Specification Drainage Engineering Guide
Carrier Systems
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PICTORIAL INDEX

Z1201 
EZCARRY™ High Performance Horizontal Water Closet System  
No-Hub/Hub and Spigot Series

Z1202 
EZCARRY™ High Performance Vertical Water Closet System  
No-Hub/Hub and Spigot Series

Z1203 
Adjustable Horizontal Siphon Jet  
No-Hub/Hub and Spigot Series

ZE1203 
Adjustable Horizontal Siphon Jet  
No-Hub/Hub and Spigot Series

ZN1203 
Adjustable Horizontal Siphon Jet  
No-Hub/Hub and Spigot Series

ZF1203 
Adjustable Horizontal Siphon Jet  
No-Hub/Hub and Spigot Series

Z1203-X 
Adjustable Horizontal Siphon Jet  
No-Hub/Hub and Spigot Series

Z1203-XH  
Adjustable Horizontal Siphon Jet  
No-Hub/Hub and Spigot Series

Z1203-XB 
Adjustable Horizontal Siphon Jet  
No-Hub/Hub and Spigot Series

Z1204 
Adjustable Vertical Siphon Jet  
No-Hub/Hub and Spigot Series

Z1204-XB  
Bariatric Carrier - 1000 Lb.  
Adjustable Vertical Siphon Jet  
No-Hub Series

Z1204-XH 
Extra-Heavy-Duty 750 Lb.  
Adjustable Vertical Siphon Jet  
No-Hub Series

ZN1204 
Adjustable Vertical Siphon Jet  
No-Hub Series

ZF1204 
No-Hub Vertical Siphon Jet  
One-Piece Carrier  
No-Hub Series

Z1204-XB 
Bariatric Carrier - 1000 Lb.  
Adjustable Vertical Siphon Jet  
No-Hub Series

Z1208 
Vertical Siphon Jet  
Water Closet Support System

Z1209 
Vertical Offset Siphon Jet  
Water Closet Support System

ZN1209 
Vertical Offset Siphon Jet  
Water Closet Support System

Z1212 
Wall Closet Support System
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<td><img src="image2.png" alt="Exposed Arm System" /></td>
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<td>Residential Water Closet Support System No Hub</td>
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**PICTORIAL INDEX**
## APPLICATION INDEX

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<td>Plate Type</td>
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<td>System Accessories</td>
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## PRODUCT COMPLIANCE

Zurn systems comply with ANSI A112.6.1M and are listed with IAPMO. For verification of a selected carrier, contact your local Zurn Sales Representative.

## SPECIFY A WATER CLOSET SYSTEM

```
Z___NR3-CE-VP
```

Prefix

Model

Connection Type

(N) No-Hub

(H) Hub and Spigot

Fitting Type

(L) Left

(R) Right

(D) Double

Waste Line Dimension

Options

*List Alphabetically
Z1201 and Z1202 EZCarry™ High Performance Water Closet Carrier System

**OPTIONS and VARIATIONS**

All Zurn systems optional variations are specified as a prefix and or suffix letter or number added to the series designation.

**PREFIXES**
- **Z**  D.C.C.I System with Zurn “ZZ” Adjustable Coupling
- **ZQ**  D.C.C.I System with NPT Faceplate, Non-Adjustable Coupling

**SUFFIXES**
- **-A**  Auxiliary Support Assembly (For “P” Dim. Greater than 18” [457mm])
- **-CE**  Illustrated
  
- **-CL**  Custom Length Standard Polymer Coupling with Integral Test Cap (Specify length 4” [102mm], 8” [203 mm], 10” [254 mm], 12” [305 mm]) NPSM Thread type only
- **-CS**  2 1/4” [57mm] Polymer Coupling with Integral Test Cap (NPSM Thread type only)
- **-F**  Floor Mounted Back Outlet Closet Connection

---

Pipe Supplier by others

Z1201-A Illustrated

1) CUT TO LENGTH

2) GLUE ON FLANGE

- **-CC**  Corrosion Resistant Cast Iron Coupling  
  (2-1/4" [57mm] to 12" [305mm] NPSM thread type only)
- **-CE**  EZ-Set Coupling (Patent Pending) with Intergal Test Cap  
  (Available 6” [152mm], 12” [305 mm] or longer when specified. Min. length 5” [127 mm])

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(For Dimensional Data See Z1212)

Z1201-F Illustrated
OPTIONS and VARIATIONS

All Zurn systems optional variations are specified as a prefix and or suffix letter or number added to the series designation.

PREFIXES

Z   D.C.C.I System with Zurn “ZZ” Adjustable Coupling
ZQ  D.C.C.I System with NPT Faceplate, Non-Adjustable Coupling

-G  Galvanized Cast Iron

-JC  2" (51mm) Auxiliary Inlet with 1/8" Bend for Back to Back Installations with Closet and Urinal or Closet and Lavatory (Z1201-NL4, Z1201-NR4)

-JJ  Two 2" (51mm) Auxiliary Inlets (Z1202-N4, Z1202-ND4, Z1202-H4, and Z1202-HD4)

-JL  2" (51mm) Left-Hand Auxiliary Inlet (Z1202-N4, Z1202-ND4, Z1202-H4, Z1202-HD4, and Z1202-1HR4)

-JR  2" (51mm) Right-Hand Auxiliary Inlet (Z1202-N4, Z1202-ND4, Z1202-H4, Z1202-HD4, and Z1202-1HR4)

-M  Auxiliary Foot Support for “P” Dim. 10" [254 mm] thru 18" [457 mm]

-RYK  Unistrut Pre-Fab Foot Support

-VP  Vandal-Proof Trim

-45  Finishing Frame for Siphon Jet System

-50  Flush Valve Supply Support for Water Closet
OPTIONS and VARIATIONS

All Zurn systems optional variations are specified as a prefix and or suffix letter or number added to the series designation.

