


Behavioral Health Plumbing Fixture Design/Applications

Presented by: James Waldrop


1



Behavioral Health Plumbing Fixture Design/Applications

Description: This presentation will go over the trends, facts and applications that are being used for behavioral health facilities nationwide. How to implement them into new and existing facilities. Overall offerings for ligature resistant plumbing fixtures.

2



Learning Objectives

- Learn the behavioral health trends and facts of facilities nationwide.
- Learn differences between standard fixtures vs. ligature-resistant fixtures.
- Typical installation procedures for behavioral health plumbing fixtures.
- Different types of fixtures for behavioral health facilities.
- Choosing the correct fixtures for the project.

3

What is Behavioral Healthcare?



- Behavioral healthcare is an umbrella term and refers to a continuum of services for individuals at risk of, or suffering from, mental, behavioral, or addictive disorders.
- In the United States, almost half of adults (46.4 percent) will experience a mental illness during their lifetime.¹
- 43.8 Millions adults experience a mental illness in any one year.²
- In the United States, only 41% of the people who had a mental disorder in the past year received professional health care or other services.³



1. mentalhealthfirstaid.org/2019/02/5-surprising-mental-health-statistics/

4

Behavioral Healthcare Facilities, Then



- Were typically very institutionalized. Had a dark & dingy feel to them.
- Had the look similar to most jails & prisons.
- Most people typically stay in these facilities long-term.
- From the 1980's to 1990's due to budget cuts on these facilities. These hospitals began to close.
- Resulting with a lot of the jails & prisons nationwide to see an increase in inmates due to people with mental health issues.
- Data from 2005-2006 shows that about 50% of prison & jail inmates meet criteria for mental illness.¹



1. Prisonerhealth.org/educational-resources/factsheets-2/incarceration-and-mental-health/

5

Behavioral Healthcare Facilities, Now



- Psychiatric hospitals/ behavioral healthcare facilities now try to focus on short-term care.
- Have the look of a softer, gentler feel to make for a more relaxing environment to be in. Lots of natural light and vibrant colors.
- By 2007, nearly 80% of hospitals nationwide began to either have some type of specialty mental health services on site or some type of clinic for mental health.¹
- By 2010, there were 10,374 mental health treatment facilities and 13,339 specialty substance abuse treatment facilities in the U.S.²
- More facilities continue to be built.
- Since 2007, the Veterans Health Administration (VHA) has invested in Primary Care-Mental Health Integration (PC-MHI) among clinics nationwide.³



1. samhsa.gov/data/sites/default/files/2012-BHUS.pdf
2. healthaffairs.org/doi/full/10.1377/hlthaff.2019.00270

6

Durability of Fixtures

Porcelain

- Low Durability



Solid Surface

- Medium Durability



Stainless Steel

- High Durability





7

What is a Ligature-Resistant Fixture



- Products designed to minimize ligature points and help by preventing self-harm opportunities to the patient.
- Not made from vitreous china that can be broken and the shards used to inflict harm to others or self-harm.



8

Behavioral Health Plumbing Fixtures Then

- Correctional/institutional look or standard toilet/lavatory look
- Typically made from porcelain or vitreous china/ sometimes stainless steel.
- Fixtures have numerous ligature points on them.



Behavioral Health Plumbing Fixtures Now

- Soft, gentle feel, and various colors
- Solid surface material
- Stainless steel powder coated fixtures
- Designed to minimize ligature points



Make Drinking Fountain Power Coated?



9



Types of Behavioral Health Ligature-Resistant Plumbing Fixtures & Bathroom Accessories

- Water Closets
- Urinals
- Lavatories
- Drinking Fountains
- Showers
- Bathroom Accessories
- Drains



10



Standard Water Closet Vs. Ligature-Resistant Water Closet



11

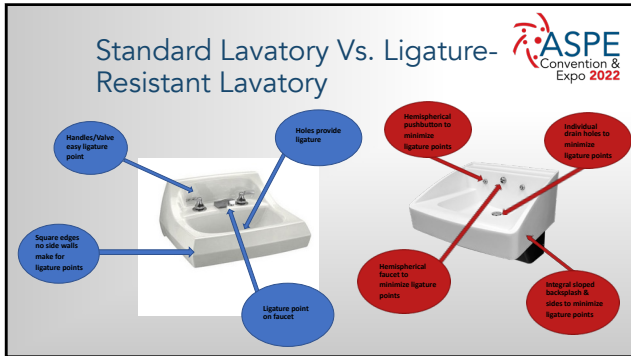


Ligature-Resistant Water Closets/ Urinals



- Fixtures thoughtfully designed to minimize potential ligature points.
- Supplied with a variety of options including: valves, controls, plumbing, etc.
- Typically made of stainless steel for vandal-resistant purposes & durability.
- Available in both ADA & standard options.
- Can be either top spud or back spud for flush valve orientation.

