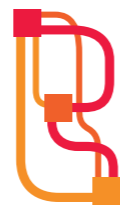


SANDFORD FLEMING FORUM

Structural Resilience - How Building Systems Improve Operational Resilience



RiskLogik

ENTUITIVE



Risk Nexus
Advisory | Expertise | Results



Southern Harbour
FUTURE READY

crci



UNIVERSITY OF TORONTO
FACULTY OF APPLIED SCIENCE & ENGINEERING



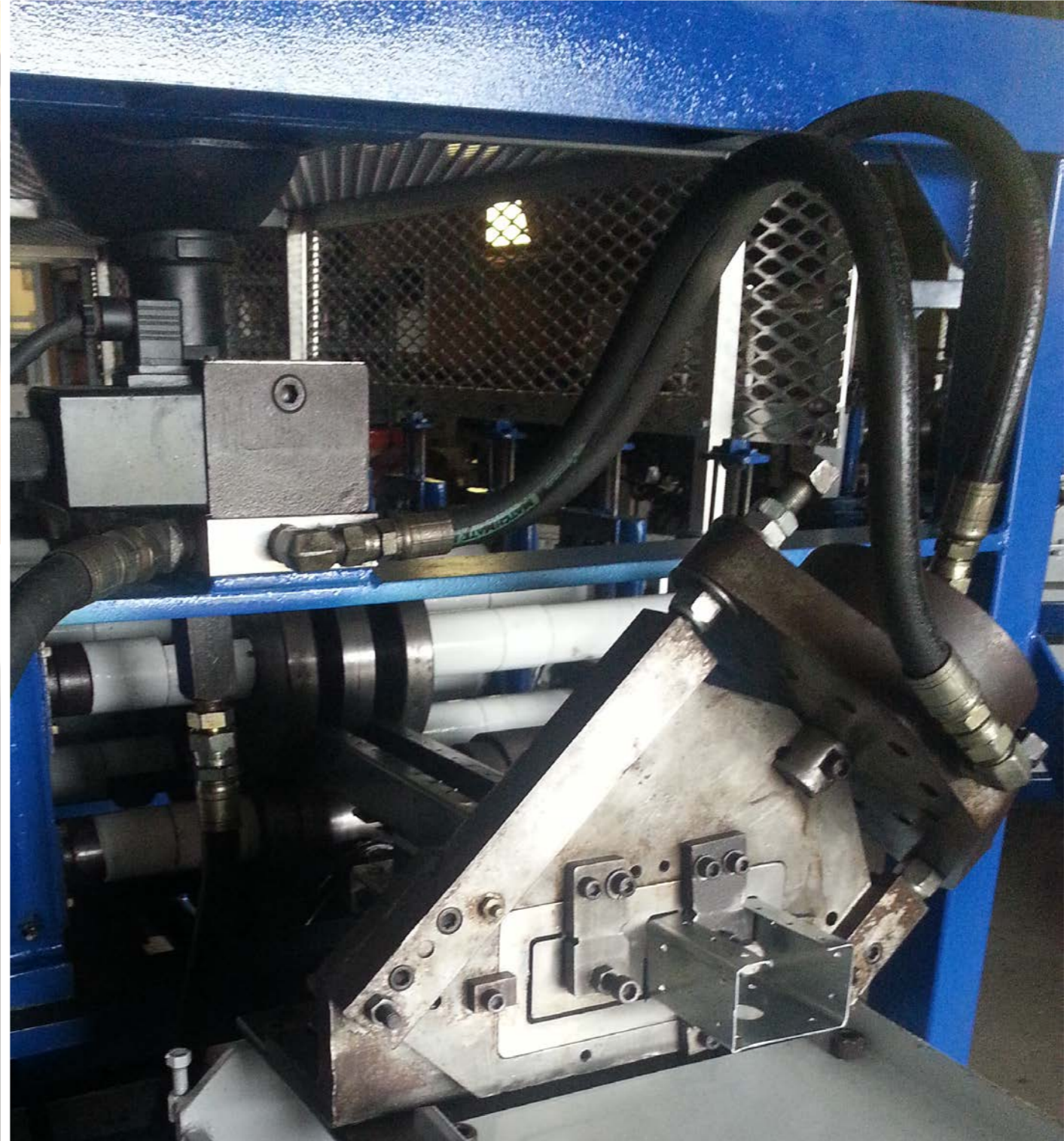
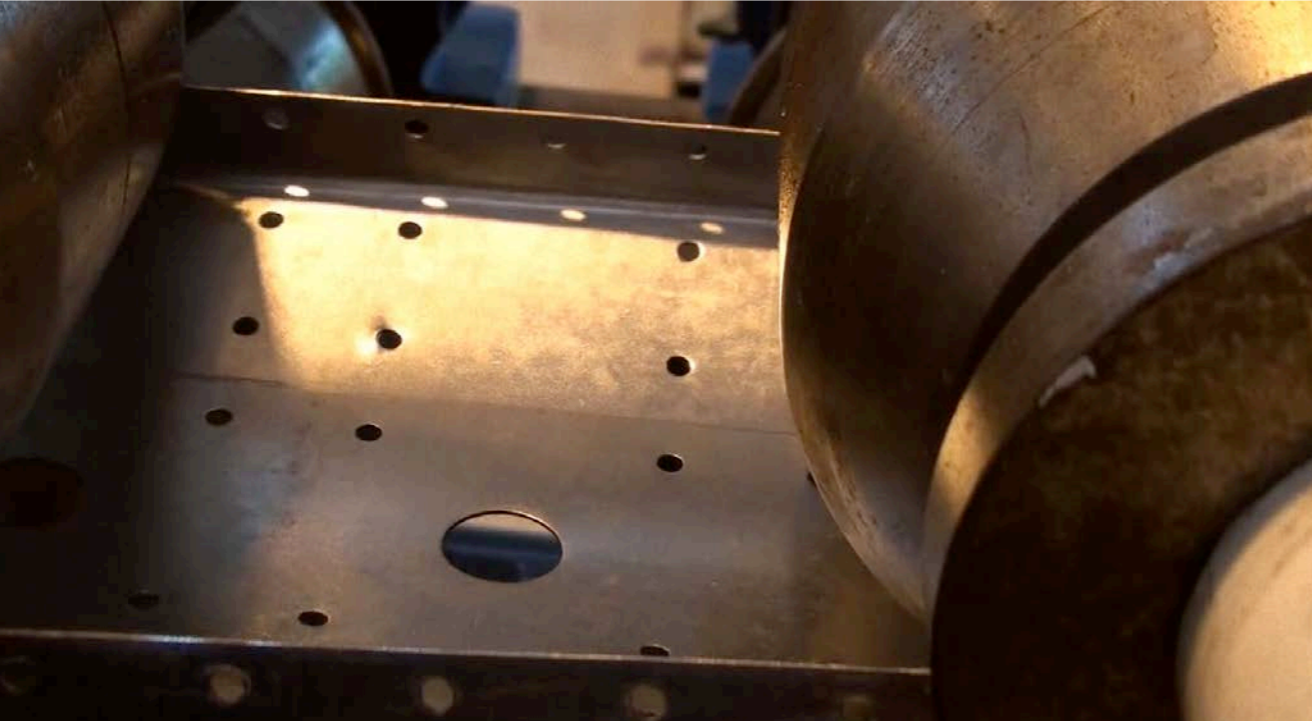
What is Light Gauge Steel (LGS) Framing?

