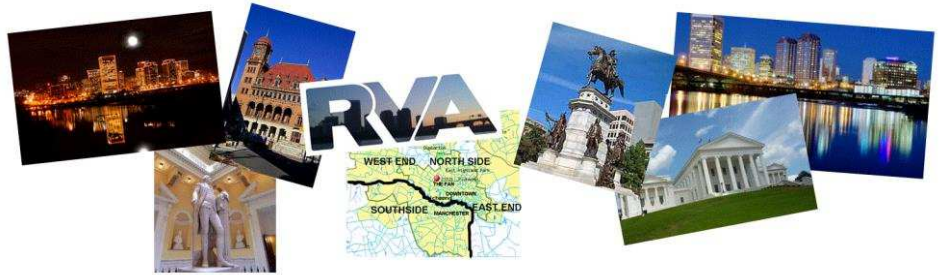

ASPE RICHMOND CHAPTER NEWSLETTER



LOCAL INDUSTRY NEWS

RICHMOND'S LEED GOLD HIGH-RISE SET TO LEASE BY END OF THE YEAR

<http://www.claycorp.com/p/23296/gateway-plaza/>

VIRGINIA RANKS 17 NATIONALLY FOR LOW WATER USE

The Pacific INSTITUTE'S Water Use Trends Report found that Virginia's Residential Per Capita Water Use ranks 17 on a national scale. [See here for the full report.](#)

PROJECT HIGHLIGHTS

Have a project you would like featured in the newsletter? Submit your project info or photos to j.lansing@ha-inc.com and receive a free lunch at the next meeting!

ASPE RICHMOND CHAPTER NEWSLETTER

ASPE RICHMOND PRESIDENT'S LETTER

Dear Fellow ASPE Members,

I would like to thank everyone who attended our April meeting. Special thanks to our speaker Bob Radford – Viega, and all of our tabletop sponsors.

This month's meeting topic will be Tankless Water Heaters for Commercial Applications presented by Nick Brizendine. For this meeting, all the engineers in attendance will have their lunch provided courtesy of Coastal Sales and Willoughby Industries; just bring your business card!

Believe it or not, this Wednesday is the last meeting for the 2014–2015 season. For the next three months we will take a break and prepare for our return in September. I would like to thank all those members who, month after month, came out to the meetings to learn about new products, solutions to existing/current plumbing problems or to socialize and network. Thank you!

I would also like to say thank you to the Board of Directors: James McCollum, John S. Lansing, Eric Scott, Jay Otto, W. Lesemann Jr., and Tina M. Capece. Thank you for working hard and committing your time and energy to our organization; I appreciate it and I am sure the members do as well.

At the May meeting we will have the election for the new Board of Directors. If you would like to be on the ballot please let me or any of the Board members know; you can also write in at the meeting. For now I have the following names on the ballot: myself, Istvan Godri Martis – President; Joshua Landis – VP Technical; John S. Lansing – VP Legislative; Robert V Grubbs – VP Membership; Jay Otto – Administrative Secretary; Eric Scott – Treasurer; W. Lesemann Jr. – Chapter Affiliate Liaison / Resource Enhancement Chairperson; Robbie Shearon – Corresponding Secretary; Tina M. Capece – Chapter Education Chairperson. I am very excited to have candidates for all the positions on the Board, new members joining the Board who have not previously held positions and even members who previously held positions on the Board rejoining the team. I think it will be a successful next season here at the ASPE Richmond Chapter; I am looking forward to it!

I would like to wish you all a GREAT summer, plenty of sunshine, fun-filled weekends and long, relaxing vacations!

I am looking forward to seeing you all at the meeting on Wednesday May 13th at 11.30am.

Istvan Godri Martis, CPD, GPD | istvanm@ccrd.com

President

ASPE Richmond Chapter



ASPE RICHMOND CHAPTER NEWSLETTER

LEGISLATIVE REPORT | JOHN S LANSING

INTERNATIONAL PLUMBING CODE CHANGES TO STORM DRAINAGE

Virginia will likely soon be adapting the new 2015 International Plumbing Code. This new edition features a complete overhaul of storm drainage system sizing. This major change was instigated by [a study](#) released by ASPE Research Foundation which tested various storm drains with respect to their flow.

