



Specification Drainage Engineering Guide

Carrier Systems

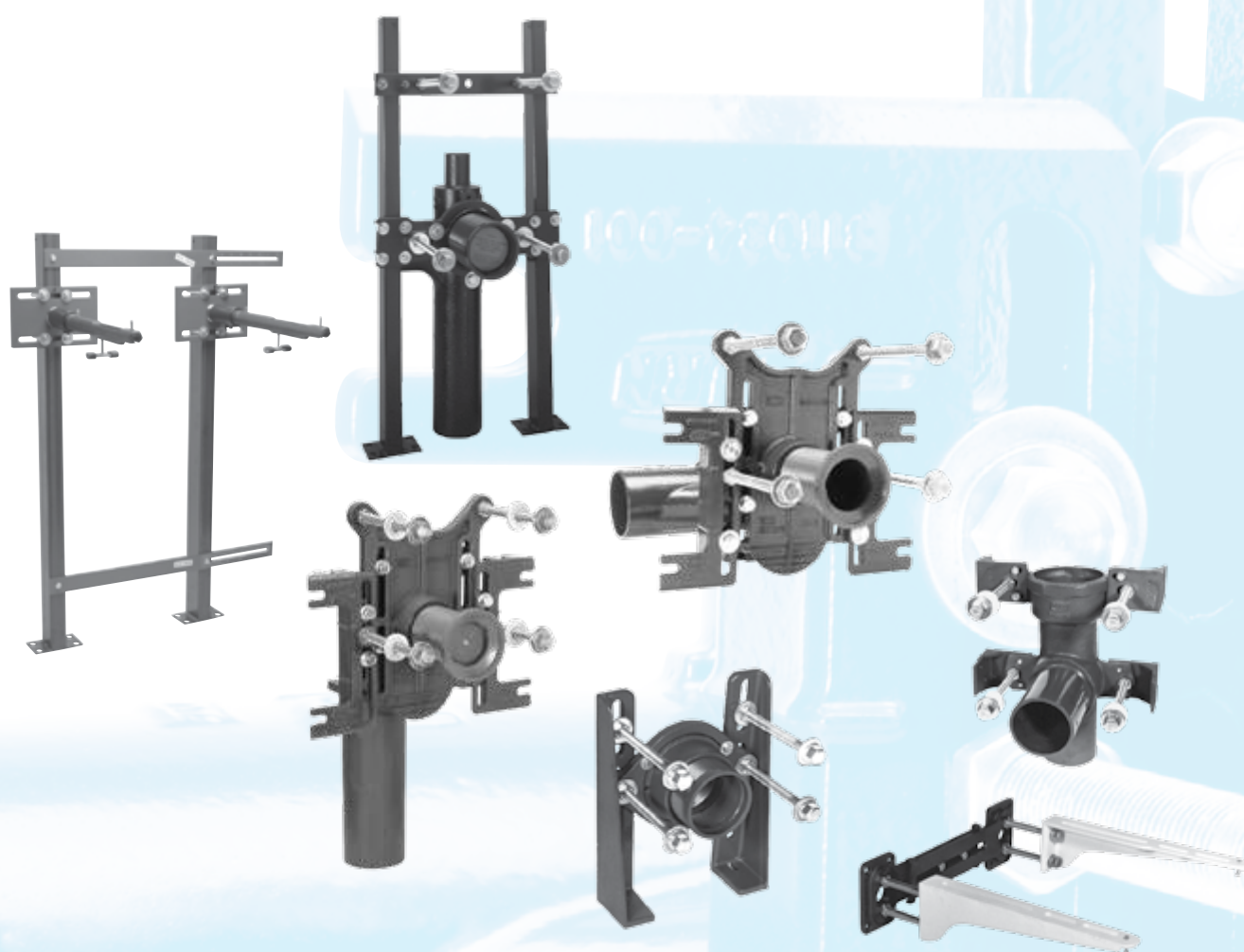


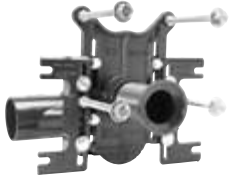
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PICTORIAL INDEX

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



ZN1204

Adjustable Vertical Siphon Jet
No-Hub Series



ZF1204

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



Z1204-X

Adjustable Vertical Siphon Jet 500 Lb.
No-Hub Series with Heavy-Duty
Rear Anchor Tie Down



Z1204-XH

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



Z1204-XB

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



Z1207

**Adjustable Horizontal High
Rough-In Siphon Jet**
No-Hub



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

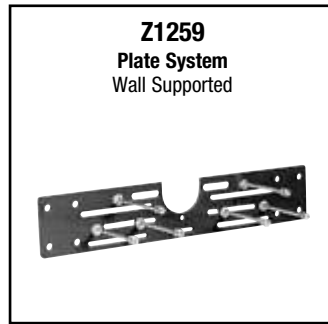
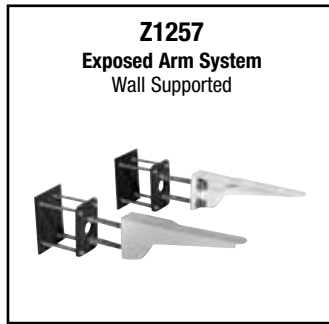
Wall Closet Support System



PICTORIAL INDEX

Z1214 Single System for Floor Mounted Back Outlet Water Closets 	Z1215 90° Double System for Floor Mounted Back Outlet Water Closets 	Z1216 90° Double No-Hub Inlet System for Floor Mounted Back Outlet Use 	Z1217 Coupling Type System Wall Urinal/Service Sink 
Z1218 Coupling Type System Wall Urinal/Service Sink 	Z1221 Plate Type System Wall Urinals 	Z1222 Plate Type System with Bearing Plate 	Z1223 Plate Type System Trough Urinals 
Z1224 Plate Type System Lavatory with Back 	Z1225 Plate Type System Water Coolers 	Z1229 Plate and Exposed Arm Heavy Sinks 	Z1231 Concealed Arm System Wall Lavatories 
Z1231-EZ Concealed Arm System Wall Lavatories 	Z1231-EZR Concealed Arm System with Adjustable Uprights And Header Plates Wall Lavatories 	Z1236 Exposed Arm System Wall Lavatories/Sinks 	Z1251 Concealed Arm System Wall Supported 
Z1253 Adjustable Concealed Arm System Wall Supported 	Z1254 Adjustable Concealed Arm System Wall Supported 	Z1255 Exposed Arm System Wall Supported 	Z1256 Exposed Arm System Wall Supported 

PICTORIAL INDEX

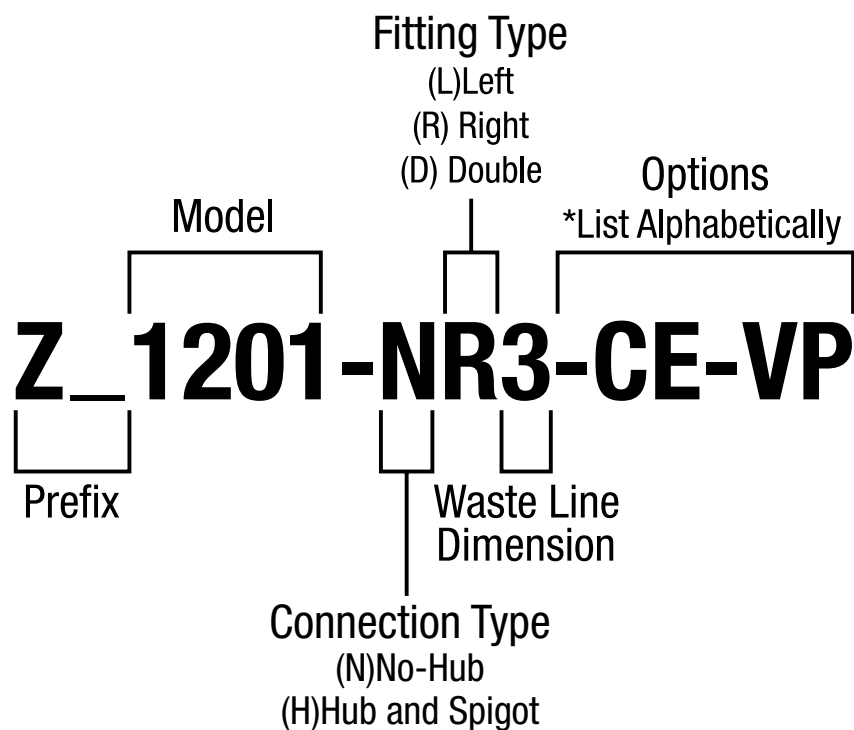


APPLICATION INDEX

APPLICATION	TYPE	RECOMMENDED CARRIER
Commercial (Cement Slab) Construction Off-the-Floor Closet	300-Lb. Rigid System	Z1201, Z1202, Z1203, ZE1203, ZN1203, Z1204, ZN1204, Z1207, Z1208, Z1209, ZN1209
	500-Lb. Rigid System	Z1201, Z1202, Z1203-X, Z1204-X
	750-Lb. Extra-Heavy-Duty	Z1203-XH, Z1204-XH
	1000-Lb. Bariatric	Z1203-XB, Z1204-XB
Wood Stud and Residential Off-the-Floor Closet		Z1212, Z1280, Z1282, Z1283, Z1284, Z1285
Penal Fixtures and Floor Mounted Back Outlet Fixtures		Z1213, Z1214, Z1215, Z1216
Off-the-Floor Lavatories	Plate Type	Z1224, Z1224-EZ, Z1259 (No Uprights)
	Concealed Arm	Z1231, Z1231-EZ, Z1231-EZR, Z1251, Z1253, Z1254 (No Uprights)
	Exposed Arm	Z1236, Z1236-EZ, Z1255, Z1256, Z1257, Z1258 (No Uprights)
Wash Sinks, Mop Sinks Heavy Cast Sinks, Service Sinks		Z1217, Z1218, Z1229, Z1229-EZ
Off-the-Floor Urinals		Z1221, Z1221-EZ, Z1222, Z1222-EZ, Z1223, Z1223-EZ
Drinking Fountains, Water Coolers		Z1225, Z1255-EZ
Eastern Style Water Closet		Z1290
System Accessories		Z1200

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


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.

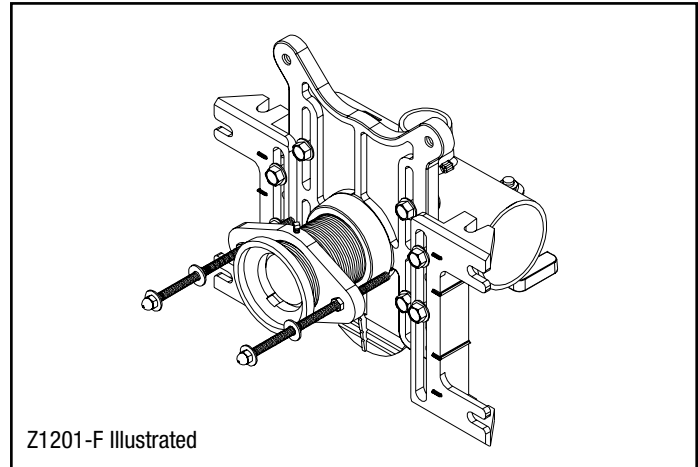
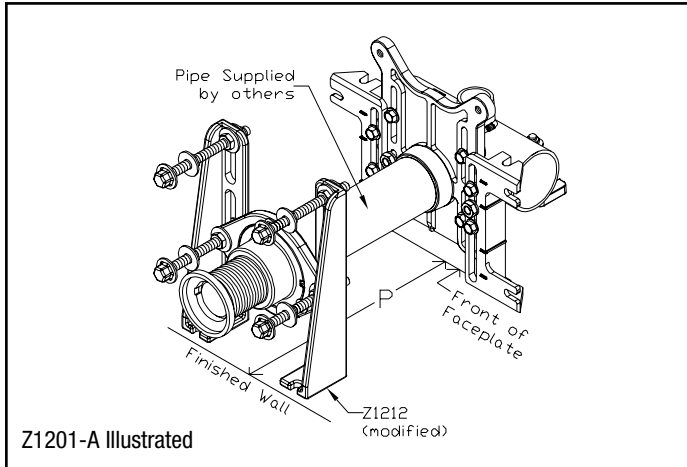
PREFIXES

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

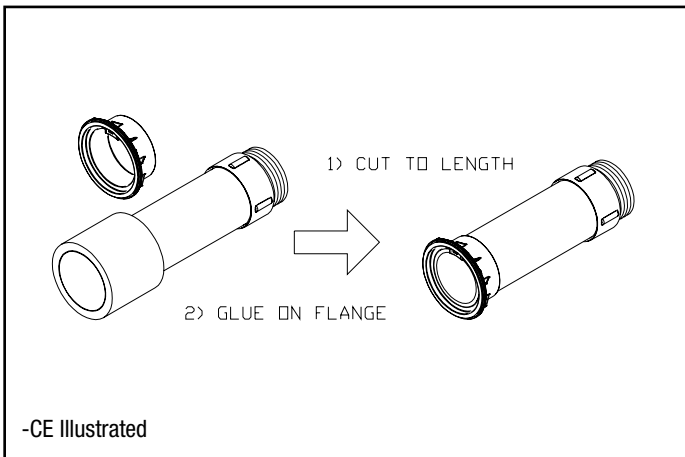
SUFFIXES

- A** Auxiliary Support Assembly (For "P" Dim. Greater than 18" [457mm])

- 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



- 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])



(For Dimensional Data See Z1212)

