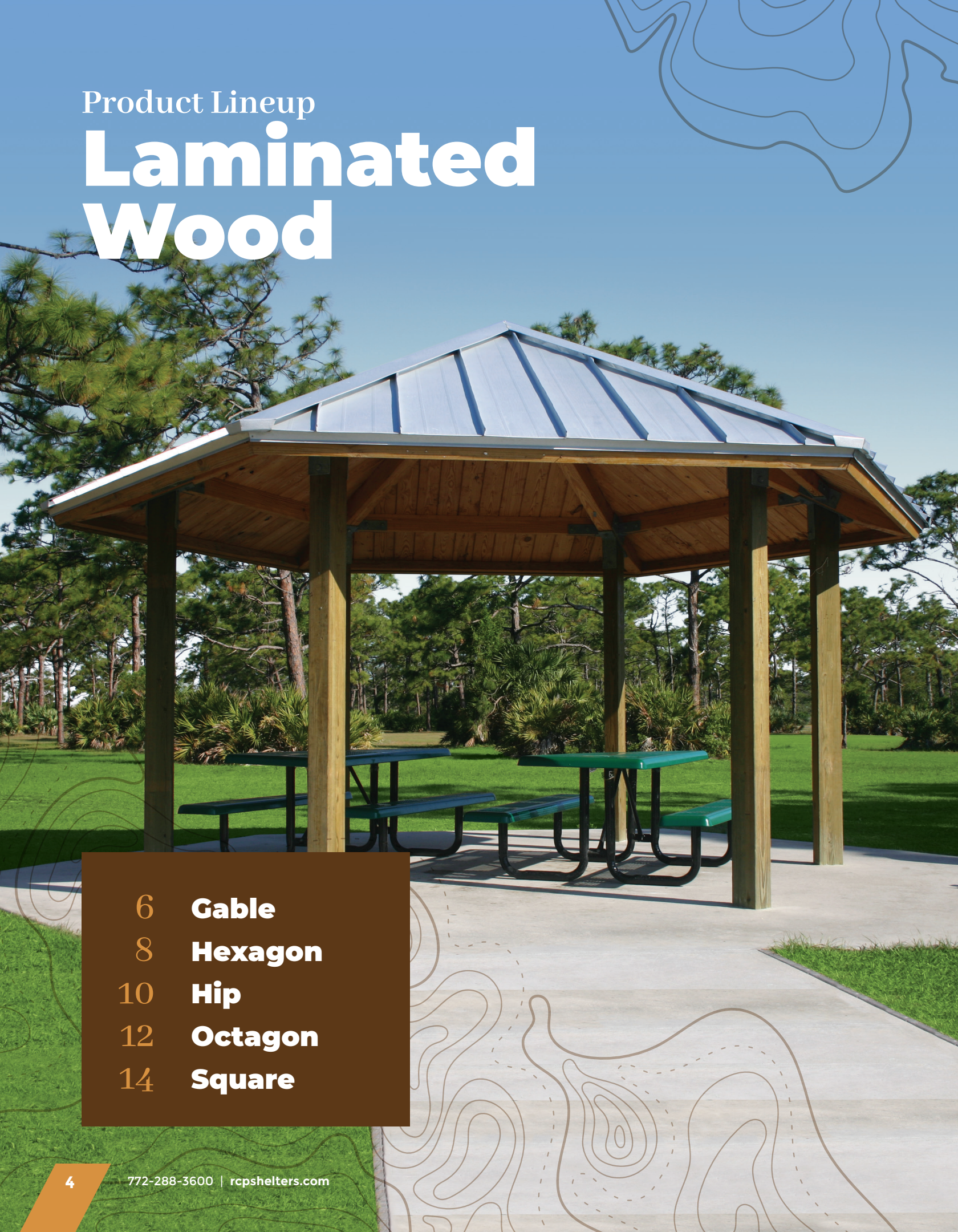
RCP's steel column and base shoe fixed moment base design utilizes concrete to conceal the anchor bolts, which lowers material and installation costs. Inferior designs require a column access hole and cover plate that is eaily removed by vandals, exposing the unprotected interior of the column to corrosion.

RCP's glued laminated products come standard with powder coated finished steel connections fabricated in our AISC certified shop by AWS certified welders. Handmade for each structure to ensure the perfect field fit up.

RCP's industry leading customer service remains unsurpassed.

