



# VPMIA

2024 Annual  
School of Instruction  
Virginia Beach  
April 3-5, 2024

MIFAB CATALOGS



**MPB-2024-USA**  
SPECIFICATION  
DRAINAGE  
(LIT-067)



**CLPB-2024**  
LIGHT COMMERCIAL  
PRODUCTS  
(LIT-048)



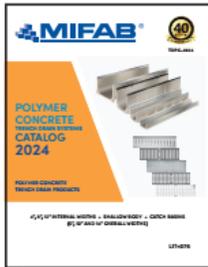
**AD-2024-USA**  
ACCESS DOORS  
(LIT-043)



**BEECO-2022**  
BACKFLOW PREVENTERS  
AND ACCESSORIES  
(LIT-071)



**NH-2022-06**  
NO HUB COUPLINGS  
(LIT-044)



**TDPC-2024**  
POLYMER CONCRETE  
TRENCH DRAINS  
(LIT-076)



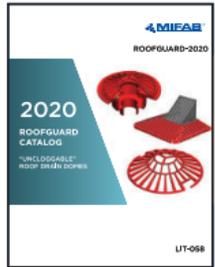
**TD-2024**  
GRP & STEEL  
TRENCH DRAINS  
(LIT-046)



**TDSD-2024**  
SHOWER DRAINS  
(LIT-077)



**TDSS-2024**  
STAINLESS STEEL  
TRENCH DRAINS  
(LIT-072)



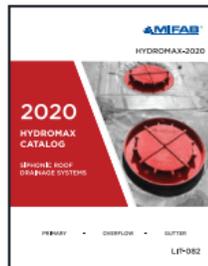
**ROOFGUARD-2020**  
ROOFGUARD ROOF  
DOMES  
(LIT-058)



**C-PORT-2023**  
ROOFTOP RUBBER  
PIPE SUPPORTS  
(LIT-047)



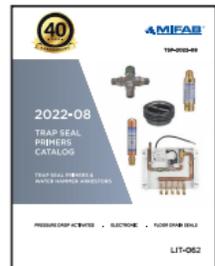
**DB-2024**  
DIALYSIS BOXES  
(LIT-070)



**HYDROMAX-2020**  
SIPHONIC DRAINAGE  
(LIT-082)



**INT-2024**  
INTERCEPTORS & ACID  
NEUTRALIZATION TANKS  
(LIT-095)



**TSP-2022-08**  
TRAP SEAL  
PRIMERS  
(LIT-062)



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# Welcome to VPMIA's 61<sup>st</sup> School of Instruction

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# From the President

Leading the VPMIA as President this past year has been a privilege. I am truly humbled that the membership would entrust me with the keys to this great organization. I'm incredibly grateful to our dedicated officers, directors, and committee chairs. Their tireless efforts ensured adherence to our strategic plan and vision, propelling the VPMIA towards its goals this year.

Together, we've accomplished some truly remarkable things. The membership initiative I launched at the beginning of my term has been a resounding success, resulting in a significant increase in members. These new members bring fresh perspectives and tremendous potential – they're the future leaders of VPMIA, and I'm excited to see them develop.

In a move towards sustainability and cost-efficiency, we transitioned our VPMIA Yearbook from a physical publication to a digital format. This change allows us to reach a wider audience while also saving valuable resources.

Investing in our members' professional development is also crucial. This year, we were proud to award scholarships to members attending the Virginia Code Education Conference, ICC Conference, and the ICC Code Hearings.

Speaking of the code hearings, the VPMIA continues to be leaders at both the state and national levels in code development. The PMG Code Committee has

met multiple times to discuss changes to the code and to develop positions on proposals for plumbing, mechanical and fuel gas.

A huge congratulations to the VPMIA Legislative Committee Chair Ron Clements on his well-deserved election to the ICC Board of Directors! This is a well-earned recognition of his significant contributions to both VPMIA and the industry as a whole.