To summarize this report, their research concluded that roof drain models of a given size failed to deliver uniform flow through the storm drainage system. In addition, many of the roof drains tested did not match the flow of the attached piping. This was contrary to what was previously understood, as it was assumed that the flow through a roof drain would be equivalent to the flow through an open pipe of the same diameter. This misunderstanding was reported to cause pressure differentials in the system leading to excessive ponding, roof collapse and pipe fitting separation (Ballanco, 2012).

In response to this, manufacturers of roof drains will soon be required to undergo flow testing. The results of this testing will be available to the engineer when selecting roof drains. In addition, storm drainage flow will no longer be measured by equivalent roof area (ft²), but rather in actual units of flow (gpm). This can be calculated by multiplying the rainfall rate by the equivalent area.

CALCULATING STORM DRAIN SIZES

Calculating the flow can be accomplished by multiplying the rainfall rate by the equivalent area.

$$\text{rainfall (in)} \times \text{Equivalent Area (ft}^2\text{)} \times \left(\frac{1 \text{ ft}}{12 \text{ in}}\right) \times \left(\frac{7.48 \text{ gal}}{1 \text{ ft}^3}\right) \times \left(\frac{1 \text{ gpm}}{60 \text{ gph}}\right) = \text{storm flow (gpm)}$$

The conversion factors can be simplified, resulting the following equation:

$$\frac{\text{rainfall (in)} \times \text{Equivalent Area (ft}^2\text{)}}{96.26} = \text{storm flow (gpm)}$$

Once manufacturers begin providing flow information for roof drains, this information will be used along with the equation above to determine the flow through each branch.

The IPC storm drain sizing tables have been replaced by tables in units of flow (gpm). Just as when sizing based on square feet, the flow shown in the table will serve as the flow limit for each pipe size at a given slope. For example, the table shows that a 3" pipe will have the maximum capacity of 55 gpm when sloped at 1/8"/12".

ASPE RICHMOND CHAPTER NEWSLETTER

I provided a link to the report above, if you're interested. Feel free to email me if you have questions on this or any other changes in the upcoming code adaption.

John S Lansing, CPDT, LEED Green Associate | j.lansing@ha-inc.com

Vice-President; Legislative
ASPE Richmond Chapter

BIBLIOGRAPHY

Ballanco, J. P. (2012). *Storm Drainage Research Project*. Chicago, IL: ASPE Research Foundation.

ASPE RICHMOND CHAPTER NEWSLETTER

EDUCATION REPORT | TINA CAPECE

I would like to congratulate the following member on passing their CPD and the new CPDT exam.

CPD

John Ryan Cutright, P.E., CPD	Richmond
Kimberly L. Griffin, CPD	Richmond
Joshua Haas Landis, CPD	Richmond
Michael Shane Miller, CPD	Richmond
Jeff L Mortensen, CPD	Richmond
Kevin R Sherlock, CPD	Richmond

CPDT

Lansing LEED Green Associate, CPDT, John	Richmond
Merkel CPDT, Randall W., CPDT	Richmond

Wow, the season is over, and this month is our last meeting for the season. I hope next year we can bring back more plumbing design classes, but I need your input on what you would like to see.

ASPE RICHMOND CHAPTER NEWSLETTER

Below are a list of topics, if you see any that you would like to see, check the box and send it to me. If I get enough interest in a specific class, I will make it happen. If there is a topic that I haven't put down and you would like to attend, please feel free to email me your topic.

- Drainage and vent system, sizing and designing

- Storm drainage, sizing and designing

- Water piping design and sizing

- Hot water systems, designing and sizing – including recirculation

- Pump sizing and selection – booster pumps, sewage ejectors and sump pumps

Tina Capece | tina.capece@ha-inc.com

Vice-President; Education
ASPE Richmond Chapter

NewAge Epoxy Soil Pipe

Durable. Dependable. Affordable.



High quality coatings for years of service!

This product information sheet will thoroughly explain the coating process, use and applications for NewAge epoxy coated cast iron soil pipe. The cured epoxy is stable, tough, and resistant to corrosive chemicals. Epoxies are excellent surface coatings, inert to chemicals and high temperatures, adhere well to cast iron resulting in a very long life for our NewAge Epoxy system.

There is a difference between paint and epoxy coatings. Paint is a liquid that dries to form a thin colored layer when it is spread on a surface. Epoxies are a class of thermosetting polymers. Two part epoxies are combined with a curing agent that when mixed reacts to form a complex group of linking monomers.

