

STORY TO DATE:

# DR Johnson Wood Innovations



STORY TO DATE:

# Manufacturing APA/ANSI Certified CLT Panels



**DR Johnson**  
Wood Innovations  
Riddle OR

STORY TO DATE:

# Dedicated CLT Manufacturing/Fabrication Building



**DR Johnson**  
Wood Innovations  
Riddle OR

STORY TO DATE:

# Utilizing Proven Manufacturing Processes



STORY TO DATE:

# Fabricating Panels/Beams to Tight Tolerances



**DR Johnson**  
Wood Innovations  
Riddle OR

STORY TO DATE:

# CLT Panels To Fit Precisely Upon Arrival



**DR Johnson**  
Wood Innovations  
Riddle OR

STORY TO DATE:

# Transporting APA/ANSI Certified CLT Panels



STORY TO DATE:

# Providing On-Site Installation Assistance





LESSONS LEARNED:

# Product Testing



**Acoustical Testing: Ongoing**  
**Wind Testing: Ongoing**  
**Treated CLT: Ongoing**  
**Multi-Species CLT: Ongoing**



LESSONS LEARNED:

## Product Testing-

## FIRE TESTING



**ASTM E119 TEST**

**2-Hour Rating Achieved**

**ASTM E84 TEST**

**Class "A" Flame Spread Rating  
achieved**

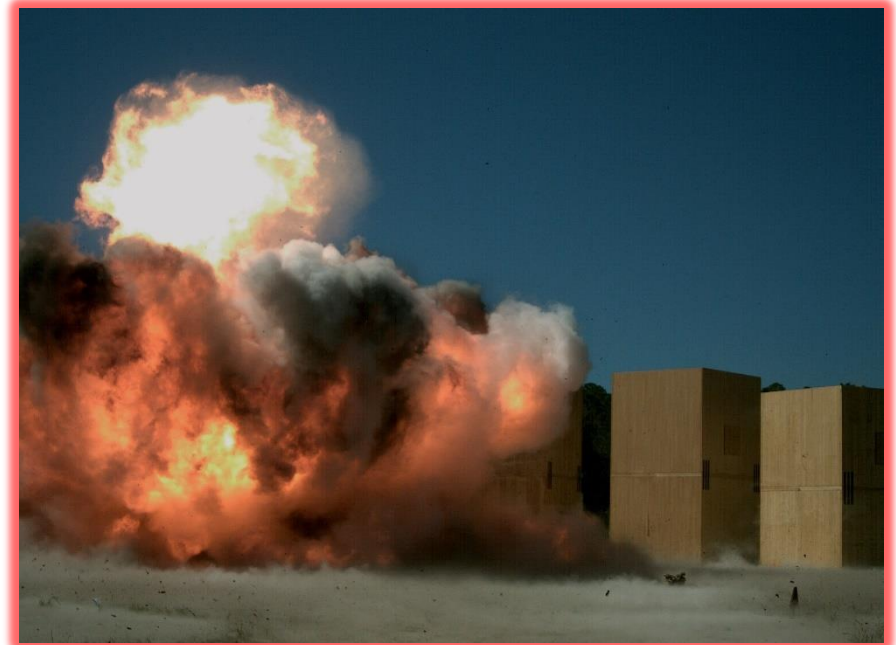
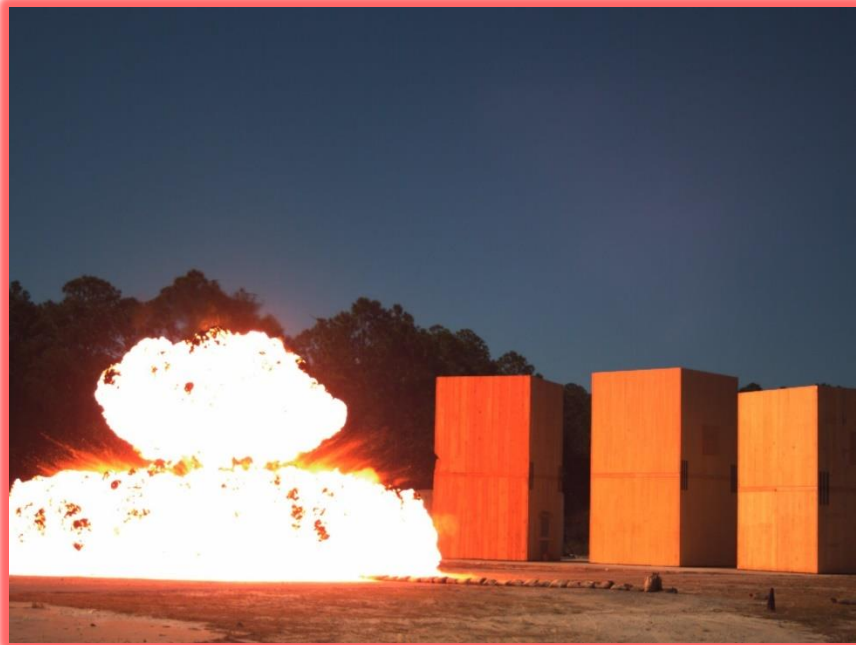


