
UL Resources for Code Officials and Design Professionals

Presented by:
Bruce E. Johnson
Senior Regulatory Engineer, UL



Topics to Cover Today



Overview of UL

UL Fire Service Research Institute

UL standards and listing considerations

UL resources for code authorities:

- ✓ *On-line Certification Directory*
- ✓ *Product Spec™*
- ✓ *Code Link*
- ✓ *Market Surveillance*

UL Standards Technical Panel



Underwriters Laboratories



**Our Mission: *Working
for a Safer World
since 1894***



Underwriters Laboratories Overview



Founded in 1894
21 billion UL Marks applied
80,000 manufacturers
100,000+ product evaluations
700,000 inspection visits
21,000+ types of products evaluated by UL
150 UL inspection centers
100+ countries with UL customers
11,000+ employees



Firefighter Safety Research Institute

www.ulfirefightersafety.com



Firefighter Safety Research Institute

Impact Area



Commitment to the Fire Service

FSRI is a major component of UL's long-standing commitment to the safety of the fire service. We are proud to collaborate with fire departments and agencies around the country and all over the world. FSRI's goal is to execute groundbreaking research and generate life-saving knowledge that can be applied directly by the firefighters as they perform their duty.



Cutting-edge Research

Fires today are fundamentally different than they were 50 years ago. FSRI collaborates with researchers and agencies in the public and private sectors to conduct pioneering, full-scale experiments that help firefighters understand and anticipate new and dangerous situations they may encounter today that did not exist for previous generations.

Firefighter Safety Research Institute



Support & Infrastructure

With more than a century of experience and expertise, UL is the leader in fire safety testing, certification and research. Having access to UL's unmatched infrastructure, equipment and knowledge allows us to conduct one-of-a-kind, full-scale experiments that replicate real life conditions, and to generate the comprehensive scientific data needed to advance firefighting tactics.



Knowledge & Training

All of our scientific research and insights only make a difference when it actually reaches the firefighters we work so hard to make safer. Our insights and data are widely available to the fire service and research community through reports, articles and training programs using rich, easy to share media, in order to stimulate dialogue and accelerate results.

UL Research Projects

- 60+ research projects underway at any given time
- Awarded annual \$1M DHS Assistance to Firefighter Grants since 2006
- Work closely with fire service partners, including Chicago FD, FDNY, IAFF and IAFC
- Fire research usually results in training programs and/or report of findings
- Fire research reports and e-learning courses available online at no charge <http://ulfirefightersafety.com/training/>



UL- Firefighter Safety Research Institute

FSRI Updates

Recent Projects

- Without Really Knowing It: Firefighter Safety Assessments that Help Firefighters Understand and Avoid Fire and Response Situations**
May 16, 2019 - An Overview of 2019
- Improving Fire Safety by Understanding the Fire Performance of...**
May 16, 2019 - An Overview of 2019
- Effectiveness of the Gender-Neutral Notification and Response...**
May 16, 2019 - An Overview of 2019

VISIT THE BLOG >

- All Projects
- Latest News
- Training

Contact

Email: fsri@ul.com

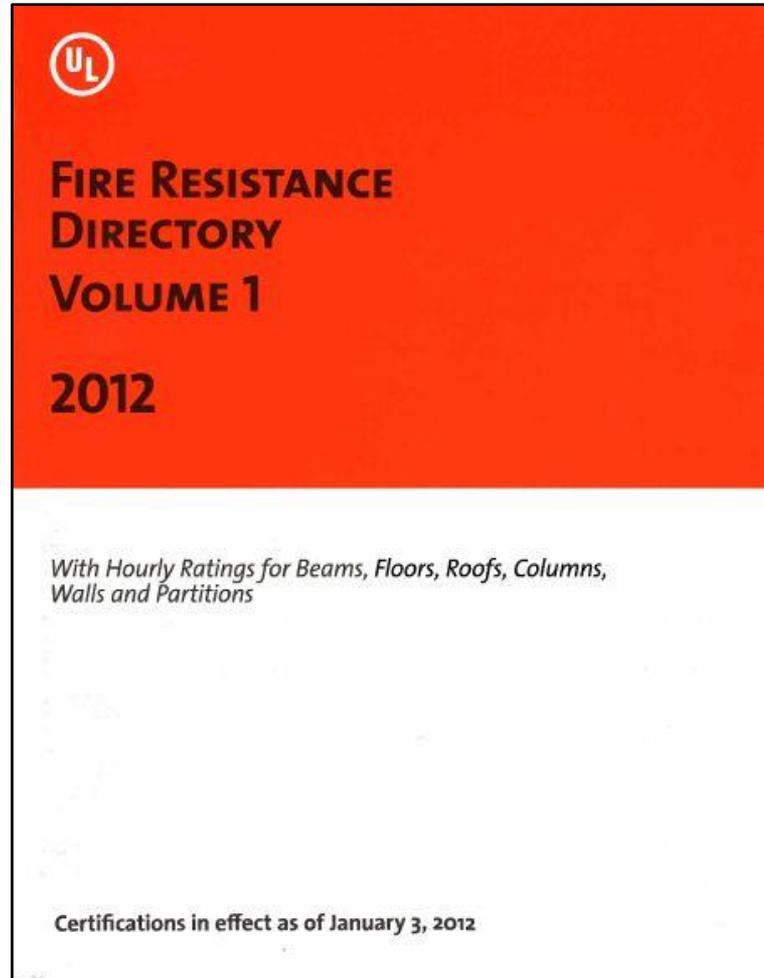
Connect with FSRI



Questions / Comments



UL Standards and Listing Considerations



UL Standards for Safety

- Over 1,200 published Standards for Safety
- Over 80% of UL Standards are American National Standards Institute (ANSI) accredited
- Developed using collaborative consensus process
- Not typically used by AHJs for code enforcement purposes



Product Investigation

Request for certification (listing) by UL

- Initial manufacturer request received
- UL provides application forms
- Investigation opened
- Successful investigation results in product listing
- A separate investigation may be needed to address problems
- Costs and time frame



Proprietary Information

UL respects our client's proprietary manufacturing and marketing information

Details on product construction, product manuals, test results, and ongoing investigation status cannot be divulged to outside parties

Listing information published in the UL Certifications Directory, On-line Certification Directory or UL Product Spec™ is considered “public information”



Factory Surveillance

Periodic inspections of certified products

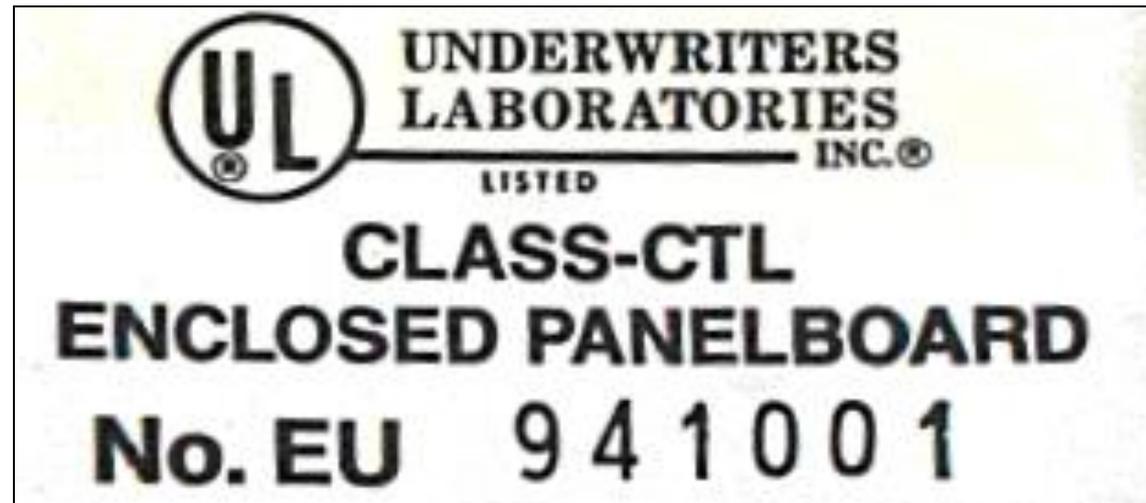
UL Marks are only applied at authorized factories



Listing and Labeling

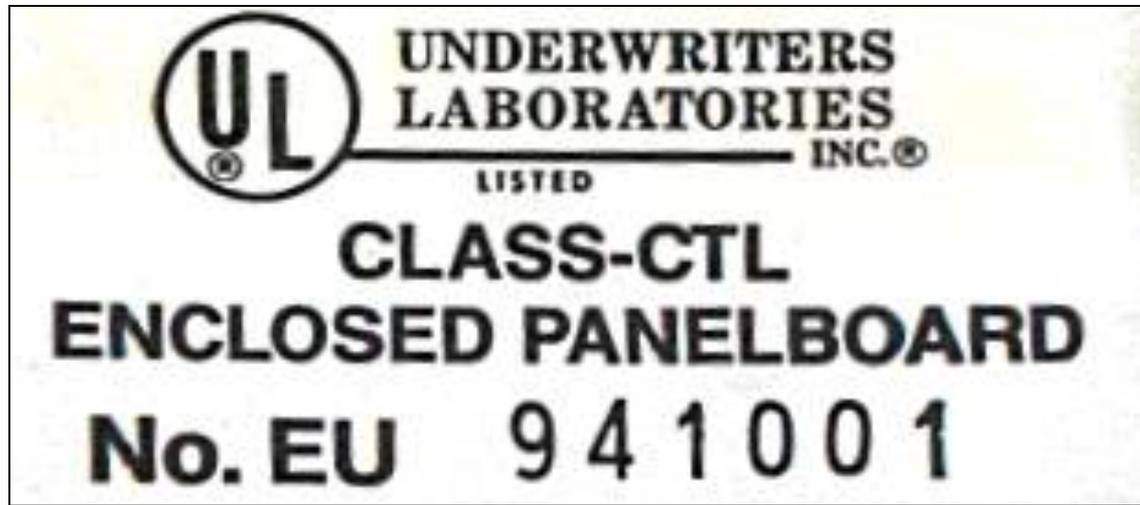
Look for the four element listing mark

- ✓ Underwriters Laboratories or UL logo
- ✓ “LISTED” in capital letters
- ✓ Product name
- ✓ Issue number or Control number