While epoxy coated cast iron is relatively new to the United States, it has been used extensively throughout the world for many years. Epoxy coated pipe endures effluent chemical combinations found in waste systems today. NewAge epoxy pipe complies with ASTM standards

and EN-877.

Along with standard storm drainage and DWV applications epoxy coated cast iron is intended to be used in excessive corrosive conditions between 2-12pH. The epoxy coating builds upon the excellent service and long life that cast

iron already provides.

Epoxy coatings outperform oxidized asphalt pipe coatings and emulsified asphalt fitting coatings.



There has been misinformation stated in our industry that epoxy coatings are volatile and hazardous in the United States, when in fact many epoxy coatings are manufactured in the United States and their emissions, VOC (Volatile Organic Compounds) and HAP

(Hazardous Air Pollutants) are regulated and are well within safe limits set forth by the EPA. This information is included on manufacturers' MSDS files which ASTM and CISPI standards mandate be made available. Epoxy coatings are low in VOC.

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11:00 am EST



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Pump specifications and BIM models are also available on the Liberty Pumps website.
libertypumps.com • 800.543.2550



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Laurie Pfaff @ 585-494-1817

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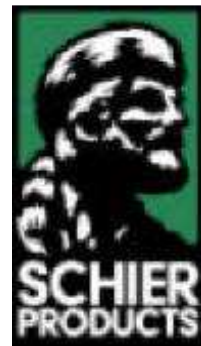
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solid surface

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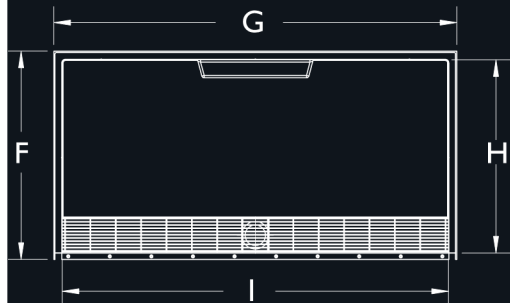
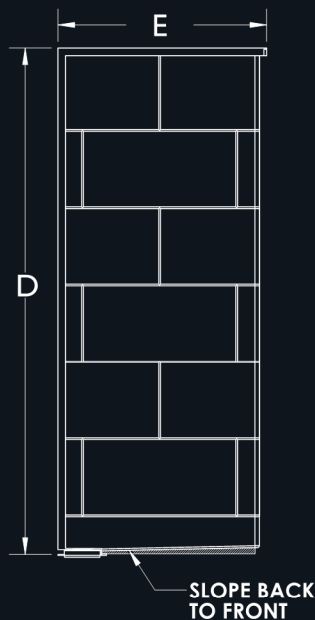
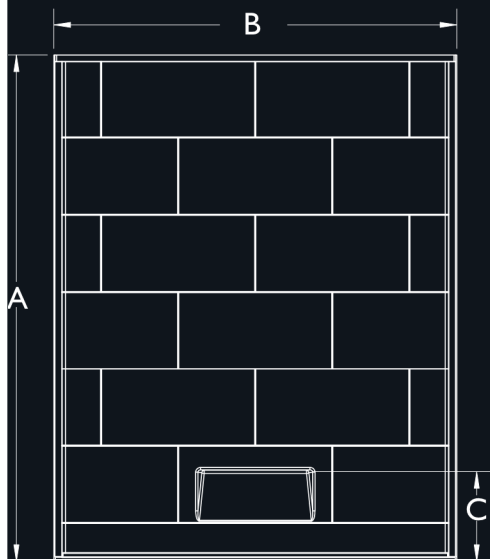


Multi-piece trench shower systems are available only in white, biscuit or bone gelcoat.

