

Cross Laminated Timber Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Bonding Technology (Adhesive Bonded and Mechanically Fastened), By Application (Residential Buildings, Non-Residential Buildings, and Others), By Layer Type (3-ply, 5-ply, Others), By Structure Type (Wall, Roof & floor, Others), By Region, By Competition Forecast & Opportunities, 2018-2028F

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Abstracts

Global Cross Laminated Timber Market was valued at USD 1.15 billion in 2022 and is anticipated to project robust growth in the forecast period with a CAGR of 9.19% through 2028.

The Cross Laminated Timber (CLT) Market refers to the industry segment dedicated to the production, distribution, and utilization of CLT, a sustainable and innovative building material. CLT is engineered wood consisting of multiple layers of lumber stacked at right angles and glued together to form large, strong panels. These panels are increasingly popular in construction due to their eco-friendliness, versatility, and structural capabilities. The CLT market encompasses various stakeholders, including manufacturers, suppliers, architects, builders, and developers, all engaged in the supply chain and construction projects involving CLT. As a response to the demand for sustainable construction practices and environmentally friendly materials, the CLT market has witnessed substantial growth, with increasing adoption in residential, commercial, and industrial construction projects worldwide. It continues to evolve as research and development efforts aim to enhance its properties and expand its

applications.

Key Market Drivers

Sustainable Building Practices and Environmental Concerns

Cross Laminated Timber (CLT) has gained significant traction due to the growing global focus on sustainable construction practices. As concerns about climate change and deforestation rise, builders and architects are increasingly turning to CLT as an eco-friendly alternative to traditional building materials like concrete and steel. CLT is made from renewable wood resources and has a significantly lower carbon footprint compared to its counterparts. Its ability to sequester carbon and promote responsible forestry practices makes it an attractive choice for environmentally conscious construction projects. Moreover, many countries have implemented stringent regulations and incentives to encourage the use of sustainable materials in construction, further fuelling the demand for CLT. This driver is expected to continue shaping the CLT market as sustainability remains a paramount concern.

Cost Efficiency and Reduced Construction Time

CLT offers cost efficiency by reducing construction time and labor expenses. The prefabricated nature of CLT panels allows for faster assembly on-site, leading to lower labor costs and shorter project durations. Additionally, CLT's lightweight characteristics make transportation and installation more efficient, further reducing expenses. Builders and developers are increasingly drawn to CLT for its potential to save both time and money in construction projects, making it a significant driver in the market's growth.

Design Flexibility and Aesthetic Appeal

CLT's versatility in design and aesthetic appeal is another key driver for its market growth. Architects and designers appreciate its adaptability in creating unique and visually striking structures. CLT can be used in a wide range of architectural styles, from modern to rustic, and can be left exposed to showcase its natural wood texture and warmth. This design flexibility aligns with the growing demand for buildings that not only meet functional requirements but also provide an attractive and distinctive appearance. As a result, CLT is increasingly being integrated into high-end residential and commercial projects.

Improved Fire and Seismic Performance

CLT's structural properties contribute to its popularity in regions prone to earthquakes and fires. It is inherently stable and exhibits excellent seismic performance due to its lightweight yet strong composition. Additionally, when exposed to fire, CLT forms a protective char layer, insulating the inner layers and maintaining its structural integrity for an extended period compared to steel and concrete. Given the increasing concerns about natural disasters, CLT is becoming a preferred choice for building in regions with seismic activity and a history of wildfires, further driving its market growth.

Government Support and Regulations

Many governments worldwide are promoting the use of CLT through incentives, subsidies, and updated building codes. These measures aim to encourage sustainable building practices and reduce greenhouse gas emissions associated with the construction industry. Government support can include tax incentives, grants, and streamlined permitting processes for CLT projects. As governments continue to prioritize sustainability and green building initiatives, these policies will play a significant role in boosting the CLT market.