Listing and Labeling

Only products bearing the UL Mark are considered to be *Listed*



Options for Unlabeled Equipment

Field evaluation – UL evaluates
compliance with product standards

See the Resources Code Authorities
web pages for details



Anti-Counterfeiting Efforts

- Long standing partnership with US Customs
- 1,200+ US Customs officers trained
- 1,300 seizures, 40 million items, \$150 million
- Public notices warn of counterfeit goods



Questions / Comments

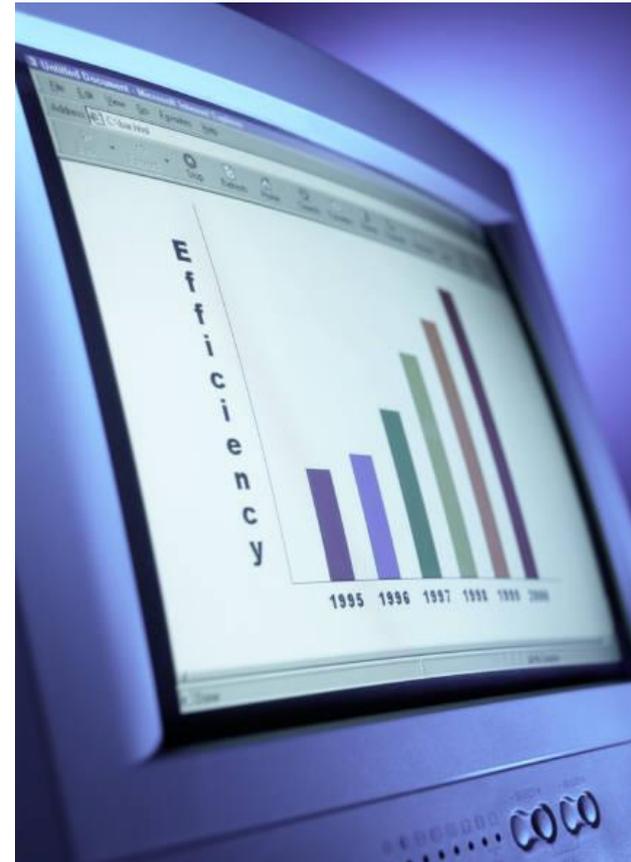


Listing Information

Online Certifications Database (OCD)

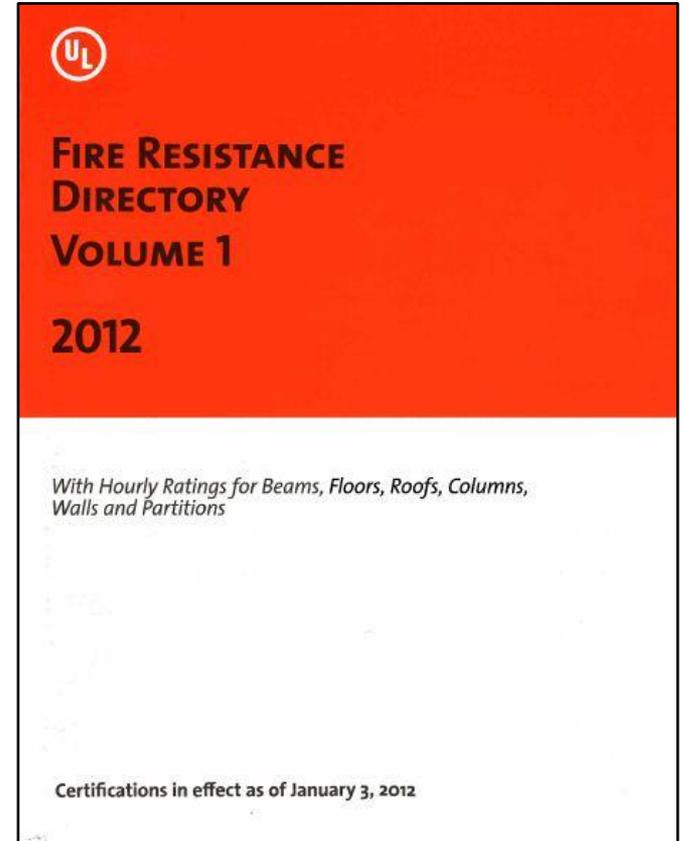
Product Spec™

Product directories may be ordered



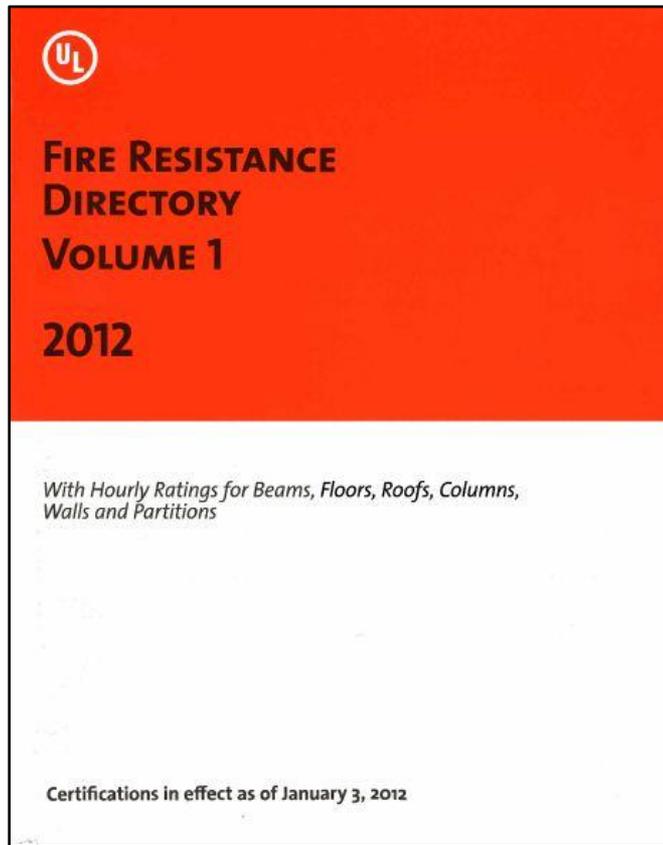
UL Resources for the Fire Service

Navigating the UL Directories



Navigating the UL Directories

Hard Copy



CD-ROM



Online

UL ONLINE CERTIFICATIONS DIRECTORY [Quick Guide](#) [Contact Us](#) [UL.com](#)

BEGIN A BASIC SEARCH

To begin a search, please enter one or more search criteria in the parameters below.

Company Name

City

U.S. State

U.S. Zip Code

Country

Region

Postal Code (non-US)

UL Category Code [\(help\)](#)

UL File Number [\(help\)](#)

Keyword

ABOUT THE OCD

You can use the UL Online Certification Directory to:

- Verify a UL Listing or Classification
- Verify a UL Listed product use
- Verify a product safety standard

Learn more with the [Quick Guide to the OCD](#)

SPECIFIC SEARCHES

LINKS OF INTEREST

[ULC Online Directories](#)
[Notice of Disclaimer](#)
[Order Printed Directories](#)
[Order Listing Cards](#)
[Index of Tradenames & Trademarks](#)
[Introduction: UL Listed and Classified Products](#)
[Introduction: UL Recognized Components](#)
[Introduction: Products Certified for Canada](#)

FEATURED LINKS



Guide Information

- Equipment, materials or systems included in the Category
- Intended use, restrictions or supplemental information that apply
- Standard(s) used to evaluate products under the Category
- Listing or Classification Mark information for the Category

NUMBERING SYSTEM FOR FIRE RATED ASSEMBLIES

Groups of Construction	TYPES OF PROTECTION								
	Membrane Protection						Direct Applied Protection		Unprotected
	000-099	100-199	200-299	300-399	400-499	500-599	600-699	700-899	900-999
Floors-Ceilings A, B*, or C* Concrete and Cellular Steel Floor	Concealed Grid Sys.	(Reserved)	Exposed Grid System	(Reserved)	Metal Lath	Gypsum Board	Miscellaneous	SFRM +	Unprotected
D, E*, or F* Concrete and Steel Floor Units	Concealed Grid Sys.	(Reserved)	Exposed Grid System	(Reserved)	Metal Lath	Gypsum Board	Mastic Coating	SFRM +	Unprotected
G, H*, or I* Concrete and Steel Joists	Concealed Grid Sys.	(Reserved)	Exposed Grid System	(Reserved)	Metal Lath	Gypsum Board	Miscellaneous	SFRM +	Unprotected
J or K Concrete	Concealed Grid Sys.	(Reserved)	Exposed Grid System	(Reserved)	Metal Lath	Gypsum Board	Miscellaneous	SFRM +	Unprotected
L or M* Wood Joist or Combination Wood and Steel Assemblies	Concealed Grid Sys.	(Reserved)	Exposed Grid System	(Reserved)	Metal Lath	Gypsum Board	Miscellaneous	SFRM +	Unprotected
Beams: N or O* for Floor Ceiling	Concealed Grid Sys.	(Reserved)	Exposed Grid System	Batts and Blankets or Mineral and Fiber Boards	Metal Lath	Gypsum Board	Mastic Coating	SFRM +	Unprotected
Roof-Ceiling: P, Q* or R*	Concealed Grid Sys.	(Reserved)	Exposed Grid System	(Reserved)	Metal Lath	Gypsum Board	Miscellaneous	SFRM +	Unprotected
Beams: S or T* Roof-Ceiling	Building Units	(Reserved)	Exposed Grid System	(Reserved)	Metal Lath	Gypsum Board	Mastic Coating	SFRM +	Unprotected
Wall & Partition: U, V or W*	Bldg. or Partition Panel Units	(Reserved)	Insulating Concrete	Wood Stud Gypsum Bd Lath &/or Plaster	Metal Stud Gypsum Bd Lath &/or Plaster	Misc.	Metal Panels Gypsum Bd Lath &/or Plaster	SFRM +	Masonry
Columns: X, Y or Z*	Building Units	Prefabricated	(Reserved)	Batts and Blankets or Mineral and Fiber Boards	Metal Lath & Plaster	Gypsum Board	Mastic Coating	SFRM +	(Reserved)

The prefix numbers with an asterisk (*) and the design numbers indicated as "Reserved" in the above table are for future expansion and to cater to new types of systems developed in the future.

