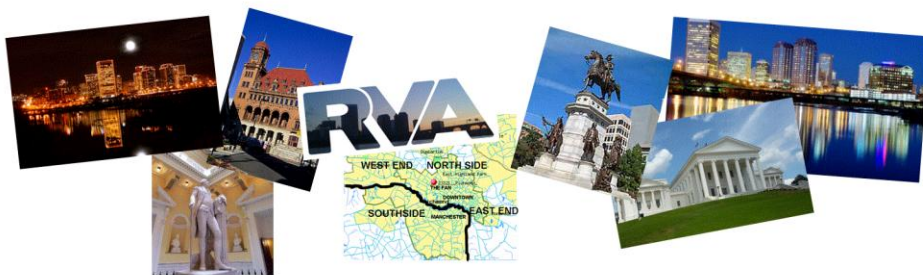

ASPE RICHMOND CHAPTER NEWSLETTER



October 14



NEXT MEETING

You are invited to

ASPE Richmond Chapter Meeting

Wednesday, October 15th

11:30 am – 1:00 pm

The Holiday Inn

9933 Mayland Dr.

Richmond, VA. 23233

Otto Sales has offered to pay for all designers, engineers, and contractors to attend.

THANKS OTTO SALES!

<http://www.ottosales.com/>

Please RSPV ASAP – SEE YOU SOON

The October Richmond Chapter meeting presentation will be on *The Evolution of Cast Iron Pipe* and will be focusing on new products, coatings, manufacturing and certifications. Our presenter will be Pat McQuillan from New Age Casting. Don't miss it...bet you'll be surprised at what the future of CI looks like!

ASPE RICHMOND CHAPTER NEWSLETTER

PRESIDENTS MESSAGE | ISTVAN GODRI MARTIS, CPD

Dear Fellow ASPE Members,

I would like to thank everyone who came out to the September meeting. I apologize for the inconvenience caused by the ongoing construction work in the conference room. Hotel management confirmed that the work in the conference room is finalized so we should be okay for our October 15th meeting.

Between September 17th–20th I was in Chicago at the ASPE Convention and Exposition.

During the first two days I attended the GPD (Green Plumbing Design) workshop. The Green Plumbing Design certificate program, developed by ASPE and IAPMO, is for engineers and designers who would like to advance their skills in sustainable plumbing system design. The workshop included a four part self-study pre-course session that can be accessed on IAPMO website. The pre-course is focused on the different certification programs on the market and general ideas why it makes sense to do green design. The two day on-site workshop course is more in depth and covers areas such as alternative water systems, condensate recovery, efficient hot water design, solar water heating, system audits, etc. At the end of the two day workshop there is an exam with 50 questions. I am happy to announce that just yesterday I found out that I successfully passed the exam and I received my Green Plumbing Design Certificate. For more information about the program please visit <https://aspe.org/GPD> or email me at istvanm@ccrd.com.



On Saturday and Sunday we had the delegate business meetings where we found out what the Society and Chapters have achieved in the past 2 years and what the goals are for the upcoming years. We discussed and voted for the proposed by-law changes. One of the most important changes– that would have a positive effect on the Society – is to have less stringent requirements for who can step-up at Chapter level and take a seat on the Board of Directors. Once the updated by-laws are posted I will share them with all of you. We also elected the new Board of Directors. The new Society President is Mitch Clemente and we reelected our Region 1 Director Rui Paul Silvestre. For a complete list of the 2014–2016 ASPE Board of Directors please visit <https://aspe.org/BoardOfDirectors>.

Monday September 20th was the first day of the two day Expo show where hundreds of manufacturers presented their latest products for the plumbing community. I had a chance to learn about new products that just arrived on the market and even products that are in testing stage at this point and scheduled to be launched into production within the next year. I am pleased to see major investments in development of new products that are more efficient, provide increased safety for users and involve less maintenance.

ASPE RICHMOND CHAPTER NEWSLETTER

Tuesday and Wednesday entailed a multitude of technical sessions that were available for participants with topics covering all aspects of the plumbing industry, from entry level plumbing system design classes to specialty system design.

The ASPE Convention wasn't limited to workshops, long business meetings and an overwhelming Expo show. We had many opportunities to meet other ASPE members from across USA, Canada and even plumbing community leaders from Japan. We had a chance share experiences while waiting for the famous deep dish pizza and to make new friends while grabbing some cold beer and listening to live music at the Sloan House of Blues Convention Opening Party.