Growing Urbanization and Housing Demand

Rapid urbanization and increasing housing demand, particularly in densely populated urban areas, are driving the adoption of CLT. CLT's ability to reduce construction time and its efficient use of space make it an attractive choice for urban developers looking to maximize land use and deliver housing solutions quickly. Moreover, the rising trend of mixed-use developments, which combine residential, commercial, and retail spaces in a single structure, benefits from CLT's flexibility and speed of construction.

In conclusion, the Cross Laminated Timber market is being driven by a confluence of factors, including sustainability concerns, cost efficiency, design flexibility, improved performance, government support, and urbanization trends. These drivers are expected to continue shaping the market as CLT gains prominence in the global construction industry.

Government Policies are Likely to Propel the Market

Green Building Certification and Incentive Programs

Green building certification programs, such as LEED (Leadership in Energy and

Environmental Design) in the United States and BREEAM (Building Research Establishment Environmental Assessment Method) in the United Kingdom, have become instrumental in promoting sustainable construction practices, including the use of CLT. Governments often encourage and, in some cases, require builders to adhere to these standards when constructing public and commercial buildings. To incentivize CLT adoption, governments may offer tax credits, grants, or expedited permitting processes to projects that meet or exceed these green building certification criteria. These policies drive the demand for CLT by rewarding sustainable construction practices.

Timber Harvesting and Sustainable Forestry Regulations

Timber harvesting and sustainable forestry regulations play a crucial role in ensuring a continuous supply of wood resources for CLT production. Governments enact laws and policies to regulate logging practices, prevent deforestation, and promote responsible forest management. These policies often require companies involved in timber production to adhere to sustainability standards, such as the Forest Stewardship Council (FSC) certification. By ensuring a steady supply of wood while safeguarding forests, these regulations indirectly support the CLT market by providing a reliable source of raw materials.

Building Codes and Standards

Government building codes and standards have a direct impact on the use of CLT in construction. Many jurisdictions have updated their building codes to include provisions for CLT, specifying its use in various structural and non-structural applications. These codes outline requirements for CLT design, manufacturing, and installation to ensure safety and performance. By officially recognizing CLT as a viable building material and establishing guidelines for its use, governments promote its adoption in construction projects. This, in turn, stimulates the growth of the CLT market.

Carbon Pricing and Emission Reduction Policies

In the context of addressing climate change, governments are implementing carbon pricing mechanisms, such as carbon taxes and cap-and-trade systems, to incentivize the reduction of greenhouse gas emissions. CLT, as a carbon-sequestering material, can benefit from such policies. Governments may offer financial incentives, tax breaks, or carbon offset credits to builders and manufacturers who use CLT in their projects. These policies encourage the construction industry to embrace CLT as a means to

reduce the carbon footprint of buildings.

Research and Development Funding

Governments often allocate funding for research and development (R&D) initiatives aimed at advancing CLT technology and increasing its competitiveness in the construction market. These funds support projects focused on improving CLT production processes, developing innovative applications, and addressing technical challenges. By investing in CLT R&D, governments foster innovation and help lower the overall costs of CLT production. This makes CLT a more attractive option for builders and developers, further propelling its market growth.

Export and Trade Policies

International trade policies and agreements can significantly impact the CLT market. Governments may negotiate trade agreements that facilitate the export of CLT products to foreign markets or impose tariffs and restrictions that affect the global CLT trade. Policies related to export and trade can influence the availability and pricing of CLT materials in different regions. Governments may seek to promote domestic CLT production by imposing tariffs on imported CLT or actively support the export of domestically produced CLT to boost the local industry.

In conclusion, government policies play a pivotal role in shaping the Cross Laminated Timber (CLT) market by promoting sustainability, ensuring a stable supply of raw materials, setting building standards, encouraging carbon reduction, funding research and development, and regulating international trade. These policies collectively contribute to the growth and sustainability of the CLT industry.

Key Market Challenges

Market Acceptance and Education

Cross Laminated Timber (CLT) Market Challenge: Lack of Awareness and Market Acceptance

One of the primary challenges facing the CLT market is the lack of widespread awareness and market acceptance. While CLT offers numerous benefits, including sustainability, cost-effectiveness, and design flexibility, many stakeholders in the construction industry, including builders, architects, and developers, are still relatively

unfamiliar with this innovative building material.