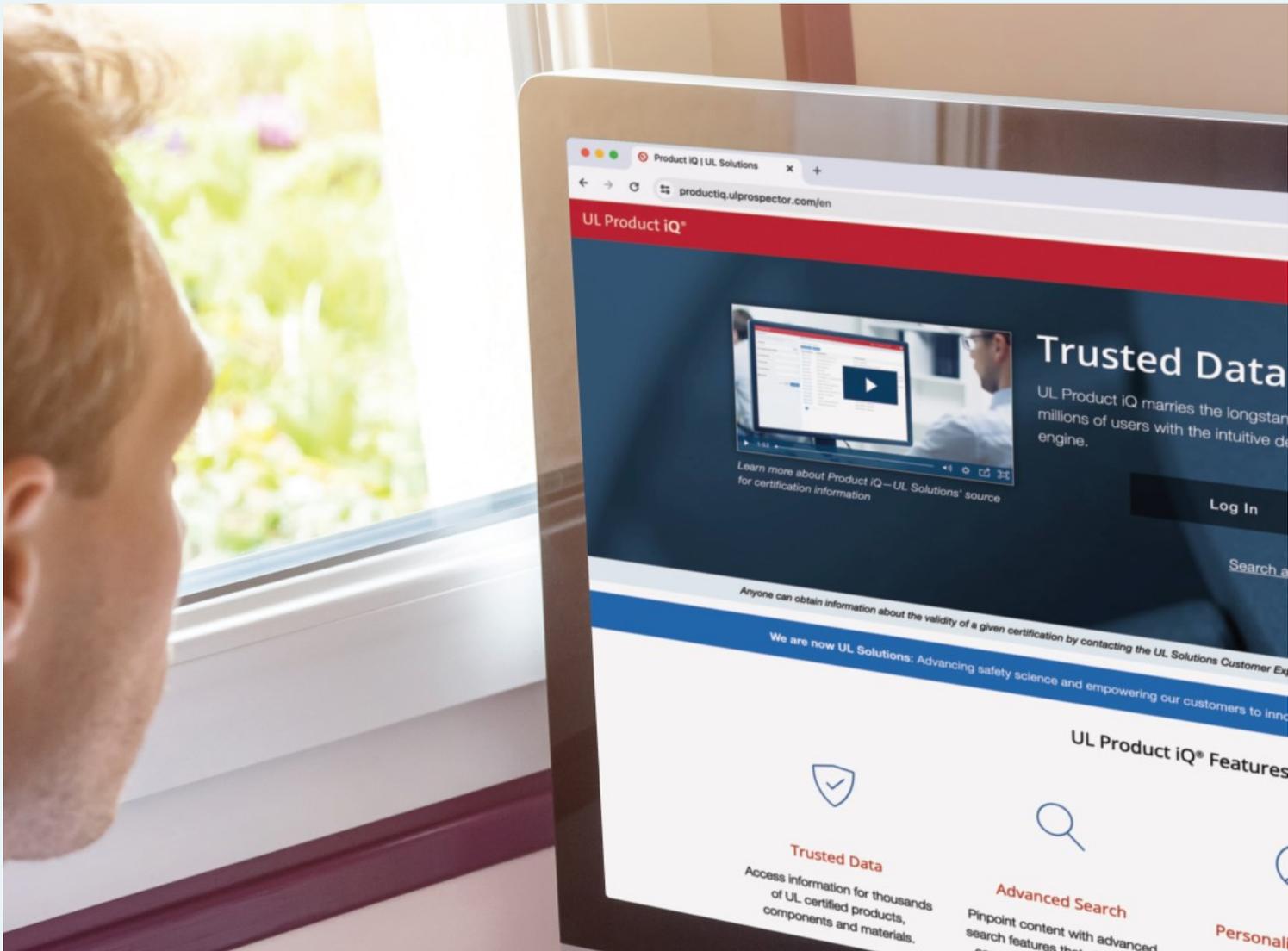
I challenge each of you to become a mentor, not just to anyone, but to someone who could benefit from our expertise and, in turn, become a valuable member of our association. Imagine the possibilities if each member identifies a passionate individual in the plumbing and mechanical field and guides them towards joining VPMIA. By welcoming new members and fostering their professional growth, we create a stronger VPMIA.

In closing, this year has been a testament to the collective strength and dedication of the VPMIA community. I'm incredibly proud of what we've achieved together, and I look forward to seeing even greater things in the future.