PREFIXES
Z  Dura-Coated Cast Iron System with “ZZ” Coupling (Z1203 thru Z1209 Series)
ZE  Dura-Coated Cast Iron System with “ZZ” Coupling (ZE1203 Series)
ZEQ  Dura-Coated Cast Iron System with NPT Faceplate and Non-Adjustable Coupling (ZE1203 Series)
ZQ  Dura-Coated Cast Iron System with NPT Faceplate and Non-Adjustable Coupling

SUFFIXES
–A  Auxiliary Support Assembly (For ‘P’ Dim. Greater than 18” [457mm])

–AV  2” [51mm] NH Vent Connection (Z1215, Z1216)

Z- Adjustable coupling with O-ring seal easily adjusted with Zurn coupling wrench.

ZQ- Coupling system for cutting off to required length after testing.

Z1204-A Illustrated

ZQ- and ZEQ- Illustrated
Water Closet Carriers Z1203, Z1204, Z1207, Z1209, Z1212, Z1214, Z1215, Z1216, Z1280, Z1282, Z1283, Z1284 and Z1285

OPTIONS and VARIATIONS

SUFFIXES (Continued)

- **B**  Blowout Type Fixture Support (3-Bolt System Chair Carrier)

- **BC**  Back Cleanout (Z1203, Z1204, not available on back to back systems)

- **BE**  Barrel Extender (Up to 26" [660mm], Overall length of 40" [1016mm])

- **CC**  Corrosion Resistant Cast Iron Coupling (6" [151mm] to 12" [305mm])

- **CL**  Coupling Length Greater than 12" [305 mm] (Specify Length Required)

- **CV**  Closed vent (Use only where local codes allow)

- **F**  Floor Mounted Back Outlet Closet Connection

- **G**  Galvanized Cast Iron

- **HT**  Hanger Type Closet Adapter (Z1283, Z1285)

- **JC**  2" [51mm] Auxiliary Inlet with Sanitary Sweep on Faceplate Centerline

- **LA**  Less Auxiliary Connections (Z1209)

- **M**  Auxiliary Foot Support For ‘P’ Dim. 10” [254mm] - 18” [457 mm]

- **PA**  Adjustable Coupling Connection for Penal Fixtures (Z1214 and Z1215)

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ZURN INDUSTRIES, LLC  SPECIFICATION DRAINAGE OPERATION, 1801 PITTSBURGH AVENUE, ERIE, PA 16502  PHONE: 855-ONE-ZURN (855-663-9876)  FAX: 814-454-7929  www.zurn.com
OPTIONS and VARIATIONS

SUFFIXES (Continued)

–PB  Coupling Connection for Penal Fixtures (Z1214 and Z1215)

–PC  Coupling Connection with 4" [102mm] Cleanout for Penal Fixtures (Z1214 and Z1215)

–PN  NH Coupling Connection with 4" [102mm] Cleanout For Penal Fixtures (Z1214 and Z1215)

–PD3  3" [76mm] Double Plastic Pipe Connection (Z1285)

–PP  Anti-Clogging Pin in Plug (Z1214, Z1215 and Z1216)

–PF  Pre-Fab Foot

–PS  Pre-Fab Slotted Foot

–RYK  Unistrut Pre-Fab Foot

–T  Threaded Connection

–VP  Vandal Proof Trim

–X  500lb. Carrier with Heavy-Duty Rear Anchor Tie Down

–XB  Bariatric 1000lb. Carrier (Z1203, Z1204, Z1207)

–XH  Extra-Heavy-Duty 750 lb. Carrier

–X3  3" [76mm] Carrier Foot Extension Assembly

–Y  Foot Support System (Z1283, Z1284 and Z1285)
Water Closet Carriers Z1203, Z1204, Z1207, Z1208, Z1209, Z1212, Z1214, Z1215, Z1216, Z1280, Z1282, Z1283, Z1284 and Z1285

OPTIONS and VARIATIONS

SUFFIXES (Continued)

-45 Finishing Frame for Siphon Jet Closet
(For Blowout System specify -45-B)

-50 Flush Valve Supply Support for Water Closets

-57 4" “Neo-Seal” Closet Gasket Kit
This positive sealing gasket with a special adhesive formula eliminates leakage often encountered with inferior gaskets. The gasket is made from expanded Closed Cell DuPont Neoprene. It’s a controlled-analysis, specially prepared seal (not a sponge rubber). Retains its resiliency permanently. Resistant to water, petroleum products, chemicals, similar substances, or rotting. Complete installation instructions are contained in an easily stacked flat cardboard container.

EASY TO INSTALL

1. Wipe gasket recess of fixture clean with dry cloth. Remove and discard inner foam circle from NEO-SEAL gasket.

2. Carefully lift and remove adhesive backing off one side of NEO-SEAL gasket.

3. Press adhesive-coated side of NEOSEAL gasket firmly into gasket recess in fixture being sure it bottoms out in groove, and that contact between adhesive and china is maintained.