The Awareness Gap: The construction industry has traditionally relied on materials like concrete and steel, and changing established practices can be met with resistance. To overcome this challenge, extensive education and awareness campaigns are needed to inform industry professionals, policymakers, and the general public about the advantages of CLT.

Misconceptions: Additionally, there are misconceptions and concerns about CLT's fire resistance, structural integrity, and long-term durability. Addressing these misconceptions through accurate information and research findings is crucial to building trust in CLT as a reliable construction material.

Policy and Building Code Alignment: Aligning building codes and regulations with CLT's unique characteristics and capabilities is another aspect of market acceptance. While progress has been made in this regard, some jurisdictions still lack clear guidelines for CLT usage. Government efforts to update building codes to accommodate CLT and ensure safety standards are met are essential for wider acceptance.

Education and Training: Furthermore, there is a need for specialized training and education programs for architects, engineers, and construction workers to equip them with the knowledge and skills required to work effectively with CLT. This training would help overcome resistance stemming from the unfamiliarity with CLT's properties and construction methods.

In conclusion, the challenge of market acceptance and education is significant for the CLT industry. Overcoming this challenge will require collaborative efforts from industry associations, government agencies, educational institutions, and CLT manufacturers to raise awareness, dispel misconceptions, and ensure that the benefits and capabilities of CLT are widely understood and embraced.

Supply Chain Constraints and Raw Material Availability

Cross Laminated Timber (CLT) Market Challenge: Supply Chain Constraints and Raw Material Availability

The availability of raw materials and efficient supply chains is a critical challenge for the CLT market. CLT is primarily made from wood, and its production relies on a consistent supply of quality timber. Several factors contribute to supply chain constraints and raw

material availability challenges:

Timber Sourcing and Sustainability: The sustainable sourcing of timber is a paramount concern for the CLT industry. As demand for CLT increases, there is a risk of overharvesting and deforestation if responsible forestry practices are not maintained. Governments and industry stakeholders must work together to ensure that timber used for CLT production comes from sustainably managed forests, certified by organizations like the Forest Stewardship Council (FSC).

Seasonal and Regional Variability: The availability of timber can vary seasonally and regionally. Extreme weather events, pests, diseases, and natural disasters can impact timber production. These variations can lead to supply chain disruptions and price fluctuations, affecting the cost and reliability of CLT as a building material.

Production Capacity and Scaling: Scaling up CLT production facilities to meet growing demand can be challenging. The construction of CLT manufacturing plants requires significant capital investment, and it can take time to establish the necessary infrastructure and workforce. As a result, there may be periods of supply shortages as the industry seeks to expand production capacity to meet market needs.

Transportation and Logistics: The transportation of CLT panels from manufacturing facilities to construction sites can also pose logistical challenges. CLT panels are large and heavy, requiring specialized transportation methods and equipment. Ensuring a smooth and efficient logistics network is essential to prevent delays and additional costs.

International Trade and Tariffs: Global trade policies and tariffs can impact the availability and cost of CLT. Trade disputes and protectionist measures can disrupt the international supply chain for CLT, affecting both imports and exports.

To address these supply chain and raw material availability challenges, a comprehensive approach is needed. This includes sustainable forestry management practices, investment in research and development for alternative wood sources, diversification of supply chains, and collaboration between governments, timber producers, and CLT manufacturers. Furthermore, efforts to mitigate climate change and reduce the risk of forest-related challenges are critical to ensuring a stable and sustainable supply of raw materials for the CLT market.