+ SFRM denotes Spray-Applied Fire Resistive Materials



Designs

- Each design contains specific construction features
- Many designs contain various options and various ratings
- Must be followed exactly for rating to apply

Product Categories

- Each Product Category describes some generic family of products (e.g. Acoustical Materials)
- Each Product Category contains the manufacturers and designations of products tested and specified in the designs

Questions / Comments



UL Resources for the Fire Service

UL's Online Search Tools



UL's Online Search Tools

- ✓ Online Certifications Directory
- ✓ Product SpecTM
- ✓ Code Link



Online Certifications Directory

- Helps you achieve code compliance
- Is continuously updated
- Needs no password
- Is free – no charge for use

www.ul.com/database





UL is a global independent safety science company offering expertise across five key strategic businesses: Public Safety, Environment, Life & Health, Verification Services and University. Our breadth, established objectivity and proven history mean we are a symbol of trust and enable us to help provide peace of mind to all.

[➔ more](#)

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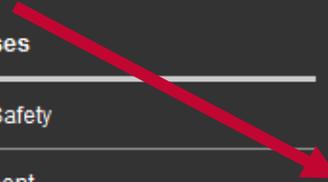
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ONLINE CERTIFICATIONS DIRECTORY

[Quick Guide](#) [Contact Us](#) [UL.com](#)

BEGIN A BASIC SEARCH

To begin a search, please enter one or more search criteria in the parameters below.

Company Name [\(options\)](#)

City

US State

US Zip Code

Country

Region

Postal Code (non-US)

UL Category Code [\(options\)](#)

UL File Number [\(help\)](#)

Keyword

ABOUT THE ONLINE CERTIFICATIONS DIRECTORY

You can use the UL Online Certification Directory to:

- Verify a UL Listing, Classification, or Recognition
- Verify a UL Listed product use
- Verify a UL Recognized component use
- Verify a product safety standard

Learn more with the [Quick Guide to the Online Certifications Directory](#)

SPECIFIC SEARCHES

FEATURED LINKS

UL Alarm
Services
Search

UL Code
Correlation
Database





Online Certifications Directory Quick Guide

Welcome to the UL Online Certifications Directory. You may use the UL Online Certifications Directory to:

- Verify a UL Certification, Classification, or Recognition
- Verify a UL Listed product use
- Verify a UL Recognized component use
- Verify a product safety standard

Search The UL Online Certification Directory Using:

General Searches

- [Company name/location and/or Keywords](#)
- [Standard Number](#)
- [UL File Number](#)
- [UL Category Code](#)

Specific Searches

- [Appliance Wiring Material \(AWM\)](#)
- [Authorized Label Supplier Label Type](#)
- [Component Supplier](#)
- [Components for Transportation Applications](#)
- [Fire-resistance-rated Systems & Products](#)
- [Food Safety Equipment](#)
- [Medical Management Systems Registered Firms](#)
- [Sprinkler Identification Number \(SIN\)](#)

To begin, navigate to <http://www.ul.com/>.

To access the UL Online Certifications Directory, click "Online Certifications Directory" located in the grey footer at the bottom of the page. Or, for direct access, enter the quick access URL in your web browser -- <http://www.ul.com/database>





BEGIN A BASIC SEARCH

To begin a search, please enter one or more search criteria in the parameters below.

Company Name (options)	<input type="text"/>
City	<input type="text"/>
US State	<input type="text" value="Select a state"/>
US Zip Code	<input type="text"/>
Country	<input type="text" value="Select a country"/>
Region	<input type="text" value="Select a region"/>
Postal Code (non-US)	<input type="text"/>
UL Category Code (options)	<input type="text"/>
UL File Number (help)	<input type="text"/>
Keyword	<input type="text" value="Rotisserie"/>
<input type="button" value="SEARCH"/> <input type="button" value="CLEAR"/>	

ABOUT THE ONLINE CERTIFICATIONS DIRECTORY

You can use the UL Online Certification Directory to:

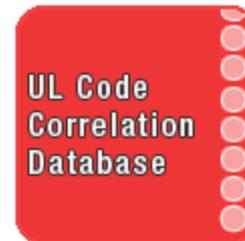
- Verify a UL Listing, Classification, or Recognition
- Verify a UL Listed product use
- Verify a UL Recognized component use
- Verify a product safety standard

Looking for ULC certifications? Go to the [ULC Online Directories](#)

Learn more with the [Quick Guide to the Online Certifications Directory](#)

SPECIFIC SEARCHES

FEATURED LINKS





Search results

You may choose to [Refine Your Search.](#)



Company Name	Category Name	Link to File
AIRLUX ELECTRICAL CO LTD	Household Cooking Appliances	KNUR.E142889
AIRLUX ELECTRICAL CO LTD	Household Cooking Appliances Certified for Canada	KNUR7.E142889
ALTO-SHAAM INC	Commercial Cooking Appliances	KNGT.E52279
ALTO-SHAAM INC	Commercial Cooking Appliances Certified for Canada	KNGT7.E52279
ALTO-SHAAM INC	Commercial Cooking Appliances with Integral Systems for Limiting the Emission of Grease-laden Air	KNLZ.E180237
ALTO-SHAAM INC	Commercial Cooking Appliances with Integral Systems for Limiting the Emission of Grease-laden Air Certified for Canada	KNLZ7.E180237
ALTO-SHAAM INC	Commercial Cooking, Rethermalization and Powered Hot-food-holding and -Transport Equipment	TSQT.E159360
AROMA HOUSEWARES CO	Household Cooking Appliances	KNUR.E132091
BROASTER CO L L C	Commercial Cooking Appliances	KNGT.E40821
BROASTER CO L L C	Commercial Cooking Appliances Certified for Canada	KNGT7.E40821
Page: 1 2 3 4 5 6 7 8 9		



Model number information is not published for all product categories. If you require information about a specific model number, please contact [Customer Service](#) for further assistance.





UL Category Code: [More information on UL Category Codes](#)

UL File Number: [More information on UL File Numbers](#)

Company Name:

U.S. State:

U.S. Zip Code:

Canadian Province:

Postal Code (non-US):

Country:

Region:

Registration Standard:

Keyword: 

Refine your search for Fire Resistive Hourly Ratings or Companies

Fire Resistive Hourly Rating:

Company Name within Fire Resistive System, Design, or Assembly:





Search results

You may choose to [Refine Your Search](#).

Company Name	Category Name	Link to File
ALTO-SHAAM INC	Commercial Cooking Appliances	KNGT.E52279
ALTO-SHAAM INC	Commercial Cooking Appliances Certified for Canada	KNGT7.E52279
ALTO-SHAAM INC	Commercial Cooking Appliances with Integral Systems for Limiting the Emission of Grease-laden Air	KNLZ.E180237
ALTO-SHAAM INC	Commercial Cooking Appliances with Integral Systems for Limiting the Emission of Grease-laden Air Certified for Canada	KNLZ7.E180237
ALTO-SHAAM INC	Commercial Cooking, Rethermalization and Powered Hot-food-holding and -Transport Equipment	TSQT.E159360
BROASTER CO L L C	Commercial Cooking Appliances	KNGT.E40821
BROASTER CO L L C	Commercial Cooking Appliances Certified for Canada	KNGT7.E40821
CLEVELAND RANGE L L C	Commercial Cooking Appliances	KNGT.E35238
CLEVELAND RANGE L L C	Commercial Cooking Appliances Certified for Canada	KNGT7.E35238
GILES ENTERPRISES INC	Commercial Cooking Appliances	KNGT.E27594

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UL Category Code: [More information on UL Category Codes](#)

UL File Number: [More information on UL File Numbers](#)

Company Name:

U.S. State:

U.S. Zip Code:

Canadian Province:

Postal Code (non-US):

Country:

Region:

Registration Standard:

Keyword: 

Refine your search for Fire Resistive Hourly Ratings or Companies

Fire Resistive Hourly Rating:

Company Name within Fire Resistive System, Design, or Assembly:



UL Category Code (Guide Information)

Provides details on UL product categories

- ✓ Products covered
- ✓ Considerations and limitations
- ✓ Intended installation standard
- ✓ Standard used
- ✓ Listing Mark composition





Search results

You may choose to [Refine Your Search.](#)

Company Name	Category Name	Link to File
Guide Information	Cooking Appliances, Wood Fired	LCJX.GuideInfo
Guide Information	Cooking Appliances, Wood Fired Certified for Canada	LCJX7.GuideInfo
Guide Information	Gas-Wood-fired Food Service Equipment	LGRC.GuideInfo
Guide Information	Gas-Wood-fired Food Service Equipment Certified for Canada	LGRC7.GuideInfo
Guide Information	Specialty Heating Appliances	LVTT.GuideInfo
Guide Information	Specialty Heating Appliances Certified for Canada	LVTT7.GuideInfo

Model number information is not published for all product categories. If you require information about a specific model number, please contact [Customer Service](#) for further assistance.

