

EnWood
STRUCTURES

Manufacturer of **Engineered Wood** products



*LAMINATED
Wood Shelters*

800.777.8648



Distributed by: Efficient Amenities



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AMENITIES**

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THE ENWOOD STRUCTURES TRADITION

EnWood Structures' history extends to over 60 years of design and manufacturing superior quality laminated wood products. EnWood's continued commitment to precision manufacturing has earned EnWood a solid and distinguished reputation in the laminated wood market.

Because each project has special and unique needs, EnWood offers the option of selecting from the EnWood Design Collection, customizing the EnWood Designs Collection with a variety of options, or developing a unique Custom Design for a special project.

Over the years EnWood has received industry wide recognition for design innovation and precision manufacturing, including the prestigious *Merit Award from the National Timber Bridge Association*.

RECREATIONAL SHELTERS, PAVILIONS, ARENAS, STAGE COVERS, AMPHITHEATERS

The EnWood Design Collection includes a wide selection of pre-engineered, pre-fabricated shelter packages. The shelter packages can be customized with a selection of options which include powder coated steel columns, metal roofs, staining, rails, benches, and much more. Shelters packages are shipped complete, including all hardware required for proper installation.

EnWood's Custom Design division is an industry leader for custom shelter and riding arena designs. EnWood's ability to work closely with designers, engineers, and architects has earned EnWood Structures an outstanding reputation. Understanding the client's unique specifications and individual needs, and delivering a product surpassing expectations, is the benchmark for EnWood Structures.

PEDESTRIAN, LIGHT VEHICULAR and GOLF BRIDGES

EnWood is well known in the bridge industry for its ability to design and engineer exceptional quality clear-span laminated wood bridges. Standard girder style bridges can clear-span 100', while arch suspension bridges can exceed a clear span of over 200'. For projects requiring greater lengths, EnWood will design and engineer the bridge in specified segments, thus, the total length of the bridge is unlimited.

HIGHWAY BRIDGES

An EnWood highway bridge, engineered for full vehicular traffic, blends softly with nature. Built for beauty and utility, EnWood's highway bridges are the perfect companions for park and greenway settings as well as for golf and residential communities where aesthetics are of importance. EnWood's ability to work closely with regulating authorities gives the customer the assurance of a successful project.

The team at EnWood Structures looks forward to working with you, and to assure you the service and support you expect for a successful project. Like you, we put our reputation on the line each day. And, also like you, our reputation is our most valued asset.

EnWood Structures production is an associate member of The American Institute of Timber Construction, AITC, who has the highest manufacturing standards of the industry. Manufacturing and quality control conform to the Standard Specifications for Glued Laminated Timber.



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The Raleigh & The Raleigh II



The Raleigh and Raleigh II shelters are distinguished by their appealing laminated wood curved beams and interior tongue and groove wood decking. The Raleigh has laminated wood columns spaced 8' on center, while the Raleigh II has laminated columns spaced 10' on center. The Raleigh II utilizes EnWood Structures' MultiSpan Deck System to increase spacing of structural laminated members. Both shelters combine versatility with economy.

The Raleigh Sizes Available

| | | | |
|-----------|-----------|-----------|-----------|
| 12' x 12' | 16' x 16' | 20' x 20' | 24' x 20' |
| 12' x 16' | 16' x 20' | 20' x 28' | 24' x 28' |
| 12' x 20' | 16' x 28' | 20' x 36' | 24' x 36' |
| 12' x 28' | 16' x 36' | 20' x 44' | 24' x 44' |
| 12' x 36' | 16' x 44' | 20' x 52' | 24' x 52' |
| 12' x 44' | 16' x 52' | 20' x 60' | 24' x 60' |

| | | | |
|------------|------------|------------|------------|
| 30' x 36' | 40' x 44' | 50' x 52' | 60' x 60' |
| 30' x 44' | 40' x 52' | 50' x 60' | 60' x 68' |
| 30' x 52' | 40' x 60' | 50' x 68' | 60' x 76' |
| 30' x 60' | 40' x 68' | 50' x 76' | 60' x 84' |
| 30' x 68' | 40' x 76' | 50' x 84' | 60' x 92' |
| 30' x 76' | 40' x 84' | 50' x 92' | 60' x 100' |
| 30' x 84' | 40' x 92' | 50' x 100' | 60' x 108' |
| 30' x 92' | 40' x 100' | 50' x 108' | 60' x 116' |
| 30' x 100' | 40' x 108' | 50' x 116' | 60' x 124' |