Respectfully,

Dennis Hart, VPMIA President





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# 2024 VPMIA SPRING SCHOOL OF INSTRUCTION AGENDA

## Wednesday April 3<sup>rd</sup>

7:30am - 8:00am Registration/Sign in  
8:00am - 9:30am [Proper Installation and Inspection of Gas Regulators](#)  
9:30am - 10:00 am Break  
10:00am - 11:30pm [Proper Installation and Inspection of Gas Regulators](#)  
11:30pm - 12:00pm Report from Nominating Committee Nomination of 2024/2025 officers  
12:00pm - 1:00pm Lunch  
1:00pm - 2:30pm - [Fire Protection of Mechanical Penetrations Properly](#)  
2:30pm - 3:00pm Break  
3:00pm - 4:30pm [Fire Protection of Mechanical Penetrations Properly](#)  
4:30pm - 5:30pm General Membership Meeting  
5:30pm - 6:00pm President's Welcome  
6:00pm - 7:30 pm Dinner

## Thursday April 4<sup>th</sup>

8:00 am - 9:30 am - [ICC Accessibility Class](#)  
9:30 am -10:00 am Break  
10:00am - 11:30am - [ICC Accessibility Class](#)  
11:30 - 12:00 Visit Sponsor Tables  
12:00 pm - 1:00 pm Lunch  
1:00 pm - 2:30 pm - [ICC Accessibility Class](#)  
2:30pm - 3:00pm Break  
3:00 pm - 4:30 pm - [ICC Accessibility Class](#)  
5:00pm - 6:00pm Reception  
6:00pm - 8:00pm Banquet, Awards, Officer Installation

## Friday April 5<sup>th</sup>

7:00am - 8:30am Breakfast Buffet  
8:30am - 10:00am [The Evolving GREEN in the Plumbing Code](#)  
10:00am - 10:30am Break  
10:30am - 12:00pm [The Evolving GREEN in the Plumbing Code](#)

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## 2023 VPMIA OFFICERS



President.....Dennis Hart  
 Vice President.....Frederick Crowell II  
 Secretary .....Peter Kapitan  
 Treasurer .....Joshua Rolfe  
 Executive Secretary.....Chris Martin  
 Immediate Past President.....Anthony McMahan  
 District 1 Director . . . . .Chris Hickey  
 District 2 Director . . . . .Bane Compton  
 District 3 Director . . . . .Donald Mimms  
 District 4 Director . . . . .Brian Petty

## 2023 VPMIA COMMITTEES

Advertising/Yearbook...James Anjam - Chair  
 Auditing.....Frederick Crowell - Chair  
 Award.....Tom Clark - Chair  
 ByLaws.....Skip Harper - Chair  
 Certification/Education...Anthony McMahan - Chair  
   Chris Hickey  
   Donald Mimms  
   Bane Compton  
   Brian Petty  
 Finance.....Joshua Rolfe  
 Information Technology..Jane Kim - Chairs  
   Skip Harper  
 Legislative.....Ron Clements - Chair  
 Membership.....Chris Martin - Chair  
   Chris Hickey  
   Donald Mimms  
   Bane Compton  
   Brian Petty  
 Nominating.....Anthony McMahan - Chair  
 PMG Code Committee....Dennis Hart - Chair

Time & Place/  
 School of Instruction.....Bob Adkins - Chair  
   Joshua Rolfe  
   Chris Hickey  
   Skip Harper  
 BCAAC (Ad Hoc).....Vacant  
 Building Safety Month  
 (Ad Hoc).....Tom Clark - Chair  
 VA Code Education Conference  
 (VCEC) (Ad Hoc).....Anthony McMahan - Chair  
   Thomas Clark  
 VBCOA Liaison (Ad Hoc)..David Beahm  
 ICC.....Lisa Berger  
 Region 7 ICC Liaison.....Joshua Rolf  
 DHCD.....Sandi Morris  
 DPOR Liaison.....Jerry Heinline



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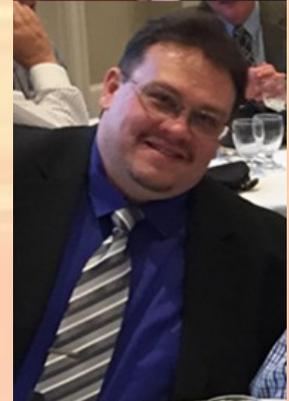
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# VPMIA Past Presidents