4. Wipe lip of coupling clean and dry.

5. Remove adhesive backing off other side of NEO-SEAL gasket.

6. Place closet in position over adjustable coupling without delay. Coupling should extend beyond finished wall far enough to compress NEO-SEAL gasket (see other side).

Clean surfaces are important. Take special precaution to make sure all surfaces are clean and dry before using adhesive gasket.

-77 Retrofit Cap Nut
All Zurn systems optional variations are specified as a prefix and or suffix letter or number added to the series designation.

**PREFIXES**
- **Z**  Dura-Coated Cast Iron System with Plate(s) or Arms

**SUFFIXES**
- **–B**  Blow-out Type Fixture Support (Z1217, Z1218)
- **–BL**  Bi-Level Cooler Support (Z1225)
- **–BR**  Bracket Support (Z1225)
- **–CB**  Carrier Bank
- **–CC**  Corrosion Resistant 6” [152mm] Long Cast Iron Coupling (Z1217)
- **–CL**  Coupling Length Greater Than 6” Per Inch [152mm] (Specify Length) (Z1217)
- **–CU**  Floor to Ceiling Upright (Z1221 and Z1222)
- **–D**  Back-to-Back System (Z1221, Z1222, Z1223, and Z1225)
- **–EZ**  Easy-to-Install Assembly (Z1221, Z1222, Z1223 and Z1225)
- **–F4**  Z1208 Fitting with 4” [102mm] Vent (Z1217)
- **–F32**  3” [76mm] Z1208 Fitting with 2” [51mm] Vent (Z1217)
- **–SL**  Stud Length Over 6” [152mm] (Per Inch) (Specify Length) (Z1221, Z1222, Z1223 and Z1225)
- **–VP**  Vandal-Proof Trim
- **–UA**  Urinal Adapter (Z1222)
- **–WS**  Wall Support Valve Plate (Z1217 and Z1218) (Specify Valve Name and Number)
- **–1**  Longer Urinal (For Ea. 1’ over 5’) (Z1223)
- **–2**  Bearing Plate Assembly (Z1223)
- **–58**  Flush Valve Supply Support (Z1221 and Z1222)
- **–F4 Illustrated**
- **–79**  Paraplegic Rough-In
- **–L2**  Less Bearing Plate (Z1225)
Lavatory Carriers Z1224, Z1229, Z1231, and Z1236

OPTIONS and VARIATIONS

All Zurn systems optional variations are specified as a prefix and or suffix letter or number added to the series designation.

PREFIXES

Z  Dura-Coated System with Universal Plates (Z1224)
Z  Dura-Coated System with A.R.C. Exposed Arms (Z1229 and Z1236)
Z  Dura-Coated System with Concealed Arms (Z1231)

SUFFIXES

–AL  Adapter Lug (Z1231 and Z1236)
  Hardware for cast iron lavatories with integral anchor lugs

–BS  Bar Support Valve Plate (Z1236)

–CB  Carrier Bank
–CU  Floor to Ceiling Upright (Z1231)
–D  Back-to-Bank System
–E2  Concealed Arm Escutcheons 2" Long (Z1231)
–E4  Concealed Arm Escutcheons 4" Long (Z1231)
–E6  Concealed Arm Escutcheons 6" Long (Z1231)
–EZ  Easy-to-Install Assembly (Z1224, Z1229, and Z1236)
–SL  Sleeve length over 3 1/4" [83mm] or Stud length over 6" [152 mm] Specify length (Z1224, Z1229, and Z1236)
–WL  Waste Line Sleeve (Z1231-EZR)

–CB  Carrier Bank
–CU  Floor to Ceiling Upright (Z1231)
–D  Back-to-Bank System
–E2  Concealed Arm Escutcheons 2" Long (Z1231)
–E4  Concealed Arm Escutcheons 4" Long (Z1231)
–E6  Concealed Arm Escutcheons 6" Long (Z1231)
–EZ  Easy-to-Install Assembly (Z1224, Z1229, and Z1236)
–SL  Sleeve length over 3 1/4" [83mm] or Stud length over 6" [152 mm] Specify length (Z1224, Z1229, and Z1236)
–WL  Waste Line Sleeve (Z1231-EZR)

–WS  Wall Support Valve Plate
–1  Longer Sink (Z1224, Z1229 and Z1236)
–2  Bearing Plate Assembly (Z1224)
–5  Corner Lavatory Support (Z1224)
–79  Paraplegic Rough-In (Z1231)
–VP  Vandal Proof Trim
Arm and Plate Systems for Lavatory Carrier Systems Z1251, Z1253, Z1254, Z1255, Z1256, Z1257, Z1258 and Z1259

OPTIONS and VARIATIONS

All Zurn systems optional variations are specified as a prefix and or suffix letter or number added to the series designation.

