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## Product Guide Specification

Specifier Notes: This product guide specification is written according to the Construction Specifications Institute (CSI) 3-Part Format. The section must be carefully reviewed and edited by the Architect to meet the requirements of the project and local building code. Coordinate this section with other specification sections and the drawings. Delete all "Specifier Notes" when editing this section.

### SECTION 22 42 13.13

#### ASME A112.6.1M – 1997 Floor-Affixed Supports For Off-The-Floor Plumbing Fixtures For Public Use

Specifier Notes: This section covers the ZURN Z1202-XXX EZCarry™ vertical siphon jet water closet carrier system with high performance waterway and no-hub or hub and spigot connections. System includes Dura-Coated cast iron main fitting with hydro-mechanically optimized sweep and extended 2" [51mm] vent, adjustable gasketed faceplate, universal floor mounted pre-fab slotted foot supports, heavy-duty ½" [13mm] rear anchor tie down, fixture bolts, trim, stud protectors, bonded "Neo-Seal" gasket, and corrosion resistant, adjustable 3" [76mm] dia. X 6" [152mm] coupling with integral test cap designed to increase flow velocity and line carry. EZCarry system complies with the requirements of ASME A112.6.1M up to a 500 lbs [227kg] static load rating. Consult Zurn for assistance in editing this section for the specific application.

#### PART 1 GENERAL

##### 1.1 SECTION INCLUDES

- A. EZCarry adjustable vertical high performance water closet carrier system with cast iron face plate, support legs, waste fitting, rear anchor assembly, polymer coupling, gaskets, rough-in and finish trim.

##### 1.2 RELATED SECTIONS

Specifier Notes: Edit the following list of related sections as required for the project. List other sections with work directly related to this section.

- A. Section 22 10 00 - Building Services Piping.
- B. Section 22 13 00 – Facility Sanitary Sewerage.
- C. Section 22 40 00 - Plumbing Fixtures and Equipment.
- D. Section 22 46 00 – Security Plumbing Fixtures.

### 1.3 REFERENCES

- A. ASME A112.6.1M – 1997 Floor-Affixed Supports for Off-The-Floor Plumbing Fixtures for Public Use

### 1.4 SUBMITTALS

- A. Comply with Section 01 33 00 - Submittal Procedures.
- B. Product Data: Submit manufacturer's product data, including installation instructions.

### 1.5 DELIVERY, STORAGE, AND HANDLING

- A. Delivery: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.
- B. Storage: Store materials in clean, dry area indoors in accordance with manufacturer's instructions. Do not store materials in direct sunlight.
- C. Handling: Protect materials and finish during handling and installation to prevent damage.

## PART 2 PRODUCTS

### 2.1 MANUFACTURER

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| Specifier Notes: Specify Zurn Industries, LLC. |
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- A. [Zurn Industries LLC, 1801 Pittsburgh Avenue, Erie, PA. 16502. Toll Free (855) 663-9876.]  
Website [www.zurn.com](http://www.zurn.com)

### 2.2.1 MATERIALS

- A. Cast iron, high performance water closet carrier system: **Z1202-XXX** includes Dura-Coated cast iron main fitting with hydro-mechanically optimized sweep and extended 2" [51mm] vent, adjustable gasketed faceplate, universal floor mounted pre-fab slotted foot supports, heavy-duty ½" [13mm] rear anchor tie down, fixture bolts, trim, stud protectors, bonded "Neo-Seal" gasket, and corrosion resistant, adjustable 3" [76mm] dia. X 6" [152mm] coupling with integral test cap.
  - 1. Cast iron siphon jet style faceplate
  - 2. Cast iron universal foot supports
  - 3. Cast iron waste fitting with vent and no-hub or hub and spigot connections
  - 4. Cast iron heavy-duty rear anchor tie-down
  - 5. Rubber gasket for faceplate to fitting connection

6. Rubber O-Ring for coupling to faceplate seal (not applicable to ZQ prefix)
7. Neoprene Neo-Seal gasket for fixture to coupling connection
8. Polymer waste coupling w/ integral test cap
9. Zinc-plated hardware including: fixture bolts, washers, nuts, studs
10. Cast aluminum fixture nuts
11. Polymer rod protectors

Specifier Notes: Connection type and size (Product Designation) must be specified.