CHARLES E. MANNION 1963  
PAUL C. KING 1964  
GORDON I. DAMERON 1965  
D. PAUL JACK 1966  
FRANK B. BOSMA 1967  
U. EARL ALLEN 1968  
HARRY CONTE 1969  
JAMES B. JONES 1970  
L. W. FURMAN 1971  
GEORGE H. WILLIAMS 1972  
W. T. DRAKE 1973  
BENJAMIN BIANCO 1974  
J. L. SHIFFLETT 1975  
HOMER O. DENNIS 1976  
JULIAN E. MEREDITH 1977  
EDWARD T. PARSONS 1978  
EDWARD J. BALDWIN, JR. 1979  
HENRY A. RODÉS 1980  
RUDOLF SCHROECK 1981  
JESSE R. HURT 1982  
CHARLES DEDIAN 1983  
KENNETH R. SNYDER, SR. 1984  
LAWRENCE J. NUCKOLS 1985  
JOHN W. THURSTON 1986\*  
WILLIAM F. HINES 1987  
LESLIE A. COURTNEY 1988  
JIMMY A. ENGLISH 1989  
DOUGLAS L. STOVER 1990

ROBERT M. BROOME 1991  
PAUL D. HOSTETLER 1992  
DENNIS W. McNAUGHTON 1993  
JOHN S. TRENARY 1994  
MICHAEL D. REDIFER 1995/1996  
KATHLEEN T. DYE 1997  
HASSEL DeSHAZO 1998  
ROY N. McFARLAND, JR. 1999/2000  
CLEATIS DYE, JR. 2001  
CHARLES GERBER 2002  
GUY TOMBERLIN 2003/2004  
GEARY SHOWMAN 2005  
MICHAEL THUOT 2006  
JOHN SEAY 2007  
DENNIS MARTINELLI 2008  
JOHN MILLS 2009  
WAYNE KUSHNER 2010  
ROBERT ADKINS 2011  
BANE COMPTON 2012  
RON BLADEN 2013  
PAUL RIMEL 2014  
SKIP HARPER 2015/2016  
RICHARD GRACE 2016  
DUSTIN MCLEHANEY 2017  
JAMES ANJAM 2018  
TOM CLARK 2019/2020  
ELLIS MCKINNEY 2021  
ANTHONY MCMAHAN 2022





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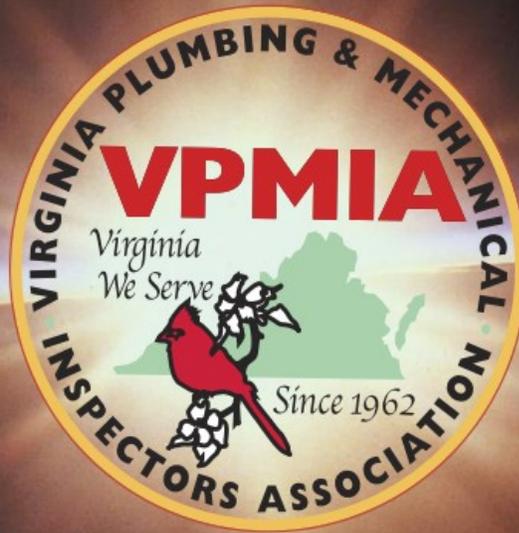
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## VPMIA's Foundation

### Vision Statement

VPMIA members are committed to providing code development leadership and continuous training that results in uniform application of the codes. We look for opportunities to partner with all who are impacted and strive to develop and deliver codes and standards that result in health, safety, and welfare protection for the public.

### Mission

VPMIA is an association of code professionals dedicated to promotion of uniform enforcement and development of the codes throughout the Commonwealth to assure the health, safety, and welfare of its citizens and any one who may live, work, or visit the state of Virginia. The pursuit of this endeavor is achieved through close, open, and equal working relationships with design professionals, builders, contractors, material manufacturer's and others involved in the construction industry. VPMIA supports the ICC, its goals and mission.

### Strategic Plan Mission

VPMIA's strategic plan is to advance our mission through training in order to promote better understanding of the benefits and efficiency of using model codes. The association promotes teamwork, while embracing fairness and respect to all involved parties, always maintaining open communications in every aspect to those who participate in the process.

## VPMIA's Strategic Plan

### GOAL # 1

#### Enhance and increase communications of VPMIA with the public

(Communications)

##### Initiative action:

- Actively promote a positive image of code enforcement's role in the community.
- Advertisements in trade, industry, state DHCD, and community publications.
- Commitment to code development to achieve the superior level of health, safety, and welfare for our citizens.

