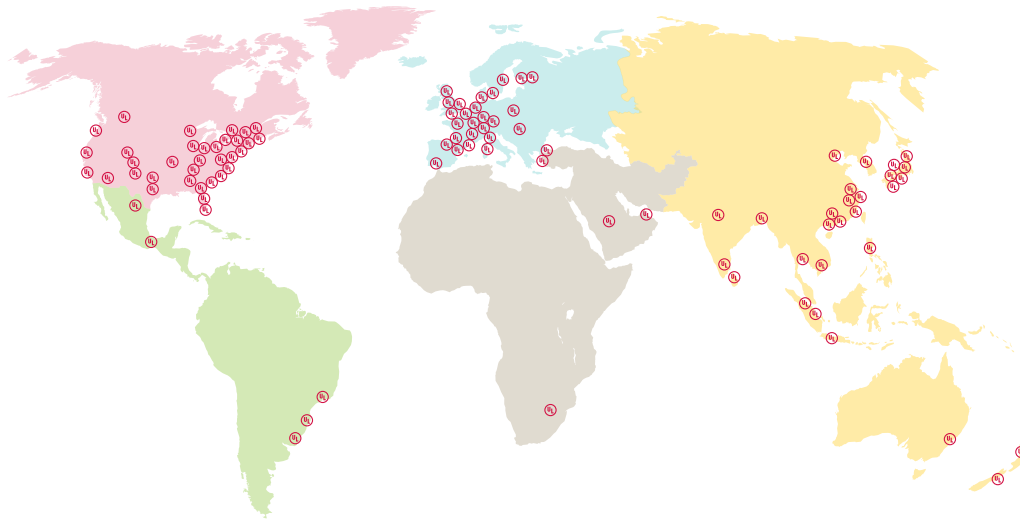# DOORS & HARDWARE
TESTING, CERTIFICATION & TRAINING

Around the globe, UL works to help customers, purchasers and policymakers navigate market risk and complexity. UL builds trust in the safety, security and sustainability of products, organizations and supply chains – enabling smarter choices and better lives. Our robust suite of offerings includes testing, inspection, auditing, certification, marketing claim verification, training, advisory services and software solutions. In all that we do, we apply science and expertise to enable the responsible design, production, marketing and purchase of the goods, solutions and innovations of today and tomorrow. To learn more about us, visit UL.com.

TEST LOCALLY, THINK GLOBALLY

UL is able to offer testing and certification to customers in the global marketplace using staff and resources located across Asia, Europe, the Middle East and North America. Regional testing laboratories and local staff allow customers to work with experienced UL staff to complete projects, meet time to market deadlines and communicate in local languages.

PROMOTING PRODUCT SAFETY

UL's association with fire safety, integrity, quality and performance is globally recognized. Passive fire protection products that carry the UL Mark gain a decisive competitive edge through the instant recognition the Mark provides.

Established in the United States in 1894, UL operates globally, offering a comprehensive range of services that help manufacturers gain the compliance and performance credentials they need to compete in the global marketplace.

PARTNERING WITH UL

Our services support the passive fire protection industry's need for reliable, accurate test results and certifications. The testing process is streamlined to control costs and accelerate time-to-market for our customers without compromising integrity or scientific excellence. In today's fast-moving business environment, UL's passive fire protection team adapts to stay at the forefront of fire safety advancements.

We offer flexible options for testing outside of UL facilities, including witness testing at third-party laboratories or at the manufacturer's facilities. Additionally, to simplify the design and testing process for manufacturers, UL offers customized testing solutions and a sensible system to facilitate product choices and replacements that correlate to the applicable standards.

TESTING AND CERTIFICATION OF DOOR PRODUCTS

UL evaluates a wide range of opening protective products for fire resistance and performance including swinging doors, door hardware, special-purpose fire door assemblies, rolling steel doors, elevator entrances, glazing, and more. Fire testing can be conducted with full test capabilities at UL global facilities or at partner laboratory location situated throughout North America, Europe, Middle East and Asia.

TESTING SERVICES

UL's testing services provide objective confirmation of product performance following a specific test method in controlled laboratory settings.

Fire Testing

UL offers testing and assessment services for fire doors and fire door hardware to various UL (UL 10B, UL 10C), British (current and previous editions of BS 476 Parts 22 and 23), Canadian (ULC/CAN-S104, ULC/CAN-S105 and ULC/CAN-S106) and European Standards (e.g. EN 1364-1, EN 1634-1 and EN 1634-3) as well as the IMO Fire Test Protocol.

Security and Ballistics

UL offers testing of materials, devices, and fixtures used to form bullet-resisting barriers which help protect against robbery, holdup, or an armed attack. This testing can also be used to determine the bullet resistance of building components, such as windows, walls, or barriers made out of bullet resistant materials.