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LCJX.GuideInfo
Cooking Appliances, Wood Fired

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[Heating Appliances] Cooking Appliances, Wood Fired

[See General Information for Heating Appliances](#)

USE AND INSTALLATION

This category covers wood-fired cooking appliances, including broilers, ranges, rotisseries, ovens, and the like, as identified in the individual certifications, and intended for use in commercial establishments such as restaurants or for outdoor residential use. These appliances are intended to burn solid wood only, including particulate wood products. Some equipment may be provided with door assemblies, floor protectors and wall shields, adjustable flue-gas dampers, or other optional features as specified in the manufacturer's installation and operating instructions.

This equipment is intended to be installed in accordance with appropriate installation standards, such as the current editions of:

- ANSI/NFPA 96, "Ventilation Control and Fire Protection of Commercial Cooking Operations"
- ANSI/NFPA 211, "Chimneys, Fireplaces, Vents, and Solid Fuel-Burning Appliances"
- ANSI/NFPA 70, "National Electrical Code" (NEC)
- "Uniform Mechanical Code"
- "International Mechanical Code"
- "International Residential Code"
- Local codes

Installation is intended to be accomplished by a qualified agency - one who is engaged in, and is responsible for (or is thoroughly familiar with) the installation and operation of solid-fuel-burning heating and/or cooking appliances and who is experienced in such work, familiar with all precautions required, and has complied with all the requirements of the Authority Having Jurisdiction.



Installation is intended to be in strict accordance with the markings on the appliance and the manufacturer's installation instructions furnished with the appliance, including (as applicable) markings and instructions pertaining to clearances, types of adjacent surfaces, and proper vent installation. Equipment suitable for built-in installation, side-by-side mounting, or stacking is indicated in the installation instructions. Some equipment is intended to be placed on noncombustible floors, or on combustible floors covered with an insulating, noncombustible floor protector as specified in the manufacturer's installation instructions, ANSI/NFPA 96 and ANSI/NFPA 211.

All equipment, but especially equipment that may emit grease-laden vapors, is intended to be provided with an exhaust ventilating system in accordance with ANSI/NFPA 96. See Exhaust Hoods with Exhaust Dampers ([YXZR](#)), Exhaust Hoods Without Exhaust Dampers ([YYCW](#)) or Grease Ducts for Restaurant Cooking Appliances ([YYGQ](#)). Exhaust hood assemblies covered under these categories are intended to be installed in accordance with the manufacturer's installation instructions and ANSI/NFPA 96 and the NEC, as applicable.

All exhaust hoods are marked relative to minimum exhaust airflow and maximum supply airflow directed into the hood and/or out the bottom (if provided). Airflow rates are established under draft-free laboratory conditions. Greater exhaust and/or lesser supply airflow rates may be required for each specific installation to obtain complete vapor and smoke removal.

FACTORS NOT INVESTIGATED

The structural and sanitation properties of the appliance, the toxicity of the products of combustion, the physiological effects on persons consuming food products prepared or served by use of these appliances, the structures in which the appliance may be installed, and the toxicity of coatings have not been investigated.



Questions / Comments





Introducing UL Product Spec™

- Responsive Web site-Right sizes to your screen size, smartphone, tablet or PC
- Works on all web connected devices regardless of platform or OS
- Includes Electrical Construction, Fire and Building Materials and Systems



UL Product Spec™

No charge to access

Find, specify or verify UL certified building products, fire resistance designs, through-penetrations and more

Updated daily

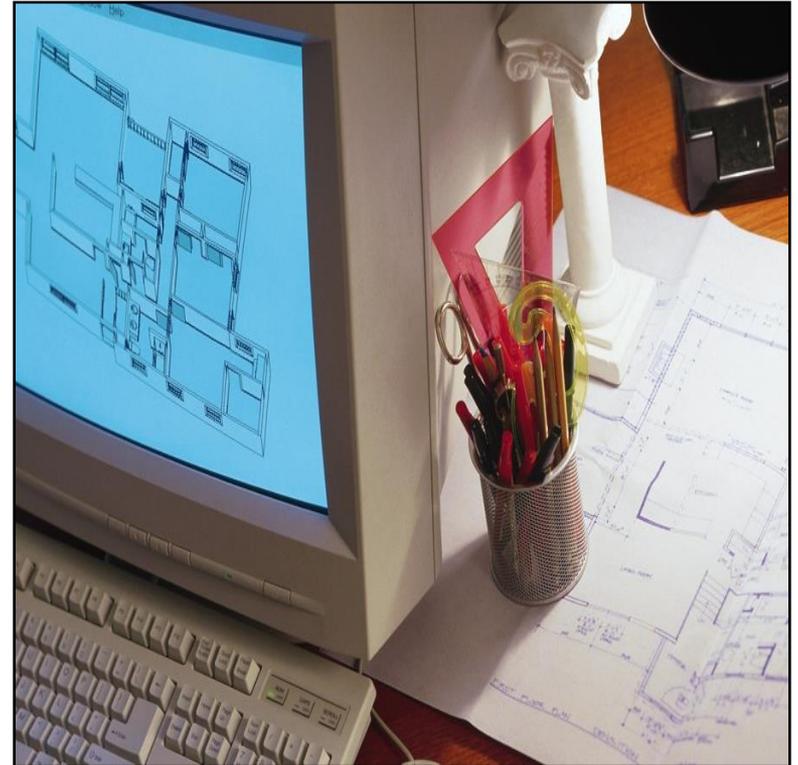
Easy to use

<http://www.ul.com/productspec>



UL Product Spec™

Searching for
Information on
Fire-Resistance-
Rated Construction





Fire Rated Assemblies (BXUV)

The summarized form of the test assembly is identified by an alphanumeric design number. The prefix letter designates the group of construction, the first number designates the type of protection and the other numbers and letters identify the particular assembly.

NUMBERING SYSTEM FOR FIRE RATED ASSEMBLIES

Groups of Construction	TYPES OF PROTECTION								
	Membrane Protection						Direct Applied Protection		Unprotected
	000-099	100-199	200-299	300-399	400-499	500-599	600-699	700-899	900-999
Floors-Ceilings: A or B* Concrete and Cellular Steel Floor C - Glazing Systems	Concealed Grid Sys.	(Reserved)	Exposed Grid System	(Reserved)	Metal Lath	Gypsum Board	Misc.	SFRM+	Unprotected
D, E*, F* Concrete and Steel Floor Units	Concealed Grid Sys.	(Reserved)	Exposed Grid System	Mineral and Fiber Boards	Metal Lath	Gypsum Board	Mastic and Intumescent Coatings	SFRM+	Unprotected
G, H*, or I* Concrete and Steel Joists	Concealed Grid Sys.	(Reserved)	Exposed Grid System	Mineral and Fiber Boards	Metal Lath	Gypsum Board	Misc.	SFRM+	Unprotected
J or K Concrete	Concealed Grid Sys.	(Reserved)	Exposed Grid System	Mineral and Fiber Boards	Metal Lath	Gypsum Board	Misc.	SFRM+	Unprotected
L or M Wood Joist or Combination Wood and Steel Assemblies	Concealed Grid Sys.	(Reserved)	Exposed Grid System	(Reserved)	Metal Lath	Gypsum Board	Misc.	SFRM+	Unprotected



Roof-Ceiling: P, Q* or R*	Concealed Grid Sys.	(Reserved)	Exposed Grid System	Mineral and Fiber Boards	Metal Lath	Gypsum Board	Misc.	SFRM+	Unprotected
Beams: S or T* for Roof-Ceiling	Building Units	(Reserved)	Exposed Grid System	Mineral and Fiber Boards	Metal Lath	Gypsum Board	Mastic and Intumescent Coatings	SFRM+	Unprotected
Wall and Partition: U, V or W	Building or Partition Panels Units	(Reserved)	Insulating Concrete	Wood Stud, Gypsum Board, Lath &/or Plaster	Metal Stud, Gypsum Board, Lath &/or Plaster	Misc.	Metal Panels, Gypsum Board, Lath &/or Plaster	SFRM+	Masonry
Columns: X, Y or Z*	Building Units	Prefabricated	Mat Materials	Batts and Blankets or Mineral and Fiber Boards	Metal Lath & Plaster	Gypsum Board	Mastic and Intumescent Coatings	SFRM+	Masonry

The prefix numbers with an asterisk (*) and the design numbers indicated as "Reserved" in the above table are for future expansion and to cater to new types of systems developed in the future.

+ SFRM denotes Spray-Applied Fire Resistive Materials

[View the UL Guide Information for Fire Resistance Designs \(BXUV\).](#)

[View the UL Guide Information for Fire Resistance Designs Certified for Canada \(BXUV7\).](#)

How to use this table to find UL Fire Resistive Design No.:

If you know the exact Design Number, enter this number (i.e. U351, P907, X520) in the available Fire Resistive Design field and click "Search".

If you do not know the exact Design Number, use the above Numbering System to refine your search options by following these steps:

- Choose the type of construction (i.e. column, wall, roof-ceiling, etc) from the first column, "Groups of Constructions". This will determine the alpha component necessary for your search (i.e. A, U, X, etc.)
- Follow along the respective row until you find the type of Protection (i.e. gypsum board, SFRM, masonry, unprotected, etc.) applicable to your construction then proceed to the top of that column to obtain the numeric components (range of numbers) necessary for your search (i.e. 400-499, 500-599, etc.).
- In the Fire Resistive Design search field, enter the alpha numeric component followed by the first number in the numeric component, then the wildcard * (i.e. U4*, X5*, etc.).
- Click Search.
- The search results will provide all Fire Resistive Design Numbers in the range provided (i.e. U400 . U499). Choose to view each Design individually by clicking the link in the "Link to File" column or choose to "Refine Your Search"
- Refine your search using key words such as 2 hr, vapor barrier, or recessed light.



