



RigidPly Rafters Inc.
www.rigidply.com

LAMINATED ARCHES



43'-6" Span • 10'-3" Eave • 8:12 Pitch • Mt. Savage, MD

Rigidply's laminated wood arches support long, clear, majestic spans with the natural beauty of wood. Innovative designs are possible with unparalleled aesthetics. Laminated wood arches are gaining popularity in religious structures, recreational facilities, indoor swimming pools, residential rooms, auditoriums, equine riding facilities, hospitals, and educational facilities. Laminated wood arches provide unique architectural features while permitting all of the inside area to be finished and usable. Sometimes they are used solely to add architectural appeal to an entrance way.



72'-0" Span • 16'-6" Eave • 6.75" Width • Staunton, VA

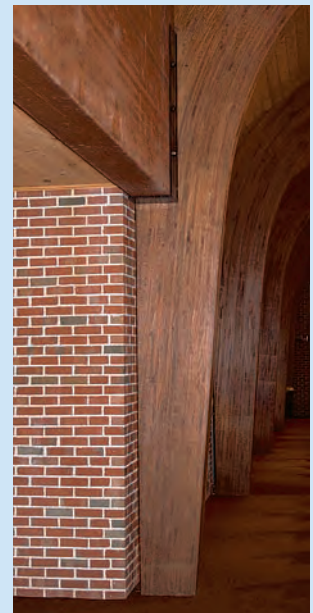


73'-9" Span • 20'-4" Eave • 4.5:12 Pitch • Eight-sided building • Livonia, NY



16'-8" Half Span • 13'-10" Eave • 6.85:12 Pitch
8" Width • Bradford, NY ▶

60'-2" Span • 13'-2" Eave • 9:12 Pitch • 6.75" Width • Lititz, PA



LAMINATED BEAMS



57'-0" Square Roof • 10'-0" Eave • 4:12 Pitch • Biglerville, PA

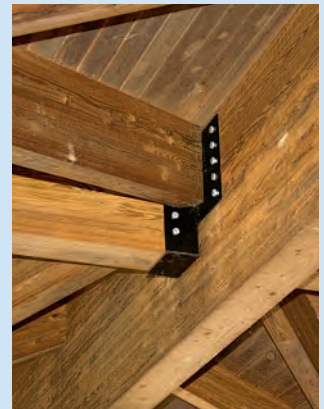
Rigidply produces custom individual laminated wood timbers in many shapes and sizes. In addition to traditional laminated wood beams and columns, an infinite number of curved shapes can be achieved with Rigidply's engineering and manufacturing capabilities.

Often used in the past for aesthetic purposes to incorporate the style and beauty of wood into a project, glulam timbers can also serve as structural members. The variety of applications using glulam timbers has increased dramatically in recent years. Once considered a specialty item for use in highly custom projects, engineering and manufacturing efficiencies have reduced product lead times and made glulam timbers more economical than ever before.



13'-4" Square Clearstory Roof • 4:12 Pitch





Exeter, PA

TIMBER TRUSSES



24'-0" Span • 12:12 Pitch • 6.75" Width • Middleburg, VA



Rigidply can help turn your vision into reality. Heavy glulam timber trusses are used in some of the most dramatic architectural projects in modern construction. The designs are endless. Trusses can combine straight and curved laminated timbers. They can also be engineered to join with other structural components.



20'-8" Span • 12:12 Pitch • Chestertown, MD



18'-11" Span • 17'-1" Radius at ceiling
6.75" Width • Bethlehem, PA



40'-0" Span • 7:12 Pitch • 6.75" Width • Union, NJ



Laminated wood timbers are no longer just an accessory product used to improve the appeal of an entrance, portico or other specialty area of the structure. Heavy timber trusses are now used as the primary structural component of buildings needing the heavy timber interior style. The stability and strength of laminated wood timbers offers improved appearance and span capabilities, and minimizes the potential for cracking, checking and other issues common with trusses constructed of solid timbers. Connections can be exposed or hidden. Other building materials such as steel rods and sections can be combined with laminated wood timber components to provide a "just-for-you" appearance.



Macungie, PA

BRIDGES



8' x 58' • Pedestrian Bridge • Livonia, NY

The impressive architecture and strength of Rigidply's wood timber bridges is a refreshing take on bridge construction. Often more economical than concrete or steel, glued laminated wood bridge construction affords a wide variety of styling. Southern Yellow Pine and Red Maple are currently the two most common wood species used. Alaskan Yellow Cedar is becoming popular for bridge decking, curb, and rail systems. Preservative treated glulam structural wood timbers offer a life expectancy greater than that of steel or concrete! Traditional CCA and Pentachlorophenol (Penta) treatments as well as specialty treatments such as creosote remain popular options.