UL tests and lists door hardware for security and access control related functions utilizing the UL 1034 and UL 294 Standards where appropriate for the product and its intended use.

Blast

Blast resistance can be another important attribute of door performance. These types of doors are typically deployed in military applications, laboratories and other critical infrastructure to mitigate a blast threat. ASTM F2247, Standard Test Method for Metal Doors Used in Blast Resistant Applications (Equivalent Static Load Method) and ASTM F2927, Standard Test Method for Door Systems Subject to Airblast Loadings are the standards widely specified and UL offers testing and certification services to both of these standards.

Smoke Control

Door assemblies are often expected to provide a measure of smoke control in today's buildings. The door assemblies are intended to act in conjunction with other smoke mitigation devices to prevent smoke from circulating through a structure during a fire event. UL offers customers the ability to evaluate various opening products for compliance with the requirements listed in building guidelines such as the International Building Code or NFPA 105. Certification is available for fire rated and non-fire rated assemblies.

Thermal Performance

UL tests doors for thermal efficiency for market compliance through product performance validation services. Each product undergoes testing procedures and lab protocols with oversight to help ensure the testing is performed per industry standards. For thermal efficiency, UL's lab simulates a door's insulating ability by calculating its solar heat gain coefficient (SHGC) and its U-factor value.

Severe Weather

Doors, windows and the exterior envelope must be designed to remain structurally sound and to resist severe weather conditions such as rain, snow, extreme hot and cold temperatures, wind borne debris, and high velocity winds from hurricanes and tornadoes. UL's building envelope performance testing services, with experienced and knowledgeable staff, understand the science behind the building envelope and provide expertise to help ensure performance of building envelope products, systems and structures to meet regulatory requirements and to protect brand value.

TESTING SERVICES *(continued)*

Door and Hardware Performance Testing

In addition to the rigors of fire testing and security certifications offered by UL, UL offers the ability to conduct performance testing of door hardware and door sets to widely recognized EN, BHMA and SDI test standards. Performance tests can include various endurance, strength and corrosion resistance tests to evaluate the product's ability to function throughout its intended lifetime. These performance tests can be conducted in one of UL's regional door hardware laboratories located in the UK, Greater China and North America or utilizing one of UL's Data Acceptance Programs.

Verification Testing

UL engineers and lab technicians will conduct specified testing and provide a data-only test report. This report will not include a conclusion about the data outcomes or statements of compliance.

Environmental Testing

UL helps the commercial opening industry capture value for their sustainability efforts. We assist in the advancement and recognition of sustainable products to drive purchaser clarity by bringing trusted transparency for your customers.

- **Environmental Product Declarations** - UL's Environmental Product Declarations (EPDs) can help customers understand a product's sustainable qualities and environmental repercussions.

- **UL GREENGUARD** - Products that earn GREENGUARD Certification have been scientifically proven to meet some of the world's most rigorous, third-party chemical emissions standards, helping to reduce indoor air pollution and the potential health risks of chemical exposure.

- **Environmental Claim Validation** - Environmental Claim Validations lend third-party credibility to single-attribute environmental claims, giving both manufacturers and their customer's peace of mind.

- **SPOT** - SPOT is a web based product sustainability information tool that facilitates the selection of credible green products for the design community. This tool helps to identify products by sustainable attributes, MasterFormat product codes and building rating system credits such as LEED v4 and the WELL Building Standard™. SPOT.ULPROSPECTOR.COM

TRAINING

UL offers technical training for the building and life safety industries by providing the educational resources needed to develop, manufacture, install and deploy safer products throughout the global marketplace.

New educational offerings are created on a consistent basis. *Please visit UL.com/blsttraining for a complete list.*

Customized Training Programs and Testing Solutions

A broad portfolio of training resources is available to help customers better understand fire testing methods, critical concepts in fire resistance testing and key performance criteria for different products. These training resources include self-guided eLearning sessions, live and recorded webinars with UL subject matter experts and customized in-person seminars developed for specific training needs.
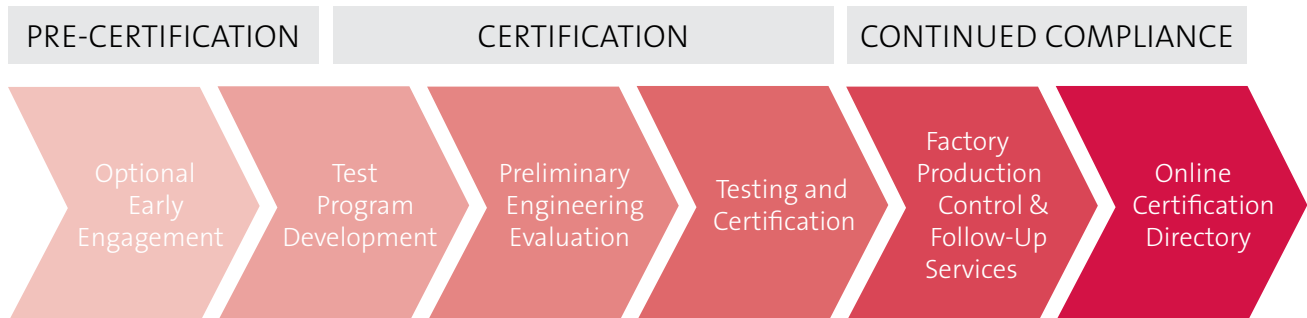
SAFETY CERTIFICATION