Z1201 and Z1202 EZCarry™ High Performance Water Closet Carrier System

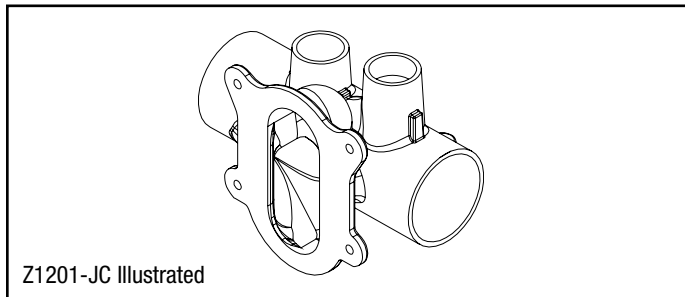
OPTIONS and VARIATIONS

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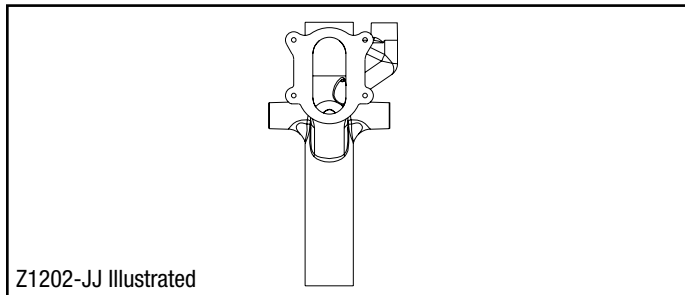
PREFIXES

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

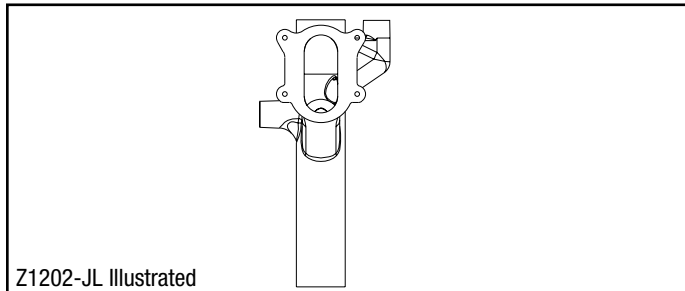
- G** Galvanized Cast Iron
- JC** 2" [51mm] Auxiliary Inlet with 1/8" Bend for Back to Back Installations with Closet and Urinal or Closet and Lavatory (Z1201-NL4, Z1201-NR4)



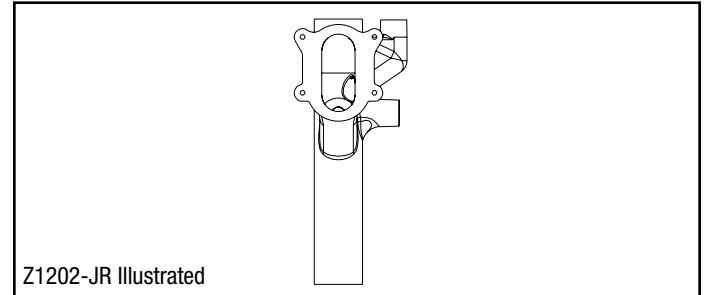
- JJ** Two 2" [51mm] Auxiliary Inlets (Z1202-N4, Z1202-ND4, Z1202-H4, and Z1202-HD4)



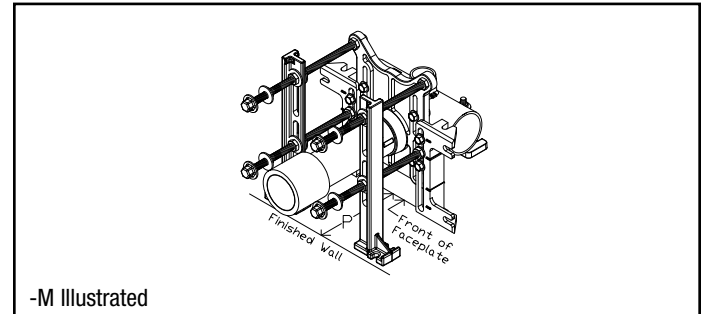
- JL** 2" [51mm] Left-Hand Auxiliary Inlet (Z1202-N4, Z1202-ND4, Z1202-H4, Z1202-HD4, and Z1202-1HR4)



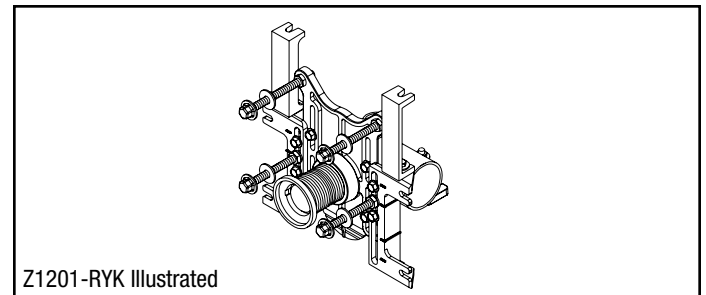
- JR** 2" [51mm] Right-Hand Auxiliary Inlet (Z1202-N4, Z1202-ND4, Z1202-H4, Z1202-HD4, and Z1202-1HR4)



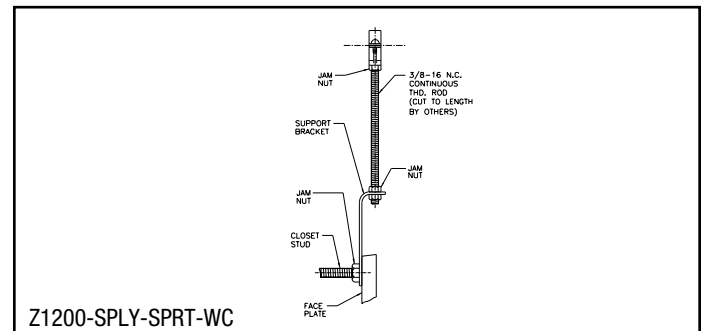
- M** Auxiliary Foot Support for 'P' Dim. 10" [254 mm] thru 18" [457 mm]



- 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



Water Closet Carriers Z1203, Z1204, Z1207, Z1208, Z1209, Z1212, Z1214, Z1215, Z1216, Z1280, Z1282, Z1283, Z1284 and Z1285

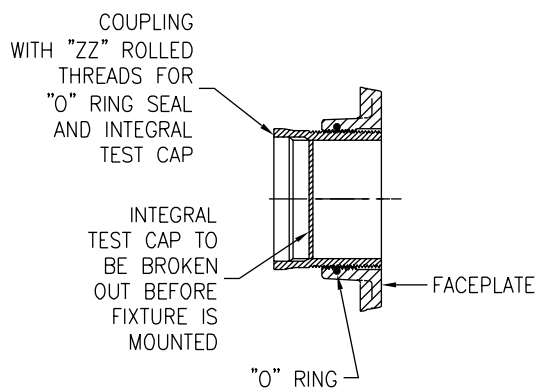
OPTIONS and VARIATIONS

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

PREFIXES

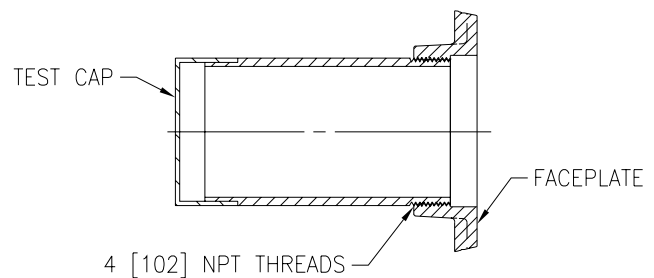
- Z** Dura-Coated Cast Iron System with "ZZ" Coupling (Z1203 thru Z1209 Series)
- ZE** Dura-Coated Cast Iron System with "ZZ" Coupling (ZE1203 Series)
- ZEQ** Dura-Coated Cast Iron System with NPT Faceplate and Non-Adjustable Coupling (ZE1203 Series)
- ZQ** Dura-Coated Cast Iron System with NPT Faceplate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

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



Z- and ZE- Illustrated

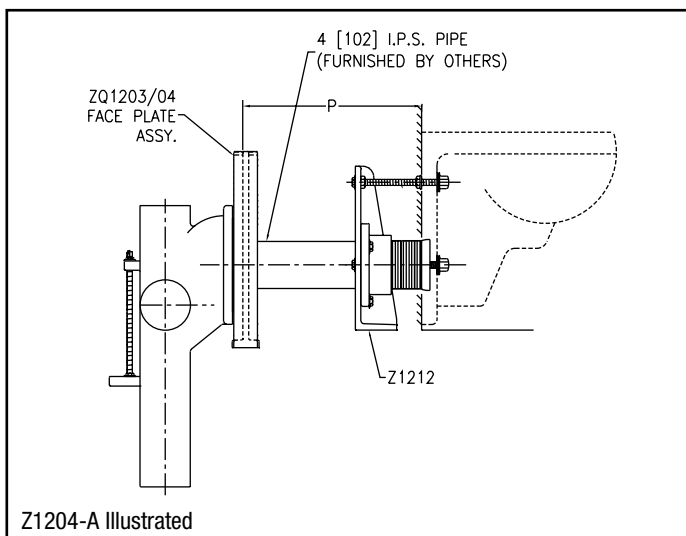
ZQ- Coupling system for cutting off to required length after testing.



ZQ- and ZEQ- Illustrated

SUFFIXES

- A** Auxiliary Support Assembly (For 'P' Dim. Greater than 18" [457mm])



Z1204-A Illustrated

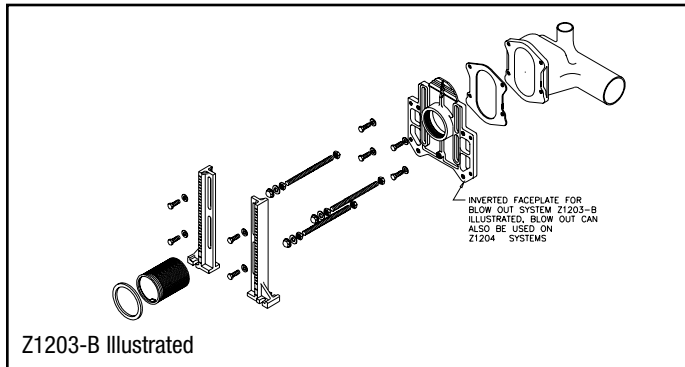
- AV** 2" [51mm] NH Vent Connection (Z1215, Z1216)

Water Closet Carriers Z1203, Z1204, Z1207, Z1208, Z1209, Z1212, Z1214, Z1215, Z1216, Z1280, Z1282, Z1283, Z1284 and Z1285

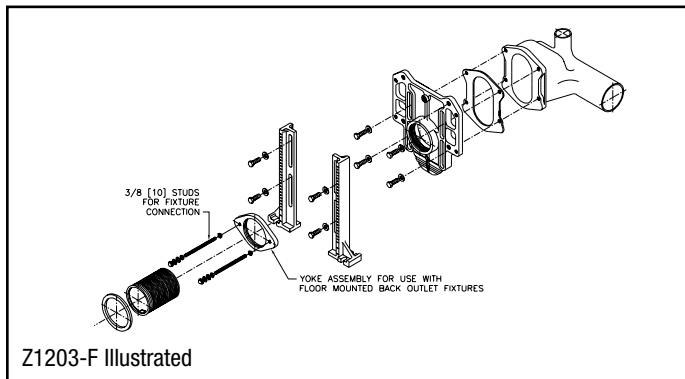
OPTIONS and VARIATIONS

SUFFIXES (Continued)

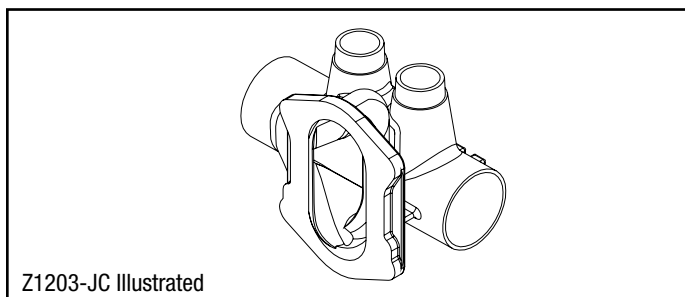
- B Blowout Type Fixture Support (3-Bolt System Chair Carrier)



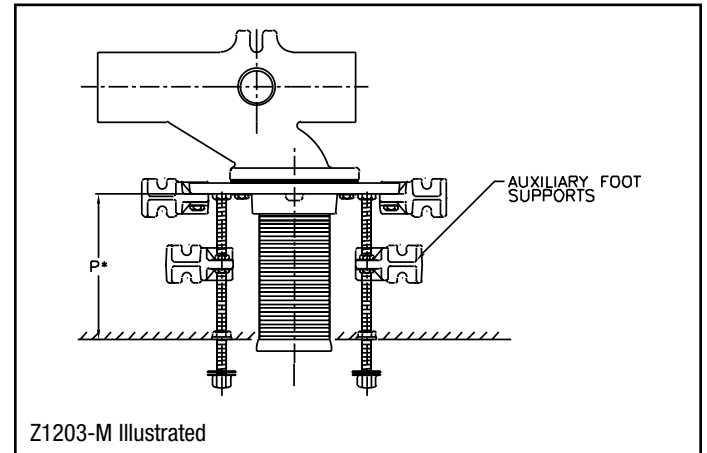
- BC Back Cleanout (Z1203, Z1204, not available on back to back systems)
- BE Barrel Extender (Up to 26" [660mm], Overall length of 40" [1016mm])
- CC Corrosion Resistant Cast Iron Coupling (6" [151mm] to 12" [305mm])
- CL Coupling Length Greater than 12" [305 mm] (Specify Length Required)
- CV Closed vent (Use only where local codes allow)
- F Floor Mounted Back Outlet Closet Connection



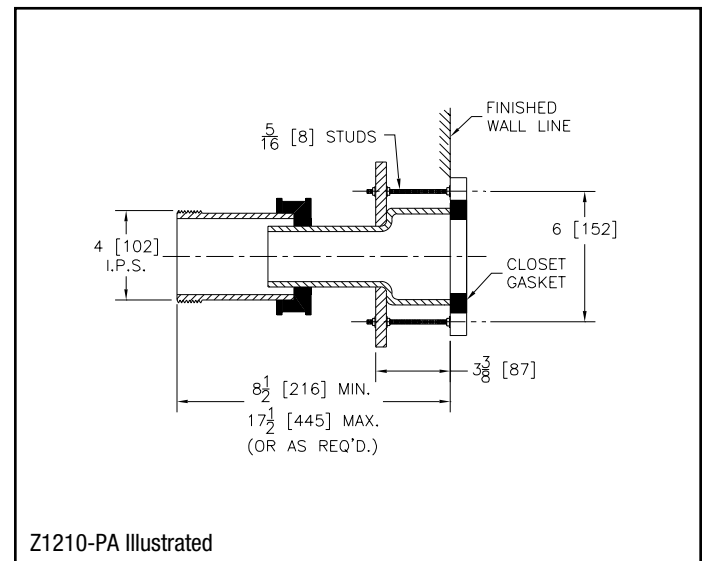
- G Galvanized Cast Iron
- HT Hanger Type Closet Adapter (Z1283, Z1285)
- JC 2" [51mm] Auxiliary Inlet with Sanitary Sweep on Faceplate Centerline