### GOAL # 2

#### Increase and expand education

(Training – Communications)

##### Initiative action:

- Encourage increased participation from all interested parties who interact with any and all aspects of code enforcement.
- Increase awareness of the educational benefits of the association.
- Promote credentialing programs provided by the state DHCD.

### GOAL # 3

#### Uphold the highest levels of professionalism

(Leadership – Professionalism)

##### Initiative action:

- Instill and promote leadership values.
- Always display integrity.
- Adherence to code of ethics.
- Share knowledge at all levels.

- Maintain and promote certifications.
- Respect others.

### GOAL # 4

#### Promote relationships with industry and related professional organizations

(Cooperation)

##### Initiative action:

- Participate in the code development process.
- Encourage cooperative working relationships with construction-industry professionals.
- Become involved as active or associate members to other professional organizations such as VBCOA, ICC, IAEL, and PMPV.
- Solicit speakers and provide speakers for these organizations to enhance communication.
- Continue to actively participate in DHCD towards uniform application and development of the model building codes and standards.

### GOAL # 5

#### Broaden and expand VPMIA Membership

(Membership)

##### Initiative action:

- Develop information package of the organization benefits.
- Provide more member services.
- Develop a more wide spread advertisement program for membership, including associate members.

### GOAL # 6

#### Continue leadership and participation in code development process

(Leadership – Code Development)

##### Initiative action:

- Enhance and develop strategies for participation in International Code Council Code developmental process.
- Encourage participation on state and national committees.
- Provide financial support towards member participation in these activities.

### GOAL # 7

#### Promote the adoption of the International Code Council family of model codes

(Communications – Training)

##### Initiative action:

- Provide analysis and impact of benefits for industry, where necessary.
- Provide training for code enforcement officials and industry.
- Interact with DHCD to provide uniform enforcement of model codes.

### GOAL # 8

#### Ensuring financial viability of VPMIA

(Financial)

##### Initiative action:

- Align financial resources to organizational outcomes.
- Achieve goal objectives.
- Operate within budgeted plan.

# SOME PIPE IS LIKE AN EGG.

Like eggs, PVC pipe needs protection.  
**Cast iron pipe doesn't.**



## Underground Facts

Specifications	Cast Iron	PVC
Failure Mode	Rigid - Crush	5% Deflection
Trench Width	Pipe width	Pipe O.D. + 16"
Trench Bottom	No special bedding	Dependent upon soil type
Compaction	No special requirements	6" layers Hand compact

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# Mitigating Clothes Dryer Fires

By John K. Taecker, PE senior regulatory engineer

*Distinguished member of Technical Staff, William Henry Merrill Society and John Maguire, lead regulatory engineer*

There are many statistics published each year regarding clothes dryer fires, by such organizations as the Consumer Product Safety Commission (CPSC), the National Fire Protection Association (NFPA) and the United States Fire Administration (USFA).



There are approximately 15,600 structure fires, 400 injuries and 15 deaths reported annually as a result of dryer fires.

According to USFA, every year, clothes dryer fires account for over \$100 million (USD) in property losses. A majority of dryer fires occur as a result of highly combustible lint getting caught in the dryer's vent and becoming heated to the point of ignition. The lint is combustible due to synthetics used in clothes.

## The challenge

For dryers, the combination of high heat, a small chamber and combustible materials can be lethal, as shown by National Fire Protection Association statistics ([NFPA](#)). "Failure to clean" was cited in 33% of dryer fires, while spontaneous combustion of the clothing load during dryer use contributed to 26% of the blazes.

When not properly cleaned and maintained, by removing the lint from the filter after each use and having the exhaust vent inspected annually and cleaned, the risk of fire is increased. Dryer fires can readily spread through the exhaust system and potentially ignite other combustible and flammable materials in the area surrounding the dryer, such as household cleaning materials and adjacent structures (e.g., walls).