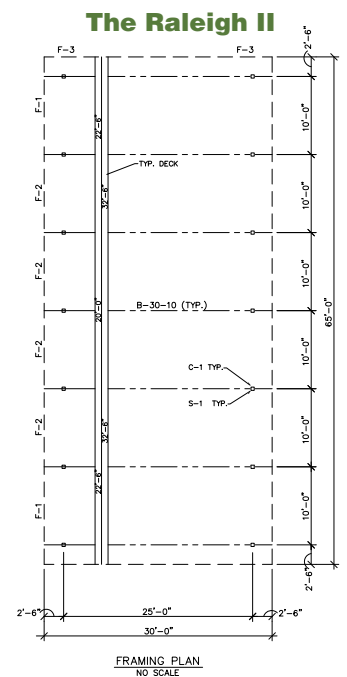
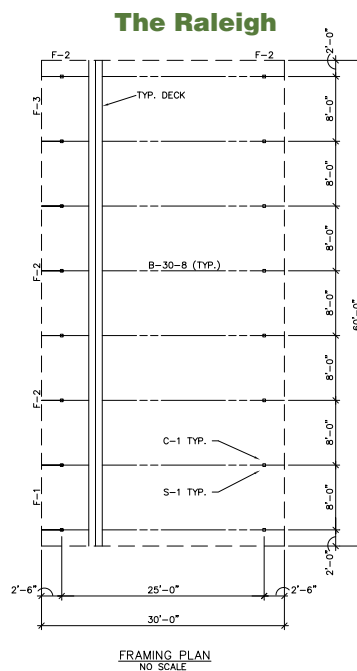
Custom Sizes Available

The Raleigh II Sizes Available

| | | | | |
|-----------|-----------|-----------|------------|------------|
| 16' x 24' | 20' x 24' | 30' x 35' | 40' x 45' | 50' x 55' |
| 16' x 35' | 20' x 35' | 30' x 45' | 40' x 55' | 50' x 65' |
| 16' x 45' | 20' x 45' | 30' x 55' | 40' x 65' | 50' x 75' |
| 16' x 55' | 20' x 55' | 30' x 65' | 40' x 75' | 50' x 85' |
| 16' x 65' | 20' x 65' | 30' x 75' | 40' x 85' | 50' x 95' |
| | | | 40' x 95' | 50' x 105' |
| | | | 40' x 105' | 50' x 115' |

Custom Sizes Available

* Requires 3" T & G Decking



Modified Raleigh and Raleigh II shelters



This Raleigh II shelter measures 50'x95'. Customer selected the optional 5:12 roof pitch and added the EZ-Loc Standing Seam metal roof for color impact.



Custom sized at 26'x100', this Raleigh utilizes side header beams to accommodate additional spacing between the steel tube columns. Installation contractor added the decorative stone features for both visual and practical applications.



Both the Raleigh and Raleigh II shelters, whether large or small are easily adaptable to facilitate enclosures for restrooms, concession space, storage, and administrative offices. Enclosure materials are furnished by your contractor.



Hickory, North Carolina is home to this 50'x105' Raleigh II structure. Their insight for visual impact combined with functional enclosed space in their soccer park area is highly complemented by all who frequent this park.



The visual impact of this Raleigh shelter is characterized by its dramatic 6:12 roof pitch. Normal roof pitch for the Raleigh and Raleigh II is 3:12, however EnWood offers the customer the optional 4:12, 5:12, or 6:12 roof pitch.



All sizes of the Raleigh and Raleigh II shelters are offered with EnWood's optional Bar-B-Q roof design. This design has been engineered to facilitate updraft for ventilation.



The Raleigh Hip



The Springwood



The Guilford



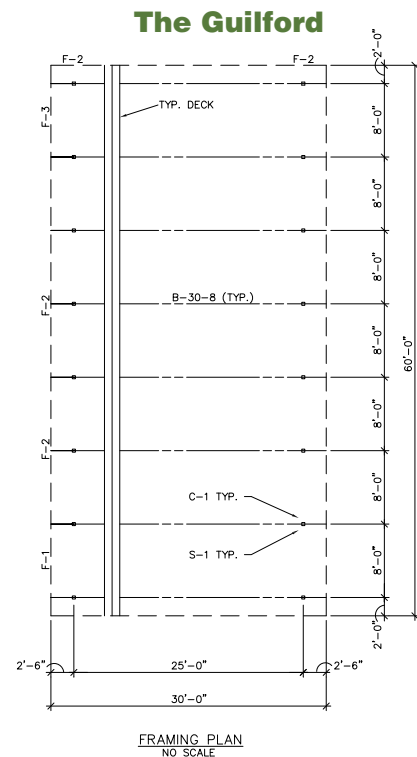
The Guilford is our newest and most unique combination of advanced design in curved beam technology with an award winning aesthetic quality that adds a sculptural element to your outdoor environment. The Guilford gives you custom design features such as higher interior elevation with the advantage of a pre-designed and engineered shelter. The Guilford can also be modified to your specific requirements including snack bar, rest room facilities and full enclosure".