UL Product Spec™



UL PRODUCT SPEC™

Quickly find, specify, or verify UL Certified products for your projects.

1. HOW DO YOU WANT TO SEARCH?

2. RESULTS

- > Installation Code
- > Product Type
- > Products, Systems or Assemblies
- > UL Product Category Code
- > Master Format Number



UL Product Spec™



UL PRODUCT SPEC™

Quickly find, specify, or verify UL Certified products for your projects.

1. HOW DO YOU WANT TO SEARCH?

2. RESULTS

Products, Systems or Assemblies

Electrical

Building or Fire Systems

Back



UL Product Spec™



UL PRODUCT SPEC™

Quickly find, specify, or verify UL Certified products for your projects.

1. HOW DO YOU WANT TO SEARCH?

2. RESULTS

Building or Fire Systems

Fire Protection Systems

Commercial Cooking

Elevators

Fire Rated Walls, Floors, Beams and Columns

Firestop Systems

Passive Systems

Roofing

Windstorm Rated Products

Egress Equipment

Green Buildings



UL Product Spec™



UL PRODUCT SPEC™

Quickly find, specify, or verify UL Certified products for your projects.

1. HOW DO YOU WANT TO SEARCH?

2. RESULTS

Fire Rated Walls, Floors, Beams and Columns

Search by Assembly Number

Search with Specific Parameters

[Back](#)



UL Product Spec™

Sample Search - Accessing a design if design number is known

- Design No. L501



NUMBERING SYSTEM FOR FIRE RATED ASSEMBLIES

Groups of Construction	TYPES OF PROTECTION								
	Membrane Protection						Direct Applied Protection		Unprotected
	000-099	100-199	200-299	300-399	400-499	500-599	600-699	700-899	900-999
Floors-Ceilings A, B*, or C* Concrete and Cellular Steel Floor	Concealed Grid Sys.	(Reserved)	Exposed Grid System	(Reserved)	Metal Lath	Gypsum Board	Miscellaneous	SFRM +	Unprotected
D, E*, or F* Concrete and Steel Floor Units	Concealed Grid Sys.	(Reserved)	Exposed Grid System	(Reserved)	Metal Lath	Gypsum Board	Mastic Coating	SFRM +	Unprotected
G, H*, or I* Concrete and Steel Joists	Concealed Grid Sys.	(Reserved)	Exposed Grid System	(Reserved)	Metal Lath	Gypsum Board	Miscellaneous	SFRM +	Unprotected
J or K Concrete	Concealed Grid Sys.	(Reserved)	Exposed Grid System	(Reserved)	Metal Lath	Gypsum Board	Miscellaneous	SFRM +	Unprotected
L or M* Wood Joist or Combination Wood and Steel Assemblies	Concealed Grid Sys.	(Reserved)	Exposed Grid System	(Reserved)	Metal Lath	Gypsum Board	Miscellaneous	SFRM +	Unprotected
Beams: N or O* for Floor Ceiling	Concealed Grid Sys.	(Reserved)	Exposed Grid System	Batts and Blankets or Mineral and Fiber Boards	Metal Lath	Gypsum Board	Mastic Coating	SFRM +	Unprotected
Roof-Ceiling: P, Q* or R*	Concealed Grid Sys.	(Reserved)	Exposed Grid System	(Reserved)	Metal Lath	Gypsum Board	Miscellaneous	SFRM +	Unprotected
Beams: S or T* Roof-Ceiling	Building Units	(Reserved)	Exposed Grid System	(Reserved)	Metal Lath	Gypsum Board	Mastic Coating	SFRM +	Unprotected
Wall & Partition: U, V or W*	Bldg. or Partition Panel Units	(Reserved)	Insulating Concrete	Wood Stud Gypsum Bd Lath &/or Plaster	Metal Stud Gypsum Bd Lath &/or Plaster	Misc.	Metal Panels Gypsum Bd Lath &/or Plaster	SFRM +	Masonry
Columns: X, Y or Z*	Building Units	Prefabricated	(Reserved)	Batts and Blankets or Mineral and Fiber Boards	Metal Lath & Plaster	Gypsum Board	Mastic Coating	SFRM +	(Reserved)

The prefix numbers with an asterisk (*) and the design numbers indicated as "Reserved" in the above table are for future expansion and to cater to new types of systems developed in the future.

+ SFRM denotes Spray-Applied Fire Resistive Materials



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1. HOW DO YOU WANT TO SEARCH?

2. RESULTS

Fire Rated Walls, Floors, Beams and Columns

Search by Assembly Number

Search with Specific Parameters

Back



UL Product Spec™



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Quickly find, specify, or verify UL Certified products for your projects.

1. HOW DO YOU WANT TO SEARCH?

2. RESULTS

Search by Assembly Number

Search

Back



UL Product Spec™

The screenshot displays the UL Product Spec™ website interface. At the top left is the UL logo. Below it, the text "UL PRODUCT SPEC™" is followed by the tagline "Quickly find, specify, or verify UL Certified products for your projects." The main content area is divided into two steps: "1. HOW DO YOU WANT TO SEARCH?" and "2. RESULTS". Under step 1, the search criteria are "Search Assembly number: L501" and "Results viewing 1-1 of 1". A red bar highlights the search results, with the text "FIRE-RESISTANCE DESIGN" and an upward arrow. Below this, the specific result "L501 - BXUV.L501" is shown, with a red arrow pointing to it. Under step 2, the text "Results viewing 1-1 of 1" is displayed. At the bottom right, there are two buttons: "Print" and "New Search".



UL Product Spec™



UL PRODUCT SPEC™

Quickly find, specify, or verify UL Certified products for your projects.

1. HOW DO YOU WANT TO SEARCH?

2. RESULTS

FIRE-RESISTANCE DESIGN

Assembly Usage Disclaimer

BXUV - Fire Resistance Ratings - ANSI/UL 263

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

Design No. L501

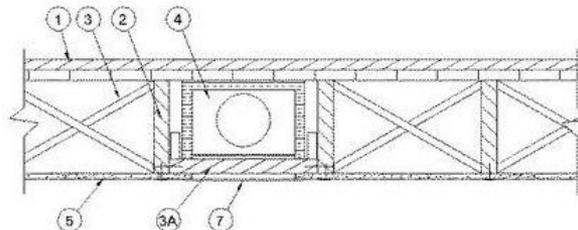
October 28, 2014

Unrestrained Assembly Rating — 1 Hr.

Finish Rating — (See Item 5 and 5A)

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



Fire Resistance Ratings - ANSI/UL 263

[See General Information for Fire Resistance Ratings - ANSI/UL 263](#)

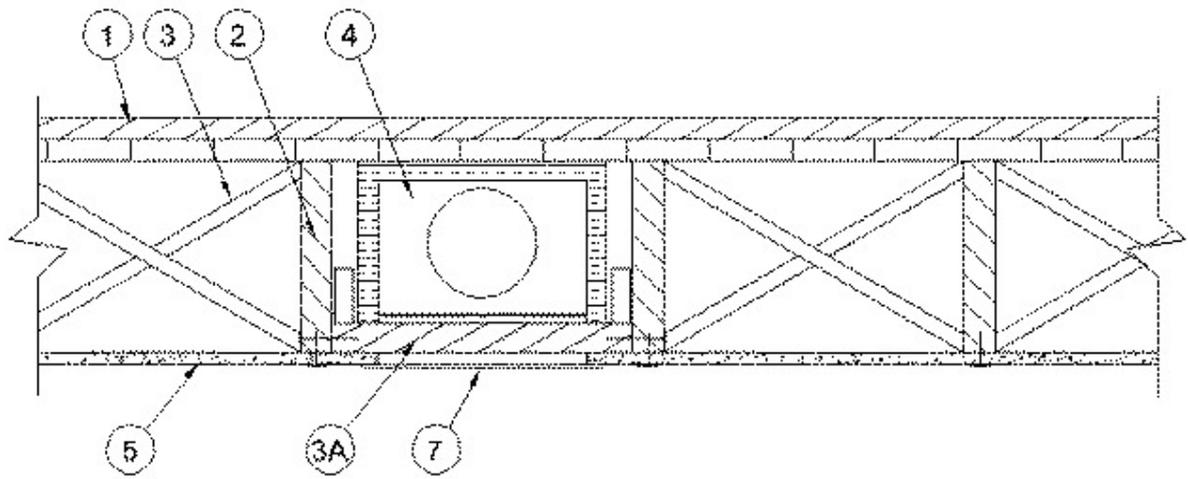
Design No. L501

September 01, 2010

Unrestrained Assembly Rating – 1 Hr.

Finish Rating – 30 Min. or (16 Min. See Item 5A)

Load Restricted for Canadian Applications – See Guide [BXUV7](#)



1. **Flooring Systems** — The flooring system shall consist of one of the following:

System No. 1

Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or min 15/32 in. thick plywood or min 7/16 in. thick oriented strand board (OSB) wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered.

Vapor Barrier — Nom 0.010 in. thick commercial rosin-sized building paper.

Finish Flooring — Min 1 by 4 in. T & G lumber installed perpendicular to joists, or min 19/32 in. thick wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panels to be perpendicular to joists with joints staggered.

System No. 2

Subflooring — Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

Vapor Barrier — (Optional) — Nom 0.030 in. thick commercial asphalt saturated felt.