- 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)

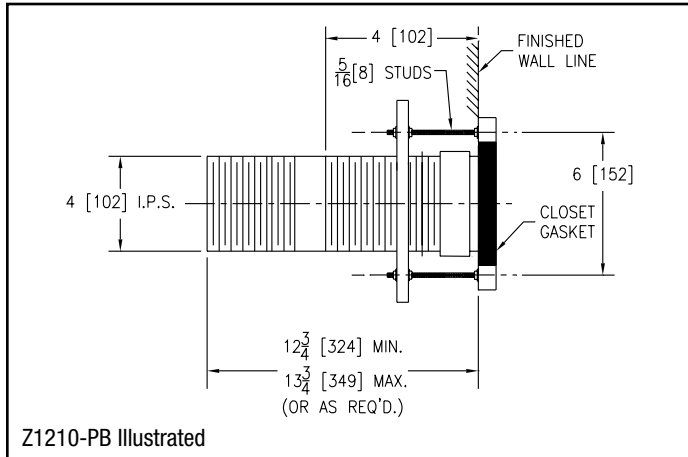


Water Closet Carriers Z1203, Z1204, Z1207, Z1208, Z1209, Z1212, Z1214, Z1215, Z1216, Z1280, Z1282, Z1283, Z1284 and Z1285

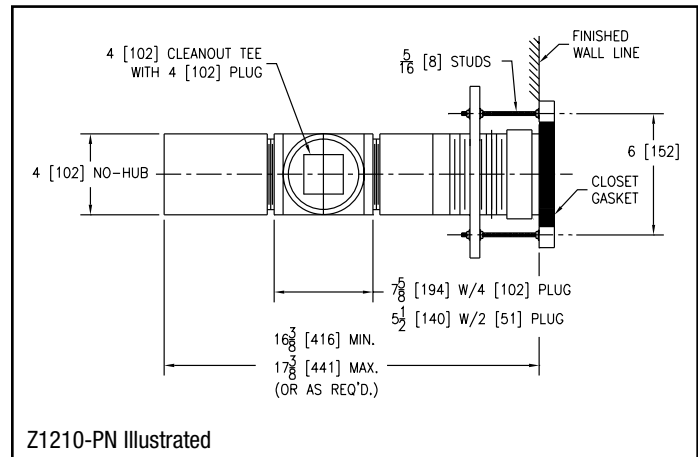
OPTIONS and VARIATIONS

SUFFIXES (Continued)

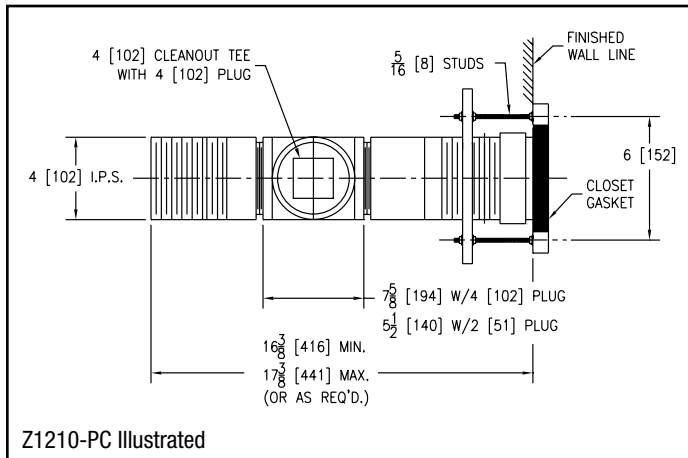
-PB Coupling Connection for Penal Fixtures (Z1214 and Z1215)



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



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



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

-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)

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

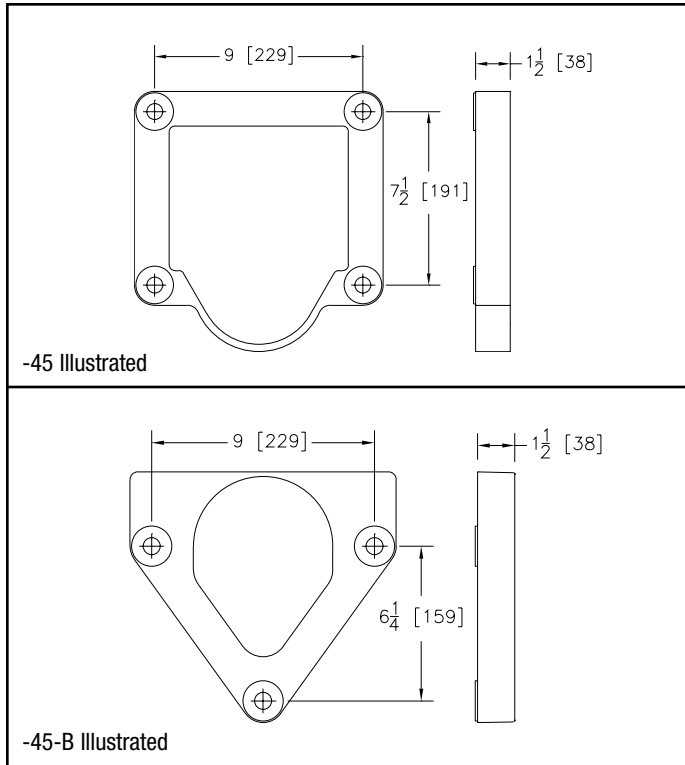
-PF Pre-Fab Foot

Water Closet Carriers Z1203, Z1204, Z1207, Z1208, Z1209, Z1212, Z1214, Z1215, Z1216, Z1280, Z1282, Z1283, Z1284 and Z1285

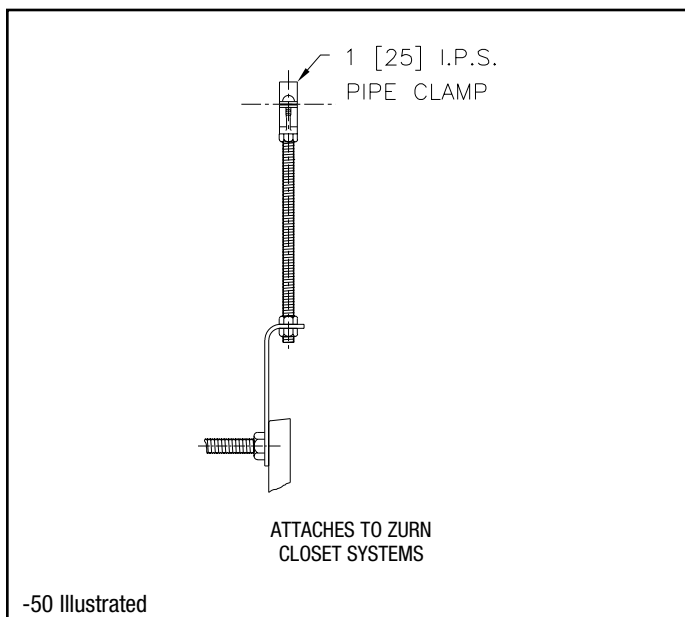
OPTIONS and VARIATIONS

SUFFIXES (Continued)

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



-50 Flush Valve Supply Support for Water Closets



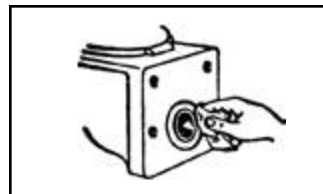
-57 4" "Neo-Seal" Closet Gasket Kit

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



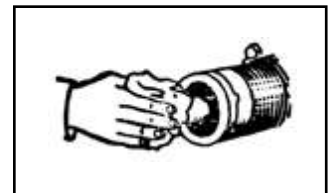
1. Wipe gasket recess of fixture clean with dry cloth. Remove and discard inner foam circle from NEO-SEAL gasket.



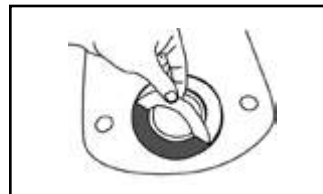
2. Carefully lift and remove adhesive backing off one side of NEO-SEAL gasket.



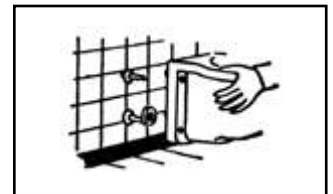
3. Press adhesive-coated side of NEOSEAL gasket firmly into gasket recess in fixture being sure it bottoms out in groove, and that contact between adhesive and china is maintained.



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

Wall Urinal/Service Sink, Trough Urinals, Water Cooler Carriers Z1217, Z1218, Z1221, Z1222, Z1223 and Z1225

OPTIONS and VARIATIONS

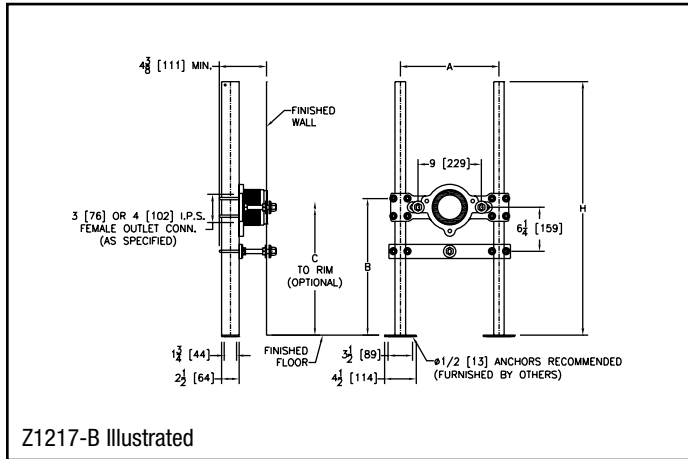
All Zurn systems optional variations are specified as a prefix and or suffix letter or number added to the series designation.

PREFIXES

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

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] Z1217 (Specify Length)

-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

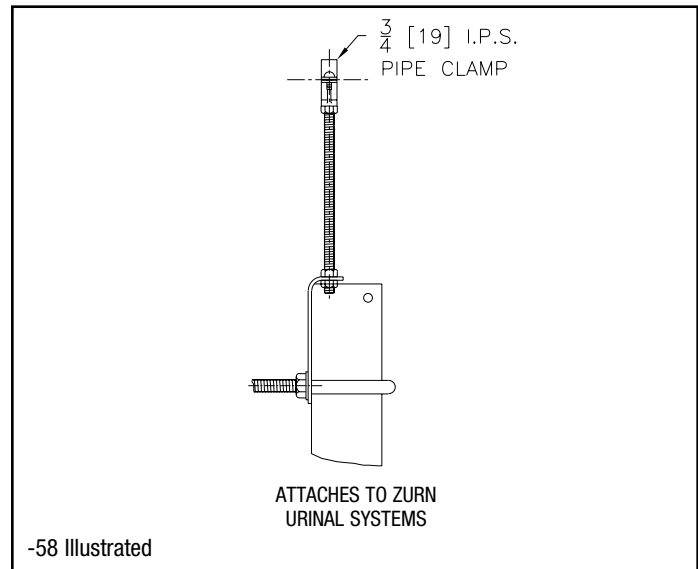
-UA Urinal Adapter (Z1222)

-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)



-79 Paraplegic Rough-In

-L2 Less Bearing Plate (Z1225)

Lavatory Carriers Z1224, Z1229, Z1231, and Z1236

OPTIONS and VARIATIONS

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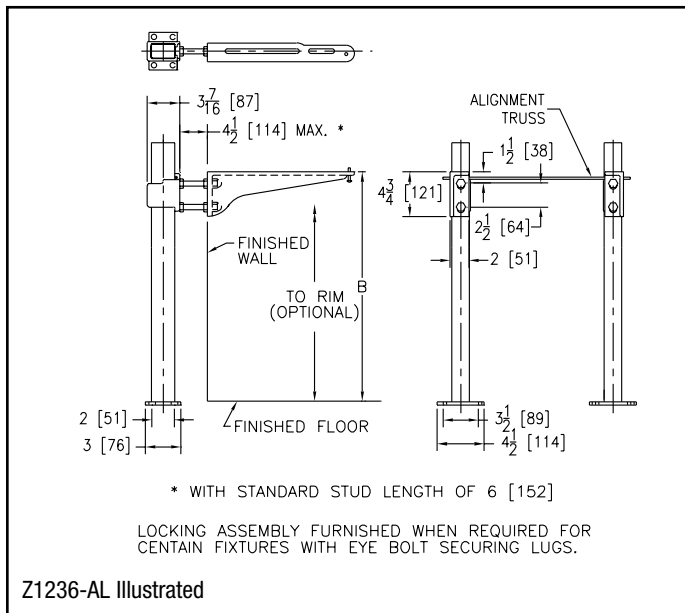
PREFIXES

- 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)

