

**EXHIBIT A**  
**WEATHERIZATION ASSISTANCE PROGRAM**  
**STANDARD PRICE LIST**

**Need to procure prices.**

**EXHIBIT B**

**TOOLS AND EQUIPMENT LIST**

Tools/Equipment	Company Owned?	If Yes, Enter Quantity	If No, Do You Have Immediate Access?	Source If Not Owned?
Digital Gauged Blower Door	<input type="radio"/> Yes <input type="radio"/> No		<input type="radio"/> Yes <input type="radio"/> No	
Digital Gauged Duct Blower/Blaster	<input type="radio"/> Yes <input type="radio"/> No		<input type="radio"/> Yes <input type="radio"/> No	
Insulation Machine	<input type="radio"/> Yes <input type="radio"/> No		<input type="radio"/> Yes <input type="radio"/> No	
Freon Reclaimer	<input type="radio"/> Yes <input type="radio"/> No		<input type="radio"/> Yes <input type="radio"/> No	
Pressure Pans	<input type="radio"/> Yes <input type="radio"/> No		<input type="radio"/> Yes <input type="radio"/> No	
Carbon Monoxide Analyzers/Leak Detectors/Personal CO Monitor/Respirators	<input type="radio"/> Yes <input type="radio"/> No		<input type="radio"/> Yes <input type="radio"/> No	
Digital Cameras	<input type="radio"/> Yes <input type="radio"/> No		<input type="radio"/> Yes <input type="radio"/> No	
Infrared (IR) Cameras	<input type="radio"/> Yes <input type="radio"/> No		<input type="radio"/> Yes <input type="radio"/> No	
Flow Hood Reading	<input type="radio"/> Yes <input type="radio"/> No		<input type="radio"/> Yes <input type="radio"/> No	
AC/Heat Gauges	<input type="radio"/> Yes <input type="radio"/> No		<input type="radio"/> Yes <input type="radio"/> No	
Foam Insulation	<input type="radio"/> Yes <input type="radio"/> No		<input type="radio"/> Yes <input type="radio"/> No	
	<input type="radio"/> Yes <input type="radio"/> No		<input type="radio"/> Yes <input type="radio"/> No	
	<input type="radio"/> Yes <input type="radio"/> No		<input type="radio"/> Yes <input type="radio"/> No	
	<input type="radio"/> Yes <input type="radio"/> No		<input type="radio"/> Yes <input type="radio"/> No	
	<input type="radio"/> Yes <input type="radio"/> No		<input type="radio"/> Yes <input type="radio"/> No	
	<input type="radio"/> Yes <input type="radio"/> No		<input type="radio"/> Yes <input type="radio"/> No	
	<input type="radio"/> Yes <input type="radio"/> No		<input type="radio"/> Yes <input type="radio"/> No	
	<input type="radio"/> Yes <input type="radio"/> No		<input type="radio"/> Yes <input type="radio"/> No	
	<input type="radio"/> Yes <input type="radio"/> No		<input type="radio"/> Yes <input type="radio"/> No	

## EXHIBIT C

### AMY YOUNG BARRIER REMOVAL AND HOMES FOR TEXAS HEROES GENERAL WORK SPECIFICATIONS

Plumbing Specifications: ADA compliant lavatory specifications .....	40
Plumbing Specifications: ADA compliant toilets .....	42
Plumbing Specifications: ADA Compliant Kitchen Sinks and Faucets .....	43
Job notes and contract information: .....	45
Accessible Shower Stall .....	46
Grab bar specifications: .....	49
Shower / Bath tub seat specifications: .....	50
Medicine cabinet specifications: .....	52
ADA compliant Shower Valve Specifications: .....	52
Ramp Specifications: .....	53
Additional specifications required per project .....	54
Door specification information .....	54
Installation Guidelines .....	55
Ceramic Tile Specifications .....	55

**Note: Be advised that the General Specifications can and will change over time. It will accompany each Description of Work (DOW) you bid on. It will be your responsibility to keep current with the appropriate requirements.**

#### **Contact Information and Special Instructions**

The construction contract has a liquidated damages clause in it and your firm will be held responsible for not completing this project in the time frame allocated. It is the contractor's responsibility to contact AACOG and document rain day exceptions and any other unforeseen events. It will be up to the discretion of AACOG to determine if claims made for any time extensions to this contract are reasonable and valid.

Upon awarding of the contract to your firm by AACOG please contact the homeowner and arrange for a pre-construction meeting. During this meeting discuss your timeline for completion of this project. Discuss any special needs you may need to complete this project. Please ask the homeowner if they have any special needs and or concerns about this project. AACOG will send the Notice To Proceed, to start the project.

Possible issues to discuss:

1. Where do your workers park?
2. Where is material to be delivered?
3. What time is work to begin and end and on what days?
4. What about small children?
5. What about pets?
6. What about bathroom accommodations?

*Please leave an emergency contact phone number with the homeowner in case something was overlooked during the day and homeowner needs to contact you after work hours.*

Please clean the work area at the end of each work day. Dispose of all trash and debris. Make sure that when you leave for the day that the homeowner has access to the plumbing fixtures. Make sure that any utilities that were turned off earlier in the day are functional prior to your departure.

All of the materials that are required for this project have particular model specifications. Any deviation from the list of allowable material will result in non-payment. Variation from the attached specifications is not encouraged; if there is no other option available then all changes in materials must be approved by AACOG staff in writing. You will be assigned an AACOG inspector for your project. If the project is located in a building jurisdiction that has an ongoing building permit and inspection program, then you will be required to obtain all necessary building permits and inspections. If the project is in a rural area without an ongoing inspection program then the AACOG Inspector will perform the required inspections. Do not cover any inaccessible area until the appropriate inspections are obtained. Contact the AACOG Inspector for required inspections

Please follow the EPA Repair, Remodeling and Painting Rule (RRP), which went into effect on April 22, 2010. <http://www.epa.gov/lead/pubs/renovation.htm> . All contractors that disturb a painted surface in any pre-1978 house and are compensated must be registered with the EPA as a Lead Renovator Firm. Additionally, each certified renovator firm must have at least one employee certified with the EPA as Lead Certified Renovator. The EPA documentation for your firm must be on file at AACOG prior to beginning any work. At the end of each project that consists of a pre-1978 house you will be asked to submit the following documentation:

1. Any Lead Base Paint (LBP) test results with all appropriate EPA required documentation.
2. The renovator recordkeeping checklist
3. The post renovation cleaning verification report
4. The non-certified worker training documentation
5. Signed receipt by homeowner regarding delivery of the "EPA Renovate Right" pamphlet, which can be obtained at 1-800-424-5323.

Do not wait until the end of the job and to produce these documents. They are intended to be produced at the beginning of the job and continue as the job progresses. These documents record the lead-based paint safe worker practices your firm employs to protect the health and safety of your employees as well as the occupants of the house. As of August 2016 EPA, is assessing a \$40,000.00 a day penalty for contractor non-compliance. If you have any questions regarding safe worker practices or EPA RRP compliance please contact Homero Salinas [HSalinas@aacog.gov](mailto:HSalinas@aacog.gov)

All Accessibility modifications, specification and instructions for this project are based on the information found in the Architectural Barriers Texas Accessibility Standards (TAS) <http://www.tdlr.state.tx.us/ab/abtas.htm>. Be advised, the most recent Texas Accessibility Standards went into effect on March 15, 2012.

If you would like additional information, the 2010 ADA Standards for Accessible Design (<http://www.ada.gov/regs2010/2010ADAStandards/2010ADAStandards.pdf>) actually has better instructions and user friendly diagrams for the placement of grab bars and the location of plumbing fixtures.

AACOG Project Inspector: Alicia Avila  
Peñalver [aavilapenalver@aacog.gov](mailto:aavilapenalver@aacog.gov)  
Andre Fuhrman [AFuhrman@aacog.gov](mailto:AFuhrman@aacog.gov)  
Homero Salinas [HSalinas@aacog.gov](mailto:HSalinas@aacog.gov)

Please give the AACOG Inspector a minimum of 24 hours' notice for an inspection request.