PREFIXES
- Z    Dura-Coated Cast Iron System with Plate(s) or Arms (Z1259)
- Z    Dura-Coated System with A.R.C. Exposed Arms (Z1255, Z1256, Z1257, and Z1258)
- Z    Dura-Coated System with Concealed Arms (Z1251, Z1253, and Z1254)

SUFFIXES
- BS  Bar Support Valve Plate (Z1255, Z1256, Z1257 and Z1258)
- E2  Concealed Arm Escutcheons 2" [51mm] Long (Z1251, Z1253, and Z1254)
- E4  Concealed Arm Escutcheons 4" [102mm] Long (Z1251)
- E6  Concealed Arm Escutcheons 6" [152mm] Long (Z1251)
- SL  Stud Length Over 6" [152mm]
- VP  Vandal-Proof Trim (Z1255, Z1256, Z1257 and Z1258)
- W6  6" [152mm] Wide Support Plate (Z1251)
- 79  Paraplegic Rough-In
Z1201 Off-The-Floor Water Closet System Offers:

1. All Dura-Coated cast iron construction with 500 lb. load bearing capability to A.N.S.I. standards.
2. Vertical adjustment of 4-1/2" [114mm] - 9" [229mm] for Siphon-Jet closet installation. System accommodates for both paraplegic and standard rough-in requirements.
3. 13 5/8" [356mm] required from finished wall to back of system (Z1201-NL4, NR4).
**Z1203 Off-the-Floor Water Closet System Offers:**

1. All Dura-Coated cast iron construction with 300 lb. load bearing capability to A.N.S.I. standards.
2. Vertical adjustment of 4-1/2" [114mm] to 9" [229mm] for Siphon-Jet closet installation. System accommodates for both paraplegic and standard rough-in requirements.
3. 14" [356mm] required from finished wall to back of system (Z1203 NL4, NR4).
Z1204-1N
Installed in No-Hub waste systems, the Zurn Rigid System offers minimal deflection at three hundred cantilevered pounds. Through three tie down bolts, the system is rigidly secured and supports the fixture independent of the finished wall.

Z1214
Installed in No-Hub waste systems, for use with floor mounted back outlet water closets. The Z1214 system offers adjustable coupling, optional vent and back auxiliary inlet.
**Z1222**
Installed in 2 x 4 stud wall, offers fixture support independent of wall. The system is lagged to the floor as shown. Standard hardware furnished for wall thickness (front of plate to finished wall) up to 4-3/4" and minimum space requirements for system are 3-3/8".

**Z1231-SL**
Installed behind a block wall. The fixture is installed over cast iron arms and leveled by use of four leveling screws. Securing the fixture is accomplished by turning down the locking devices. Larger sleeves can be used to accommodate thicker wall materials.
Z1231-EZR ADJUSTMENT INSTRUCTIONS  Factory Assembly

STEP 1
Refer to installation instructions in the box/bag containing the arms and sleeves to determine the appropriate dimensions for the fixture.

STEP 2
Measure from the bottom of the upright ("E") to the center of the large tapped (1-1/4" - 11-1/2" NPT) hole in the flat plate header ("C") to the set height dimension for centerline of sleeves. Tighten the nuts and U-bolts ("D") to secure flat plate headers ("C") to each upright ("E").

STEP 3
Slightly loosen the two hex head machine screws ("B") which are in the right-hand side upright at the stamped-in ruler and slot on cross bars ("A"). Make sure the bottom of the uprights ("E") are sitting on a flat surface if standing up or against an even surface if laying down, to make sure the bottoms are even. Using the stamped-in ruler on the cross bars ("A"), slide the right-hand upright ("E") to the desired location until the center of the top and bottom hex head machine screws ("B") are at the proper stamped-in ruler mark (i.e. 17-1/2, 18-1/4, etc.) for the center-to-center spacing between the uprights ("E") which will then give the sleeves and arms their correct center-to-center spacing dimensions. Tighten the two hex head machine screws ("B").

STEP 4
Recheck tightness of all U-bolts and nuts ("D") and hex head machine screws ("B").

STEP 5
Mount uprights ("E") to concrete floor using 1/2 lags (furnished by others).
High Rough-In Requirements for Physically Handicapped Water Closet Bowls

Illustrations shown below are based on meeting ANSI Standard A-112.19.2, Vitreous China Plumbing Fixtures, Para. 5.1.3.3 stating “Physically Handicapped” water closet bowl is a siphon jet water closet bowl measuring 18” from the floor to the top of the rim.

The dimensional drawings shown are based on using 1/8” [3mm] pitch and 5-1/4” [133mm] centerline of closet outlet to finished floor; 15” [381mm] to rim for standard bowl height with 7-1/4” [184mm] and 18” [457mm] respectively for physically handicapped bowl.

Physically handicapped water closet bowls may also be incorporated on the vertical Z1202 System by locating the faceplate in the highest position on the fitting.

For installation of fixtures, up to a ten fixture maximum, either side of stack fitting:

- 5-1/4” Centerline of Closet Outlet
- 7-1/4” Centerline of Handicapped Closet Outlet (Will vary depending on fixture and flooring)
- 1/8” Pitch Per Foot

The handicapped fixture can be installed on any of the last three fixtures at the far right end of a battery.

### Adjustable Zurn Z1201 and Z1202 Systems

![Adjustable Zurn Z1201 and Z1202 Systems](image)

For any given rough-in height, the fitting can be adjusted up and down (a maximum of 4” [102mm]) to accommodate drainage pitch on long runs. When back-to-back and handicapped rough-ins are used, note that there are further limitations to the number of fittings in a given run.
High Rough-In Requirements for Physically Handicapped Water Closet Bowls
Illustrations shown below are based on meeting ANSI Standard A-112.19.2, Vitreous China Plumbing Fixtures, Para. 5.1.3.3 stating “Physically Handicapped” water closet bowl is a siphon jet water closet bowl measuring 18” [457mm] from the floor to the top of the rim.

The dimensional drawings shown are based on using 1/8” [3mm] pitch and 5-1/4” [133mm] centerline of closet outlet to finished floor; 15” [381mm] to rim for standard bowl height with 8-1/4” [210mm] and 18” [457mm] respectively for physically handicapped bowl.