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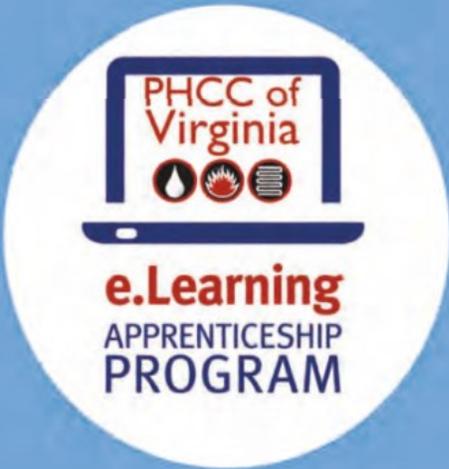
**For Lunch & Learns or more information, contact:**

Mike McCarthy | Technical Manager  
[Mike.McCarthy@Viega.us](mailto:Mike.McCarthy@Viega.us), (571) 328-1143

Based in the Northern Virginia D.C. Metro area, Mike formerly worked for a fire protection manufacturer and was a volunteer firefighter. Mike holds a Business Degree with a specialization in entrepreneurship and brings strategic business planning to the Viega team.



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Thus, the proper installation, use and maintenance of third-party certified clothes dryers and clothes dryer exhaust duct systems in any occupancy using clothes dryers is critical to reducing the fire hazard. The applicable safety standards used to evaluate and certify clothes dryers include fire containment tests and a cool-down-period requirement to mitigate the risk of fire due to lint accumulation and reduce the risk of spontaneous ignition of the clothes load.

## Product testing and certifications

The UL Solutions' product category "Clothes Dryers" ([KMEX](#)) covers electric clothes dryers intended for use only where water has been used as the cleaning agent. UL Certified products can be found using our complimentary search tool, [UL Product iQ®](#). Access to the code authority features of Product iQ requires a simple one-time registration.

The basic standard used to investigate products in this category that are intended for use by the general public within household and commercial installations, including appliances provided with coin-, ticket- or card-operated mechanisms, is [UL 2158](#), The Standard for Electric Clothes Dryers.

The UL Solutions' product category "Gas-fired Clothes Dryers, Type 1" ([LETA](#)) covers gas-fired Type 1 clothes dryers, which are appliances used to dry wet laundry by means of heat derived from the combustion of fuel gases. Type 1 clothes dryers may be for use with natural gas, manufactured gas, mixed gas, propane gas, liquefied petroleum gases, or LP gas-air mixture as marked on the dryer rating plate. The basic standard used to investigate products in this category is ANSI Z21.5.1/CSA 7.1, "Gas Clothes Dryers, Volume I – Type 1 Clothes Dryers."

Combination washer-dryers and laundry centers using electric dryers are covered under Washing Machines (ZCTT), and combination washer-dryers and laundry centers using gas dryers are covered under Gas-Fired Clothes Dryers, Type 1 (LETA). The basic standard used to investigate these products that are intended for use by the general public within household and commercial installations is [UL 2157](#), the Standard for Electric Clothes Washing Machines and Extractors and either [UL 2158](#) or ANSI Z21.5.1/CSA 7.1, "Gas Clothes Dryers, Volume I – Type 1 Clothes Dryers."



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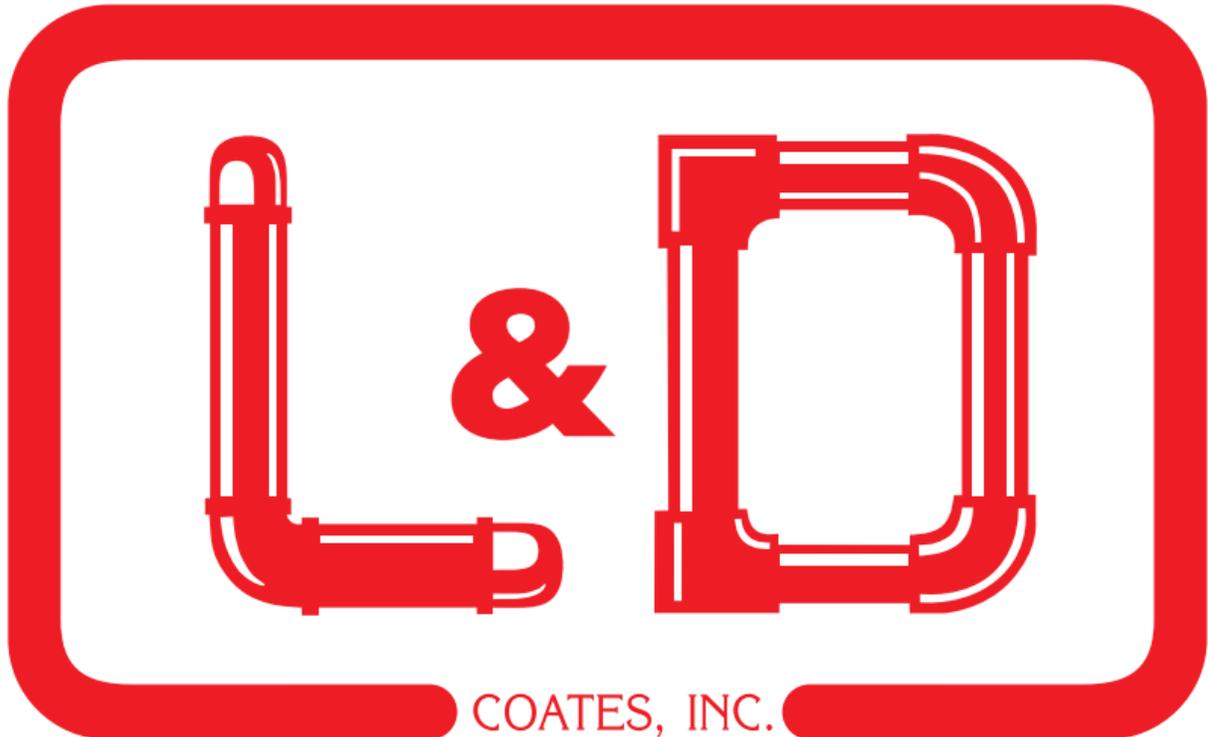
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## Exhaust systems