All electrical, building, plumbing & HVAC trades shall obtain the appropriate permits and inspections for the work being under taken. If you are not sure what permits are required contact the building code enforcement official within the project's jurisdiction? If you are in a rural area without ongoing code enforcement policy, contact Homero Salinas <HSalinas@aacog.gov> for all required inspections.

### **Plumbing Specifications: ADA compliant lavatory specifications**

The following three ADA compliant Lavatories' are acceptable for use. Any variation is not encouraged and for unforeseen reasons if these products are unavailable a written and approved change order approving another brand will be required for you to receive payment.

**Fixture and accessory suppliers are listed below, for your convenience. You are under no requirement to purchase from these suppliers. You are required to purchase these specific fixtures with the accessories listed. You can also mix and match for example, and use one specified lavatory with any specified faucet.**

**Product specification:**  
**Source: Hughes Supply Co.**

Seasons Wall Mount Lavatory. Vitreous China, 19 1/8-inch X 17-3/8-inch Rectangle. 4-inch center. Front overflow. ADA compliance Color: WHITE.

#### **Accessories shall include the following items:**

- Two handle Lavatory Faucet-Moen 8800. ADA compliant. 4-inch wrist blade style handles with hot and cold color indicators. Operation: ¼ turn to open. ¼ turn to close. Aerator is limited to 2.2 gpm (8.3l/min)
- Brigade ADA molded Drain and supply covers. ADA compliant Kits designed to fit on all tubular and cast brass P-trap assemblies. Bacteria and Fungus resistant. Trap cover: WHITE. Supply cover: White. Maintenance: common detergents. Model # BR11133 or BR11134, trap, 2-supply and offset cover kit: WHITE
- TWO -½ inch X 3/8-inch compression quarter turn angle stops –CP. Brand-Brigade
- TWO Braided lavatory connector- 3/8 Compression X ½ FIP X 16-inch S/S Lavatory Flex supply line- Brigade
- Two each PLM-PROD PF5 5/8 OD Flanges
- Brigade BR10297 1-1/2 PVC Tube P-Trap bag \*02PVCBG
- One PLM-PROD PFSA12-1/2 X 3-inch S/G Flange
- One 5 Inch off set tail piece strainer assembly.( For Wheel chair use)

**Product specification:**  
**Source: Ferguson supply**

**20-inch X 18-inch wall hung lavatory. 4- or 8-inch faucet drillings. ADA compliant High Backsplash Wall mount bracket included, Concealed front overflow. COLOR: WHITE. Model # 4'OC 3-hole PF5514WH, 8-inch center, 3-hole PF5518WH**

**Accessories shall include the following items:**

- Delta lavatory Faucet Single Handle Deck mounted. 3-hole sink applications 4-inch center set. ADA compliant Lever handle. Model # 501-DSTMaximum 1.5 gpm flow rate @ 60PSI.
- Pro-Flo PFPTP100/PFPTP200 Series Plastic SJ Tubular P Trap. PFTP 100-1/1/4 X 11/2 Plastic SJ Tubular P-Trap. I ADD 5 inch off set tail piece wheelchair strainer.
- Proflo PF200 Series Trap covers. / ADA and USAF compliant Universal design fits virtually all lavatory applications. Antimicrobial vinyl maintains sanitary conditions. Fire retardant. Maintenance: Use common detergents Model # PF203WH@)@WH-One p-trap cover, two angles stop valves and supply covers, and 1 5/8-inch offset tailpiece wheelchair strainer assemble cover.
- One-Proflo Escutcheons PFE11-Fitis 1-1/2-inch pipe and the PFE10 fits 1/14-inch pipe. Chrome plated steel or polished brass.
- Two- Proflo Escutcheons PFE & fits 5/8 OD pipe. Chrome plated.
- Two-Speed Plumb plus Braided Faucet connector-compression inlet Part B1-16A- = Brass craft 3/8 Compression X 1/2 inch FIP X 16 inches supply lines.
- Two Brass craft 1/2 nominal comp X3/8 OD comp quarter turn angle stops
- One 5 Inch off set tail piece strainer assembly. (For wheel chair use)

**Product specification:**

**Source: Moore Supply Co.**

Kohler-Kingston wall mount Lavatory K-2005 Vitreous china. Wall mounted with hanger. ADA compliant. 21 1/4 inches X 18-1/8 inches. Color: WHITE. 4-inch centers, 8-inch centers or single hole. SEE ADA installation guide spec sheet.

**Accessories shall include the following items:**

- Moen- Chateau single handle Lavatory faucet. AFDA compliant. Flow is limited to 1.5 gpm @ 60psi. Metal construction. Temperature controlled by 100-degree arc of handle travel. Model # MOL64621
- Two 1/4 Turn Angle stops. Compression X compression- Brass craft G2CR19C- Chrome plated.
- One flange escutcheon I 1/4 inch OD chromes plated-Tubular, PlumBest.
- Two flange escutcheons. 5/8-inch OD.-chrome plated- PlumBest
- Two-Speedi Plumb Plus Braided Faucet connector-compression inlet. Brass craft 3/8 Compression X 1/2 inch FIP X 16 inches supply lines. (Typical Installation) B112A
- LAV Guard-ADA compliant under sink protection. Bacteria/ Fungus Resistance. Maintenance: Use common detergents. Color: China White. Material: Molded vinyl.

Unit includes One P-trap cover, two angle stop valves, and supply covers, one 5 inch offset tailpiece wheelchair strainer cover.

- One P9704BG 1 ½ PVC P-Trap w/ adapter bag. With tailpiece. With one 5-inch offset tailpiece wheelchair strainer.

### **Plumbing Specifications: ADA compliant toilets**

The following three ADA compliant elongated vitreous china toilets are acceptable for use in this contract. Any variation is not encouraged and for any unforeseen reasons if these products are unavailable a written and approved change order approving another brand will be required for you to receive payment.

**The supply houses where these fixtures and accessories may be found have been listed for your convenience. You are under no requirement to purchase these items from these suppliers. You are however required to purchase these specific fixtures with the accessories listed.**

#### **Product specification:**

**Source: Fergusons Enterprises, Inc.**

The elongated bowl toilet shall be made of vitreous china. Toilet shall be 29-3/4 inches in length, 18 inches in width and 31-1/4 inches in height with an 11-3/8-inch X 8-inch water area. Toilet shall be 1.28 gpf (4.8 lpf). Toilet shall include polished chrome trip lever. Toilet shall have a 2-1/8-inch glazed trap way. Toilet shall be 12 inches rough-in. Kohler model K-3999 is acceptable. Color: WHITE

#### **Accessories shall include the following items:**

- Proflow molded wood construction elongated toilet seat. - Model # PFTSW2000
- Proflow Heavy duty wax Ring
- Proflow Solid Brass Closet Bolts
- One- chrome plated steel and polished brass Escutcheon –standard type
- One -1/2 inch X 3/8-inch compression quarter turn angle stops
- One Speedi-plumb PLUS Braided Toilet connector-Compression Inlet supply line

#### **Product specifications:**

**Source: Moore Supply Co.**

Vortens- Vienna Plus ADA Model 3123-3412. 2-1/8 inch fully glazed Trap way. 1.6 gpf/6.0 lpf. 8-inch X 7 Inch water suRFPce High gloss Vitreous China. With 12Inch rough in. 16 ½ inches High. ADA compliant. Color: WHITE

#### **Accessories shall include the following items:**

- Bemis 3000TT molded wood, multi coat enamel finish, elongated.
- One ¼ inch Turn angle stop-compression
- Chrome plated steel escutcheon
- One Speedi-plumb PLUS Braided Toilet connector-Compression Inlet supply line
- Heavy duty wax Ring-John-ring Brand Solid Brass Closet Bolts