Overall it was a great experience and if you have not already, I would highly recommend that you attend one of the future Conventions or Technical Symposiums. The next Technical Symposium will be in St. Louis, MO, in 2015, followed by the 2016 Convention in Phoenix, AZ.

As you know this year's Chicago Convention was the 50th anniversary of the Society. Our Richmond Chapter's 50th anniversary will be in 2018.

ASPE RICHMOND CHAPTER NEWSLETTER

If you have not already, please join ASPE; I am attaching a membership application in the pages below. For all of you who are already members, I would like to say THANK YOU for your continuous support. If you are a past member who did not renew, NOW is the time to JOIN with half off of the first year membership cost and you will retain your old ASPE member number and history in the Society for free.

To all the manufacturers, equipment vendors and industry representatives, if you are interested in advertising in our newsletter or doing product presentations at tabletops during our monthly meetings please send John Lansing an email at J.Lansing@ha-inc.com. Thank you for your continued support!

I am looking forward to seeing you all on October 15th, 2014, at the next meeting.

Sincerely



Istvan Godri Martis



TECHNICAL REPORT | JIM MCCOLLUM

It's time to get ready for another holiday season, and the typical race to the finish line of 2014! Hopefully everyone will save a slot for the Richmond Chapter meeting each month. After all, where else can you "get away" for an hour or so and possibly pick up some new engineering tips or enhance your professional network at the same time? Even better, you might have the opportunity to contribute to our collective engineering knowledge base.

Thanks to Kevin Sponable of M&G DuraVent, for last month's presentation on Venting Systems for fuel fired equipment! Kevin is obviously another great asset to the engineering community.

Thanks again to John Cain for the great "Quick Tip" last month that comes from the 2012 Virginia Construction Code, page 128. This tip could "save some unnecessary open site drains" for projects in Virginia...

Q-Tip #2014-01:

The VA amendments to the 2012 IPC now list an ASSE 1024 backflow preventer as an acceptable device to protect the water supply to coffee machines and noncarbonated beverage dispensers. The ASSE 1024 device does not

ASPE RICHMOND CHAPTER NEWSLETTER

have the intermediate relief as does the ASSE 1022 device and therefore will not require a drain outlet. An ASSE 1022 device is still acceptable for this service. Note that this is a VA amendment to the IPC and does not apply to jurisdictions that have not adopted a similar amendment.

For reference, the VA amendments can be found at <http://www.dhcd.virginia.gov/index.php/va-building-codes/building-and-fire-codes/regulations/uniform-statewide-building-code-usbc.html>.

Refer to 2012 VA Construction Code, Page 128.

Remember, I'm looking forward to getting "Quick Tips" from our membership each month. The idea is to email or even text a short message describing the information or item that you feel could be a significant help to someone else in the industry. I will assist and serve as a filter for repeats, and a researcher for accuracy before we present to the membership for use.

The October Richmond Chapter meeting presentation will be on The Evolution of Cast Iron Pipe, focusing on new products, codes, approvals, etc. Our presenter will be Pat McQuillan from New Age Casting. Don't miss it... I'll bet you'll be surprised at what the future of CI looks like!

Our September meeting was in the Lobby of the Holiday Inn Express due to an unfinished construction project going on in and around our typical meeting room. We've been notified that the project is complete, and our meeting room is ready for use again this month. Hope to see everyone there!

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PLUMB FEST 3

WHEN

**Wednesday
October 22, 2014
11 AM - 2 PM**

WHERE

**Richmond Plumbing Specialties/ MSC Equipment
1625-1823 Hamilton Street
Richmond, VA 23230**

Lunch provided – Lee's Chicken and more!

E-mail: richmondplumbing1@gmail.com
Telephone 804-358-8815

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PLUMBING
INDUSTRY**

**Over 300 plus
in attendance
2013**

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Representatives
Maintenance Departments
Restaurant Maintenance
Engineers/Architects
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Mechanical Contractors
Home Inspectors
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DPOR Licensed Journeyman & Master Plumbers, HVAC, & Gasfitter Tradesmen
Including Anyone Interested in the Upcoming Code Changes.