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

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 D: 78" E: 38.5" F: 38.5"
 G: 62.625" H: 30" I: 60"

Commercial Specification

COMMERCIAL specification managers

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TIM MCKEY

Regional Specification Manager
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 tmckey@praxiscompanies.com



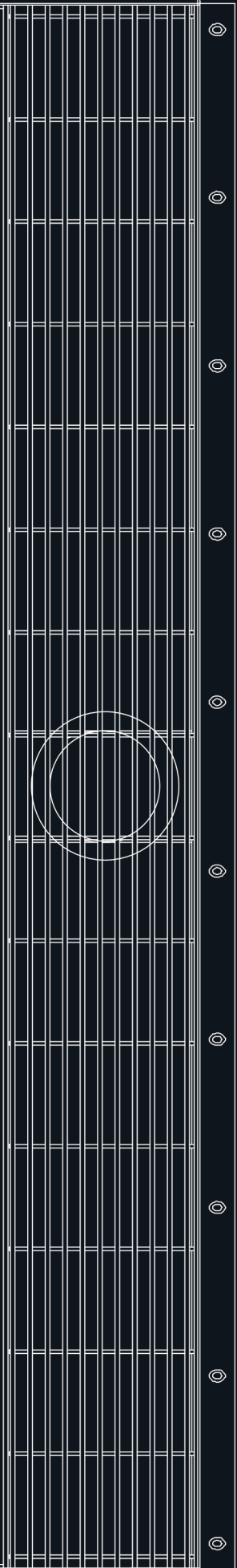
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Integral trench shower systems

Eliminate the old center drain and the second exterior bath floor drain with an effective, patent pending solution for water retention- 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.

STANDARD features and options

TRENCH trench

zero threshold design

corrosion resistant aluminum body

compression style drain connection

GRATE grate

stainless steel resistance weld construction

1/8" compliant space between slats

contemporary design - 21 water barrier slats

tamper proof option available

BASE base

EasyBase™ pre-leveled floor reinforcement

sloped from back to front

slip resistant textured floor

water tight tiling flange

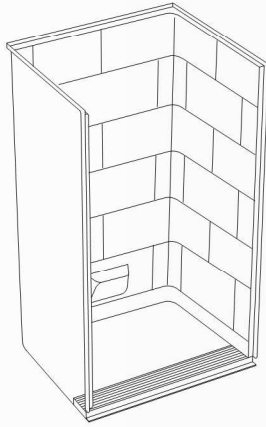
1/16" radius at floor / wall transition

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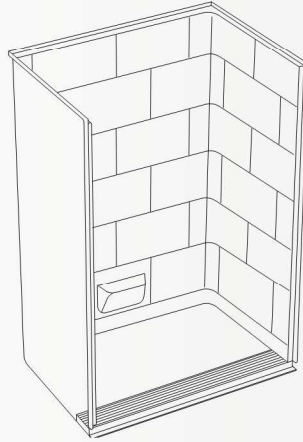
*fully integrated
trench shower
system*



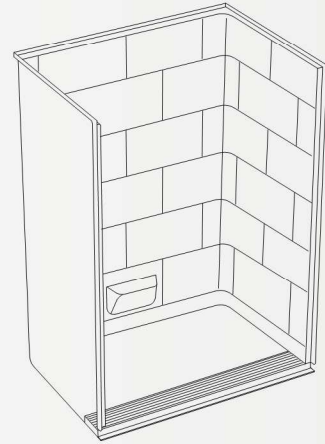
ONE PIECE TRENCH SHOWER SYSTEMS



36" CODE COMPLIANT
SST3838TR.75(IP)

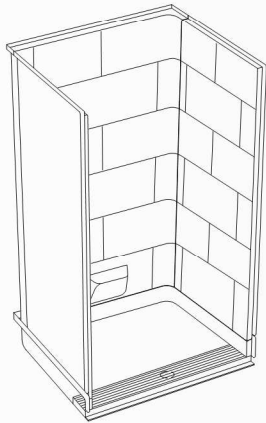


48" CODE COMPLIANT
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SST5050TR.75(IP)

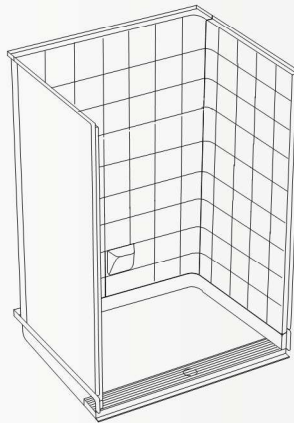


60" CODE COMPLIANT
SST6232TR.75(IP)
SST6238TR.75(IP)

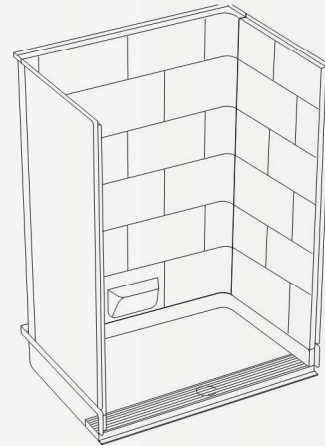
MULTI-PIECE & BASE TRENCH SHOWER SYSTEMS