LESSONS LEARNED:

# Product Testing- **BLAST TESTING**



**“Stand-Off” Rating  
For use in  
Government/Military  
Project Applications**

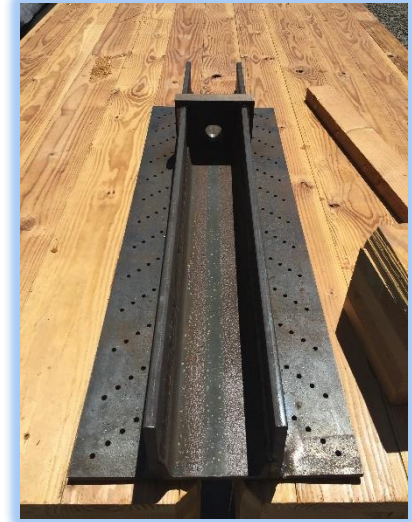


LESSONS LEARNED:

# Product Testing- SEISMIC TESTING



**2-Story DRJ CLT & Glulam Beam Structure on a Shake Table in San Diego, CA**



LESSONS LEARNED:

# Product Testing- SEISMIC TESTING



LESSONS LEARNED:

# Not Just a Materials Supplier



LESSONS LEARNED:

# PROJECT TEAM COLLABORATION

**Architects/ Engineers/ Developers- Pre Construction**



**Attend Project Design Meetings**

**Review Plan Sets at Various Stages of Design**

**Provide Budgetary Cost Estimates at each Stage of Design**

**Building Department Review/ Product Testing**



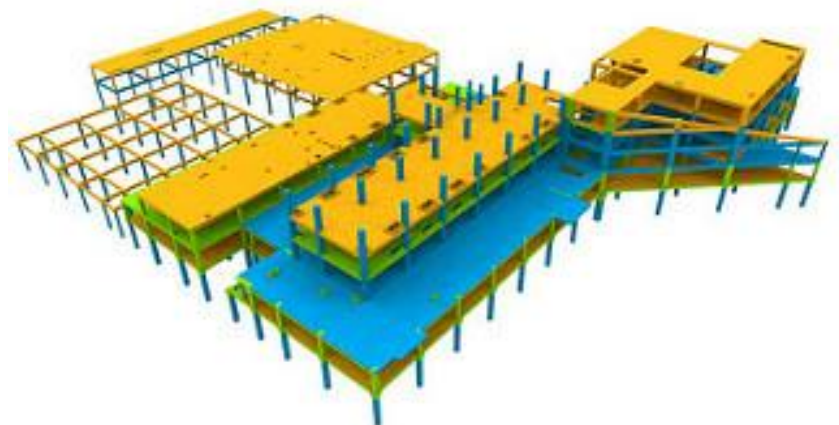
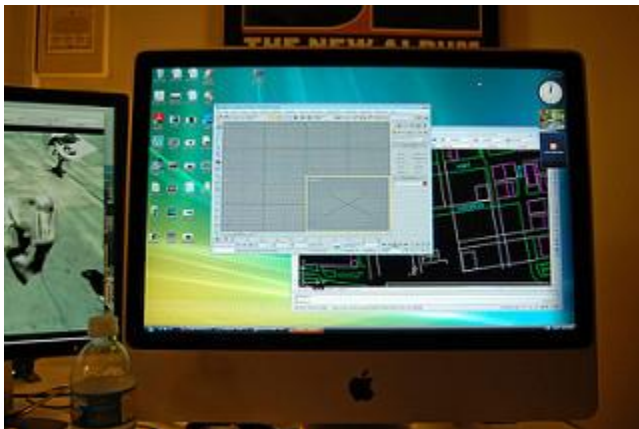
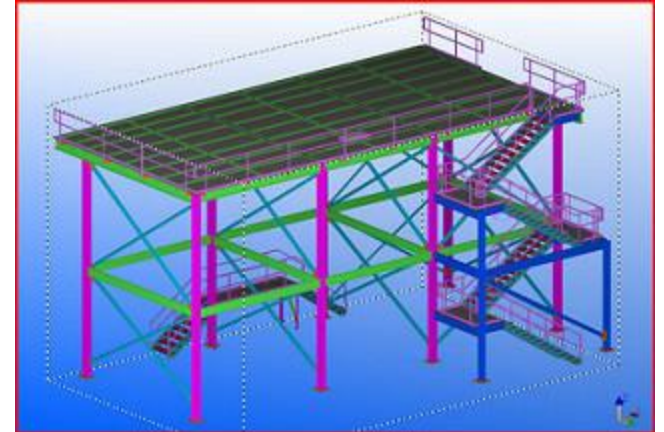
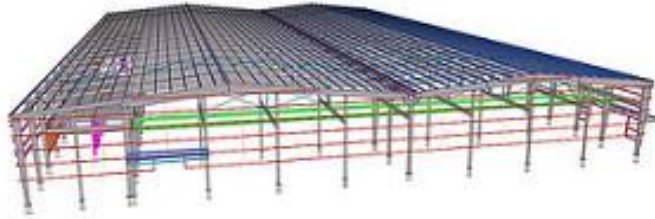
# Complex Connections- Engineering Requirements





LESSONS LEARNED:

# Building Information Models (BIM)



## BIM: Building Information Modeling

“The model is crucial to the overall BIM process. It sets the stage for the overall project, contains all of the virtual equivalents to the building’s parts and pieces and invokes the practical applications of these parts...In order to get the true gist of BIM it helps to think of the word “building” in terms of the verb “to build”. BIM is a process that involves the act of building something together, whether it relates to architecture, engineering...or other large-scale projects.”

ENGINEERING.com

And, as we have discovered, it involves the manufacturing and fabrication of the mass timber components. D.R. JOHNSON

# RICHARD WOODCOCK CENTER



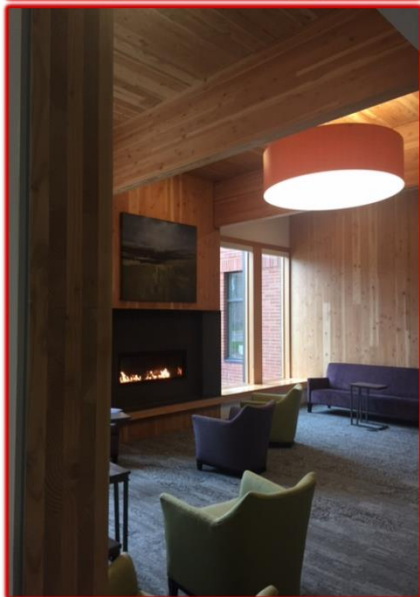
## 2015

### PROJECT INFORMATION

**CLT Size:** 3-Ply (4.125")

**CLT Use:** Walls

*This was the first CLT delivery for D.R. Johnson Wood Innovations after achieving ANSI/PRG320-2012 Certification. The CLT Panels were used as decorative walls throughout the student gathering area.*



# ALBINA YARD PROJECT— PORTLAND, OR

## 2015-2016



### PROJECT INFORMATION

**CLT Size:** 3-Ply (4.125")

**CLT Use:** Floors & Stairs

**CLT Square Footage:** 14,280 Sq.′

**CLT Board Footage:** 58,950 BF

**CLT Production Shifts:** 10

**Project Status:** **COMPLETE**

**Manufacturing Start:** November 2015

**First CLT Delivery:** January 2016

**Special Note:** DRJ Wood Innovations will also be supplying Glulam Beams/ Columns- used to support the CLT for this project.