**B. Sizing**

1. Z1202-N4 4 [102] No-Hub Stack, Single Inlet, 2 [51] Right Hand Vent
2. Z1202-ND4 4 [102] No-Hub Stack, Double Inlets, 2 [51] Vent
3. Z1202-H4 4 [102] Hub & Spigot Stack, Single Inlet, 2 [51] Right Hand Vent
4. Z1202-HD4 4 [102] Hub & Spigot Stack, Double Inlets, 2 [51] Vent
5. Z1202-1NL4 4 [102] No-Hub Stack, Single Inlet, 4 [102] Left Hand Side Inlet, 2 [51] Left Hand Vent
6. Z1202-1NR4 4 [102] No-Hub Stack, Single Inlet, 4 [102] Right Hand Side Inlet, 2 [51] Right Hand Vent
7. Z1202-1ND4 4 [102] No-Hub Stack, Double Inlets, 4 [102] Side Inlet, 2 [51] Vent
8. Z1202-2N4 4 [102] No-Hub Stack, Single Inlet, Two 4 [102] Side Inlets, 2 [51] Right Hand Vent
9. Z1202-2ND4 4 [102] No-Hub Stack, Double Inlets, Two 4 [102] Side Inlets, 2 [51] Vent
10. Z1202-1HL4 4 [102] Hub & Spigot Stack, Single Inlet, 4 [102] Left Hand Side Inlet, 2 [51] Left Hand Vent
11. Z1202-1HR4 4 [102] Hub & Spigot Stack, Single Inlet, 4 [102] Right Hand Side Inlet, 2 [51] Right Hand Vent
12. Z1202-1HD4 4 [102] Hub & Spigot Stack, Double Inlets, 4 [102] Side Inlet, 2 [51] Vent
13. Z1202-2H4 4 [102] Hub & Spigot Stack, Single Inlet, Two 4 [102] Side Inlets, 2 [51] Right Hand Vent
14. Z1202-2HD4 4 [102] Hub & Spigot Stack, Double Inlets, Two 4 [102] Side Inlets, 2 [51] Vent

Specifier Notes: Specify required Z1202 EZCarry vertical siphon jet water closet carrier system options, and revise text below as necessary. Delete options not required. Consult Zurn Industries, LLC for additional information.

**C. Prefix Options:**

1. Z – D.C.C.I. System with Zurn ZZ Adjustable Coupling (provided as standard unless specified)
2. ZQ – D.C.C.I. System with NPT Faceplate, Non-Adjustable Coupling

**D. Suffix Options: (not provided unless specified)**

1. -A Auxiliary Support Assembly (for 'P' Dim. Greater than 18 [457])
2. -CC Corrosion Resistant Cast Iron Coupling (2-1/4 [57] to 12 [305])
3. -CE EZ-Set™ Coupling (Available 6 [152] and 12 [305] or longer, specify length)
4. -CL Custom Length Standard Coupling w/ Integral Test Cap (Specify length 4, 8, 10, 12 [102, 203, 254, 305])
5. -CS 2-1/4 [57] Polymer Coupling w/ Integral Test Cap
6. -F Floor Mounted, Back Outlet Fixture Support
7. -G Galvanized Cast Iron

8. -J 2 [51] Auxiliary Inlet, Opposite from 4 [102] Inlet (Available on -1HD4 Fitting)
9. -JJ Two 2 [51] Auxiliary Inlets (Available on -H4, -HD4, -N4, -ND4 Fittings)
10. -JL 2 [51] Left-Hand Auxiliary (Available on -H4, -HD4, -N4, -ND4, -1HR4 Fittings)
11. -JR 2 [51] Right-Hand Auxiliary (Available on -H4, -HD4, -N4, -ND4, -1HL4 Fittings)
12. -M Auxiliary Foot Support (for 'P' Dim. 10 thru 18 [254 thru 457])
13. -RYK Unistrut Pre-Fab Foot Support
14. -VL Left Hand Vent Connection (Available on -H4, -N4, -1HR4, -2H4, -1NR4, -2N4 Fittings)
15. -VP Vandal-Proof Trim
16. -45 Finishing Frame for Siphon Jet System
17. -50 Flush Valve Supply Support for Water Closets

## **PART 3 EXECUTION**

### **3.1 EXAMINATION**

- A. Examine areas to receive EZCarry vertical siphon jet water closet carrier system. Notify Architect of conditions that would adversely affect installation or subsequent use. Do not proceed with installation until unsatisfactory conditions are corrected.

### **3.2 INSTALLATION**

Specifier Notes: Refer to ZURN Z1201 and Z1202 EZCarry installation instructions document form number C45 for detailed installation instructions. Consult Zurn Industries, LLC for additional information.