Physically handicapped water closet bowls may also be incorporated on the vertical Z1204 System by locating the faceplate in the highest position on the fitting.

For installation of fixtures, up to a ten fixture maximum, either side of stack fitting:
5-1/4” Centerline of Closet Outlet
8-1/4” Centerline of Handicapped Closet Outlet (Will vary depending on fixture and flooring)
1/8” Pitch Per Foot

The handicapped fixture can be installed on any of the last three fixtures at the far right end of a battery.

Maximum Adjustment of Zurn Z1203 and Z1204 Systems

<table>
<thead>
<tr>
<th>C/L Fixture Outlet Height From Floor</th>
<th>Centerline Drain Line Position From Floor</th>
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<td>Min.</td>
<td>Max.</td>
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<tr>
<td>Dimensions In Inches</td>
<td></td>
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<td>4-1/2</td>
<td>1/4</td>
</tr>
<tr>
<td>4-3/4</td>
<td>1/2</td>
</tr>
<tr>
<td>5</td>
<td>3/4</td>
</tr>
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<td>5-1/2</td>
<td>1-1/4</td>
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<tr>
<td>6</td>
<td>1-3/4</td>
</tr>
<tr>
<td>6-1/2</td>
<td>2-1/4</td>
</tr>
<tr>
<td>7</td>
<td>2-3/4</td>
</tr>
<tr>
<td>7-1/2</td>
<td>3-1/4</td>
</tr>
<tr>
<td>8</td>
<td>3-3/4</td>
</tr>
<tr>
<td>8-1/4</td>
<td>4</td>
</tr>
<tr>
<td>8-1/2</td>
<td>4-1/4</td>
</tr>
<tr>
<td>8-3/4</td>
<td>4-1/2</td>
</tr>
<tr>
<td>9</td>
<td>4-3/4</td>
</tr>
<tr>
<td>9-1/2</td>
<td>5-1/4</td>
</tr>
</tbody>
</table>

For any given rough-in height, the fitting can be adjusted up and down (a maximum of 4” [102mm]) to accommodate drainage pitch on long runs. When back-to-back and handicapped rough-ins are used, note that there are further limitations to the number of fittings in a given run.
DETERMINATION OF RIGHT- AND LEFT-HAND SYSTEMS

To ensure a tight seal at outlet of closet having a rectangular groove the front end of the coupling should be located to compress the gasket adequately when the fixture is in the desired location. This dimension will vary depending on depth of recess (Dim. A) in closet. The following formula may be used to determine amount coupling should extend (Dim. B) in front of finished wall.

\[ A + X - \frac{1}{2}'' = B \]

With fixtures having vee shaped grooves, coupling may have to extend an additional 1/8" or more. With any closet, the coupling must compress the gasket enough so the adhesive coated surfaces are in good contact with the china and the face of the coupling.

IMPORTANT: Bearing nuts and washers must be located properly to establish and maintain dimension "X."

Dimensions below based on \( B = 3/8\)".

<table>
<thead>
<tr>
<th>'P' Dimension*</th>
<th>Coupling Length</th>
<th>Stud Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>Min.</td>
<td>Max.</td>
<td></td>
</tr>
<tr>
<td>1-3/4</td>
<td>2-3/4</td>
<td>6</td>
</tr>
<tr>
<td>2-1/2</td>
<td>3-1/2</td>
<td>8</td>
</tr>
<tr>
<td>3</td>
<td>4</td>
<td>8</td>
</tr>
<tr>
<td>4</td>
<td>5</td>
<td>9</td>
</tr>
<tr>
<td>5</td>
<td>6</td>
<td>10</td>
</tr>
<tr>
<td>6</td>
<td>7</td>
<td>11-1/4</td>
</tr>
<tr>
<td>7</td>
<td>8</td>
<td>11-1/4</td>
</tr>
<tr>
<td>7-1/2</td>
<td>8-1/2</td>
<td>11-1/4</td>
</tr>
<tr>
<td>8-1/4</td>
<td>9-1/4</td>
<td>12-3/4</td>
</tr>
<tr>
<td>9</td>
<td>10</td>
<td>12-3/4</td>
</tr>
<tr>
<td>10</td>
<td>11</td>
<td>15-3/4</td>
</tr>
<tr>
<td>11</td>
<td>12</td>
<td>15-3/4</td>
</tr>
</tbody>
</table>

DETERMINATION OF COUPLING AND FIXTURE DISTANCES FROM FRONT OF WALL

Stand facing the fixture. If flow is from the right, Zurn System is right-hand. If flow is from the left, Zurn System is left-hand.

Inset illustrates depth of gasket recess in fixture and coupling with normal pressure on gasket.

DISTANCE FIXTURE BOLTS LOCATED IN FRONT OF WALL

To locate fixture bolts:

\[ T = \text{thickness of wall flange of closet} \]
\[ X = \text{distance closet is to be located from finished wall} \]
\[ B = \text{distance fixture studs should extend in front of finished wall}. \]

Thus, \( T + X + 5/8'' = B \)

The "Minimum 'P' Dimension" is the minimum dimension from front of faceplate to finished wall:

<table>
<thead>
<tr>
<th>Z1201/Z1202/Z1203/Z1204</th>
<th>Z1208 thru Z1209</th>
</tr>
</thead>
<tbody>
<tr>
<td>1”</td>
<td>1”</td>
</tr>
</tbody>
</table>

The "Standard 'P' Dimension," which is regularly supplied unless otherwise specified, provides for the following dimensions from the front of the faceplate to finished wall:

<table>
<thead>
<tr>
<th>Z1201/Z1202/Z1203/Z1204</th>
<th>Z1208 thru Z1209</th>
</tr>
</thead>
<tbody>
<tr>
<td>Min.</td>
<td>Max.</td>
</tr>
<tr>
<td>5”</td>
<td>6”</td>
</tr>
<tr>
<td>6”</td>
<td>6”</td>
</tr>
</tbody>
</table>

Longer "P" dimensions (or shorter) with couplings up to and including 12" are furnished at no extra charge. An additional charge will be made for greater "P" dimensions (see Suffix -CL).