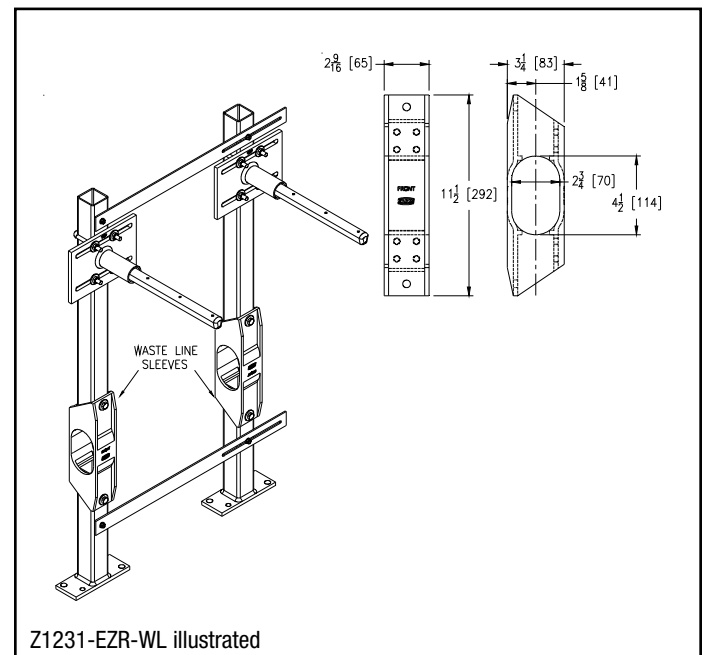
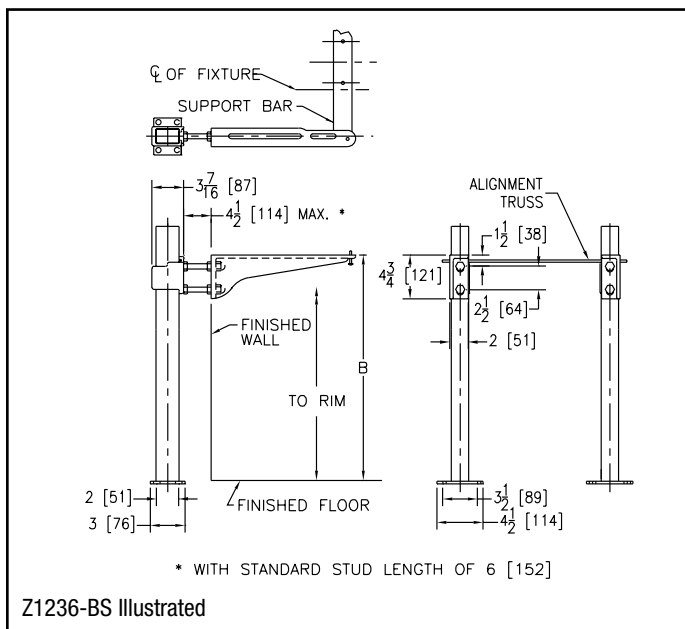
SUFFIXES

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

- 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)



-BS Bar Support Valve Plate (Z1236)



-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**

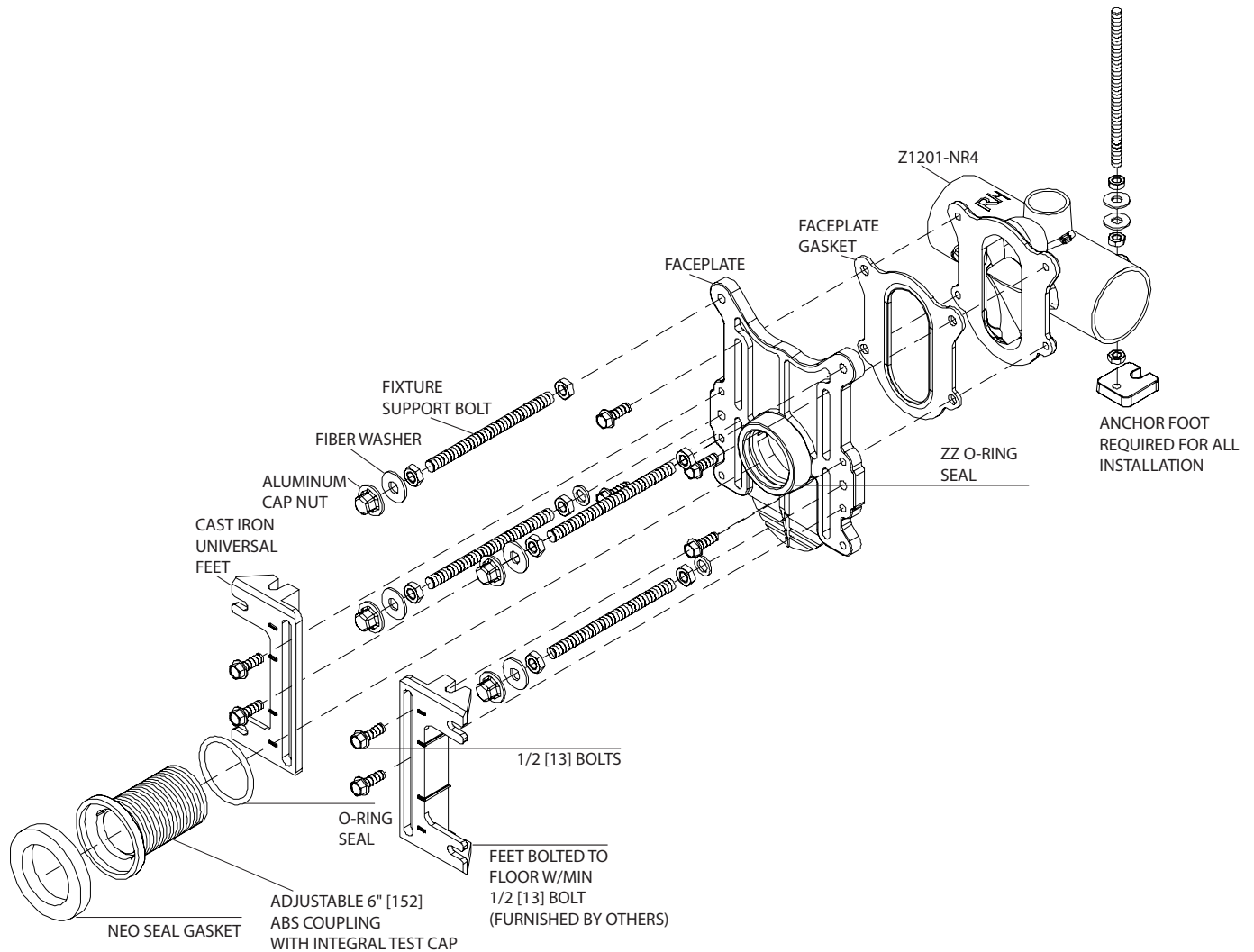
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PREFIXES

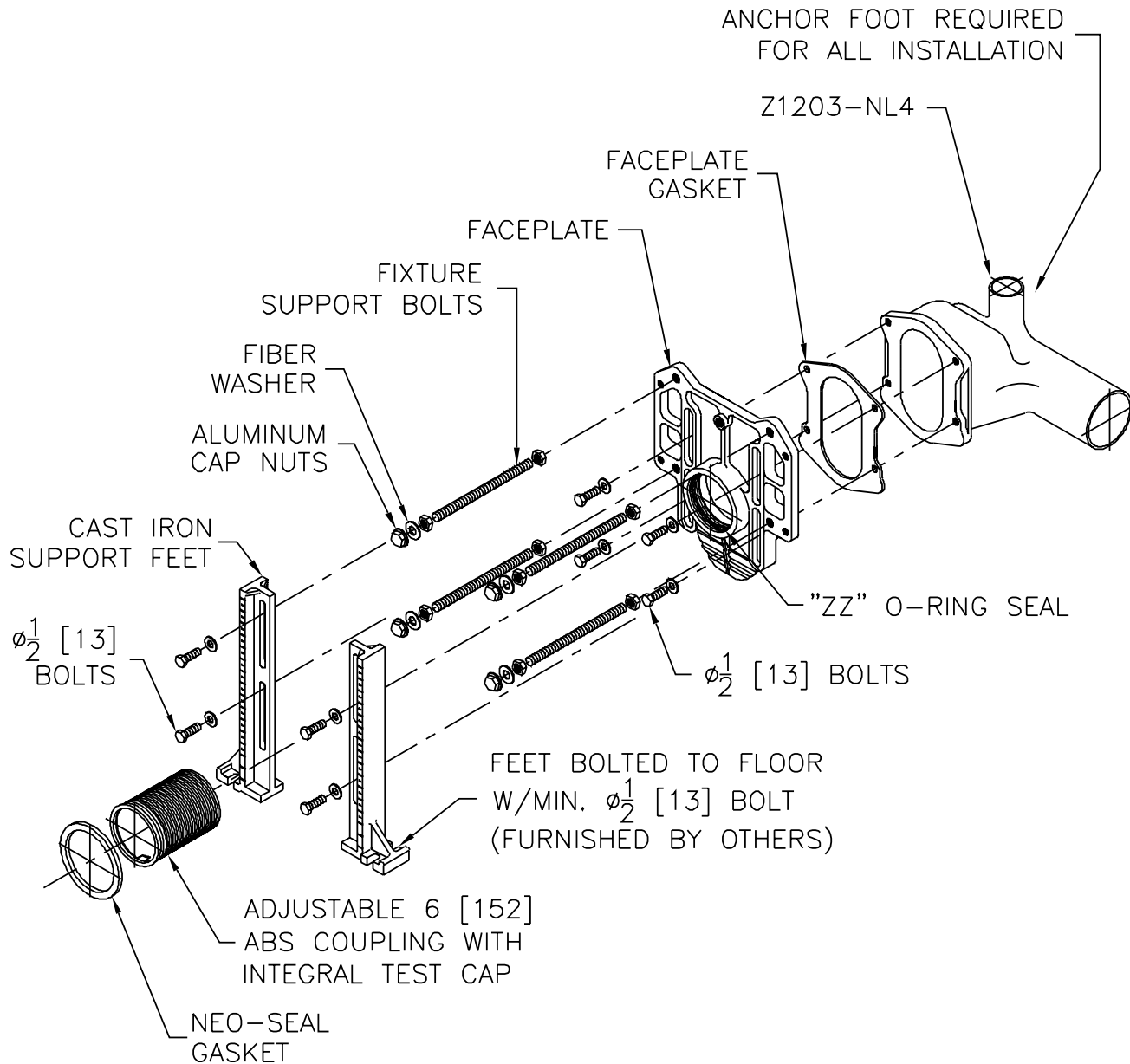
- Z** Dura-Coated Cast Iron System with Plate(s) or Arms (Z1259)
- Z** Dura-Coated System with A.R.C. Exposed Arms (Z1255, Z1256, Z1257, and Z1258)
- Z** Dura-Coated System with Concealed Arms (Z1251, Z1253, and Z1254)

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

GENERAL PRODUCT ILLUSTRATIONS
OFF-THE-FLOOR WATER CLOSET SYSTEM
Z1201-NR4

Z1201 Off-The-Floor Water Closet System Offers:

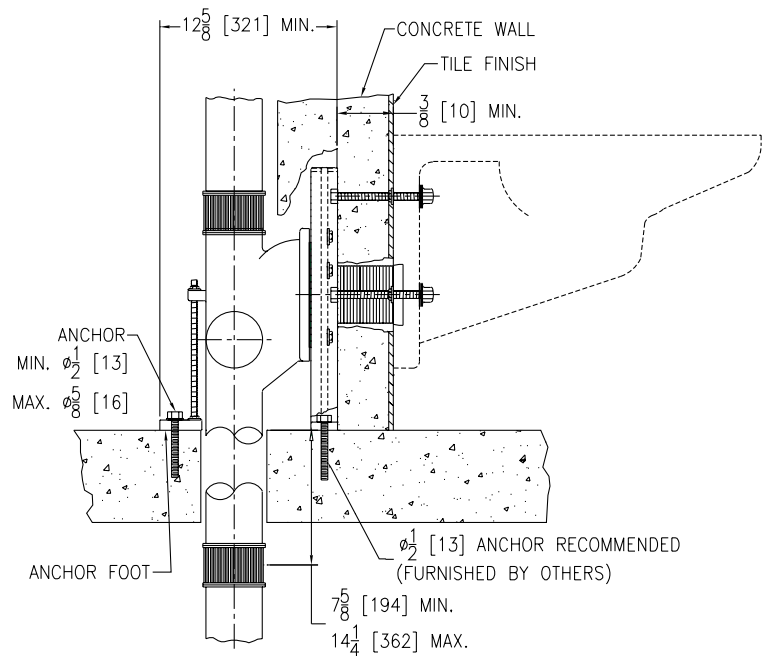
1. All Dura-Coated cast iron construction with 500 lb. load bearing capability to A.N.S.I. standards.
2. Vertical adjustment of 4-1/2" [114mm] - 9" [229mm] for Siphon-Jet closet installation. System accommodates for both paraplegic and standard rough-in requirements.
3. 13 5/8" [356mm] required from finished wall to back of system (Z1201-NL4, NR4).
4. Non-corrosive ABS adjustable coupling with integral test cap and unique 'ZZ' Zurn adjusting thread.

GENERAL PRODUCT ILLUSTRATIONS
**OFF-THE-FLOOR WATER CLOSET SYSTEM
Z1203-NL4**

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).
4. Non-corrosive ABS adjustable coupling with integral test cap and unique 'ZZ' Zurn adjusting thread.

GENERAL PRODUCT ILLUSTRATIONS
Z1204-1N

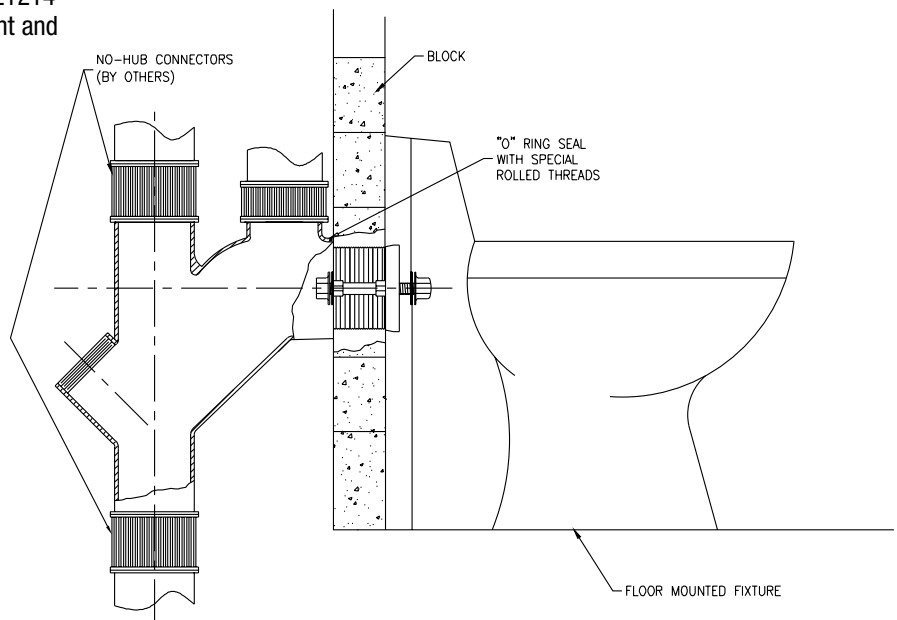
Installed in No-Hub waste systems, the Zurn Rigid System offers minimal deflection at three hundred cantilevered pounds. Through three tie down bolts, the system is rigidly secured and supports the fixture independent of the finished wall.