#### **Product specifications:**

**Source: Hughes Supply**

Hymont 31054 or 31056 17 ¼ inch low consumption closet Vitreous China. ADA

compliant. Bowl 1.6 gpf/6.0lph, elongated rim bowl with 12inch rough in. With vitreous china tank and cover with flush valve with backflow preventer and chrome plated trip lever. Color: WHITE

**Accessories shall include the following items:**

- Seasons Molded wood toilet seat, elongated.
- Brigade ¼ inch Turn angle stop-compression
- Chrome plated steel escutcheons
- Brigade Braided Toilet connector-Compression Inlet supply line-BR10030
- Heavy duty wax.
- Solid Brass Closet Bolts

**Plumbing Specifications: ADA Compliant Kitchen Sinks and Faucets**

**The supply houses where these fixtures and accessories may be found have been listed for your convenience. You are under no requirement to purchase these items from these suppliers. You are however required to purchase these specific fixtures with the accessories listed. You can also mix and match for example and use one specified kitchen sink with any specified faucet. Note: Be advised that there are color and size differences with these sinks.**

**Product specification:**

Dayton ADA compliant Sink. Sink is formed of #22-gauge, 300 series, and nickel bearing stainless steel. Top mount. Bowl depth: 5-3/8". Model # GE23321. ADA compliant-Coved corners: 3"vertical and 2-1/4" horizontal radius. Finish: Exposed suRFPces are polished to a satin finish. Underside: Undercoated on bottom of bowels. Drain opening; 3-1/2" Suffix L (left) or R (right) denotes location of drain

*Note: Unless otherwise indicated, sink is furnished with 3 or 4 faucet holes. This sink is listed by the International Association of Plumbing and Mechanical officials as meeting the requirements of the Uniform plumbing Code. This sink is designed for ADA compliance.*

**Required Accessories:**

**Source: Ferguson Enterprises, Inc. / Home Depot**

- Basket Strainers stainless Steel- Proflow Model # PF1431S.
- PFEWP100 series Plastic End outlet waste with baffle. 1-1/2"X 16 plastic End outlet waste
- Slip joint / direct connection. IAPMO listed.
- 1-1/2 P-Trap with waste arm.
- (2)Two-Speedi Plumb Plus Braided Faucet connector-compression inlet Part B1-16A- Brass craft 3/8 Compression X ½ inch FIP X 16 inches supply lines.
- (2) Two Brass craft ½ nominal comp X3/8 OD comp quarter turn angle stops
- (1)-Proflo Escutcheons PFE11-Fitis 1-1/2-inch pipe. Chrome plated steel or polished brass.
- (2) 5/8" OD Escutcheon Chrome plated.

**Product specification:**

MFG Brand Name: Thermocast -2-bowl kitchen sink, MFG Model #: 10400, MFG Part #:



10400

2-bowl kitchen sink-ADA compliant Durable high-gloss acrylic construction is scratch, chip and impact resistant for long-lasting use. Color: WHITE Supports quick and easy drop-in or under mount installation. Left bowl dimensions: 13-3/4 in. L x 16 in. W x 8-1/4 in. D; right bowl dimensions: 13-3/4 in. L x 16 in. W x 8-1/4 in., Stain-, rust- and oxidation-resistant finish protects the sink from corrosion and every day wear and tear. 4 pre-drilled holes for installation of a faucet, sprayer, soap dispenser or other accessories (not included) Store SKU # 545121-

Thermocast Beaumont Drop-In 33 in. x 22 in. 4-hole Double Bowl Kitchen Sink in Bone Model # 10401 Internet # 100341872-Store SO SKU # 796967 Source: Home Depot.2-bowl kitchen sink-ADA compliant, MFG Brand Name: Thermocast: Source: Home Depot

- MFG Model #: 10401
- MFG Part #: 10401
- Lifetime warranty
- 4 pre-drilled fixtures holes
- ADA Compliant: Yes
- Assembled Depth (in.): 9 in, Assembled Height (in.): 22 in,
- Assembled Width (in.): 33 in
- Collection Name: Traditions
- Color/Finish: Bone
- Depth: 9 in
- Manufacturer's Warranty: Lifetime Warranty
- Mount type: Self-Rimming, Number of Holes: 4.0, Sink Type: Self-Rimming.

**Required accessories for complete installation of ADA sink installation:**

Note: (2) Basket Strainers stainless Steel. Plastic end outlet waste with baffle. 1-1/2"X 16 .Slip joint / direct connection. IAPMO listed.1-1/2 P-Trap with waste arm. (2) 3/8 Compression X 1/2 inch FIP X 16 inches supply lines braided.(2) 1/2 nominal comp X3/8 OD comp quarter turn angle stops.(1) Escutcheon for 1-1/2-inch pipe. Chrome plated steel or polished brass. (2) 5/8" OD Escutcheon Chrome plated.

**ADA Compliant Faucet:**

**Source: Fergusons Enterprises, Inc.; Home Depot, Moore Supply, Hughes Supply, Appliance Parts, Guadalupe Lumber**

Moen-Chateau Single- lever handle Kitchen Faucet- ADA compliant. Model # M67425.

- Metal construction with either chrome plated, ivory decorative glacier or brushed chrome finish.
- 1/2" IPS connections will accept standard ball nose connection for 3/8" tubing. Lever style handle.
- Temperature controlled by 180-degree arc of handle travel. Will operate with less than 5 lbs. of force. Aerator is limited to 2.2 gpm.

**Product Description:**

- KOHLER ADA compliant single handle faucet. Source: Home Depot
- MFG Model #: K-10415-CP
- MFG Part #: 10415-CP
- Solid brass construction for long-lasting use and enjoyment

- Polished chrome finish. Single-control handle conveniently adjusts water volume and temperature
- Low-arc spout has a 9 in. reach
- High-temperature limit stop allows you to preset a comfortable maximum temperature to help minimize scalding. Lever handle is ADA compliant for ease of operation
- 22 in. stainless steel braided flexible supply hoses included

**Product Description:**

MOEN Legend Single-Handle Kitchen Faucet in Chrome –Source: Home-Depot, Fergusons Enterprises, Inc.; Home Depot, Moore Supply, Hughes Supply, Appliance Parts, Guadalupe Lumber - Model # 7300  
Internet # 100007815 / Store SO SKU # 477898

The MOEN Legend Single-Handle Kitchen Faucet in Chrome features a single-lever, ADA-compliant handle for easy water control and a 9 in. spout reach that offers great sink access.

- Chrome finish creates a bright, modern look
- Solid lever handle offers quick and simple water control
- 9 in. spout reach for ample sink access
- ADA compliant
- 3-hole installation with 1/2 in. IPS connections.

**Product Description:**

Glacier Bay Keelia Single-Handle Pull-Out Kitchen Faucet in Brushed Nickel –  
Source: Home Depot  
Store SKU # 497475  
MFG Model #: FP4A4066BNV  
MFG Part #: FP4A4066BNV

The Glacier Bay Keelia Single-Handle Pull-Out Kitchen Faucet in Brushed Nickel is constructed of solid brass. The lever handle meets ADA standards for ease of use in adjusting water temperature and volume. The pull-down sprayer features aerated and wide spray options, as well as a 48 in. braided hose for extended reach. Single-control handle conveniently adjusts water flow and temperature. High-arc spout has a 48 in. reach for added clearance  
Pull-out sprayer features 2 spray modes: aerated or wide spray  
48 in. braided hose for added convenience and longer reach  
Ceramic disc valve promotes smooth handle operation and a virtually drip-free performance  
Lever handle is ADA compliant for ease of operation  
Can be mounted with or without deck plate  
Fits 3-hole or 1-hole sinks with 8 in. centers

**Job notes and contract information:**

The “sources” for these products have been listed as a convenience to you. You are under no obligation to obtain these specific products from the sources identified above. It is the contractor’s responsibility to match the kitchen sink and faucet to the specific job requirements and needs of the client. Access durability, availability and ease of use by

the client of the unit should be the primary factors, in determining the correct fixtures to use. Please consult with end user of product.