ALLOWANCE FOR CONCEALED FLUSH VALVES

When wall closets are installed with concealed flush valves having rear inlet supply, location of faceplate is important – for Siphon Jet bowls it is not necessary to locate faceplate behind supply line, since supply line will clear top of faceplate and vent line. For Blow Out installations, however, faceplate must be located behind supply line to prevent interference of faceplate with supply line.
1. Lay carrier fitting on floor, waste line barrel down. See Fig. 1

2. Place faceplate gasket from trim kit on fitting. Align the gasket holes with the tapped holes in the fitting. See Fig. 2

3. 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). See Fig. 3

4. Factory faceplate/feet assembly is set for a 5 ½" rough-in height. Locating featuring C (See Fig. 4) on each foot identifies at 7 ½" rough-in height, commonly used for ADA applications. To adjust the rough-in height, loosen the feet 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. 4a. Secure bolts using wrench (25-35 lb-ft of torque).

Note: For certain rough-in heights, the bottom of the faceplate may need to be removed along the defined cut lines. See Fig 4b
5. Standing the assembly upright, loosen the faceplate bolts to adjust the waste line height and pitch as required. Re-secure bolts using ratcheting wrench (25-35 lb-ft of torque). See Fig. 5

6. Secure the anchor stabilizer to the fitting using the anchor foot assembly instructions and hardware provided. Ensure the anchor foot sits level on the floor and nuts are tightened. See Fig. 6

7. Align the carrier with the waste line. Mark locations on the floor for anchoring studs. See Fig. 7

8. Prep the floor for concrete anchors and place the carrier back into position. Lag down the feet using ½” anchors (supplied by others). See Fig. 8

9. Using the o-ring seal and lubricant bag, ensure the o-ring and coupling are well lubricated. Insert the o-ring, ensuring it does not twist. See Fig. 9

NOTE: O-ring installation is critical. Improper installation will cause leakage behind the finished wall.
10. Coupling Installation

a. **Standard, -CS, and –CC Couplings** - 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. See Fig. 10

Adjust the coupling to extend 5/16” from the finished wall. Ensure the coupling threads are protected from debris adhesion to allow 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. See Fig. 10a

b. **EZ-Set™ Coupling** - 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. See Fig. 10 & 10b
11. Prep for finished wall. Fasten the (4) threaded rods from the finish bag into the faceplate, through the foot slots until each rod 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. See Fig. 11

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.

12. Slide plastic rod protectors onto rods. See Fig. 12

13. Perform 10-ft head pressure test.

14. Finished wall should be installed. Ensure appropriate size opening is made for coupling. For EZ-Set™ Coupling hole sizing See Fig. 13

15. Finish Coupling Preparation

   a. Standard, -CS, and -CC Couplings – Remove coupling protector. Ensure coupling extends 5/16" from finished wall. Knock out the test cap with a hammer and deburr sharp edges. See Fig. 14

   b. EZ-Set™ Coupling – Remove coupling protector. Hang the EZCUTGUIDE (purchased separately) See Fig. 15. Using an oscillating multi-tool with flush cut blade, remove the test cap and excess coupling length. Deburr sharp edges. See Fig. 16

      Remove EZCUTGUIDE. Prep the coupling end and flange, following PVC Cement manufacturer's instructions. Glue flange to pipe with “TOP” properly aligned. See Fig. 17.
16. Thread a backup nut and bearing 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. See Fig. 18. All bearing washers must be in the same plane to support the fixture and prevent cracking.

17. Peel off the removable backing from one-side of the Neo-Seal Gasket and seat into the groove of the water closet outlet horn. See Fig. 19.

18. Peel off removable backing liner from the opposite side of the gasket and hang the water closet onto the threaded rods. Ensure Neo-Seal gasket seals to the coupling. See Fig. 20.

19. Assemble a fiber washer and cap nut onto each rod and hand tighten. Secure closet with an additional half-turn using a wrench on each nut to complete the installation. See Fig. 21.

Note: The closet should not make contact with the finished wall.
A modified MaPs Test was conducted using 350g of Miso paste with 1.28 GPF.

60 feet of pipe was connected to the Z1201 Carrier system, on a straight run with 2% slope.

The test was validated by a third party.