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)



INTEGRAL TRENCH shower systems

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customer service: 800.443.7269 | fax: 731.925.4290

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 $\frac{3}{4}$ " 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 $\frac{1}{16}$ " 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 $\frac{1}{2}$ " 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



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- Rates based on ad size and will include the following:
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- 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

POSITION DESCRIPTION

Design Engineer II

Title:	Plumbing Design Engineer II	Posted:	January 11, 2015
Reports to:	Engineering Department Manager	Type:	Non-exempt
Department:	Mechanical Engineering		

Nationally and internationally recognized MEP-FP consulting firm HCYU Building Engineered Solutions (<http://www.hcyu.com/>) seeks skilled Plumbing Design Engineer II for immediate full time employment in our Richmond office.

General Description

The Design Engineer II is an essential team member who participates in producing the firm's work. No longer considered to be in-training, these people are assigned specific tasks on project teams and are expected to use their education, intelligence and common sense to resolve the engineering problems and tasks they are assigned.

Relationships

- Reports to Engineering Department Manager
- Project workload determined and assigned by Senior Design/Engineers
- Within team, has contact with drafters and senior design staff.
- Will work with equipment suppliers to obtain equipment information

Qualifications

- Knowledge, skills and abilities
 - Expertise in the use and application of computer aided design software such as AutoCAD and Revit.
 - Expertise in the use of discipline specific software as well as general business applications.
 - Ability to read and understand architectural, structural and civil plans.
 - Understanding of applicable design codes.
- Education
 - Technical or Associate Degree in plumbing or mechanical design from an accredited technical institution or college or equivalent combination of education and experience.
- Experience
 - Three years of technical design experience in a design firm.
 - Demonstrates the ability to perform successfully as a Design Engineer I.

Authority & Accountability

- Has authority to perform moderately complex design duties, which are checked for accuracy by others.
- Keeps Senior Design/Engineer and/or Department Manager aware of work load and requests work when needed.
- Expected to continue learning process by attending in-house seminars and continuing education opportunities outside the office.
- Completes projects within budget.
- Ability to understand scope and successfully complete projects within specified requirements.

Time Allocation

- Projects: 90%
- Administration: 10%
- Or as otherwise determined by the Board.

The following duties are typical of the position but are not all encompassing. Each person is expected to help out in whatever duties are required to deliver a quality product on schedule.

Essential Functions

- Makes calculations using engineering formulas and skills for plumbing design.
- Creates specialized drawings such as flow schematics, plumbing isometrics and riser diagrams.
- Select equipment based on recommendations of Senior Design/Engineer and fill out equipment schedules.
- Provide drawings for own designs and produce sketches to incorporate in drawings by drafters.
- Research design options and document findings for Project Design/Engineer.
- Provide information to Project Design/Engineer for incorporation into specifications.
- Review shop drawings.
- Research code issues and ask general questions of code officials.
- Organize and maintain project files.
- Assure that drawings and designs are in accordance with company production and design standards.
- Keep Lead Engineer informed of work load and any changes in project scope or additional services.

Additional Functions

- Reviews work performed by CAD Technicians and Designer I
- Assist in site surveys performed by more senior designers and/or engineers

Working Conditions

- Working conditions are normal for an office environment.
- Work requires willingness to work a flexible schedule.
- May require evening and weekend work.
- Located in a Class A space in downtown Richmond, our company offers excellent work environment.
- Equal Opportunity Employer (EOE).

Promotion

- May be promoted to Engineer II after meeting the qualifications for the position.
- May be promoted to Project Design Engineer, Project Engineer, or Construction Administrator after meeting the qualifications for the respective positions and consistently demonstrating expertise as Design Engineer II.

Application

- Reply with Résumé
- Applicants only: Recruiters, please do not contact this job poster.

Compensation

- Negotiable, depending on experience and ability.
- Excellent Employee Benefits: 15 Paid Time Off days, Employer Group Health Insurance Plan, Life Insurance, and Disability.

MEMBERSHIP APPLICATION

(Please Print or Type)



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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)	Firm Name and Address	Class* (see below)	Title	Description of Work	Degree of Responsibility
From To					

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