Product Lineup

Laminated Wood



6 Gable
8 Hexagon
10 Hip
12 Octagon
14 Square

Glued laminated wood is a highly innovative material that utilizes individual pieces of high strength lumber formed under pressure to create large structural members that retain the traditional beauty of wood along with extraordinary strength and superior fire resistance

RCP engineers utilize space frame analysis to size the glued laminated wood specifically to meet or exceed local code and loading requirements. RCP's fabrication facilities assure compliance by performing daily tests on the glue joints for strength and durability. Our quality control system is approved and monitored by the American Institute of Timber Construction.

Advantages

- Natural beauty of a real wood finish
- Economical curved members
- Environmentally sustainable material
- Easy installation
- Architectural freedom
- Large clear span capabilities
- Structural flexibility
- Firesafe material with high strength retention
- Robotic precision fabrication



Design Criteria: Structure shall be designed to be free standing, open air pavilion in conformance with all applicable building codes.

Scope: Structure shall be a glued laminated pavilion over a 4" minimum thickness reinforced concrete slab. Pavilion shall have a clear space, without a center column or open knee bracing. Structure shall be designed by professional engineers. The owner or contractor shall be responsible for unloading, temporary storage, soil testing (if necessary), site preparation, concrete slab, and erection of structures. Owner or contractor is responsible for protection of materials after arrival.

Columns: Columns shall be glued laminated southern pine, APA/EWA certified. Members shall be pressure treated minimum CCA 0.4 pcf and sized to meet loading requirements. Column embedment shall be a minimum of 3' below finished grade.

NOTE: *Detailed 3-part specifications are available upon request.*

Beams: Beams shall be glued laminated southern pine, APA/EWA certified. Members shall be factory sealed and individually wrapped for protection in transit. Unloading note: To minimize damage to the beams during unloading, owner or contractor should utilize padded forks or non-marring slings.

Roof Deck & Fascia: Roof deck shall be nominal 2" x 8" #1 grade, T&G, SYP, edge veed one side, kiln dried, and furnished in specified lengths such that all joints occur over a laminated beam support. #2 grade and/or random length end-matched deck shall not be acceptable. Fascia shall be nominal 2" x 6" #1 grade Alaskan Yellow Cedar (AYC).

Factory Stain: Beams, T&G roof deck, wood columns, and fascia shall receive factory applied Sherwin Williams semi-transparent wood stain. The color shall be "Natural" unless otherwise requested. Color charts available upon request.

Quality Assurance: Structure shall be designed under direct supervision of a Professional Engineer experienced in design of this type of work and licensed in the state where the project is located.

Structure shall be fabricated in our shop that is certified by the American Institute of Steel Construction (AISC) and American Institute of Timber Construction (AITC), requiring quality control documentation and procedures. All welding to be performed to American Welding Society (AWS) standards by AWS certified welders.

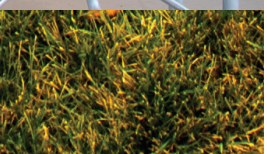
Laminated Wood
Gable













Gable roofs slope in two directions creating a simple, cost-efficient design with a high clearance and open ends for increased natural lighting.

Features

Drawings & Calculations: drawings sealed by registered, professional engineer with complimentary foundation design

Columns: treated glued laminated Southern Yellow Pine columns, architectural grade

Structural Beams: glued laminated Southern Yellow Pine beams, architectural grade

Roof Deck: 2x8 tongue & groove Southern Yellow Pine roof deck, #1 grade

Fascia: 2x6 Alaskan Yellow Cedar fascia, #1 grade

Wood Stain: Factory stained finish on all exposed wood products

Connections: Factory powder coated steel connections

Roof Pitch: 3:12 or 4:12

No place for birds or animals to roost

Options

Finish: Hot-dipped galvanized steel connections

Powder coated tube steel columns

Roofing: 30-year shingle roofing

Roofing: 26-gauge exposed fastener metal roofing

Roofing: 24-gauge true standing seam metal roofing

Factory assembled cedar louvered cupola

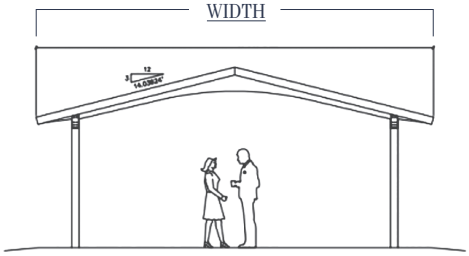
2nd tier clerestory superstructure

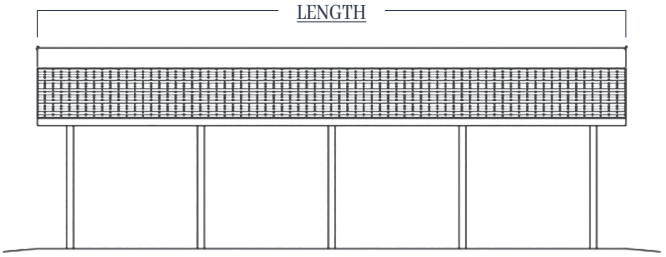
Base shoes to surface mount wood columns