The Guilford Sizes Available

24' x 20'
24' x 28'
24' x 36'
24' x 44'
24' x 52'
24' x 60'

| | | | |
|------------|------------|------------|------------|
| 30' x 36' | 40' x 44' | 50' x 52' | 60' x 60' |
| 30' x 44' | 40' x 52' | 50' x 60' | 60' x 68' |
| 30' x 52' | 40' x 60' | 50' x 68' | 60' x 76' |
| 30' x 60' | 40' x 68' | 50' x 76' | 60' x 84' |
| 30' x 68' | 40' x 76' | 50' x 84' | 60' x 92' |
| 30' x 76' | 40' x 84' | 50' x 92' | 60' x 100' |
| 30' x 84' | 40' x 92' | 50' x 100' | 60' x 108' |
| 30' x 92' | 40' x 100' | 50' x 108' | 60' x 116' |
| 30' x 100' | 40' x 108' | 50' x 116' | 60' x 124' |

Custom Sizes Available



The Caroline

The Caroline shelter design, with its laminated curved roof beams and hexagon shape, blends beautifully into any setting. The smaller Caroline is ideal for private residences, developments, and golf courses; while the larger Caroline lends a spectacular visual appeal where more shelter space is required.

Available options include:

- rails
- wood deck floor
- benches
- cedar shake shingles
- cupola

The Caroline Sizes Available

| | |
|-----|-----|
| 14' | 30' |
| 16' | 35' |
| 20' | 40' |
| 25' | 45' |

Custom Sizes Available



The Seaside



The Seaside shelter as shown here in our artist's rendering is the newest addition to the EnWood Design Collection. Like the Columbia, the Seaside also features a 6:12 roof pitch and the extended column height of 10'. The split roof design lends high visual appeal while serving as a functional element for circulation. Popular options for the Seaside include custom handcrafted benches and rails.



The Columbia



The Magnolia



The Louisville



The Timberland



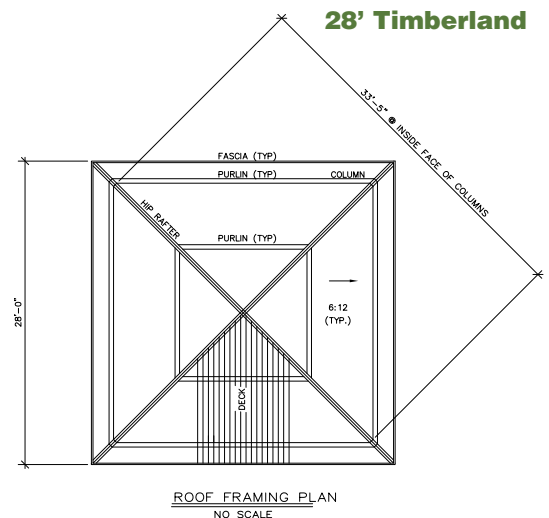
The simplicity of the Timberland shelter design makes it economical as well as attractive. With its broad open sides, and no need for a center support post, the Timberland easily facilitates multi-function gatherings, and blends harmoniously into any area.

Like the Magnolia, The Timberland is often sold in clusters with several large and small shelters placed in close proximity for facilitating both large and small groups in the same recreational area.

The Timberland Sizes Available

| | | |
|-----|-----|-----|
| 12' | 20' | 28' |
| 15' | 24' | 36' |

Custom Sizes Available



EnWood Structures' Design Collection Shelters combine the beauty of laminated wood with the economy of a pre-fabricated engineered package. EnWood's shelters are durable and economical and require very little maintenance. These pre-fabricated shelter packages are shipped to the jobsite ready for fast, easy installation. Packages include engineered shop drawings, roofing materials, and all connecting hardware and nails required for proper installation.

Numerous options, as listed on page 13, are also offered for the standard Design Collection shelter packages. These options include metal roofs, powder coated steel columns, benches, rails, cupolas, and more. The Salesteam at EnWood is always available to assist with customer questions and requests.

*Built for beauty
... designed for
durability &
economy*

New *Shelter Line* for 2017



The newest and most advanced shelter designed for golf courses, carports and park shelters. Custom tailored to your style and specifications.

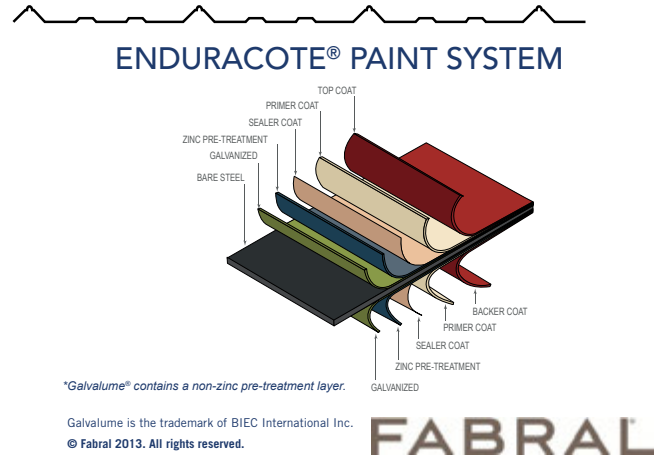


Metal Roofs (Please refer to www.Enwood.com for most recent colors and styles)