Galvanized flat steel coils shaped by cold roll forming machines into studs (channel) and track.





What is Light Gauge Steel (LGS) Framing?





What is Light Gauge Steel (LGS) Framing?

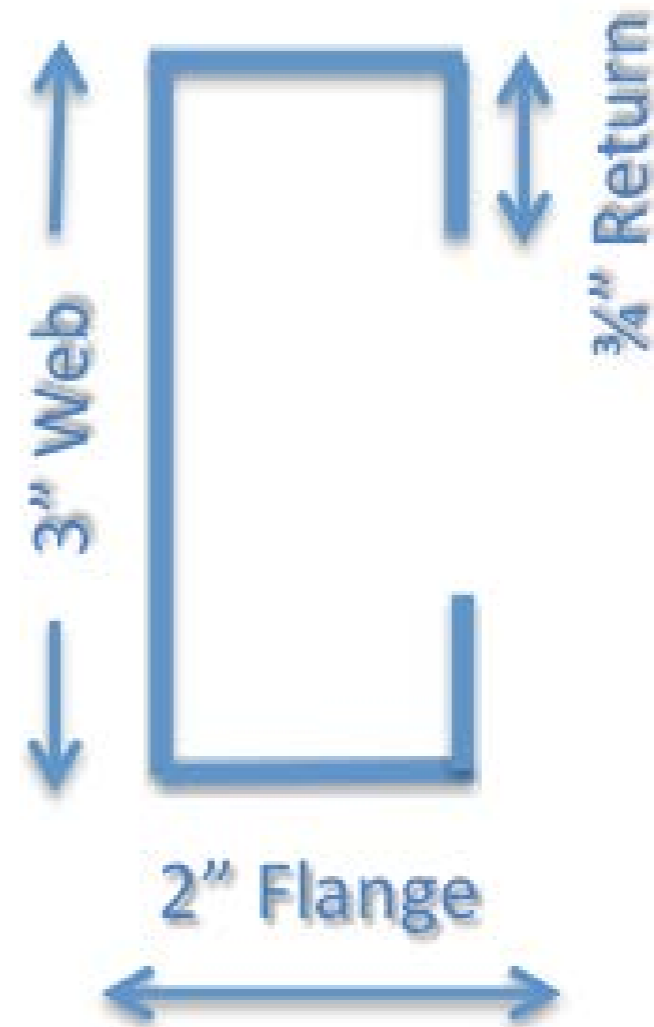
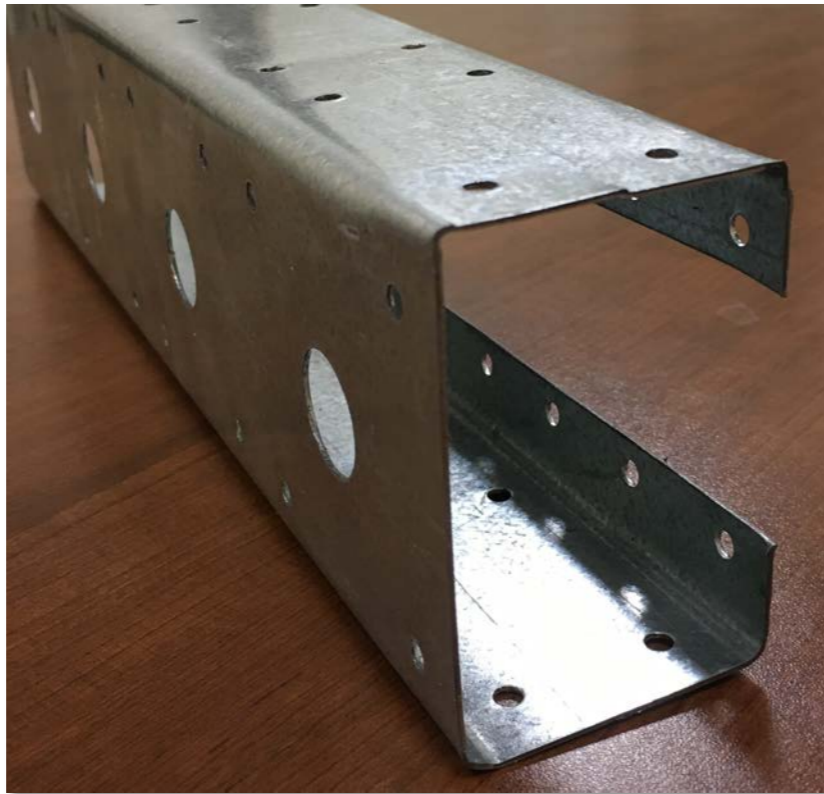




What is Light Gauge Steel (LGS) Framing?