Would you like to:

- ✓ Get your required DPOR Continuing Education Credits in one day, at one location for one economical price
- ✓ Have experienced instructors (local code officials) assist you with applying the words in the code to designs on the plans and installations in the field
- ✓ Receive training on the 2012 Virginia Codes which went into effect on July 14th, 2014

**When: Tuesday October 14th, 2014
(7:45 am – 4:30 pm)**

**Where: Chesterfield County Government Center
9800 Government Center Pkwy
Chesterfield, Virginia 23832**

**Contact: Skip Harper
skipharper@vpmia.org**

**Plan to arrive 30 minutes before class to sign-in
First class begins promptly at 7:45 am**

Start & End times for individual trades:

Plumbing: 7:45 am – 11:00 am

Gasfitter: 11:15 am – 12:15 pm

HVAC: 1:15 pm – 4:30 pm

**Plumbing: \$50.00 Plumbing/Fuel Gas: \$50.00 Plumbing, Mechanical, Fuel Gas: \$100.00
Mechanical: \$50.00 Mechanical/Fuel Gas: \$50.00 Fuel Gas only: \$25.00**

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Engineered Pump Systems • Grinders • BIM Models

Friday, September 12, 2014

11:00 am EST

Two Ways to Register:

1. Click this link
<https://attendee.gototraining.com/r/3673302682421055746>
2. Scan here to log in and register using a smart phone or tablet →




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libertypumps.com • 800.543.2550



For questions, contact
Laurie Pfaff @ 585-494-1817

Virginia Marketing Associates

David Dahl
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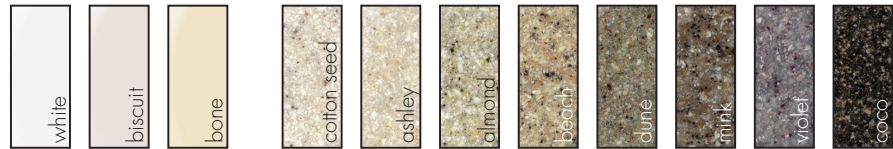
One Source for a SEAMLESS FINISH

COMFORT DESIGNS SOLID SURFACE features

- designer finish color options
- custom mold flexibility
- configurable accessory locations
- high gloss, solid surface
- seamless
- nonporous
- inhibits bacteria growth
- resists stains and odors
- easy to clean
- Class A fire retardant
- renewable
- LEED credits

solid surface

STRONG, LONG LASTING, SEAMLESS,
NON-POROUS, TEN YEAR WARRANTY

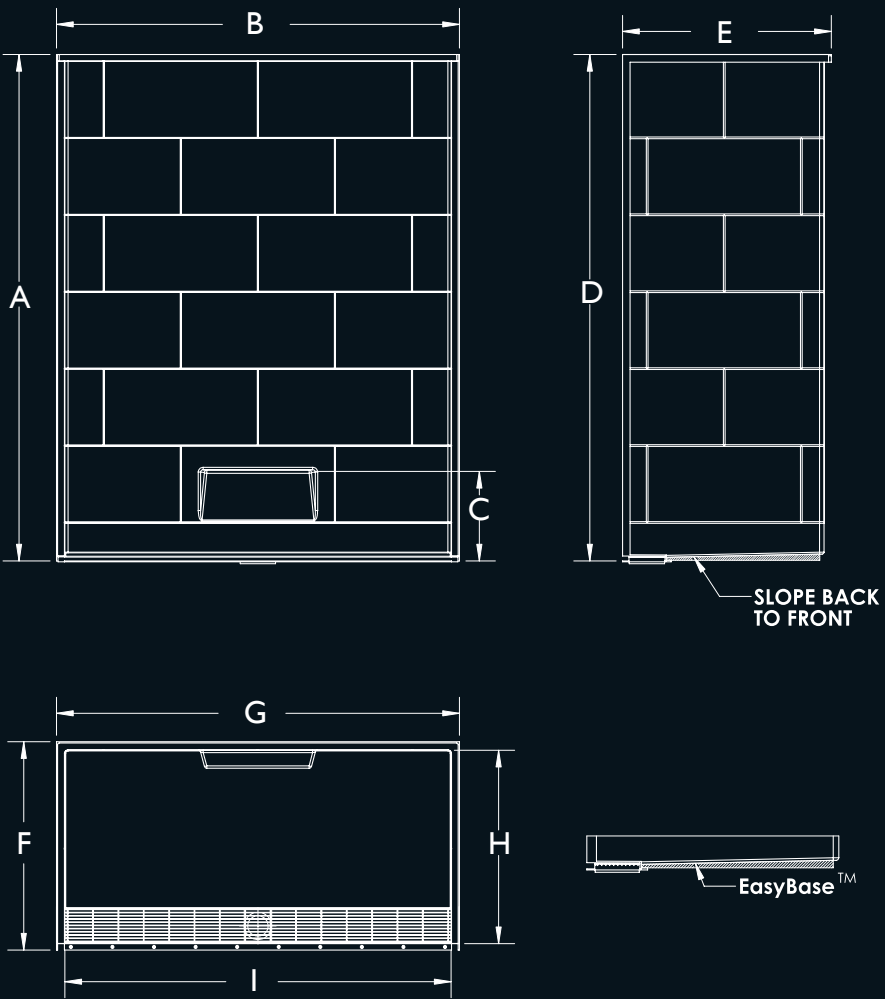


Multi-piece trench shower systems are available only in white, biscuit or bone gelcoat.