Arches: solid or open-knee

Popular Sizes

- **Roof Widths**: 12’ 16’ 20’ 24’ 30’, 40’
- **Roof Lengths**: 12’ 20’ 28’ 36’ 44’ 52’ 60’, 68’ (+8’ increments)
- **Custom Sizes**: Available upon request





Laminated Wood
Hexagon



Six-sided shelters that maximizes usable area while utilizing a hip roof for superior protection against the elements.

Features

Drawings & Calculations: drawings sealed by registered, professional engineer with complimentary foundation design

Columns: treated glued laminated Southern Yellow Pine columns, architectural grade

Structural Beams: glued laminated Southern Yellow Pine beams, architectural grade

Roof Deck: 2x8 tongue & groove Southern Yellow Pine roof deck, #1 grade

Fascia: 2x6 Alaskan Yellow Cedar fascia, #1 grade

Wood Stain: Factory stained finish on all exposed wood products

Connections: Factory powder coated steel connections

Roof Pitch: 4:12 or 6:12

No place for birds or animals to roost

Options

Finish: Hot-dipped galvanized steel connections

Powder coated tube steel columns

Roofing: 30-year shingle roofing

Roofing: 26-gauge exposed fastener metal roofing

Roofing: 24-gauge true standing seam metal roofing

Factory assembled cedar louvered cupola

Ornamentation & railings

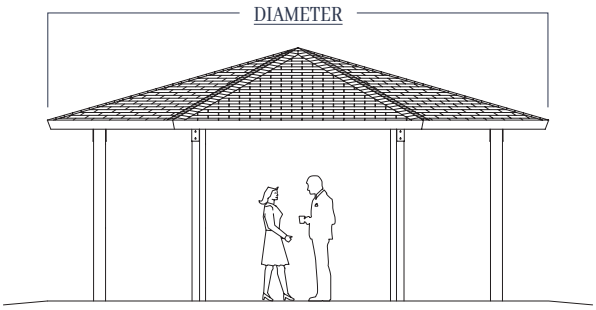
2nd tier clerestory superstructure

Base shoes to surface mount wood columns

Arches: solid or open-knee

Popular Sizes

- **Roof Diameters**: 12’ 16’ 20’ 24’ 30’, 40’
- **Custom Sizes**: Available upon request









Laminated Wood

Hip











Four-sided rectangular shaped roofs that are sloped downward on all sides for maximum structural stability and excel at providing protection against sun, wind, and rain.

Features

Drawings & Calculations: drawings sealed by registered, professional engineer with complimentary foundation design

Columns: treated glued laminated Southern Yellow Pine columns, architectural grade

Structural Beams: glued laminated Southern Yellow Pine beams, architectural grade