**Modified Line Carry Testing**

- **EZCarry™ High Performance Carrier System 1.28 gpf**
  - 3rd Party Verified
  - Length: 50.4'

- **Zurn High Efficiency Toilet and Carrier System 1.1 gpf**
  - 3rd Party Verified
  - Length: 46.5'

- **Industry Average System 1.28 gpf**
  - Internal Test
  - Length: 21.1'

- **Competitor System 1.1 gpf**
  - Length: 17.5'

*350g Miso Paste — Industry Average
INSTALLATIONS

Horizontal Adjustable Carriers

Z1201-ND4  Double in Metal Stud Wall
Z1201-N4  Single in Metal Stud Wall
Z1201-ND4  Double in Block Wall
Z1201-N4  Single in Block Wall

Vertical Adjustable Carriers

Z1202-ND4  Double in Metal Stud Wall
Z1202-N4  Single in Metal Stud Wall
Z1202-ND4  Double in Block Wall
Z1202-N4  Single in Block Wall
CARRIER SYSTEMS

INSTALLATIONS

Horizontal Adjustable Carriers

Vertical Adjustable Carriers
INSTALLATIONS

Vertical Fixed Carriers

Hanger Plate Carriers

Arm Lavatory Carriers
**EZCARRY-HANDLE**  Carry Handle (Z1201 and Z1202)

**EZCUTGUIDE**  EZSet Cutting Guide for use with –CE Coupling System (Z1201 and Z1202)

**Z1200-ADJ-NUT**  Flush Wall Adjustment Nut/Washer

**Z1200-AUX-SPRT**  Auxiliary Support Assembly (Required for P-Dim. 10" [254mm] - 18" [457mm])

**Z1200-AUX-FT-SPRT**  Auxiliary Foot Support Assembly

**Z1200-CC-TESTCAP**  Mechanical Test Cap Assembly for –CC Coupling

**Z1200-CPLGWRNCH**  Adjusting Wrench for 2" “ZZ” Coupling

**Z1200-CPLGWRNCH-3**  Adjusting Wrench for 3" “ZZ” Coupling

**Z1200-CPLGWRNCH-4**  Adjusting Wrench for 4" “ZZ” Coupling

**Z1200-CC-TESTCAP Illustrated on Z1201-N**

**Z1200-CARRIER SYSTEMS**  EZCARRY-HANDLE Illustrated on Z1201

**Z1200-CARRIER SYSTEMS**  EZCUTGUIDE Illustrated

**Z1200-FT-EXT-2**  2" [51mm] Foot Extension Assembly

**Z1200-FT-EXT-3**  3" [76mm] Foot Extension Assembly

**Z1200-FT-EXT-4**  4" [102mm] Foot Extension Assembly

**Z1200-NEOSEAL-GSKT-4**  4" [102mm] Bonded “Neo-Seal” Closet Gasket Kit

**Z1200-NEOSEAL-GSKT-4**  Z1200-FT-EXT-2, 3, 4 Illustrated

**Z1200-FLRMNT-ADPT**  Adapter Flange Assembly for Floor Mounted Back Outlet Fixture

**Z1200-FINFRAME-SJ**  Finishing Frame for Siphon Jet System

**Z1200-FINFRAME-B**  Finishing Frame for Blowout Type System (Not for use with Z1201 and Z1202)

**Z1200-FINFRAME-SJ Illustrated on Z1201-N**

**Z1200-FINFRAME-B Illustrated**

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**ZURN INDUSTRIES, LLC**  SPECIFICATION DRAINAGE OPERATION, 1801 PITTSBURGH AVENUE, ERIE, PA 16502  PHONE: 855-ONE-ZURN (855-663-9876)  FAX: 814-454-7929  www.zurn.com
Z1200-OFL  Offset Fitting-Left

Z1200-OFR  Offset Fitting-Right

Z1200-RI-GAUDE  Water Closet Rough-In Gauge

Z1200-RTRTFT-NUT  Retro-Fit Cap Nut

Z1200-SPLY-SPRT-UR  Flush Valve Supply Support for Urinals

Z1200-SPLY-SPRT-WC  Flush Valve Supply Support for Water Closets

Z1200-VP-WRNCH  Wrench for Vandal-Proof Screws

Z1200-VP-HRDWR-1/4  Vandal-Proof Cap Nuts 1/4"

Z1200-VP-HRDWR-3/8  Vandal-Proof Cap Nuts 3/8"

Z1200-VP-HRDWR-5/8  Vandal-Proof Cap Nuts 5/8"
Zurn Cast Iron conforms to ASTM Specification for Gray Iron Castings A 48, Class 25. It is produced utilizing the latest equipment and newest developed foundry techniques. Zurn cast iron castings are characterized by a high degree of strength, corrosion-resistance, workmanship, and finish.

Zurn Duresist is a ductile iron complying with ASTM Specification A 536, Grade 60-45-10. Its physical properties make it ideal for grates and drain components that are subjected to severe and heavy duty service. Its chemical characteristics make possible a degree of corrosion-resistance far superior to that of cast iron. Zurn Duresist exhibits remarkable stress qualities, possessing a yield strength in the same range as that of cast carbon steel, while its ability to absorb the shock loading of traffic areas is unequalled, making its use ideal for all areas where extra heavy duty service is a requirement – whether indoors or outdoors – in chemical and metal processing plants or other industrial applications.

"Zurn Dura Coat" is a specially formulated paint designed to resist cracking and chipping. Dura Coat is a latex based coating developed to be used with cast iron substrate.

Zurn Galvanized Cast Iron is a process of applying heavy zinc coating to a thoroughly cleaned iron casting. This coating contains 95% zinc. Zurn galvanizing can be supplied on all cast iron parts. It increases longevity and is recommended wherever the discoloration caused by oxidation of cast iron is objectionable. Galvanize should be used in coastal and industrial areas where corrosive atmosphere may be encountered.