Floor Mat Materials* - (Optional) — Min 3/8 in. to max 3/4 in. thick floor mat material loose laid over the subfloor. Floor topping thickness shall be as specified under **Floor Topping Mixture**.

UNITED STATES GYPSUM CO — Levelrock Brand Sound Reduction Board

Alternate Floor Mat Materials* - (Optional) — Nom 1/4 in. thick floor mat material loose laid over the subfloor. Floor topping thickness shall be as specified under **Floor Topping Mixture**.

UNITED STATES GYPSUM CO — Levelrock Brand Floor Underlayment SRM-25

Alternate Floor Mat Materials* - (Optional) — Nom 3/8 in. thick floor mat material loose laid over the subfloor. Floor topping thickness shall be as specified under **Floor Topping Mixture**.

SOLUTIA INC — Type SC50



- 2. **Wood Joists** — Min 2 by 10, spaced 16 in. OC and effectively fireblocked in accordance with local codes.
 - 3. **Cross Bridging** — Min 1 by 3 in. or min 2 by 10 solid blocking.
 - 3A. **Horizontal Bridging** — Used in lieu of Item 3 in same joist bay as ceiling damper (Item 4), when ceiling damper is employed. Wood 2 by 4 in. secured between joists with nails.
 - 4. **Ceiling Damper* - (Optional)** — Max nom area shall be 198 sq in. Max rectangular size shall be 12 in. wide by 16-1/2 in. long. Max height of damper shall be 9-3/8 in. Aggregate damper openings shall not exceed 99 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper. A steel grille (Item 7) shall be installed in accordance with installation instructions.
- AIR BALANCE INC** — Type 299 (See Item 5A)
- AIR KING VENTILATION PRODUCTS** — Series AS, Series AK
- DLX: DAMPERS AND LOUVERS EXPRESS** — Models CRD.S.HC, CRD.R.HC
- E H PRICE LTD** — Models CD-S/R-HC, CD-RD-HC
- GREENHECK FAN CORP** — Model CRD-1WJ
- METAL-FAB INC** — Models MSCDHC, MRDCHD
- NCA MFG INC** — Models CD-S/R-HC, CD-RD-HC
- RUSKIN CO** — Model CFD7
- UNITED ENERTECH CORP** — Models C-S/R-HC(-A), C-RD-HC(-A)



5. **Gypsum Board*** – Nom 5/8 in. thick, 48 in. wide gypsum board, installed with long dimension perpendicular to joists. Gypsum board secured with 1-7/8 in. long, 6d cement coated nails spaced 6 in. OC.

AMERICAN GYPSUM CO – Types AGX-1, AG-C

BEIJING NEW BUILDING MATERIALS PUBLIC

LTD CO – Type DBX-1

CERTAINEED GYPSUM INC – Types EGRG, GlasRoc, FRPC, SF3, ProRoc Type C, ProRoc Type X

CERTAINEED GYPSUM CANADA INC – Types ProRoc Type C, ProRoc Type X, ProRoc Type Abuse-Resistant

CANADIAN GYPSUM COMPANY – Types C, IP-X1, IP-X2, IPC-AR, SCX, WRX

GEORGIA-PACIFIC GYPSUM L L C – Types 5, 9, C, GPFS1, GPFS6, DA, DAP, DAPC, DGG, DS.

LAFARGE NORTH AMERICA INC – Types LGFC3, LGFC6, LGFC6A, LGFC-C, LGFC-C/A

NATIONAL GYPSUM CO – Types FSK, FSK-C, FSK-G, FSW, FSW-2, FSW-3, FSW-C, FSW-G, FSW-6

NATIONAL GYPSUM CO – Riyadh, Saudi Arabia – Type FR, or WR.

PABCO BUILDING PRODUCTS L L C, DBA

PABCO GYPSUM – Types C, PG-3, PG-4, PG-5, PG-6, PG-9, PG-C, PG-11

PANEL REY S A – Type PRC

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD – Type EX-1



TEMPLE-INLAND — Type X, Veneer Plaster Base-Type X, Water Rated-Type X, Sheathing Type-X, Soffit-Type X, TG-C, GreenGlass Type X.

UNITED STATES GYPSUM CO — Types C, IP-X1, IP-X2, IPC-AR, SCX, WRX

USG MEXICO S A DE C V — Types C, IP-X1, IP-X2, IPC-AR, SCX, WRX

5A. **Gypsum Board*** — (Finish Rating - 16 min.) Required when Air Balance Inc. Type 299 ceiling damper (Item 4) is installed. Nom 5/8 in. thick, 48 in. wide gypsum board, installed with long dimension perpendicular to joists. Gypsum board secured with 1-7/8 in. long, 6d cement coated nails spaced 6 in. OC with the first nails located 1/2 in. and 3 in. from the board edges.

UNITED STATES GYPSUM CO — Type C

USG MEXICO S A DE C V — Type C

6. **Finishing System - (Not shown)** — Vinyl, dry or premixed joint compound, applied in two coats to joints and screw-heads. Nom 2 in. wide paper tape embedded in first layer of compound over all joints. As an alternate, nom 3/32 in. thick veneer plaster may be applied to the entire surface of gypsum board.

7. **Grille** — Steel grille, installed in accordance with the installation instructions provided with the ceiling damper.

8. **Steel Corner Fasteners** — (Optional-not shown) - Used to attach ends of gypsum board at wall intersection where joists run parallel to wall. Channel shaped, 2 in. long by 1 in. high on the back side with two 1/8 in. wide cleats protruding into the 5/8 in. wide channel, fabricated from 24 gauge galvanized steel. Fasteners nailed to face of wall bearing plate through fastener tab with one No. 6d cement coated nail, spaced not greater than 16 in. OC and 2 in. from edge of gypsum board. Fasteners covered with gypsum board facing applied to intersecting wall.

*Bearing the UL Classification Mark

[Last Updated](#) on 2010-09-01

[Questions?](#)

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[Notice of Disclaimer](#)

[Page Top](#)



UL Product Spec™

Sample Search - Searching for a design based on specific parameters

- Wood stud/gypsum board wall assembly
- 2 hour rating
- Gypsum board supplied by the United States Gypsum Company



UL Product Spec™

UL

UL PRODUCT SPEC™ Quickly find, specify, or verify UL Certified products for your projects.

1. HOW DO YOU WANT TO SEARCH? **2. RESULTS**

Fire Rated Walls, Floors, Beams and Columns

Search by Assembly Number

Search with Specific Parameters

Back



UL Product Spec™



UL PRODUCT SPEC™

Quickly find, specify, or verify UL Certified products for your projects.

1. HOW DO YOU WANT TO SEARCH?

2. RESULTS

Search with Specific Parameters

Select from the following menus, then click Search.

Assembly type:

Walls and Partitions

Construct group:

Protection type:

Wood Stud, Gypsum Board, Lath &/or Plaster

Hourly ratings:

Rating ≥ 2 hr and < 3 hr

Manufacturer (optional):

United States Gypsum

Keyword (optional):

Example: "plastic"

Search

Back



UL Product Spec™



UL PRODUCT SPEC™

Quickly find, specify, or verify UL Certified products for your projects.

1. HOW DO YOU WANT TO SEARCH?

Search Assembly type: Walls and Partitions; Protection type: Wood Stud, Gypsum Board, Lath &/or Plaster; Rating: Rating ≥ 2 hr and < 3 hr;
Manufacturer: United States Gypsum

Results viewing 1-25 of 26

1 | 2 | »

2. RESULTS

FIRE-RESISTANCE DESIGN

U301 - BXUV.U301 

U302 - BXUV.U302

U308 - BXUV.U308

U309 - BXUV.U309

U332 - BXUV.U332

U334 - BXUV.U334

U336 - BXUV.U336



UL Product Spec™



UL PRODUCT SPEC™

Quickly find, specify, or verify UL Certified products for your projects.

1. HOW DO YOU WANT TO SEARCH?

2. RESULTS

FIRE-RESISTANCE DESIGN

Assembly Usage Disclaimer

BXUV - Fire Resistance Ratings - ANSI/UL 263

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263.

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

Design No. U301

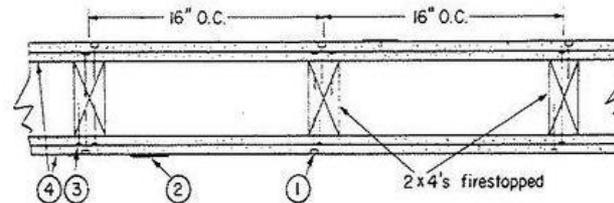
October 29, 2014

Bearing Wall Rating — 2 HR.

Finish Rating — 66 Min.

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide **BXUV** or **BXUV7**.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



Questions / Comments



Code Link

- Correlates model code sections to UL product categories
- Covers many model codes and editions (IBC, IFC, NEC, etc.)
- Flexible search capabilities
- Powerful tool to locate appropriate Listings

www.ul.com/codelink



Code Link

UL

UL CODE LINK Quickly find the correlations between building codes and UL Certified products.

1. HOW DO YOU WANT TO SEARCH? **2. RESULTS**

National Electrical Code	2014	2011
International Fire Code	2012	2009
NFPA 1: Fire Code	2012	
International Building Code	2012	2009
International Residential Code	2012	2009
Canadian Electrical Code, Part 1	2012	2009
ASHRAE 189.1	2011	
CAL Green	2013	
ICC 700	2012	
International Fuel Gas Code	2012	2009
International Green Construction Code	2012	
International Mechanical Code	2012	2009
International Plumbing Code	2012	2009
International Swimming Pool & Spa Code	2012	



Code Link

UL CODE LINK Quickly find the correlations between building codes and UL Certified products.