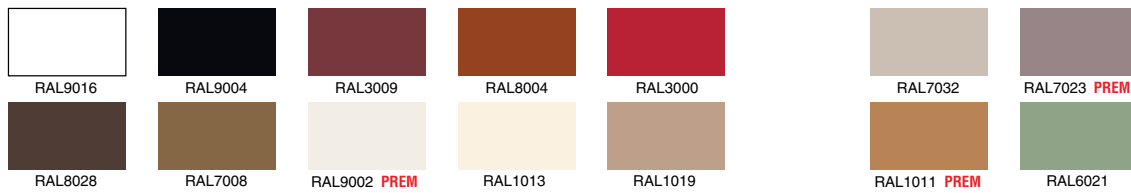
24 gauge SSR has a standing seam rib of 1 3/4" high, and the premium Kynar 500 finish.



29 gauge Grand Rib has a 3/4" high rib and the Valspar Siliconized Polyester finish.



Powder Coating Color Chart



PREM denotes, PREMIUM COLOR
Powder coating colors may not match metal roof colors
Colors are represented as closely as the printing process allows.

Cupolas



S-400 Cupola is square in shape and fits most shelter roof lines.



H-600 Cupola is hexagon in shape and fits most shelter roof lines.



O-800 Cupola is octagon in shape and is designed for the Columbia and Seaside shelter models which are also octagon in shape

All cupolas are hand crafted in quality cedar lumber. The louvers are screened on the inside, and shipped with mounting brackets.

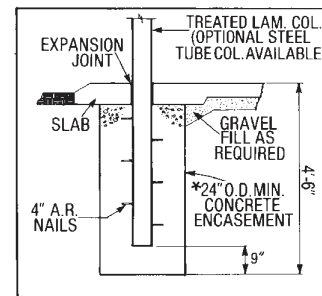
Cupolas are offered with either shingles, aluminum roof, or the distinctive look of a copper roof.

Each model is available in two sizes: 24"x28" tall or 35"x35" tall

Shelter Option Chart

| PAGE | | METAL ROOF | STEEL COLUMNS | BENCHES | RAILS | FLOOR | CUPOLAS | STAINING |
|------|---------------|------------|---------------|---------|-------|-------|---------|----------|
| 3,4 | Raleigh | X | X | | X | | X | X |
| 3,4 | Raleigh II | X | X | | X | | X | X |
| 5 | Springwood | X | X | | | | | X |
| 6 | Caroline | | X | X | X | X | X | X |
| 7 | Guilford | | X | | X | | X | X |
| 8 | Columbia | X | X | X | X | | X | X |
| 8 | Seaside | X | X | X | X | | X | X |
| 9 | Magnolia | X | X | X | X | X | X | X |
| 10 | Louisville | X | | | | | X | X |
| 11 | Timberland | X | X | | | | X | X |
| 14 | Dobson | X | X | | | | | X |
| 14 | Pinehurst | X | X | | | | | X |
| 15 | Charleston | | X | | | | | X |
| 15 | Brandywine | X | | | | | | X |
| 16 | Apex Series | X | | | | | | X |
| 17 | Camden Series | X | | | | | | X |
| 18 | Mills | | X | | | | | X |
| 18 | Wilmington | X | | | | | X | X |

Suggested Column Embedment



*30" O.D. Concrete for some larger sizes.





Wall not included

The Dobson

The Dobson shelter's design is simple and clean. The design utilized for this structure is multifunctional, and easily re-sized for bleacher covers, driving range covers, bus stop stations. As well, it is adaptable for partial enclosures, as pictured here with a back wall supplied by the contractor.

The Dobson Sizes Available

8' x 20' 8' x 24' 8' x 34'

Custom Sizes Available



The Pinehurst

The Pinehurst Mini-Picnic shelter is designed specifically for a small group's picnic and recreational needs and is ideal for remote park areas, trails, playground, and camping sites. The Pinehurst shelter utilizes solid sawn cedar for the table and benches, and #1 grade Southern Yellow Pine for all other components.

The Pinehurst Sizes Available

8' x 8' 10' x 10'

Custom Sizes Available

The structural design of the Pinehurst can be modified to a sign and bulletin shelter for park entrances and recreational areas. Please inquire with our Salesteam for more specifics.



The Charleston

The Charleston is one of the most attractive band shelters in the industry. The soft and graceful roof design utilizes laminated beams and purlins of Southern Yellow Pine. The Charleston is strong on aesthetics as well as on acoustics. The Charleston is spacious and has immense versatility. The size of the Charleston will determine column engineering; either laminated wood or steel.



The Brandywine



The Brandywine has intrigue with a unique and spacious arch design. As a newer addition to the EnWood Structures' Entertainment Design Series, the Brandywine can be sized for your specific project requirements. Call for details.



