

## Barrier Free Design / Techniques



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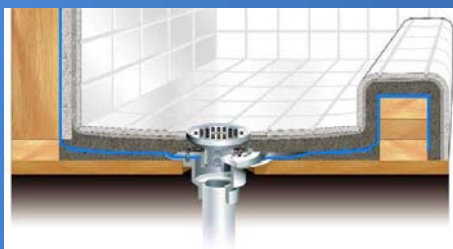


## Learning Objectives

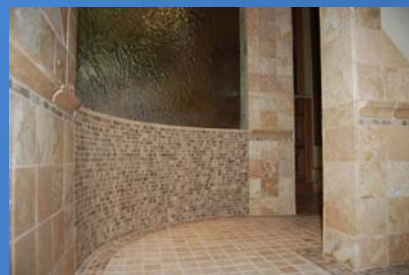
- What are barrier free installations?
- Benefits of barrier free installations
- Design considerations
- Define the “space”
- Installation techniques



## Why Barrier Free ?



## Accessibility



## Define the Space

- Clearly understand the receptor area
- Limited to just the shower
- Incorporates the entire bathroom



## ADA Shower Stall Parameters

- ADA Compliant – no more than a ½” [12mm] rise.
- Maintain ¼” per linear ft. pitch to drain [6mm per 300mm]
- Typically a minimum of 36” x 36” [900 mm x 900mm]



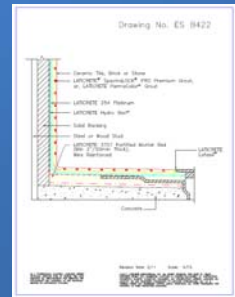


### Barrier Free in a Confined Space



### Waterproofing

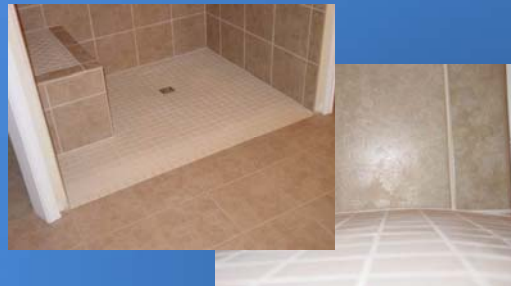
- ANSI A118.10
- Surface Applied
- Behind the Installation Assembly



### Flood Testing



### Design – “Hump” Type Curb

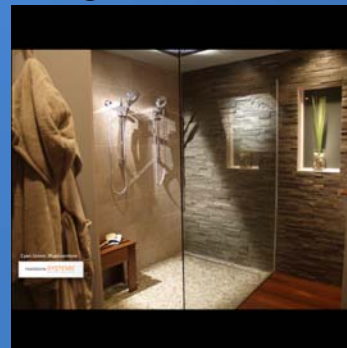


### Design – Linear Drains

- Linear Drains
- Bonding Flange Drains



### Design – Linear Drains



### Design – Linear Drains



### Design – Pre-Fabricated Pans

- Pans – Integrated Drains
- Curbs



### Design - Barrier Free Accessories

- Slopes
- Niches
- Seats
- Benches
- Wall panels



### Design – Customizable Drains



### Design – Curbless w/ smaller tiles



### Design – larger tiles



### Steam Showers



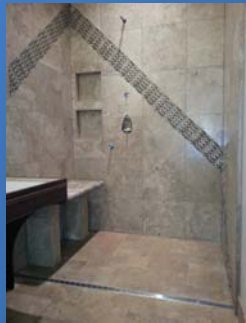
### Low Perm Waterproofing

- ANSI A118.10
- ASTM E96 – Proc. E



### Tips

- Membrane termination points
- Wall Heights
- Extent on floor



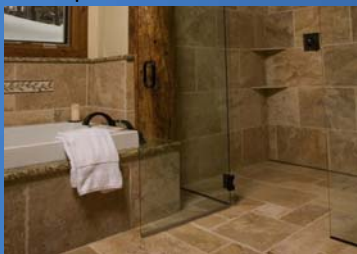
### Tips

- Secondary drain



### Tips

- Momentum of water
- Location of shower door / curtain – termination point of water



### Tips

- Plumbing and Bath Fixtures



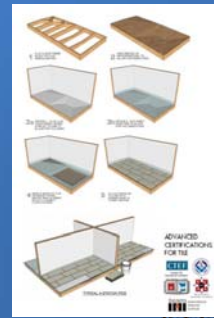
### Tips

- Use Bonding Flange / Linear Drains that are better suited for surface wpm
- Follow TCNA Method B422
- Use a high quality wpm
- Keep it "low"
- Flood test



### Tips

- Use Certified Labor
- Joint Industry Efforts – NTCA / TCAA / CTEF & Industry Partners



### Thank You

- Summary
- Benefits of barrier free installations
- Design considerations
- Installation techniques