Floor Anchoring Bolts Furnished by Others

Z1214

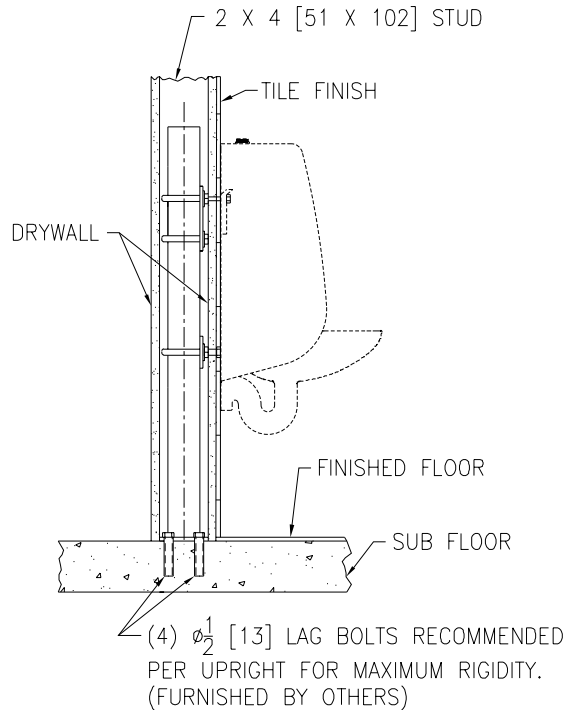
Installed in No-Hub waste systems, for use with floor mounted back outlet water closets. The Z1214 system offers adjustable coupling, optional vent and back auxiliary inlet.



GENERAL PRODUCT ILLUSTRATIONS

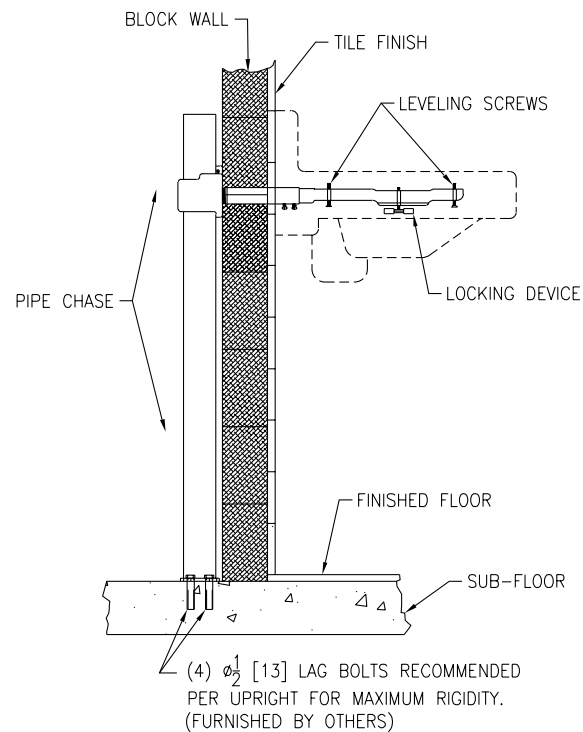
Z1222

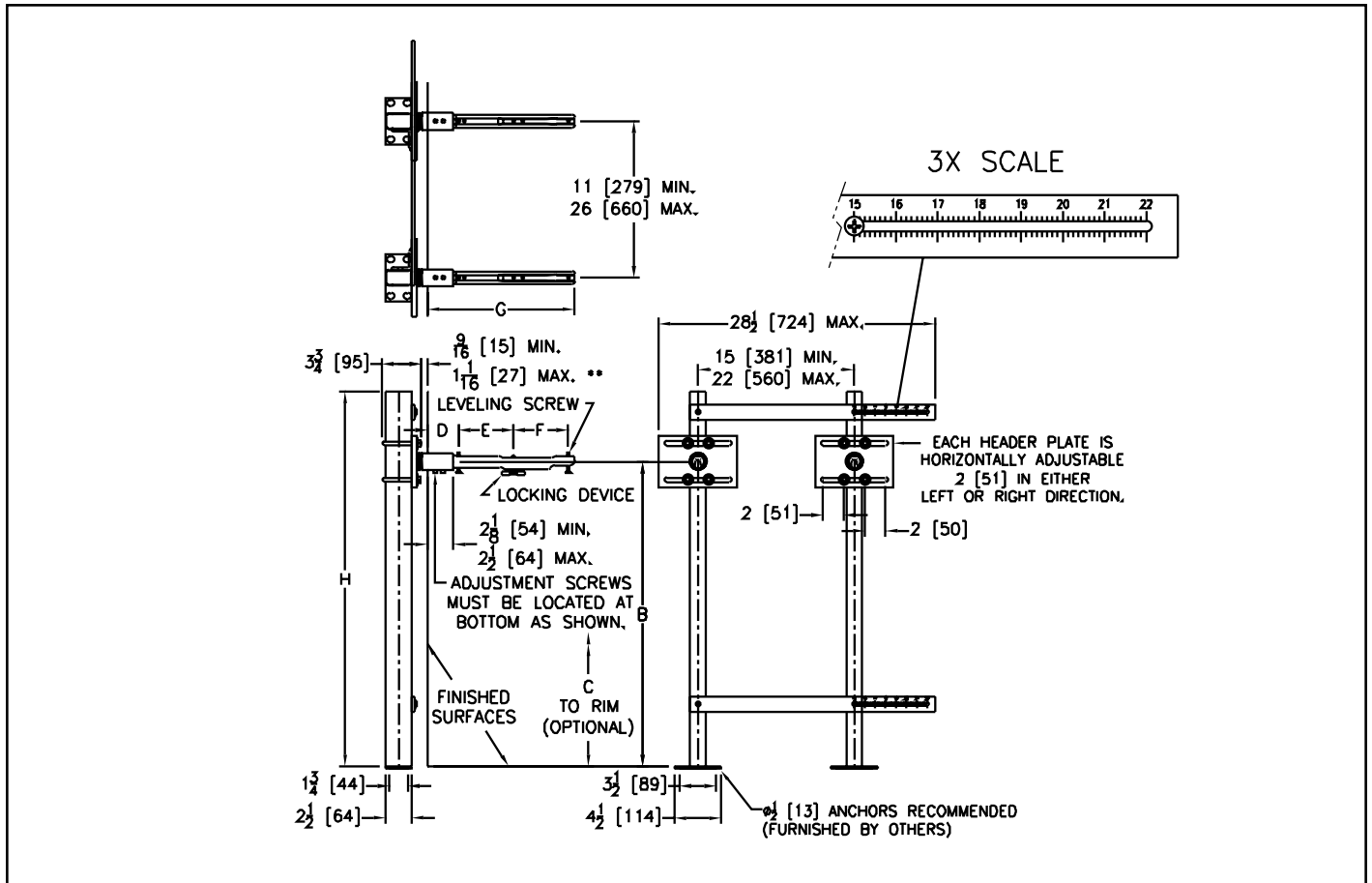
Installed in 2 x 4 stud wall, offers fixture support independent of wall. The system is lagged to the floor as shown. Standard hardware furnished for wall thickness (front of plate to finished wall) up to 4-3/4" and minimum space requirements for system are 3-3/8".



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).

Z1201 AND Z1202 EZCARRY™ HIGH PERFORMANCE WATER CLOSET CARRIER SYSTEM Closet Carrier Illustrations

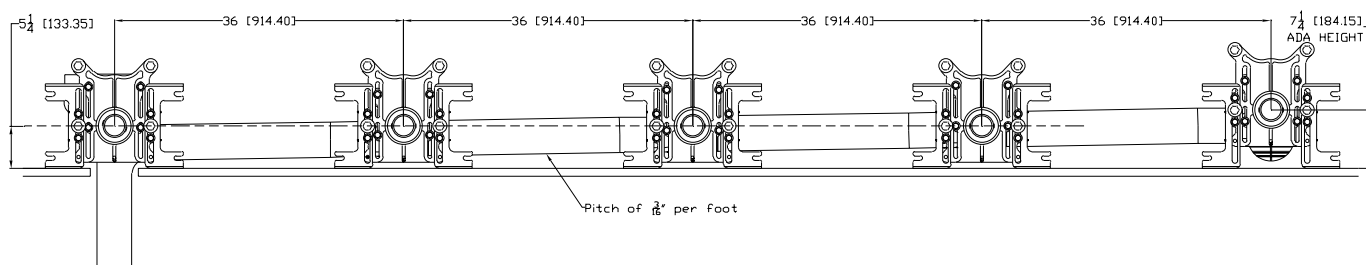
High Rough-In Requirements for Physically Handicapped Water Closet Bowls

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.

Adjustable Zurn Z1201 and Z1202 Systems



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

5-1/4" Centerline of Closet Outlet

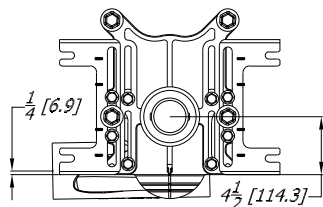
7-1/4" Centerline of Handicapped Closet Outlet (Will vary depending on fixture and flooring)

1/8" Pitch Per Foot

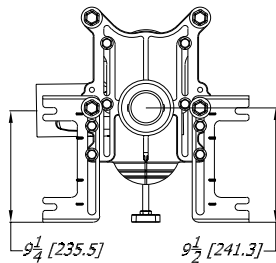
The handicapped fixture can be installed on any of the last three fixtures at the far right end of a battery.

Maximum Adjustment of Zurn Z1201 and Z1202 Systems

Lowest Fixture Outlet and Drain Line Position



Highest Fixture Outlet and Drain Line Position



C/L Fixture Outlet Height From Floor	Centerline Drain Line	Position From Floor
	Min.	Max.
4 1/2	2 5/16	4 1/8
4 3/4	2 5/16	4 3/8
5	2 5/16	4 5/8
5 1/2	2 5/16	5 1/8
6	2 5/16	5 5/8
6 1/2	2 5/16	6 1/8
7	2 5/8	6 5/8
7 1/2	3 1/8	7 1/8
8	3 5/8	7 5/8
8 1/2	4 1/8	8 1/8
9	4 5/8	8 5/8
9 1/2	5 1/8	9 1/8

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.

Z1203 AND Z1204 WATER CLOSET CARRIER SYSTEM Closet Carrier Illustrations

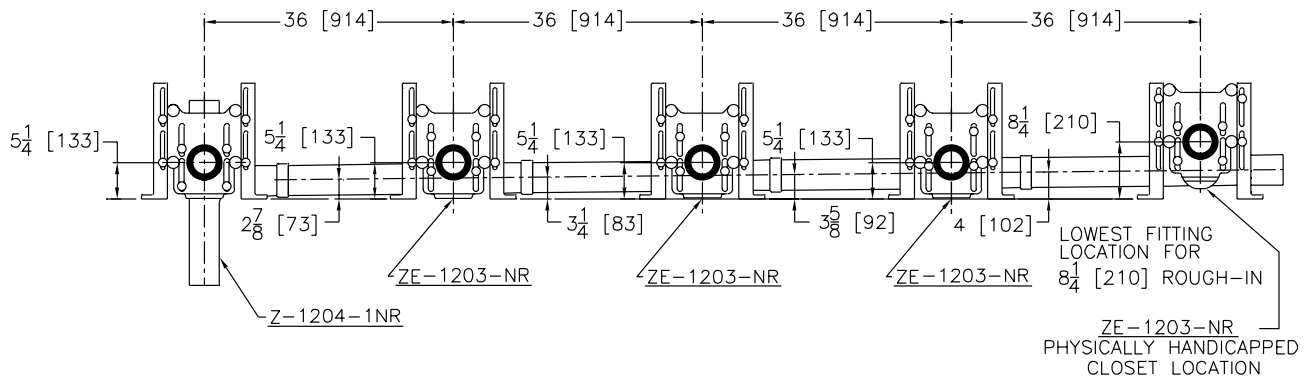
High Rough-In Requirements for Physically Handicapped Water Closet Bowls

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.

Adjustable Zurn 1203 Systems



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

5-1/4" Centerline of Closet Outlet

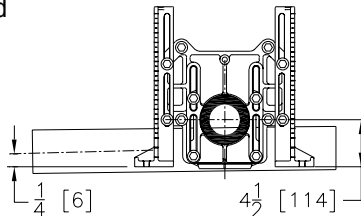
8-1/4" Centerline of Handicapped Closet Outlet (Will vary depending on fixture and flooring)

1/8" Pitch Per Foot

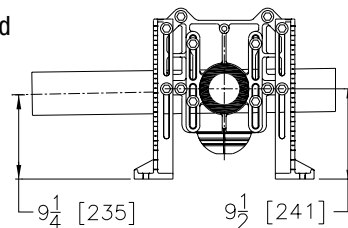
The handicapped fixture can be installed on any of the last three fixtures at the far right end of a battery.

Maximum Adjustment of Zurn Z1203 and Z1204 Systems

Lowest Fixture Outlet and Drain Line Position



Highest Fixture Outlet and Drain Line Position

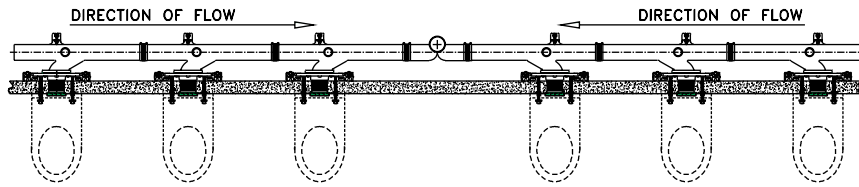


C/L Fixture Outlet Height From Floor	Centerline Drain Line Position From Floor	
	Min.	Max.
Dimensions In Inches		
4-1/2	1/4	4-1/4
4-3/4	1/2	4-1/2
5	3/4	4-3/4
5-1/2	1-1/4	5-1/4
6	1-3/4	5-3/4
6-1/2	2-1/4	6-1/4
7	2-3/4	6-3/4
7-1/2	3-1/4	7-1/4
8	3-3/4	7-3/4
8-1/4	4	8
8-1/2	4-1/4	8-1/4
8-3/4	4-1/2	8-1/2
9	4-3/4	8-3/4
9-1/2	5-1/4	9-1/4

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.