Note: If the need arises to request a change order due to the unavailability of these products you will need to furnish all specifications and supporting documentation such as that listed above for the unit you are proposing to use. Any substitution shall be ADA compliant (Kitchen sink and faucet). No payment shall be made for any material, fixture and or accessory that are installed without written AACOG approval. If you have any questions/comments regarding these products please contact Homero Salinas [HSalinas@aacog.gov](mailto:HSalinas@aacog.gov)

### **Accessible Shower Stall:**

#### **PRE-FABRICATED FIBERGLASS ADA COMPLIANT SHOWER STALLS:**

Three (3) different models/suppliers are listed below for your convenience. The prefabricated multi-piece fiberglass shower stalls either come prepackaged with all the complete ADA accessibility requirements, plumbing accessories, shower valve, hand held shower head with 60-inch SS hose, trim kit, grab bars, hand held showers, curtain rod, shower curtain , water dam, drain, etc.... OR you can purchase these items to make a complete ADA compatible kit from each shower stall supplier. What is being specified / required from you is that a complete accessible shower stall with all the accessories be installed. Some of these suppliers sell the complete shower stall package with all accessories included and some sell the accessories as optional equipment. The choice is yours to make, however the pricing appears to be better if the package is obtained.

#### **Product Description:**

**Source: Accessibility Professionals Incorporated-1-877-947-7769**

1) 6030- EA 1  
FREEDOM ACCESSIBLE SHOWER

OR 6030-PKG EA 1. Includes shower, all accessories and shipping.  
FREEDOM ACCESSIBLE SHOWER Package with all accessories included.

OR 60"x 33 -3/8"BFPL LEFT DRAIN or RIGHT DRAIN, 5-piece, 1" barrier  
8" tile look, plywood reinforced walls, 3 molded soap dishes, Color: WHITE.

#### **PACKAGE INCLUDES THE FOLLOWING ACCESSORIES (shipped loose):**

- Padded 24"x16" Folding Bench with legs
- Collapsible Water Retainer
- Handheld Showerhead and Glide bar
- Pressure Balance Mixing Valve
- (2) x 24" Grab Bars, stainless steel
- (1) x 42" Grab Bars, stainless steel
- Curtain Rod, stainless steel
- Heavy Duty Weighted Shower Curtain, vinyl white
- 2" Caukless Drain

Shower stalls contain a 30-year warranty from manufacturer. Accessory warranties are specific to the accessory manufacturer. Accessible Showers are designed in compliance

with the following codes and standards: A.N.S.I. Compliant Showers-- A.N.S.I. Z124.2 Standards for Plastic Showers- I.P.C. International Plumbing Code-- U.P.C. Uniform Plumbing Code- CSA Standards- National Plumbing Code of Canada.

To receive contractor pricing submit your contractor information, License #, tax ID when ordering. These shower stalls can be ordered separately without any accessories or as a package deal with this Company. Ordering the shower package with the accessories included results in a lower cost.

**NOTE:**

**It is the Contractor's responsibility to confirm job site measurements and drain location. It is Critical that you order the correct shower stall that allows entry for wheel chair access into shower stall unless otherwise instructed. Order shower stall with no more than 3/4" threshold unless otherwise specified.**

**Product Information:**

Shower stall 6033 (60"X33") or 6031. (60"X 31") Molded five-piece gel coat/fiberglass shower. Diamond tile wall finish, Color: WHITE. Full wood backing, right or left-hand drain, with 3/4" threshold.

Codes: Designed and manufactured in compliance with the following standards and codes: A.SN.S.I. Z124.2 Standards for Plastic Showers. I.P.C. International Plumbing Code. U.P.C. Uniform Plumbing Code. Barrier Free.30-year warranty.

To receive contractor pricing submit your contractor information, License #, tax ID when ordering. These shower stalls can be ordered separately without any accessories or as a complete shower and accessory package. Ordering the complete shower and accessory package results in a lower cost. If you decide to order the accessories separately, see specification sheet for allowable shower stall accessories.

**Required Accessories:**

- (2) 24" X 1.25" Safety Bar-
- (1) 30" X 1.25" Safety Bar-
- (1) 22" X 16" Padded Swing down Seat- Model # SE2216PDS
- Mixing Valve and Handheld/Glide bar ACXSYM1001
- Caulk less Drain- Model # ACXDRAIN1000
- Stainless Steel Curtain Rod-Model # KACX ROD 59.5
- 66" X 74" Weighted Shower Curtain –Model # KACXCURT005
- Water-stopper water retainer-Model # KTWSG5S
- Semi-permanent Threshold-Model # TASMN57.13R.38D3

**NOTE:**

**It is the Contractor's responsibility to confirm job site measurements and drain location. It is Critical that you order the correct shower stall that allows entry for wheel chair access into shower stall. . Order shower stall with no more than 3/4" threshold unless otherwise specified.**

**Product Description:**

3) Accessible Environments Inc.1-800-643-5906, <http://www.acesinc.com>  
Showers stall 6030- 5-piece gel coat/fiberglass 60" x 30" wheelchair accessible shower,

white (standard). . Includes end drain-Right or Left; with ¾ inch threshold. CODES: Designed and manufactured in compliance with the following standards and codes: A.N.S.I. Z124.2 Standards for Plastic Showers; I.P.C. International Plumbing Code; U.P.C. Uniform Plumbing Code. This unit is sold as a shower stall only and the accessories indicated below shall be purchased separately. With this Firm, the cost is the same whether you but a complete package or the shower stall and all accessories separately. There is a significant price savings if you obtain contractor pricing by submitting your contractor information when ordering. This company wants you to tell them that the shower stall is for this program so that you can receive a price break.

Required Accessories:

- (One) 30 inch grab bar - GB30QSS
- (Two) 24 inch grab bars - GB24QSS
- 2 inch brass body drain - ACXDRAIN1000
- KACXSYM1008 Alsons Hand shower, Grab Bar, Hose, Symmons Valve
- Seat with legs - white, padded SE2216PDS
- Shower Curtain, rod and hooks  Symmons Chrome Fixed Shower Head
- ACXSYM1006 - Arm/Flange ACXSYM1005 -
- Water stopper kit 5 ft. - gray - KTWSG5 +

**NOTE:**

**It is the Contractor's responsibility to confirm job site measurements and drain location. It is Critical that you order the correct shower stall that allows entry for wheel chair access into shower stall. Order shower stall with no more than 3/4" threshold unless otherwise specified**

**\*\* Special Note\*\***

**If you choose to locate/ purchase this type of shower stall locally, it will have to meet the following requirements:**

Wheel chair accessible. ¾" or less threshold height. Comparable to same size as those specified above. L x W x H. 30-year manufacturer's guarantee.

Meets or exceeds these codes and or standards requirements: CODES: Designed and manufactured in compliance with the following standards and codes: A.N.S.I. Z124.2 Standards for Plastic Showers; I.P.C. International Plumbing Code; U.P.C. Uniform Plumbing Code.

Meets or exceed the specifications regarding the shower stall accessories.

Submit a change order request in writing with all of the accompanying documentation/specifications for the specific unit, regarding the above requirements and submit this request for approval.

**Do not purchase and or order any substituted item that deviates from the approved specifications unless you receive written approval from AACOG. If you or your sub-contractors install unapproved fixtures and or accessories you shall not be paid for those items. Approval after the fact for unauthorized fixtures, material and or accessories is a disallowed cost.**

**Note:**

These shower stalls come with a water stopper/retainer or collapsible water dam of some type to keep the water in the shower stall. The water retainer sometimes looks like an upside-down letter "T" which is caulked in place. A wheel chair can then run over it and it springs back into shape. In some instances, the Description of Work (DOW) may call for a Semi-Permanent Threshold to be installed and generally this is an optional threshold that is caulked in place with silicone caulking over the water retaining device. It can be removed at a later date if there is a reason to do so. If there is not a need for a wheel chair, the semi-permanent threshold will be specified to be installed in the shower stall. Be advised that these are two (2) separate items and the semi-permanent threshold may not come standard and you will have to order it as optional if it is being required in the DOW for a specific project.