The normal use of a clothes dryer creates a large volume of humid air, which needs to be exhausted to the outside in accordance with the manufacturer's instructions. Without proper exhaust, this moisture could affect electrical wiring or other electrical devices in the vicinity.

As part of the exhaust system, third-party certified clothes dryer transition ducts are used to connect either an electric or gas clothes dryer to an existing permanent duct system provided as part of the building structure. These ducts are covered under Clothes Dryer Transition Ducts ([KMIK](#)), and evaluated in accordance with [UL 2158A](#), the Standard for Clothes Dryer Transition Ducts. These ducts are either rigid or flexible metal types. Flexible types are a maximum 8 ft. long for use in single lengths only. Using the type of duct recommended by the clothes dryer manufacturer is important to reduce the risk of fire.

Dryer-exhaust-duct power ventilators (DEDPV) are used to assist the exhaust from clothes dryers over longer length ducts. The UL Solutions' product category for DEDPV is [ZACZ](#), and the basic standard used to investigate these products is [UL 705](#), the Standard for Power Ventilators.

These ventilators are for serving a single residential dryer, and are intended to be installed in accordance with the ventilator manufacturer's instructions, as well as the installation instructions for the clothes dryer with which it is combined. These ventilators are provided with at least one of the following:

1. Means to sense the operation of the clothes dryer and automatically cause the DEDPV to turn on.
2. An interlocking device intended to prevent the clothes dryer from being energized if the DEDPV fails to turn on.

DEDPVs are tested and certified to evaluate their ability to maintain acceptable duct air velocity throughout the range between the maximum and minimum duct length specified in the ventilator instruction manual.

## Code requirements for installation and maintenance

# Virginia Energy Code 2018 IECC

## IECC 2018 Energy Code

### Piping Insulation Protection

IECC C403.2.10.1, R403.4.1 (2018): Piping insulation exposed to weather shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, wind and shall provide shielding from solar radiation that can cause degradation of the material. **Adhesive tape shall not be permitted.**



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## Mechanical Code 2018

### Exposure of Refrigerant Pipe Joints

1107.7 Refrigerant pipe joints erected on the premises shall be exposed for visual inspection prior to being covered or enclosed.