Why settle for ordinary when you can have extraordinary? Solid surface is unmatched in its strength and durability which is achieved through a material thickness that exceeds ABS plastic, gelcoat and cast acrylic by four fold. Because of the exceptional strength and durability of Comfort Designs Solid Surface, it is offered with a Ten Year limited warranty.

Durability, Strength, Renewability Solid surface is known for its durability, strength and renewability. The non-porous surface resists stains, odors and is easy to clean. Bring all the features and benefits of solid surface sought in high-end kitchens and healthcare to your project - Choose Comfort Designs Solid Surface.

Rich, Lustrous Finish Comfort Designs Solid Surface is offered in two finishes- solids and simulated granite blends. Depth of color radiates upward from deep within. The eye sees deep into the color. The translucence is astoundingly rich.



36" x 36" ID CODE COMPLIANT
3838 TR .75
A: 78" B: 38.5" C: 14"
D: 78" E: 37.375" F: 38.5"
G: 38.5" H: 36" I: 36"

48" x 36" ID CODE COMPLIANT
5038 TR .75
A: 79" B: 50.625" C: 14"
D: 79" E: 38.5" F: 38.5"
G: 50.625" H: 36" I: 48"

48" x 48" ID CODE COMPLIANT
5050 TR .75
A: 78" B: 50.25" C: "
D: 78" E: 50.25" F: 50.25"
G: 50.375" H: 48" I: 48"

60" x 30" ID CODE COMPLIANT
6232 TR .75
A: 78" B: 62.625" C: 14"
D: 78" E: 32.5" F: 32.5"
G: 62.625" H: 30" I: 60"

60" x 36" ID CODE COMPLIANT
6238 TR .75
A: 78" B: 62.625" C: 14"
D: 78" E: 38.5" F: 38.5"
G: 62.625" H: 30" I: 60"

COMMERCIAL specification managers

WILL RICE
VP of Sales and Marketing
Southern Region
cell 731.438.0162
wrice@praxiscompanies.com

JIM BARNEY
Regional Specification Manager
Mid America Region
cell 731.607.8597
jbarney@praxiscompanies.com

JACKSON LIGHT
Regional Specification Manager
North East Region
cell 731.438.0535
jlight@praxiscompanies.com

TIM MCKEY
Regional Specification Manager
West Region
cell 731.727.7460
tmckey@praxiscompanies.com

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customer service: 800.443.7269 | fax: 731.925.4290

Commercial Specification

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Integral trench shower systems

STANDARD features and options

TRENCH
zero threshold design

corrosion resistant aluminum body
compression style drain connection

GRATE
stainless steel resistance weld construction

1/8" compliant space between slats
contemporary design - 21 water barrier slats
tamper proof option available

BASE
EasyBase™ pre-leveled floor reinforcement

sloped from back to front
slip resistant textured floor
water tight tiling flange
1/16" radius at floor / wall transition

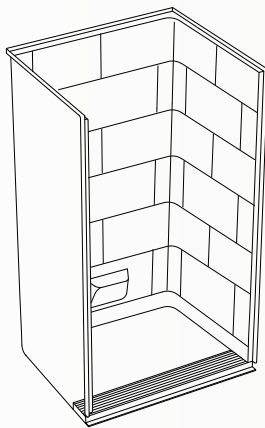
COMFORT DESIGNS
one source solutions

Eliminate the old center drain and the second exterior bath floor drain with an effective, patent pending solution for water retainment- the trench drain shower. The Comfort Designs trench drain shower is easy to install, offers an offset drain and reversible trench attachment allowing alternative fit in center beam clearance situations. The Comfort Designs trench drain grate is removable allowing for easier cleaning.

