

**RenüTeq**<sup>®</sup>  
renewable technologies + building solutions

# Frame

## Technical Overview

Structural Engineered Bamboo

+

Open Web Steel Joist | Hybrid

**“The Strongest and Most Renewable Structural Material in the World”**

[www.renuteq.com](http://www.renuteq.com)



**ReNüTeq® Frame™ - Series - SEB (Structural Engineered Bamboo)**



**Open Web Steel Joists | Hybrid**

## Highest Performance



**RadLam® SEB is over twice the strength of any engineered Timber or Bamboo Product with an MOE of over 4,000 Ksi (27,579 Mpa), and is manufactured in the United States and Fabricated in the USA and Europe.**



### **RadLam® RLB (Radial Laminated Bamboo) Patented Product**

Is manufactured into Structural Components and Lam-Stock" for performance structural Glu-Lam and Joists component applications.

Learn more about:

**ReNüTeq® Frame™ - Series - RadLam® Steel Connectors + SEB (Structural Engineered Bamboo) - Open Web Steel Joists | Hybrid**





## Technology Overview:

Renewable structural material technology SEB (Structural Engineered Bamboo) products: **RadLam®** is uniquely combined with expertly designed steel hardware to create structural solutions specifically for the client and project requirements.

ReNüTeq provides kitted structures and building solutions made from the most rapidly renewable resource available. SEB (Structural Engineered Bamboo) is integrated seamlessly into commercial buildings/towers, roof structures, solar canopies, structural glazing, and Electric Vehicle Charging Structures.

## Sizing | Shape:

- Typical Joists Sizing
- Curved and Straight Joists
- Cambered & Tapered Joists
- Sizing - Limited only by Flat Bed Freight Transit
- 20'-0" to 80'-0" Length -Typical Glulam Sizing
- Roof Joists - With Composite Steel Decking
- Floor Joists - With Composite Steel Decking
- Available as Custom Truss Designs
- Welded Steel Web and Connectors/Bearing Plate

## Dimensional Components: (Top and Bottom Chord)

- 2x4, 2x6, 2x8, 2x10, 2x12 Nominal
- 3x3, 3x5, 3x6, 3x8, 3x10, 3x12 Actual



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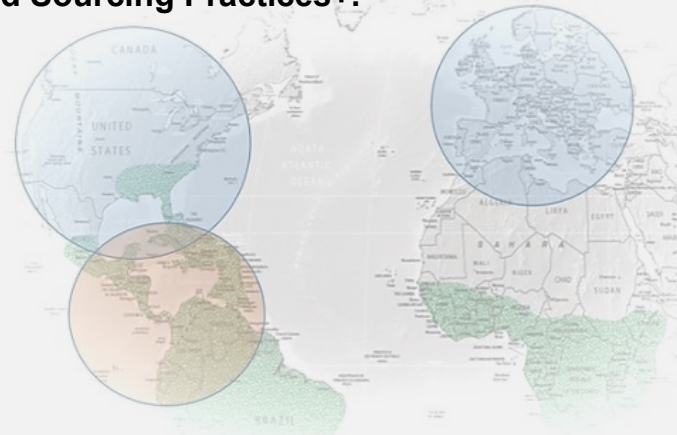
## USA Manufacturing & Operations



## Applications | Sustainability:

The applications for SEB (Structural Engineered Bamboo) products: **RadLam®** range from residential structures to multi-story towers. SEB is an ideal solution where the highest structural performance is required and ultimate aesthetics is a must. The Sustainability Case for SEB is unmatched by any other building product available.

Learn more about **+ReNüTeq Sustainability and Sourcing Practices+**.



## Structural Applications:

- GluLam Beams | Columns
- GluLam Post and Beam Systems
- SEB - Roof Structures
- Structural Glass Systems
- Roof Glass Systems
- Single and Multi-Story Structures
- Post and Beam Tower Structures

ReNüTeq Manufacturing and Operations in St. Louis, Missouri, USA

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www.renuteq.com

[info@renuteq.com](mailto:info@renuteq.com)



## Standards | Certifications | Sustainability

- Structural Product Per ASTM 5456
- Complies to ICC-ES - AC47
- Engineered Bamboo ASTM 07.02.03
- Compliant to IBC (International Building Code)
- Certified - Exterior Grade - Type 1 - Adhesives
- Architectural Grade Finishes
- Exterior Rated Structural Materials.
- Conforms to European Norms

### LEED V-4 - BREEAM Qualified

- MRc1 - Building Life Cycle Impact Reduction
- MRc3 - Building Product Disclosure - Sourcing
- EQc2- Low Emitting Materials (No added formaldehyde)



ReNüTeq has **implemented** patented technology that focuses on optimizing the highest performance fiber of the culm utilizing the highest **performance** species of bamboo in the world: **Guadua** sourced from Latin America is the largest and fastest growing, and is over **2 times stronger** than any other bamboo species making ReNüTeq's SEB (Structural Engineered Bamboo) products the strongest natural resource for the building industry.

ReNüTeq is the world's technology leader for structural engineered bamboo for structural and performance applications with operations in the USA, Europe, and South America.



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**Structural Engineered Bamboo**

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**Sustainable Building Solutions**

**ReNüTeq USA**

8000 Hall Street,

St. Louis, Missouri, 63147

USA

[info@renuteq.com](mailto:info@renuteq.com)

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