The Apex Series



The Apex II



The Apex with Changing Rooms



The Apex with Front Bay

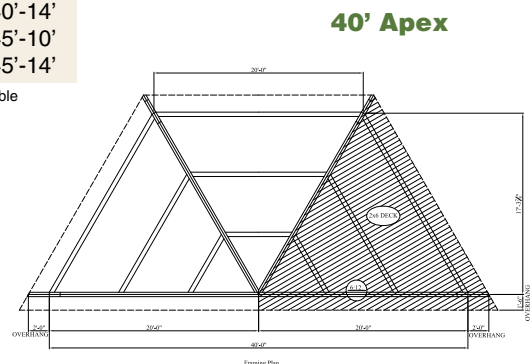
The Apex Amphitheater Design Series utilizes laminated arches and purlins of Southern Yellow Pine. The amphitheater design is strong on aesthetics as well as on acoustics as the natural acoustical property of wood allows for quality sound.

The Apex is engineered with side walls. The Apex II is engineered without side walls. Both are offered with arch leg heights of either 10' or 14' and facilitate up to 3 front bays for additional coverage. Call the Salesteam at EnWood for additional details.

The Apex & Apex II Sizes Available

| | |
|---------|---------|
| 30'-10' | 40'-10' |
| 30'-14' | 40'-14' |
| 35'-10' | 45'-10' |
| 35'-14' | 45'-14' |

Custom Sizes Available



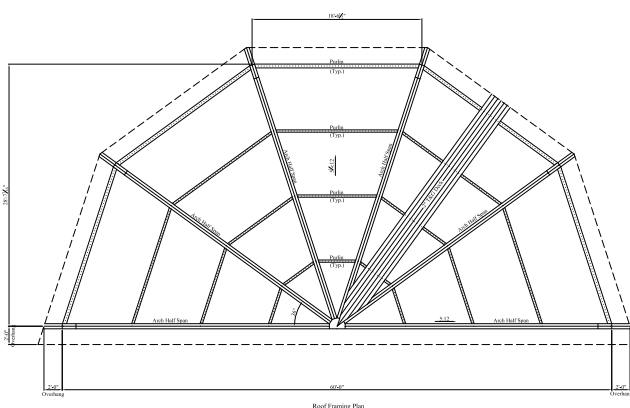
The Camden Series



The Camden Design Series was added to our shelter collection specifically for projects requiring additional covered space. Like the Apex, it utilizes laminated arches and purlins of Southern Yellow Pine, however it features a five segmented design for the added space, allowing sizing to 65'.

The Camden is engineered with side walls. The Camden II is engineered without side walls, as featured by our artist rendering. And both are engineered to facilitate up to 3 front bays for additional coverage. Call the Salesteam at EnWood for details.

60' Camden



The Camden Sizes Available

| | |
|-----|-----|
| 50' | 60' |
| 55' | 65' |

Custom Sizes Available



The Mills



The Wilmington



Custom Designs



Custom Designs

The Custom Design Shelter Division at EnWood Structures has the expertise and capacity to develop unique and challenging projects. Equestrian and riding arenas, orchestra and stage covers, wedding pavilions and community recreation centers are just a few. The staff at EnWood is highly experienced and can assist you with every stage of your project.



*Design
Engineering
Manufacturing*



Custom Designs





Manufacturer of **Engineered Wood** products

Structure Division



EnWood Structures

www.enwood.com

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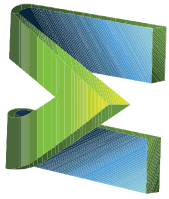


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Vehicular Bridges



EnWood Structures vehicular bridges offer a viable alternative to steel and concrete structures because of ease of installation due to prefabrication, minimal maintenance, extended service life, and aesthetic quality. Standard design configurations for HS20 loading with spans ranging from 16' to 80' are available for single and multi-lane bridges.

Larger spans are possible with truss or deck arch bridge designs. Designs are in accordance with AASHTO specifications.





Vehicular Bridges

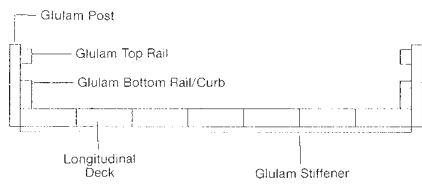
Scope

All structural glued-laminated timbers shall be furnished as shown detailed on plans and specified herein. Complete shop drawings shall be furnished by the fabricator and shall be approved prior to fabrication.

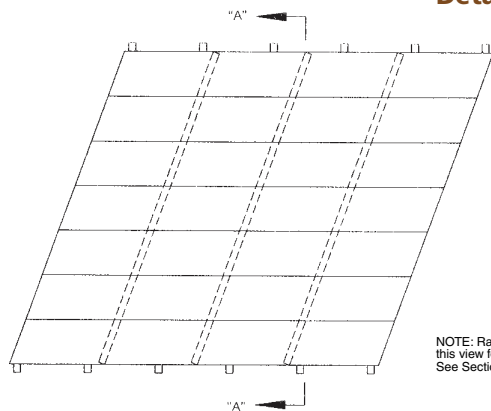
Design

Design loads shall conform to standard highway design procedures for state, governmental land, or territories that govern. "Standard Specifications for Highway Bridges" adopted by AASHTO, latest edition, shall be used as the design reference source when specified.