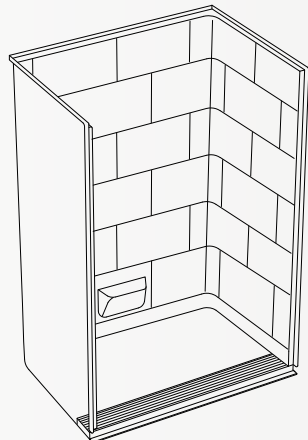
fully integrated
trench shower
system



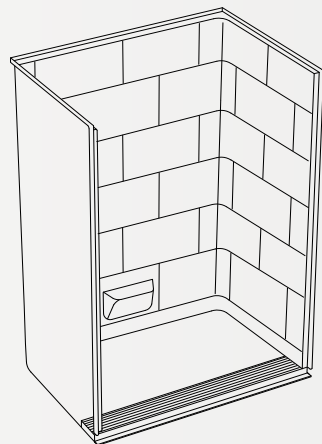
ONE PIECE TRENCH SHOWER SYSTEMS



36" CODE COMPLIANT
SST3838TR.75(1P)

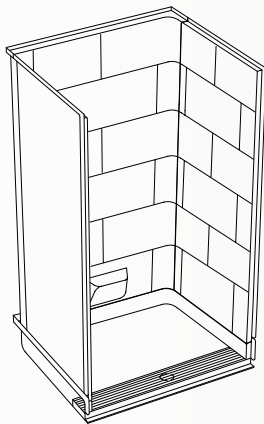


48" CODE COMPLIANT
SST5038TR.75(1P)
SST5050TR.75(1P)

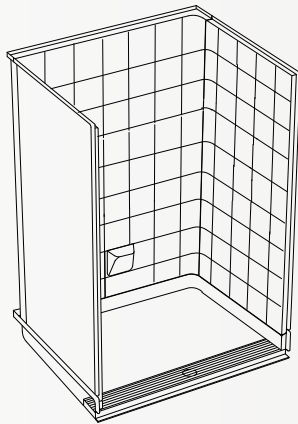


60" CODE COMPLIANT
SST6232TR.75(1P)
SST6238TR.75(1P)

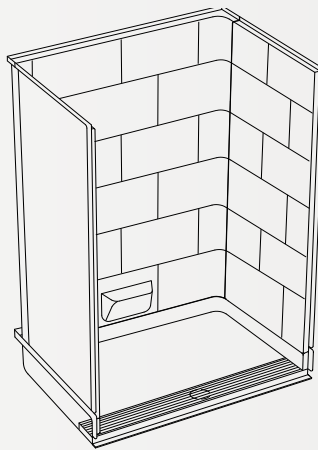
MULTI-PIECE & BASE TRENCH SHOWER SYSTEMS



36" CODE COMPLIANT
XST3838TR.75(4P)
SSB3838TR.75(Base)



48" CODE COMPLIANT
XST5050TR.75(5P)
SSB5050TR.75(Base)



60" CODE COMPLIANT
XST6232TR.75(5P)
SSB6232TR.75(Base)
XST6238TR.75(5P)
SSB6238TR.75(Base)



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INTEGRAL TRENCH shower systems
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With the industry's broadest trench offering, Comfort Designs offers nine models in two different finishes as well as two trench only options for pure tile designs. Our models will meet design needs for new construction, remodeling and wet room applications.

ONE PIECE TRENCH SHOWER SYSTEMS

The Comfort Designs one piece seamless shower system offers water tight time saving installation. General Contractors and more importantly your projects are not delayed by labor intense job built showers. The synthetic subway tile imprint has shallow faux grout lines preventing mold and mildew and the return flange option provides a professional sheetrock finish.

MULTI-PIECE TRENCH SHOWER SYSTEMS

Renovation has taken priority in many construction projects due to dense development and constrained healthcare budgets. Comfort Designs has developed a patented aluminum pin and slot assembly system for our multi-piece shower systems. With the low profile 3/4" threshold height, our trench shower system is designed to install on slab with no depression requirement. CD has three multi-piece models to choose from. The wall system is superior in design with 1/16" radius wall to wall joints. These are the tightest in the industry and are designed to disappear in the grout lines.

BASE TRENCH SHOWER SYSTEMS

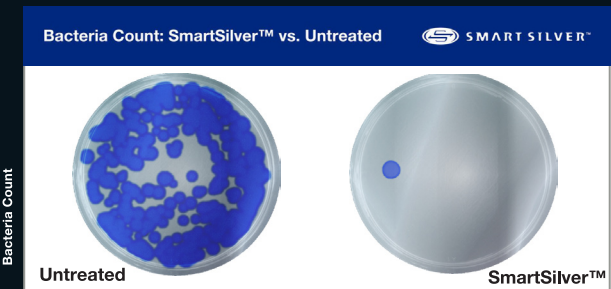
Comfort Designs recognizes the design criteria of some will remain job built. For these needs, we offer the trench plus base only option in three sizes. The water tight tile flange accepts any ceramic tile up to 1/2" thick. The EasyBase™ pre-leveled floor reinforcement eliminates the need to job build properly drafted grout beds. The slope to the trench drain is built into the base. All bases are sloped from the back wall to the front trench drain area.

