Modular buildings need to be safe and cost-effective, but that's no easy task

Now you can make smarter improvements and achieve code compliance — even before shipping.

UL Solutions witnesses modular unit construction and oversees the operation of various building systems to help ensure that fire, life safety, electrical and security systems operate as designed in an emergency. We utilize a detailed plan review and rigorous inspection process that results in an objective report on compliance gaps so that you can make informed decisions about improvements before shipping.

Achieve compliance to construction code requirements for your modular building's life safety systems

Successfully navigating the complex issues of regional code requirements and emergency response tactics can prove challenging but, when executed correctly and at the right time, can save money. A key issue with constructing a modular building at an off-site location involves oversight: The local code official can't review or witness the critical systems and equipment located within walls or behind panels. UL Solutions performs customized inspections on modular buildings and equipment before they leave the factory to help ensure that each unit system performs the vital functions necessary to protect lives and enable business continuity.

UL Solutions will take these steps to help ensure code compliance for modular and traditional buildings:

Step 1 – Peer plan review
Step 2 – Factory inspections of units (on-site and remote)
Step 3 – Certificate of inspection for each factory-built unit
Step 4 (upon request) – Installation site review

Result: Fire, electrical life safety and security compliance to international codes and standards

By inspecting systems and equipment before the unit ships, our building inspection services provide peace of mind that fire and life safety systems have undergone objective inspection. Relevant codes and standards are based on both international and local regulations, such as:

- ICC building and fire code
- National Electrical Code® (NEC)
- NFPA 5000 — Building code
- NFPA 1 — Fire code
- NFPA 101 — Life safety code
- NFPA 855 — Stationary energy storage systems standard
- UL 3223, the Outline of Investigation for Data Center Certification

UL Solutions

Demonstrate your commitment to safety by joining UL Solutions

Across the world, building and fire code officials turn to UL Solutions for trusted, code-compliant solutions based on rigorous testing and inspection. We certify and inspect fire, electrical and life safety security product installations while providing in-depth knowledge of local, national and international codes and regulations. UL Solutions has an array of global locations with a full range of services from design to site inspection.

For modular and traditional buildings, UL Solutions offers a range of inspection services

Fire safety
- Occupancy classification or equipment designation
- Types of construction identification
- Site location limitations for unit height and coverage
- Energy storage systems (ESS) protection
- Emergency access routes and open spaces
- Fire compartmentation
- Openings in fire-rated walls and floors
- Smoke control and venting
- Interior finish surfaces

Life safety
- Exit systems
- Egress ramps
- Emergency and escape lighting
- Illumination and marking of means of egress
- Fire detection and early warning equipment
- Emergency procedures plan

Fire protection systems
- Portable fire extinguishers
- Sprinkler system
- Fire pump
- Standpipe and hose system

Security systems
- Intrusion alarm systems
- Access control equipment
- Closed-circuit TV
- Motion detectors
- Video surveillance system

FAQ

Where can you use the units after inspection?
Residential, commercial, agricultural, industrial, energy storage system (ESS), data centers, cryptocurrency mining units and many more locations.

Can UL Solutions provide a site certification for the units?
Yes, UL Solutions' field team can provide this service. However, if we find modifications or changes in the equipment or design, it can prove costly and may not obtain a label.

How can UL Solutions inspect all of my units even if they're not on-site?
UL Solutions can provide video inspection of future units once both UL Solutions and the manufacturing teams are satisfied with the equipment and the craftsmanship of the trades used for the installation, and the product certifications and quality assurance process are finalized.

Where do you offer these services?
We offer these services in all 50 U.S. states and internationally. We have internally trained staff and a network of resources with deep expertise in local and global regulations. Our teams have conducted inspections throughout Europe, Asia and North and South America.

What volume of units can you inspect?
One to millions — UL Solutions' team can inspect a single custom unit or daily production in the thousands.

For more information on UL Solutions' modular building auditing and inspection services, contact us at UL.com/contact-us.

UL Solutions

Safety. Science. Transformation.™