Segmental Insights

5-Ply Insights

The 5-Ply segment had the largest market share in 2022 & expected to maintain in the forecast period. One of the primary reasons for the dominance of 5-ply CLT in the global market is its superior structural performance. The additional layers compared to 3-ply CLT provide increased strength and load-bearing capacity. This makes 5-ply CLT suitable for a wide range of construction applications, including mid-rise and high-rise buildings. 5-ply CLT is highly versatile and can be used in various architectural and construction designs. Its enhanced strength allows architects and engineers to create innovative and complex structures, including large spans and tall buildings. This versatility has made 5-ply CLT a preferred choice for projects with diverse design requirements. Many regions and countries have updated their building codes to include provisions for CLT. These codes often specify the minimum number of layers and thickness required for CLT panels to meet structural requirements. 5-ply CLT typically meets or exceeds these code requirements, making it easier to obtain approvals for construction projects. 5-ply CLT, like other CLT configurations, is known for its sustainability and environmental benefits. CLT is a renewable resource, and the production process sequesters carbon dioxide, making it an eco-friendly alternative to traditional building materials like concrete and steel. Its sustainability aligns with global efforts to reduce the carbon footprint of construction projects, contributing to its popularity. The prefabricated nature of CLT panels, including 5-ply panels, offers a significant advantage in terms of construction speed. CLT panels are manufactured offsite and can be rapidly assembled on the construction site. This results in shorter construction times, reducing labor costs and project timelines. The speed of construction is particularly advantageous for residential and commercial developers looking to complete projects quickly. 5-ply CLT panels have a clean and modern appearance due to the visible wood layers on their surfaces. This aesthetic quality has made them a preferred choice for architectural projects where exposed wood surfaces are desired. The natural beauty of wood contributes to the overall visual appeal of buildings, enhancing their marketability. CLT, including 5-ply panels, offers excellent acoustic and thermal properties. The thickness and mass of 5-ply CLT provide effective sound insulation, making it suitable for residential and commercial buildings. Additionally, wood's natural insulating properties help regulate indoor temperatures and reduce energy consumption, contributing to energy-efficient construction.

Residential Insights

The residential segment had the largest market share in 2022 and is projected to experience rapid growth during the forecast period. The growing global emphasis on sustainability and environmental responsibility has significantly contributed to the dominance of CLT in residential construction. CLT is known for its eco-friendly attributes as it is made from renewable wood resources, which sequester carbon dioxide. Choosing CLT aligns with green building practices, making it an appealing choice for environmentally conscious homeowners and builders. CLT panels offer excellent thermal insulation properties, which are highly desirable in residential construction. Homes constructed with CLT benefit from superior energy efficiency, reducing heating and cooling costs. As energy-efficient construction practices become increasingly important, CLT's insulation capabilities make it a dominant choice in the residential sector. CLT's prefabricated nature allows for rapid construction, reducing project timelines. This is particularly advantageous in residential construction, where faster completion means reduced labor costs and a quicker transition for homeowners. The speed of construction makes CLT an appealing option for developers and contractors in the residential market. CLT offers architects and designers significant flexibility in residential projects. Its ability to span large distances without additional support columns allows for open floor plans and innovative architectural designs. Homeowners seeking unique and contemporary designs are drawn to CLT for its design flexibility. CLT's natural wood appearance adds aesthetic value to residential properties. Exposed wood surfaces create warm and inviting interiors, enhancing the overall visual appeal of homes. This aesthetic quality makes CLT an attractive choice for custom and luxury residential projects. CLT's structural stability and load-bearing capacity are well-suited for residential construction. It can support multiple stories, making it ideal for multi-level homes, including townhouses and apartment buildings. The structural performance of CLT ensures the safety and longevity of residential structures.

Regional Insights

Europe is the leading region in the CLT market, with the largest market share in 2022. The growth of the CLT market in Europe is being driven by the increasing demand for sustainable and eco-friendly building materials. The European Union has set ambitious targets for reducing greenhouse gas emissions, and CLT is seen as a way to achieve these targets. Additionally, there is a growing awareness of the environmental benefits of CLT among consumers and builders in Europe.

North America is the second-largest market for CLT, with a second-largest market share in 2022. The growth of the CLT market in North America is being driven by the rising

popularity of prefabricated construction. Prefabricated construction is becoming increasingly popular in North America as it can help to reduce construction time and waste. CLT is a popular material for prefabricated construction because it is strong, durable, and easy to work with.

