

COLD-FORMED STEEL FOR MID-RISE CONSTRUCTION IN THE ALOHA STATE

A webinar of the SFIA Forum for CFS Industry
Outreach and Input in conjunction with the Hawaii
Steel Alliance



*Tuesday
October 5, 2021
9-11 AM HST*

No Charge for
Members and Guests

Register Here:
www.hawaiisteel.com

THIS AIA CONTINUING EDUCATION COURSE QUALIFIES FOR 2 AIA LU/HSW

Cold-formed steel (CFS) has been used for decades in the State of Hawaii. With the majority of single-family homes in Hawaii being built with steel framing, there is renewed interest in applying these advantages to mid-rise buildings, particularly to help maximize the return on investment from the state's expensive land costs.

SFIA is proud to present a program in conjunction with the Hawaii Steel Alliance that highlights the use of CFS in mid-rise buildings featuring the industry's two most experienced design professionals. In this 2-part presentation, Robert Grupe and Pat Ford, P.E. will first give an introduction to CFS in mid-rise construction followed by more details on the application and design of CFS in mid-rise buildings.

ABOUT THE PRESENTERS & OVERVIEW OF TOPICS



Robert Grupe

Robert Grupe is Program General Manager for the Steel Framing Industry Association, managing the SFIA's Architectural Services Team located in the Eastern, Western, and Central Regions. He has spent over 38 years with United States Gypsum Company in various technical and management positions, including product and system design and technical consultation to the AEC community. He is currently also the Director of Technical Services for the Association of Wall and Ceiling Industry (AWCI).

Pat Ford, P.E.

Pat Ford is Technical Director of the Steel Framing Industry Association, overseeing the SFIA's code compliance certification programs and all technical resources, including the SFIA code reports and Technical Product Catalog. Pat also manages the cold-formed steel design team at raSmith, now one of the largest cold-formed steel engineering groups in the United States, providing services to architects, builders, and general contractors throughout the United States.



Part 1:

Cold-Formed Steel Basics, Basic Details, Codes and Standards, Cold-Formed Steel Capacity (Wall Systems, Floor Systems, Lateral Systems, Wind Loads and Allowable Drift, Fire and Acoustical Performance), Height Capabilities (SFIA/Matsen Tower), Case Studies.

Part 2:

Design of a Mid-Rise Building (case study), Panelization for Loadbearing CFS Walls (Panel Types and Applications), Ideal Project Types for Panelization, Floor Systems Used with Panelized CFS Walls, Panelization Efficiencies, How Fire Ratings may affect Wall Design), Hybrid CFS Structures (When and Why), Common Systems Used with CFS (CFS with Concrete Plank, Long-Span Deck, Wood Framing, Bar Joists, Composite Joists, and Structural Steel).

