

Leveraging the Component Industry to Provide Efficient Wood-based Structures

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Considerations and Expertise

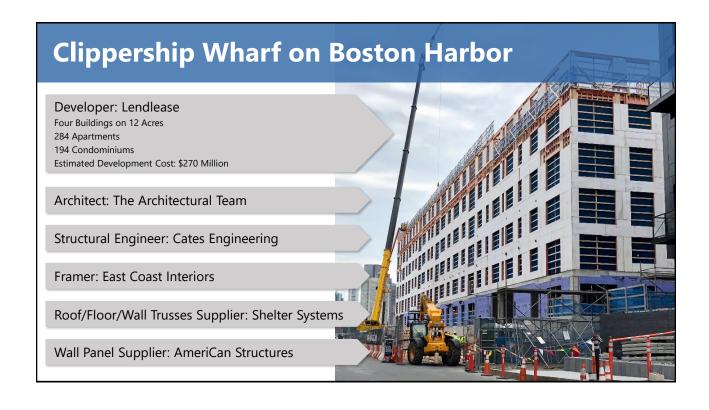
Innovative Structural Framing

- What is the framing material of choice in light-frame construction (i.e. up to 5 stories)?
- What is the most efficient way to industrialize connecting wood parts & metal connectors?
- Digital technology? BIM?
- Where can innovation occur?
- Business model changes?
- What solution always wins? Economics

	Installed Cost Per Square Foot
Steel	\$15-35
Concrete	\$20-40
CLT	\$30-65
Wood Frame	\$18-22

- Evaluating structural shell solutions?
 - Playing to strengths
 - How can CMs and CLT manufacturers both win?
- Design to delivery to storage to installation

Structural Framing Efficiency



Clippership Wharf on Boston Harbor

- BIM Mandated by Lendlease
- Manage Load Path through Component Design
 - Floor Trusses
 - Wall Panels
 - Trussed Headers & Rough Openings
 - Smart Components[™] Portal Frames & Shear Resisting Elements
 - Roof Trusses



Clippership Wharf on Boston Harbor Example of multiple CMs, MEP trades, framers working together Great utilization of technology

Two different CM software

Insight into future collaborations around BIM





CM Value Proposition

- CM digital technology integrated with BIM
 - · Coordination & clash detection
- Dimensions & details vetted, right components for load path resistance
- Structural framework easily industrialized with wood raw material
- Just in time component delivery
- · Installation speed
- Waste reduction
- Structural & Fire Performance, Codes & Economics –
 Specialty Engineering
- 65+ years of providing efficient framing solutions

Resources for Architects, Engineers & Developers

Weekly Industry News: Visit SBCA Booth to Sign Up

Find A Local Component Manufacturer https://www.sbcindustry.com/members/by-location#/

Best Way to Frame www.BestWayToFrame.com

Framing the American Dream www.sbcindustry.com/fad

Building Component Safety Information <u>www.sbcIndustry.com/BCSI</u>

SBCA Technical Support Library Portal www.sbcindustry.com/topical-library

Workforce Development

www.sbcindustry.com/wfd

Workforce Development Tools for Component Manufacturers

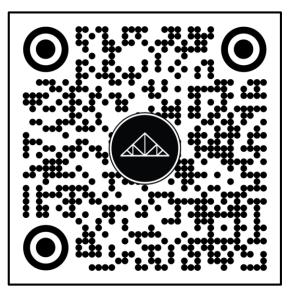
Hiring & Assessing
Training & Retention
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Career Opportunities Board





Scan the code for SBCA's materials from the IWBC Conference or visit our website.

bestwaytoframe.com/iwbc



THANK YOU!