TECHNICAL DATA

DETERMINATION OF RIGHT- AND LEFT-HAND SYSTEMS



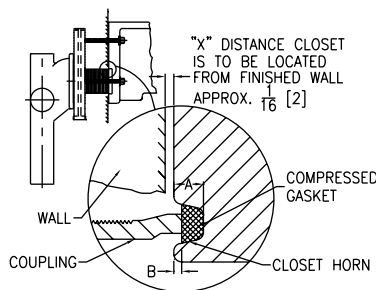
Left-Hand Zurn System

Right-Hand Zurn System

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.

DETERMINATION OF COUPLING AND FIXTURE DISTANCES FROM FRONT OF WALL

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.



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

Let A = depth of recess in closet
X = distance closet is to be located from finished wall
B = distance coupling should extend in front of finished wall.
Thus, $A + X - 1/2" = B$

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 $B = 3/8"$.

Z1201/Z1202/Z1203/Z1204				Z1208 thru ZE1209			
'P' Dimension*		Coupling Length	Stud Length	'P' Dimension*		Coupling Length	Stud Length
Min.	Max.			Min.	Max.		
1-3/4	2-3/4	2-3/4	6	1	1-7/8	2-3/4	6
2-1/2	3-1/2	3-1/2	8	1-1/2	2-5/8	3-1/2	8
3	4	4	8	2	3-1/8	4	8
4	5	5	8	3	4-1/8	5	8
5	6	6	9	4	5-1/8	6	9
6	7	7	10	5	6-1/8	7	9
7	8	8	11-1/4	6	7-1/8	8	11-1/4
7-1/2	8-1/2	8-1/2	11-1/4	6-1/2	7-5/8	8-1/2	11-1/4
8-1/4	9-1/4	9-1/4	12-3/4	7-1/4	8-3/8	9-1/4	12-3/4
9	10	10	12-3/4	8	9-1/8	10	12-3/4
10	11	11	15-3/4	9	10-1/8	11	15-3/4
11	12	12	15-3/4	10	11-1/8	12	15-3/4

DISTANCE FIXTURE BOLTS LOCATED IN FRONT OF WALL

To locate fixture bolts:

Let T = thickness of wall flange of closet

X = distance closet is to be located from finished wall

B = 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:

Z1201/Z1202/Z1203/Z1204	Z1208 thru Z1209
1-3/4"	1"

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:

Z1201/Z1202/Z1203/Z1204		Z1208 thru Z1209	
MIN.	MAX.	MIN.	MAX.
5"	6"	4"	5-1/8"

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.

Z1201 and Z1202 EZCarry™ High Performance Water Closet Carrier System INSTALLATION INSTRUCTIONS

For EZCarry™ Bank Assembly Installation Instructions refer to Zurn form #C46 which can be obtained through the Zurn website.

1. Lay carrier fitting on floor, waste line barrel down. See Fig. 1

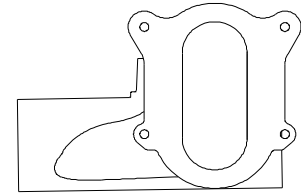


Fig. 1

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

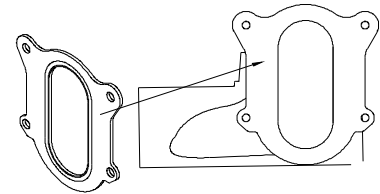


Fig. 2

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

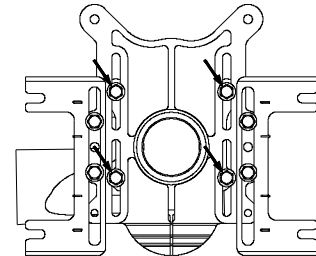


Fig. 3

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).

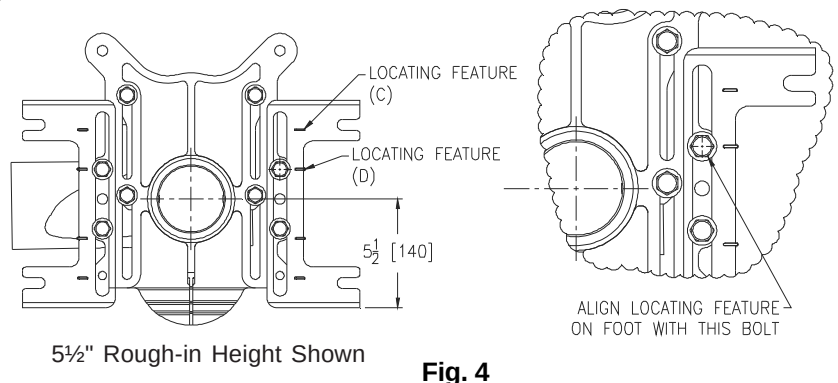


Fig. 4

Note: For certain rough-in heights, the bottom of the faceplate may need to be removed along the defined cut lines. See Fig 4b

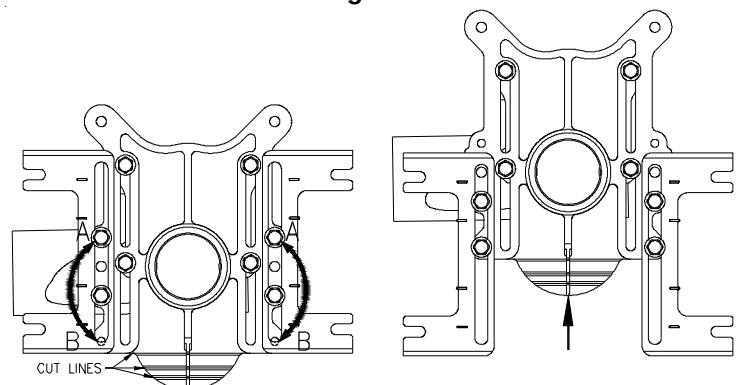


Fig. 4a

Fig. 4b

Z1201 and Z1202 EZ-Set™ Coupling INSTALLATION INSTRUCTIONS

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

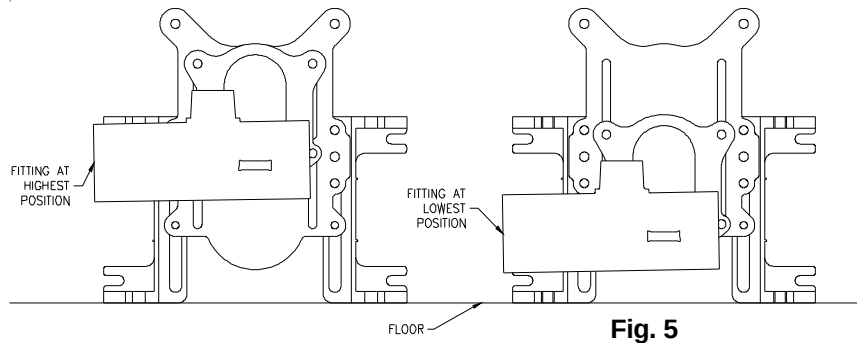


Fig. 5

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

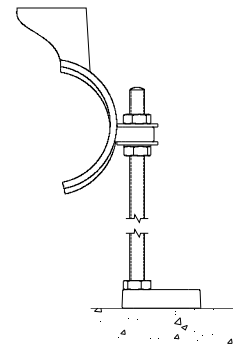


Fig. 6

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

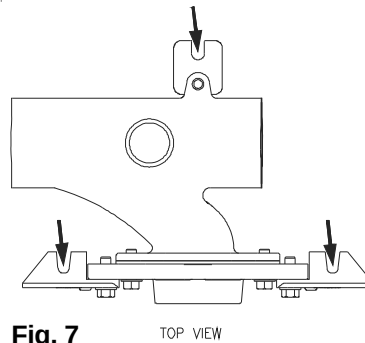


Fig. 7

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

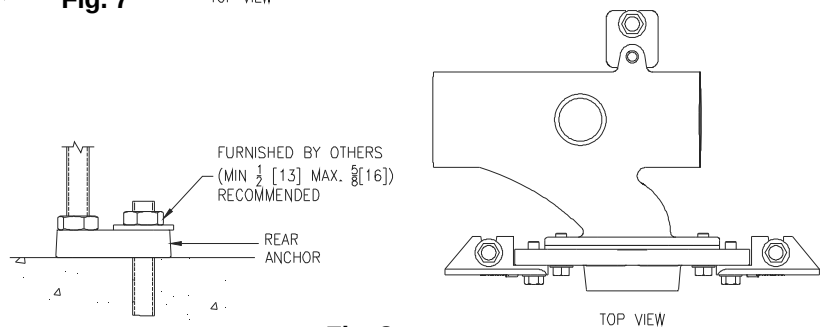


Fig. 8

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.

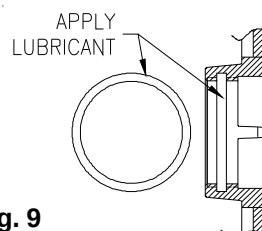


Fig. 9

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

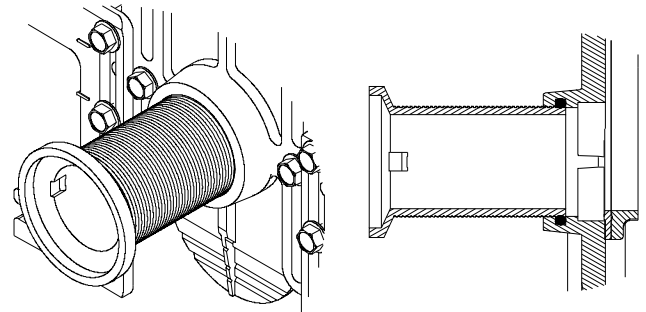


Fig. 10

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

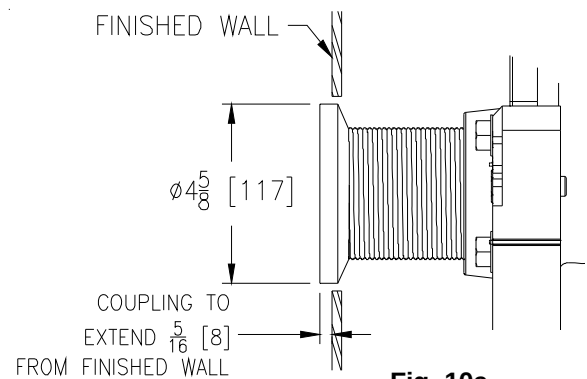


Fig. 10a

- 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

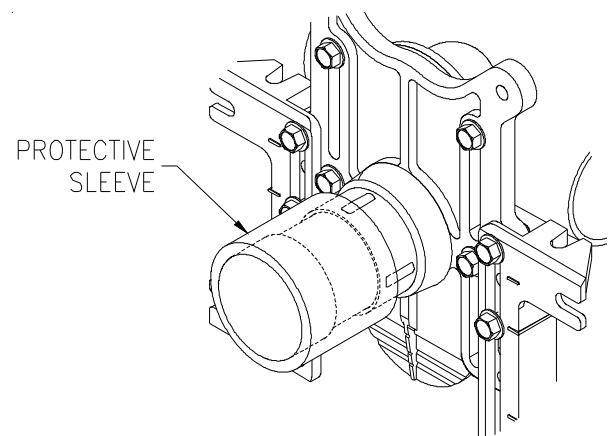


Fig. 10b

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.

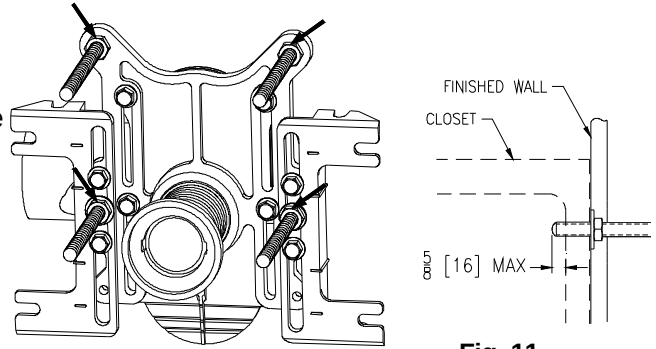


Fig. 11

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

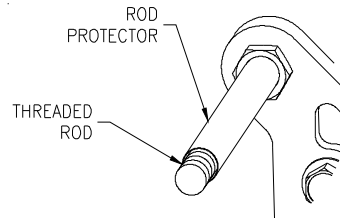


Fig. 12

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

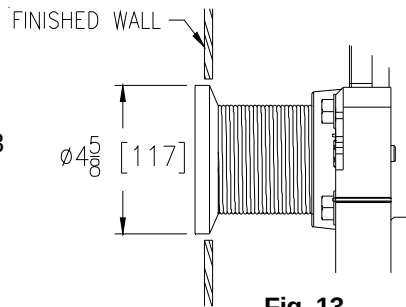


Fig. 13

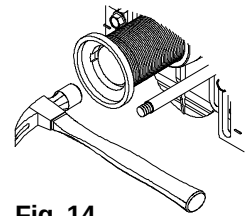
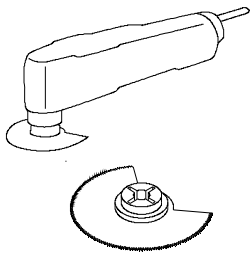


Fig. 14

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



Oscillating multi-tool
Fig. 16

- 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.

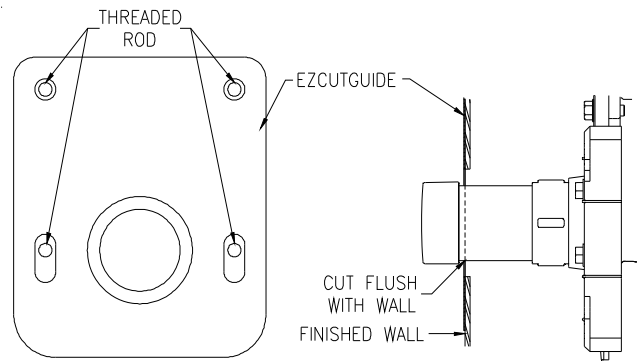


Fig. 15

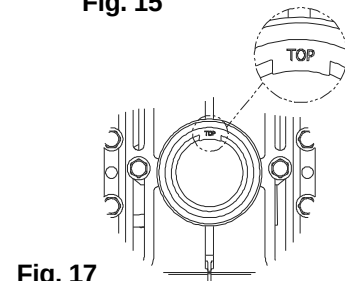


Fig. 17

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.