- A. Lay carrier fitting on floor, waste line barrel down.
- B. Place faceplate gasket, from trim kit, on fitting. Align the gasket holes with the tapped holes in the fitting.
- C. Remove the faceplate/feet from trim kit box and align the faceplate slots with the gasket and fitting holes. Using four ½" bolts from the Fitting & Faceplate hardware bag. Secure the bolts with a ratcheting wrench (25-35 lb-ft of torque).
- D. Factory faceplate / foot assembly is set for a 5 ½" rough-in height. To adjust the rough-in height loosen the foot bolts and set the top two bolts to the desired height (adding additional height for tiling where required). For the highest position, swap bolts from A to B location. See Fig. 4 Re-secure bolts using wrench (25-35 lb-ft of torque).
- E. Standing the assembly upright, loosen the faceplate bolts to adjust the waste line height as required. Re-secure bolts using ratcheting wrench (25-35 lb-ft of torque).
- F. Rotate the carrier upright and secure the anchor stabilizer to the fitting using the included hardware and anchor foot assembly instructions. Ensure the anchor foot sits level on the floor and nuts are tightened.
- G. Place the carrier in line with the waste line. Mark locations on the floor for anchoring.
- H. Prep the floor for concrete anchors and place the carrier in position to the waste line. Lag down the feet using ½" anchors (supplied by others).
- I. Using the o-ring seal and lubricant bag, ensure the o-ring and faceplate groove are well lubricated. Insert the o-ring, ensuring it does not twist.

J. Coupling Installation

a. Standard, -CS, and –CC Couplings

i. Thread the coupling into the faceplate by hand until it engages the o-ring and begins to resist. Using a coupling wrench (Z1200-CPLG-WRNCH-3 purchased separately), continue to turn the coupling into the o-ring to create a water-tight seal.

ii. Adjust the coupling to extend 5/16" from the finished wall. Cover the coupling to prevent debris from adhering to it and preventing adjustment after the wall is in place. If the coupling must be shortened, cut from the threaded end. Prevent damage to the o-ring by chamfering the cut end and thoroughly deburring.

b. EZ-Set Coupling

i. Thread the coupling into the faceplate by hand until it engages the o-ring and begins to resist. Using a strap or pipe wrench, continue to turn the coupling into the o-ring to create a water-tight seal. Ensure the protective sleeve is flush with the test cap.

K. Prep for finished wall. Fasten the (4) threaded rods from the finish bag into the faceplate, through the floor slots until each stud extends 5/8" past the closet bowl flange. Add included 5/8" washer to each lower rod, and secure nut on each of the four rods. NOTE: If the studs are too long, they will bottom out in the finishing cap nut, preventing proper gasket compression which may result in leakage.

L. Slide plastic rod protectors onto rods.

M. Perform 10-FT head pressure test per local plumbing codes.

N. Finished wall should be installed. Ensure appropriate size opening is made for protected coupling. For EZ-Set hole sizing, refer to figure 14 of Zurn form C45.

O. Finish Coupling Preparation

a. Standard, -CS, and –CC Couplings

i. Remove coupling protector. Ensure coupling extends 5/16" from finished wall. Knock out the test cap with a hammer and deburr sharp edges.

b. EZ-Set Coupling

i. Remove coupling protector. Hang the EZCUTGUIDE (purchased separately). Using an oscillating multi-tool with flush cut blade, remove the test cap and excess coupling length. Deburr sharp edges.

ii. Prep the coupling end and flange. Following PVC Cement manufacturer's instructions, glue flange to pipe with "TOP" properly aligned.

P. Fasten a backup nut and washer onto each 5/8" rod. Adjust hardware so that the front surface of each flat washer is 1/16" in front of the finished wall. All bearing washers must be in the same plane to support the fixture and prevent cracking.

Q. Peel off the removable backing from one side of the Neo-Seal Gasket and seat into the groove of the water closet outlet horn.

R. Peel off the removable backing from the opposite side of the gasket and hang the water closet bowl on the threaded rods. Ensure Neo-Seal gasket seals to the coupling.

- S. Assemble a fiber washer and cup nut onto each rod and hand tighten. Secure closet with half-turn with a wrench on each nut to complete the installation. NOTE: The closet should not make contact with the finished wall.

### **3.3 PROTECTION**

- A. Protect installed EZCarry vertical siphon jet water closet carrier system from damage during construction.

**END OF SECTION**