SmartSilver™ Antimicrobial Protection

Built-in constant protection against bacteria, molds and fungi

Reap the unique benefits of SmartSilver™ Antimicrobial Protection. SmartSilver™ Antimicrobial Protection combines the natural antimicrobial properties of silver with ground-breaking proprietary technology to produce molecule-sized silver particles permanently embedded in your Comfort Designs bathware. The result is continuous, effective, built-in protection against mold, fungus and bacteria.

SmartSilver™ Antimicrobial Protection uses pure silver particles and is manufactured in the USA. The unique antimicrobial protection is permanent. While the silver is effective against 600+ species of bacteria and fungus, there are no human health effects. SmartSilver™ Antimicrobial Protection is a Green Technology product and uses reclaimed raw materials. Available on solid surface or gelcoat products.



SmartSilver™ Antimicrobial Protection exhibits a 99.4% reduction on odor-causing bacteria within 24 hours. Silver is effective against 600+ species of bacteria and fungus.

| | |
|---------------------------------|---|
| Clean | SmartSilver™ Antimicrobial Protection is optional on all Comfort Designs gelcoat bathware. SmartSilver™ incorporates an antimicrobial Silver additive right into the shower surface to provide protection from mold, mildew, algae and fungus that could cause deterioration or staining. |
| Effective | SmartSilver™ Technology inhibits the growth of bacteria in the shower at very low concentrations of silver. |
| Long Lasting | SmartSilver™ product protection is engineered to protect Praxis gelcoat bathware for the life of the product. |
| Environmentally Friendly | Comfort Designs bathware with the option SmartSilver™ Antimicrobial Protection eliminates the need for adding environmentally harmful organic biocides. |
| Safe | SmartSilver™ Antimicrobial Protection is EPA-approved under FIFRA for broad applications and Oeko-Tex approved as free of harmful levels of dangerous substances. |
| Made in the USA | SmartSilver™ Antimicrobial Protection and Praxis Products are 100% developed and produced in the U.S.A. |



ASPE RICHMOND CHAPTER NEWSLETTER



**ADVERTISING
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We Need You**

Newsletter Advertising:

- Rates based on ad size and will include the following:
 - As a paid advertiser you will have your business card in the newsletter that will have a link to your Web page if you have a Web page
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 - Ads for the year will begin in the September issue and run through the May issue
 - Advertisers wishing to join after September's issue will be billed on a prorated basis
- All payments will be collected prior to the October issue –failure to make payments will result in the ad being pulled from further issues.
 - 2 Page ASPE Member \$475
 - Full page ASPE Member \$375
 - ½ page ASPE Member \$275
 - ¼ page ASPE Member \$175

Monthly Sponsorship Opportunities

The Richmond Chapter of ASPE continues to have successful meetings and is looking to continue improving throughout the year. The strong foundation that began in September is the springboard for an even better year than last year.

Last year the Chapter initiated the following sponsorship opportunities that were well received:

Tabletop Presentations - Opportunity to provide a tabletop presentation of equipment or material relative to the plumbing profession for a monthly meeting. The tabletop will be set up from beginning to end of the monthly meeting.

If you are interested in any of the sponsorship opportunities listed above OR any other opportunities to sponsor please contact John Lansing

j.lansing@ha-inc.com

MEMBERSHIP APPLICATION

(Please Print or Type)



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INCOMPLETE APPLICATIONS WILL NOT BE PROCESSED.