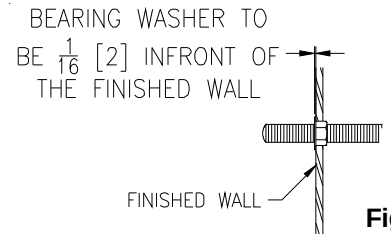


Fig. 18

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

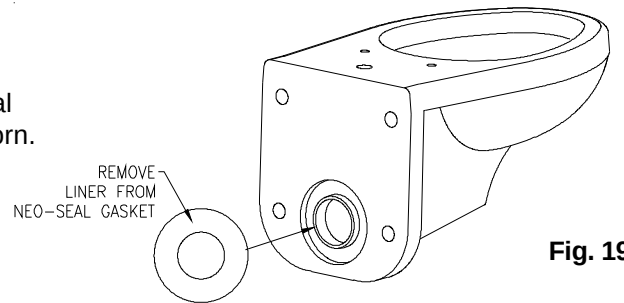


Fig. 19

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

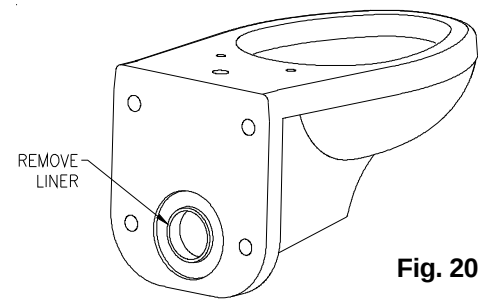


Fig. 20

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

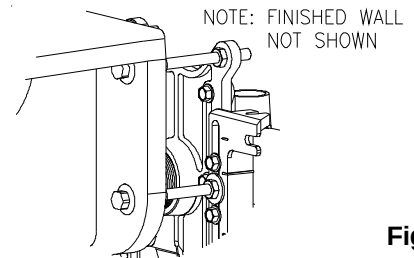
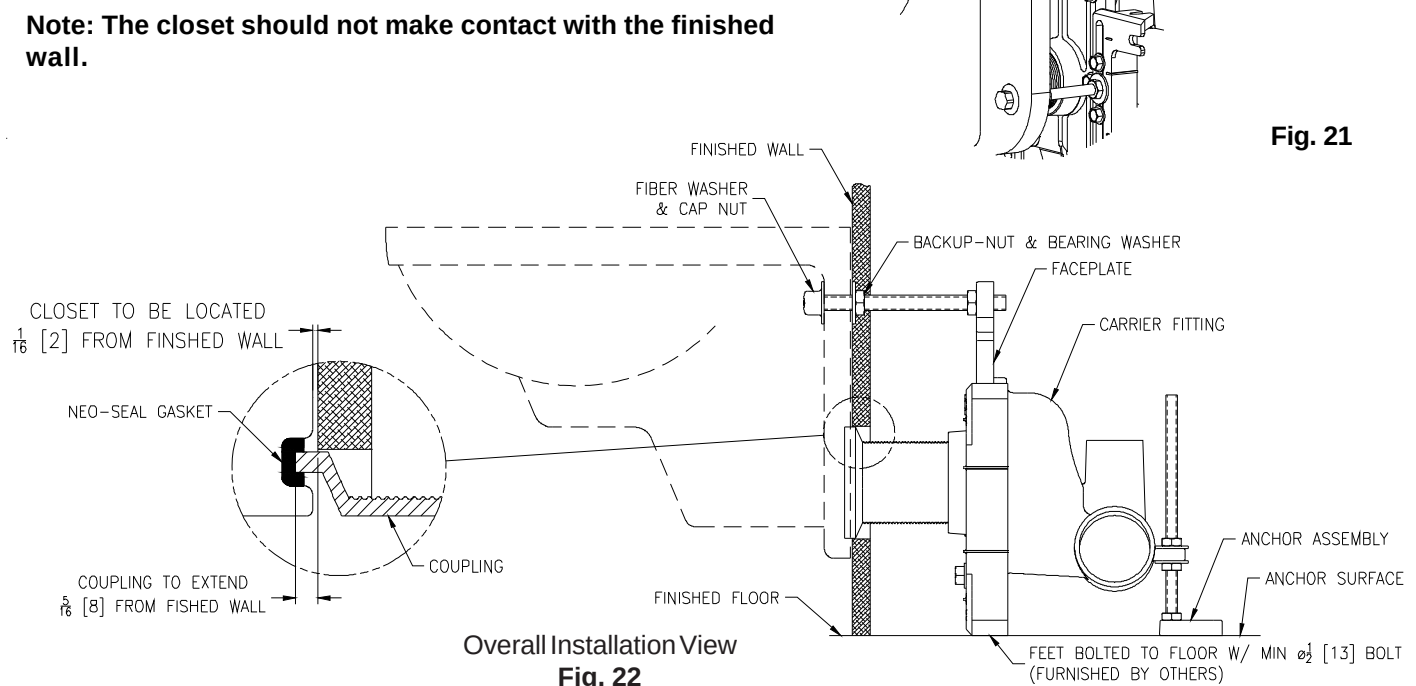


Fig. 21



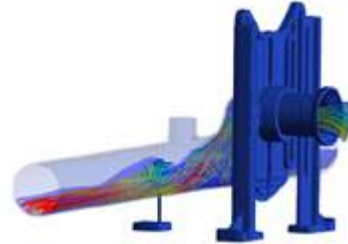
TECHNICAL DATA

EZCarry™ High Performance Carrier System Line Carry Testing

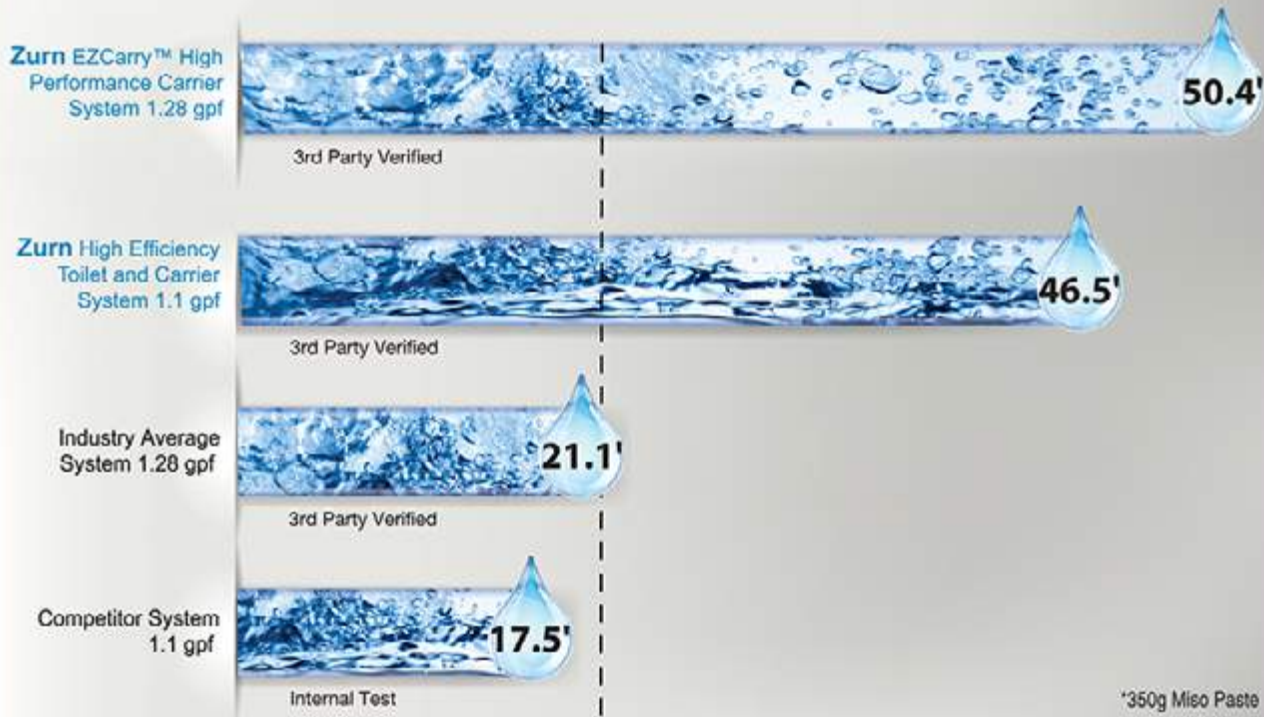
A modified MaPs Test was conducted using 350g of Miso paste with 1.28 GPF.

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.

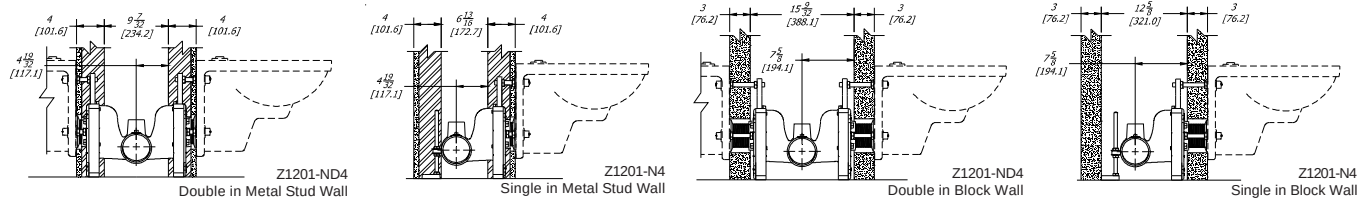


Modified Line Carry Testing*

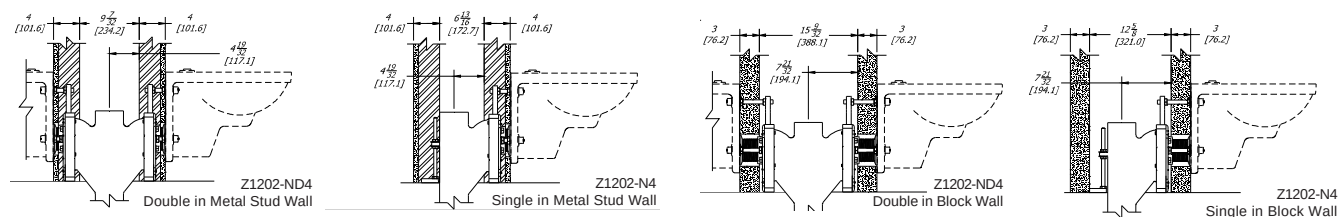


INSTALLATIONS

Horizontal Adjustable Carriers

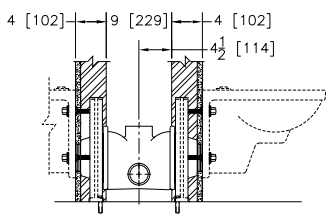


Vertical Adjustable Carriers

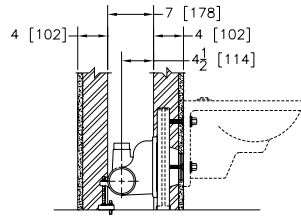


INSTALLATIONS

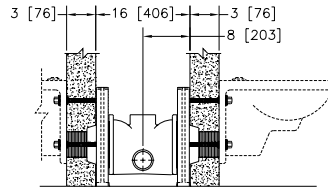
Horizontal Adjustable Carriers



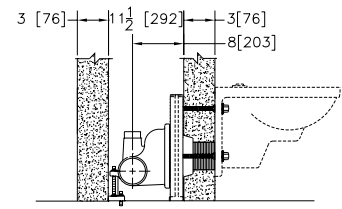
Z1203-ND4 DOUBLE IN METAL STUD WALL



Z1203-N4 SINGLE IN METAL STUD WALL

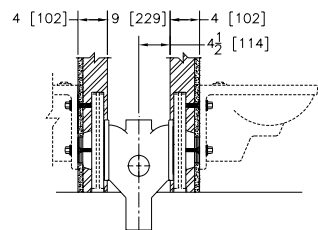


Z1203-ND4 DOUBLE IN BLOCK WALL

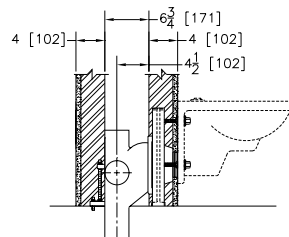


Z1203-N4 SINGLE IN BLOCK WALL

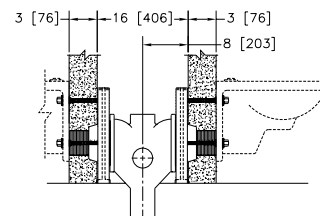
Vertical Adjustable Carriers



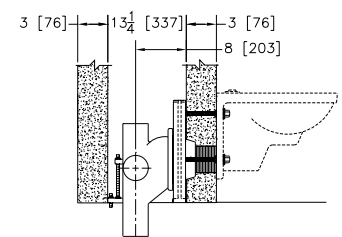
Z1204-ND4 DOUBLE IN METAL STUD WALL



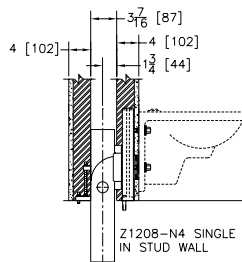
Z1204-N4 SINGLE IN METAL STUD WALL



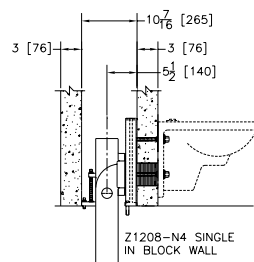
Z1204-ND4 DOUBLE IN BLOCK WALL



Z1204-N4 SINGLE IN BLOCK WALL



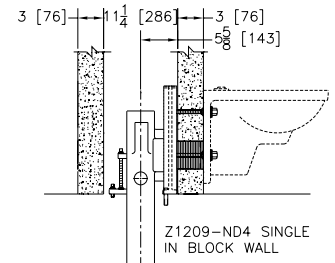
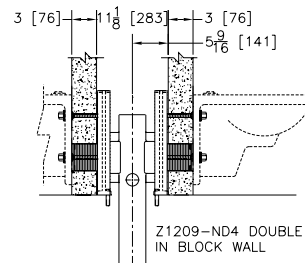
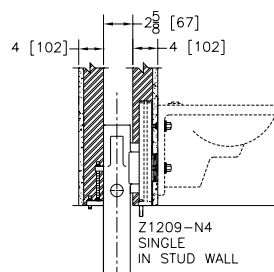
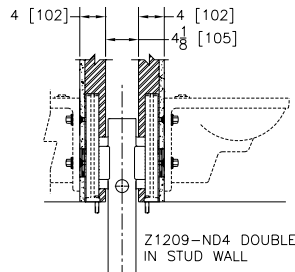
Z1208-N4 SINGLE IN STUD WALL