Key Market Players

Binderholz GmbH

KLH Massivholz GmbH

Mayr-Melnhof Holz Holding AG

Stora Enso Oyj

Weyerhaeuser Company

Accoya

XLam NZ Limited

Structurlam Mass Timber Corporation

SmartLam NA

APA - The Engineered Wood Association

Report Scope:

In this report, the Global Cross Laminated Timber Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Cross Laminated Timber Market, By Bonding Technology:

Adhesive Bonded

Mechanically Fastened

Cross Laminated Timber Market, By Application:

Residential Buildings

Non-Residential Buildings

Others

Cross Laminated Timber Market, By Layer Type:

3-ply

5-ply

Others

Cross Laminated Timber Market, By Structure Type:

Wall

Roof & floor

Others

Cross Laminated Timber Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia-Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Kuwait

Turkey

Egypt

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Cross Laminated Timber Market.

Available Customizations:

Global Cross Laminated Timber market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

Contents

1. PRODUCT OVERVIEW

2. RESEARCH METHODOLOGY

3. EXECUTIVE SUMMARY

4. VOICE OF CUSTOMER

5. GLOBAL CROSS LAMINATED TIMBER MARKET OUTLOOK

5.1. Market Size & Forecast

5.1.1. By Value

5.2. Market Share & Forecast

5.2.1. By Bonding Technology (Adhesive Bonded and Mechanically Fastened)

5.2.2. By Application (Residential Buildings, Non-Residential Buildings, and Others)

5.2.3. By Layer Type (3-ply, 5-ply, Others)

5.2.4. By Structure Type (Wall, Roof & floor, Others)

5.2.5. By Region

5.2.6. By Company (2022)

5.3. Market Map

6. NORTH AMERICA CROSS LAMINATED TIMBER MARKET OUTLOOK

6.1. Market Size & Forecast

6.1.1. By Value

6.2. Market Share & Forecast

6.2.1. By Bonding Technology

6.2.2. By Application

6.2.3. By Layer Type

6.2.4. By Structure Type

6.2.5. By Country

6.3. North America: Country Analysis

6.3.1. United States Cross Laminated Timber Market Outlook

6.3.1.1. Market Size & Forecast

6.3.1.1.1. By Value

6.3.1.2. Market Share & Forecast

6.3.1.2.1. By Bonding Technology

- 6.3.1.2.2. By Application
- 6.3.1.2.3. By Layer Type
- 6.3.1.2.4. By Structure Type
- 6.3.2. Canada Cross Laminated Timber Market Outlook
 - 6.3.2.1. Market Size & Forecast
 - 6.3.2.1.1. By Value
 - 6.3.2.2. Market Share & Forecast
 - 6.3.2.2.1. By Bonding Technology
 - 6.3.2.2.2. By Application
 - 6.3.2.2.3. By Layer Type
 - 6.3.2.2.4. By Structure Type
- 6.3.3. Mexico Cross Laminated Timber Market Outlook
 - 6.3.3.1. Market Size & Forecast
 - 6.3.3.1.1. By Value
 - 6.3.3.2. Market Share & Forecast
 - 6.3.3.2.1. By Bonding Technology
 - 6.3.3.2.2. By Application
 - 6.3.3.2.3. By Layer Type
 - 6.3.3.2.4. By Structure Type

7. EUROPE CROSS LAMINATED TIMBER MARKET OUTLOOK

- 7.1. Market Size & Forecast
 - 7.1.1. By Value
- 7.2. Market Share & Forecast
 - 7.2.1. By Bonding Technology
 - 7.2.2. By Application
 - 7.2.3. By Layer Type
 - 7.2.4. By Structure Type
 - 7.2.5. By Country
- 7.3. Europe: Country Analysis
 - 7.3.1. Germany Cross Laminated Timber Market Outlook
 - 7.3.1.1. Market Size & Forecast
 - 7.3.1.1.1. By Value
 - 7.3.1.2. Market Share & Forecast
 - 7.3.1.2.1. By Bonding Technology
 - 7.3.1.2.2. By Application
 - 7.3.1.2.3. By Layer Type
 - 7.3.1.2.4. By Structure Type