1. HOW DO YOU WANT TO SEARCH? **2. RESULTS**

National Electrical Code	2014	2011
International Fire Code	2012	2009
NFPA 1: Fire Code	2012	
International Building Code	2012	2009
Enter one of the following search parameters:		
Code Section Number: 716.3	UL Product Category Code: Example: "NITW"	
Search		
International Residential Code	2012	2009
Canadian Electrical Code, Part 1	2012	2009
ASHRAE 189.1	2011	
CAL Green	2013	
ICC 700	2012	
International Fuel Gas Code	2012	2009



Code Link



UL CODE LINK Quickly find the correlations between building codes and UL Certified products.

1. HOW DO YOU WANT TO SEARCH? **2. RESULTS**

Results 1-15 of 15

INSTALLATION CODE	UL PRODUCT CATEGORY & CODE
IBC 2009: 716.3	Air Terminal Units: BZGU
IBC 2009: 716.3	Ceiling Air Diffusers: BZZU
IBC 2009: 716.3	Ceiling Dampers: CABS
IBC 2009: 716.3	Dampers for Fire Barrier and Smoke Applications: EMME
IBC 2009: 716.3	Curtain Type Fire Doors: GSQX
IBC 2009: 716.3.1	Air Terminal Units: BZGU
IBC 2009: 716.3.1	Ceiling Air Diffusers: BZZU
IBC 2009: 716.3.1	Ceiling Dampers: CABS
IBC 2009: 716.3.1	Dampers for Fire Barrier and Smoke Applications: EMME
IBC 2009: 716.3.1	Curtain Type Fire Doors: GSQX
IBC 2009: 716.3.2.1	Dampers for Fire Barrier and Smoke Applications: EMME
IBC 2009: 716.3.2.1	Curtain Type Fire Doors: GSQX
IBC 2009: 716.3.2.2	Dampers for Fire Barrier and Smoke Applications: EMME
IBC 2009: 716.3.3.1	Dampers for Fire Barrier and Smoke Applications: EMME
IBC 2009: 716.3.3.2	Smoke-Automatic Fire Detectors: UROX

Results 1-15 of 15

[Print](#) [New Search](#)



Code Link

The screenshot shows the UL Code Link web application interface. At the top left is the UL logo. Below it, the text "UL CODE LINK" is displayed in a dark red font, followed by the subtitle "Quickly find the correlations between building codes and UL Certified products." in a smaller, grey font. The main content area is divided into two sections: "1. HOW DO YOU WANT TO SEARCH?" and "2. RESULTS". The "2. RESULTS" section is highlighted with a dark red background. Under "2. RESULTS", there are three main categories: "UL PRODUCT CATEGORY", "UL PUBLICATIONS", and "UL STANDARDS". Under "UL PRODUCT CATEGORY", the sub-category "EMME" is listed, followed by "Dampers for Fire Barrier and Smoke Applications" and a link "> View certification and installation parameters...". A large red arrow points from this link to the right. Below this is a dark red button labeled "VIEW UL CERTIFIED PRODUCTS", which is followed by a link "View list". Under "UL PUBLICATIONS", the link "Damper Marking Guide" is shown. Under "UL STANDARDS", the links "UL 555 Scope" and "UL 555S Scope" are listed. At the bottom right of the interface, there are two buttons: "Print" and "New Search".



Code Link



ONLINE CERTIFICATIONS DIRECTORY [Home](#) [Quick Guide](#) [Contact Us](#) [UL.com](#)

EMME.GuideInfo
Dampers for Fire Barrier and Smoke Applications

[View Listings](#) [Page Bottom](#)

Dampers for Fire Barrier and Smoke Applications

[Guide Information for Fire Resistance Ratings](#)
[Guide Information for Heating, Cooling, Ventilating and Cooking Equipment](#)

GENERAL

This category covers fire dampers, smoke dampers (leakage-rated dampers), combination fire and smoke dampers (fire and leakage-rated dampers), and corridor dampers.

Installation — All dampers covered under this category are intended to be installed in accordance with the installation instructions provided with the dampers. Authorities Having Jurisdiction should be consulted before installation. Unless otherwise indicated in the installation instructions, the annular space between the sleeves of fire dampers, combination fire and smoke dampers, or corridor dampers and the wall opening should not be filled with firestop materials such as fill, void or cavity materials.

Air-flow and Pressure Ratings — Fire dampers for use in dynamic systems, smoke dampers, combination fire and smoke dampers, and corridor dampers are marked with the maximum air flow and static pressure HVAC system conditions for which the damper has been investigated. The air-flow (velocity) ratings are established in increments of 1000 CFM/ft² of damper area (FPM), with the minimum being 2000 CFM/ft². The air-flow ratings are established based on test conditions with the damper in the full open position. The static pressure ratings are established in increments of 2 in.WG, with the minimum being 4 in.WG. The static pressure ratings are established based on test conditions with the damper in the full closed position.



Code Link

The screenshot shows the UL Code Link web application interface. At the top left is the UL logo. Below it, the text "UL CODE LINK" is displayed in red, followed by the subtitle "Quickly find the correlations between building codes and UL Certified products." in grey. The main content area is divided into two sections: "1. HOW DO YOU WANT TO SEARCH?" (grey background) and "2. RESULTS" (red background). Under "1. HOW DO YOU WANT TO SEARCH?", there are three categories: "UL PRODUCT CATEGORY", "UL PUBLICATIONS", and "UL STANDARDS". Under "UL PRODUCT CATEGORY", the text "EMME" is shown, followed by "Dampers for Fire Barrier and Smoke Applications" and a link "> View certification and installation parameters...". Under "UL PUBLICATIONS", the text "Damper Marking Guide" is shown. Under "UL STANDARDS", the text "UL 555 Scope" and "UL 555S Scope" are shown. A red arrow points from the "View list" link under "VIEW UL CERTIFIED PRODUCTS" to the left. At the bottom right, there are two buttons: "Print" and "New Search".



Code Link



Search results

You may choose to [Refine Your Search.](#)

Company Name	Category Name	Link to File
AIR BALANCE INC	Dampers for Fire Barrier and Smoke Applications	EMME.R4708
AIR MANAGEMENT INC	Dampers for Fire Barrier and Smoke Applications	EMME.R22333
AIR MASTER EQUIPMENTS EMIRATES L L C	Dampers for Fire Barrier and Smoke Applications	EMME.R21172
AIRE TECHNOLOGIES INC	Dampers for Fire Barrier and Smoke Applications	EMME.R17066
ALDES MIDDLE EAST	Dampers for Fire Barrier and Smoke Applications	EMME.R25305
ALUMAVENT INC	Dampers for Fire Barrier and Smoke Applications	EMME.R25565
AMERICAN WARMING & VENTILATING	Dampers for Fire Barrier and Smoke Applications	EMME.R16398
ARABIAN THERMAL AIRE INDUSTRIES CO LTD	Dampers for Fire Barrier and Smoke Applications	EMME.R25079
ARLAN DAMPER CORP	Dampers for Fire Barrier and Smoke Applications	EMME.R8610
ARROW UNITED INDUSTRIES, DIV OF MESTEK	Dampers for Fire Barrier and Smoke Applications	EMME.R19235

Page: [1](#) | [2](#) | [3](#) | [4](#) | [5](#) | [6](#) | [7](#) | [8](#) | [9](#)

Model number information is not published for all product categories. If you require information about a specific model number, please contact [Customer Service](#) for further assistance.



Questions / Comments



Other UL Resources for AHJs

Code Authorities web page

Codes & Advisory Services technical support

Complementary newsletters

Ultimate e-mail notifications



Fire Service Related Content

Fire authorities

UL conducts world class, cutting edge fire research and provides a wide range of certification programs and services to help fire authorities protect emergency responders and members of their communities.





Make this my Home Page

Code Authorities

- Fire
- Electrical
- Building
- Mechanical
- Plumbing
- Environmental and Public Health
- Fuel Gas
- Sustainability
- Resources
- Services
- Publications
- Keeping in Touch

Home > Perspectives > Code Authorities



Code authorities

Code authorities count on UL's technical expertise and over 120 years of experience to provide certification services, product standards, cutting edge research, and the technical support they need to provide safe and sustainable code compliant installations.



Code related content



Resources for Code Authorities

Code Authorities

Fire
Electrical
Building
Mechanical
Plumbing
Environmental and Public Health
Fuel Gas
Sustainability

Resources

Code Correlation Database
Technical Library
Installed Products
Regulatory Support
FAQs

Services
Publications
Keeping in Touch

Resources for code authorities

UL has a wide range of resources to help code authorities, designers, specifiers and installers achieve safe and sustainable code compliant installations.



Code correlation database

A powerful tool that correlates installation code sections with UL certifications and services. Try it now!

[➔ Start here](#)

Online certifications directory

A comprehensive database that includes manufacturers' certifications and important product category information.

[➔ Start here](#)

Technical library

Technical information on topics of interest to code authorities.

[➔ Learn more](#)



Code Official Newsletters

Technical updates and code related considerations for UL certified products

- *The Code Authority*
- *The Code Authority - Electrical Connections*
- *The Fire & Security Authority*



ULTimate E-mail

Electronic notices

- New product categories
- Upcoming seminars
- Product recalls

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Questions / Comments



Market Surveillance

Works to Protect the Integrity of UL
Certifications –

by investigating *Product Incident Reports* and
by *proactive market surveys* of product samples obtained
from the marketplace.