**ALBINA YARD IS THE FIRST OFFICE BUILDING IN THE UNITED STATES MADE FROM DOMESTICALLY - FABRICATED CLT**

# WASHINGTON MODULAR SCHOOL BUILDING PILOT PROGRAM- 2017



## PROJECT INFORMATION

**CLT Size:** 3-Ply (4.125")

**CLT Use:** Floors, Walls, Roof

**CLT Square Footage East:** 20,360 Sq.'

**CLT Board Footage East:** 145,000 BF

**CLT Square Footage West:** 10,730 Sq.'

**CLT Board Footage West:** 76,175 BF

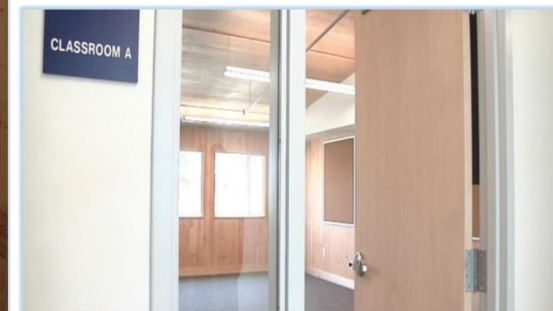
**CLT Production Shifts (Total):** 20

**Project Status:** COMPLETE

**Manufacturing Start:** January 2017

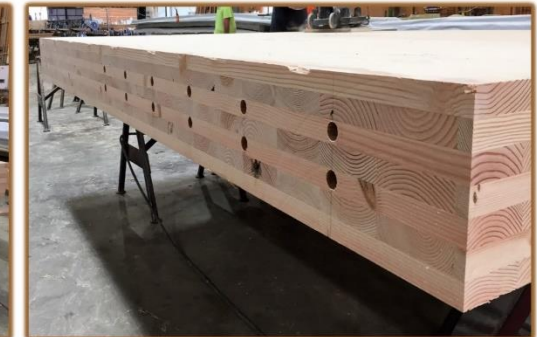
**First CLT Delivery:** February 2017

**Special Note:** This project represents a total of (5) classroom building structures. The project was awarded to two different project teams. East Side team was Wapato and Toppenish locations and the West side were schools in Sequim, Mt. Vernon & Seattle.



# Oregon State University– Peavy Hall Project

## 2017-2018



### PROJECT INFORMATION

**CLT Size:** 5-Ply (6.875”), 7-Ply (9.625”)

**CLT Use:** Floors, Walls, Stairs

**CLT Square Footage:** 60,250 Sq.’

**CLT Board Footage:** 860,800 BF

**CLT Production Shifts:** 70

**Project Status:**

Finalizing Design,

Procuring Lumber,

Project Mock-Up (Below)

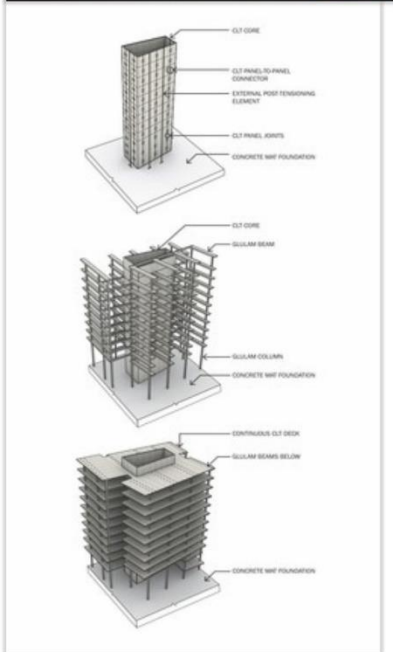
**Manufacturing Start:** June 2017

**First CLT Delivery:** September 2018

**Special Note:** DRJ Wood Innovations will also be supplying 377,450 BF of Glulam Beams/Columns- used to support the CLT for this project.

# Framework Project— Portland, OR

## 2017-2018



### PROJECT INFORMATION

**CLT Size:** 5-Ply (6.875"), 7-Ply (9.625")

**CLT Use:** Floors, Walls, Stairs, Core

**CLT Square Footage:** 101,000 Sq.′

**CLT Board Footage:** 1,300,500 BF

**CLT Production Shifts:** 115

### **Project Status:**

Finalizing Design,  
Finishing up Product Testing,  
Awaiting Project Award

**Manufacturing Start:** October 2017

**First CLT Delivery:** January 2018

**Special Note:** Framework will be the first skyscraper made from wood in the United States.

STORY TO DATE:

# Project Pipeline- GREAT THINGS TO COME



Bay Area  
Project  
300,000+ Sq.' CLT

FrameWork  
12 Story Mass  
Timber Project  
Portland, OR





# DR Johnson

Wood Innovations  
Riddle OR