Longitudinal Systems



**Bridge Section
&
Plan
Details**



NOTE: Rails not shown this view for clarity. See Section "A - A".

Longitudinal Deck

Longitudinal glulam deck designs offer low profile structures which are typically used for short spans ranging from 16' to 36' where clearance below bridge deck is limited. Designs consist of deck panels spanning from abutment to abutment. Glulam stiffener beams are used to tie the panels together and to distribute wheel loads. Panel thickness varies from 6.75" to 18.25" depending on span and load conditions. Panel lengths up to 80' are available for multi-span decks.

Quality Assurance

Material standards to comply with "Structural Glued Laminated Timber" ANSI/AITC A190.1 - latest edition. Manufacturer to provide factory-glued timber units, produced by an AITC licensed firm, qualified to issue the AITC "Quality Inspected" mark.

Materials

Laminating lumber shall comply with ANSI/AITC A190.1 and applicable lumber association standards cited therein for grades required to achieve glued laminated timber requirements for allowable stress, appearance, fabrication limitations and species. Manufacturing adhesives shall be wet-use (waterproof) complying with ANSI/AITC A190.01.

Laminated materials to be AITC industrial appearance grade. Steel and hardware shall be furnished by fabricator as specified herein and shown on drawings. Fabricated steel shapes and hardware shall conform to ASTM-A36 and ASTM-A307, respectively, unless otherwise specified. All steel and hardware to be hot-dipped galvanized.

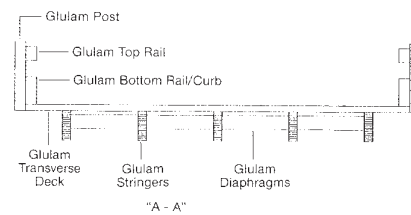
Preservative Treatment

Preservative treatment of materials shall be in accordance with AITC 109 - latest edition and AWP standards C1, C2, C14, and C28 - latest edition.

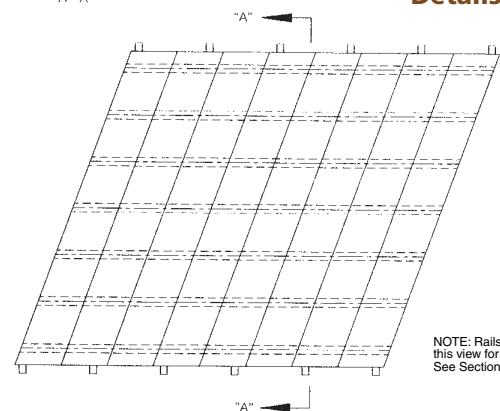
Handling, Storage & Installation

Shall be in accordance with manufacturer's recommendations as well as AITC and AASHTO standards.

Transverse Systems



**Bridge Section
&
Plan
Details**



NOTE: Rails not shown this view for clarity. See Section "A - A".

Stringer & Transverse Deck

This system utilizes a series of transverse glulam deck panels or solid sawn timbers supported by straight or slightly curved stringers. Glulam or steel diaphragms are used for transverse bracing. This system is most economical for clear spans ranging from 20' to 80'.



Covered Bridges



EnWood Structures' covered bridges offer visual impact and practical solutions to numerous venues. The covered roof system can be either a full coverage or a partial coverage, and are ideal for golf courses, greenways, community areas, and residential developments.

Both the Woodland and the Fairway bridge models can accommodate a full or partial roof system. Roof system designs utilize laminated wood posts and beams, and tongue and groove roof decking.

For additional specifications and pricing, call the Salesteam at EnWood Structures 800.777.8648.



Arch Suspension Bridges

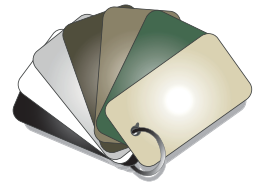
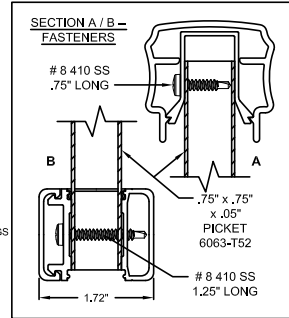
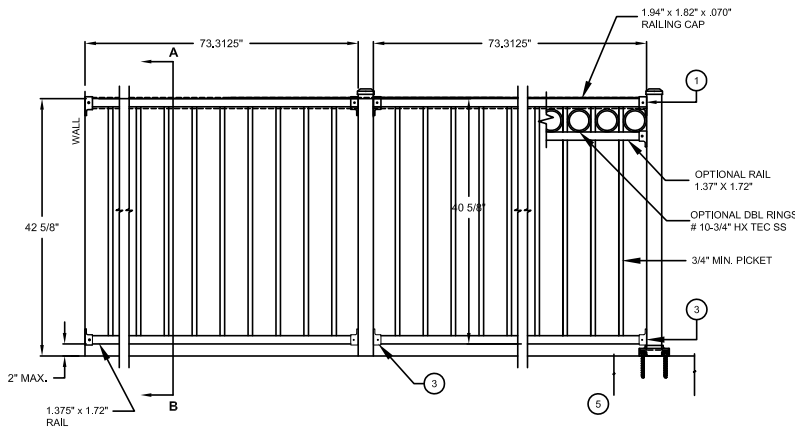