UL Market Surveillance

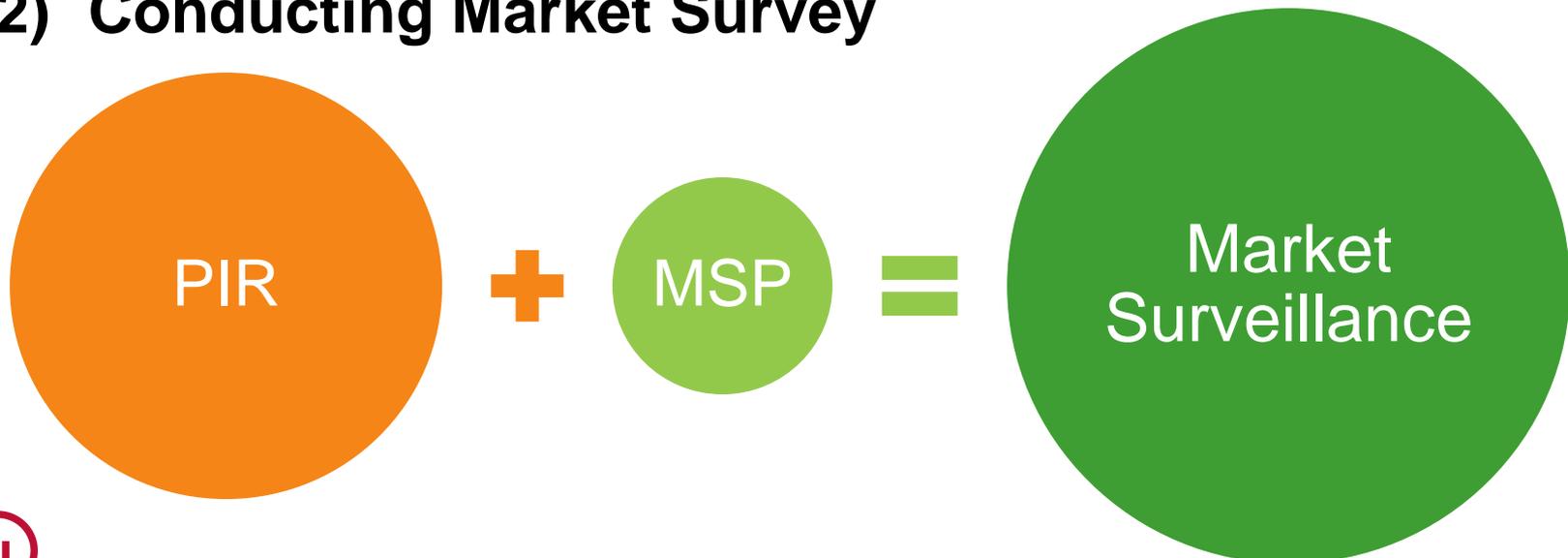
(Formerly FIELD REPORTS)

PURPOSE

To ensure that safe products are placed on the market.

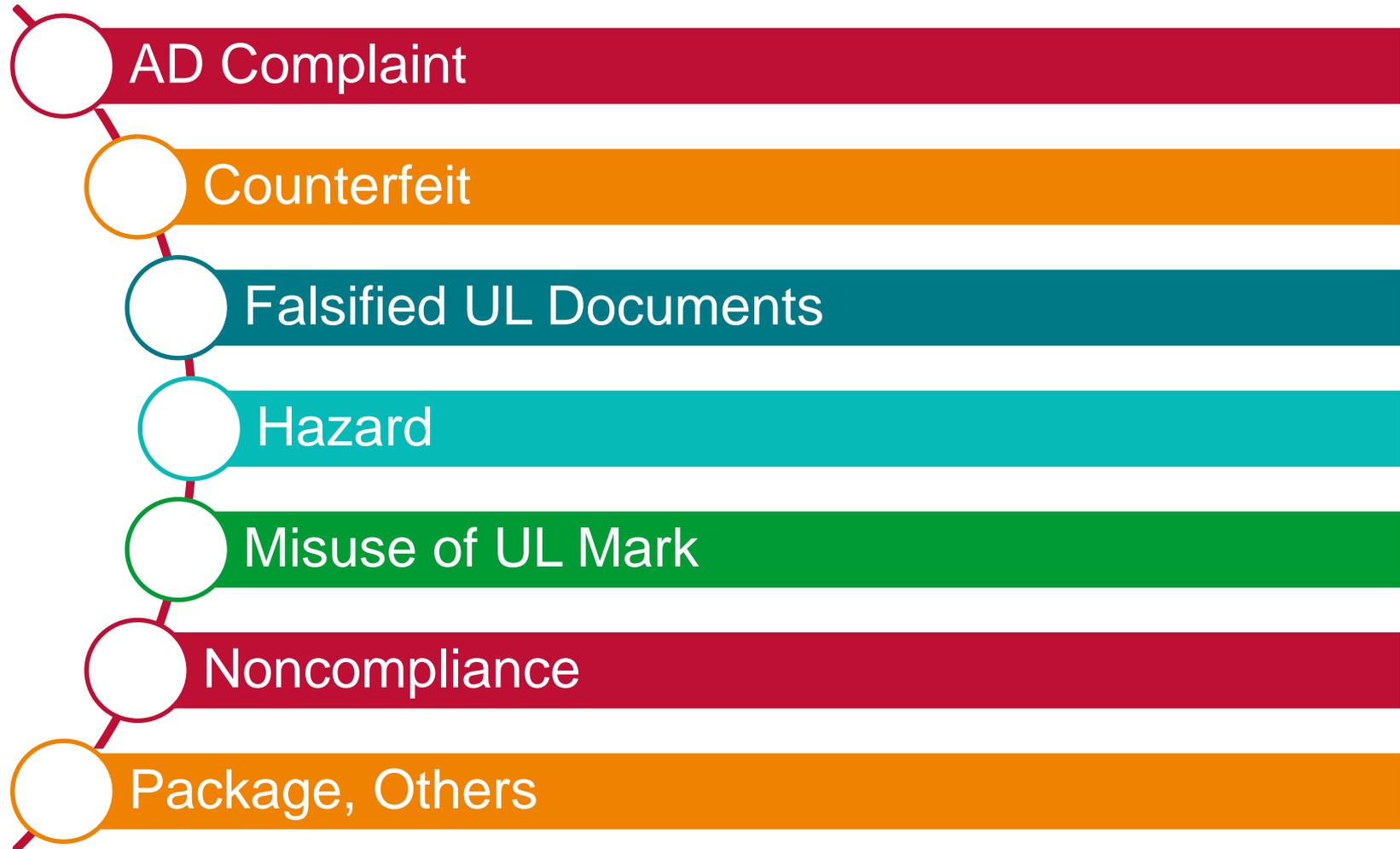
ELEMENTS

- 1) Investigations of Product Incident Reports
- 2) Conducting Market Survey



UL Market Surveillance

PIR Types



UL Market Surveillance PIR Investigations



PIR is opened &
Acknowledged

Verification /
Substantiation

Investigation /
Develop Information

Determine the
root cause

Conduct Risk
Assessment



Market Surveillance Product Incident Report Form

If you would like to report a safety-related concern with a product bearing a UL Mark or an advertising concern, please complete and submit the form below. If any of the fields are not applicable, please enter NA.

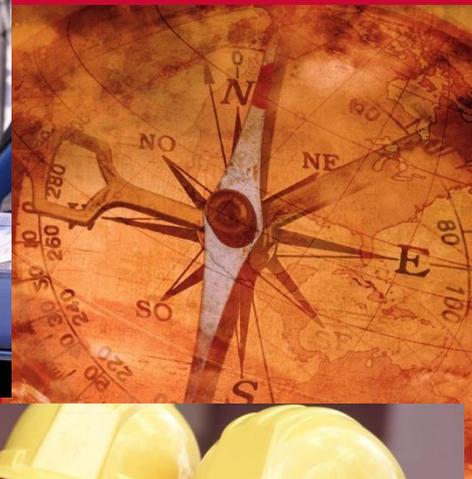
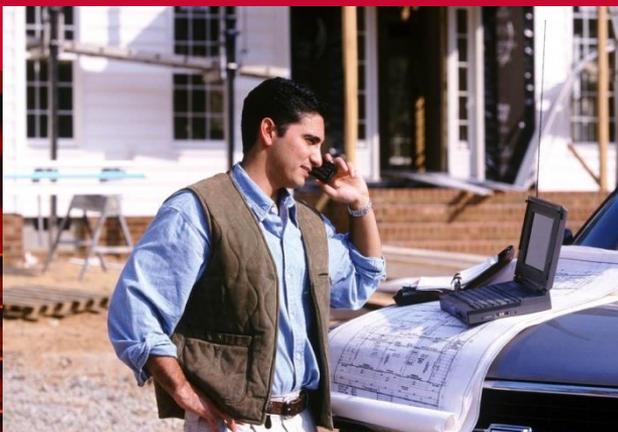
For more information about UL's Market Surveillance Department click [here](#).

A. Your contact information

Name	<input type="text" value="First"/>	<input type="text" value="Last"/>
Title or position	<input type="text"/>	
Company / Jurisdiction / Organization	<input type="text"/>	
Address	<input type="text" value="Street Address"/>	
	<input type="text" value="Address Line 2"/>	
	<input type="text" value="City"/>	<input type="text" value="State / Province / Region"/>
	<input type="text" value="ZIP / Postal Code"/>	<input style="border-bottom: none; border-right: none; border-top: none; border-left: none; padding: 0 5px; text-align: right; font-size: 0.8em; font-weight: normal; color: #666; background: none; border: none; border-bottom: 1px solid #ccc; border-right: 1px solid #ccc; border-top: 1px solid #ccc; border-left: 1px solid #ccc; width: 100%; height: 20px; vertical-align: middle; margin: 0;" type="text" value="Country"/> ▼
Phone	<input type="text" value="92"/>	



Questions?





THANK YOU!

Bruce E. Johnson

Senior Regulatory Engineer

Codes and advisory Services

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