4' x 33'-4" with 24" Camber • Pedestrian Bridge • Dillsburg, PA



45'-0" Span • 6'-0" Clear Width • Golf Cart Bridge • Abbottstown, PA



PAVILIONS



30' x 60' • Reading, PA



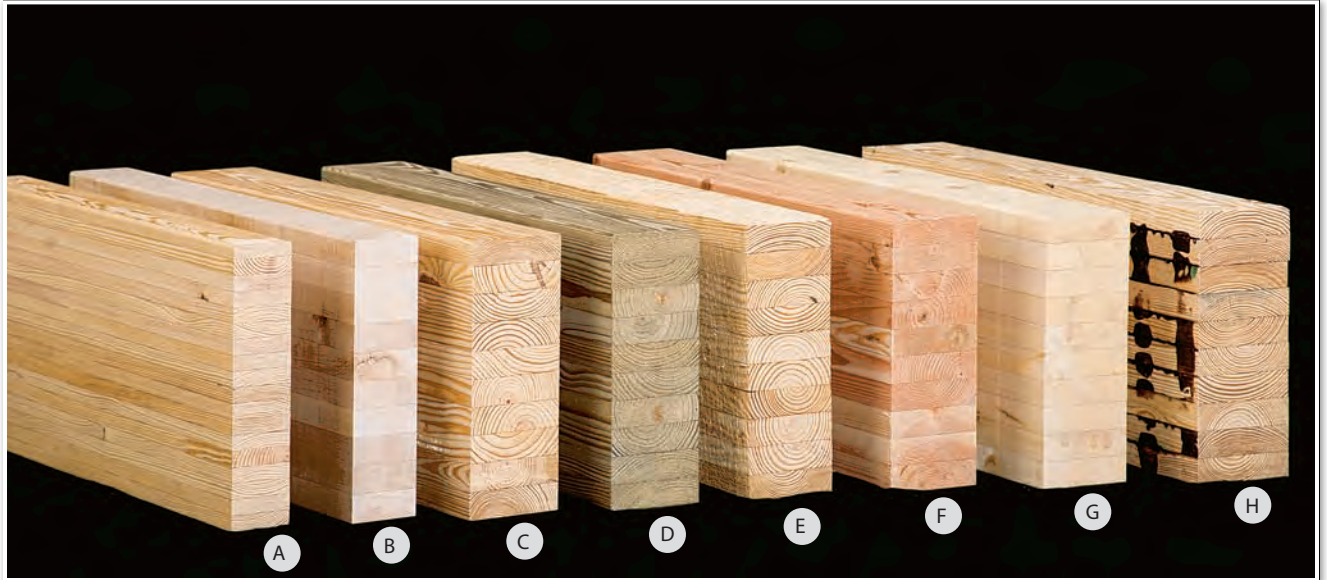
40' x 52' • Harleysville, PA



Rigidply's pre-engineered pavilion packages are one of the most popular building packages available for public gathering shelters. They are delivered complete with everything needed for construction from the foundation up. Taking advantage of the beauty of wood, and the strength and economy of laminated wood timbers, Rigidply offers standard pavilions and custom design to satisfy your architectural and structural specifications.

Rigidply's pavilion packages are easy to construct in a short time. This minimizes the disturbance of other activities around the building site. Installation drawings are provided and can be sealed by a registered professional engineer if needed.

Wood: Southern Yellow Pine remains the most structurally efficient wood species for glued laminated wood timber manufacturing. Douglas Fir-Larch also provides popular appearance characteristics and very good economy. Both materials are stocked in a variety of sizes and grades. Rigidply now maintains an inventory of Alaskan Yellow Cedar to meet the increasing demand. Red Maple is also available on a project by project basis.



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|----|----------------------------------|----|-----------------------------|
| A. | Yellow Pine | E. | 'Rough Cut' Yellow Pine |
| B. | Red Maple | F. | Douglas Fir |
| C. | Southern Yellow Pine | G. | Alaskan Yellow Cedar |
| D. | CCA Treated Southern Yellow Pine | H. | 'Framing Grade' Yellow Pine |

Preservative Treatments: Certain exterior and other aggressive applications can require the use of a variety of preservative treatments. Rigidply continues to offer its laminated wood timbers with the option of 0.60 pcf CCA treatment for foundations and other aggressive non-residential applications. Pentachlorophenol (Penta) treatments as well as creosote can also be used with laminated wood timbers.

Fabrication: Rigidply laminated wood timbers are manufactured at Rigidply's Richland, PA facility and can be either straight or curved. Laminated wood timbers can be drilled, cut and shaped at Rigidply to speed field installation or can be shipped untouched for field fabrication. A temporary protective wrapping is applied upon request to protect the timbers during shipping. Most wood to wood connections are fabricated and fit at the plant to ensure straight forward installation on your jobsite. Finished timbers can be shipped knocked down or pre-assembled.

Finishes: Rigidply's laminated wood timbers are usually finished at Rigidply. Rough-cut or smooth surfaces are common. Rigidply will stain or seal the timbers to your specifications.

Accessory Products: Connection hardware and fasteners are critical to the final appearance and strength of your building. Hardware and fasteners supplied by Rigidply are designed, fabricated and finished to compliment the laminated timber style while maintaining necessary structural integrity. Hardware can be primed, powder coated, galvanized, or stainless steel. Fasteners can be similarly finished as zinc plated, galvanized or stainless steel. Solid and laminated wood decking options are also available from Rigidply to provide structural support of the roof system while architecturally tying together all of the components. A variety of metal roof panel systems can be supplied to make sure the entire laminated timber system is architecturally consistent and is completed to your satisfaction.

Timber Ring – 4" Dia.



Shear Plate – 4" Dia.



Powder coated steel plate



Screws



1"x 8" T & G center V-groove



2"x 6" T & G square edge



3"x 6" Glu-lam T & G V-Groove



2"x 6" T & G V-Groove



Rigidply Rafters, Inc. is also a manufacturer of truss products and supplier of complete building packages. Certified Member.



OUR HISTORY



Above: Richland, PA Plant • Below: Oakland, MD Plant

In the summer of 1954, the Shirk family began to manufacture laminated wood rafters in their home in Myerstown, PA. Before and after school, several sets of rafters were glued and clamped together in the basement of their house. In time, the family felt that the business needed a name which was truly descriptive of the quality product they were producing. The name Rigidply Rafters was established in 1954 by Chester F. Shirk, owner and operator of this contracting company.

Today the Rigidply Rafters name continues as a testament to the superior work produced by this family owned business. Rigidply Rafters, Inc. currently employs over 150 people and operates a manufacturing plant located on 45 acres of land in Richland, PA. A second manufacturing plant is located in Oakland, MD.