EnWood Structures is an associate member of The American Institute of Timber Construction, AITC, who has the highest manufacturing standards of the industry. Manufacturing and quality control conform to the Standard Specifications for Glued Laminated Timber.

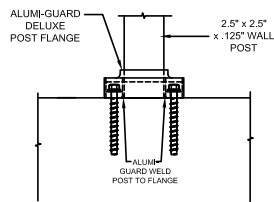
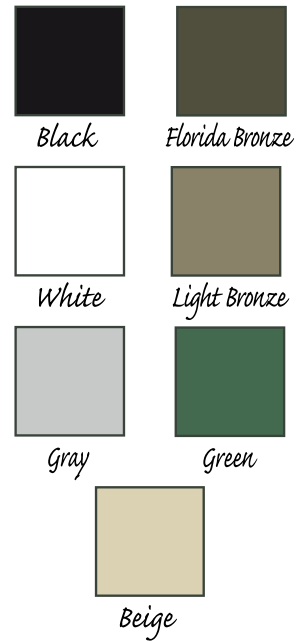
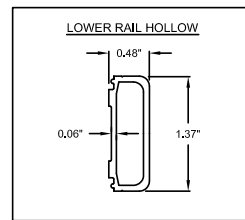
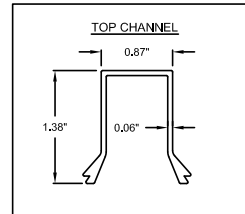
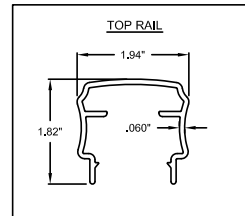


Optional Aluminum Guard Rail

Standard Specifications

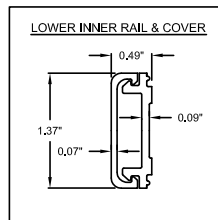
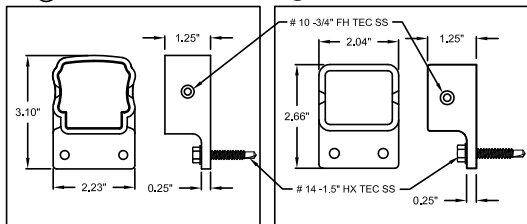


RAILING EXTRUSIONS 6005-T5



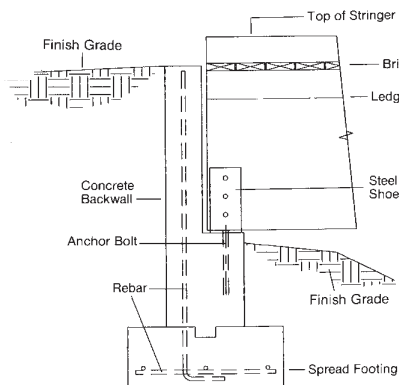
1 RAILING WALL BRACKET

3 END LOWER RAIL BRACKET

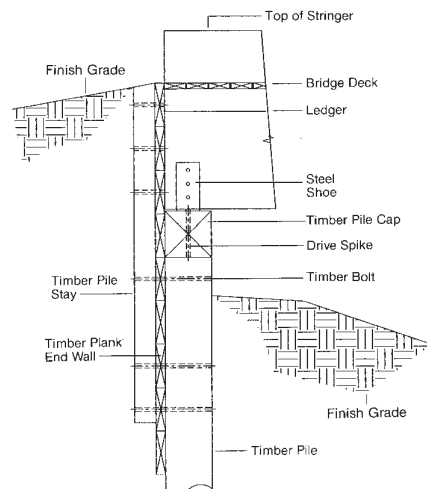


Typical Footing Details

Typical Concrete Abutment



Typical Timber Pile End Wall



Pedestrian & Light Vehicular Bridges



Production & Shipping



The benchmark for the manufacturing of an EnWood Structures bridge is quality. EnWood uses kiln dried, #1 grade Southern Yellow Pine. Lumber is pressure treated prior to lamination to give extended protection to all laminated bridge components. Interior stringers and diaphragms are also laminated components for additional strength and stability. All steel and hardware is hot-dipped galvanized. As well, steel is fabricated by EnWood's on-site steel shop to assure proper fit.