**Grab Bar specifications:**

See the Texas accessibility Standards for grab bar placement, installation, load requirements. The 2012 ADA Standards for Accessible Design is also a good resource for useful information on this topic. Be sure to plan ahead and back block for the grab bars early in the process.

**General requirements:**

Grab bars and any wall or other suRFPces adjacent to grab bars shall be free of sharp or abrasive element and shall have rounded ends. Grab bars shall not rotate within their fittings. Grab bars shall be installed in any manner that provides a gripping suRFPce at the specified locations and that does not obstruct the required clear floor space.

Allowed structural strength stress shall not exceed material specifications used, when a vertical or horizontal force of 250 lbs. is applied at any point on the grab bar, fastener, mounting device or supporting structure.

It is the contractor's responsibility to plan ahead and back brace between framing members adequately to support the grab bar installation. While the Texas Accessibility Standards suggest specific height and measurements regarding the location and installation of the grab bars. It is strongly recommended that you consult the end user of the grab bar for the appropriate location. TAS determines the number of grab bars based on the size of the shower stall and also the size and location of the shower seat and tub seat. Your contract will list the specific number of grab bars to be installed, their specific lengths and the specific size of any required tub and or shower stall seat.

The following information is given as a guide as to where you might find various sizes of grabs bars.

**Source: Fergusons Inc.**

Grab bar-1/12-inch X36 inch grab bar Model # Pfgb36SF  
1 ½ inch SS grab bar with concealed flange  
Bar-18-gauge stainless steel.  
Rated to 250 lbs. ADA compliant.

Grab bar with concealed Snap-On Flange -1 ½ X 24-inch part number G13124 18-gauge

stainless steel meets 900 lb. pull when installed correctly. Meets federal specifications WW-P-541/8B, Amendment 1, 16 April 1990 Meets federal specifications for FHA, VA Hospital, private construction. UPC 717510131246- Hughes Supply

Grab bar with concealed Snap-On Flange -1 ½ X 36-inch part number G13136 18-gauge stainless steel meets 900 lbs. pull when installed correctly. Meets federal specifications WW-P-541/8B, Amendment 1, 16 April 1990 Meets federal specifications for FHA, VA Hospital, private construction. UPC 717510131369- Hughes Supply

Grab bar: SHL 12POL HL-1 ½, x12 inch polished grab bar. C.D. Sparling 18-gauge Stainless Steel with concealed Flanges. Cost 46.6818-inch grab bar  
24-inch grab bar, All the above available in 1 ¼ inch diameter. All grab bars to be backed blocked and able to support a 250 lb. load for 5 minutes. Source: Moore supply

### **Shower / Bath tub seat specifications:**

#### **General requirements for bathtub seats:**

The top of the bathtub seat shall be 17 inches minimum and 19 inches maximum above the bathroom finish floor. The depth of a removable in tub seat shall be 15 inches minimum and 16 inches maximum. The seat shall be capable of secure placement. Permanent seats at the head end of the bathtub shall be 15 inches deep minimum and shall extend from the back wall to or beyond the outer edge of the bathtub. Your contract will list the specific Tub seat to use if one is required.

#### **Shower stall compartment seat Specifications:**

Where a seat is provided in a standard roll in shower compartment it shall be a folding type , shall be installed on the side wall adjacent to the controls and shall extend from the back wall to a point 3 inches from the compartment entry.

Where a seat is installed in an "alternate roll in" type of shower stall it shall be a folding type and shall be installed on the front wall opposite the back wall and shall extend from the adjacent side wall to a point three inches of the compartment entry. The top of the seat shall be 17 inches minimum and 19 inches maximum above the bathroom finish floor.

Rectangular shower stall seats:

The rear edge of a rectangular seat shall be 2 ½ inches maximum from the back wall and 11/2 inches from the side wall. The front edge of the seat shall be 15 inches minimum and 16 inches maximum from the seat wall.

There are specific requirements for rectangular seats and "L -shaped "shower stall seats. Your specific contract will detail which one you are to use if required.

L-Shaped shower stall seats:

The rear edge of an "L -shaped "seat shall be 2 ½ inches maximum from the rear wall. The front edge 15 to 16 inches maximum from the seat wall. The front edge of the seat shall be 14 inches minimum and 15 inches maximum from the wall. The end of the" L" shall be 22 inches minimum and 23 inches maximum from the main seat wall. Seat should have no more than 1 ½ inch clearance from walls and should extend the depth of shower stall, allowing space for shower curtain at front of stall.

Wide section of L-shaped seat should project no more than 23 inches from wall; the narrow section, no more than 16 inches from wall it should be folding type and mounted to wall adjacent to controls. Structural strength of shower seats and their mounting devices should withstand more than 250 lbs. of force.

Shower seat:

Source: Hughes Supply. Non –stock item.

Hinged to Wall and also free standing. See DOW for which type.

ADA Bobrick 518 Left hand / B517 right Hand folding shower seat. Frame stainless steel clearance between frame and back wall to comply with ADA standards. 1 ½ inch clearance. Water proof fabric, Seat shall be able to lock in upright position when not in use.

Mustee & Sons. Model 390. 402 LH/RH seat. White L – shaped fold down wall mounted shower seat, Fire and mildew resistant. When installed correctly the wall mounted unit can support up to 400 lbs. Stainless steel hardware This unit meets ADA specifications as well as ANSIA117.16. .

Source: Accessibility professionals, Inc.

APFSSB2416NW-ShowerSeat 24X16 Folding bench, wall mounted with legs, padded White

Source: Accessibility professionals, Inc.

APCSSB2-180150NW-Shower Seat 18 X 15 folded Bench with legs, Padded White

Source: Accessibility professionals, Inc.

APCSSB2-300150NW Shower Seat 30 X 15 Folded Bench with Legs. Padded white

Source: Accessibility professionals, Inc.

APCSLR-320225PWS Shower Seat 32 X 22.5 L-Shaped reversible wall supported, Phenolic Solid white.

Bath tub Chair-Brand:

Source: Home Depot in store.

Safety First Adjustable Tub and shower chair

Moen White Mesh Free standing Shower seat -400 lb. capacity-- Model # 7100

Moen Glacier White Plastic Free standing Shower chair - -Model # 8060

Moen Glacier White Plastic Free standing Shower chair Model # DN 7030

Moen Glacier White Plastic Free standing Transfer Bench. Model # DN8065-Cost 172.87

Swanston 21-inch X 23.5-inch X 13-inch white folding shower seat. Model #



BF00023RH.000 Specify right or left hand.

### **Medicine cabinet specifications:**

**Source: Home Depot.**

Note: A substitution may be made on the medicine cabinets. This brand represents the material, design and finish features that are required, otherwise stipulated on DOW.

20-inch X 25 inch with mirror and wood frame

Color- White

24-inch X 26-inch Beveled mirror medicine cabinet

Color-oak

### **ADA compliant Shower Valve Specifications:**

#### **Note:**

The prefabricated fiberglass shower stalls either come prepackaged with all plumbing accessories, shower valve, trim kit, grab bars hand held showers, curtain rod, shower curtain , water dam, drain, etc.... OR you can purchase these items to make a complete kit from each shower stall supplier. The ADA shower valve specifications listed below are meant to be used when the Description of Work specifies a site built ceramic tile shower stall.

Moen Chateau Model # M62370. Posy Temp Single Handle Tub/ Shower Valve with trim kit. Brass construction. 1/4"turn stops Adjustable temperature limit stop to control Maximum hot water temperature Pressure balancing mechanism maintains selected discharge temperature to +- 3 degrees F. Handle operates counterclockwise through a 270-degree arc . ADA compliant.