Roof Deck: 2x8 tongue & groove Southern Yellow Pine roof deck, #1 grade

Fascia: 2x6 Alaskan Yellow Cedar fascia, #1 grade

Wood Stain: Factory stained finish on all exposed wood products

Connections: Factory powder coated steel connections

Roof Pitch: 3:12 or 4:12

No place for birds or animals to roost

Options

Finish: Hot-dipped galvanized steel connections

Powder coated tube steel columns

Roofing: 30-year shingle roofing

Roofing: 26-gauge exposed fastener metal roofing

Roofing: 24-gauge true standing seam metal roofing

Factory assembled cedar louvered cupola

Ornamentation & railings

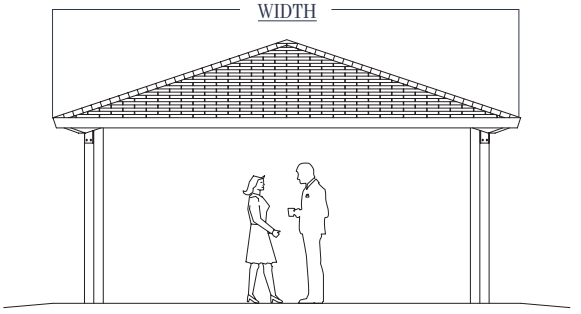
2nd tier clerestory superstructure

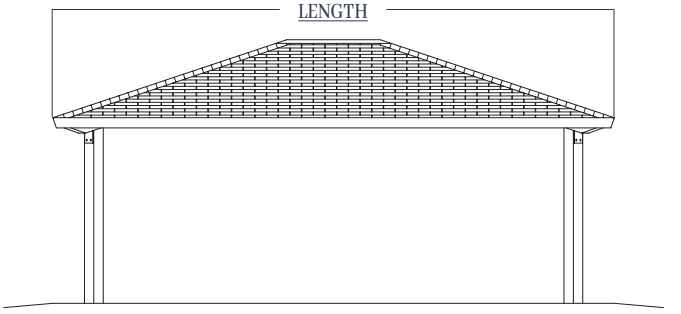
Base shoes to surface mount wood columns

Arches: solid or open-knee

Popular Sizes

- **Roof Widths**: 12’ 16’ 20’ 24’ 30’, 40’
- **Roof Lengths**: 16’, 20’, 24’, 30’, 36’, 40’, 48’, 60’
- **Custom Sizes**: Available upon request





Laminated Wood
Octagon

Eight-sided shelters that maximizes usable area while utilizing a hip roof for superior protection against the elements.



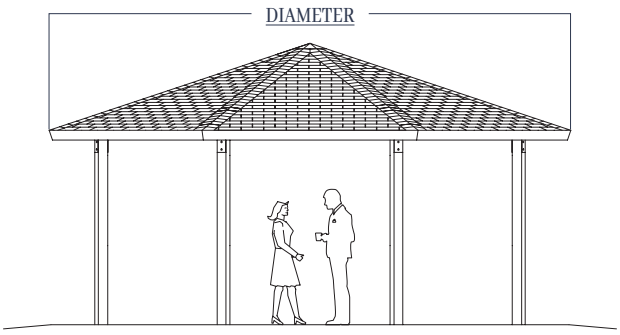


Features

- **Drawings & Calculations:** drawings sealed by registered, professional engineer with complimentary foundation design
- **Columns:** treated glued laminated Southern Yellow Pine columns, architectural grade
- **Structural Beams:** glued laminated Southern Yellow Pine beams, architectural grade
- **Roof Deck:** 2x8 tongue & groove Southern Yellow Pine roof deck, #1 grade
- **Fascia:** 2x6 Alaskan Yellow Cedar fascia, #1 grade
- **Wood Stain:** Factory stained finish on all exposed wood products
- **Connections:** Factory powder coated steel connections
- **Roof Pitch:** 4:12 or 6:12
- No place for birds or animals to roost

Options

- **Finish:** Hot-dipped galvanized steel connections
- Powder coated tube steel columns
- **Roofing:** 30-year shingle roofing
- **Roofing:** 26-gauge exposed fastener metal roofing
- **Roofing:** 24-gauge true standing seam metal roofing
- Factory assembled cedar louvered cupola
- Ornamentation & railings
- 2nd tier clerestory superstructure
- Base shoes to surface mount wood columns
- **Arches:** solid or open-knee



Popular Sizes

- **Roof Diameters**: 16', 20', 24', 30', 36', 40'
- **Custom Sizes**: Available upon request



Laminated Wood

Square











Four-sided pyramid shaped roofs that are sloped downward on all sides for maximum structural stability and excel at providing protection against sun, wind, and rain. Square hips are symmetrical on all sides resulting in a cost effective solution for any application.

Features

Drawings & Calculations: drawings sealed by registered, professional engineer with complimentary foundation design

Columns: treated glued laminated Southern Yellow Pine columns, architectural grade

Structural Beams: glued laminated Southern Yellow Pine beams, architectural grade