The shipping department at EnWood Structures has years of expertise with

coordinating the transportation of oversized bridges and extended length bridge components. Expediting permits and escorts for oversized shipments is just part of the quality customer service the EnWood customer relies upon.



Custom Modifications



EnWood Structures' standard designs are frequently altered to enhance the bridge appearance without creating a custom engineered structure. Variations in rail details as illustrated by the adjacent photographs add flexibility to these designs.



For golf course applications, low profile structures are usually preferred. Modifications to the Fairway design such as removing the rail system and utilizing a 6" to 8" curb or by using a single top rail at approximately 24" above the deck, can create a streamline design.



In addition to rail modifications, standard configurations have been altered to accommodate covered roofs, multiple span systems, cantilevered bridge sections, and side extensions for pedestrian seating.



Park & Greenway Bridges



deflection or with a higher degree of curvature to accent the curved glulam appearance. High profile bridges are fabricated with a camber of approximately 2.1% of the total span. This produces a localized deck slope of 1 to 12 or 8.3% which is the maximum allowed for handicap access. See page 9 for specific bridge camber. Non-standard cambers per client specifications are available at no additional cost.



EnWood Structures' standard pedestrian bridges are designed for a live load of 85 PSF and a live load deflection limited to $L/300$ of the total span. Alternate live loads of 60 PSF and 100 PSF are used per client specifications and are justified by the interpretation of the various building codes of pedestrian applications. Light vehicular loads are also possible with standard design configurations by altering interior framing member sizes as well as deck thickness. Typical light vehicular loads range from 2,000 lbs. to 12,000 lbs. EnWood Structures' client will be responsible for specifying the maximum vehicular load requirement used for design.



Laminated Wood



EnWood Structures' pedestrian and light vehicular bridges are typically found in parks, golf courses, and greenway trails. Glulam bridges are used for these applications primarily due to their architectural design, low maintenance, and long term cost.

EnWood Structures offers three standard prefabricated designs which are known as the Woodland, Fairway, and Park models. Standard configurations are available in 4', 6', 8' and 10' widths with spans ranging from 20' to 100'. Standard designs are generally limited to a span-to-width ratio of 12:1; however, ratios as high as 15:1 are possible. Bridges up to 10' wide and 65' in length can be shipped assembled if roadway and jobsite access allows.

Standard girder type bridges can be manufactured with a minimum curvature or camber to offset long term dead load



Golf Bridges



Utilizing wood as a structural material has numerous advantages. For example, the sound and thermal insulation properties of wood produce lower traffic noise and reduce the problem of “bridge freezing before road.” Timber bridges have excellent impact load characteristics and are surprisingly fire resistant. Another distinct advantage for using wood in vehicular bridges is its high resistance to deicing chemicals which cause deterioration to both steel and concrete bridges.

Design Capabilities

Standard designs have been developed for both vehicular and pedestrian bridges utilizing CADD (Computer Aided Drafting and Design) capabilities. These designs have been developed by registered professional engineers who also are equipped to handle custom designs.



| Typical Glulam Design Configurations | |
|--------------------------------------|--------------------------------|
| <i>Pedestrian/Light Vehicular</i> | <i>Highway / Vehicular</i> |
| • Girder Type | • Stringer and Transverse Deck |
| • Bowstring Truss | • Longitudinal Deck |
| • Parallel Chord Truss | • Bowstring Truss |
| • Hinged Arch | • Parallel Chord Truss |

EnWood Structures is an associate member of The American Institute of Timber Construction, AITC, who has the highest manufacturing standards of the industry. Manufacturing and quality control conform to the Standard Specifications for Glued Laminated Timber.



Laminated Wood



For over sixty years EnWood Structures has been designing and manufacturing vehicular and pedestrian bridges utilizing pressure treated glulam. Designs range from standard pedestrian bridge configurations to custom vehicular bridges per AASHTO specifications. EnWood Structures bridge systems are ideal for use in parks, golf courses, planned developments, as well as state and county road systems. These structures combine the inherent beauty of glulam with the advantages of modern pressure treated technology to increase wood's versatility and service life.

Advantages of EnWood Structures' Bridges

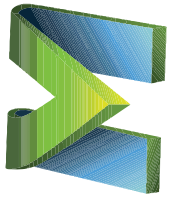
In addition to the aesthetic value of an EnWood Structures

bridge, there are numerous other advantages to consider. EnWood Structures' bridge packages are prefabricated prior

*Built for
beauty
engineered
for utility*

to shipping in order to expedite on-site construction and reduce labor cost. Pedestrian and light vehicular bridges are frequently shipped fully or partially assembled if roadway and jobsite access allows, thus utilizing smaller installation crews to further reduce costs.





EnWood
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LAMINATED Wood Bridges

*Bridge Details on Page 8
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