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First Name (Nickname) Middle Name Last Name

Birth Date: M ___ /D ___ /Y ___ Check all that apply: ☐ P.E. ☐ P. Eng ☐ CPD ☐ Graduate Engineer ☐ LEED AP ☐ CET ☐ Other _____

I wish to affiliate with the _____ Chapter. Certification (P.E.) State _____ Certificate No. _____ Branch _____

Preferred Mailing Address ☐ RESIDENCE ☐ BUSINESS

RESIDENCE: Street Address City State ZIP Phone

E-mail (required) Business E-mail Cell Phone

BUSINESS: Organization Name Your Title Phone Fax

Street Address City State ZIP

Other organizations you are a member of: ☐ ASHRAE ☐ ASSE ☐ NFPA ☐ NSPE ☐ ASME ☐ PHCC ☐ ICC ☐ IAPMO ☐ SFPE ☐ Other _____

EDUCATION

| | Name of Institution | Course or Major | From | To | Graduation Date | Degree/Diploma |
|--------------------|---------------------|-----------------|------|----|-----------------|----------------|
| High School | | | | | | |
| College/University | | | | | | |
| Technical School | | | | | | |
| Others | | | | | | |

PROFESSIONAL EXPERIENCE

(This section must be completed as it affects membership grade classification. List chronologically, beginning with the present. Work description must be clear and concise: e.g., plumbing, piping, fire protection, HVAC, etc. Use additional sheet as necessary.)

| Date(Mo/Yr) | From | To | Firm Name and Address | Class* (see below) | Title | Description of Work | Degree of Responsibility |
|-------------|------|----|-----------------------|-----------------------|-------|---------------------|-----------------------------|
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

*Classification of Firm
A - Arch./Engr. or Cons. Engr.
D - Educ. Inst.
B - Govt. Agency
E - Contractor
C - Mfr. or Mfr's. Rep.
F - Other (Explain) _____

REFERENCES

(References should be in engineering profession. ASPE members preferred. ASPE reserves the right to contact references.)

| Name | Address | Telephone |
|------|---------|-----------|
| | | |
| | | |
| | | |

PLUMBING ENGINEERING DESIGN HANDBOOK

New members receive one of four volumes of the this definitive collection of general plumbing practices. As an ASPE member you will be sent the CD-rom unless you indicate preference for the softcover edition. If you would like both the CD-rom and softcover editions, please add \$50 to your total to the right.

☐ CD-ROM ☐ SOFTCOVER

CERTIFICATION BY APPLICANT

The undersigned certifies that all statements made herein are correct and, if elected to the Society, agrees to adhere to the Society's Bylaws and accept the Classification conferred by the Society. Upon becoming a member, the applicant will endeavor to advance the objectives of the Society and the plumbing engineering profession.

Signature of Applicant _____ Date _____

Sponsor _____
(Please Print)

How did you hear about ASPE? ☐ Past Member ☐ Plumbing Engineer Magazine ☐ Colleague/Employer ☐ ASPE App ☐ Website

☐ Other _____

American Society of Plumbing Engineers member dues are nonrefundable and not deductible as a charitable expense, but may be deductible as a business expense.

* Contributions to ASPE Education (create education programs for membership) and Alfred Steele Scholarship (to award college scholarships) Funds are Strictly Voluntary and are not deductible as a charitable contribution but may be deductible as an ordinary and necessary business expense.

** Contributions to the ASPE Research Foundation are Strictly Voluntary and are tax deductible as a charitable contribution.

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REMIT MEMBERSHIP DUES WITH APPLICATION

| Member Type | Amount | Amount Due (Enter Amount) |
|--|--------|------------------------------|
| <input type="checkbox"/> Full | \$ 190 | \$ _____ |
| <input type="checkbox"/> Associate | \$ 170 | \$ _____ |
| <input type="checkbox"/> Affiliate | \$ 190 | \$ _____ |
| <input type="checkbox"/> Special | \$ 190 | \$ _____ |
| <input type="checkbox"/> Governmental | \$ 190 | \$ _____ |
| <input type="checkbox"/> Student | \$ 30 | \$ _____ |
| <input type="checkbox"/> PEDH CD & Book | \$ 50 | \$ _____ |
| <input type="checkbox"/> ASPE Alfred Steele Scholarship Fund* | \$ 25 | \$ _____ |
| <input type="checkbox"/> ASPE Education Program Fund* | \$ 25 | \$ _____ |
| <input type="checkbox"/> ASPE Research Foundation** | \$ 25 | \$ _____ |

TOTAL AMOUNT DUE \$ _____

Payment Information:

☐ Enclosed is my check payable to ASPE.

Please charge my: ☐ Visa, MasterCard ☐ Discover ☐ American Express

Card # _____

Exp Date: _____

Signature: _____

Date: _____ Telephone: _____



Immediate Member Benefits

The Plumbing Engineering Design Handbook: The most definitive collection of general plumbing practices in the field of plumbing engineering. The ASPE Handbook consists of forty-seven chapters divided into four volumes. New members receive one of four volumes immediately upon joining and the revised volume thereafter.