Roof Deck: 2x8 tongue & groove Southern Yellow Pine roof deck, #1 grade

Fascia: 2x6 Alaskan Yellow Cedar fascia, #1 grade

Wood Stain: Factory stained finish on all exposed wood products

Connections: Factory powder coated steel connections

Roof Pitch: 4:12 or 6:12

No place for birds or animals to roost

Options

Finish: Hot-dipped galvanized steel connections

Powder coated tube steel columns

Roofing: 30-year shingle roofing

Roofing: 26-gauge exposed fastener metal roofing

Roofing: 24-gauge true standing seam metal roofing

Factory assembled cedar louvered cupola

Ornamentation & railings

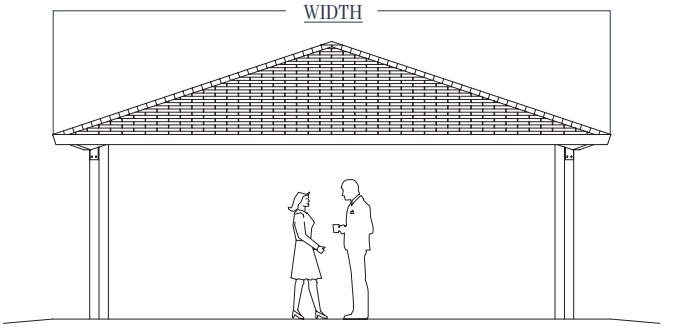
2nd tier clerestory superstructure

Base shoes to surface mount wood columns

Arches: solid or open-knee

Popular Sizes

- **Roof Widths**: 12’, 16’, 20’, 24’, 30’, 40’
- **Custom Sizes**: Available upon request

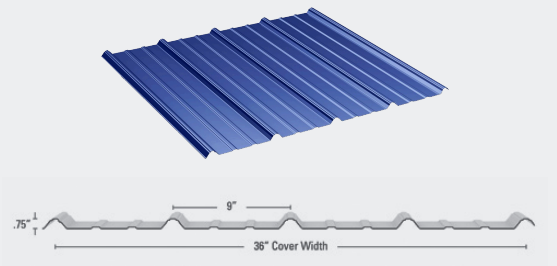


Roofing Options

Shingles

- Alternative roofing material for shelters with a wood roof deck system
- Lifetime warranty (30 year)
- Two-piece laminated fiber glass-based construction
- Includes underlayment, drip, and nails



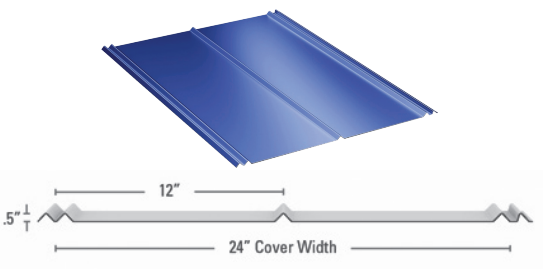


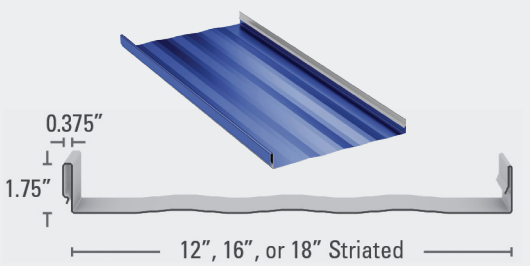
Max-Rib

- Standard for shelters with a wood roof deck system
- Exposed fastener panel
- 26 gauge Galvalume®
- Kynar 500 finish

5V Panel

- Alternative panel for shelters with a wood roof deck system
- Exposed fastener panel
- 26 gauge Galvalume®
- Kynar 500 finish





Medallion-Lok

- Premium alternative for steel shelters & wood roof deck systems
- True standing seam
- Hidden fastener panel
- Snap-together seams (no mechanical seaming)
- 24 gauge Galvalume®
- Kynar 500 finish



MEDALLION-LOK



MAX-RIB



MAX-RIB



5V

SHINGLES

Color Selections

Metal Roofing Colors

The KYNAR 500® paint system outperforms polyester powder, urethane, silicone polyester and acrylic coating in every category with better color retention, better gloss retention, and better resistance to chalking. This high performance paint coating offers protection against weathering, aging, and pollution. Its performance keeps the painted metal looking vibrant year after year.

26 GAUGE COLORS - MAX-RIB, 5V PANEL



24 GAUGE COLORS - MEGA-RIB, MULTI-RIB, MEDALLION-LOK



NOTE: *The colors on this chart do not necessarily depict the exact colors of the products and should only be used as a guide for color selection.*

Powder Coat Colors

RCP's industry leading in-house powder coating is finished with TGIC polyester powder coat paint that offers excellent application and performance characteristics. Diamond Vogel's T-Series Powder Coating's tightly controlled particle size distribution provides extremely good first-pass transfer efficiencies. The polyester powder coating provides super weatherability, corrosion resistance, and chemical resistance in one superior coating.

POWDER COAT COLORS



Natural Wood Stains

Factory applied Sherwin Williams SuperDeck provides a penetrating oil-based formula that protects the beauty of wood with a rich transparent exterior grade stain.