Moen 4-Function Massaging hand shower with slide Bar and Bracket. Model # 3867. 69-inch double interlock spiral hose (metal). A Vacuum Breaker with 30-inch slide bar with push button height selection. Available at multiple supply houses

Moen Posy-temp Rough In valve CC. MO62320-Posi Temp pressure balancing Valve M062320 Posy Temp Single Handle Tub/ Shower Valve with trim kit. (MOTL 182) Brass construction. Adjustable temperature limit stops to control Maximum hot water temperature Pressure balancing mechanism maintains selected discharge temperature to +- 2 degrees F. Handle operates counterclockwise through a 270-degree arc. ADA compliant.

#### **Models:**

LUXLTBSCP-LUX LTSB-CP Traditional Slide Bar CP-Brass construction.

LUXLS&@MHCP-LUX LS&@MH-CP 72-inch Braided Metal Hose. SS. IAPMO and UPC rated.

LUXL7FPSCP Classic 7 Function Hand shower

LUXLSWBCP Adjustable wall Bracket. ANSI/ASME A112.18.1

LUXXLSSADIVCP 3-way shower Arm Div. Brass. UPC rated, ANSI/ASMEA112.18 - Available at multiple supply houses

Moen Single Handle pressure Balancing Shower Valve with Hand held Shower System

Model # 8346. Chrome plated. ¼ inch stops. 30-inch slide bar with drop ell, vacuum breaker, 69-inch metal house and minting hardware. Temperature valve has ADA compliant lever handle Adjustable temperature limit stop. Pressure balancing mechanism Maintains selected discharge temperature to +- 2 degrees. Single function spray pattern.

### **Ramp Specifications:**

#### **RAMP DESCRIPTION AND INSTRUCTIONS:**

#### **Note:**

The ramp instruction shall not deviate from this specification otherwise stipulated in the DOW

#### **Treated wood:**

Ramp shall maintain no more than a 1-inch rise per 1 foot of horizontal run throughout entire length.

A 5 Ft. by 5 Ft. wood landing built to the same specifications and material as the ramp shall be installed level and square at the front entrance to the house where ramp terminates.

#### **Ramp shall be constructed as follows:**

Minimum 3 feet wide and shall be 4"X 4" treated wood posts on 4-foot centers embedded in concrete, 18 inches below grade. 2" X 6" Tread. 2" x 8" stringers shall be bolted to vertical wood support posts. Three (3) 2" X 6" wood rails on both sides of ramp and landing. Two 2" x 6" wood railings installed 32" to 36" above tread and one 2" X 6" wood rail installed above tread to the bottom of the 2" x 2" balusters. (The purpose of bottom rail is to prevent wheel chair wheels from running off of ramp).

Three 2" X 6" wood rails shall be installed on both sides of ramp. All 2" x 6" wood railings to run entire length of ramp. 2" X 2" wood square balusters on 4" center spacing runs both sides of entire run of ramp. These balusters tie together the bottom 2" X 6" turned on edge above the tread with the two 2" X 6" wood hand rails installed 32" to 36" above tread. One of these wood hand rails installed flat on top of balusters to provide a hand hold rail and the other 2"X 6" wood rail is installed on edge so that the two upper handrails form a right angle with both upper handrails attached to the 2' X 2" vertical balusters for added support.

A level and square treated wood 5 Ft. X 5 Ft. landing is to be built at the entrance to the house where the ramp terminates. This landing shall be built to the same specifications as detailed above for the ramp.

All connectors and fasteners to be rust resistant stainless steel, hot dipped galvanized, bronze or zinc coated to prevent rust.

All tread fasteners shall be countersunk. All corners on rough lumber hand rails to be sanded smooth or routed smooth. Provide for a ½' radius on each corner of the wood handrails to eliminate square corners.

#### **Note:**

**Any ramp with a horizontal run greater than 72 inches (6 Ft.), shall have a continuous 1.25 to 1.5 inch outside diameter metal rust resistant handrail on both sides mounted at between 34 and 38 inches above the ramp suRFPce with rounded ends or returned ends. Handrails shall extend 12 inches beyond the top and bottom of ramps, parallel to the landing suRFPce with rounded or returned ends. 1.5-inch space is required between the rail and the wood suRFPce behind the metal hand rail. Metal handrail shall be primed and painted two coats exterior grade metal paint.**

#### **Additional specifications required per project:**

If your project calls for a ramp or a site built ceramic tile shower stall, additional diagrams, working drawings and building information shall be attached on the Description of Work (DOW).

#### **Door specification information**

Specifications: 3, 5 Ply construction. Meets or exceeds industry standards of WDMA I.S.1; All 20 Minute doors have been tested in conformance to the following standards. ASTM-E-152, CSFM-43.7, CAN4-S104, NFPA-252, UBC-7-2-97, UL-10C

3068 6-Panel Interior Door

4 9/16-inch jamb for 2 X 4 walls

Textured hollow core construction

Lock prep 2 1/8-inch single bore

Source: McCoy's Supplier

3068 Luan Flush Interior Door

4 9/16-inch jamb for 2 X 4 walls

Lock prep 2 1/8-inch single bore, 2 3/4 inch backset

Bull nose finger jointed door stop.

Source: McCoy's Supplier

3068 6-Panel pre-hung Exterior steel Door

4 9/16-inch jamb for 2 X 4 walls

24-gauge steel

Lock prep 2 1/8-inch single bore, 2 3/4 inch backset

Aluminum / composite adjustable threshold with bronze compression weather-strip

Source: McCoy's Supplier

3068 pre-hung flush steel doors, same as above -McCoy's

Home Depot

Interior pre-hung door 3068 flush hardwood 1/8 inches hollow core

Jamb: 4 9/16 inches finger joint brass hinges. Source: Home depot

6 panel molded door. 3068 6-panel molded 1 3/8 inch 8 inches hollow core.

Primed jambs bored for lockset-home Depot

Schlage, lever keyed entry lock set

- Polished brass- Home Depot-Bed & Bath lockset lever

Finish; satin nickel

Kwickset bed & bath polished brass lever lock set

Nickel finish  
Kwickset keyed Lever handle entrance.  
Finish: Nickel, antique brass and polished brass.

### **Installation Guidelines:**

#### **Installation Procedures for Drywall:**

To prevent problems, use good quality framing lumber and follow these recommendations:

For walls 8 feet high or less, run drywall sheets perpendicular to the studs or horizontally, with the long side of the drywall sheets parallel to the floor.

Make sure the drywall is tight against the framing before fastening.

Install with screws, which have better holding power than nails and are less likely to tear or weaken the drywall facing. Use the correct length fastener. Either longer or shorter than recommended can lead to nail pops.

Maintain the temperature at 55°F to 70°F during and after applying the joint compound.

If using fiberglass mesh rather than paper tape, use setting-type joint compound to embed the mesh, since it is not as strong as paper tape.

Install drywall on ceilings before walls and use floating corners to allow for some movement. Keep butted joints (short ends) to a minimum, and butt the sheets together loosely. Because they are untapered they are more visible.

#### **Framing Specifications for Successful Drywall Installation:**

Drywall should be installed over straight and level framing. If the framing is excessively wet, it will crack the drywall and cause nail pops as it shrinks. If the framing is twisted, bowed, or out of alignment, it will cause weak points in the suRFPce and possible cracking. Repair or replace problem studs before installing the drywall.

Framing Spans Recommended for Ceiling & Wall Drywall Installation. Consult Applicable Building Code requirements for Local jurisdiction.

The building should be heated before finishing begins and maintained at 55°F to 70°F throughout taping and finishing. If the weather is too hot and dry, paper drywall tape may not bond well and joints may experience excess shrinkage and cracking.

#### **Mesh vs. Paper Tape Choices for Drywall Seams:**

Mesh tape is easier to apply but not as strong as paper tape. It should never be used in inside corners, where it can tear or be cut by the trowel. However, if combined with setting-type compound, mesh tape is nearly as strong as paper tape and can produce a quality job. Mesh tape is also very useful for repairing cracks in older plaster walls or ceilings.