Cadmium Plated Cast Iron is a process of applying a heavy cadmium coating to a thoroughly cleaned iron casting. This coating contains 95% cadmium in a cold applied process. Cadmium plating can be supplied on all cast iron parts. It increases longevity and is recommended wherever the discoloration caused by oxidation of cast iron is objectionable.

Properties of Basic Ductile Versus Cast Iron

<table>
<thead>
<tr>
<th>Properties</th>
<th>Cast Iron</th>
<th>Ductile Iron</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specification</td>
<td>Class 25</td>
<td>60-45-10</td>
</tr>
<tr>
<td>Tensile Strength (PSI)</td>
<td>25/30,000</td>
<td>60/80,000</td>
</tr>
<tr>
<td>Yield Strength (PSI)</td>
<td>NIL</td>
<td>45/60,000</td>
</tr>
<tr>
<td>Elongation</td>
<td>NIL</td>
<td>10% to 25%</td>
</tr>
<tr>
<td>Modules of Elasticity</td>
<td>16 x 10</td>
<td>24 x 10</td>
</tr>
</tbody>
</table>

Zurn Duren is a semi-red brass conforming to ASTM Specification for Copper Alloy Sand Casting B 584, Copper Alloy No. 844. The exposed surface is normally supplied possessing a satin sheen texture which allows it to blend unobtrusively with surrounding finishes. When the application requires, Zurn Bronze can be polished to a high gloss.

Zurn Nickel Bronze is a unique material that is ideally suited to traffic-bearing grates and strainers in finished floor areas. It affords the combined advantage of greater strength, better appearance, and longer service life at the same price as chrome plated brass. Superior ductility and shock resistance are the result of a copper nickel alloy (Copper Alloy 997) having a wearing surface similar in appearance to satin chrome plate; however, because it does not have a plated surface it cannot chip, peel, crack, or wear off. It is highly resistant to corrosion; however, the process of oxidation will naturally occur over time with most metals. Methods have been developed to prevent, preserve, and restore metals affected by oxidation.

Chrome Plated Bronze is ideal for installation in walls, gutters, and other areas where a bright decorative finish is desired, and is not subject to the abrasive action of foot and other traffic. It is not recommended for installations where the abrasion will eventually wear through and cause peeling. It should always be specified for swimming pool fittings due to its high resistance to the halogens (chlorine, etc.), encountered in swimming pool sanitation.

Aluminum supplied is casting grade 319. This is an alloy containing both silicon and copper. It is a solid cast metal in a pleasing light gray color. The light weight, coupled with its exceptional strength and corrosion resistance, makes it ideal for drain components such as sediment buckets and strainers. When used with acid-resisting porcelain enamel coated drains, the possibility of chipping is minimized.

Zurn Stainless Steel castings are normally produced in Type CF8 (304) which is an 18-8 Austenitic Stainless possessing excellent corrosion resistant qualities. For some applications where conditions demand, Type CF8M (316) stainless steel can be supplied. Items formed from stainless steel sheet and other stainless steel products are regularly furnished in Type 304 with 316 as an optional material.

A.R.C. Acid Resisting Epoxy Coating is a baked-on powder coating, which produces a smooth, hard, high gloss finish. This epoxy based coating offers high impact resistance and excellent life expectancy in all drainage applications.

A.R.E. Acid Resisting Porcelain Enamel is a substantially vitreous or glassy inorganic coating bonded to metal by fusion at a high temperature above 800°F. This coating offers excellent acid, abrasion, and wear resistance. The coating is extremely hard and is the ultimate for sanitation in drainage applications.
Solving the puzzle of **true** paired performance


Zurn is the **only manufacturer** to offer a 1.1 gpf wall bowl system and a high efficiency carrier, providing a complete labor savings solution and added performance from rough-in through finish trim. This high efficiency restroom solution achieves industry leading line carry that no other manufacturer can provide.

High Efficiency Toilet and Carrier System
EcoVantage® 1.1 gpf [4.2 Lpf] and EZCarry™
High Efficiency Toilet and Carrier System

Feature and Benefits:

- Innovative Wall Bowl and Carrier Design
  - Engineered together to deliver reliable, consistent, and money-saving results
- 31% water savings over 1.6 gpf systems
  - Helps in achieving LEED® 30% threshold
- Evacuate waste over twice as far
  - Alleviates line carry concerns with low flow specifications
- Reliable, quick carrier installation
  - 30% Lighter with additional labor savings accessories
- 3-year warranty
  - Convenience of one manufacturer to call on for all your needs

Modified Line Carry Testing*

<table>
<thead>
<tr>
<th>System</th>
<th>Distance (ft)</th>
<th>Verification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zurn EZCarry™ High Performance Carrier</td>
<td>50.4</td>
<td>3rd Party</td>
</tr>
<tr>
<td>1.28 gpf</td>
<td></td>
<td>Verified</td>
</tr>
<tr>
<td>Zurn High Efficiency Toilet and Carrier</td>
<td>46.5</td>
<td>3rd Party</td>
</tr>
<tr>
<td>1.1 gpf</td>
<td></td>
<td>Verified</td>
</tr>
<tr>
<td>Industry Average</td>
<td>21.1</td>
<td>3rd Party</td>
</tr>
<tr>
<td>System 1.28 gpf</td>
<td></td>
<td>Internal</td>
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<tr>
<td>Competitor System</td>
<td>17.5</td>
<td></td>
</tr>
<tr>
<td>1.1 gpf</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*350g Miso Paste

Website: [www.zurn.com/hetc](http://www.zurn.com/hetc)