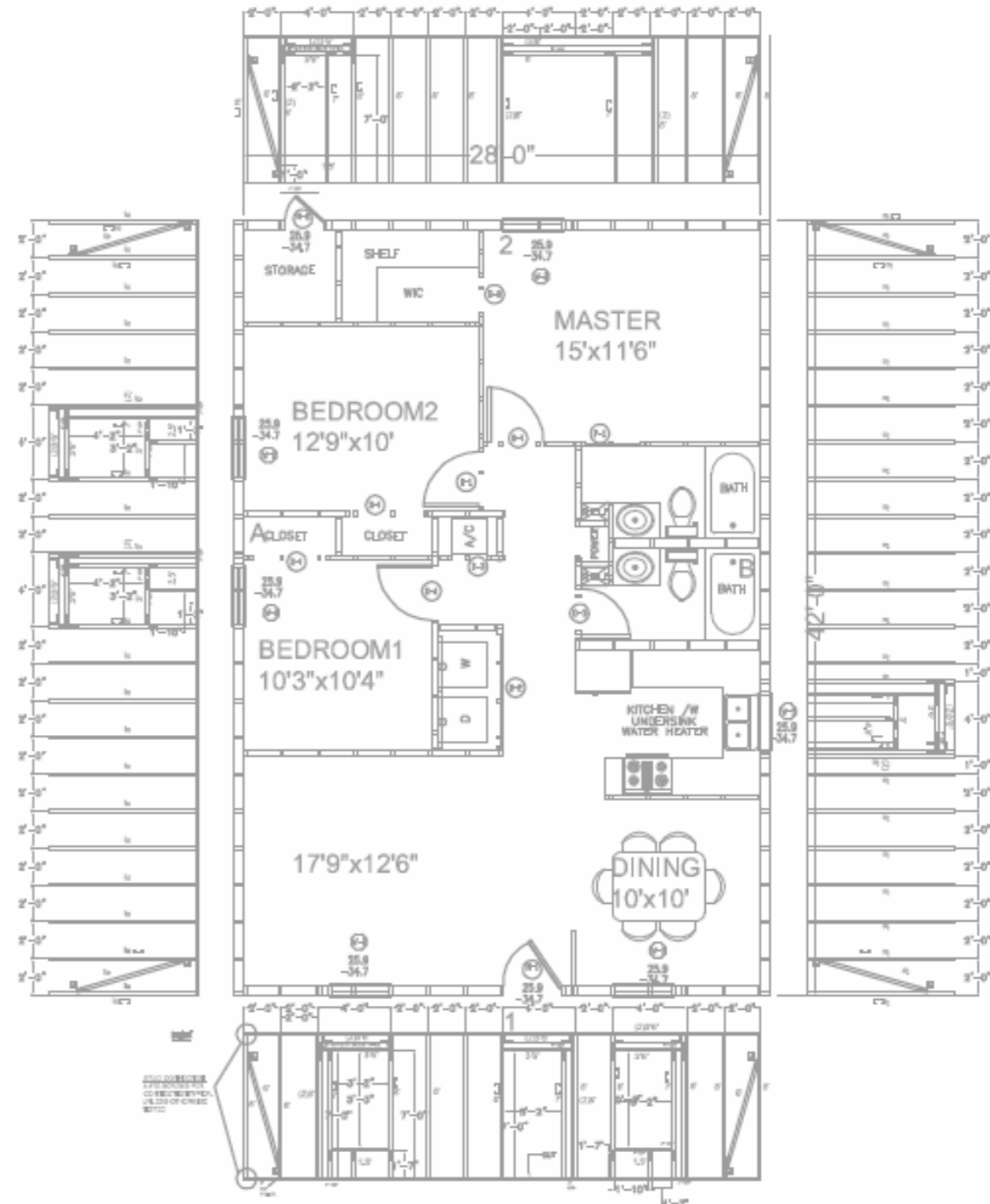


What is Light Gauge Steel (LGS) Framing?



Optimize LGS by integrating it at the forefront of design. What are the area conditions and building requirements?

- Repair/replacement resilience
- Seismic requirements
- Climate conditions
- Ecosystem