COLUMNS/BEAMS/FASCIA COLORS



DECK COLORS



NOTE: *The colors on this chart do not necessarily depict the exact colors of the products and should only be used as a guide for color selection.*

Options & Accessories

Rails & Overhead Ornamentation

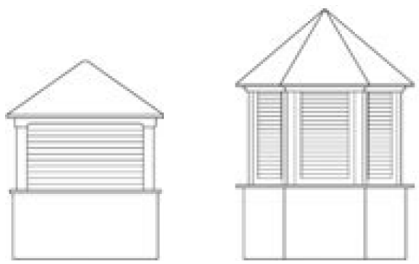
Steel rails and ornamentation are available in an endless variety, including custom designs. All RCP designs are fabricated to exceed protective railing codes.



O | PICKET | DIAMOND | SCOUT | CROSS

Cupolas

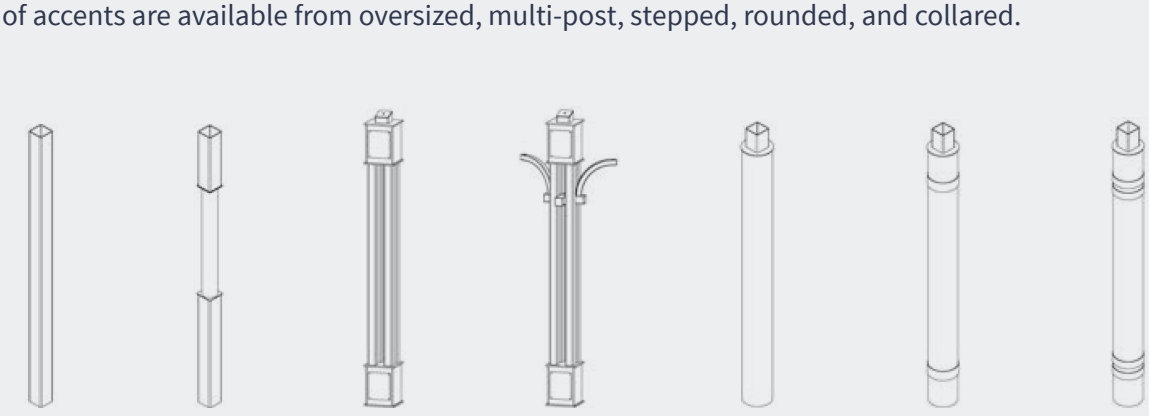
Cedar-PVC louvered cupolas are available for models with a wood roof deck. All cupolas are appropriately sized per the building dimensions.



C-SQ-CDR | C-HEX-CDR

Columns

Steel column upgrades are available to add a decorative look to the shelter. Multiple combinations of accents are available from oversized, multi-post, stepped, rounded, and collared.



C1 | C2 | C3 | C4 | C5 | C6 | C7



OCTAGON W/PICKET ORNAMENTATION, RAILS & CUPOLA (LW-OCT)



SQUARE W/ 2ND TIER (LW-SQ-2T)

OCTAGON W/ PICKET ORNAMENTATION, RAILS & CUPOLA (LW-OCT)



TWO-TIERED OPEN KNEE ARCH OCTAGON (LW-OKA-OCT-2T)

TWO-TIERED ELONGATED HEXAGON (LW-EH-2T)



OCTAGON W/ 2ND TIER, PICKET RAILS & CUPOLA (LW-OCT-2T)

Gallery



GABLE (LW-G)



GABLE (LW-G)

HALF-HEXAGON ARCH BAND SHELL (LW-BS-A-HEX)





HIP (LW-H)

INVERTED GABLE (LW-IG)





TRUSS QUAD GABLE (LW-T-QG)



TWO-POST GABLE WITH BENCH (LW-G-2P-B)



GABLE (LW-G)



WAVE (LW-W)



GABLE (LW-G)



WAVE BAND SHELL WITH QUAD COLUMNS (LW-BS-W-QC)



GABLE (LW-G)



GABLE (LW-G)



GABLE (LW-G)

OCTAGON W/ 2ND TIER (LW-OCT-2T)



GABLE (LW-G)



TRUSS BOSTON HIP (LW-T-BH)



SINGLE SLOPE (LW-SS)



OCTAGON WITH PICKET ORNAMENTATION (LW-OCT)



ENCLOSED GABLE (LW-ENC-G)



TRUSS GABLE (LW-T-G)



RCP Shelters, Inc.

info@rcpshelters.com | 800-525-0207
rcpshelters.com

