



ONE HUNDRED-FOOT OPEN SPAN GLULAM TRUSS SYSTEM.

*Source: Vaagen Timbers; Credit: Vaagen Media*

## CASE STUDY: WAREHOUSE B10

# JANICKI'S NEW MASS TIMBER INDUSTRIAL BUILDING LARGEST IN US

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**PROJECT OWNER:** JANICKI INDUSTRIES

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**PROJECT LOCATION:** 34240 STATE ROUTE 20  
HAMILTON, WA 98255

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**COMPLETION DATE:** JULY 5, 2023

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**ARCHITECT/DESIGNER:** CARLETTI ARCHITECTS

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**MASS TIMBER ENGINEER/MANUFACTURER:** VAAGEN TIMBERS

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**GENERAL CONTRACTOR:** CHAD FISHER CONSTRUCTION

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**STRUCTURAL ENGINEER:** DCG/WATERSHED

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**JANICKI INDUSTRIES' BUILDING 10** in Hamilton, Washington, showcases innovation in aerospace manufacturing and assembly. Within its 188,000 square feet of mass timber construction, the facility supports the use of sustainable materials for large-scale industrial buildings. As the largest industrial mass timber building in the United States, Janicki's Building 10 represents a milestone in the construction industry.



**TWO-STORY COMPLETE MASS TIMBER OFFICE SPACE.**

*Source: Vaagen Timbers; Credit: Vaagen Media*



**THIRTY-TWO-FOOT BAY DOOR OPENINGS.**

*Source: Vaagen Timbers; Credit: Vaagen Media*

DCG/Watershed was the structural engineer for the project and designed all structural aspects with value engineering based on speed and ease of construction. The innovations included eliminating rebar in the industrial slabs; and integrating concrete tilt walls, wood shear walls, and Cross-Laminated Timber (CLT) shear walls for the lateral system. The design and construction schedules for the project were compressed. Schematic design and programming started in February 2022, and the facility was occupied by July 2023, just 17 months later.

Key communication among the team was instrumental. Weekly team meetings between the client and contractor, Chad Fisher Construction, and weekly coordination with mass timber supplier Vaagen Timbers addressed conflicts early on, minimizing construction delays and bringing about well-coordinated construction sequencing.

In addition to its striking architectural design, Janicki's Building 10 is noteworthy in other aspects. The project adhered to a strict schedule and saved at

least 9 months of time in design and construction by using mass timber as a sustainable material. A total of 285 acres of overstocked, fire-prone Washington forest was thinned to support the Building 10 project, playing a vital role in reducing the risk of catastrophic wildfires by fostering a biodiverse forest ecosystem. The forestlands involved went from a class 3 fire danger to a class 1, enhancing safety and sustainability.

Janicki's Building 10 showcases the durability, sustainability, and aesthetic appeal of mass timber. By employing this innovative material, Janicki not only spearheaded advancements in the construction industry but also contribute to preserving the environment and mitigating the risks of wildfires. This building technique holds immense promise for the future of sustainable infrastructure. Janicki, an engineering and manufacturing company, caters to a number of industries, including aerospace, defense, marine, and architecture. 🌱