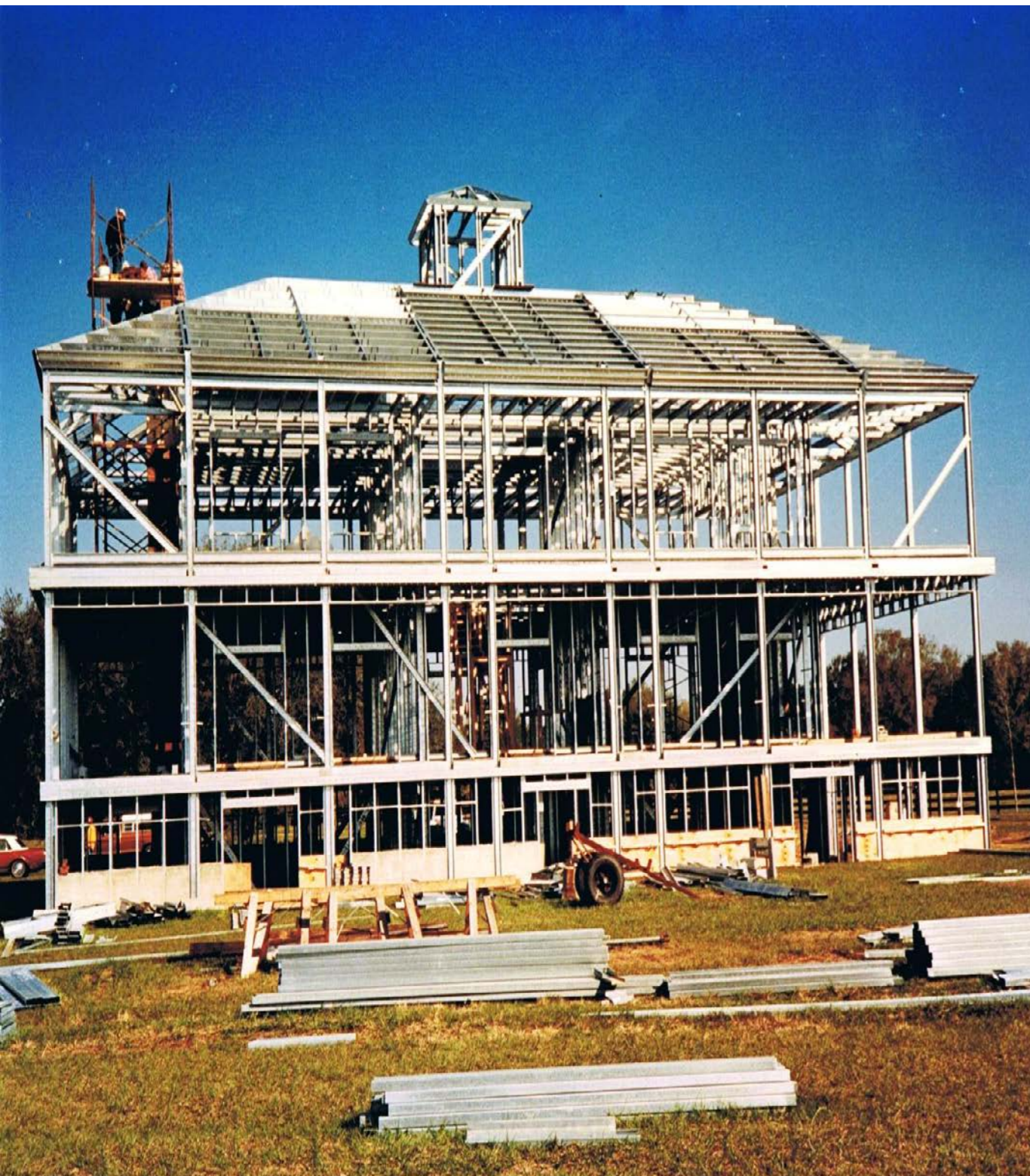


FLOOR PLAN, WALL SECTIONS, STUD PLACEMENT



LGS Building Application Examples

Residential





LGS Building Application Examples

Multi-Tenant





LGS Building Application Examples

Hotels and Multi-Story Buildings





LGS Building Application Examples

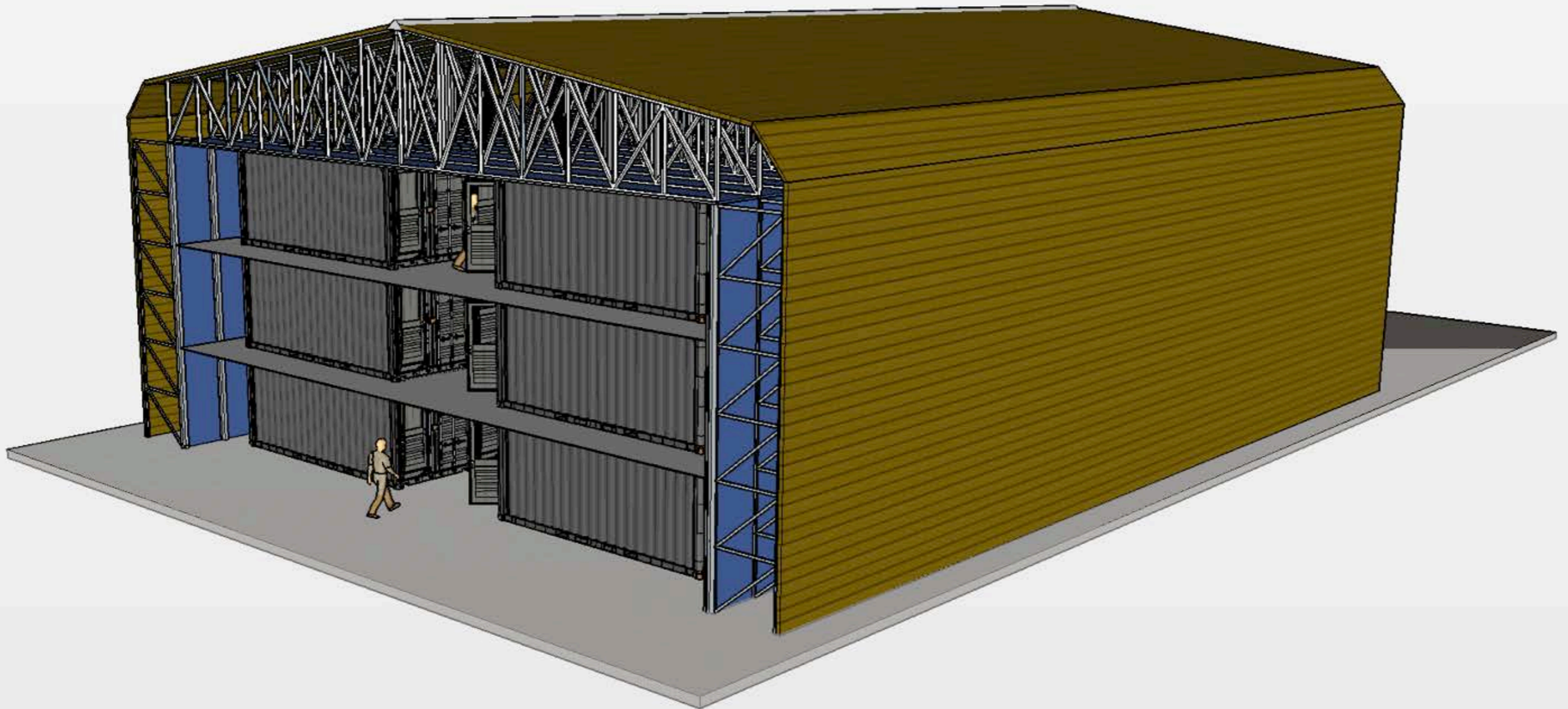
Industrial & Commercial





LGS Building Application Examples

Ballistics Protection



LGS Building Application Examples

Interior Remodeling



- LGS does not attract insects such as termites.
- With no moisture absorption there is no warping, mold, or mildew.



- Consistent material quality which also ensures a consistent quality of finishes.



- Shorter construction time results in faster repairs after a disaster, earlier occupancies and lowered financing costs.



Resilience in Strength

- LGS has the highest strength to weight ratio compared with other conventional materials such as wood and block.



- LGS components are lighter than wood and nestle together for compact shipping.
- LGS forming can be localized to a jobsite for large building projects.



- Wood wastage on jobsites ranges from 10-20% and is higher in some cases due to the poor quality of wood.
- Precut steel framing minimizes jobsite waste. Any remaining material can be sold as scrap.