#### **Ceramic Tile Specifications:**

#### **Cement/mortar selection, preparation, and installation guidelines**

#### **Part 1 General References:**

Tile Council of North America (TCNA): TCA Handbook for Ceramic Tile Installation, 2007.

American National Standards Institute (ANSI):

ANSI A137.1, 1988 - Specifications for Ceramic Tile.

ANSI A118.9, 1999 - Test Methods and Specifications for Cement Backer Units

ANSI A118.6, 1999 - Standard Ceramic Tile Grouts.

ANSI A118.4, 1999 - Latex-Portland Cement Mortar.

ANSI A118.1, 1999 - Standard Specification for Dry-Set Portland cement Mortar.

ANSI A108.6, 1999 - Specifications for Ceramic Tile Installed with Chemical-Resistant, Water-Cleanable Tile-Setting and -Grouting Epoxy.

ANSI A108.1A, 1999 - Specifications for Installation of Ceramic Tile in the Wet-Set Method with Portland cement Mortar.

ANSI A108.1B, 1999 - Specifications for Installation of Ceramic Tile on a Cured Portland cement Mortar Setting Bed with Dry-Set or Latex Portland Cement Mortar.

ANSI A108.1C, 1999 - Specifications for Contractors Option: Installation of Ceramic Tile in the Wet-Set Method with Portland Cement Mortar -or- Installation of Ceramic Tile on a Cured Portland Cement Mortar Setting Bed with Dry-Set or Latex Portland Cement Mortar.

ANSI A108.4, 1999 - Specifications for Ceramic Tile Installed with Organic Adhesives or Water-Cleanable Tile Setting Epoxy Adhesive.

ANSI A108.5, 1999 - Specifications for Ceramic Tile Installed with Dry-Set Portland cement Mortar or Latex-Portland Cement Mortar.

**Selection Samples:**

Provide Color charts illustrating full range of colors and patterns. Samples of actual tiles for selection. Show homeowner prior to beginning tile work.

Colors: To be selected from manufacturer's standard range. Minimum 6 selections.

**Manufacturer's Certificate:**

Certify that products meet or exceed specified requirements. (ANSI A137.1, 1988 - Specifications for Ceramic Tile)

**Maintenance Data:**

Include recommended cleaning methods, cleaning materials, stain removal methods, and polishes and waxes.

**QUALITY ASSURANCE:**

Company specializing in performing the work of this section with minimum two years' experience.

**Single Source Responsibility:**

Obtain each type and color of tile from a single source. Obtain each type and color of mortar, adhesive and grout from the same source.

**DELIVERY, STORAGE, AND HANDLING:**

Deliver and store products in manufacturer's unopened packaging until ready for installation. Protect adhesives and liquid additives from freezing or overheating in accordance with manufacturer's instructions.

Store tile and setting materials on elevated platforms, under cover and in a dry location and protect from contamination, dampness, freezing or overheating.

**ENVIRONMENTAL REQUIREMENTS:**

Do not install adhesives in an unventilated environment.  
Maintain ambient and substrate temperature of 50 degrees F (10 degrees C) during tiling and for a minimum of 7 days after completion.

**EXTRA MATERIALS:**

Revise quantity as required. Delete if extra materials are not required.  
Provide for Owner's use a minimum of 2 percent of the primary sizes and colors of tile specified, boxed and clearly labeled.

**PRODUCTS:**

Insure that tile type complies with the following standards for residential ceramic tile installation in a shower stall application.

ASTM C1028	Slip Test This standard tests the anti-slip properties by determining the coefficient of friction between the tile and a body with a rubber suRFPce. This test is performed in both dry and wet conditions. The COF (coefficient of friction) is defined as the horizontal force needed to overcome the vertical force of the objects weight. ADA recommendations floor tile meet or exceed a rating of .60 wet and dry.
ISO 10545-7 ASTM C1027	Resistance to Abrasion and Tread Wear Abrasion resistance is the capacity of the glazed suRFPce to resist the wear caused by foot traffic or the abrasion caused by mechanical equipment. The wear action determines the suitable applications for each tile. Class 5 Heavy Commercial: suitable for intense commercial and all residential; Class 4 Commercial: suitable for medium commercial and all residential; Class 3 Heavy Residential, Light Commercial; suitable for all residential, average abrasion; Class 2 Residential: suitable for residential excluding kitchen, entryways, and stairs; Class 1 Light Residential: barefoot traffic and traffic without abrasive dirt; Class 0 Wall tile only; not suitable for floors. Through body porcelain tile does not have a glaze and does not receive this test. It receives the deep abrasion test 10545-6. (conform or not conform)
ISO 10545-3	Water Absorption Absorption is the product capacity for water penetration. Porcelain tile is an impervious, very dense product with a very low absorbency rate. Ceramic tiles are more porous and generally less durable than porcelain tiles due to a less dense body composition. Ceramic wall tiles are the least dense and can have a water absorption rate of over 10% of its weight. Porcelain tile is less than .5% absorption by definition therefore it meets ISO standard 10545-3.

ISO 10545-4	<p><b>Break</b>  Tests the tiles resistance to heavy loads. The breaking strength is the force needed to break the tile.</p> <p style="text-align: right;"><b>Strength</b></p>
-------------	--

**\*\* NOTE TO SPECIFIER \*\*** Coordinate the following paragraph with the Drawings and the Schedule at the end of this section. General: Provide tile that complies with ANSI A137.1 for types, compositions and other characteristics indicated. Provide tile in the locations and of the type's, colors and pattern indicated on the Drawings and identified in the Description of Work (DOW). Tile shall also be provided in accordance with the following:

### **TRIM AND ACCESSORIES**

**\*\* NOTE TO SPECIFIER \*\*** Delete the following accessories if not required. Accessories are available in an extremely limited color selection.

- Ceramic Accessories: Glazed finish, same color and finish as adjacent field tile; same manufacturer as tile.
- Soap Dish: suRFPce mounted or recessed; cast strength sufficient to resist lateral pull force of 75 lbs. (34 Kg).
- Towel Bars: Standard design, suRFPce mounted with extensions for casting into small wall openings; cast strength sufficient to resist lateral pull force of 30 lbs. (14 Kg).
- Corner Shelf.

**\*\* NOTE TO SPECIFIER \*\*** Delete the following trim if not required.

- Non-Ceramic Trim: Satin natural anodized extruded aluminum, stainless steel, brass, etc., style and dimensions to suit application, for setting using tile mortar or adhesive; use in the following locations:
  - Open edges of floor tile.
  - Transition between floor finishes of different heights.
  - Thresholds at door openings.
  - Expansion and control joints, floor and wall.

**\*\* NOTE TO SPECIFIER \*\*** Edit the following as required. Delete the following thresholds if not required.

- Provide and install transition between tile suRFPce and adjoining finishes and at the following locations:
  - At doorways where tile terminates.
  - At open edges of floor tile where adjacent finish is a different height.

### **SETTING MATERIALS**

**\*\* NOTE TO SPECIFIER \*\*** Delete materials not applicable to installation methods specified in PART 3 - INSTALLATION of this specification.

- Organic Adhesive: ANSI A136.1, thin set bond type; use Type I in areas subject to prolonged moisture exposure.
- Epoxy Adhesive: ANSI A118.3, thin set bond type.
- Mortar Bed Materials:
  - Portland cement: ASTM C150, type 1, gray or white.
  - Hydrated Lime: ASTM C207, Type S.
  - Sand: ASTM C144, fine.
  - Latex additive: As approved.
  - Water: Clean and potable.
- Mortar Bond Coat Materials:

- Dry-Set Portland Cement type: ANSI A118.1.
- Latex-Portland Cement type: ANSI A118.4.
- Epoxy: ANSI A118.3, 100 percent solids.

Standard Grout: Cement grout, sanded or unsanded, as specified in ANSI A118.6; color as selected.