# New Penetration Sealing Requirements

## 2018 IECC Commercial Energy Code

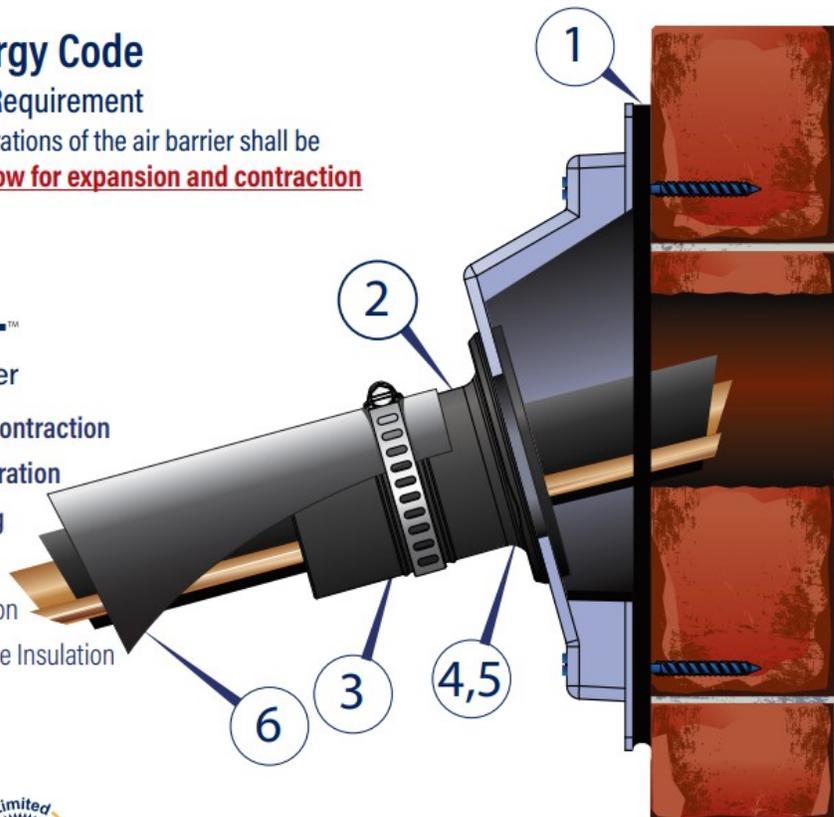
### Air Barrier: New Penetration Sealing Requirement

R402.4.1.1 Shafts, penetrations - Utility penetrations of the air barrier shall be gasketed or otherwise sealed **and shall allow for expansion and contraction of materials and mechanical vibration.**

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The International Fuel Gas Code (IFGC), International Mechanical Code (IMC), Uniform Mechanical Code (UMC), and International Residential Code (IRC) require commercial and residential clothes dryers to be listed and labeled, and to be installed in accordance with the manufacturer's installation instructions. The required product testing standards include requirements for specific cleaning and maintenance directions to be part of the manufacturer's installation and use instructions.

Clothes dryers, other than condenser-type or heat pump-type clothes dryers, are intended to be connected to a clothes dryer exhaust duct to the outdoors. The maximum duct length and number of bends is intended to be in accordance with the clothes dryer installation instructions. The installation codes have additional requirements for the construction of the clothes dryer exhaust system.

The International Fire Code (IFC) and the NFPA Fire Code (NFPA 1) require the lint trap, mechanical and heating components, and the exhaust duct system of a clothes dryer to be maintained in accordance with the manufacturer's operating instructions to prevent the accumulation of lint or debris that prevents the exhaust of air and products of combustion.

The frequency of inspections depends on various factors, such as how often the dryer is used, the geometry of the exhaust duct system, and the age and type of dryer.

Improper consumer use and care of a dryer are some of the industry's biggest challenges in maintaining appliance performance and safety.

## Preventative actions to take

For safety tips for clothes dryers, please see the NFPA safety sheet.

Additional actions to take for general home fire safety:

- \* Homes should be protected with interconnected smoke alarms installed in every sleeping room, outside of sleeping rooms and at least one on every level of a home. [Learn more here.](#)
- \* To best prepare for what actions to take should you experience a fire in your home, it's recommended to have a family escape plan and to practice the plan with family members.
- \* All family members should know the address of the home and how to call for emergency help (911 or your local emergency phone number).

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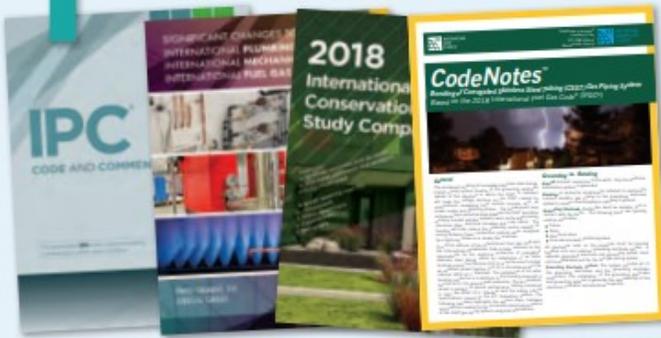
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