12



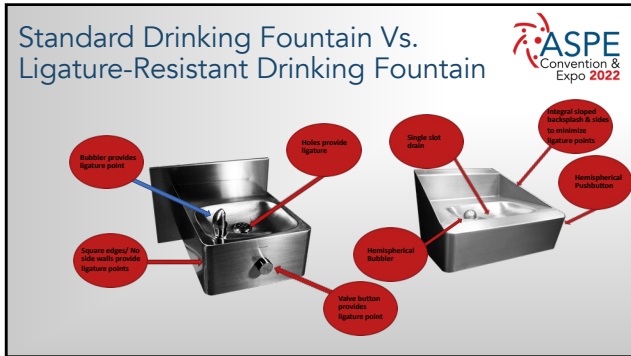
13



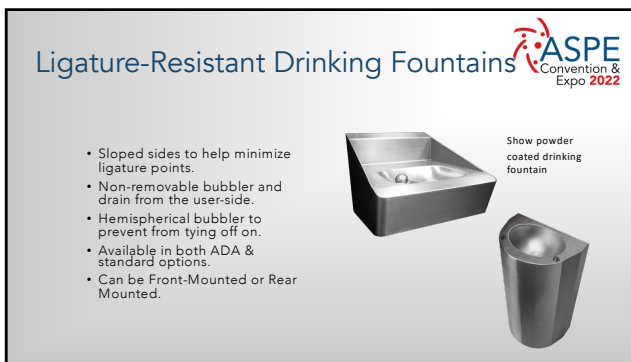
14



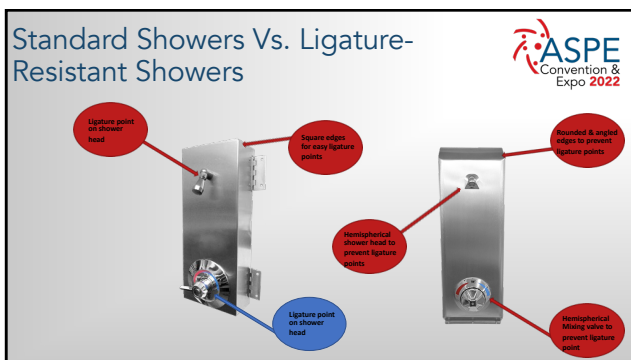
15



16



17



18

Ligature-Resistant Showers

- Typically made of stainless steel.
- Shower head, pushbuttons, mixing valve, diverter valve, etc. engineered to minimize ligature points.
- Stainless steel is easy to keep clean and very durable.
- Available in both ADA & standard options.
- Can be wall mounted, recessed, or rear mounted.
- Can be water sense certified.
- Tamper resistant screws to prevent tampering with fixture.



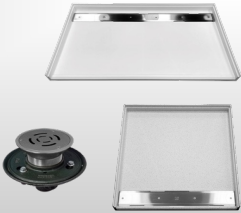

19

Standard Showers & Drains Vs. Ligature-Resistant Showers & Drains



20

Ligature Resistant Drains & Shower Bases



- Shower bases typically made of Solid Surface
- Solid surface is a non-porous material that is easy to keep clean and maintain. Very durable and long lasting.
- Ligature-resistant trench drain. Has engineered slot channels to minimizing ligature points on the actual drain.
- Floor drain has individual slots to help minimize the chance for tie off.

21




22



23




24



Choosing the Proper Plumbing Fixture

- What is the security level of the facility?
- Do you have a plumbing chase?
 - If a chase what type of chase do you have (90 degrees or 45 degrees)
 - How big is the space behind the chase?
- Do you need mounting carriers?
- Do you need a top spud or back spud flush valve? (Exposed or Behind Wall)
- Do you want the flush valve to be exposed or put behind the wall
- What type of walls are being used?
- What are the rough-in locations for the plumbing fixtures?

25



Any Questions?

Thanks for your time! Let us know when the timing is right for you to learn even more about behavioral health plumbing fixtures.

James Waldrop
EJwaldrop@Willoughby-ind.com
 P: (317) 796-1306
 O: (800) 428-4065

26