7.3.2. United Kingdom Cross Laminated Timber Market Outlook

7.3.2.1. Market Size & Forecast

7.3.2.1.1. By Value

7.3.2.2. Market Share & Forecast

7.3.2.2.1. By Bonding Technology

7.3.2.2.2. By Application

7.3.2.2.3. By Layer Type

7.3.2.2.4. By Structure Type

7.3.3. Italy Cross Laminated Timber Market Outlook

7.3.3.1. Market Size & Forecast

7.3.3.1.1. By Value

7.3.3.2. Market Share & Forecast

7.3.3.2.1. By Bonding Technology

7.3.3.2.2. By Application

7.3.3.2.3. By Layer Type

7.3.3.2.4. By Structure Type

7.3.4. France Cross Laminated Timber Market Outlook

7.3.4.1. Market Size & Forecast

7.3.4.1.1. By Value

7.3.4.2. Market Share & Forecast

7.3.4.2.1. By Bonding Technology

7.3.4.2.2. By Application

7.3.4.2.3. By Layer Type

7.3.4.2.4. By Structure Type

7.3.5. Spain Cross Laminated Timber Market Outlook

7.3.5.1. Market Size & Forecast

7.3.5.1.1. By Value

7.3.5.2. Market Share & Forecast

7.3.5.2.1. By Bonding Technology

7.3.5.2.2. By Application

7.3.5.2.3. By Layer Type

7.3.5.2.4. By Structure Type

8. ASIA-PACIFIC CROSS LAMINATED TIMBER MARKET OUTLOOK

8.1. Market Size & Forecast

8.1.1. By Value

8.2. Market Share & Forecast

8.2.1. By Bonding Technology

- 8.2.2. By Application
- 8.2.3. By Layer Type
- 8.2.4. By Structure Type
- 8.2.5. By Country
- 8.3. Asia-Pacific: Country Analysis
 - 8.3.1. China Cross Laminated Timber Market Outlook
 - 8.3.1.1. Market Size & Forecast
 - 8.3.1.1.1. By Value
 - 8.3.1.2. Market Share & Forecast
 - 8.3.1.2.1. By Bonding Technology
 - 8.3.1.2.2. By Application
 - 8.3.1.2.3. By Layer Type
 - 8.3.1.2.4. By Structure Type
 - 8.3.2. India Cross Laminated Timber Market Outlook
 - 8.3.2.1. Market Size & Forecast
 - 8.3.2.1.1. By Value
 - 8.3.2.2. Market Share & Forecast
 - 8.3.2.2.1. By Bonding Technology
 - 8.3.2.2.2. By Application
 - 8.3.2.2.3. By Layer Type
 - 8.3.2.2.4. By Structure Type
 - 8.3.3. Japan Cross Laminated Timber Market Outlook
 - 8.3.3.1. Market Size & Forecast
 - 8.3.3.1.1. By Value
 - 8.3.3.2. Market Share & Forecast
 - 8.3.3.2.1. By Bonding Technology
 - 8.3.3.2.2. By Application
 - 8.3.3.2.3. By Layer Type
 - 8.3.3.2.4. By Structure Type
 - 8.3.4. South Korea Cross Laminated Timber Market Outlook
 - 8.3.4.1. Market Size & Forecast
 - 8.3.4.1.1. By Value
 - 8.3.4.2. Market Share & Forecast
 - 8.3.4.2.1. By Bonding Technology
 - 8.3.4.2.2. By Application
 - 8.3.4.2.3. By Layer Type
 - 8.3.4.2.4. By Structure Type
 - 8.3.5. Australia Cross Laminated Timber Market Outlook
 - 8.3.5.1. Market Size & Forecast

- 8.3.5.1.1. By Value
- 8.3.5.2. Market Share & Forecast
 - 8.3.5.2.1. By Bonding Technology
 - 8.3.5.2.2. By Application
 - 8.3.5.2.3. By Layer Type
 - 8.3.5.2.4. By Structure Type