PRE-CERTIFICATION	CERTIFICATION	CONTINUED COMPLIANCE

Optional Early Engagement → Test Program Development → Preliminary Engineering Evaluation → Testing and Certification → Factory Production Control & Follow-Up Services → Online Certification Directory

FIELD SERVICES

Field Inspection

UL's Field Inspection services provide a solution for installed equipment and products that have active UL certification, but are not properly labeled with the UL Mark. In these cases, UL can provide an on-site inspection to allow such products or equipment to be field-labeled, saving time and costs associated with removal for relabeling due to factory labeling errors, inadvertent removal of the label, or products that have undergone minor modifications.

Field Evaluation

National, regional, city and other municipality regulatory requirements establish that fire doors and frames are certified or evaluated by a recognized third party before they can be approved for use. For products that do not have a certification or have been modified in the field, a UL Field Evaluation accomplishes this required evaluation. This process is for products that are already installed in a building.

RESOURCES

Architectural Chat (*www.ul.com/architects*) - Chat online with UL subject matter experts.

Fire Door Application Guide (*ul.com/doorguide*) - This guide is intended to assist code authorities, designers, and installers in determining the suitability of specific doors, windows and related hardware in a particular installation and use, and to address concerns related to fire, smoke, egress and windstorm related performance.

Online Certification Directory (*ul.com/database*) - UL's Online Directory is used and viewed by manufacturers, authorities, architects, designers, contractors and building owners globally for verification of a UL Certified product.

Product Spec ™ (*ul.com/productspec*) - A fast and easy way to access UL Certification information to achieve safe, sustainable, and code compliant installations. This next generation search engine allows a user to search, validate or confirm a wide range of UL certified construction materials, equipment and fire-resistance rated assemblies and systems.

EUROPE

Denmark
T: +45.44.85.65.65
E: EU.BuildingLifeSafety@ul.com

France
T: +33.1.60.19.88.00
E: EU.BuildingLifeSafety@ul.com

Germany
T: +49.69.489810.0
E: EU.BuildingLifeSafety@ul.com

Italy
T: +39.039.6410.101
E: EU.BuildingLifeSafety@ul.com

Poland
T: +48.22.336.33.39
E: EU.BuildingLifeSafety@ul.com

Spain
T: +34.93.368.13.00
E: EU.BuildingLifeSafety@ul.com

Sweden
T: +46.8.795.4370
E: EU.BuildingLifeSafety@ul.com

The Netherlands
T: +31.26.376.4800
E: EU.BuildingLifeSafety@ul.com

United Kingdom
T: +44.1483.302.130
E: EU.BuildingLifeSafety@ul.com

AMERICAS

Argentina
T: +54.11.4316.8200
E: info.ar@ul.com

Brazil
T: +55.11.3049.8300
E: info.br@ul.com

Canada
T: +1.866.937.3852
E : customerservice.ca@ul.com

Mexico
T: +52.55.3000.5400
E: info.mx@ul.com

United States
T: 877.UL.HELPS, 1.877.854.3577
E : cec@ul.com

ASIA PACIFIC

Australia
T: +61.1.8824.7775
E: customerservice.au@ul.com

China
E: customerservice.cn@ul.com

    Guangzhou
    T: +86.20.3213.1000

    Shanghai
    T: +86.21.6137.6300

    Suzhou
    T: +86.512.6808.6400

Hong Kong
T: +852.2276.9898
E: customerservice.hk@ul.com

India
T: +91.80.4138.4400
E: customerservice.in@ul.com

Japan
E: customerservice.jp@ul.com

    Ise
    T: +81.596.24.6717

    Tokyo
    T: +81.3.5293.6000

Korea
T: +82.2.2009.9100
E: customerservice.kr@ul.com

Malaysia
T: +603.5632.5922
E: customerservice.my@ul.com

New Zealand
T: +64.3.940.4400
E: customerservice.nz@ul.com

Singapore
T: +65.6274.0702
E: customerservice.sg@ul.com

Taiwan
T: +886.2.5559.8168
E: customerservice.tw@ul.com

Thailand
T: +66.2.207.2408
E: customerservice.th@ul.com

United Arab Emirates
T: +971-4-5585900
E: ULMiddleEast@UL.com

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