- Steel is 100% recyclable without losing its properties and can be magnetically separated from other



Health and Life Safety Indoor Air Quality (IAQ)

- **LGS is inert and does not effect air quality**

Health and Life Safety

Fire Protection

- Steel is non combustible and does not contribute to the spread of fire. It will begin to fail at approximately $1,100^{\circ}\text{F}$
- Wood combusts at approximately 450°F





Health and Life Safety

Earthquake & Hurricane Resistance

- REISA Steel can be engineered to withstand winds in excess of 150mph.
- REISA Steel is laboratory tested to withstand earthquakes of a 10+ magnitude on the Richter scale.





Health and Life Safety

Earthquake & Hurricane Resistance

- 28,000 homes were destroyed when hurricane Andrew hit the Miami-Homestead, FL area with wind gust up to 200mph.
- This home was built with REISA Steel in the same area and endured no structural damage during the hurricane.





Health and Life Safety Reduced Insurance

- Structures framed with LGS qualify for a reduction in insurance premiums.





Thank You!

Thank you for your time!

Cleve Collins
Chief Executive Officer
REISA Corporation B.V.
Rise / Excel / Deliver
O: 404.479.7892 ext.700
M: 470.334.9342
F: 404.479.7892
Email: cleve@reisacorp.com
www.reisacorp.com
A Virtus 7 Company