Plumbing Engineer Magazine: Members immediately begin receiving *Plumbing Engineer* magazine. This monthly magazine covers a wide spectrum of topics important to the profession and to daily practices in the field.

The ASPE Report: The Society's bimonthly newsletter, incorporated within the *Plumbing Systems & Design* magazine, keeps members abreast of Society activities and issues impacting the profession.

Publication and Education Program Discounts: All publications, education programs, and other services and products of the Society are offered at special discounted rates to ASPE members.

Collegial Interaction and Networking

Every ASPE member not only belongs to ASPE worldwide, but has the opportunity to belong to one of 62 Chapters organized throughout the United States and Canada. Chapters sponsor seminars, conduct monthly technical meetings, publish newsletters and offer special peer-to-peer and professional-to-professional interaction and networking opportunities.

Professional Growth and Development

The ASPE Biennial Convention and Engineered Plumbing Exposition (EPE) is the premier educational and professional development event for plumbing engineers and designers. The Convention features a comprehensive program of educational, technical and professional development presentations and seminars designed to enhance professional knowledge and foster awareness of new techniques. The concurrent EPE is the largest Exposition dedicated entirely to the field of plumbing engineering.

The ASPE Technical Symposium is offered in non-Convention years and provides a unique forum for the most comprehensive and intensive half-day and full-day plumbing engineering design seminars and workshops available anywhere. The "hands-on" workshops provide the plumbing engineer with information about new developments in the industry and new techniques for practical implementation in the field.

Technical Seminars and Workshops sponsored by ASPE offer one- or two-day programs conducted by leading industry professionals. Each educational program focuses on a specific area of plumbing engineering.

Continuing Education Units (CEUs): ASPE offers the opportunity to earn Continuing Education Units at selected technical program sessions at the biennial Convention, the Technical Symposium and at stand-alone Seminars and Workshops. CEUs are nationally recognized units of achievement that may be used as evidence of increased performance capabilities and for job advancement.

The Society shall be open to anyone involved in, or having a special interest in, the design, specification or drawing of plumbing systems.

Dues: Please choose the appropriate membership classification and remit dues with this application. In the event the membership classification is changed, a corrected dues statement (or dues overpayment refund) will be sent with your notice of election.

Membership Classifications

Membership classification (Grade) will be conferred based on Article II of the ASPE Bylaws as follows:

Full Member: Eight (8) years of experience in plumbing engineering or related engineering field, a minimum of four (4) years of which must have been in a position of responsibility for the design of plumbing systems or in a position of responsibility for the design of systems and components related to, or incorporated within, plumbing engineered and designed systems. A maximum of four (4) years of experience may be waived by the Society Membership Committee for: (a) Education: one-half (1/2) year for each completed year in a curriculum related to plumbing engineering; (b) Engineering Registration: four (4) years for Professional Engineer registration in a field that includes plumbing engineering; (c) CPD certification: two (2) years. Dues: \$190.

Associate Member: Professionals engaged in plumbing design as consultants or engineers with fewer than eight years of industry experience. Dues: \$170.

Affiliate Member: Any individual involved in the production or marketing of plumbing products. Dues: \$190.

Retired Member: Any retired member with ten (10) years of continuous membership in the Society who has reached the age of sixty (60) years and is no longer active in the profession. Members in this category will not receive Plumbing Engineering Design Handbook materials and shall pay substantially reduced annual dues. Dues: \$40.

Special Member: Professionals in related fields, such as contractors, or those with a special interest in plumbing design whose professional background do not match the requirements for any of the other categories may apply for Special membership. Dues: \$190.

Governmental Member: Anyone employed by municipal, state, or federal governments for one of the following reasons:

- A. Checking and/or inspection of plumbing plans and installations;
- B. The formulation of codes, rules, requirements and regulations pertaining to the planning, designing and installation of plumbing systems, or any portion of a plumbing system;
- C. Research and development of plumbing systems design criteria. Exception: Persons employed by a government agency for the purpose of designing and/or specifying plumbing systems, who shall be eligible to be Full or Associate members, provided they have fulfilled the experience required as outlined for each respective classification. Dues: \$190.

Student Member: Any individual attending a recognized university, college, community college, vocational, or technical trade school full time or part time in a curriculum related to plumbing design. Student Members are considered to be an introductory level to the Society. Student membership shall be limited to five (5) years after which time the membership shall be upgraded to an applicable membership classification as deemed appropriate by the Society. Other member classifications shall not be permitted to downgrade to a Student Member classification. Dues: \$30.