- Polymer modified cement grout, sanded or unsanded, as specified in ANSI A118.7; color as selected.
- Epoxy Grout: ANSI A118.8, 100 percent solids epoxy grout; color as selected.
- Silicone Sealant: Silicone sealant, moisture and mildew resistant type, white; use for shower floors and shower walls.
- Cleavage Membrane:

**\*\* NOTE TO SPECIFIER \*\*** Delete one of the following two paragraphs.

- No. 15 (6.9 kg) asphalt saturated felt, ASTM D226, Type 1.
- Polyethylene film, ASTM D4397, 4.0 mil thickness.

**\*\* NOTE TO SPECIFIER \*\*** Select one of the following six paragraphs. Delete entirely if not required or if specified elsewhere.

- Waterproofing Membrane at Floors: Membrane in accordance with ANSI A118.10 and as follows:
  - Chlorinated Polyethylene Sheet with polyester fabric reinforcing.
  - Fabric Reinforced, Fluid-Applied elastomeric membrane.
  - Un-Reinforced, Fluid-Applied elastomeric membrane.
  - Polyethylene Sheet Product.
  - Fabric-Reinforced, Modified-Bituminous Sheet Product.
  - Urethane Waterproofing and Tile-Setting Adhesive Product.
    - Consult local building code officials for approval of waterproofing membrane

**\*\* NOTE TO SPECIFIER \*\*** Delete one of the following two paragraphs.

- Membrane at Walls: No. 15 (6.9 kg) asphalt saturated felt, ASTM D226, Type 1.
- Membrane at Walls: 4 mil (0.1 mm) thick polyethylene film, ASTM D4397.
- Membrane at Walls: Reinforced asphalt paper.

**\*\* NOTE TO SPECIFIER \*\*** Delete one of the following two paragraphs.

- Reinforcing Mesh: 2 by 2-inch (50 by 50 mm) size weave of 16/16 wire size; welded fabric, galvanized.
- Metal Lath: ASTM C847, Flat expanded diamond mesh, not less than 2.5 lbs. /SY, galvanized finish.

**\*\* NOTE TO SPECIFIER \*\*** Delete paragraphs that are not required.

- Cement Backer Board: ANSI A118.9; High density, cement, glass fiber reinforced with 2 inch (50 mm) wide coated glass fiber tape for joints and corners:
  - Thickness: 1/4 inch (6 mm).
  - Thickness: 1/2 inch (13 mm).
  - Thickness: 5/8 inch (16 mm).

## EXECUTION

### EXAMINATION

- Verify that wall suRFPces are free of substances which would impair bonding of setting materials, smooth and flat within tolerances specified in ANSI A137.1, and are ready to receive tile.
- Verify that sub-floor suRFPces are dust-free, and free of substances which would impair bonding of setting materials to sub-floor suRFPces, and are



smooth and flat within tolerances specified in ANSI A137.1.

- Verify that concrete sub-floor suRFPces are ready for tile installation by testing for moisture emission rate and alkalinity; obtain instructions if test results are not within limits recommended by tile manufacturer and setting materials manufacturer.
- Verify that required floor-mounted utilities are in correct location.

#### PREPARATION

- Protect surrounding work from damage.
- Remove any curing compounds or other contaminants.
- Vacuum clean suRFPces and damp clean.
- Seal substrate suRFPce cracks with filler. Level existing substrate suRFPces to acceptable flatness tolerances.
- Install cement backer board in accordance with ANSI A108.11 and board manufacturer's instructions. Tape joints and corners, cover with skim coat of dry-set mortar to a feather edge.
- Prepare substrate suRFPces for adhesive installation in accordance with adhesive manufacturer's instructions.

#### INSTALLATION - GENERAL

- Install tile and grout in accordance with applicable requirements of ANSI A108.1 through A108.13, manufacturer's instructions, and TCA Handbook recommendations.
- Lay tile to pattern indicated. Arrange pattern so that a full tile or joint is centered on each wall and that no tile less than 1/2 width is used. Do not interrupt tile pattern through openings.
- Cut and fit tile to penetrations through tile, leaving sealant joint space. Form corners and bases neatly. Align floor joints.
- Place tile joints uniform in width, subject to variance in tolerance allowed in tile size. Make joints watertight, without voids, cracks, excess mortar, or excess grout.
- Form internal angles square and external angles bull nosed.

**\*\* NOTE TO SPECIFIER \*\*** Delete the following paragraph if no ceramic accessories have been specified.

- Install ceramic accessories rigidly in prepared openings.
- Install non-ceramic trim in accordance with manufacturer's instructions.

**\*\* NOTE TO SPECIFIER \*\*** Delete the following paragraph if no marble thresholds have been specified.

- Install thresholds where indicated.
- Sound tile after setting. Replace hollow sounding units.
- Keep expansion joints free of adhesive or grout. Apply sealant to joints.
- Allow tile to set for a minimum of 48 hours prior to grouting.
- Grout tile joints. Use standard grout unless otherwise indicated.
- Apply sealant to junction of tile and dissimilar materials and junction of dissimilar planes.

**\*\* NOTE TO SPECIFIER \*\*** Delete all of the following installation conditions that are not relevant. Consult with TCA Handbook recommendations for additional installation options.

#### INSTALLATION - SHOWERS AND BATHTUB WALLS

- At tiled shower receptors install in accordance with TCA Handbook Method B415, mortar bed floor, and W244, thin-set over cement backer unit walls.
- At bathtub walls install in accordance with TCA Handbook Method B412,

over cementitious backer units with waterproofing membrane.

- Grout with standard grout as specified above.
- Seal joints between tile work and other work with sealant specified in Section 07900.

#### INSTALLATION - WALL TILE

**\*\* NOTE TO SPECIFIER \*\*** Delete one of the following two paragraphs. If not applicable, delete both.

- Over cementitious backer units on studs, install in accordance with TCA Handbook Method W244, using membrane at toilet rooms.
- Over cementitious backer units install in accordance with TCA Handbook Method W223, organic adhesive.
- Over gypsum wallboard on wood or metal studs install in accordance with TCA Handbook Method W243, thin-set with dry-set or latex-portland cement bond coat, unless otherwise indicated.
- Where mortar bed is indicated, install in accordance with TCA Handbook Method W222, one coat method.
- Where waterproofing membrane is indicated other than at showers and bathtub walls, install in accordance with TCA Handbook Method W222, one coat method.
- Over interior concrete and masonry install in accordance with TCA Handbook Method W202, thin-set with dry-set or latex-portland cement bond coat.
- Over wood studs without backer install in accordance with TCA Handbook Method W231, mortar bed, with membrane where indicated.
- Over metal studs without backer install in accordance with TCA Handbook Method W241, mortar bed, with membrane where indicated.

#### CLEANING

- Clean tile and grout surfaces.
- PROTECTION OF FINISHED WORK
- Do not permit traffic over finished floor surface for 72 hours after installation.
- Cover floors with kraft paper and protect from dirt and residue from other trades.
- Where floor will be exposed for prolonged periods cover with plywood or other similar type walkways

**\*\* NOTE TO SPECIFIER \*\*** The following is an example of a typical schedule of tile types, colors, and installation methods. Edit to suit project. Delete if schedule is on drawings or not required. Identify each tile by assigned tile number (FT1, FT2, etc.); Identify installation Method from the TCA Handbook and include ANSI Spec reference as appropriate.

**EXHIBIT D**

**2025 ASSESSMENT PRICING LIST**

<b>2025 ASSESSMENT PRICING LIST</b>	
<b>Item</b>	<b>AACOG Price</b>
<b>Assessment of Single-Family Dwelling Unit</b>	
<b>Audit of Single-Family Dwelling Unit</b>	
<b>QCI Final Inspection of Single-Family Dwelling Unit</b>	
<b>On-Site Denial of Dwelling Unit</b>	
<b>QCI Re-Inspections</b>	
<b>Pre-Assessments of Single-Family Dwelling Unit</b>	
<b>Pre-Assessment of multi-family property/complex</b>	
<b>Assessment of Multi-Family Complex</b>	
<b>Audits of Multi-Family Complex</b>	
<b>Final Inspection of Multi-Family Complex</b>	