9. SOUTH AMERICA CROSS LAMINATED TIMBER MARKET OUTLOOK

- 9.1. Market Size & Forecast
 - 9.1.1. By Value
- 9.2. Market Share & Forecast
 - 9.2.1. By Bonding Technology
 - 9.2.2. By Application
 - 9.2.3. By Layer Type
 - 9.2.4. By Structure Type
 - 9.2.5. By Country
- 9.3. South America: Country Analysis
 - 9.3.1. Brazil Cross Laminated Timber Market Outlook
 - 9.3.1.1. Market Size & Forecast
 - 9.3.1.1.1. By Value
 - 9.3.1.2. Market Share & Forecast
 - 9.3.1.2.1. By Bonding Technology
 - 9.3.1.2.2. By Application
 - 9.3.1.2.3. By Layer Type
 - 9.3.1.2.4. By Structure Type
 - 9.3.2. Argentina Cross Laminated Timber Market Outlook
 - 9.3.2.1. Market Size & Forecast
 - 9.3.2.1.1. By Value
 - 9.3.2.2. Market Share & Forecast
 - 9.3.2.2.1. By Bonding Technology
 - 9.3.2.2.2. By Application
 - 9.3.2.2.3. By Layer Type
 - 9.3.2.2.4. By Structure Type
 - 9.3.3. Colombia Cross Laminated Timber Market Outlook
 - 9.3.3.1. Market Size & Forecast
 - 9.3.3.1.1. By Value
 - 9.3.3.2. Market Share & Forecast
 - 9.3.3.2.1. By Bonding Technology

- 9.3.3.2.2. By Application
- 9.3.3.2.3. By Layer Type
- 9.3.3.2.4. By Structure Type

10. MIDDLE EAST AND AFRICA CROSS LAMINATED TIMBER MARKET OUTLOOK

- 10.1. Market Size & Forecast
 - 10.1.1. By Value
- 10.2. Market Share & Forecast
 - 10.2.1. By Bonding Technology
 - 10.2.2. By Application
 - 10.2.3. By Layer Type
 - 10.2.4. By Structure Type
 - 10.2.5. By Country
- 10.3. MEA: Country Analysis
 - 10.3.1. South Africa Cross Laminated Timber Market Outlook
 - 10.3.1.1. Market Size & Forecast
 - 10.3.1.1.1. By Value
 - 10.3.1.2. Market Share & Forecast
 - 10.3.1.2.1. By Bonding Technology
 - 10.3.1.2.2. By Application
 - 10.3.1.2.3. By Layer Type
 - 10.3.1.2.4. By Structure Type
 - 10.3.2. Saudi Arabia Cross Laminated Timber Market Outlook
 - 10.3.2.1. Market Size & Forecast
 - 10.3.2.1.1. By Value
 - 10.3.2.2. Market Share & Forecast
 - 10.3.2.2.1. By Bonding Technology
 - 10.3.2.2.2. By Application
 - 10.3.2.2.3. By Layer Type
 - 10.3.2.2.4. By Structure Type
 - 10.3.3. UAE Cross Laminated Timber Market Outlook
 - 10.3.3.1. Market Size & Forecast
 - 10.3.3.1.1. By Value
 - 10.3.3.2. Market Share & Forecast
 - 10.3.3.2.1. By Bonding Technology
 - 10.3.3.2.2. By Application
 - 10.3.3.2.3. By Layer Type
 - 10.3.3.2.4. By Structure Type

11. MARKET DYNAMICS

12. MARKET TRENDS & DEVELOPMENTS

13. COMPANY PROFILES

- 13.1. Binderholz GmbH
- 13.2. KLH Massivholz GmbH
- 13.3. Mayr-Melnhof Holz Holding AG
- 13.4. Stora Enso Oyj
- 13.5. Weyerhaeuser Company
- 13.6. Accoya
- 13.7. XLam NZ Limited
- 13.8. Structurlam Mass Timber Corporation
- 13.9. SmartLam NA
- 13.10. APA - The Engineered Wood Association

14. STRATEGIC RECOMMENDATIONS

15. ABOUT US & DISCLAIMER

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