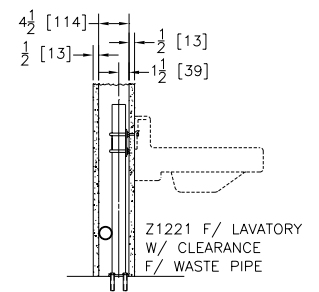
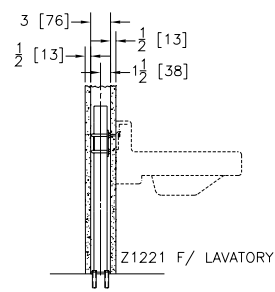
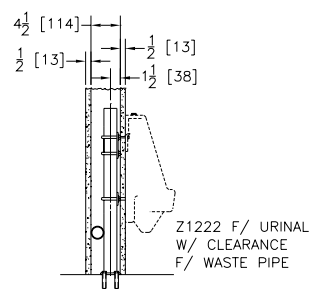
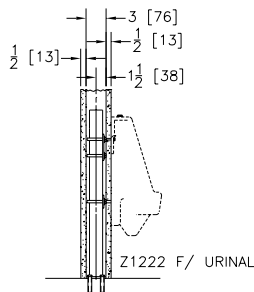
Z1208-N4 SINGLE IN BLOCK WALL

INSTALLATIONS

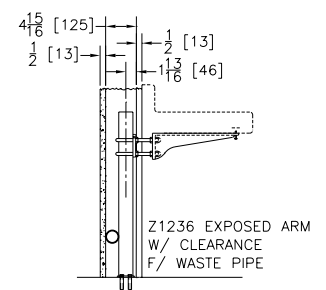
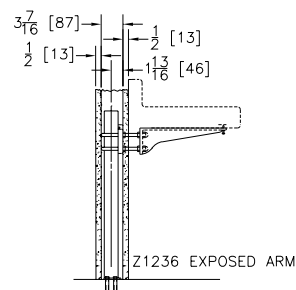
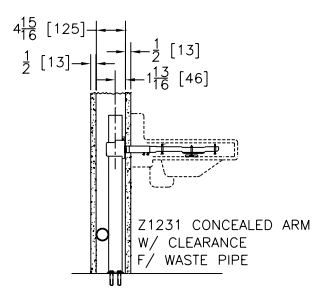
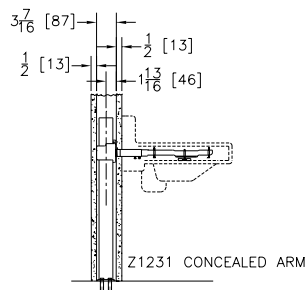
Vertical Fixed Carriers



Hanger Plate Carriers

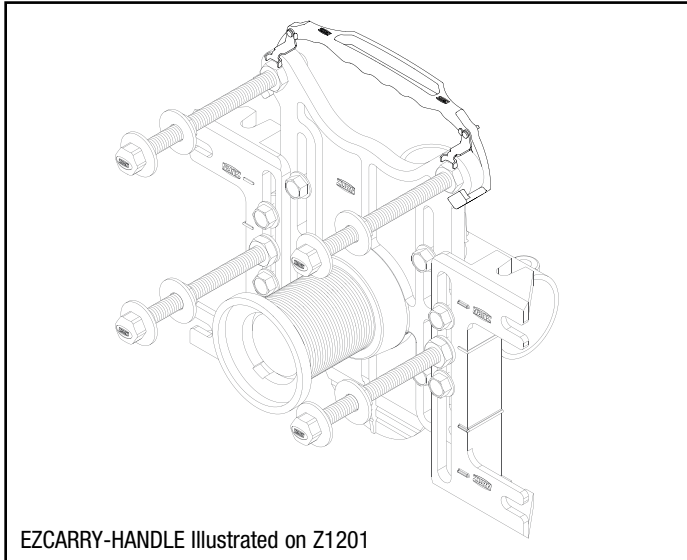


Arm Lavatory Carriers

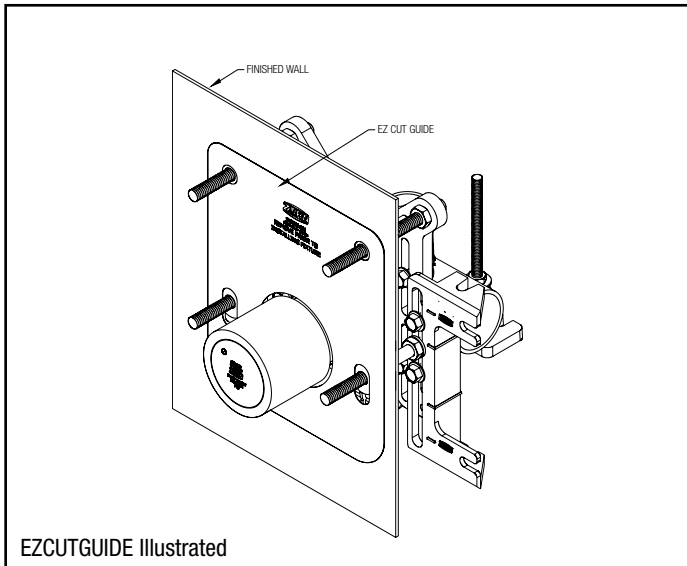


Z1200 CARRIER TOOLS AND ACCESSORIES

EZCARRY-HANDLE Carry Handle (Z1201 and Z1202)

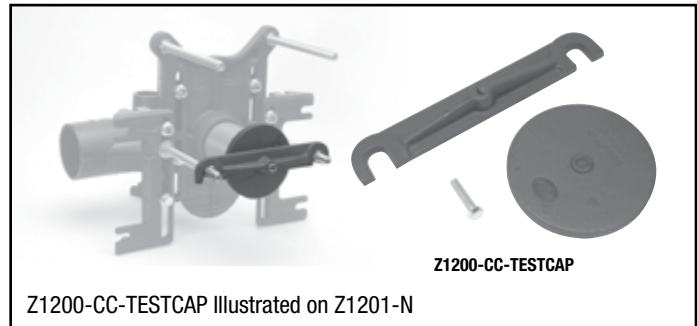


EZCUTGUIDE EZSet Cutting Guide for use with –CE Coupling System (Z1201 and Z1202)

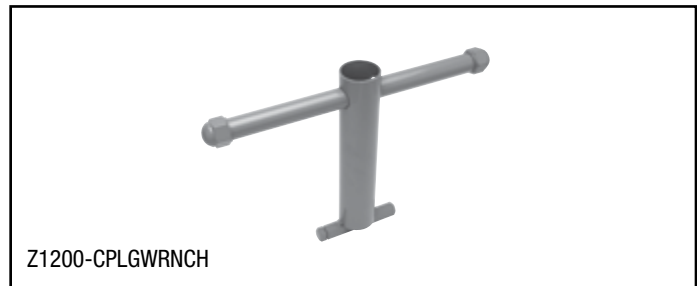


- Z1200-ADJ-NUT** Flush Wall Adjustment Nut/Washer
Z1200-AUX-SPRT Auxiliary Support Assembly (Required for P-Dim. 10" [254mm] - 18" [457mm])
Z1200-AUX-FT-SPRT Auxiliary Foot Support Assembly

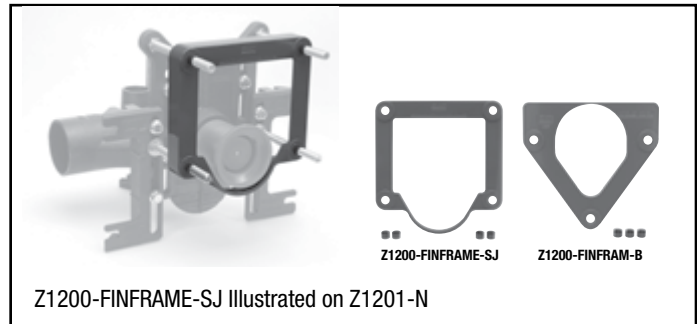
Z1200-CC-TESTCAP Mechanical Test Cap Assembly for –CC Coupling



- Z1200-CPLGWRNCH-3** Adjusting Wrench for 3" "ZZ" Coupling
Z1200-CPLGWRNCH-4 Adjusting Wrench for 4" "ZZ" Coupling



- 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)

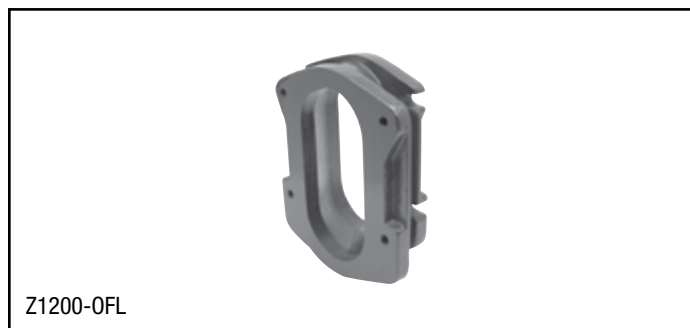


- Z1200-FLRMNT-ADPT** Adapter Flange Assembly for Floor Mounted Back Outlet Fixture
Z1200-FT-EXT-2 2" [51mm] Foot Extension Assembly
Z1200-FT-EXT-3 3" [76mm] Foot Extension Assembly
Z1200-FT-EXT-4 4" [102mm] Foot Extension Assembly
Z1200-NEOSEAL-GSKT-4 4" [102mm] Bonded "Neo-Seal" Closet Gasket Kit



Z1200 CARRIER TOOLS AND ACCESSORIES

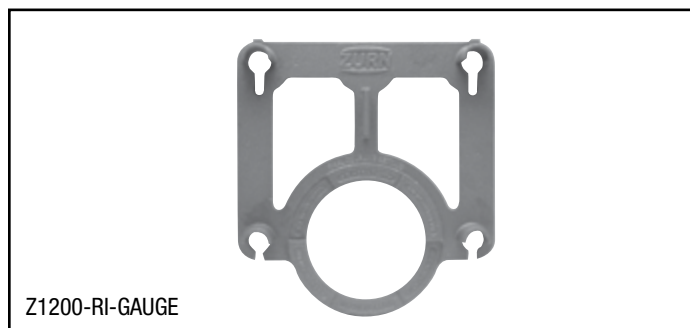
Z1200-OFL Offset Fitting-Left



Z1200-OFR Offset Fitting-Right

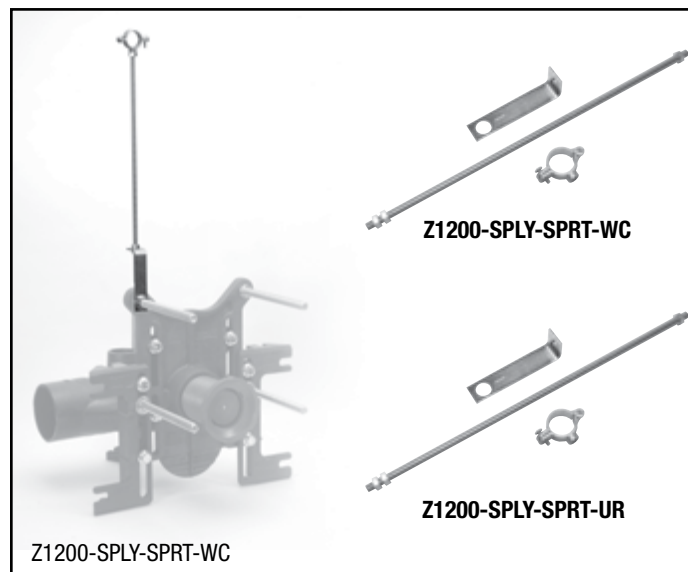


Z1200-RI-GAUGE Water Closet Rough-In Gauge

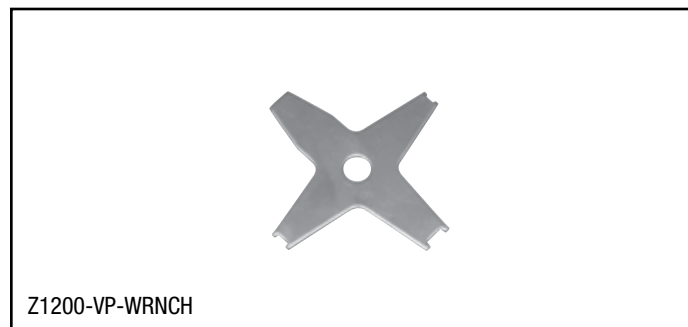


Z1200-RTRTFT-NUT Retro-Fit Cap Nut
Z1200-SPLY-SPRT-UR Flush Valve Supply Support for Urinals

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"

MATERIALS and FINISHES

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

Metal	Cast Iron	Ductile Iron
Specification	Class 25	60-45-10
Tensile Strength (PSI)	25/30,000	60/80,000
Yield Strength (PSI)	NIL	45/60,000
Elongation	NIL	10% to 25%
Modules of Elasticity	16 x 10	24 x 10

Zurn Bronze 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



Paired performance. Better together.

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*

Zurn EZCarry™ High Performance Carrier System 1.28 gpf

3rd Party Verified

50.4'

Zurn High Efficiency Toilet and Carrier System 1.1 gpf

3rd Party Verified

46.5'

Industry Average System 1.28 gpf

3rd Party Verified

21.1'

Competitor System 1.1 gpf

Internal Test

17.5'

*350g Miso Paste

— — — Industry Average

Website: www.zurn.com/hetc

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