



# **STEEL SAVES MONEY OVER WOOD**

How Steel Framing Outperforms Wood



## CASE STUDY SHOWS STEEL SAVES \$\$\$ OVER WOOD

- The Random Lengths Wood Framing Composite Price reached \$627 per 1,000 board feet for the week ending July 31, 2020.
  - 80% rise from mid-April, according to the National Association of Home Builders.
- Current market pricing shows **wood costs 24% more** compared to steel framing.
- When using steel, the overall building cost would be **5% less**.

	Total Building Cost Summary (Chicago)	Total Building Cost with lower BR and GL Insurance Cost (New Jersey)
Building cost w/ wood framing	\$6,706,300	\$6,861,477
Building cost w/ steel framing	\$6,396,300	\$6,436,449
Savings w/ steel	<b>\$310,000</b>	<b>\$425,028</b>
Steel Cost Advantage	<b>5%</b>	<b>6%</b>
Savings w/ steel in \$/SF	\$6.22	\$8.67



The comparative cost study of framing featured a 5-story, 49,900 SF, mixed-use apartment building. Rendering example via Jonathan Barnes Architecture & Design

## UP, UP, AND AWAY - THE UNSTEADY COST OF LUMBER



— THE UNSTEADY SOARING COST OF LUMBER

# FIRE SAFETY

Wood framed structures are combustible and susceptible to burn during and after construction. World wide, 100's of projects have gone up in flames during construction. In contrast, steel framed

construction is noncombustible and therefore not susceptible to the same risk. More over, steel framed construction will save the project 31% on the cost of fire suppression systems.



**Santa Clara, CA Wood Condo Construction Fire.**  
“Yeah it’s a wood framed structure too. So there’s a lot of air around that lumber and it’s stacked vertically. It promotes rapid fire spread.” Santa Clara Fire Department Chief Bill Kelly via KRON4 News.

# BUILDER’S RISK AND GENERAL LIABILITY SAVINGS

TOTAL COST OF  
BUILDER’S RISK  
INSURANCE



WOOD FRAMED  
PROJECT



STEEL FRAMED  
PROJECT

Note: Data received from  
National Insurance Provider



## SUSTAINABILITY

Clearcutting is a common timber harvesting technique that represents a significant and abrupt change in habitat conditions for wildlife living in industrial forests. Wildlife living in these forests not only experience a change in habitat, but clearcutting poses a serious risk for direct mortality because of the machinery required for cutting down trees and transporting them to a processing facility.

- \* Steel is 100% recyclable and wood is not
- \* Most steel contains recycled content ~ 37%
- \* Steel is the most recycled construction material in the U.S., and world wide.



## QUALITY STEEL



- Dimensionally stable
- High strength to weight ratio
- Superior Sound Quality

vs.

## PESTS & PROBLEMS WOOD

- Termites
- Dry rot
- Mold & Mildew



## CUSTOM CUT-TO-LENGTH

Metal components are fabricated to the specific lengths for the project and then shipped to the job-site resulting in steel scrap rates under 2 percent. Wood produces up to 20 percent scrap.



## BUILD WITH STEEL TODAY!

Leading West Coast Steel Framing Engineers:

