MATERIALS

Cast Iron: Conforms to ASTM specification for Gray Iron Castings A-48-83, Class 20 or 25. It is a relatively high silicon iron with a high degree of strength and corrosion resistance.

Ductile Iron: Conforms to ASTM specification A 536-84 Grade 60-45-10. This nodular iron material has corrosion resistance superior to that of gray iron and exhibits remarkable stress qualities with yield factors in the same range as cast carbon steel and also maintaining the ability to absorb shock loading. This material is excellent where heavy duty service is a requirement.

Properties of Ductile Iron Versus Cast Iron

Material	Cast Iron	Ductile Iron
Specification	Class 25	60-45-10
Tensile Strength (PSI)	20/30,000	60/80,000
Yield Strength	NIL	45/60,000
Elongation	NIL	10% to 25%
Modules of Elasticity	16 x 10	24 x 10

Aluminum: Castings are Grade 319, which is an alloy containing both silicon and copper. It is a solid cast material with a light gray appearance. The light weight coupled with its exceptional strength and corrosion resistance, makes Wade aluminum castings ideal for drain components such as sediment buckets and strainers.

Bronze: This is a semi-red brass conforming to ASTM Specification for Copper Alloy Sand Casting, Ingot No.84400 or 83600. Exposed surfaces for products designated Satin Bronze are furnished with a sheen texture which allows it to blend unobtrusively with surrounding finishes. When required, this material can be furnished polished to a high gloss.

Nickel Bronze: This unique material is ideally suited for high traffic finished floor areas. It offers higher strength, better appearance and longer service life than chrome plating. The material is a copper nickel alloy 97300 or 97600. The appearance is similar to satin chrome plating, but will not chip, crack or peel off. It is highly resistant to corrosion; A slight oxidization will naturally occur over time.

Stainless Steel: For castings, Wade typically uses Type CF8 (304) which is an 18-8 Austenitic Stainless providing excellent corrosion resistance. For some applications, CF8M (316) stainless steel can be supplied when specified. For fabricated stainless steel products, Type 304 is normally provided with Type 316 as an optional material.

Neoprene: Most Wade gaskets are made of neoprene in conformance to ASTM A74. The physical characeristics of neoprene ensure that the gasket will not decay or deteriorate from contact with effluents in the pipe or chemicals in the soil or the atmosphere.

Physical Properties				
Property	Performance Requirement			ASTM Test
Hardness (Nominal Hardness +/-5)	50	60	70	D2240
Elongation (Minimum) %t	350	300	250	D412
Tensile Strength (Minimum) Lbf/In.	1500	1500	1500	D412
Tear Resistance (Minimum) Lbf/In.	150	150	150	D624
Compression Set (Minimum) %	25	25	24	D395
Heat Aging (96 Hours at 158 Degrees F +/- 2 Degrees F)				
Hardness Increase (Maximum) Durometer	10	10	10	D573
Loss in Tensile Strength (Maximum) %	15	15	15	D573
Loss in Elongation (Maximum) %	20	20	20	D573
Water Absorption (Weight Incerase Max.) %	20	20	20	D471
Ozone Resistance				
Cracks	0	0	0	D1149
Volume Increase (Maximum) %	80	80	80	D471
Resistance To Permanant Set				
Compression Set After 22 Hrs. at 158F (%)	25	25	25	D395
Compression Set After 22 Hrs. at 14F (%)	60	60	60	D395

FINISHES

Wade CI/DI Coatings: Cast iron and ductile iron coatings are normally furnished with a specially formulated latex coating designed to resist cracking and chipping plus offer a high resistance to rusting.

A.R. Acid Resistant Coating: is a common baked-on powder coating which produces a smooth, hard, high gloss finish. The epoxy based coating offers high impact resistance and excellent life in drainage applications. Wade A.R. coating conforms to the requirements of FDA regulation 21-CFR5 117.1360.

A.R.C. Acid Resistant Coating from Wade is typically furnished in a high build aliphatic hybrid – trade named ArmorClad. It is an industrial abrasion - chemical - impact - moisture—UV resistant sanitary finish engineered for use on critical surfaces in harsh environments. A two component no-voc formulation delivers optimal performance in very cold or hot climates. ArmorClad is dielectric (non-conductive) so there is no potential reaction with the earth's elements. Because of its's dielectric properties, performance is exceptional in all forms of corrosive elements that may be present in underground environments. Because it is non-sacrificial, the finish insulates metallic products from corrosive elements including salt spray. A 100% solids characteristic helps to ensure a complete barrier is formed for protection. The aliphatic hybrid content of ArmorClad provides UV resistance well beyond what aromatic coatings can offer. Accelerated UV Aging test over extended time are ongoing to qualify the significant improvements. Available in Gray.

A.R.E. (Porcelain): Acid resisting Porcelain Enamel is a substantially vitreous or glassy inorganic coating bonded to metal by fusion at temperatures in excess of 800ºF. This exclusive coating is normally supplied on floor sinks. A.R.E. porcelain is extremely hard, offers unmatched sanitation properties and is acid, abrasion and wear resistant. Conforms to F.D.A (Food and Drug Administration) Regulation 21-CFR5 117.1360.

Chrome Plating: Chrome plating is more reflective (brighter), bluer (less pale), and more spectacular than other finishes. Chrome is applied by electroplating. Our process is decorative chrome plating, sometimes called nickel-chrome plating because it involves electroplating nickel onto the object before plating the chrome. The nickel plating provides the smoothness, much of the corrosion resistance, and most of the reflectivity. The chrome plating is exceptionally thin and the product surfaces are highly polished before the electroplating is applied. This finish is not recommended for areas subjected to traffic because abrasion will eventually wear through and cause peeling. It should always be specified for swimming pool applications for resistance to chemicals encountered in the pool maintenance.

E.C. (Epoxy Coating): High performance solvent based, high solids polyamine epoxy. This coating offers exceptional chemical and abrasion resistance for long term performance in aggressive environments. Normally furnished in a high gloss gray finish.

Galvanized: This is a process of applying a heavy zinc coating to a thoroughly cleaned cast iron or ductile iron casting. This coating contains 95% zinc in a thermal process and is recommended wherever discoloration caused by oxidation of cast iron is objectionable, or in costal or industrial areas where corrosive atmospheres are present. This coating meets or exceeds Federal specification MIL-P-21035, MIL-P-26915A, MIL-P-26433 and MIL-C-10578 (Type II). It also meets ASTM specification A239-89.

GENERAL TERMS & CONDITIONS

ENTIRE AGREEMENT. McWane, Inc. and its divisions and subsidiaries (the "Seller") agrees to sell the goods covered herein ("Goods") to Buyer on the following terms and conditions of sale (the "Terms and Conditions") which supersede any other or inconsistent terms of Buyer. The Terms and Conditions and the order or other contract documents to which they are attached constitute the entire agreement between the parties with respect to the Goods (the "Agreement"). All references by Seller to Buyer's specifications and similar requirements are only to describe the Goods and work covered hereby and no warranties or other terms will have any force or effect. Neither this Agreement, nor any modification, amendment or waiver to it, nor any cancellation, change or return of any order under it, will be binding on Seller until agreed in writing by Seller's authorized representative. No representation, promise or term not set forth herein has been or may be relied upon by Buyer, and any terms not contained in this Agreement are expressly objected to and rejected. Acceptance of orders, whether oral or written, and/or delivery by Buyer is based on the express condition that Buyer agrees to all of these Terms and Conditions.

QUOTATIONS. Where this Agreement is used by Seller to place a bid, the quotation stated herein is for prompt acceptance and Seller may change and/or withdraw without notice. Prompt acceptance by Buyer of all quotations is a material term of the bid and any subsequent agreement. In cases where freight allowance is included in the quotation, Buyer is liable for any rate increase and/or additional expense over the calculated allowance resulting from compliance with Buyer's shipping instructions.

DELIVERY. All prices are EXW (Ex-Works)(per Incoterms 2010), unless otherwise specified by Seller in writing. All shipping dates are approximate, and any time period indicated for a shipment will not commence until receipt at Seller's plant of complete manufacturing, shipping, and credit information. Acceptance of shipment by designated shipper, allocation of Goods to Buyer at premises other than Seller's, delivery to Buyer's representative or designee or mailing of an invoice to Buyer, whichever first occurs, will constitute tender of delivery and title will pass to Buyer, subject to Seller's right of stoppage in transit and to any interest of Seller reserved to secure Buyer's payment or performance, irrespective of any freight allowance or prepayment of freight. In the case of Goods held subject to Buyer's instructions, Goods for which Buyer has failed to supply shipping instructions, or in any case where Seller, in its sole discretion, determines that any part of the Goods should be held for Buyer's account, Seller may invoice for the Goods and Buyer agrees to make payment at the maturity of the invoice rendered. Goods invoiced and held at any location for whatever reason will be at Buyer's risk and Seller may charge for (but is not obligated to carry) insurance, storage and other expenses incident to such delay at their prevailing rates. Partial deliveries shall be accepted by Buyer and paid for at Agreement prices and terms. When Buyer has declared or manifested an intention not to accept delivery, no tender shall be necessary but Seller may, at its option, give notice in writing to Buyer that Seller is ready and willing to deliver and such notice shall constitute a valid tender of delivery. Buyer must report any shortages in shipments within three (3) days of receipt of the initial shipment.

LOSS OR DAMAGE IN TRANSIT. Buyer may not make any deduction from any payment due hereunder by reason of loss or damage to Goods in transit. Upon Buyer's written request, Seller, in its sole discretion, may agree as a service to Buyer to process Buyer's claim against the carrier for any loss or damage in transit, provided that Seller receives such claim within five (5) days of the delivery of the Goods. Any such claims must be accompanied by a delivery receipt, signed by carrier's agent at time of delivery, on which receipt the loss or damage has been noted, or such claims will be waived.

TERMS OF PAYMENT. Terms are stated on Seller's order or invoice document. Seller may make partial shipments and payment for that portion shall be due as provided on Seller's order or invoice document based on time of shipment. If, at any time or for any reason, Seller has cause to question Buyer's ability to perform, Seller may demand such assurances of Buyer's performance as Seller deems necessary in its discretion, including payment in advance for all shipments. If Buyer fails within ten (10) days of Seller's demand to provide Seller with such assurance, Seller may suspend its performance, cancel any order then outstanding, receive reimbursement for its reasonable and proper cancellation charges and collect, without limitation, any sums due and owing, its reasonable cancellation charges and all damages resulting from Buyer's default. In the event of Buyer's bankruptcy or insolvency, or in the event of any proceeding brought against Buyer, voluntarily or involuntarily, under bankruptcy or any insolvency laws, Seller may cancel any order then outstanding at any time and receive reimbursement for its reasonable and proper cancellation charges. If Buyer fails to make payment for Goods when due, Buyer's account will be deemed delinquent and Buyer will be liable to Seller for a service charge of eighteen percent (18%) per annum or the maximum allowed by law, whichever is greater, on any unpaid amount; provided that, in addition to the foregoing, Seller may also suspend its performance, cancel any order then outstanding, receive reimbursement for its reasonable and proper cancellation charges and to collect, without limitation, any sums due and owing, its reasonable cancellation charges and all damages resulting from Buyer's default. Buyer will be liable to Seller for all costs and expenses of collection, including court costs and reasonable attorneys' fees.

CANCELLATION, CHANGES AND RETURNS. In the event of a proper cancellation, change or return request from Buyer under this Agreement, Seller may, at its option: (A) charge Buyer for any costs Seller incurred prior to or as a result of such cancellation, change or return; (B) revise its prices and delivery dates to reflect such change; and/or (C) accept returned Goods for credit if, in Seller's sole discretion, it finds such Goods to be standard stock and in good condition. The credit will be, in Seller's sole discretion, either the invoice price less a percentage to be determined by the Seller or the scrap value of the Goods, along with shipping and handling charges to be determined by Seller. All returned Goods must be securely packed by Buyer to ensure that the returned material is not damaged during shipment.

DELAY IN OR PREVENTION OF PERFORMANCE. Seller will not be liable for any expense, loss or damage resulting from delay in delivery or prevention of performance caused by any event beyond Seller's reasonable control ("Force Majeure"), including without limitation: fire; flood; storm; act of God; strike, labor dispute or labor shortage; lack of or inability to obtain materials, fuels, supplies or equipment; civil unrest or riot; accident; transportation delay or shortage; act or failure to act of any government or of Buyer; or any other cause whatsoever, provided that such cause is beyond Seller's reasonable control. Seller will have such additional time for performance as may be reasonably necessary under the circumstances and may adjust the price to reflect increases occasioned by Force Majeure. Buyer's acceptance of any Goods will constitute Buyer's waiver of any claim for damages on account of any delay in delivery of such Goods. If delivery is delayed or interrupted by Force Majeure, Seller may store the Goods at Buyer's expense and risk and charge Buyer a reasonable storage rate. If Seller is delayed because it is awaiting Buyer's approval or acceptance of designs, drawings, prints, engineering or technical data, or is awaiting Buyer's approval or acceptance of Goods, Seller will be entitled to an adjustment in price commensurate with any increase in its cost of production and any other losses and expenses incurred by Seller attributable to such delays.

DEFERRED DELIVERY. If Buyer requests a deferred delivery and Seller approves in writing, Seller may charge Buyer for the completed portion of this Agreement and warehouse all completed Goods at Buyer's expense and risk of loss. As to any uncompleted portion of this Agreement, Seller may, at its option, cancel said uncompleted portion in accordance with Paragraph 6 above or revise its prices and delivery schedules on the portion not completed to reflect its increased costs and expenses attributable to the delay.

WARRANTY AND BUYER'S REMEDIES. Seller warrants that the Goods will be of the kind described in this Agreement and free from defects in material and workmanship under conditions of normal use. Seller reserves the right to make any modifications required by production conditions to the information set forth in Seller's catalogues and advertising literature. Seller will not be liable or responsible, however, for (A) any defects attributed to normal wear and tear, erosion or corrosion, improper storage, use or maintenance or use of the Goods with incompatible products, or (B) defects in any portion or part of the Goods manufactured by others. If (B) above is applicable, Seller will, as an accommodation to Buyer, assign to Buyer any warranties given to it by any such other manufacturers; provided, however, that the foregoing will not extend Seller's warranty to any accessory products unless otherwise agreed to in writing by Seller. All warranties provided herein are void if the Goods are modified or used in conjunction with products or accessories not manufactured or approved by Seller or which are incompatible with the Goods. Any claim by Buyer with reference to the Goods for any cause will be deemed waived by Buyer unless submitted to Seller in writing within ten (10) days from the date Buyer discovered, or should have discovered, any claimed breach. Buyer will give Seller an opportunity to investigate. Provided that Seller is furnished prompt notice by Buyer of any defect and an opportunity to inspect the alleged defect as provided herein, Seller will, at its option and in its sole discretion either: (i) repair the defective or non-conforming Goods; (ii) replace the nonconforming Goods, or part thereof, which are sent to Seller by Buyer within sixty (60) days after receipt of the Goods at Buyer's plant or storage facilities; or (iii) if Seller is unable or chooses not to repair or replace, return the purchase price that has been paid and cancel any obligation to pay unpaid portions of the purchase price of nonconforming Goods. In no event will any obligation to pay or refund exceed the purchase price actually paid. Repair and/or replacement as provided above will be shipped EXW (Ex- Works) (per Incoterms 2010) unless otherwise agreed in writing by Seller. Buyer will prepay all transportation charges for the return of the Goods or part thereof to Seller, unless otherwise agreed in writing by Seller. Seller will not be responsible for any labor, removal or installation charges that may result from the above-described repair and/or replacement of any Goods. This warranty does not cover failure of any part or parts manufactured by others, failure of any part or parts from external forces, including without limitation corrosive soils, earthquake, installation, vandalism, vehicular or other impact, application of excessive torque to the operating mechanism, frost heave or other Force Majeure. Buyer's exclusive remedy and Seller's sole liability for any loss, damage, injury or expense of any kind arising from the manufacture, delivery, sale, installation, use or shipment of the Goods and whether based on contract, warranty, tort or any other basis of recovery whatsoever, will be, at Seller's election, the remedies described above. The foregoing is intended as a complete allocation of risks between the parties and Buyer understands that it will not be able to recover consequential damages even though it may suffer such damages in substantial amounts. Because this Agreement and the price paid reflect such allocation, this limitation will not have failed of its essential purpose even if it operates to bar recovery for such consequential damages.

PATENTS. If any claim is made against Buyer based on a claim that any of the Goods constitute an infringement of any U.S. Letter Patent, Buyer will notify Seller immediately. Seller may, with Buyer's assistance, if required, but at Seller's expense, conduct settlement negotiations or the defense of any litigation. If any of the Goods are held to infringe any U.S. Letter Patent, and their use is enjoined or, if as a result of a settlement, Seller deems their continued use unadvisable and provided that Buyer has given Seller the immediate notice required above and has used the Goods only in accordance with the provisions of this Agreement and has not altered or changed them in any material way, Seller will, at its option and expense, procure for Buyer the right to continue using the Goods, modify the Goods so that they become non-infringing, replace the Goods with non-infringing Goods of substantially equal quality, or replace the Goods and refund the purchase price, less reasonable depreciation. The foregoing states Seller's entire liability for patent infringement.

LIMITATION OF LIABILITY. THE WARRANTIES IN PARAGRAPHS 9 AND 10 ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES WHETHER EXPRESS OR IMPLIED BY LAW OR STATUTE OR ARISING FROM TRADE USAGE OR COURSE OF DEALING. THERE IS NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT, WHETHER AS A RESULT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE) OR STRICT LIABILITY, WILL SELLER BE LIABLE FOR ANY PUNITIVE, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING WITHOUT LIMITATION LOSS OF PROFIT, LOSS OF USE OF THE GOODS OR OTHER PROPERTY OR EQUIPMENT, DAMAGE TO OTHER PROPERTY, COST OF CAPITAL, COST OF SUBSTITUTE GOODS, DOWNTIME, OR THE CLAIMS OF BUYER'S CUSTOMERS FOR ANY OF THE AFORESAID DAMAGES. SELLER WILL NOT BE LIABLE AND BUYER AGREES TO INDEMNIFY SELLER FOR ALL PERSONAL INJURY, PROPERTY DAMAGE OR OTHER LIABILITY RESULTING IN WHOLE OR IN PART FROM BUYER'S NEGLIGENCE. NO CLAIMS OF ANY NATURE, WHETHER BASED ON CONTRACT, TORT, STRICT LIABILITY OR OTHERWISE MAY BE BROUGHT AGAINST SELLER MORE THAN TWENTY-FOUR (24) MONTHS AFTER DELIVERY OF THE GOODS TO BUYER. In any contract by Buyer for resale of Goods Buyer will effectively disclaim, as against Seller, any implied warranty of merchantability and all liability for property damage or personal injury resulting from handling, possession or use of Goods, and shall exclude, as against Seller, any liability for special or consequential damages.

CONTROLLING LAW AND CONSENT TO VENUE. This Agreement and all rights and obligations hereunder will be governed by, and construed in accordance with, the laws of the State of Alabama, U.S.A., without regard to its conflicts of laws provisions. The United Nations Convention on Contracts for the International Sale of Goods shall not apply to this Agreement. Except when the dispute is arbitrated, the parties irrevocably agree that the exclusive venue for all disputes between the parties will be the state and federal courts of Alabama, U.S.A., to which jurisdiction Buyer hereby irrevocably submits. Buyer waives any objection or defense that Buyer is not personally subject to jurisdiction of the state and federal courts of Alabama, U.S.A.; that the venue of the action is improper; and that the action, suit or proceeding is brought in an inconvenient forum. In addition to any other mode of service of process authorized by law, Buyer consents to service of process by registered or certified mail.

COMPLIANCE WITH LAWS. Buyer represents and warrants, in connection with the transactions contemplated by this Agreement, and any other agreement contemplated by or entered into pursuant to this Agreement, that Buyer will comply with all governmental laws, regulations and orders that may be applicable to Buyer, including without limitation all laws and regulations regarding export controls, economic sanctions and trade embargoes, anti-boycott restrictions, anti-money laundering laws and anti-corruption laws, including but not limited to the U.S. Foreign Corrupt Practices Act (as amended) and the United Kingdom Bribery laws (collectively, the "Applicable International Trade and Anti- Corruption Laws"). Buyer will comply with all applicable Equal Opportunity requirements including those set forth in Executive Order 11246 and the Vietnam Era Veterans Readjustment Assistance Act of 1974, and regulations promulgated thereunder, the full version of which is found on Attachment A to this Agreement and incorporated herein by this reference. Buyer acknowledges and confirms that it and its officers, directors, employees, agents, contractors, designees and/or any other party acting on its behalf (collectively "Related Parties") are familiar with the provisions of the Applicable International Trade and Anti-Corruption Laws. Buyer agrees to indemnify, defend and hold harmless Seller and its employees from and against any and all claims, demands, costs, penalties and fines arising in connection with any alleged breach by Buyer or any of its Related Parties of this paragraph. Seller may terminate this Agreement in its entirety, without liability to Buyer, if Seller believes in good faith that Buyer or any of its Related Parties has violated or intends to violate this paragraph.

ARBITRATION; DISPUTE RESOLUTION; PRESERVATION OF REMEDIES. All disputes, claims or controversies (individually or collectively, a "Dispute") between Seller and Buyer arising out of or relating to the transactions contemplated by this Agreement, including without limitation any claim based on or arising from an alleged tort, shall be resolved by binding arbitration in accordance with Title 9 of the U.S. Code and the Commercial Arbitration Rules of the American Arbitration Association (the "AAA"). The Dispute will be arbitrated in Birmingham, Alabama, U.S.A. Defenses based on statutes of limitation and similar doctrines will be applicable in any such proceeding, and the commencement of an arbitration proceeding under this Agreement will be deemed the commencement of an action for such purposes. The parties will select arbitrators in accordance with the Commercial Arbitration Rules of the AAA. The AAA will designate a panel of ten (10) potential arbitrators knowledgeable in the subject matter of the Dispute. Seller and Buyer each shall designate, within thirty (30) days of the receipt of the list of potential arbitrators, one of the potential arbitrators to serve, and the two arbitrators so designated shall select a third arbitrator from the eight remaining candidates. Notwithstanding the foregoing, Seller reserves the right to resolve or bring any Dispute in a court of competent jurisdiction in accordance with paragraph 12 of these Terms and Conditions.

WAIVER. No waiver of any provision, right or remedy contained in this Agreement, including the terms of this Paragraph 15, is binding on, or effective against, Seller unless expressly set forth in writing and signed by Seller's authorized representative. Buyer expressly agrees that no right or remedy provided for in this Agreement can be waived through course of dealing, course of performance or trade usage. Buyer expressly agrees and acknowledges that reliance on any waiver without Seller's written consent is unreasonable. Waiver by Seller of any breach will be limited to the specific breach so waived and will not be construed as a waiver of any subsequent breach. Seller's approval or consent to any action proposed by Buyer will not be considered an agreement to the propriety, fitness or usefulness of the proposed action, and will not affect Buyer's obligation to strictly comply with this Agreement and all related orders.

ASSIGNMENT. Buyer may not assign this Agreement or any rights or obligations hereunder without Seller's prior written consent. Any attempted assignment in contravention of this paragraph is void. This Agreement, and the Terms and Conditions contained herein, are enforceable, however, against Buyer's successors and permitted assigns.

TAXES. Seller's prices do not include sales, use, excise or other similar taxes. Consequently, in addition to the price specified herein, Buyer will pay the amount of any present or future such tax, unless Buyer, at the time of sale, provides Seller with all tax-exemption certificates required by taxing authorities.

CUMULATIVE NATURE OF REMEDIES. Seller's remedies in this Agreement are cumulative and in addition to any other remedies available to Seller, whether at law, equity or otherwise.

SEVERABILITY. If any provision or part of a provision contained in this Agreement is held by a court of competent jurisdiction to be contrary to law or public policy, the remaining provisions of the Agreement will remain in full force and effect.

CONSTRUCTION. No provision of this Agreement may be construed against the Seller as the drafting party.

ILLUSTRATIONS. The typical installations for various products found in each product section are intended to illustrate the products and potential options for the use of these products. Under no circumstances are they to be construed as recommended installation procedures. Consult local codes and project specifications for proper installation instructions.

WADE products comply with Federal Specifications WWP-541-P & the most current revisions of applicable ANSI/ASME/ASSE/PDI standards.

Product Type	ANSI / ASME	ASSE	PDI	IAPMO File No.
Carriers	A112.6.1M-97			0913
Floor Drains	A112.6.3-2001			6564
Trap Primers		1018-01		
Shock Arrestors	A112.26.1M	1010-04	WH-201	
Roof Drains	A112.6.4-03			7579
Grease Interceptors	Z1001-07		G-101	2713
Cleanouts	A112.36.2M			2224
Wall Hydrants	A112.21.3M-85			1722
Floor Sinks	A112.6.7-10			6566

ASME Load Classifications (Safe Live Load)				
Light Duty (Under 2,000 Lb.)	Medium Duty (2,000 - 4,999 Lb.)	Heavy Duty (5,000 - 7,499 Lb.	Extra Heavy Duty (7,500 - 10,000 Lb.	Special Duty (Over 10,000 Lb.)

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ABBREVATIONS

(ABS)..... Acrylonitrile Butadienne Styrene
(ADF)..... Adjustable Extension
(Adj.)..... Adjustable
(AE) ..... Adjustable Deck Riser
(AEM) ..... Adjustable Deck Drain Riser
(ANSI)..... American National Standards Institute
(AR) ..... Acid Resistant Powder Coating
(ARC)..... Acid Resistant Coating
(ARE)..... Acid Resistant Enamel
(Alum.)..... Aluminum
(ASTM) ..... American Society for Testing and Materials
(ASME)..... American Society of Mechanical Engineers
(ASPE)..... American Society of Plumbing Engineers
(ASSE)..... American Society of Sanitary Engineers
(Assy) ..... Assembly
(AW) ..... Adjustable Water Regulator
(BWV)..... Backwater Valve
(BW) ..... Butt Weld
(CI)..... Cast Iron
(CO)..... Cleanout
(COF2)..... No-Hub Cleanout Ferrule (2")
(COF3)..... No-Hub Cleanout Ferrule (3")
(COF4)..... No-Hub Cleanout Ferrule (4")
(COF5)..... No-Hub Cleanout Ferrule (5")
(COF6)..... No-Hub Cleanout Ferrule (6")
(COF8)..... No-Hub Cleanout Ferrule (8")
(COT2)..... No-Hub Cleanout Tee (2")
(COT3)..... No-Hub Cleanout Tee (3")
(COT4)..... No-Hub Cleanout Tee (4")
(COT5)..... No-Hub Cleanout Tee (5")
(COT6)..... No-Hub Cleanout Tee (6")
(COT8)..... No-Hub Cleanout Tee (8")
(CF) ..... Carpet Flange
(CM)..... Carpet Marker
(CP) ..... Chrome Plated
(CRT)..... Hydrant Cartridge Repair Tool
(D)..... Overflow Dam
(Dbl.)..... Double
(DC)..... Double Adjust C.I. Strainerr
(Deg.)..... Degree
(DF) ..... Static Extension
(DFS)..... Perforated Extension
(DI)..... Ductile Iron
(DIA) ..... Deck Installation Assembly
(Dia.)..... Diameter
(DP) ..... Perforated Gravel Stop
(DCT)..... Decorative Top
(DSA)..... Down Spout Adapter
(DT) ..... Dex-O-Tex Flange
(DU)..... Distribution Unit
(DWV)..... Drainage, Waste & Vent
(E)..... Elastomeric Flange
(EB) ..... Deck Extension Pan
(EF4)..... 4" Diameter Funnel
(EF6)..... 6" Diameter Funnel
(EG6)..... 6" Elongated Funnel
(EG6)..... 8" Elongated Funnel
(EJ)..... Expansion Joint
(EPDM)..... Ethylene Propylene Diene Monomer
(F)..... Frame With Lugs
(FH) ..... Cradle Housing
(FHT) ..... Enclosed Cradle Housing
(FHMS)..... Flat Head Machine Screw
(FM)..... Flush Mount
(GPM)..... Gallons Per Minute
(GSC) ..... Integral Gas Seal Cone
(HD)..... Heavy Duty
(HDR) ..... Replacement Hydrant Rod
(HHMS)..... Hex Head Machine Screw
(HP) ..... Heel Proof
(I.D.)..... Inside Diameter
(IC)..... Inside Caulk
(In.) ..... Inches
(IPS) ..... Iron Pipe Size
(IPC) ..... International Plumbing Code
(LD)..... Light Duty
(LBV) ..... Less Backwater Valve
(Lb.) ..... Pound
(Lbs.) ..... Pounds
(LH)..... Left Hand
(LMV)..... Less Mixing Valve
(Max.) ..... Maximum
(Min.) ..... Minimum
(mm) ..... Millimeter
(NB) ..... Nickel Bronze
(NH)..... No-Hub
(No.)..... Number
(NPS)..... National Pipe Straight
(NPSH) ..... National Pipe Straight Hose
(NPT) ..... National Pipe Taper
(O.D.)..... Outside Diameter
(PB) ..... Polished Bronze
(PDI) ..... Plumbing & Drainage Institute
(PC) ..... Protective Cover
(PSI) ..... Pounds Per Square Inch
(PVC)..... Polyvinyl Chloride
(RB) ..... Rough Bronze
(RH)..... Right Hand
(RHP)..... Raised Head Plug
(RS) ..... Replacement Screen
(S)..... Square Top
(SD) ..... Special Duty
(SD) ..... Adjustable Internal Overflow Standpipe
(SO)..... 90 Degree Side Outlet
(SP) ..... Spigot
(SS) ..... Stainless Steel
(Sq.)..... Square
(Sq.In.)..... Square Inch
(Std)..... Standard
(SV) ..... Service Weight
(Thd.)..... Threaded
(VP) ..... Vandal Proof
(T)..... Recessed for Tile Cover (Round)
(TC) ..... Threaded Plug Cover
(TD) ..... Grate Supported Sediment Bucket
(TS)..... Recessed for Tile Cover (Square)
(TSD)..... Trap Seal Device (4405)
(TY)..... Ty-Seal (Push-On)
(U)..... Recessed for Terrazzo Cover (Round)
(UPC)..... Uniform Plumbing Code
(US) ..... Recessed for Terrazzo Cover (Square)
(VP) ..... Vandal Proof
(WCB)..... Water Control Box
(WK) ..... Hydrant Repair Kit
(WHRK) ..... Hydrant Repair Kit
(w/)..... With
(Wt.)..... Weight
(Wt.Lb.)..... Weight Pounds
(WP) ..... Component of Assembly
(XB) ..... Bariatric Rated
(XH) ..... Extra Heavy Duty
(XF)..... Extended Frame
(XT)..... Modular Extension
(Z)..... Ductile Iron Cover

Hydro-Flo Trench (Reference Current WHF Brochure for Detailed Specs, Options and Pricing)

You want a system that works for your project requirements. You need a solution that withstands it all – foot traffic, heavy loads, flow rate, the test of time. Hydro-Flo is manufactured for durability with features, like Epoxy-Coated frames and grates, mechanical overlaps, rebar clips, and combination anchor tabs and leveling devices.

We also factor in performance through form and function – depth for proper drainage, yet shallow installation, built-in molded slope for superior flow rates, heel-proof grating for foot traffic, non-porous internal surface for enhanced velocity

High Density Polyethylene (HDPE) - 4 ft long sections

• Durable • Chemical Resistant • Lightweight • Easy to Install

Carbon Steel (Armor Clad Coated) 6" & 12" Wide

Stainless Steel (304) 6" & 12" Wide

Various Grate Options

• Plastic (Various Colors)

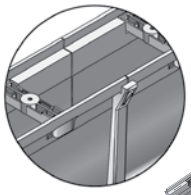
• Ductile Iron (Various Load Classes and Finishes)

• Stainless Steel (Fabricated and Investment Cast)

Integral Joint Lock

• Prevents joint movement during installation

• No extra clamps or screws required



Blank Grate Inserts

• Eliminates plywood

• Slides to overlap channel sections

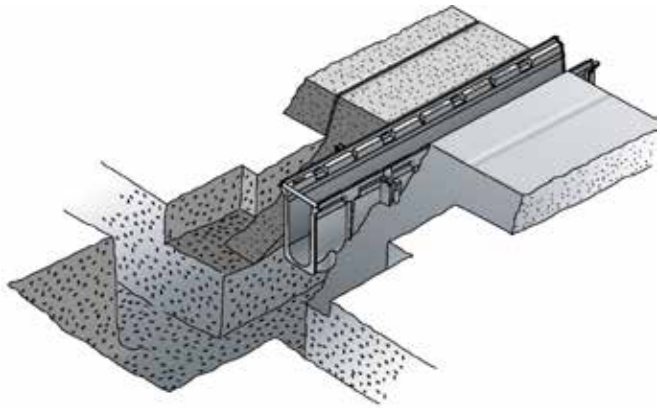
• Includes grate securing screws

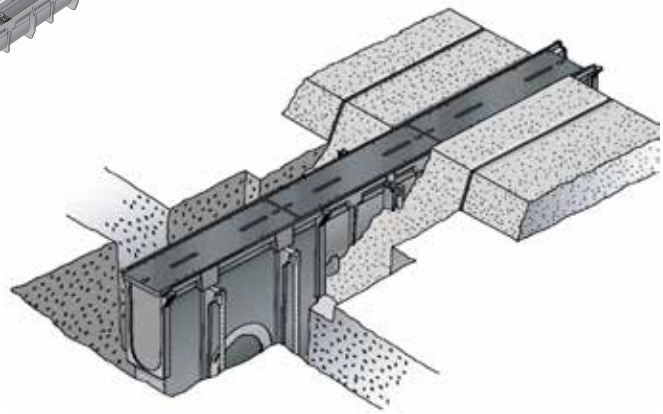
Built-In Slope

• 0.7% slope maintains optimum flow rates

• Neutral sections available (Non-Sloped)

• Sections available 4" to 12" deep





Bottom Outlet on Each Channel Section

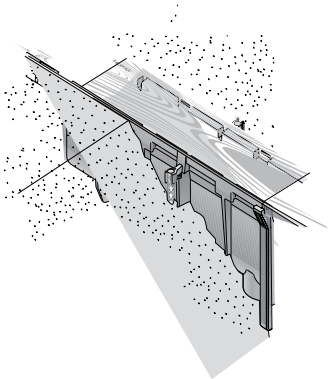
Provides system versatility and requires fewer accessories

Catch Basins (2 ft long)

Integral Re-Bar Supports

• Secure wire ties

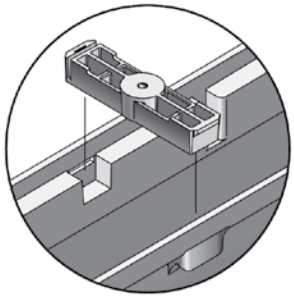
• Optional securing method - Self tapping screws



Locking System

• Locks grate into integral frame

• Supports during shipping and installations

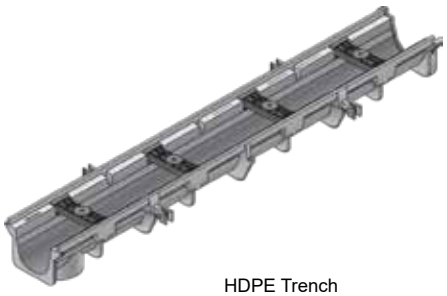


6" Wide



HDPE Catch Basin

6" Wide



HDPE Trench

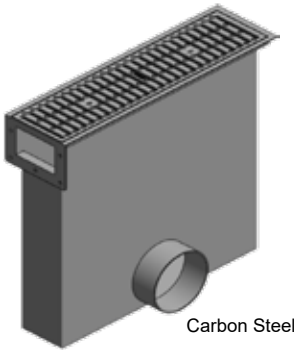
6" Wide





HDPE Radius Trac

6" Wide



Carbon Steel Catch Basin



Carbon Steel Trench
6" Wide Flat Bottom

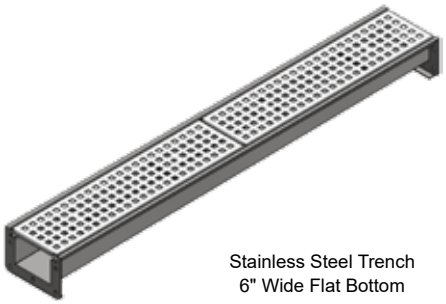


Carbon Steel Trench
6" Wide 'V' Bottom

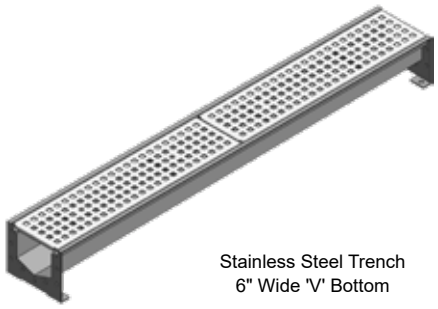
6" Wide



Stainless Steel Catch Basin

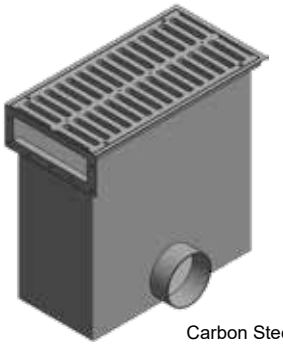


Stainless Steel Trench
6" Wide Flat Bottom



Stainless Steel Trench
6" Wide 'V' Bottom

12" Wide



Carbon Steel Catch Basin

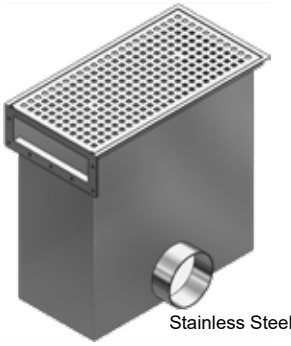


Carbon Steel Trench
12" Wide Flat Bottom

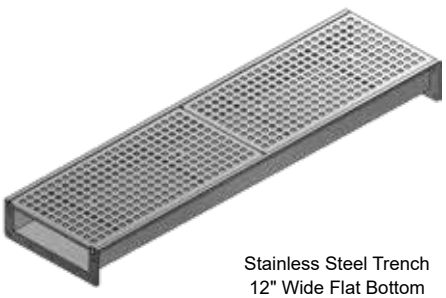


Carbon Steel Trench
12" Wide 'V' Bottom

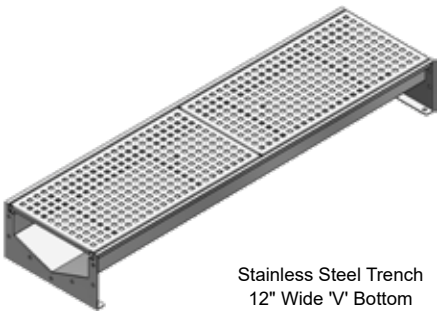
12" Wide



Stainless Steel Catch Basin



Stainless Steel Trench
12" Wide Flat Bottom



Stainless Steel Trench
12" Wide 'V' Bottom

Stainless Steel Drainage

(Reference Current WSS Brochure for Detailed Specs, Options and Pricing)

The many unique benefits provided by stainless steel make it an ideal candidate when selecting drains, grating, cleanouts and components.

Engineers, architects and designers often underestimate or overlook these values because of what is viewed as the higher initial cost of stainless steel. However, over the total life of a project, stainless is often the best value option for industrial and commercial projects.

WHAT IS STAINLESS STEEL?

Stainless steel is a low carbon steel which contains chromium at 10% or more by weight. It is this addition of chromium that gives the steel its unique stainless, corrosion resisting properties. The chromium content of the steel allows the formation of a tough, adherent, invisible, corrosion-resisting chromium oxide film on the steel surface. If damaged mechanically or chemically, this film is self-healing, provided that oxygen, even in very small amounts, is present.

Wade uses 304 and 316 grades of stainless steel. These grades are steel alloys with 17-25% Chromium and 8-25% Nickel. Typical uses for these grades include food equipment, chemical equipment and architectural applications.

BENEFITS OF STAINLESS STEEL

Corrosion resistance – lower-alloyed grades resist corrosion in atmospheric and pure water environments, while high-alloyed grades can resist corrosion in most acids, alkaline solutions, and chlorine bearing environments, properties which are utilized in process plants.

Fire and heat resistance – special high chromium and nickel-alloyed grades resist scaling and retain strength at high temperatures.

Hygiene and sanitation – the easy cleaning ability of stainless makes it the first choice for strict hygiene conditions, such as hospitals, restaurants, kitchens and food processing plants.

Aesthetic appearance – the bright, easily maintained surface of stainless steel provides a modern and attractive appearance.

Strength-to-weight advantage – the work-hardening property of austenitic grades results in a significant strengthening of the material from cold-working alone, and the high strength duplex grades allow for reduced material thickness over conventional grades, therefore reducing costs.

Ease of fabrication – modern steel-making techniques mean that stainless can be cut, welded, formed, machined, and fabricated as readily as traditional steels.

Impact resistance – the austenitic microstructure of the 300 series provides high toughness, from elevated temperatures to far below freezing, making these steels particularly suited to cryogenic applications.

Long term value – when the total life cycle costs are considered, stainless is often the least expensive material option.

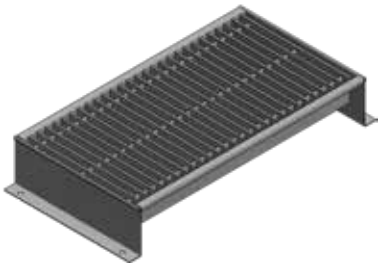
Floor and Area Drains



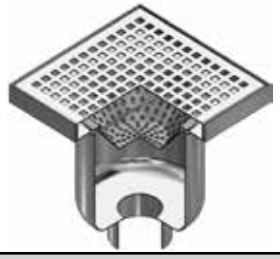
Cleanouts



Receptor Drains



Floor Sinks

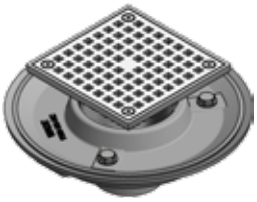
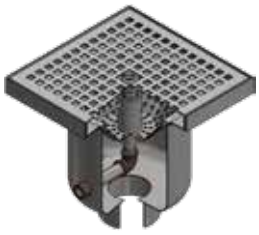
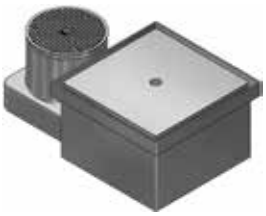
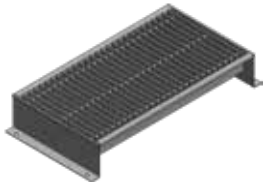
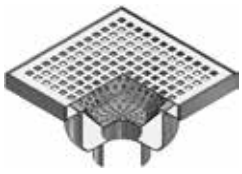
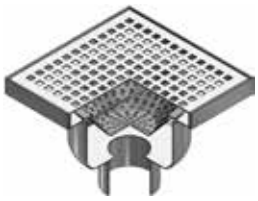
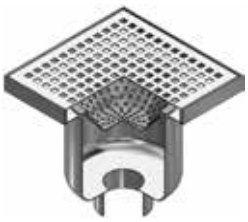
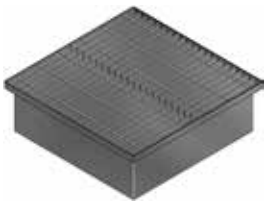
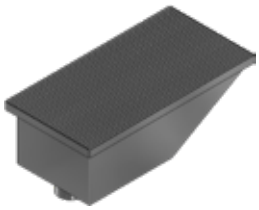


Kettle Drains



Elevator Threshold Drain



 Floor Drain 1100SS-A	 Floor Drain 1100SS-DT	 Floor Drain 1100SS-ER	 Floor Drain 1100SS-G	 Area Drain 1200SS
 Area Drain 1300SS	 Area Drain 1500SS	 Side Wall Pit Drain 1780SS	 Can Wash Drain 1970SS	 Industrial Drain 2070SS
 Cleanout 6100SS	 Cleanout 6100SS-R	 Cleanout 6100SS-S	 Cleanout 8200SS	 Open Site Drip Drain 9410SS
 Open Site Drip Drain 9440SS	 Floor Receptor 9530SS	 Elevator Threshold Drain 9535SS	 Floor Sink 9720SS	 Floor Sink 9730SS
 Floor Sink 9740SS	 Floor Sink 9750SS	 Kettle Drain 9790SS	 Kettle Drain 9792SS	 Kettle Drain 9793SS

Siphonic Roof Drainage Systems (the Engineered Solution)

Siphonic drainage systems use the effects of a siphon to achieve full-bore flows. Traditional gravity rainwater drainage requires a large volume of air to transport a small volume of water (2/3 Air - 1/3 Water).

A Siphonic Roof Drainage system utilises the full height of the building to provide the energy to create a powerful siphonic action. A collection of elements combine to create the Siphonic Roof Drainage System. The piping system is empty prior to a storm event.

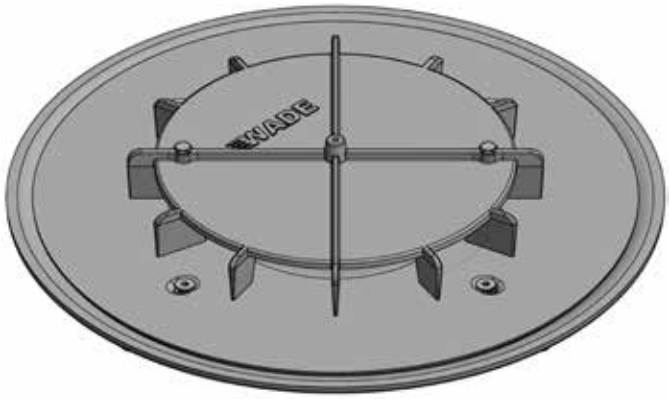
As the rainfall event starts, the Siphonic Roof Drain prevents air-entry into the pipework system using its Anti-Vortex fins to stop Vortex formation.

WADE utilizes an advanced analytical design software program to accurately size the pipework diameters necessary to rapidly fill and prime the piping system for optimised performance.

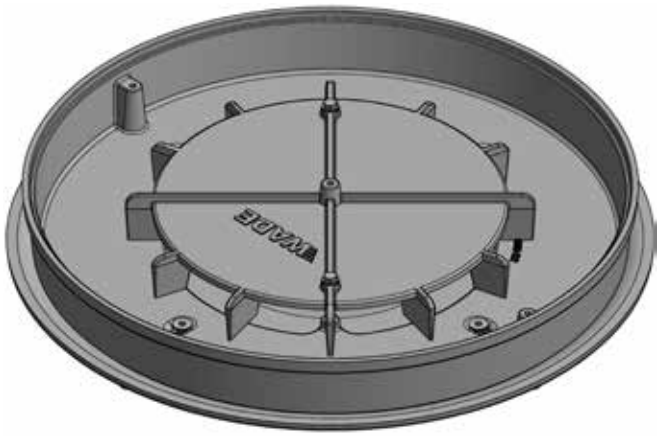
A Siphonic Roof Drainage System will utilise significantly smaller pipe diameters than required in a traditional gravity system. As the small diameter pipes prime and the water reaches the vertical downpipe, the water accelerates due to the forces of gravity. This acceleration creates the negative pressures that gives the system its siphonic action and it literally sucks the water off the roof until the rainfall event abates.

Benefits

- No Grade Required (All Horizontal Piping Installed Level)
- Self Scouring (Accelerated Flow Rates Clean the System)
- Increased Usable Building Space (Fewer Vertical Downpipes)
- Environmental Benifits (Controlled Flow, Controlled Discharge and Compatibility to Retention & Harvesting Systems)



WH-400
PRIMARY DRAIN



WH-401
OVERFLOW DRAIN

Catalog No. (Primary)	Catalog No. (Overflow)	Resistance Value (K)	Minimum Inflow (GPM)	Maximum Outflow (GPM)
WH-300	WH-301	0.12	23.0	415.0
WH-400	WH-401	0.08	75.0	750.0
WH-500	WH-501	0.04	120.0	1280.0
WH-600	WH-601	0.04	160.0	1820.0

Wade is a Leader In Siphonic Roof Drainage Systems with hundreds of successful installations in the United States and Canada.

Our Extensive Line of Siphonic Solutions is Cataloged in a Separate Brochure, plus we offer design assistance to the qualified design professional.

Please Contact your Local Wade Sales Representative for Details.

HYDRAULIC CALCULATION PROGRAM (Wade Drain Works)

Wade has developed the most comprehensive balancing software in the industry. Literally years of experience combined with thousands of man hours of development and some of the top names in the siphonic industry have contributed to create a technologically advanced engineering package.

This user friendly product allows the engineer to build the siphonic drainage system from the roof drain catchment areas to the below grade gravity system complete with pipe cut lengths, all fittings and couplings and in various piping materials selected.

The three dimensional package renders the layouts in exceptional quality in an easy to understand conceptual style that can be exported for inclusion in engineering plans. An accurate bill of material is automatically generated for accurate quotations.

Program Highlights

• Allows users to select their chosen units of measurement to draw, design and calculate in either metric or imperial (“English”) feet and inches.

• Readily accessible as a web based application - all users are using the latest version.

• Being web-based allows registered users access on any internet linked computer anywhere in the world and enables our Technical Support Team to assist with any design assistance.

• Independently tested by ????????? - it offers extreme precision through reporting of hydraulic conditions.

• You can rest assured that the hydraulic calculations will result in a successful siphonic drainage system when the pipe system is installed to the design.

• Our 100% success rate is testament to our leading position in siphonic drainage systems.

• Gives the design engineer the tools to edit pipe systems as required to accomodate real-life on-site change requirements.

How It Works

After the Design Engineer has determined design rainfall rate and calculated roof areas, they should determine roof drain positions and volume of water for each drain. From this point the designer will sketch these pipe routes into Wade Drain Works.

Wade Drain Works then calculates the pipe diameters required to meet the hydraulic perimeters of the chosen local design standard or code (the most advanced standards such as BS 8490:2007 or ASPE Technical Design Standard 45 are most commonly used).

When completed, a Pass/Fail will be calculated. Based on the data provided the system can tweaked for optimal performance.

Training

Wade offers a range of training programs to suit you and your company.

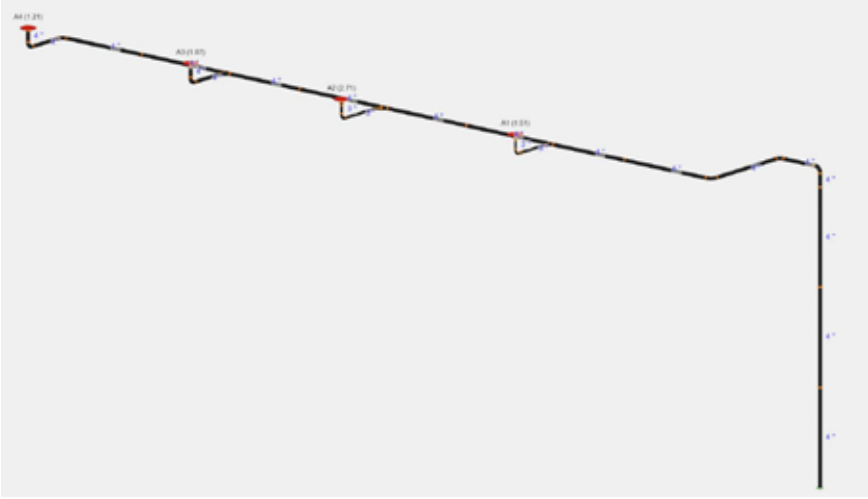
From 1 on 1 to large audiences, we will be pleased to discuss training requirements with you. Some of the topics we can cover include:

• Introduction to Siphonic Drainage - Explanation of how a siphonic drainage system works
• History of Siphonic Drainage
• Understanding the Hydraulic principles of Gravity Drainage
• Understanding the Hydraulic principles of Siphonic Drainage
• Introduction to published standards (tailored to your particular maket)
• Hydraulic Parameters to be met within the analytical design program (to comply with local standards)
• Hands-on training on use of the analytical design program
• Piping Details - Do’s and Don’ts
• System Termination and Venting Requirements

HYDRAULIC CALCULATION PROGRAM (Wade Drain Works)

Project Details

Project	Dec Test
Sys. Identifier	Test
Location	Texas
User	John Rohrer
Rainfall Rate	3.00 inch/h



Design Parameters

Min Pressure	-23.762 ft
Max Pressure	0.377 ft
Min Stack Velocity	15.319 ft/s
Min Velocity	3.830 ft/s
Max Velocity	15.950 ft/s
Overall Imbalance	1.508 ft/s
Fill time	7.185 sec
Available Head	33.993 ft
Head Loss Check	PASS
Residual Head Check	PASS
Final Diameter Check	PASS
Pass/Fail	PASS

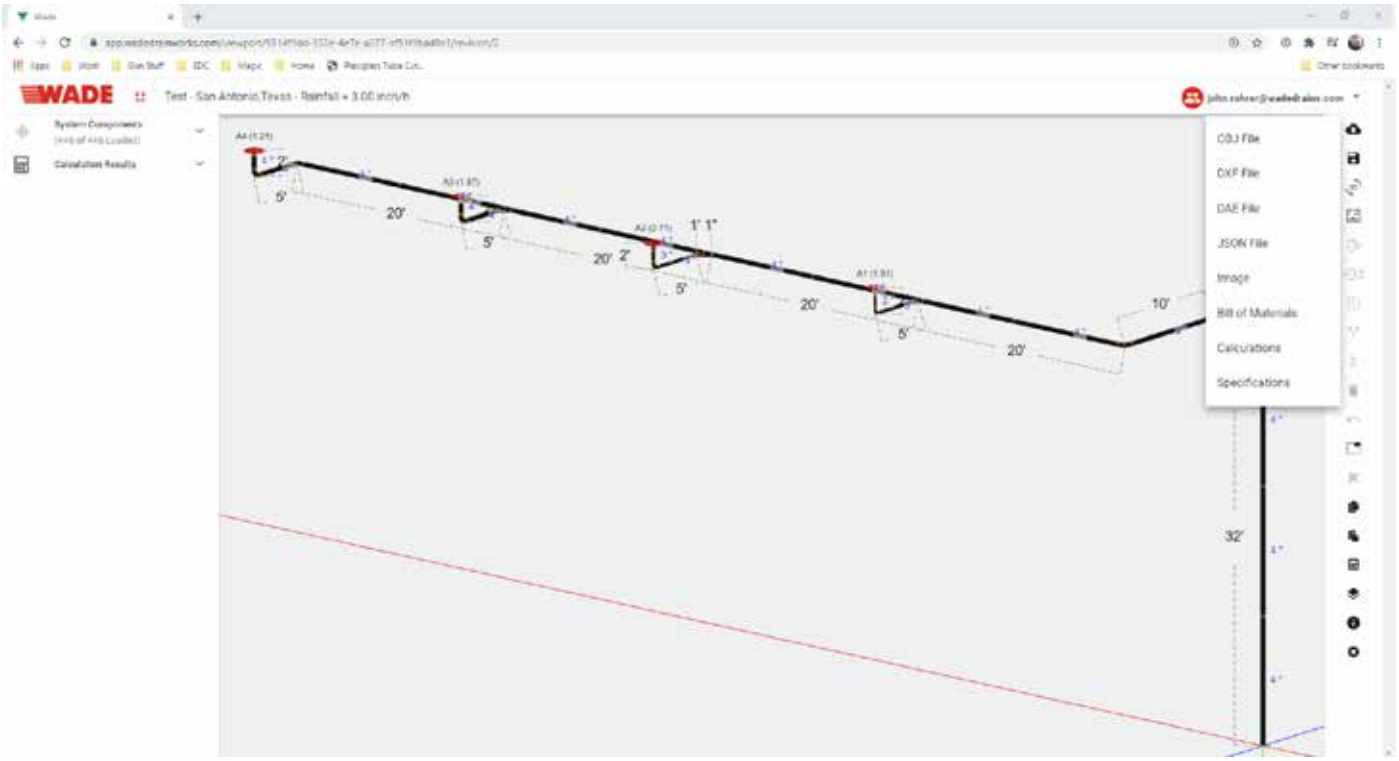
Tail Pipes

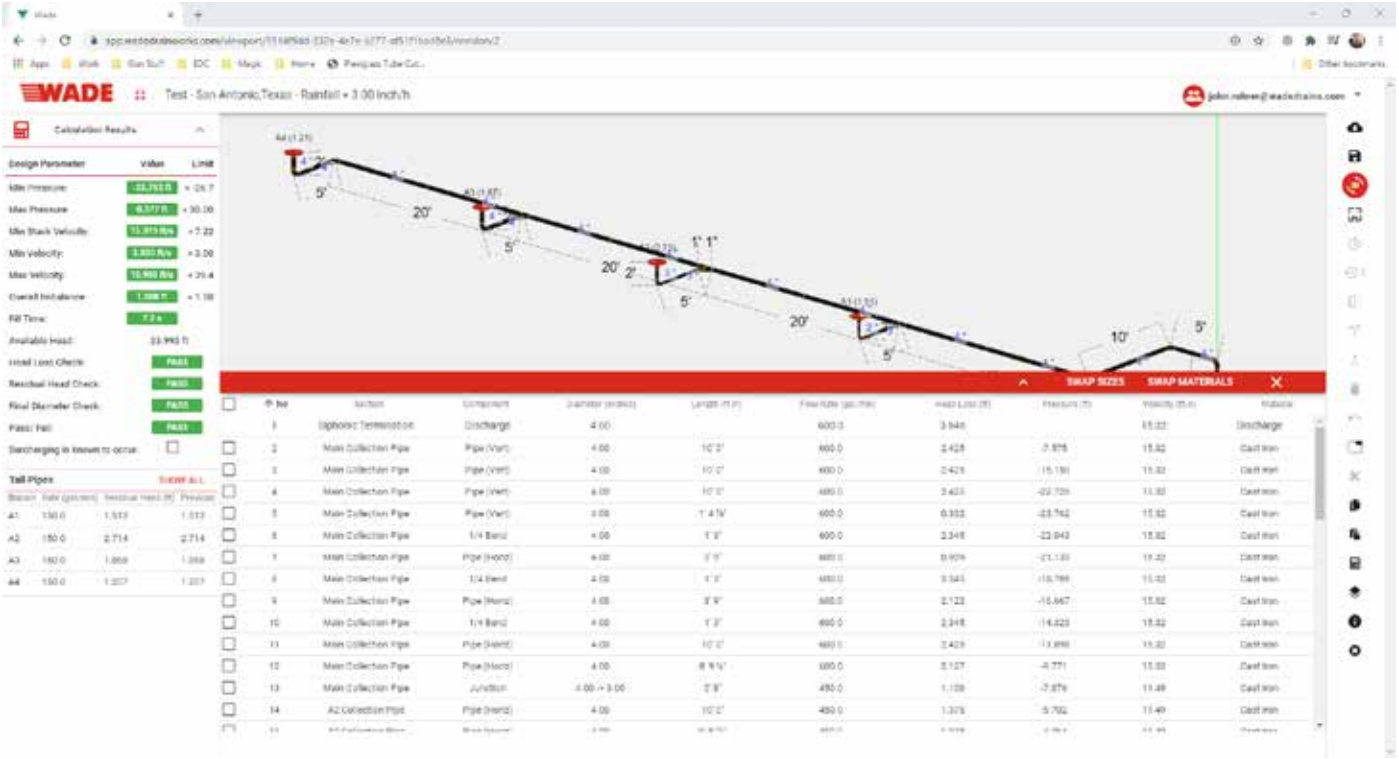
Name	Flow Rate (gal/min)	Residual Head
A4	150.000 gal/min	1.207 ft
A3	150.000 gal/min	1.868 ft
A2	150.000 gal/min	2.714 ft
A1	150.000 gal/min	1.513 ft

Siphonic Components

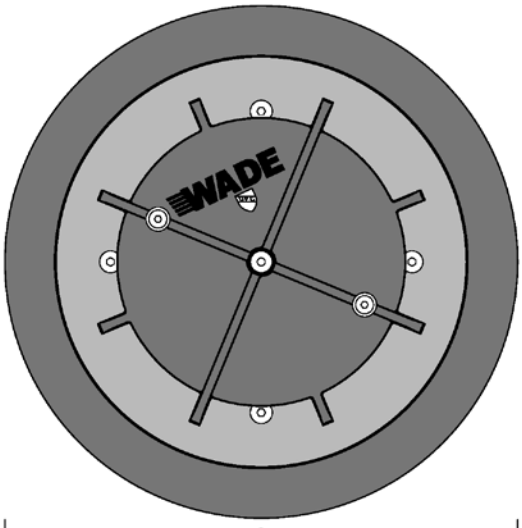
Section	Component	Length (ft)	Height (ft)	Diameter	Rate (gal/min)	Head Loss (ft)	Pressure (ft)	Velocity (ft/s)	Material
Siphonic Termination	Discharge			4.00"	600.00	3.646'		15.32	Discharge
Main Collection Pipe	Pipe (Vert)	10' 0"	10' 0"	4.00"	600.00	2.425'	-7.575'	15.32	Cast Iron
Main Collection Pipe	Pipe (Vert)	10' 0"	10' 0"	4.00"	600.00	2.425'	-15.150'	15.32	Cast Iron
Main Collection Pipe	Pipe (Vert)	10' 0"	10' 0"	4.00"	600.00	2.425'	-22.726'	15.32	Cast Iron
Main Collection Pipe	Pipe (Vert)	1' 4⅜"	1' 4⅜"	4.00"	600.00	0.332'	-23.762'	15.32	Cast Iron
Main Collection Pipe	1/4 Bend	1' 3"	0' 7½"	4.00"	600.00	2.345'	-22.043'	15.32	Cast Iron
Main Collection Pipe	Pipe (Horiz)	3' 9"		4.00"	600.00	0.909'	-21.133'	15.32	Cast Iron
Main Collection Pipe	1/4 Bend	1' 3"		4.00"	600.00	2.345'	-18.789'	15.32	Cast Iron
Main Collection Pipe	Pipe (Horiz)	8' 9"		4.00"	600.00	2.122'	-16.667'	15.32	Cast Iron
Main Collection Pipe	1/4 Bend	1' 3"		4.00"	600.00	2.345'	-14.323'	15.32	Cast Iron
Main Collection Pipe	Pipe (Horiz)	10' 0"		4.00"	600.00	2.425'	-11.898'	15.32	Cast Iron
Main Collection Pipe	Pipe (Horiz)	8' 9¼"		4.00"	600.00	2.127'	-9.771'	15.32	Cast Iron
Main Collection Pipe	Junction	0' 8"		4.00"	450.00	1.100'	-7.076'	11.49	Cast Iron
A1 Tail Pipe	Branch	0' 8½"		3.00"	150.00	-0.137'	-5.923'	6.99	Cast Iron
A1 Tail Pipe	Pipe (Horiz)	3' 5½"		3.00"	150.00	0.262'	-5.660'	6.99	Cast Iron
A1 Tail Pipe	Reducer	0' 3½"	0' 0"	3.00" -> 2.00"	150.00	1.358'	-7.494'	15.95	Cast Iron
A1 Tail Pipe	1/4 Bend	1' 1"	0' 6½"	2.00"	150.00	2.916'	-5.120'	15.95	Cast Iron
A1 Tail Pipe	Pipe (Vert)	0' 10"	0' 10"	2.00"	150.00	0.538'	-5.411'	15.95	Cast Iron
A1 Tail Pipe	Reducer	0' 4"	0' 4"	4.00" -> 2.00"	150.00	1.651'	-4.093'	15.95	Cast Iron
A1 Tail Pipe	Roof Drain (A1)	0' 3½"	0' 3½"	4.00"	150.00	0.023'	-0.118'	3.83	Coated Cast Iron
A2 Collection Pipe	Pipe (Horiz)	10' 0"		4.00"	450.00	1.375'	-5.702'	11.49	Cast Iron
A2 Collection Pipe	Pipe (Horiz)	9' 8⅛"		4.00"	450.00	1.338'	-4.364'	11.49	Cast Iron
A2 Collection Pipe	Junction	0' 9½"		4.00"	300.00	0.867'	-2.357'	7.66	Cast Iron
A2 Tail Pipe	Branch	0' 7⅛"		4.00"	150.00	0.090'	-1.584'	3.83	Cast Iron
A2 Tail Pipe	Reducer	0' 4"	0' 0"	4.00" -> 3.00"	150.00	0.173'	-1.943'	6.99	Cast Iron
A2 Tail Pipe	1/8 Bend	0' 4"	0' 0"	3.00"	150.00	0.238'	-1.705'	6.99	Cast Iron
A2 Tail Pipe	Pipe (Horiz)	4' 3"		3.00"	150.00	0.322'	-1.382'	6.99	Cast Iron
A2 Tail Pipe	1/4 Bend	1' 2"	0' 7"	3.00"	150.00	0.514'	-1.452'	6.99	Cast Iron
A2 Tail Pipe	Pipe (Vert)	0' 9½"	0' 9½"	3.00"	150.00	0.060'	-2.180'	6.99	Cast Iron
A2 Tail Pipe	Reducer	0' 4"	0' 4"	4.00" -> 3.00"	150.00	0.179'	-2.335'	6.99	Cast Iron
A2 Tail Pipe	Roof Drain (A2)	0' 3½"	0' 3½"	4.00"	150.00	0.023'	-1.552'	3.83	Coated Cast Iron
A3 Collection Pipe	Pipe (Horiz)	10' 0"		4.00"	300.00	0.620'	-1.737'	7.66	Cast Iron
A3 Collection Pipe	Pipe (Horiz)	8' 7⅛"		4.00"	300.00	0.536'	-1.201'	7.66	Cast Iron
A3 Collection Pipe	Junction	0' 9½"		4.00"	150.00	0.375'	-0.143'	3.83	Cast Iron
A3 Tail Pipe	Branch	0' 10"		4.00"	150.00	0.176'	0.034'	3.83	Cast Iron
A3 Tail Pipe	Pipe (Horiz)	3' 6½"		4.00"	150.00	0.057'	0.091'	3.83	Cast Iron

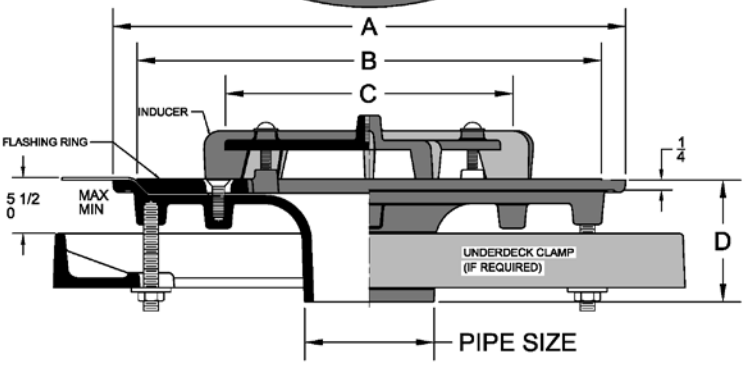
HYDRAULIC CALCULATION PROGRAM (Wade Drain Works)

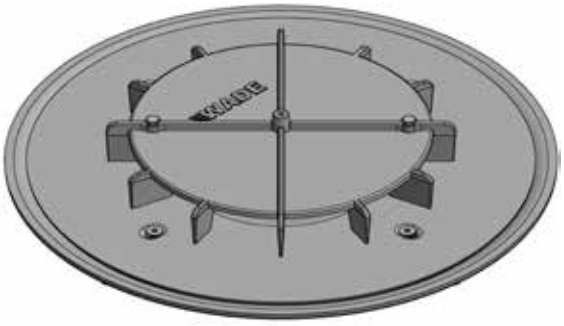




WH-300,WH-400,WH-500,WH-600 Large Area Primary Siphonic Roof Drain







WH-400-4NH

Contact Wade or your local sales representative for design assistance and pricing.

Catalog Number	Pipe Size	Dimensions (In.)				Resistance Value (K)	Minimum Inflow (GPM)	Maximum Inflow (GPM)	Wt. Lbs.
		A	B	C	D				
WH-300	3”	13	11 3/4	7 1/4	3 1/8	0.12	23.0	415.0	
WH-400	4”	19 3/8	17 7/8	10 5/8	3 1/2	0.08	75.0	750.0	
WH-500	5”	19 3/8	17 7/8	12 1/4	4 3/8	0.04	120.0	1280.0	
WH-600	6”	25 1/4	22 1/4	15 1/2	4 3/4	0.04	160.0	1820.0	

Regularly Furnished: Painted cast iron primary siphonic roof drain with flange, membrane clamp, inducer and no-hub bottom outlet.

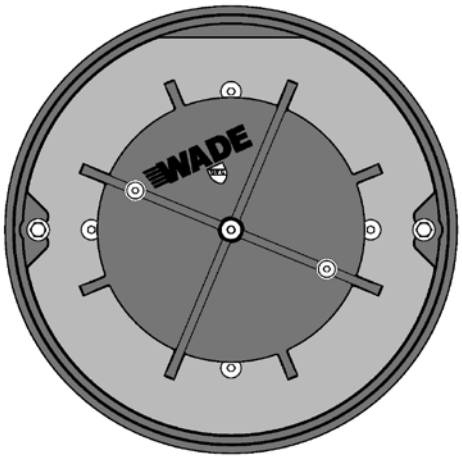
Outlet Variations	
Type	**Designation**
No-Hub	3NH,4NH,5NH,6NH

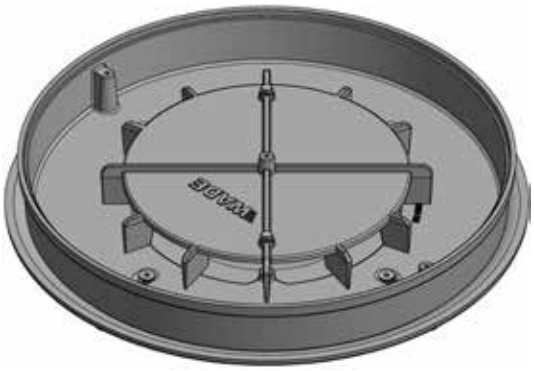
Optional Extensions & Drain Risers	
Suffix	**Description**
EB	Adjustable Drain Riser Pan *

* *Dimensions vary from illustration*

Suffix Options		
Suffix	**Description**	
ARC	Acid Resistant Coating (ArmorClad)	
DP	Perforated Stainless Steel Gravel Stop *	
DG	Debris Guard	
5	Vandal Proof Top	
39	Galvanized Cast Iron	3”
		4”
		5”
		6”
52	Bearing Pan (Sump Receiver) *	
53	Under Deck Clamp *	
189	Bearing Pan w/ Securing Hardware *	

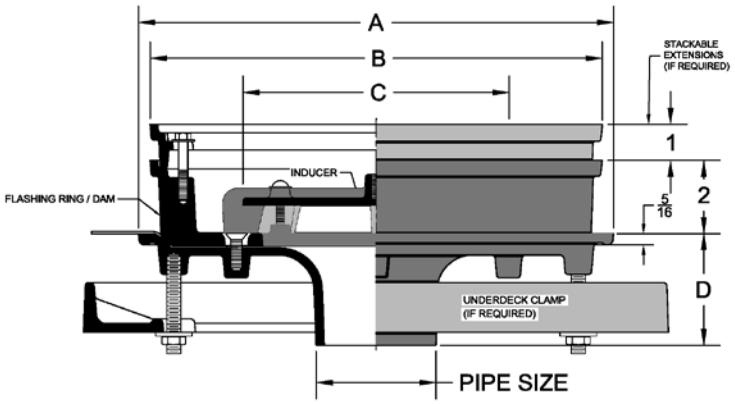
WH-301,WH-401,WH-501,WH-601 Large Area Overflow Siphonic Roof Drain





WH-401-4NH

Contact Wade or your local sales representative for design assistance and pricing.



Catalog Number	Pipe Size	Dimensions (In.)				Resistance Value (K)	Minimum Inflow (GPM)	Maximum Inflow (GPM)	Wt. Lbs.
		A	B	C	D				
WH-301	3”	13	11 3/4	7 1/4	3 1/8	0.12	23.0	415.0	
WH-401	4”	19 3/8	17 7/8	10 5/8	3 1/2	0.08	75.0	750.0	
WH-501	5”	19 3/8	17 7/8	12 1/4	4 3/8	0.04	120.0	1280.0	
WH-601	6”	25 1/4	22 1/4	15 1/2	4 3/4	0.04	160.0	1820.0	

Regularly Furnished: Painted cast iron primary siphonic roof drain with flange, membrane clamp, overflow dam, inducer and no-hub bottom outlet.

Outlet Variations		
Type	**Designation**	**Add**
No-Hub	3NH,4NH,5NH,6NH	N/C

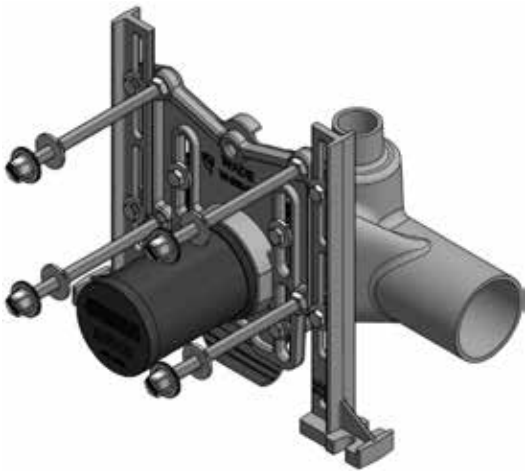
Optional Drain Risers		
Suffix	**Description**	**Add**
EB	Adjustable Drain Riser Pan *	P.O.A.

* *Dimensions vary from illustration*		
Suffix Options		
Suffix	**Description**	
ARC	Acid Resistant Coating (ArmorClad)	
DP	Perforated Stainless Steel Gravel Stop *	
DG	Debris Guard	
EA	Stackable Dam Extension (1” High)	
5	Vandal Proof Top	
39	Galvanized Cast Iron	3”
		4”
		5”
		6”
52	Bearing Pan (Sump Receiver) *	
53	Under Deck Clamp *	
189	Bearing Pan w/ Securing Hardware *	

FIXTURE SUPPORTS

Index

Application	Product Recommendation
Water Closet Carriers (Commercial)	311, 311HD, 311, 311XB, 311XH, 330, 330HD, 330XB, 330XH, 350, 360
Penal Fixture Fittings	361
Water Closet Carriers (Residential)	380, 397
Urinal Carriers	401, 402, 640
Drinking Fountain / Water Cooler Carriers	403
Lavatory & Sink Carriers	404, 461, 462, 510, 520, 525, 530, 571, 572, 573, 610, 620, 630, 640
Clinical / Service Sink Carriers	610, 620, 630, 640



How To Specify



311-NL4-AM1

Series Number (Required)

Connection Type & Size (Required)

Miscellaneous Options (As Needed)

403-M3

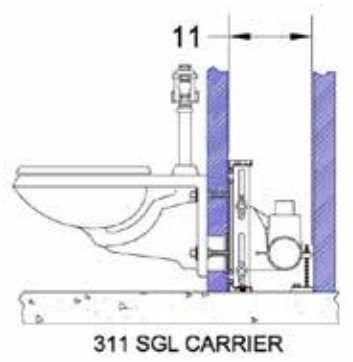
Series Number (Required)

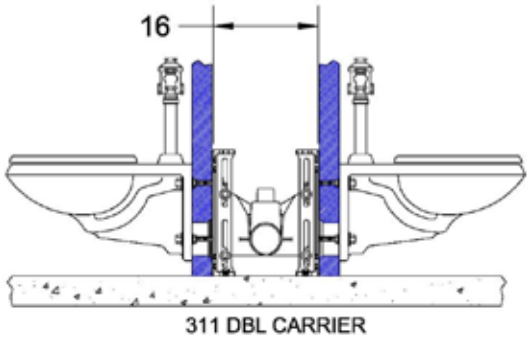
Miscellaneous Options (As Needed)

ASME Load Ratings

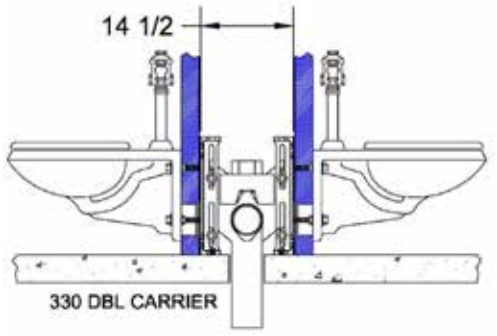
Wade fixture supports meet ASME A112.6.1M Floor-Affixed Supports For Off-The-Floor Plumbing Fixtures For Public Use. Refer to individual item pages for load classifications. Note: Some Fixture Supports may exceed ASME load ratings. If job requirements exceed the rated classification, contact factory for recommendations. For HD, XH & XB supports, the test procedure outlined in ASME A112.6.1M was followed using the stated loads and meets the deflection limits outlined in the standard.

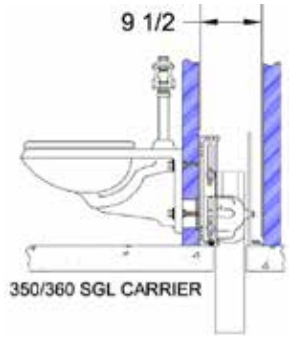
Minimum Wall Thickness

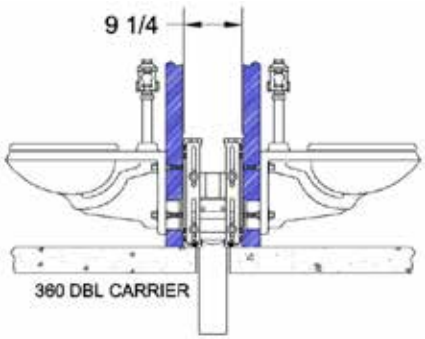










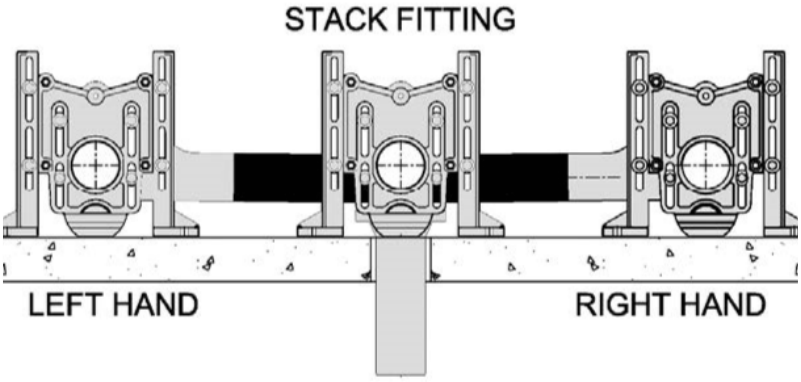


Determination of Left / Right Hand

Stand facing the fixtures.

If flow is from the right, Wade horizontal fittings are right-hand.

If flow is from the left, Wade horizontal fittings are left-hand.

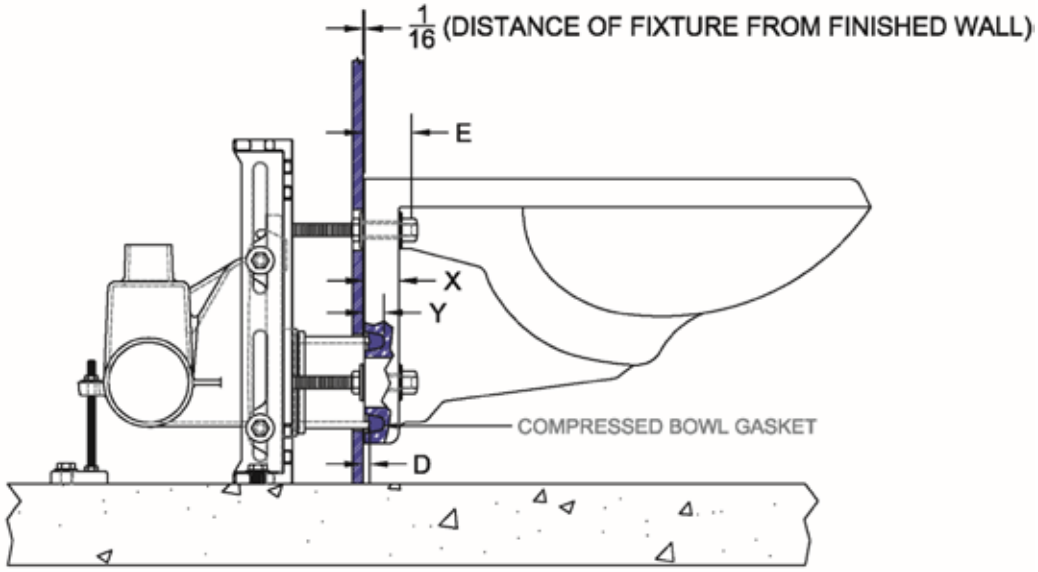


FIXTURE SUPPORTS

Carrier - Technical Data

Determination of Coupling, Fixture Support Studs and Fixture Distances from Finished Wall

To insure a tight seal at the outlet of a wall mount water closet, the front end of the coupling should extend enough to compress the neoprene gasket adequately when the fixture is in the desired location. This dimension will vary depending upon the depth of recess (Dimension Y) in the fixture. The following formulas may be used to determine the correct amount of coupling which should extend in front of the finished wall (Dimension D) as well as the amount of support stud which should extend through for proper installation (Dimension E).



Formula for Dimension 'D' (Distance the closet coupling should extend beyond the finished wall)

D = Y + 1/16 - 1/2

Formula for Dimension 'E' (Distance the fixture support studs should extend beyond the finished wall)

E = X + 1/16 + 5/8

Y = Depth of Recess of the Fixture Horn

X = Thickness of Fixture Wall Flange

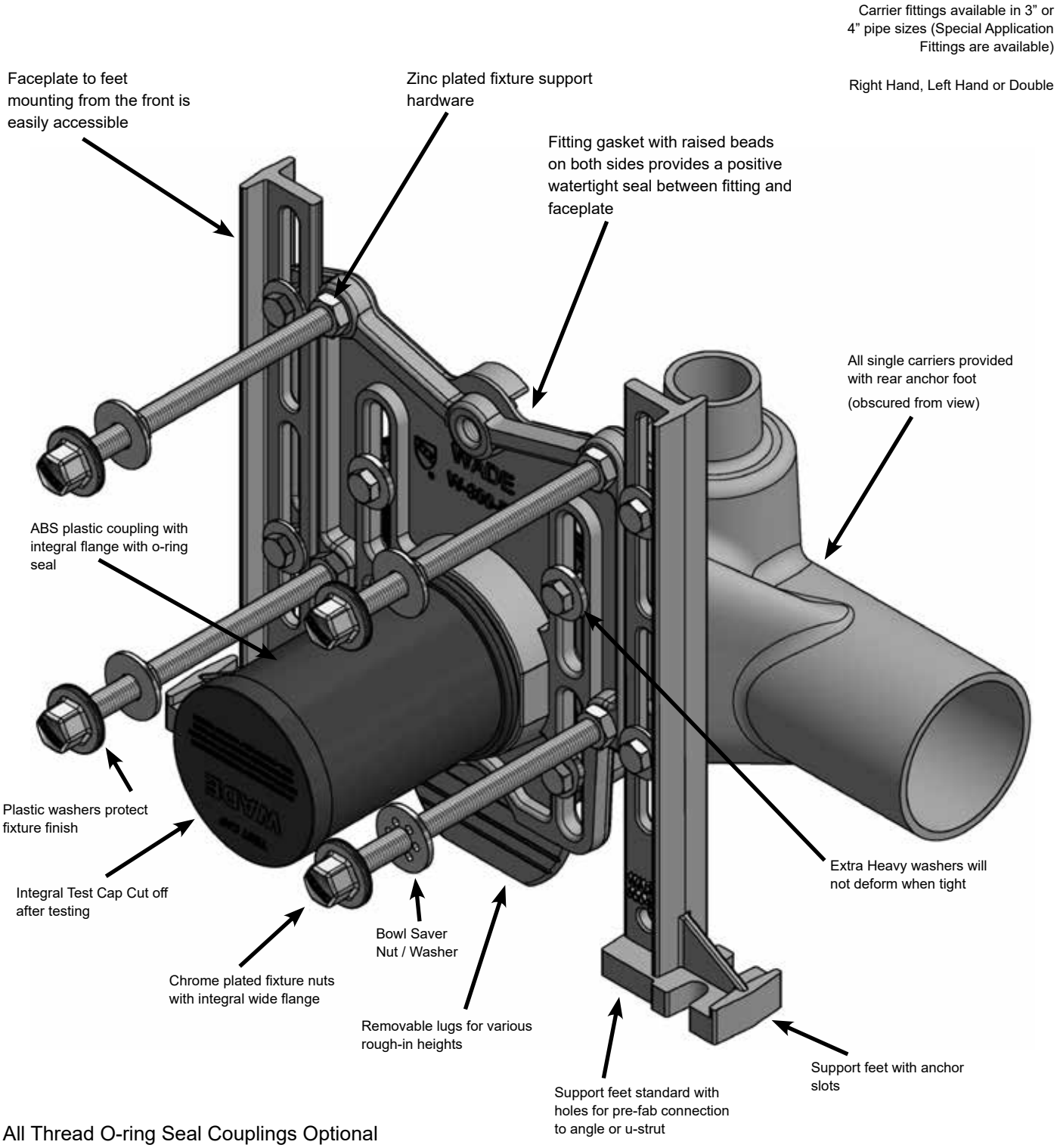
1/16" = Distance Fixture Should Be Located From Finished Wall
(This allows for a bead of flexible sealant around the fixture flange)

Allowance for Concealed Flush Valves

When wall mount fixtures with rear inlet supply spuds are installed with concealed flush valves, location of the faceplate behind the wall is important. Siphon Jet fixtures allow for the supply line to be located as desired because the supply line will clear the top of the face plate and vent piping. Blow-Out installations require that the faceplate be located behind the supply piping.

General Product Information

311-NL (Adjustable Horizontal Water Closet Carrier)



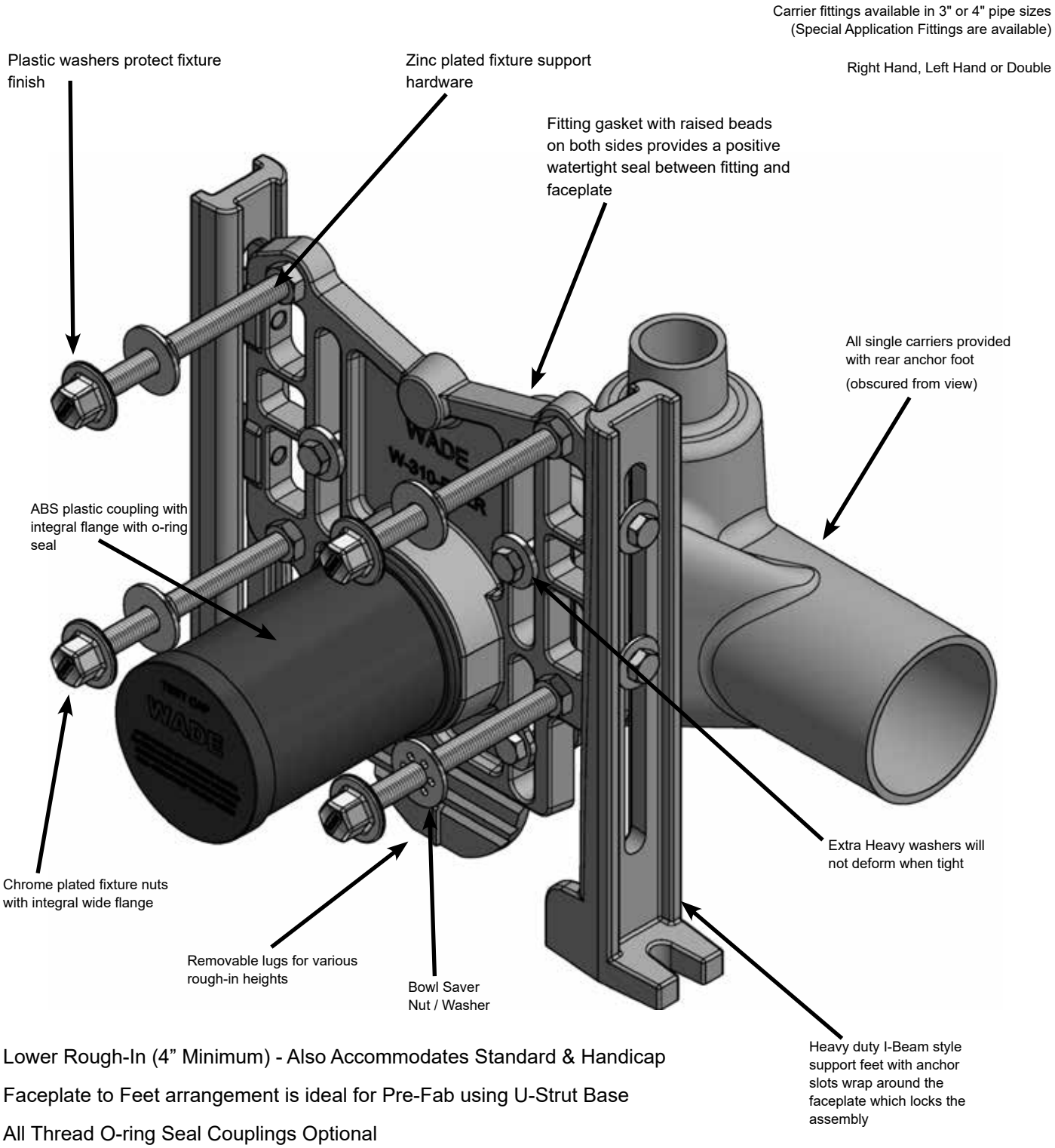
All Thread O-ring Seal Couplings Optional

Standard 7” Long Coupling (Longer Units Optional)

ASME Load Rating—300 Lb.

General Product Information

311LR-NL (Adjustable Horizontal Water Closet Carrier) Low Rough-In & Pre-Fab



Lower Rough-In (4” Minimum) - Also Accommodates Standard & Handicap

Faceplate to Feet arrangement is ideal for Pre-Fab using U-Strut Base

All Thread O-ring Seal Couplings Optional

Standard 7” Long Coupling (Longer Units Optional)

ASME Load Rating—300 Lb.

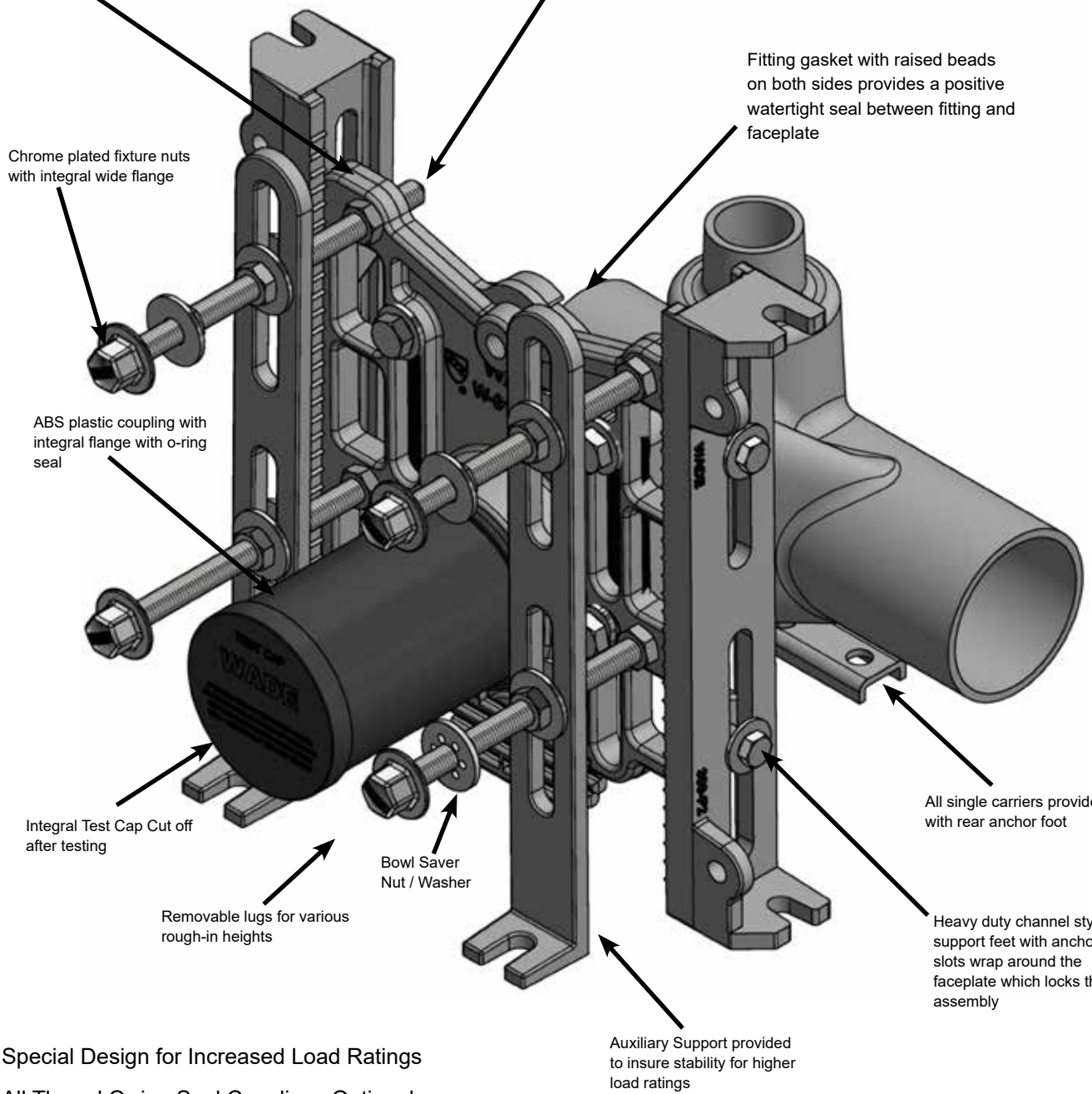
General Product Information

311 (HD, XH or XB) -NL Adjustable Horizontal Water Closet Carrier

Carrier fittings available in 3” or 4” pipe sizes

(Special Application Fittings are available)

Right Hand, Left Hand or Double



Special Design for Increased Load Ratings

All Thread O-ring Seal Couplings Optional

Standard 7” Long Coupling

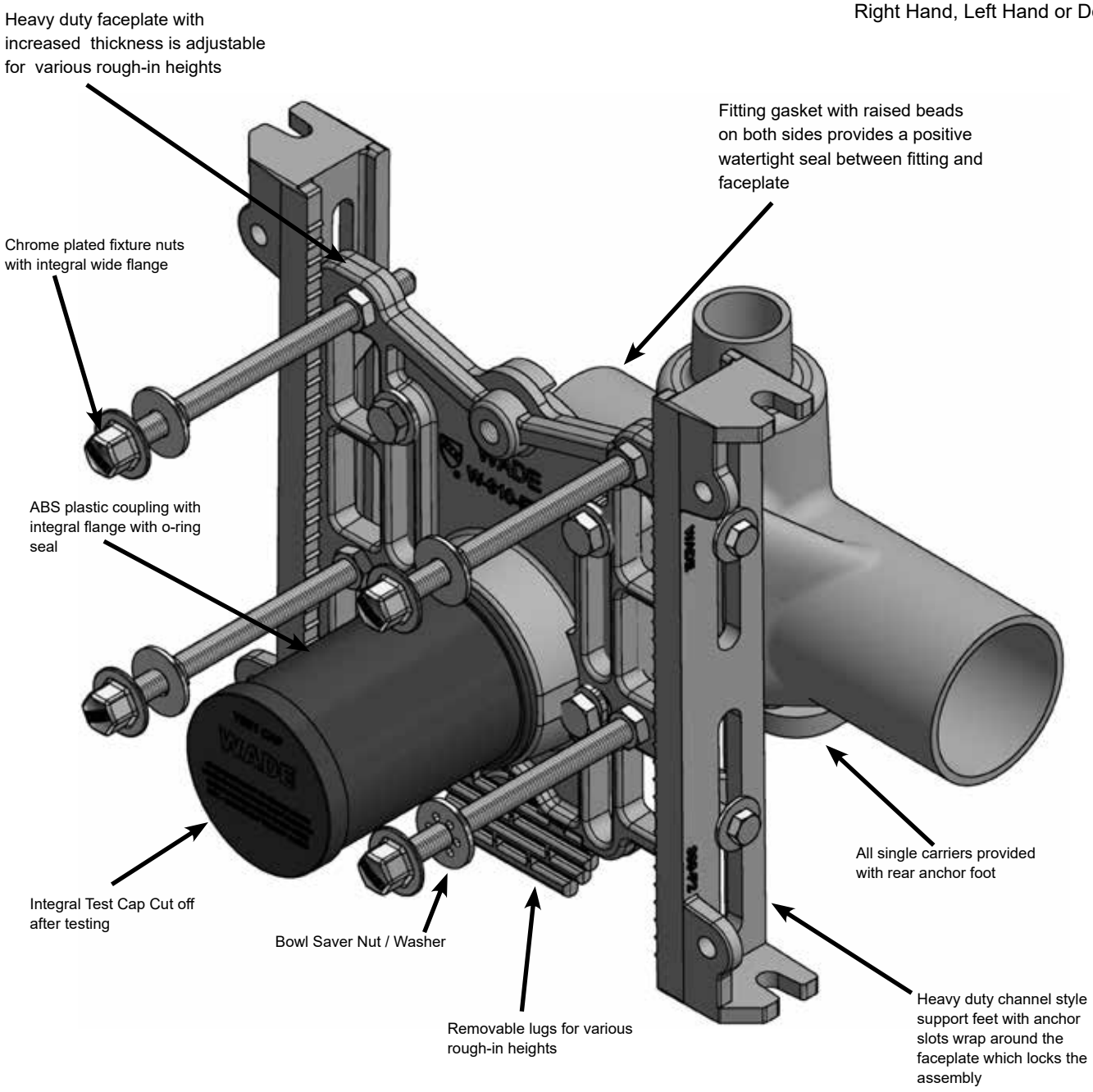
ASME Load Rating—(HD) 500 Lb. / (XH) 750Lb. / (XB) 1000 Lb.

General Product Information

311-PF-NL Adjustable Horizontal Water Closet Carrier (Pre-Fab & BAA)

Carrier fittings available in 3” or 4” pipe sizes (Special Application Fittings are available)

Right Hand, Left Hand or Double



Robust Design for Increased Load Ratings

All Thread O-ring Seal Couplings Optional

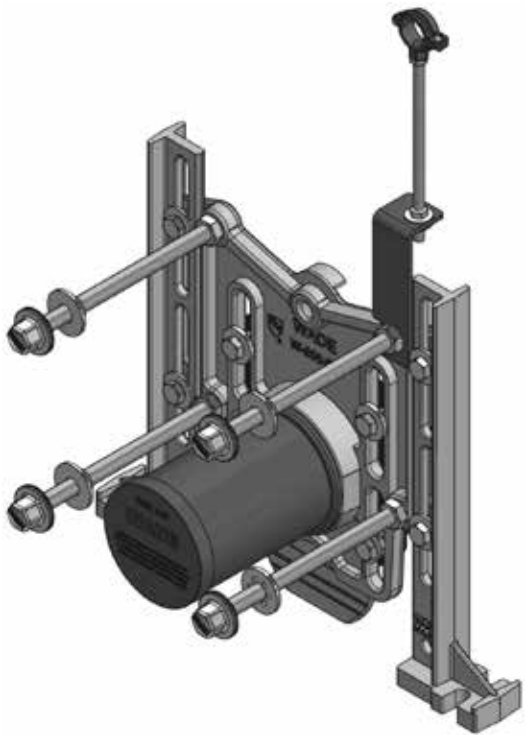
Standard 7” Long Coupling

ASME Load Rating—500 Lb. (4” Dimension from Faceplate to Finish Wall)

AM1 Flush Valve Piping Support Kit

Regularly Furnished: Painted steel bracket with zinc plated hardware and hinged pipe clamp. Fits 1" copper pipe. Connects to upper fixture support rod for precise location of flush valve pipe.

Kit does not include faceplate, coupling package or carrier fitting.

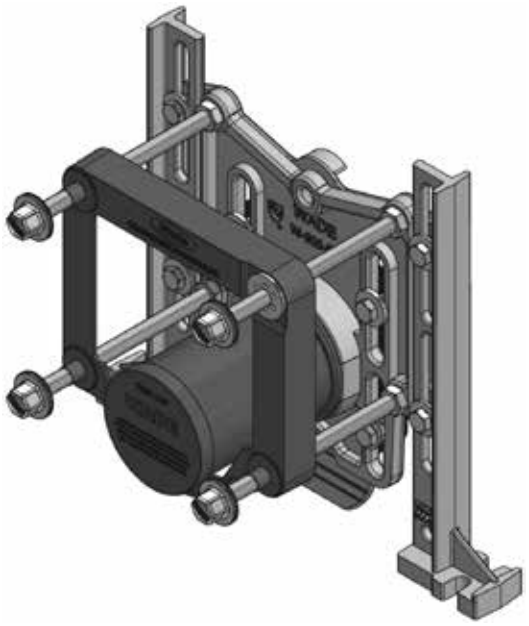


Suffix Options				
Suffix	**Description**		**List Price**	**Wt. Lbs.**
AM1	Flush Valve Support	Sgl.	$ 122.00	1.3
		Dbl.	244.00	2.6

AM21 Flush Frame for Siphon Jet System

Regularly Furnished: ABS plastic finish frame with securing sleeves. Mounts on fixture support studs and is positioned at the finish wall line to provide tile finishers a guide for tiling.

Does not include faceplate, coupling package or carrier fitting.



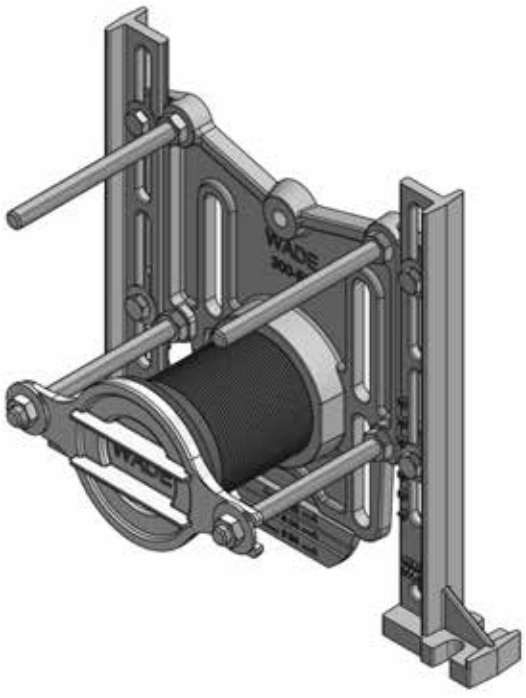
Suffix Options				
Suffix	**Description**		**List Price**	**Wt. Lbs.**
AM21	Tiling Flange	Sgl.	$ 116.00	0.7
		Dbl.	232.00	1.4

AM22 Test Cap

Regularly Furnished: Cast aluminum test cap with neoprene sponge gasket. Mounts directly on the bottom two carrier fixture studs on the same centerline with the closet coupling. It assures a watertight seal at the coupling for system testing. Recommended on optional cast iron couplings (M26). Reusable.

Does not include faceplate, coupling package or carrier fitting.



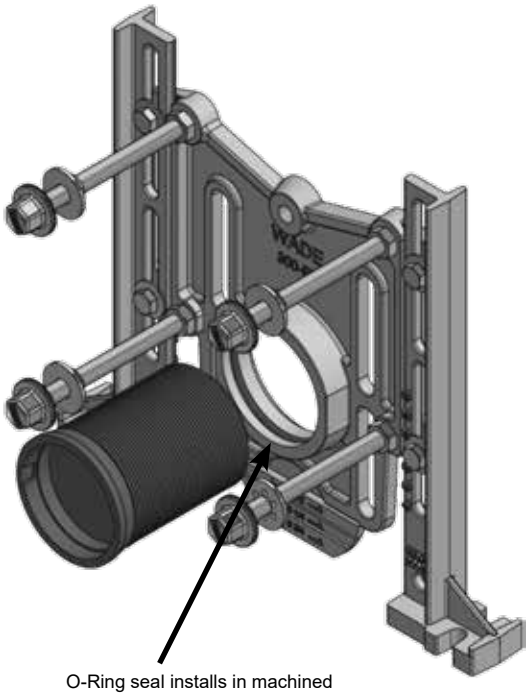


Suffix Options				
Suffix	**Description**		**List Price**	**Wt. Lbs.**
AM22	Test Cap	Sgl.	$ 150.00	4.0
		Dbl.	300.00	8.0

FPO Adjustable All Thread Closet Coupling (ABS) Package

Regularly Furnished: ABS plastic closet all thread coupling with bell end, wrench adjustment lugs, integral knock-out test cap and 4" NPSM straight threaded connection. Includes o-ring, fixture support studs and finish hardware.

Package does not include faceplate or carrier fitting.



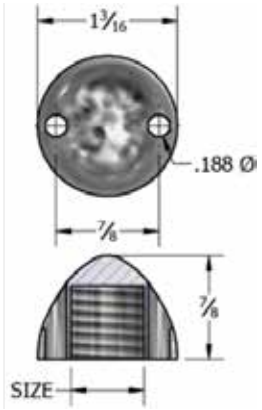
Suffix Options				
Suffix	**Description**		**Add**	**Wt. Lbs.**
FPO	Adjustable All Thread ABS Coupling		N/C	2.0
ECC14	Extended Coupling & Hardware (14" Coupling)	Sgl.	$ 278.00	3.2
		Dbl.	556.00	6.4

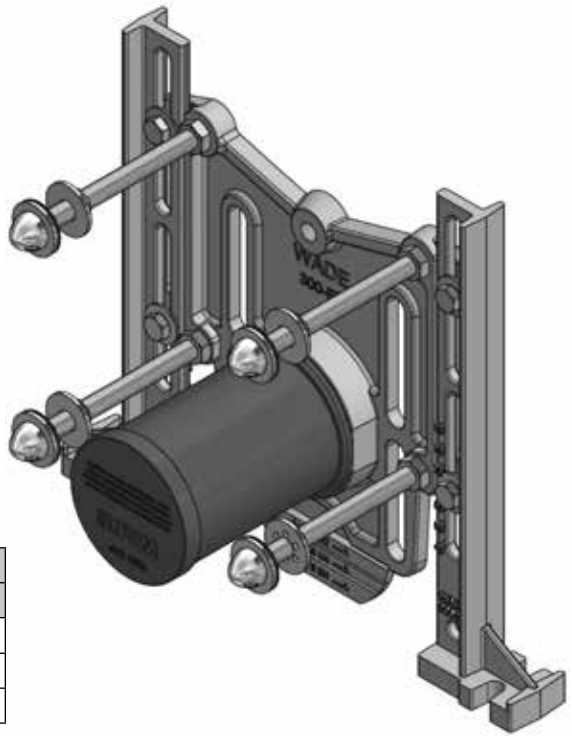
M3 Vandal Proof Cap Nut Kit

Regularly Furnished: Chrome plated bullet spanner type fixture nuts. Replaces the standard hex cap nuts for high security areas such as prisons or mental health institutions. Requires special wrench for installation (M5).



M5 Spanner Wrench



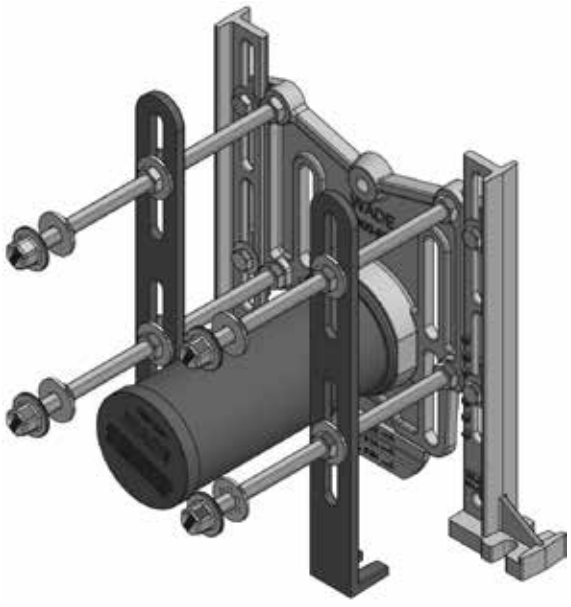


Suffix Options				
Suffix	**Description**		**List Price**	**Wt. Lbs.**
M3	Vandal Proof Cap Nut Kit	Sgl.	$ 185.00	.05
		Dbl.	370.00	1.0
M5	Spanner Wrench		205.00	0.2

M4 Rod Support Feet Kit

Regularly Furnished: Painted cast iron brackets with zinc plated hardware. Fits all horizontal and vertical fixed and adjustable carriers. Secures to fixture support studs with 5/8" hex jam nuts and flat washers. Recommended on all coupling lengths over 7".

Kit does not include faceplate, coupling package or carrier fitting.



Suffix Options				
Suffix	**Description**		**List Price**	**Wt. Lbs.**
M4	Rod Support Feet Kit	Sgl.	$ 439.00	6.6
		Dbl.	878.00	13.2

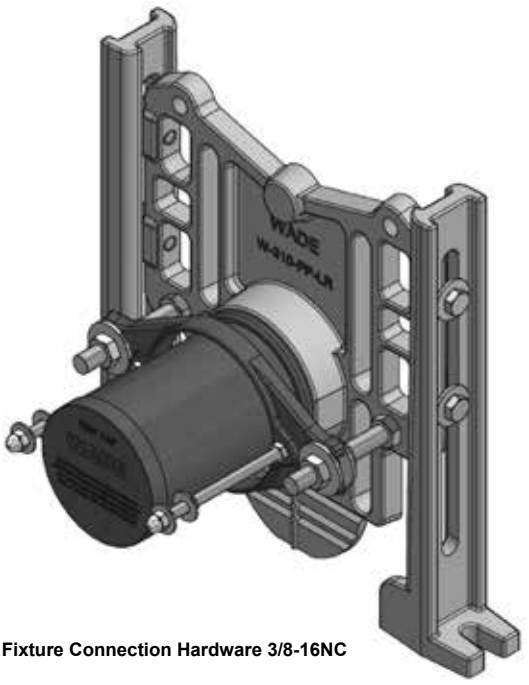
M14 Conversion Kit for Floor Mount Back Outlet Fixtures (Adjustable Vertical & Horizontal)

Regularly Furnished: Painted cast iron yoke with hardware for floor mount back outlet water closets. Works on either horizontal adjustable or vertical adjustable carriers and is recommended for use with (LR) faceplates because of the typical low rough-in requirements for most floor mount back outlet fixtures.

Kit does not include faceplate or carrier fitting.

Suffix Options (w/Standard ABS Coupling)		List Price		Wt. Lbs (Sgl.).
Suffix	**Description**	**Single**	**Double**	
M14/C7	7" Long Flanged ABS Coupling	$ 251.00	$ 502.00	9.1
M14/C11	11" Long Flanged ABS Coupling	251.00	502.00	9.3
M14/C14	14" Long Flanged ABS Coupling	666.00	1,332.00	10.3
M14/C24	24" Long Flanged ABS Coupling	1,419.00	2,838.00	11.3
Suffix Options (w/All Thread ABS Coupling)				
M14/FPO6	6" Long All Thread ABS Coupling	251.00	502.00	9.1
M14/FPO14	14" Long All Thread ABS Coupling	666.00	1,332.00	10.5

Suffix Options (Yoke & Hardware Only)		List Price		Wt. Lbs (Sgl.).
Suffix	**Description**	**Single**	**Double**	
M14	Coupling Not Included	$ 216.00	$ 432.00	7.3



Fixture Connection Hardware 3/8-16NC

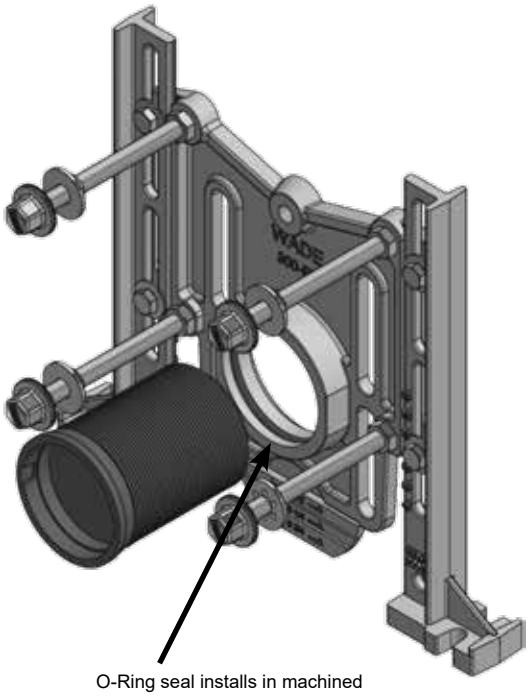
M26 Adjustable Cast Iron Closet Coupling Package

Regularly Furnished: Electrophoretic painted cast iron closet coupling with bell end, wrench adjustment lugs, 4" NPSM straight threaded connection and o-ring seal. Package includes fixture support studs and finish hardware.

Package does not include faceplate or carrier fitting.

Used on all horizontal and vertical adjustable closet carriers

Suffix Options		List Price		Wt. Lbs. (Sgl.)
Suffix	**Description**	**Single**	**Double**	
M26/3	3.5” Long Adjustable C.I. Coupling	$ 466.00	$ 932.00	4.9
M26/4	4” Long Adjustable C.I. Coupling	466.00	932.00	5.3
M26/6	6” Long Adjustable C.I. Coupling	466.00	932.00	7.2
M26/8	8” Long Adjustable C.I. Coupling	466.00	932.00	9.0
M26/10	10” Long Adjustable C.I. Coupling	466.00	932.00	17.5
M26/12	12” Long Adjustable C.I. Coupling	466.00	932.00	19.3
M26/14	14” Long Adjustable C.I. Coupling	743.00	1,486.00	26.0
M26/16	16” Long Adjustable C.I. Coupling	1,018.00	2,036.00	27.9
M26/18	18” Long Adjustable C.I. Coupling	1,295.00	2,590.00	30.9

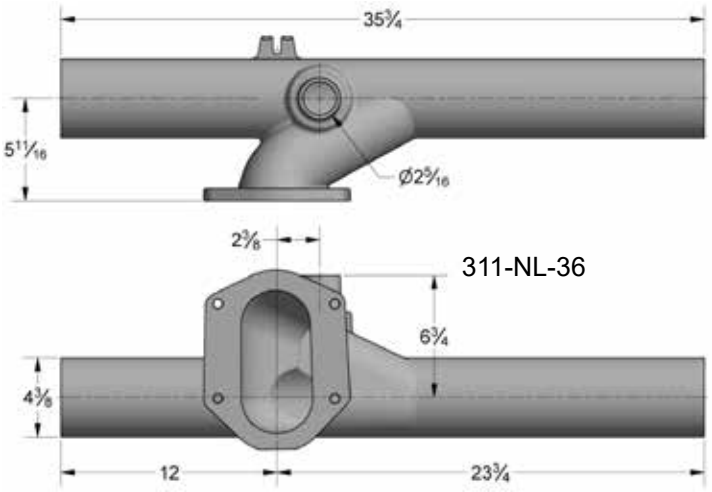


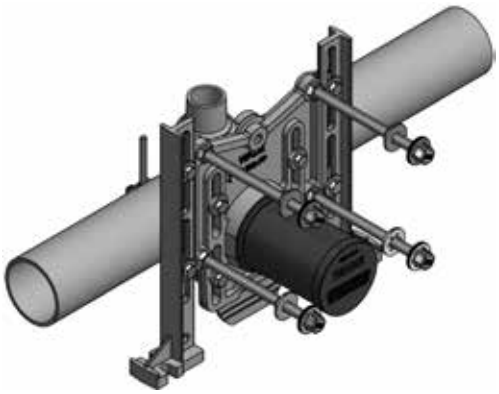
O-Ring seal installs in machined groove in faceplate

Coupling does not include integral test cap. AM22 recommended.

36 Horizontal Extended Barrel Fitting

Regularly Furnished: Painted cast iron horizontal adjustable carrier fitting with extended barrel. Recommended for battery layouts of multiple fixtures to precisely space fixtures on 36" centers. Eliminates cut pipe and additional couplings. Single Left Hand Fitting Illustrated.

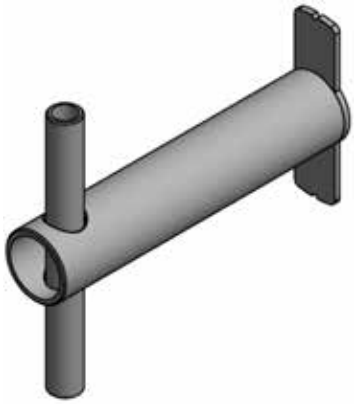




Catalog No.	Description	Add	Wt. Lbs.
311-NR-36	Single Right Hand	$ 520.00	52.0
311-NL-36	Single Left Hand	520.00	52.0
311-ND-36	Double (Back-To-Back)	378.00	65.0

M15 Coupling Adjustment Wrench

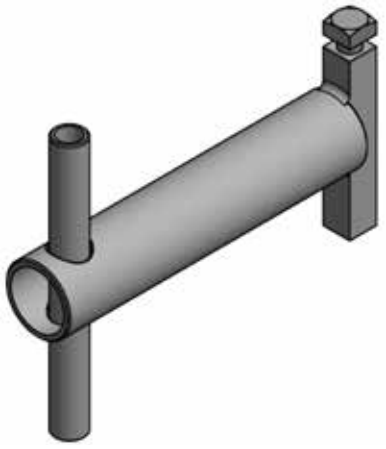
Regularly Furnished: Painted steel coupling wrench. Works on either horizontal adjustable or vertical adjustable carriers and is recommended for installation of standard flanged couplings after they are cut to length. Installs into coupling and engages the lugs in the coupling inside barrel.



Suffix Options			
Suffix	**Description**	**List Price**	**Wt. Lbs.**
M15	Coupling Wrench	$ 150.00	1.5

M17 Coupling Adjustment Wrench

Regularly Furnished: Painted steel coupling wrench. Works on either horizontal adjustable or vertical adjustable carriers and is recommended for making fine adjustments to FPO or M26 style couplings. Installs into coupling and engages the lugs in the coupling horn.

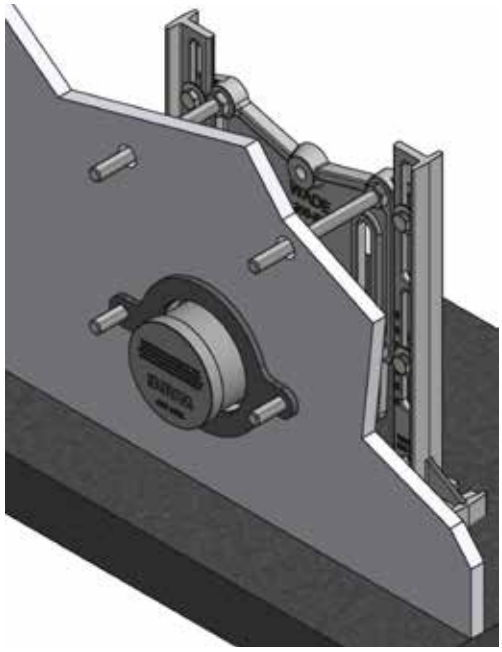


Suffix Options			
Suffix	**Description**	**List Price**	**Wt. Lbs.**
M17	Coupling Wrench	$ 150.00	1.5

M35 Coupling Cut-Off Guide

Regularly Furnished: Painted laser cut steel yoke. Works on either horizontal adjustable or vertical adjustable carriers and is recommended for making square accurate cuts on ABS plastic closet couplings. Installs over coupling and bottom fixture studs after finish wall is installed.

Does not include faceplate, coupling kit or carrier fitting.



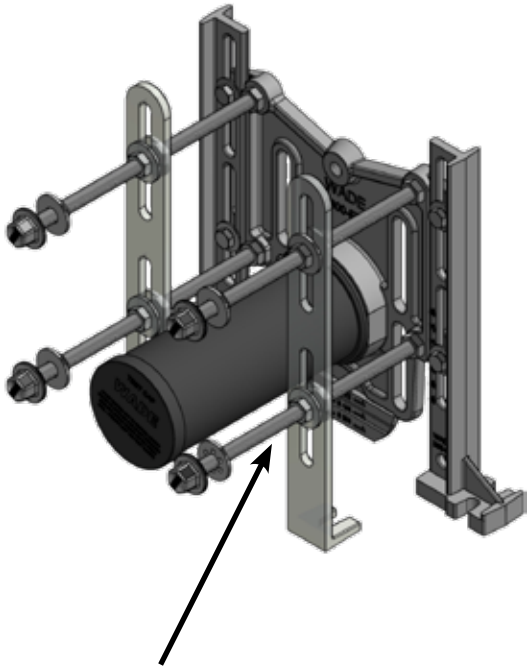
Suffix Options			
Suffix	**Description**	**List Price**	**Wt. Lbs.**
M35	Coupling Cut-Off Guide	$ 349.00	1.9

ECC Coupling Packages with Longer Components

Regularly Furnished: ABS plastic closet couplings and zinc plated all thread studs, hex jam nuts, plated flat washers, plastic fixture washers, bowl saver nut and chrome plated fixture cap nuts with integral flange.

Packages do not include faceplate, carrier fitting or (M4) Rod Support Feet Kit.

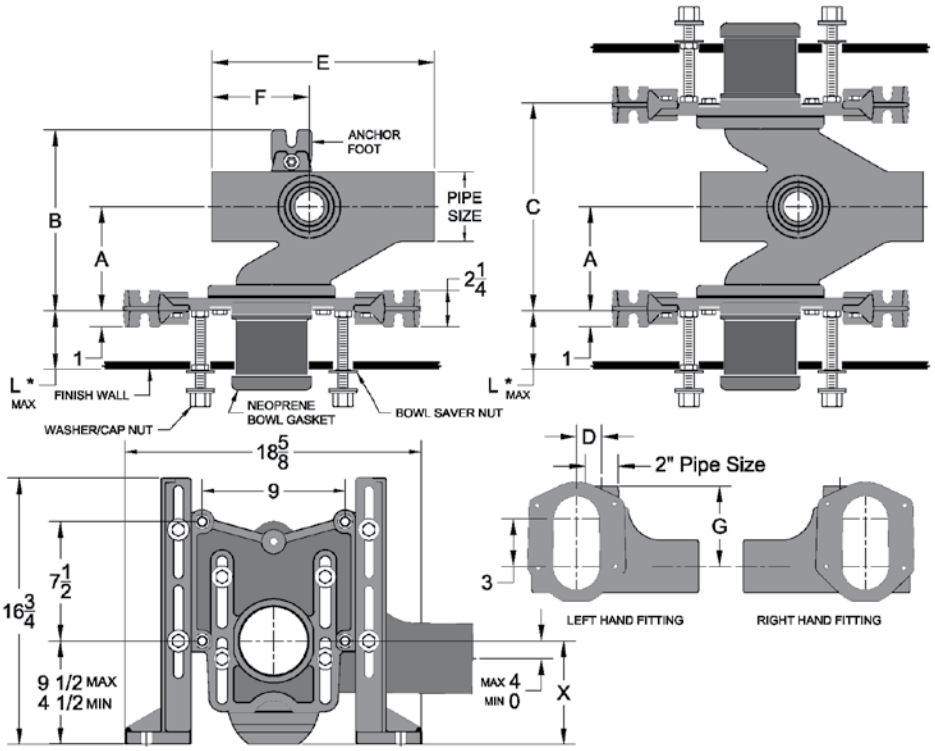
M4 Rod Support Feet Kit is recommended for coupling lengths over 7" long.



Optional Rod Support Kit
(M4 Recommended)

Suffix Options		List Price		Wt. Lbs. (Sgl.)
Suffix	**Description**	**Single**	**Double**	
ECC11	11" Long Adjustable ABS Coupling	$ 466.00	$ 932.00	2.0
ECC14	14" Long Adjustable ABS Coupling	743.00	1,486.00	3.0
ECC24	24" Long Adjustable ABS Coupling	2,125.00	4,250.00	4.0
Suffix Options (w/All Thread ABS Coupling)				
FPO/ECC14	14" Long All Thread ABS Coupling	743.00	1,486.00	3.2

311 Horizontal, Adjustable Water Closet Support (Replaces 300,310,320)



ASME LOAD RATINGS - 300 LB.



311-NL4

Regularly Furnished: Adjustable horizontal siphon jet water closet support provides a rigid system with No-Hub connections. Comes complete with painted cast iron right-hand, left-hand, or double main fitting, 2" vent, adjustable gasketed faceplate, universal floor mounted foot supports, corrosion resistant polymer coupling with integral test cap, fixture studs, trim, and stud protectors. Includes rear anchor tie down and bowl gasket.

Model	Wt. Lbs.	Style	Connection Type	Regularly Furnished	Dimensions						
					A	B	C	D	E	F	G
311-CL4 *	69.4	Left	Hub/Spigot	$2,224.00	6-1/2”	11-3/8”	-	4”	17”	8-1/2”	8”
311-CR4 *	69.4	Right		2,224.00	6-1/2”	11-3/8”	-	4”	17”	8-1/2”	8”
311-CD4 *	117.8	Double		4,161.00	6-1/2”	11-3/8”	13”	4”	17”	8-1/2”	8”
311-NL3	66.4	Left	No-Hub	1,979.00	6”	10-3/8”	-	2-3/8”	14”	6-1/8”	6-1/4”
311-NR3	66.4	Right		1,979.00	6”	10-3/8”	-	2-3/8”	14”	6-1/8”	6-1/4”
311-ND3	106.8	Double		3,647.00	6”	10-3/8”	13”	2-3/8”	14”	6-1/8”	6-1/4”
311-NL4	71.4	Left		2,163.00	6-1/2”	11-3/8”	-	2-3/8”	14”	6-1/8”	6-1/4”
311-NR4	71.4	Right		2,163.00	6-1/2”	11-3/8”	-	2-3/8”	14”	6-1/8”	6-1/4”
311-ND4	111.8	Double		4,050.00	6-1/2”	11-3/8”	13”	2-3/8”	14”	6-1/8”	6-1/4”

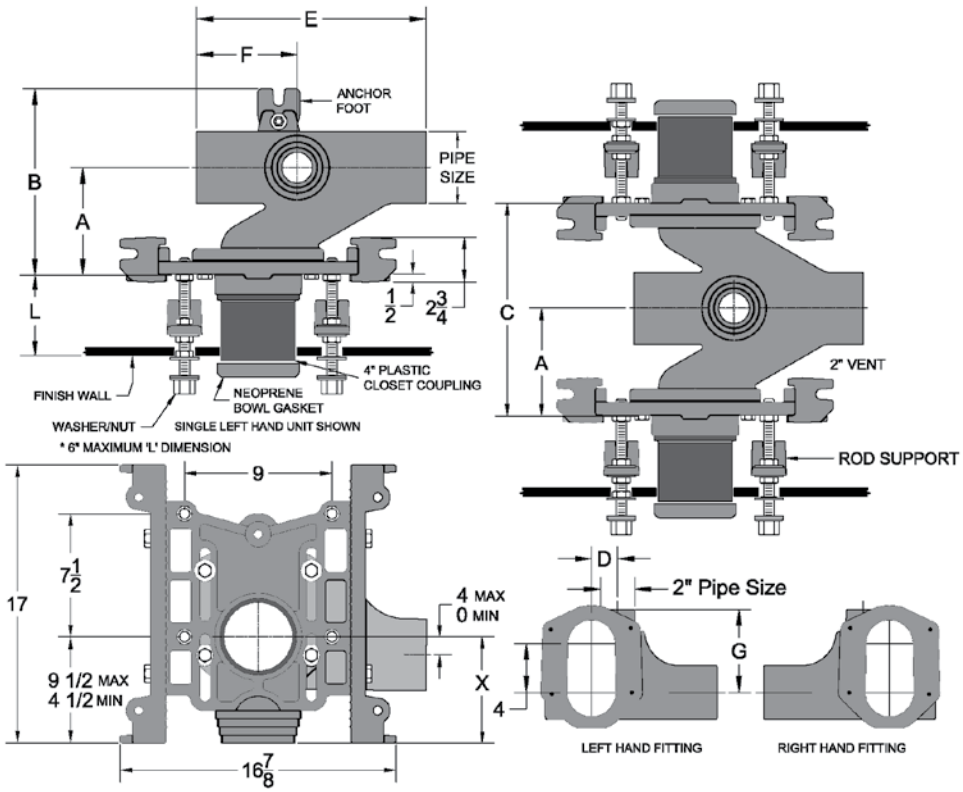
Suffix Options			
Suffix	**Description**		**Add**
AM1	Flush Valve Support	Sgl	$ 122.00
		Dbl	244.00
AM21	Tiling Flange	Sgl	116.00
		Dbl	232.00
ECC11	Extended Coupling & Hardware (11" Coupling)	Sgl.	N/C
		Dbl.	
ECC14	Extended Coupling & Hardware (14" Coupling)	Sgl.	278.00
		Dbl.	556.00
ECC24	Extended Coupling & Hardware (24" Coupling)	Sgl.	1,659.00
		Dbl.	3,318.00
FPO	6" Adj. All Thread ABS Coupling		N/C
FPO/ECC14	14" Adj. All Thread ABS Coupling	Sgl.	278.00
		Dbl.	556.00

Suffix Options			
Suffix	**Description**		**Add**
M3	Vandal Proof Hardware	Sgl	185.00
		Dbl	370.00
M4	Rod Support Feet	Sgl	439.00
		Dbl	878.00
M26	Adjustable Cast Iron Coupling (Up to 12")		N/C
36	36" Extended Barrel* (N/A 3")	Sgl.	520.00
		Dbl.	378.00
Suffix	**Description**		**Deduct**
M14	Floor Mounted, Back Outlet Adapter	Sgl.	(215.00)
		Dbl.	(429.00)
PF	Pre-Fab Faceplate Assembly		N/C

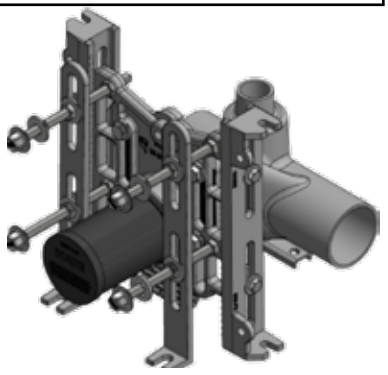
** Dimensions vary from illustration*

FIXTURE SUPPORTS

311HD Horizontal, Adjustable Water Closet Support (Replaces 300,310,320)



ASME LOAD RATINGS - 500 LB.



311HD-NL4

Regularly Furnished: Heavy duty adjustable horizontal siphon jet water closet support provides a rigid system with No-Hub connections. Comes complete with painted cast iron right-hand, left-hand, or double main fitting, 2" vent, adjustable gasketed faceplate, universal floor mounted foot supports, rigid support frames, corrosion resistant polymer coupling with integral test cap, fixture studs, trim, and stud protectors. Includes rear anchor tie down and bowl gasket.

Model	Wt. Lbs.	Orientation	Connection Type	Regularly Furnished	Dimensions						
					A	B	C	D	E	F	G
311HD-NL3	83.1	Left	No-Hub	2,336.00	6"	10-3/8"	-	2-3/8"	14"	6-1/8"	8"
311HD-NR3	83.1	Right		2,336.00	6"	10-3/8"	-	2-3/8"	14"	6-1/8"	8"
311ND-ND3	140.2	Double		4,361.00	6"	10-3/8"	13"	2-3/8"	14"	6-1/8"	8"
311HD-NL4	66.4	Left		2,520.00	6-1/2"	11-3/8"	-	2-3/8"	14"	6-1/8"	6-1/4"
311HD-NR4	88.1	Right		2,520.00	6-1/2"	11-3/8"	-	2-3/8"	14"	6-1/8"	6-1/4"
311HD-ND4	145.2	Double		4,764.00	6-1/2"	11-3/8"	13"	2-3/8"	14"	6-1/8"	6-1/4"

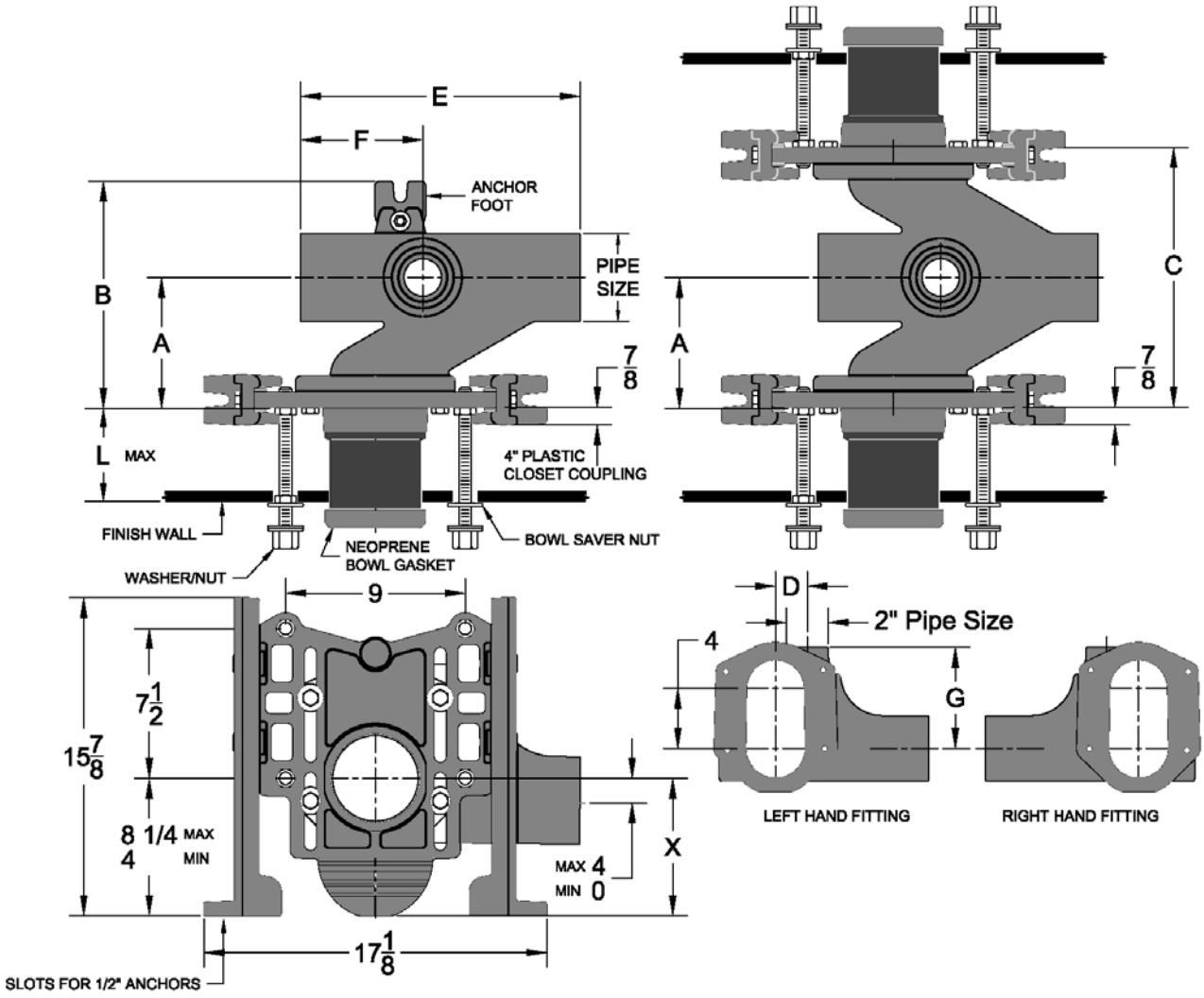
Suffix Options			
Suffix	**Description**		**Add**
AM1	Flush Valve Support	Sgl	$ 122.00
		Dbl	244.00
AM21	Tiling Flange	Sgl	116.00
		Dbl	232.00
FPO	6" Adj. All Thread ABS Coupling		N/C
UA	Urinal Auxiliary Inlet - 2" No-Hub		500.00
UA2T	Urinal Auxiliary Inlet - 2" Female Thread		500.00

Suffix Options			
Suffix	**Description**		**Add**
M3	Vandal Proof Hardware	Sgl	$185.00
		Dbl	370.00
M26	Adjustable Cast Iron Coupling (Up to 12")		N/C
36	36" Extended Barrel* (N/A 3")	Sgl.	520.00
		Dbl.	378.00

** Dimensions vary from illustration*

311LR Adjustable Water Closet Support - Low Rough-In

ASME LOAD RATINGS - 300 LB.

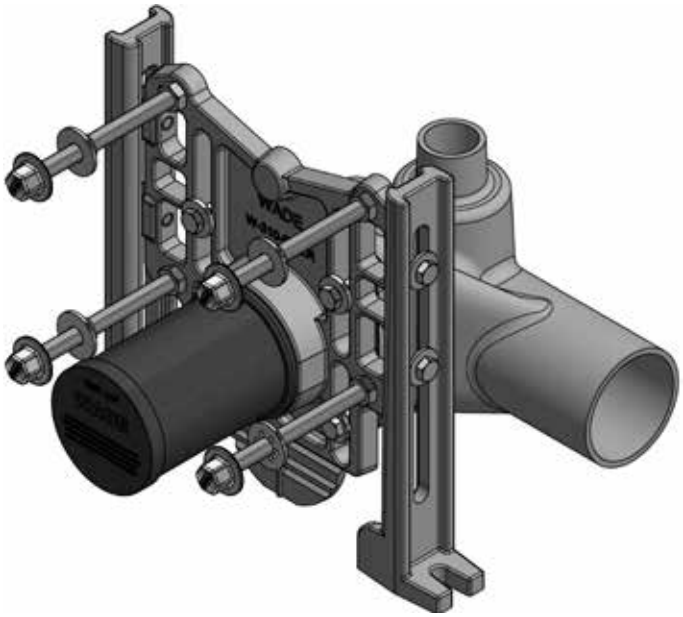


Regularly Furnished: Adjustable horizontal siphon jet water closet support provides a rigid system with No-Hub connections. Comes complete with painted cast iron right-hand, left-hand, or double main fitting, 2" vent, adjustable gasketed faceplate, universal floor mounted foot supports, corrosion resistant polymer coupling with integral test cap, fixture studs, trim, and stud protectors. Includes rear anchor tie down and bowl gasket.

Model	Wt. Lbs.	Orientation	Connection Type	Regularly Furnished	Dimensions						
					A	B	C	D	E	F	G
311LR-NL3	79.0	Left	No-Hub	1,979.00	6”	10-3/8”	-	2-3/8”	14”	6-1/8”	6-1/4”
311LR-NR3	79.0	Right		1,979.00	6”	10-3/8”	-	2-3/8”	14”	6-1/8”	6-1/4”
311ND-ND3	132.0	Double		3,647.00	6”	10-3/8”	13”	2-3/8"	14”	6-1/8”	6-1/4”
311LR-NL4	84.0	Left		2,163.00	6-1/2”	11-3/8”	-	2-3/8”	14”	6-1/8”	6-1/4”
311LR-NR4	84.0	Right		2,163.00	6-1/2”	11-3/8”	-	2-3/8”	14”	6-1/8”	6-1/4”
311LR-ND4	137.0	Double		4,050.00	6-1/2”	11-3/8”	13”	2-3/8”	14”	6-1/8”	6-1/4”

FIXTURE SUPPORTS

311LR Adjustable Water Closet Support - Low Rough-In (300 Lb.)



311LR-NL4

Suffix Options			
Suffix	**Description**		**Add**
HD	Heavy Duty Faceplate (500 lb.) *	Sgl	$357.00
		Dbl	714.00
XH	Extra Heavy Duty Faceplate (750 lb.)	Sgl	2,484.00
		Dbl	4,263.00
XB	Bariatric Faceplate (1,000 lb.)	Sgl.	4,170.00
		Dbl.	8,340.00

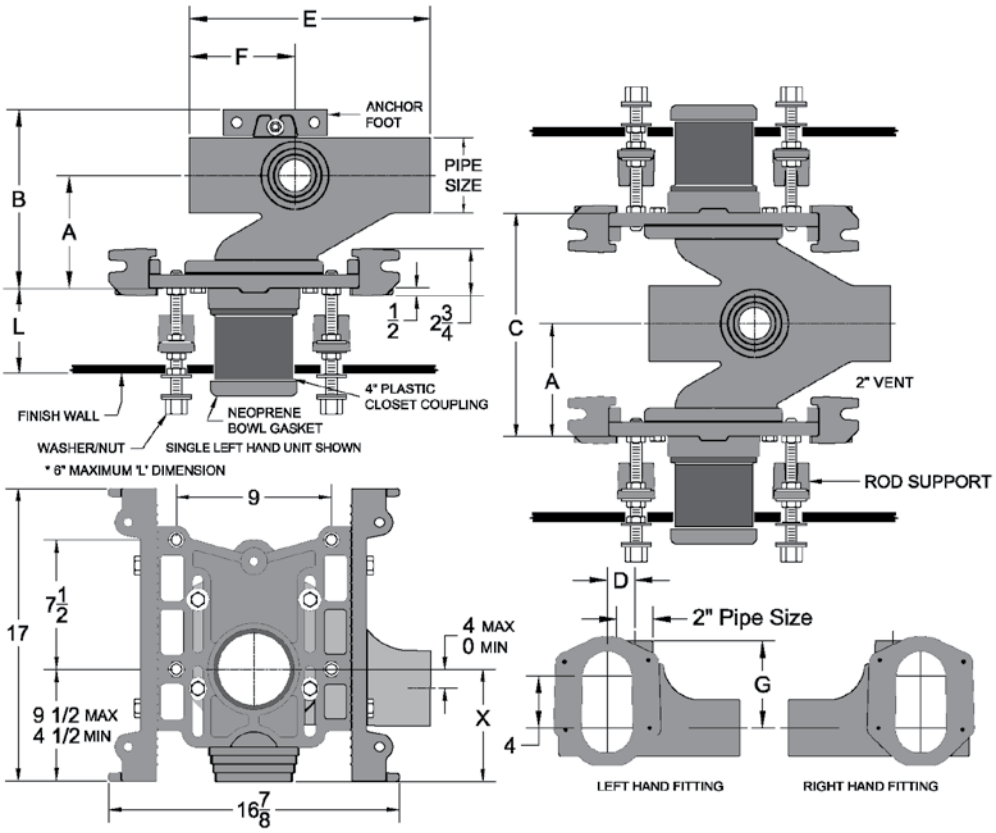
Suffix Options			
Suffix	**Description**		**Add**
AM1	Flush Valve Support	Sgl	$ 122.00
		Dbl	244.00
AM21	Tiling Flange	Sgl	116.00
		Dbl	232.00
ECC11	Extended Coupling & Hardware	Sgl	N/C
	(11" Coupling)	Dbl.	
ECC14	Extended Coupling & Hardware (14' Coupling)	Sgl.	278.00
		Dbl.	556.00
ECC24	Extended Coupling & Hardware (24" Coupling)	Sgl.	1,659.00
		Dbl.	3,318.00
FPO	6" Adjustable All Thread ABS Coupling		N/C
FPO/ECC14	14" Adjustable All Thread ABS Coupling	Sgl.	278.00
		Dbl.	556.00
UA	Urinal Auxiliary Inlet - 2" No-Hub		500.00
UA2T	Urinal Auxiliary Inlet - 2" Female Thread		500.00

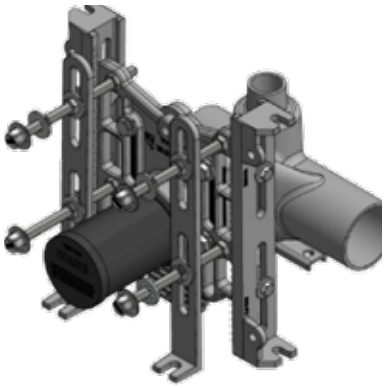
Suffix Options			
Suffix	**Description**		**Add**
M3	Vandal Proof Hardware	Sgl	$185.00
		Dbl	370.00
M26	Adjustable Cast Iron Coupling (Up to 12")		N/C
36	36" Extended Barrel* (N/A 3")	Sgl.	520.00
		Dbl.	378.00

** Dimensions vary from illustration*

311XB Bariatric, Horizontal, Adjustable Water Closet Support

ASME LOAD RATING - 1000 LB.





311XB-NL4

Regularly Furnished: Bariatric adjustable horizontal siphon jet water closet support provides a rigid system with No-Hub connections. Comes complete with painted cast iron right-hand, left-hand, or double main fitting, 2" vent, adjustable gasketed faceplate, universal floor mounted foot supports, rigid support frames, corrosion resistant polymer coupling with integral test cap, fixture studs, trim, and stud protectors. Includes rear anchor tie down and bowl gasket.

Model	Wt. Lbs.	Orientation	Connection Type	Regularly Furnished	Dimensions						
					A	B	C	D	E	F	G
311XB-NL4	88.1	Left	No-Hub	$ 6,333.00	6-1/2"	11-3/8"	-	2-3/8"	14"	6-1/4"	6-1/4"
311XB-NR4	88.1	Right		6,333.00	6-1/2"	11-3/8"	-	2-3/8"	14"	6-1/4"	6-1/4"
311XB-ND4	140.0	Double		12,390.00	6-1/2"	11-3/8"	13"	2-3/8"	14"	6-1/4"	6-1/4"

Suffix Options			
Suffix	Description		Add
AM1	Flush Valve Support	Sgl	$ 122.00
		Dbl	244.00
AM21	Tiling Flange	Sgl	116.00
		Dbl	231.00
FPO	6" Adjustable All Thread ABS Coupling Sgl.		N/C
UA	Urinal Auxiliary Inlet - 2" No-Hub		500.00
UA2T	Urinal Auxiliary Inlet - 2" Female Thread		500.00

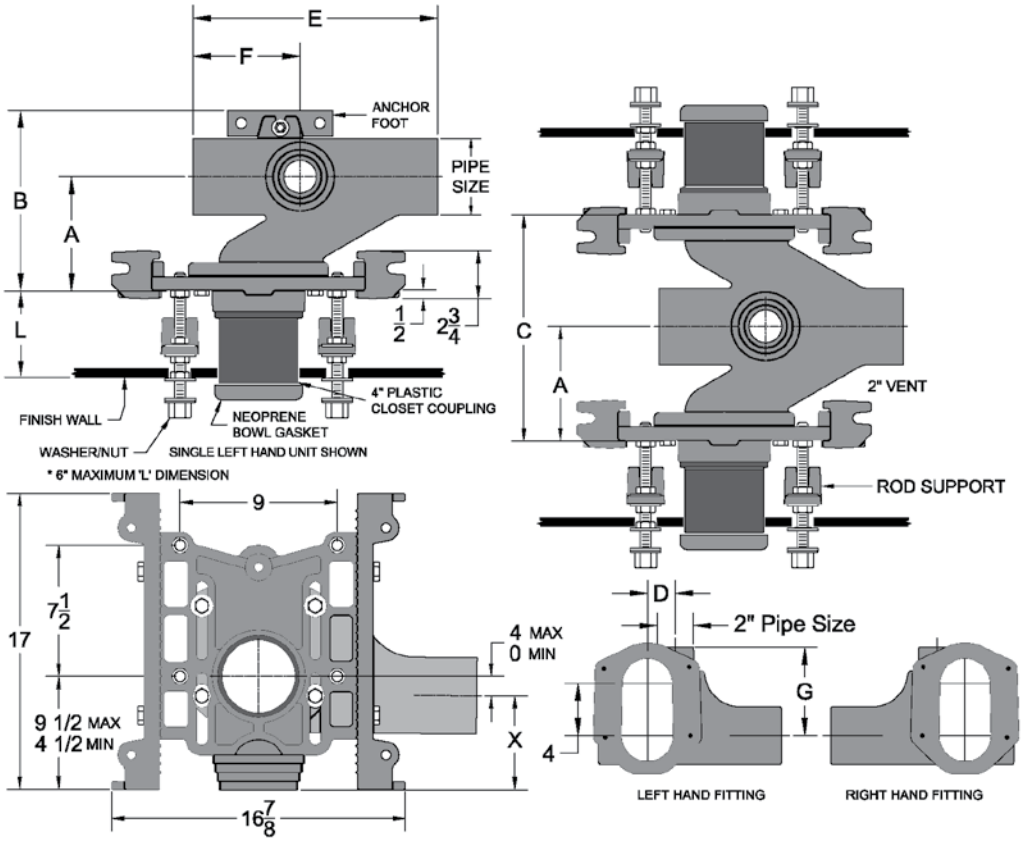
Suffix Options			
Suffix	Description		Add
M3	Vandal Proof Hardware	Sgl	$185.00
		Dbl	370.00
M26	Adjustable Cast Iron Coupling (Up to 12")		N/C
36	36" Extended Barrel* (N/A 3")	Sgl.	520.00
		Dbl.	378.00

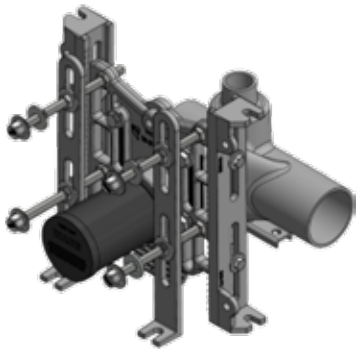
**Dimensions vary from illustration*

FIXTURE SUPPORTS

311XH Extra Heavy, Horizontal Adjustable Water Closet Support

ASME LOAD RATING - 750 LB.





311XH-NL4

Regularly Furnished: Extra heavy duty adjustable horizontal siphon jet water closet support provides a rigid system with No-Hub connections. Comes complete with painted cast iron right-hand, left-hand, or double main fitting, 2" vent, adjustable gasketed faceplate, universal floor mounted foot supports, rigid support frames, corrosion resistant polymer coupling with integral test cap, fixture studs, trim, and stud protectors. Includes rear anchor tie down and bowl gasket.

Model	Wt. Lbs.	Orientation	Connection Type	Regularly Furnished	Dimensions						
					A	B	C	D	E	F	G
311XH-NL4	88.1	Left	No-Hub	$ 4,647.00	6-1/2"	11-3/8"	-	2-3/8"	14"	6-1/8"	6-1/4"
311XH-NR4	88.1	Right		4,647.00	6-1/2"	11-3/8"	-	2-3/8"	14"	6-1/8"	6-1/4"
311XH-ND4	140.2	Double		8,313.00	6-1/2"	11-3/8"	13"	2-3/8"	14"	6-1/8"	6-1/4"

Suffix Options			
Suffix	Description		Add
AM1	Flush Valve Support	Sgl	$ 122.00
		Dbl	244.00
AM21	Tiling Flange	Sgl	116.00
		Dbl	232.00
FPO	6" Adjustable All Thread ABS Coupling Sgl.		N/C
UA	Urinal Auxiliary Inlet - 2" No-Hub		500.00
UA2T	Urinal Auxiliary Inlet - 2" Female Thread		500.00

Suffix Options			
Suffix	Description		Add
M3	Vandal Proof Hardware	Sgl	$185.00
		Dbl	370.00
M26	Adjustable Cast Iron Coupling (Up to 12")		N/C
36	36" Extended Barrel* (N/A 3")	Sgl.	520.00
		Dbl.	378.00

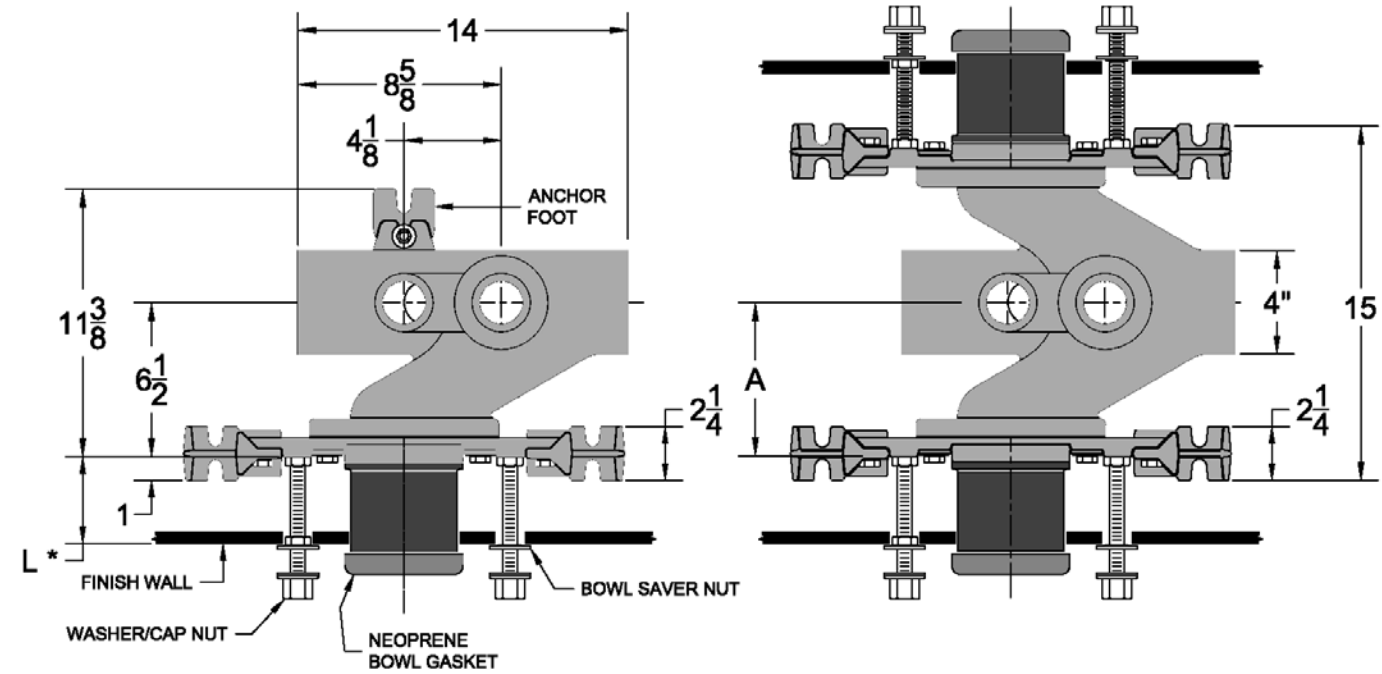
**Dimensions vary from illustration*

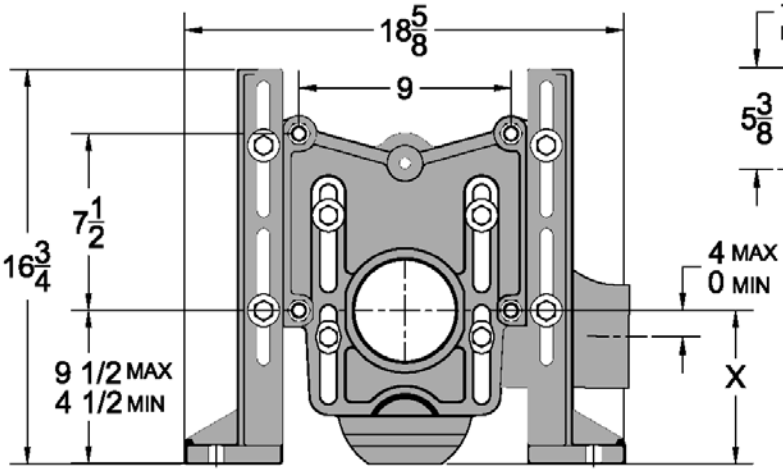
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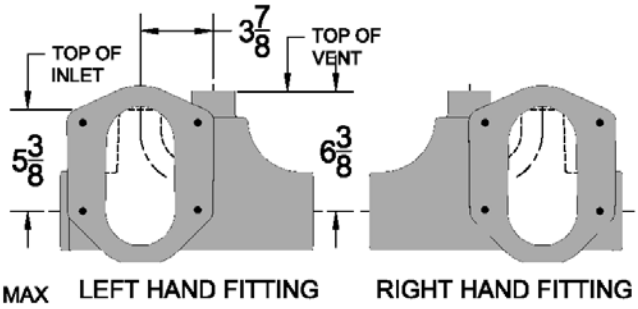
FIXTURE SUPPORTS

311UA Adjustable Water Closet Support

ASME LOAD RATING - 300 LB.







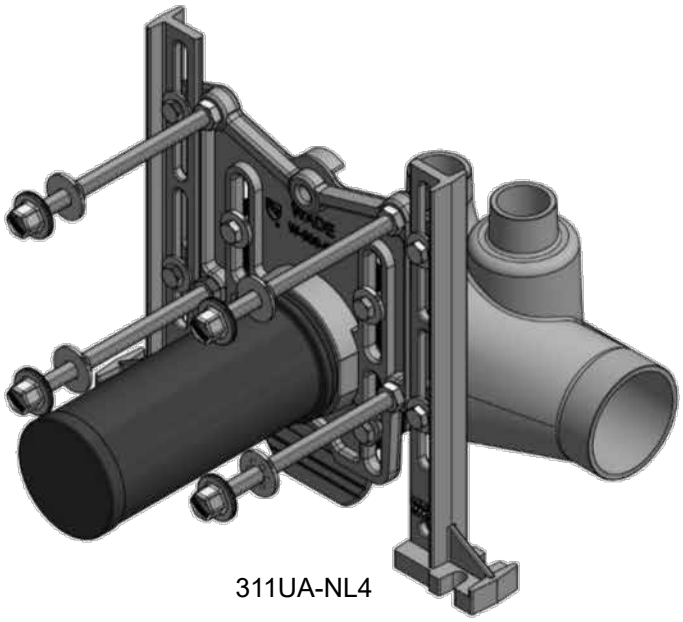
Regularly Furnished: Adjustable horizontal siphon jet water closet support provides a rigid system with No-Hub connections. Comes complete with painted cast iron right-hand, left-hand, or double main fitting, 2" vent, 2" auxiliary urinal inlet, adjustable gasketed faceplate, universal floor mounted foot supports, corrosion resistant polymer coupling with integral test cap, fixture studs, trim, and stud protectors. Includes rear anchor tie down and bowl gasket. Allows rough-in for batteries of fixtures with urinals opposite standard fixtures.

Model	Wt. Lbs.	Orientation	Connection Type	Regularly Furnished	Dimension
					A
311UA-NL4	75.0	Left	No-Hub	$ 2,663.00	6-1/2"
311UA-NR4	75.0	Right		2,663.00	6-1/2"
311UA-ND4	130.0	Double		4,550.00	6-1/2"

**Dimensions vary from illustration*

FIXTURE SUPPORTS

311UA Adjustable Water Closet Support



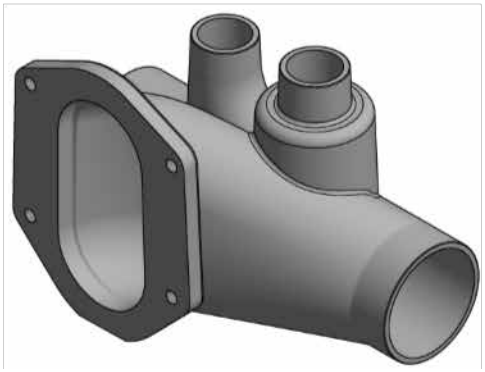
311UA-NL4



VA2



VA3



WP311UA-NL4 Fitting Only

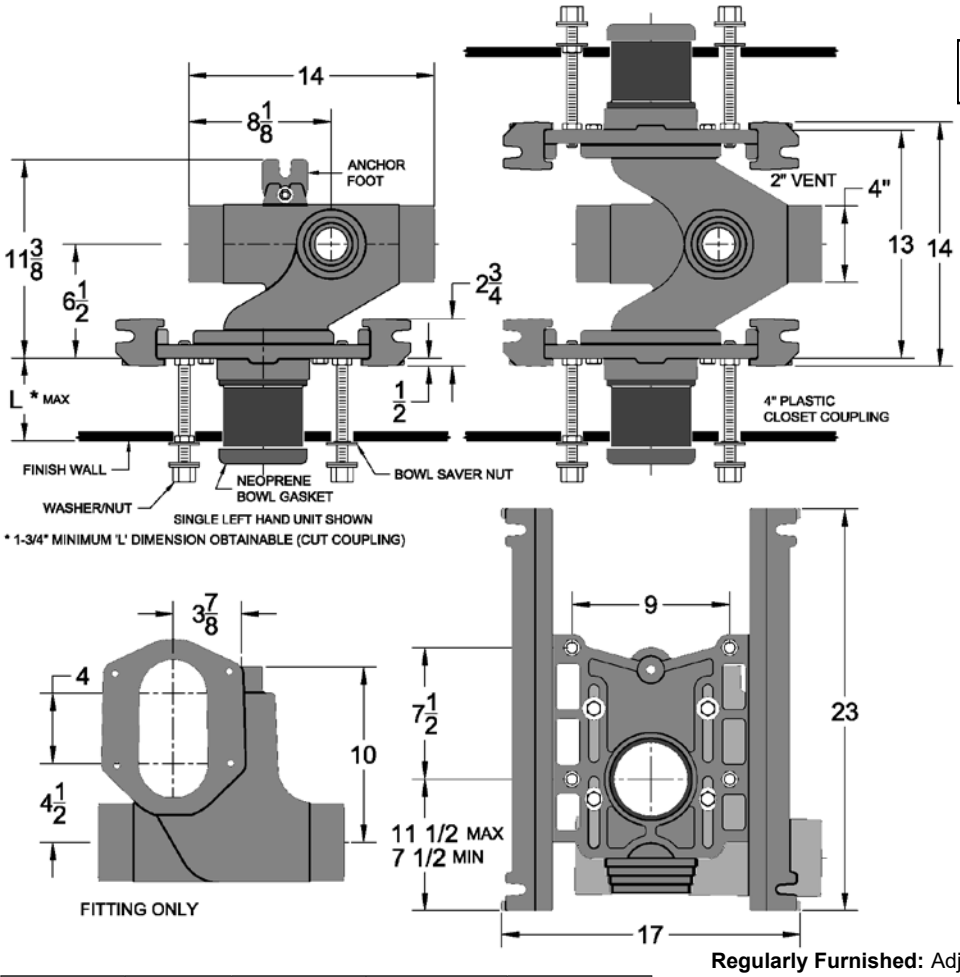
Suffix Options			
Suffix	**Description**		**Add**
HD	Heavy Duty Faceplate (500 lb.) *	Sgl	$ 357.00
		Dbl	714.00
XH	Extra Heavy Duty Faceplate (750 lb.)	Sgl	2,484.00
		Dbl	4,263.00
XB	Bariatric Faceplate (1,000 lb.)	Sgl.	4,170.00
		Dbl.	8,340.00
LR	Low Rough Faceplate (300 Lb.)		N/C
PF	Pre-Fab Faceplate Assembly		N/C
VA2	Vent Adapter Fitting (2x2x2x2)		448.00
VA3	Vent Adapter Fitting (3x3x2x2)		448.00

Suffix Options			
Suffix	**Description**		**Add**
AM1	Flush Valve Support	Sgl	$ 122.00
		Dbl	244.00
AM21	Tiling Flange	Sgl	116.00
		Dbl	232.00
ECC11	Extended Coupling & Hardware (11" Coupling)	Sgl.	N/C
		Dbl.	
ECC14	Extended Coupling & Hardware (14" Coupling)	Sgl.	278.00
		Dbl.	556.00
ECC24	Extended Coupling & Hardware (24" Coupling)	Sgl.	1,659.00
		Dbl.	3,318.00
FPO	6" Adj. All Thread ABS Coupling		N/C
FPO/ECC14	14" Adj. All Thread ABS Coupling	Sgl.	278.00
		Dbl.	556.00

Suffix Options			
Suffix	**Description**		**Add**
M3	Vandal Proof Hardware	Sgl	$185.00
		Dbl	370.00
M4	Rod Supported Feet	Sgl.	439.00
		Dbl.	878.00
M26	Adjustable Cast Iron Coupling (Up to 12").		N/C
Suffix	**Description**		**Deduct**
M14	Floor Mounted, Back Outlet Adapter	Sgl	(215.00)
		Dbl	(429.00)

**Dimensions vary from illustration*

311H Horizontal, Adjustable Water Closet Support - High Rough (300 Lb.)



ASME LOAD RATING - 300 LB.

Model	Wt. Lbs.	Orientation	Connection Type	Regularly Furnished
311H-NL4	80.0	Left	No-Hub	$ 2,163.00
311H-NR4	80.0	Right		2,163.00
311H-ND4	140.0	Double		4,050.00

Regularly Furnished: Adjustable horizontal siphon jet water closet support provides a rigid system with No-Hub connections. Comes complete with painted cast iron right-hand, left-hand, or double main fitting, 2" vent, adjustable gasketed faceplate, universal floor mounted foot supports, corrosion resistant polymer coupling with integral test cap, fixture studs, trim, and stud protectors. Includes rear anchor tie down and bowl gasket. Allows handicap rough-in for batteries of fixtures with handicap between standard fixtures.

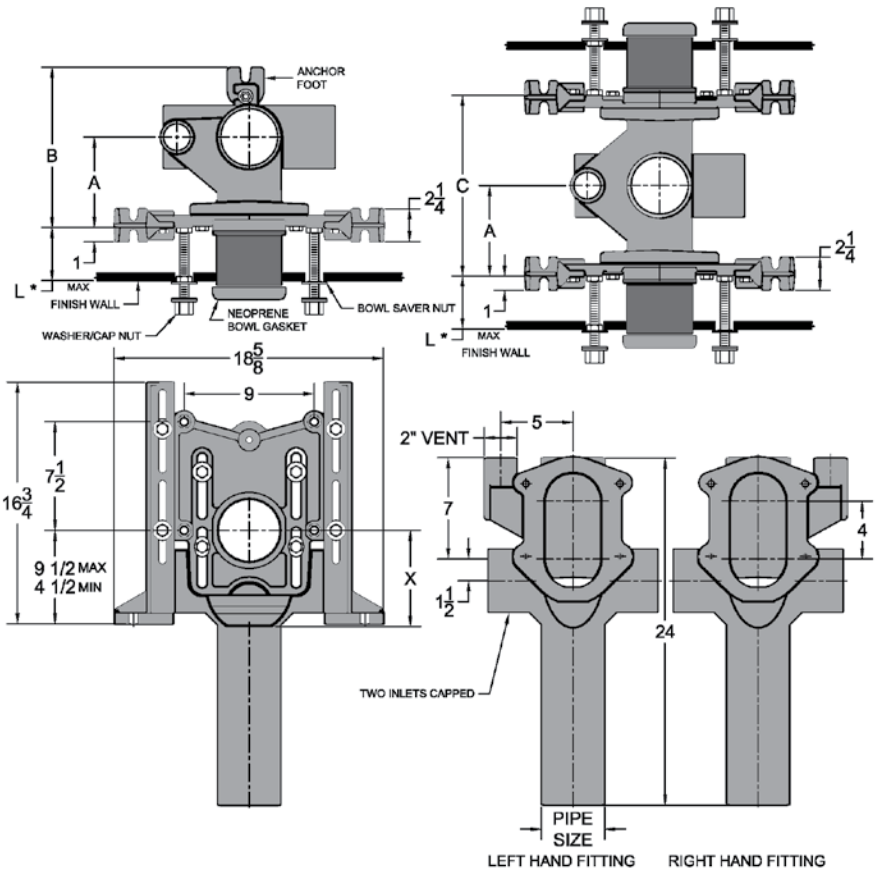
Suffix Options			
Suffix	**Description**		**Add**
AM1	Flush Valve Support	Sgl	$ 122.00
		Dbl	244.00
AM21	Tiling Flange	Sgl	116.00
		Dbl	232.00
ECC11	Extended Coupling & Hardware (11" Coupling)	Sgl.	N/C
		Dbl.	
ECC14	Extended Coupling & Hardware (14" Coupling)	Sgl.	278.00
		Dbl.	556.00
ECC24	Extended Coupling & Hardware (24" Coupling)	Sgl.	1,659.00
		Dbl.	3,318.00
FPO	6" Adj. All Thread ABS Coupling		N/C
FPO/ECC14	14" Adj. All Thread ABS Coupling	Sgl.	278.00
		Dbl.	556.00

Suffix Options			
Suffix	**Description**		**Add**
M3	Vandal Proof Hardware	Sgl	$185.00
		Dbl	370.00
M4	Rod Support Feet	Sgl.	439.00
		Dbl.	878.00
M26	Adjustable Cast Iron Coupling (Up to 12").		N/C

**Dimensions vary from illustration*

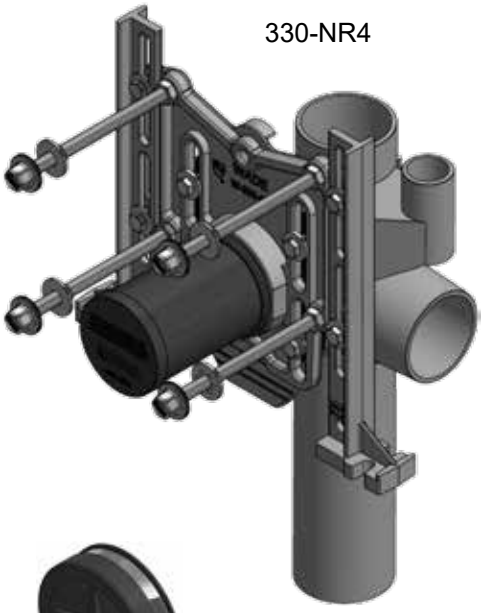
FIXTURE SUPPORTS

330 Vertical, Adjustable Water Closet Support (No-Hub)



ASME LOAD RATING - 300 LB.

330-NR4





Assembly includes (2) No-Hub Caps for Blanking Side Inlets.

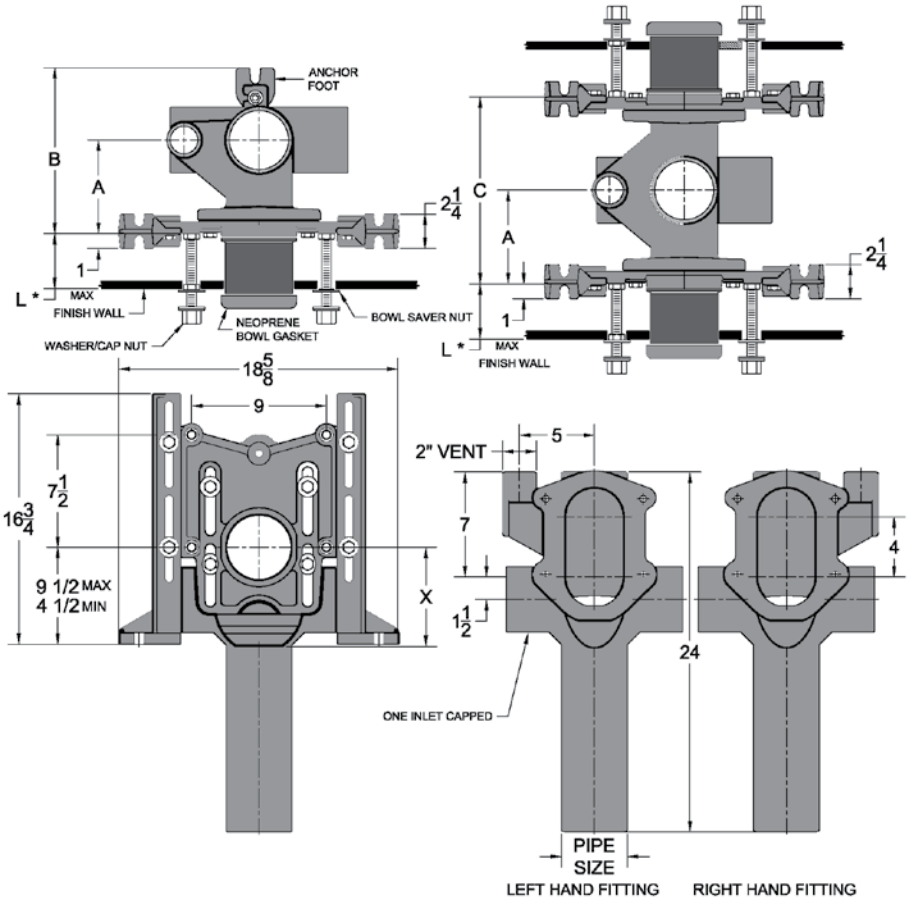
Regularly Furnished: Adjustable vertical siphon jet water closet support provides a rigid system with No-Hub connections. Comes complete with painted cast iron right-hand, left-hand, or double main fitting, 2" vent, adjustable gasketed faceplate, universal floor mounted foot supports, corrosion resistant polymer coupling with integral test cap, fixture studs, trim, and stud protectors. Includes rear anchor tie down and bowl gasket.

Model	Wt. Lbs.	Style	Connection Type	Regularly Furnished	Dimensions		
					A	B	C
330-NR4	92.3	Single RH	No-Hub	$ 2,452.00	6-1/2"	11-5/8"	-
330-NL4	92.3	Single LH		2,452.00	6-1/2"	11-5/8"	-
330-ND4	154.6	Double		4,338.00	6-1/2"	11-5/8"	13"

Suffix Options			
Suffix	**Description**		**Add**
AM1	Flush Valve Support	Sgl	$ 122.00
		Dbl	244.00
AM21	Tiling Flange	Sgl	116.00
		Dbl	231.00
ECC11	Extended Coupling & Hardware (11" Coupling)	Sgl.	N/C
		Dbl.	
ECC14	Extended Coupling & Hardware (14" Coupling)	Sgl.	278.00
		Dbl.	555.00
ECC24	Extended Coupling & Hardware (24" Coupling)	Sgl.	1,659.00
		Dbl.	3,318.00
FPO	6" Adj. All Thread ABS Coupling		N/C
FPO/ECC14	14" Adj. All Thread ABS Coupling	Sgl.	278.00
		Dbl.	555.00

Suffix Options			
Suffix	**Description**		**Add**
M3	Vandal Proof Hardware	Sgl	$185.00
		Dbl	370.00
M4	Rod Support Feet	Sgl.	439.00
		Dbl.	878.00
M26	Adjustable Cast Iron Coupling (Up to 12").		N/C
Suffix	**Description**		**Deduct**
M14	Floor Mounted, Back Outlet Adapter	Sgl	(215.00)
		Dbl	(429.00)
PF	Pre-Fab Faceplace Assembly		N/C

330-A1 Vertical, Adjustable Water Closet Support (No-Hub)



ASME LOAD RATING - 300 LB.

330-NR44-A1





Assembly includes (2) No-Hub Caps for Blanking Side Inlets.

Regularly Furnished: Adjustable vertical siphon jet water closet support provides a rigid system with No-Hub connections. Comes complete with painted cast iron right-hand, left-hand, or double main fitting, 2" vent, adjustable gasketed faceplate, universal floor mounted foot supports, corrosion resistant polymer coupling with integral test cap, fixture studs, trim, and stud protectors. Includes rear anchor tie down and bowl gasket.

Model	Wt. Lbs.	Style	Side Inlet Location	Connection Type	Regularly Furnished	Dimensions		
						A	B	C
330-NR44-A1	92.3	Sgl. RH (1 Inlet)	Reversible	No-Hub	$2,874.00	6-1/2"	11-5/8"	-
330-NL44-A1	92.3	Sgl. LH (1 Inlet)	Reversible		2,874.00	6-1/2"	-	-
330-ND44-A1	154.6	Dbl. (1 Inlet)	Reversible		4,745.00	6-1/2"	-	13"

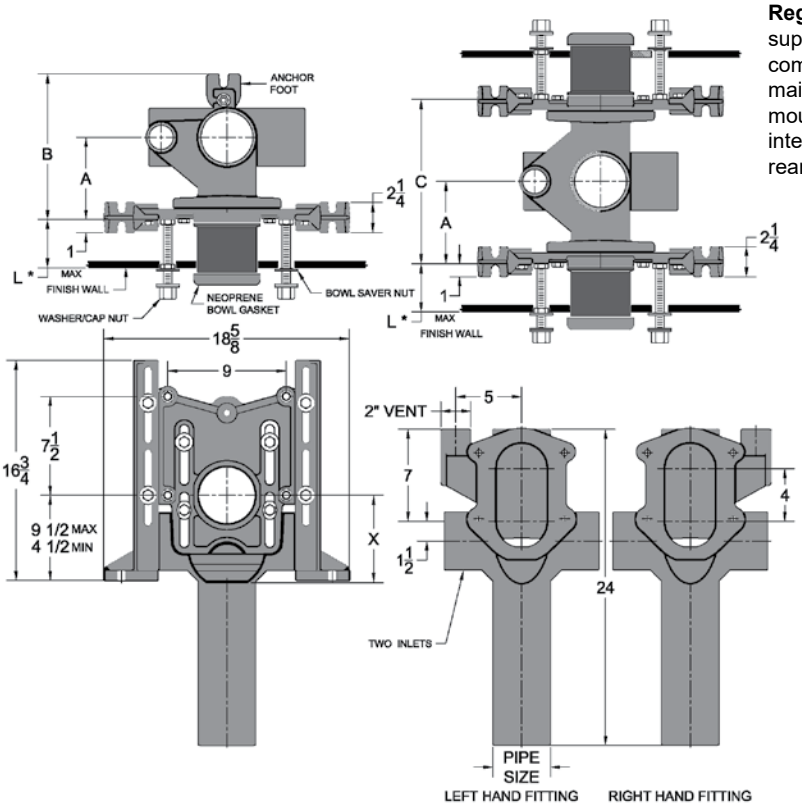
Suffix Options			
Suffix	**Description**		**Add**
AM1	Flush Valve Support	Sgl	$ 122.00
		Dbl	244.00
AM21	Tiling Flange	Sgl	116.00
		Dbl	231.00
ECC11	Extended Coupling & Hardware (11" Coupling)	Sgl.	N/C
		Dbl.	
ECC14	Extended Coupling & Hardware (14" Coupling)	Sgl.	278.00
		Dbl.	555.00
ECC24	Extended Coupling & Hardware (24" Coupling)	Sgl.	1,659.00
		Dbl.	3,318.00
FPO	6" Adj. All Thread ABS Coupling		N/C
FPO/ECC14	14" Adj. All Thread ABS Coupling	Sgl.	278.00
		Dbl.	555.00

Suffix Options			
Suffix	**Description**		**Add**
M3	Vandal Proof Hardware	Sgl	$185.00
		Dbl	370.00
M4	Rod Support Feet	Sgl.	439.00
		Dbl.	878.00
M26	Adjustable Cast Iron Coupling (Up to 12").		N/C
Suffix	**Description**		**Deduct**
M14	Floor Mounted, Back Outlet Adapter	Sgl	(215.00)
		Dbl	(429.00)
PF	Pre-Fab Faceplace Assembly		N/C

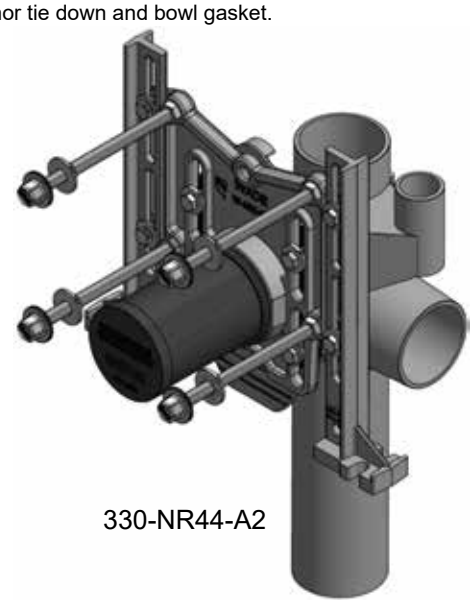
**Dimensions vary from illustration*

FIXTURE SUPPORTS

330-A2 Vertical, Adjustable Water Closet Support (No-Hub)



Regularly Furnished: Adjustable vertical siphon jet water closet support provides a rigid system with No-Hub connections. Comes complete with painted cast iron right-hand, left-hand, or double main fitting, 2" vent, adjustable gasketed faceplate, universal floor mounted foot supports, corrosion resistant polymer coupling with integral test cap, fixture studs, trim, and stud protectors. Includes rear anchor tie down and bowl gasket.



330-NR44-A2

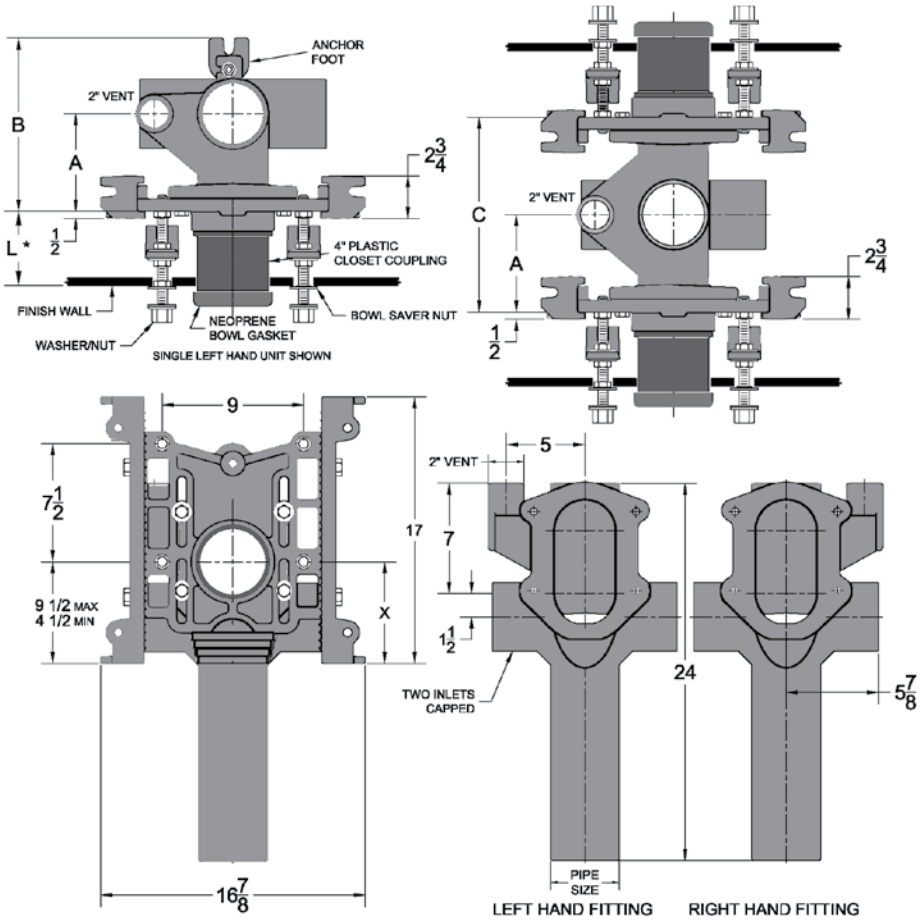
Model	Wt. Lbs.	Style	Side Inlet Location	Connection Type	Regularly Furnished	Dimensions		
						A	B	C
330-NR44-A2	92.3	Sgl. RH (2 Inlet)	Dual	No-Hub	$3,292.00	6-1/2"	11-5/8"	-
330-NL44-A2	92.3	Sgl. LH (2 Inlet)	Dual		3,292.00	6-1/2"	-	-
330-ND44-A2	154.6	Dbl. (2 Inlet)	Dual		5,164.00	6-1/2"	-	13"

Suffix Options			
Suffix	**Description**		**Add**
AM1	Flush Valve Support	Sgl	$ 122.00
		Dbl	244.00
AM21	Tiling Flange	Sgl	116.00
		Dbl	231.00
ECC11	Extended Coupling & Hardware (11" Coupling)	Sgl.	N/C
		Dbl.	
ECC14	Extended Coupling & Hardware (14" Coupling)	Sgl.	278.00
		Dbl.	555.00
ECC24	Extended Coupling & Hardware (24" Coupling)	Sgl.	1,659.00
		Dbl.	3,318.00
FPO	6" Adj. All Thread ABS Coupling		N/C
FPO/ECC14	14" Adj. All Thread ABS Coupling	Sgl.	278.00
		Dbl.	555.00

ASME LOAD RATING - 300 LB.

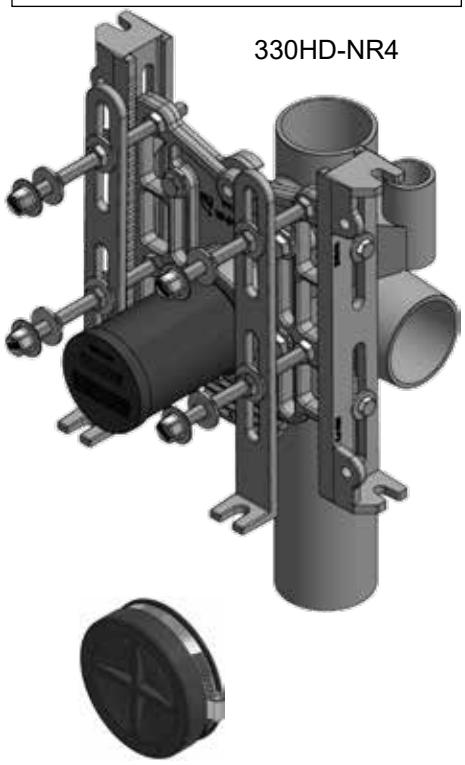
Suffix Options			
Suffix	**Description**		**Add**
M3	Vandal Proof Hardware	Sgl	$185.00
		Dbl	370.00
M4	Rod Support Feet	Sgl.	439.00
		Dbl.	878.00
M26	Adjustable Cast Iron Coupling (Up to 12").		N/C
Suffix	**Description**		**Deduct**
M14	Floor Mounted, Back Outlet Adapter	Sgl	(215.00)
		Dbl	(429.00)
PF	Pre-Fab Faceplace Assembly		N/C

330HD Vertical, Adjustable Water Closet Support (No-Hub)



ASME LOAD RATING - 500 LB.

330HD-NR4



Assembly includes (2) No-Hub Caps for Blanking Side Inlets.

Regularly Furnished: Heavy duty adjustable vertical siphon jet water closet support provides a rigid system with No-Hub connections. Comes complete with painted cast iron right-hand, left-hand, or double main fitting, 2" vent, adjustable gasketed faceplate, universal floor mounted foot supports, rigid support frames, corrosion resistant polymer coupling with integral test cap, fixture studs, trim, and stud protectors. Includes rear anchor tie down and bowl gasket.

Model	Wt. Lbs.	Style	Connection Type	Regularly Furnished	Dimensions		
					A	B	C
330HD-NR4	99.7	SGL RH	No-Hub	$ 2,809.00	6-1/2"	11-5/8"	-
330HD-NL4	99.7	SGL LH		2,809.00	6-1/2"	-	-
330HD-ND4	159.2	DBL		5,053.00	6-1/2"	-	13"

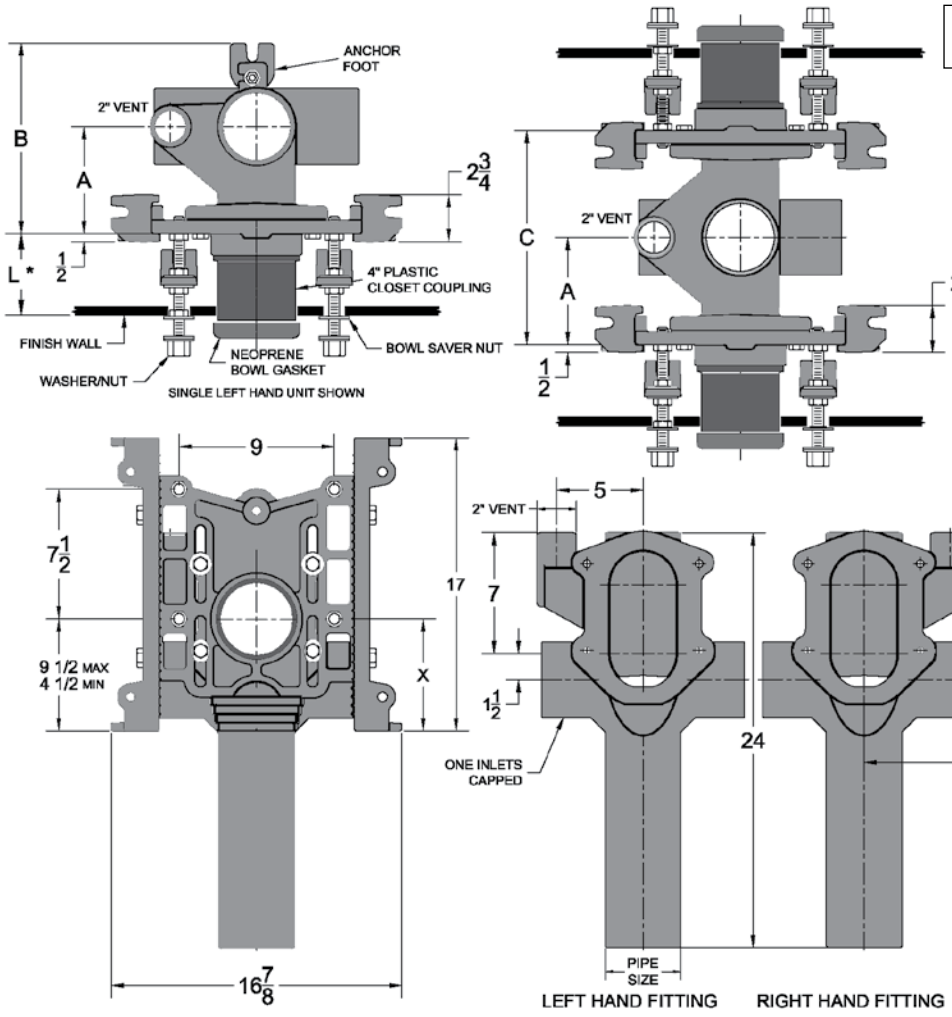
Suffix Options			
Suffix	**Description**		**Add**
AM1	Flush Valve Support	Sgl	$ 122.00
		Dbl	244.00
AM21	Tiling Flange	Sgl	116.00
		Dbl	231.00
FPO	Adjustable All Thread ABS Coupling		N/C
JJ	Dual 2" Female Threaded Auxiliary Inlets		990.00
JL	2" Female Thread Left Hand Auxiliary		494.00
JR	2" Female Thread Right Hand Auxiliary Inlet		494.00

Suffix Options			
Suffix	**Description**		**Add**
M3	Vandal Proof Hardware	Sgl	$ 185.00
		Dbl	370.00
M26	Adjustable Cast Iron Coupling (Up to 12").		N/C
Suffix	**Description**		**Deduct**
M14	Floor Mounted, Back Outlet Adapter	Sgl	(215.00)
		Dbl	(429.00)
PF	Pre-Fab Faceplace Assembly		N/C

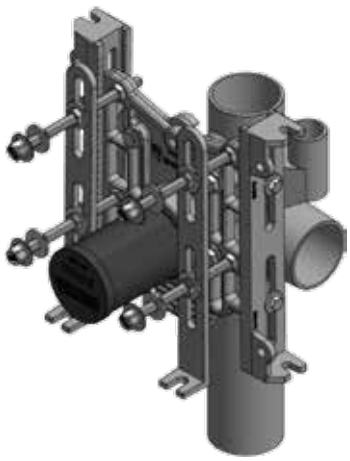
**Dimensions vary from illustration*

FIXTURE SUPPORTS

330HD-A1 Vertical, Adjustable Water Closet Support - No-Hub (500Lb. Rating)



ASME LOAD RATING - 500 LB.



330HD-NR44-A1



Assembly includes (2) No-Hub Caps for Blanking Side Inlets.

Regularly Furnished: Heavy duty adjustable vertical siphon jet water closet support provides a rigid system with No-Hub connections. Comes complete with painted cast iron right-hand, left-hand, or double main fitting, 2" vent, adjustable gasketed faceplate, universal floor mounted foot supports, rigid support frames, corrosion resistant polymer coupling with integral test cap, fixture studs, trim, and stud protectors. Includes rear anchor tie down and bowl gasket.

Model	Wt. Lbs.	Style	Side Inlet Location	Connection Type	Regularly Furnished	Dimensions		
						A	B	C
330HD-NR44-A1	99.7	SGL RH (1 Inlet)	Reversible	No-Hub	$ 3,231.00	6-1/2"	11-5/8"	-
330HD-NL44-A1	99.7	SGL LH (1 Inlet)	Reversible		3,231.00	6-1/2"	11-5/8"	-
330HD-ND44-A1	159.2	DBL (1 Inlets)	Reversible		5,459.00	6-1/2"	-	13"

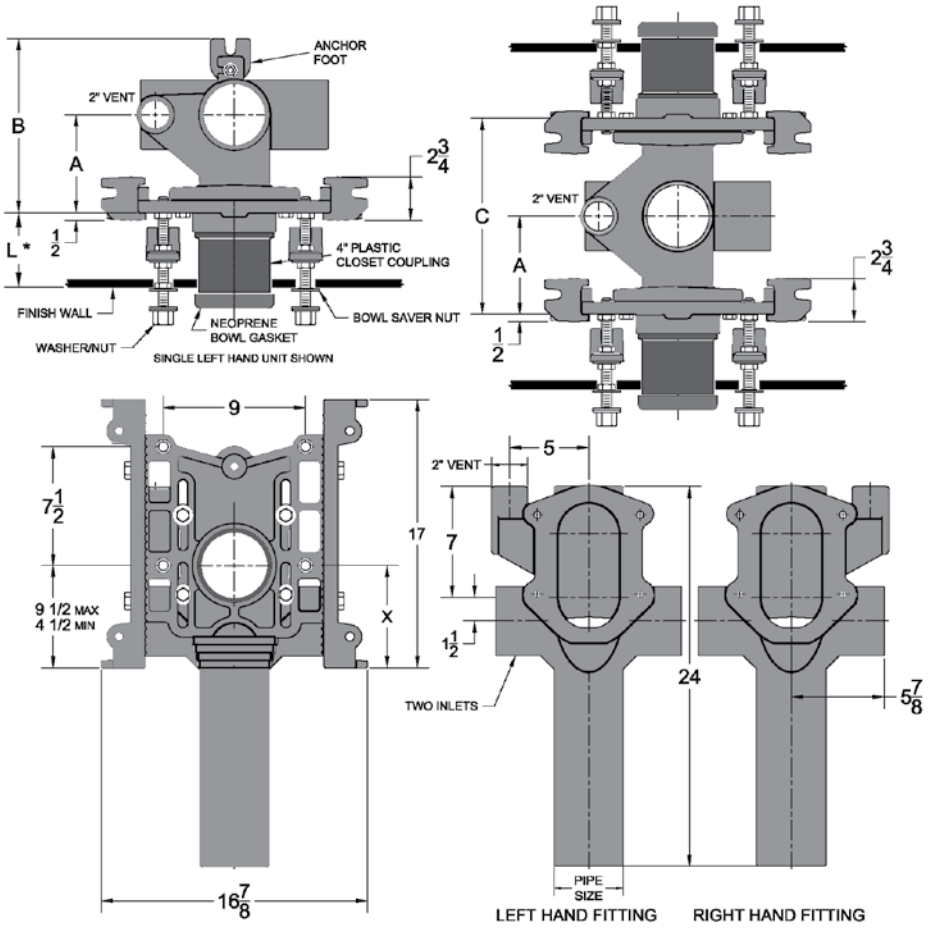
Suffix Options			
Suffix	Description		Add
AM1	Flush Valve Support	Sgl	$ 122.00
		Dbl	244.00
AM21	Tiling Flange	Sgl	116.00
		Dbl	231.00
FPO	Adjustable All Thread ABS Coupling		N/C

Suffix Options			
Suffix	Description		Add
LR	Low Rough Faceplate		N/C
M3	Vandal Proof Hardware	Sgl.	$ 185.00
		Dbl.	370.00
M26	Adjustable Cast Iron Coupling (Up to 12").		N/C

**Dimensions vary from illustration*

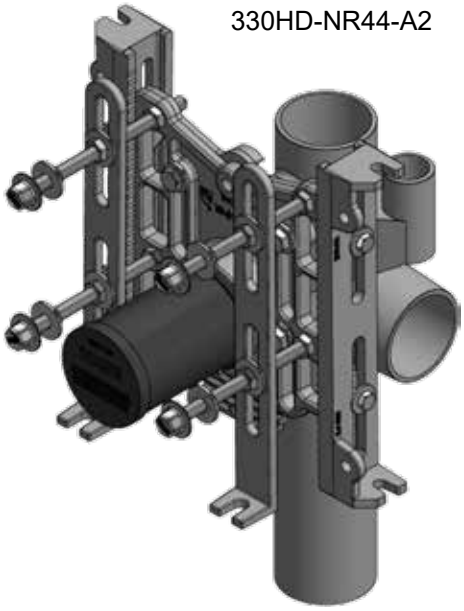
FIXTURE SUPPORTS

330HD-A2 Vertical, Adjustable Water Closet Support - No-Hub (500Lb. Rating)



ASME LOAD RATING - 500 LB.

330HD-NR44-A2



Regularly Furnished: Heavy duty adjustable vertical siphon jet water closet support provides a rigid system with No-Hub connections. Comes complete with painted cast iron right-hand, left-hand, or double main fitting, 2" vent, adjustable gasketed faceplate, universal floor mounted foot supports, rigid support frames, corrosion resistant polymer coupling with integral test cap, fixture studs, trim, and stud protectors. Includes rear anchor tie down and bowl gasket. Fitting has two 4" side inlets

Model	Wt. Lbs.	Style	Side Inlet Connection	Connection Type	Regularly Furnished	Dimensions		
						A	B	C
330HD-NR44-A2	98.9	SGL RH (2 Inlet)	Dual	No-Hub	$3,649.00	6-1/2"	11-5/8"	-
330HD-NL44-A2	98.9	SGL LH (2 Inlet)	Dual		3,649.00	6-1/2"	-	-
330HD-ND44-A2	167.8	DBL (2 Inlets)	Dual		5,878.00	6-1/2"	-	13"

Suffix Options			
Suffix	Description		Add
AM1	Flush Valve Support	Sgl	$ 122.00
		Dbl	244.00
AM21	Tiling Flange	Sgl	116.00
		Dbl	231.00
FPO	Adjustable All Thread ABS Coupling		N/C
HR	High Rough Faceplate *		N/C

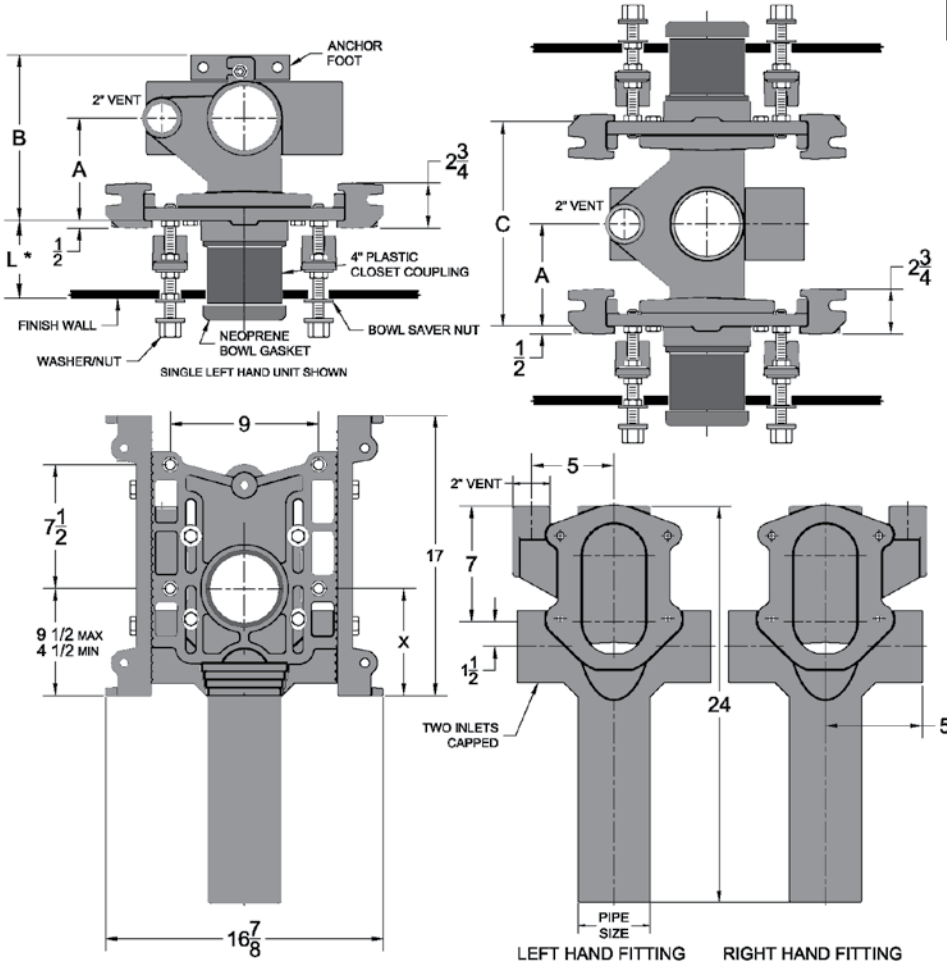
Suffix Options			
Suffix	Description		Add
LR	Low Rough Faceplate		N/C
M3	Vandal Proof Hardware	Sgl.	$ 185.00
		Dbl.	370.00
M26	Adjustable Cast Iron Coupling (Up to 12").		N/C

**Dimensions vary from illustration*

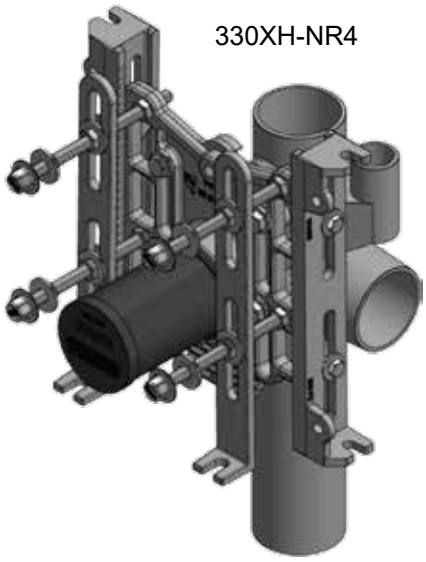
FIXTURE SUPPORTS

330XH Vertical, Adjustable Water Closet Support - No-Hub (750Lb. Rating)

ASME LOAD RATING - 750 LB.



330XH-NR4





Assembly includes (2) No-Hub Caps for Blanking Side Inlets.

Regularly Furnished: Extra heavy duty adjustable vertical siphon jet water closet support provides a rigid system with No-Hub connections. Comes complete with painted cast iron right-hand, left-hand, or double main fitting, 2" vent, adjustable gasketed faceplate, universal floor mounted foot supports, rigid support frames, corrosion resistant polymer coupling with integral test cap, fixture studs, trim, and stud protectors. Includes rear anchor tie down and bowl gasket.

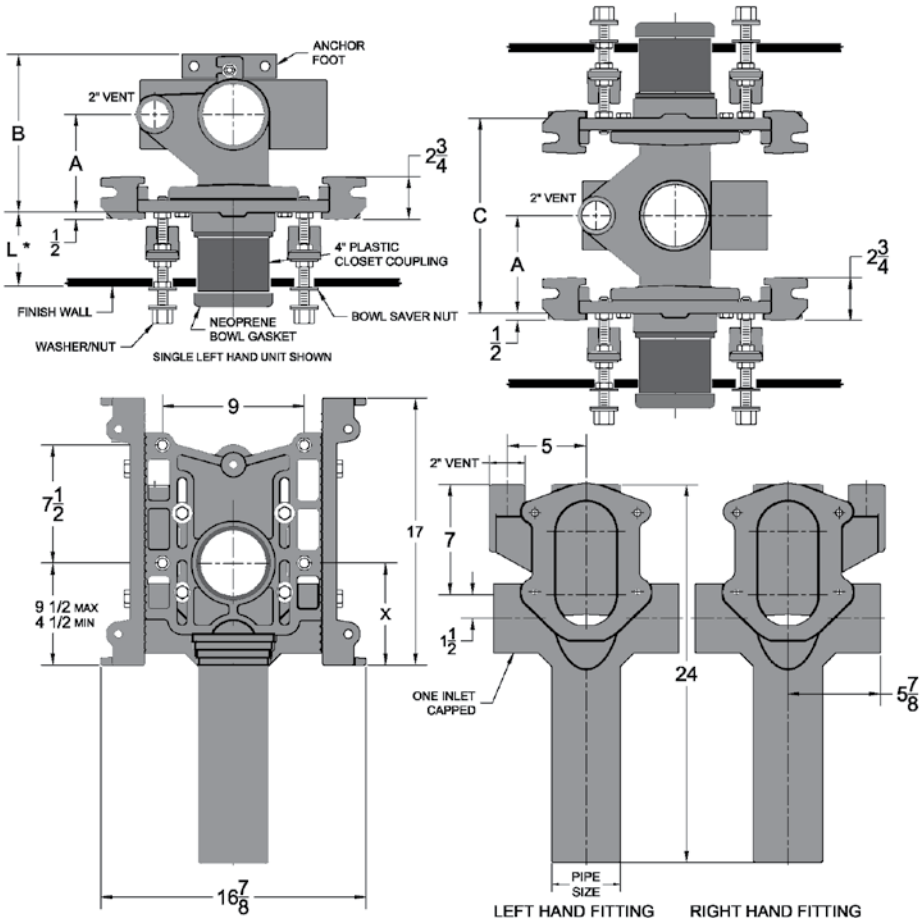
Model	Wt. Lbs.	Style	Connection Type	Regularly Furnished	Dimensions		
					A	B	C
330XH-NR4	98.9	SGL RH	No-Hub	$5,063.00	6-1/2"	11-5/8"	-
330XH-NL4	98.9	SGL LH		5,063.00	6-1/2"	-	-
330XH-ND4	167.8	DBL		9,770.00	6-1/2"	-	13"

Suffix Options			
Suffix	**Description**		**Add**
AM1	Flush Valve Support	Sgl	$ 122.00
		Dbl	244.00
AM21	Tiling Flange	Sgl	116.00
		Dbl	231.00
FPO	Adjustable All Thread ABS Coupling		N/C
HR	High Rough Faceplate *		N/C
JJ	Dual 2" No-Hub Auxiliary Inlets		990.00
JL	2" No-Hub Left Hand Auxiliary Inlet		494.00
JR	2" No-Hub Right Hand Auxiliary Inlet		494.00

Suffix Options			
Suffix	**Description**		**Add**
LR	Low Rough Faceplate		N/C
M3	Vandal Proof Hardware	Sgl.	$ 185.00
		Dbl.	370.00
M26	Adjustable Cast Iron Coupling (Up to 12").		N/C

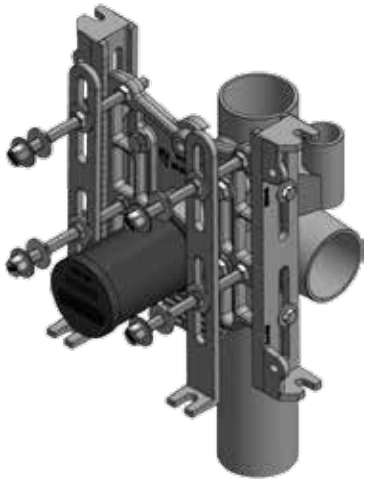
**Dimensions vary from illustration*

330XH-A1 Vertical, Adjustable Water Closet Support - No-Hub (750Lb. Rating)



ASME LOAD RATING - 750 LB.

330XH-NR44-A1





Assembly includes (2) No-Hub Caps for Blanking Side Inlets.

Regularly Furnished: Extra heavy duty adjustable vertical siphon jet water closet support provides a rigid system with No-Hub connections. Comes complete with painted cast iron right-hand, left-hand, or double main fitting, 2" vent, adjustable gasketed faceplate, universal floor mounted foot supports, rigid support frames, corrosion resistant polymer coupling with integral test cap, fixture studs, trim, and stud protectors. Includes rear anchor tie down and bowl gasket. Fitting has two 4" side inlets (one capped)

Model	Wt. Lbs.	Style	Side Inlet Location	Connection Type	Regularly Furnished	Dimensions		
						A	B	C
330XH-NR44-A1	98.9	SGL RH (1 Inlet)	Reversible	No-Hub	$5,485.00	6-1/2"	11-5/8"	-
330XH-NL44-A1	98.9	SGL LH (1 Inlet)	Reversible		5,485.00	6-1/2"	-	-
330XH-ND44-A1	167.8	DBL (1 Inlets)	Reversible		10,192.00	6-1/2"	-	13"

Suffix Options			
Suffix	Description		Add
AM1	Flush Valve Support	Sgl	$ 122.00
		Dbl	244.00
AM21	Tiling Flange	Sgl	116.00
		Dbl	231.00
FPO	Adjustable All Thread ABS Coupling		N/C

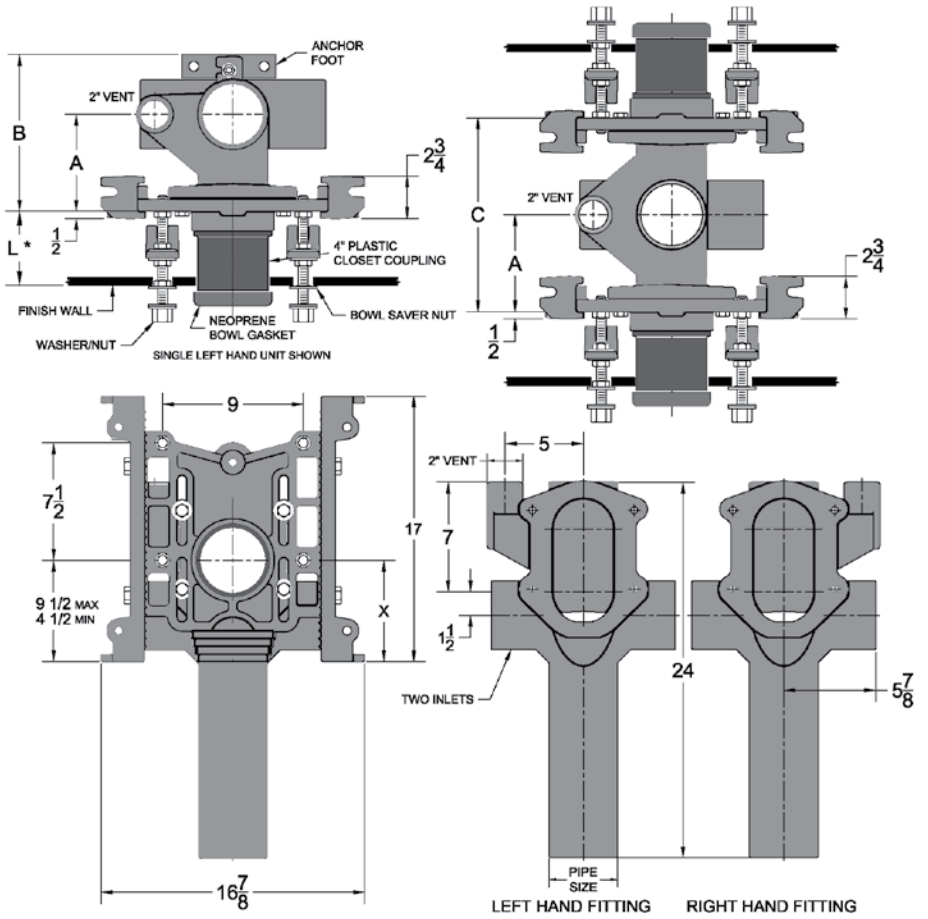
Suffix Options			
Suffix	Description		Add
LR	Low Rough Faceplate		N/C
M3	Vandal Proof Hardware	Sgl.	$ 185.00
		Dbl.	370.00
M26	Adjustable Cast Iron Coupling (Up to 12").		N/C

**Dimensions vary from illustration*

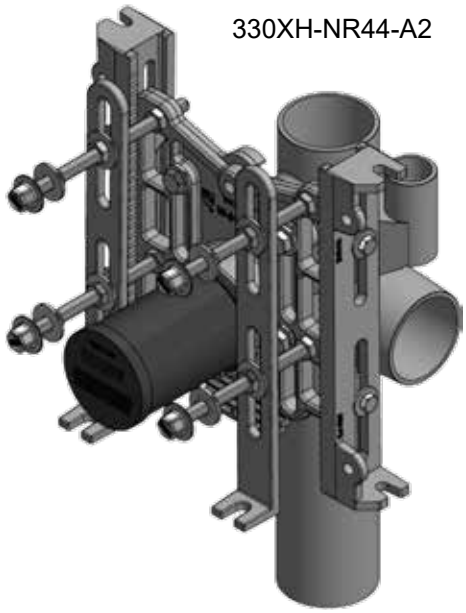
FIXTURE SUPPORTS

330XH-A2 Vertical, Adjustable Water Closet Support - No-Hub (750Lb. Rating)

ASME LOAD RATING - 750 LB.



330XH-NR44-A2



Regularly Furnished: Extra heavy duty adjustable vertical siphon jet water closet support provides a rigid system with No-Hub connections. Comes complete with painted cast iron right-hand, left-hand, or double main fitting, 2" vent, adjustable gasketed faceplate, universal floor mounted foot supports, rigid support frames, corrosion resistant polymer coupling with integral test cap, fixture studs, trim, and stud protectors. Includes rear anchor tie down and bowl gasket. Fitting has two 4" side inlets.

Model	Wt. Lbs.	Style	Side Inlet Connection	Connection Type	Regularly Furnished	Dimensions		
						A	B	C
330XH-NR44-A2	98.9	SGL RH (2 Inlet)	Dual	No-Hub	$ 5,903.00	6-1/2"	11-5/8"	-
330XH-NL44-A2	98.9	SGL LH (2 Inlet)	Dual		5,903.00	6-1/2"	-	-
330XH-ND44-A2	167.8	DBL (2 Inlets)	Dual		10,610.00	6-1/2"	-	13"

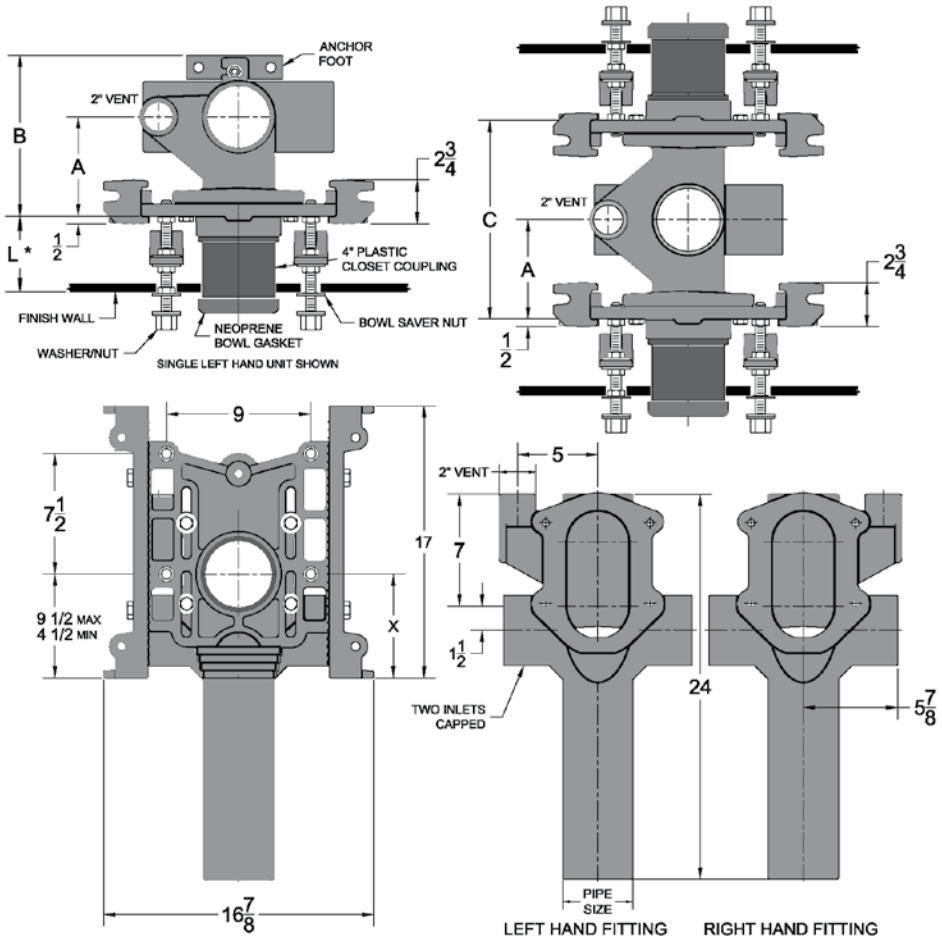
Suffix Options			
Suffix	**Description**		**Add**
AM1	Flush Valve Support	Sgl	$ 122.00
		Dbl	244.00
AM21	Tiling Flange	Sgl	116.00
		Dbl	231.00
FPO	Adjustable All Thread ABS Coupling		N/C
HR	High Rough Faceplate		N/C

Suffix Options			
Suffix	**Description**		**Add**
LR	Low Rough Faceplate		N/C
M3	Vandal Proof Hardware	Sgl.	$ 185.00
		Dbl.	370.00
M26	Adjustable Cast Iron Coupling (Up to 12").		N/C

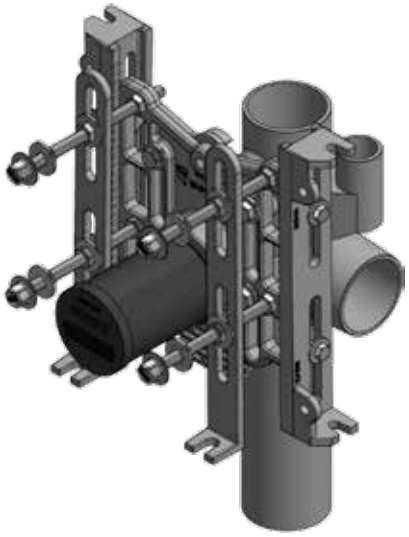
FIXTURE SUPPORTS

330XB Vertical, Adjustable Water Closet Support - No-Hub (1,000Lb. Rating)

ASME LOAD RATING - 1000 LB.



330XB-NR4





Assembly includes (2) No-Hub Caps for Blanking Side Inlets.

Regularly Furnished: Adjustable siphon jet water closet support provides a rigid system with No-Hub connections. Comes complete with painted cast iron right-hand, left-hand, or double main fitting, 2" vent, adjustable gasketed faceplate, universal floor mounted foot supports, corrosion resistant polymer coupling with integral test cap, fixture studs, trim, and stud protectors. Includes rear anchor tie down and bowl gasket.

Model	Wt. Lbs.	Style	Connection Type	Regularly Furnished	Dimensions		
					A	B	C
330XB-NR4	98.9	SGL RH	No-Hub	$6,967.00	6-1/2"	11-5/8"	-
330XB-NL4	98.9	SGL LH		6,967.00	6-1/2"	-	-
330XB-ND4	167.8	DBL		13,443.00	6-1/2"	-	13"

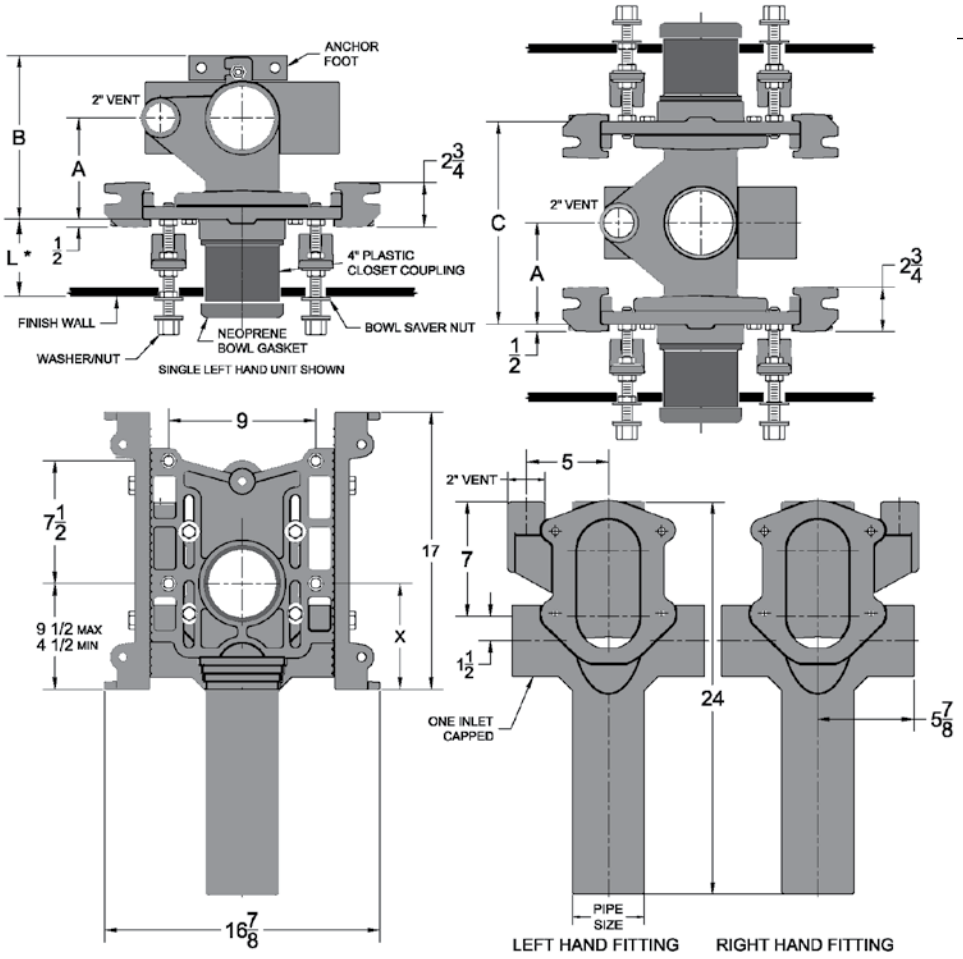
Suffix Options			
Suffix	**Description**		**Add**
AM1	Flush Valve Support	Sgl	$ 122.00
		Dbl	244.00
AM21	Tiling Flange	Sgl	116.00
		Dbl	231.00
FPO	Adjustable All Thread ABS Coupling		N/C
JJ	Dual 2" No-Hub Auxiliary Inlets		990.00
JL	2" No-Hub Left Hand Auxiliary Inlet		494.00
JR	2" No-Hub Right Hand Auxiliary Inlet		494.00

Suffix Options			
Suffix	**Description**		**Add**
LR	Low Rough Faceplate *		N/C
M3	Vandal Proof Hardware	Sgl.	$ 185.00
		Dbl.	370.00
M26	Adjustable Cast Iron Coupling (Up to 12").		N/C

**Dimensions vary from illustration*

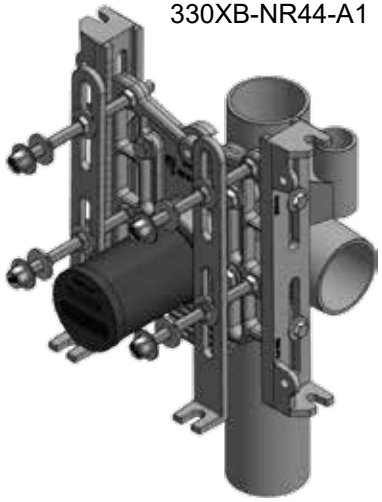
FIXTURE SUPPORTS

330XB-A1 Vertical, Adjustable Water Closet Support - No-Hub (1,000Lb. Rating)



ASME LOAD RATING - 1000 LB.

330XB-NR44-A1





Assembly includes (2) No-Hub Caps for Blanking Side Inlets.

Regularly Furnished: Adjustable siphon jet water closet support provides a rigid system with No-Hub connections. Comes complete with painted cast iron right-hand, left-hand, or double main fitting, 2" vent, adjustable gasketed faceplate, universal floor mounted foot supports, corrosion resistant polymer coupling with integral test cap, fixture studs, trim, and stud protectors. Includes rear anchor tie down and bowl gasket. Fitting has two 4" side inlets (one capped).

Model	Wt. Lbs.	Style	Side Inlet Location	Connection Type	Regularly Furnished	Dimensions		
						A	B	C
330XB-NR44-A1	98.9	SGL RH (1 Inlet)	Reversible	No-Hub	$7,389.00	6-1/2"	11-5/8"	-
330XB-NL44-A1	98.9	SGL LH (1 Inlet)	Reversible		7,389.00	6-1/2"	-	-
330XB-ND44-A1	167.8	DBL (1 Inlets)	Reversible		13,865.00	6-1/2"	-	13"

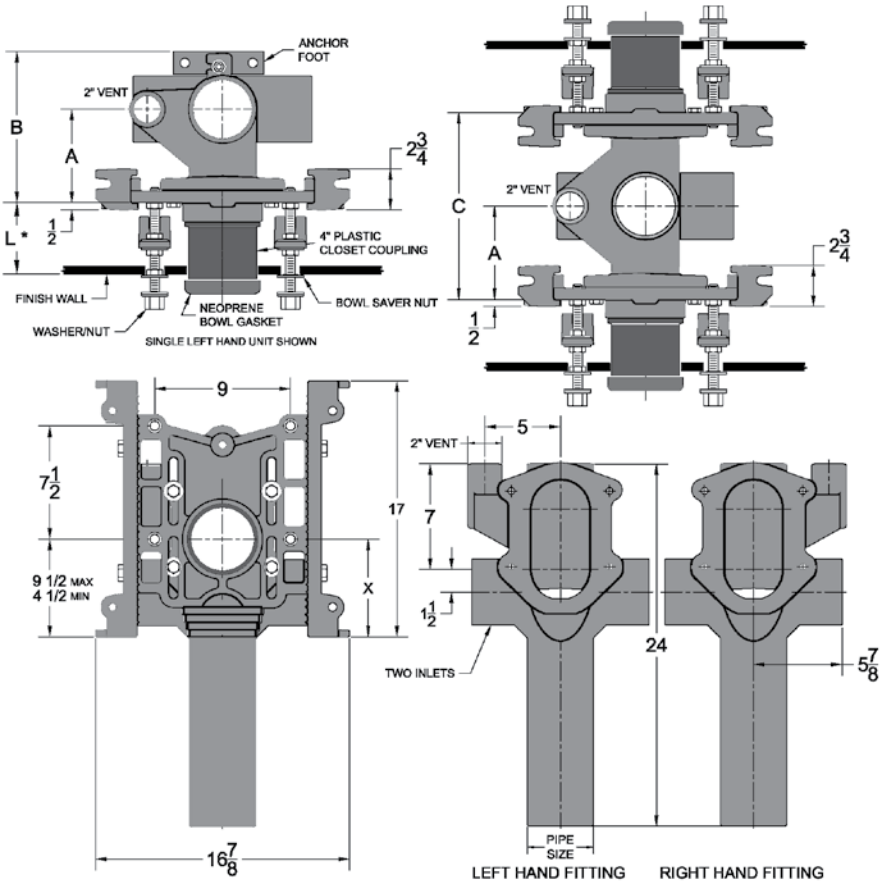
Suffix Options			
Suffix	**Description**		**Add**
AM1	Flush Valve Support	Sgl	$ 122.00
		Dbl	244.00
AM21	Tiling Flange	Sgl	116.00
		Dbl	231.00
FPO	Adjustable All Thread ABS Coupling		N/C
HR	High Rough Faceplate *		N/C

Suffix Options			
Suffix	**Description**		**Add**
LR	Low Rough Faceplate		N/C
M3	Vandal Proof Hardware	Sgl.	$ 185.00
		Dbl.	370.00
M26	Adjustable Cast Iron Coupling (Up to 12").		N/C

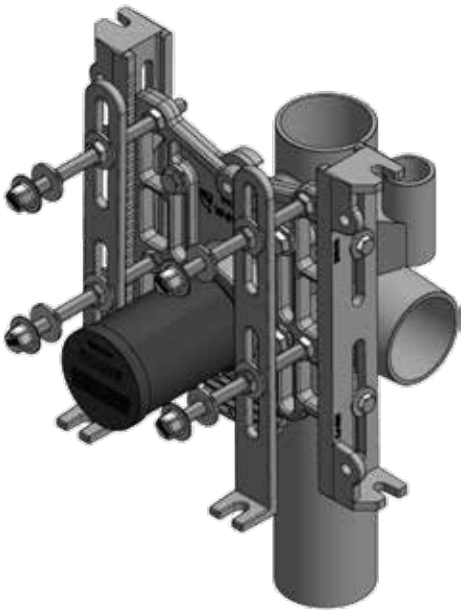
**Dimensions vary from illustration*

FIXTURE SUPPORTS

330XB-A2 Vertical, Adjustable Water Closet Support - No-Hub (1,000Lb. Rating)



ASME LOAD RATING - 1000 LB.



330XB-NR44-A2

Regularly Furnished: Adjustable siphon jet water closet support provides a rigid system with No-Hub connections. Comes complete with painted cast iron right-hand, left-hand, or double main fitting, 2" vent, adjustable gasketed faceplate, universal floor mounted foot supports, corrosion resistant polymer coupling with integral test cap, fixture studs, trim, and stud protectors. Includes rear anchor tie down and bowl gasket. Fitting has two 4" side inlets.

Model	Wt. Lbs.	Style	Side Inlet Connection	Connection Type	Regularly Furnished	Dimensions		
						A	B	C
330XB-NR44-A2	98.9	SGL RH (2 Inlet)	Dual	No-Hub	$7,807.00	6-1/2"	11-5/8"	-
330XB-NL44-A2	98.9	SGL LH (2 Inlet)	Dual		7,807.00	6-1/2"	-	-
330XB-ND44-A2	167.8	DBL (2 Inlets)	Dual		14,283.00	6-1/2"	-	13"

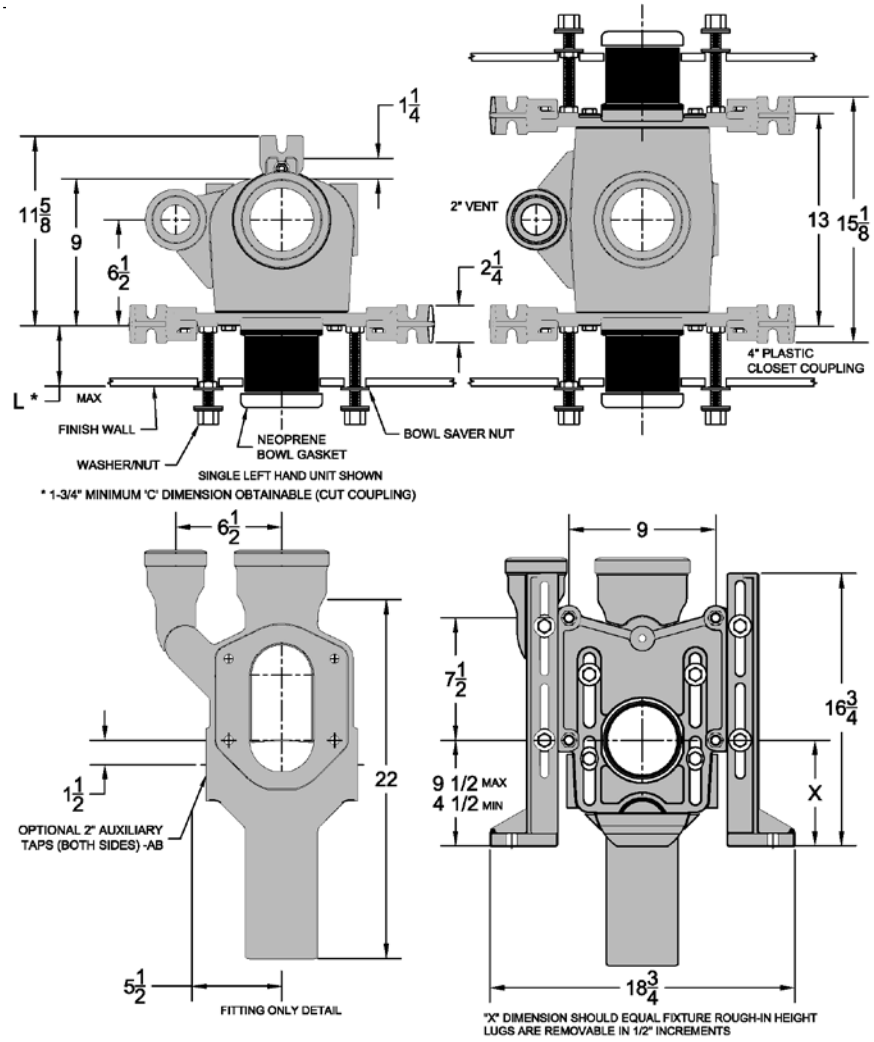
Suffix Options			
Suffix	**Description**		**Add**
AM1	Flush Valve Support	Sgl	$ 122.00
		Dbl	244.00
AM21	Tiling Flange	Sgl	116.00
		Dbl	231.00
FPO	Adjustable All Thread ABS Coupling		N/C
HR	High Rough Faceplate *		N/C

Suffix Options			
Suffix	**Description**		**Add**
LR	Low Rough Faceplate		N/C
M3	Vandal Proof Hardware	Sgl.	$ 185.00
		Dbl.	370.00
M26	Adjustable Cast Iron Coupling (Up to 12").		N/C

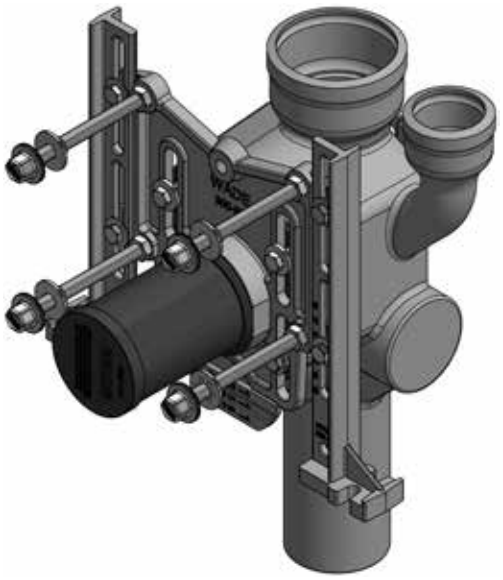
**Dimensions vary from illustration*

FIXTURE SUPPORTS

330 Vertical, Adjustable Water Closet Support - SV Hub & Spigot



ASME LOAD RATING - 300 LB.



330-CR4

Regularly Furnished: Adjustable siphon jet water closet support provides a rigid system with hub & spigot connections. Comes complete with painted cast iron right-hand, left-hand, or double main fitting, 2" vent, adjustable gasketed faceplate, universal floor mounted foot supports, corrosion resistant polymer coupling with integral test cap, fixture studs, trim, and stud protectors. Includes rear anchor tie down and bowl gasket.

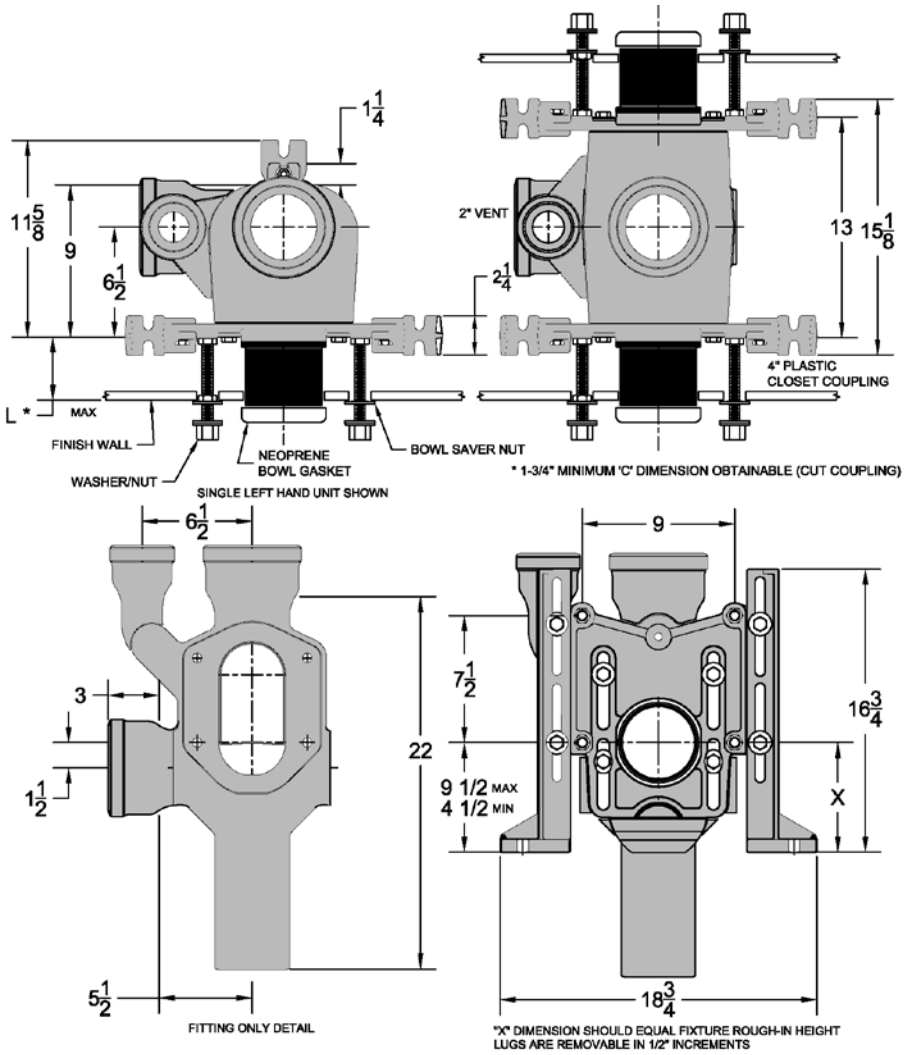
Model	Wt. Lbs.	Style	Connection Type	Regularly Furnished
330-CR4	69.4	SGL RH	SV Hub & Spigot	$2,637.00
330-CL4	69.4	SGL LH		2,637.00
330-CD4	117.8	DBL		4,561.00

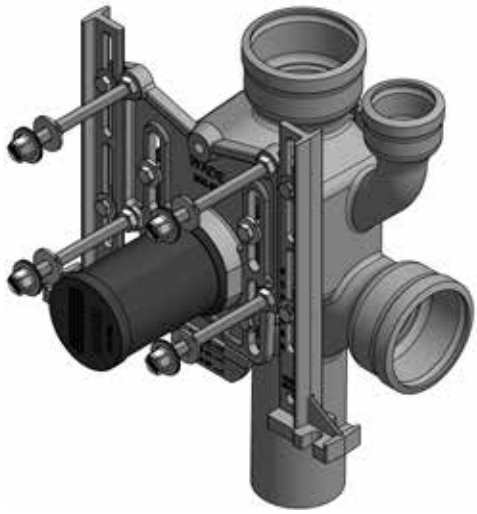
Suffix Options			
Suffix	**Description**		**Add**
HD	Heavy Duty Faceplate (500lb.)	Sgl.	$ 357.00
		Dbl.	714.00
XH	Extra Heavy Duty Faceplate (750lb,)	Sgl.	2,484.00
		Dbl.	4,263.00
XB	Bariatric Faceplate (1,000lb.).	Sgl.	4,170.00
		Dbl.	8,340.00
LR	Low Rough Faceplate (300lb.)		N/C
PF	Pre-Fab Faceplate Assembly		N/C
JJ	Dual 2" Female Threaded Auxiliary Inlets		990.00
JL	2" Female Threaded Left Hand Auxiliary Inlet		494.00
JR	2" Female Threaded Right Hand Auxiliary Inlet		494.00

Suffix Options		Add (Deduct)	
Suffix	**Description**	**Single**	**Double**
AM1	Flush Valve Support	$ 122.00	$ 244.00
AM21	Tiling Flange	116.00	231.00
ECC11	Extended Coupling & Hardware (11")	N/C	N/C
ECC14	Extended Coupling & Hardware (14")	278.00	555.00
ECC24	Extended Coupling & Hardware (24")	1,659.00	3,318.00
FPO	6" Adjustable All Thread ABS Coupling	N/C	N/C
FPO/ECC14	14" Adjustable All Thread ABS Coupling	278.00	555.00
M3	Vandal Proof Hardware	185.00	370.00
M4	Rod Support Feet (Required for ECC)	439.00	878.00
M14	Floor Mount Back Outlet Adapter	(215.00)	(429.00)
M26	Adjustable Cast Iron Coupling	N/C	N/C

330-A1 Vertical, Adjustable Water Closet Support - Hub & Spigot

ASME LOAD RATING - 300 LB.





330-CR44-A1

Regularly Furnished: Adjustable siphon jet water closet support provides a rigid system with hub & spigot connections. Comes complete with painted cast iron right-hand, left-hand, or double main fitting, 2" vent, adjustable gasketed faceplate, universal floor mounted foot supports, corrosion resistant polymer coupling with integral test cap, fixture studs, trim, and stud protectors. Includes rear anchor tie down and bowl gasket. Fitting has one 4" hub inlet.

Model	Wt. Lbs.	Style	Connection Type	Regularly Furnished
330-CR44-A1	85.0	SGL RH	SV Hub & Spigot	$3,062.00
330-CL44-A1	85.0	SGL LH		3,062.00
330-CD44-A1	135.0	DBL		4,984.00

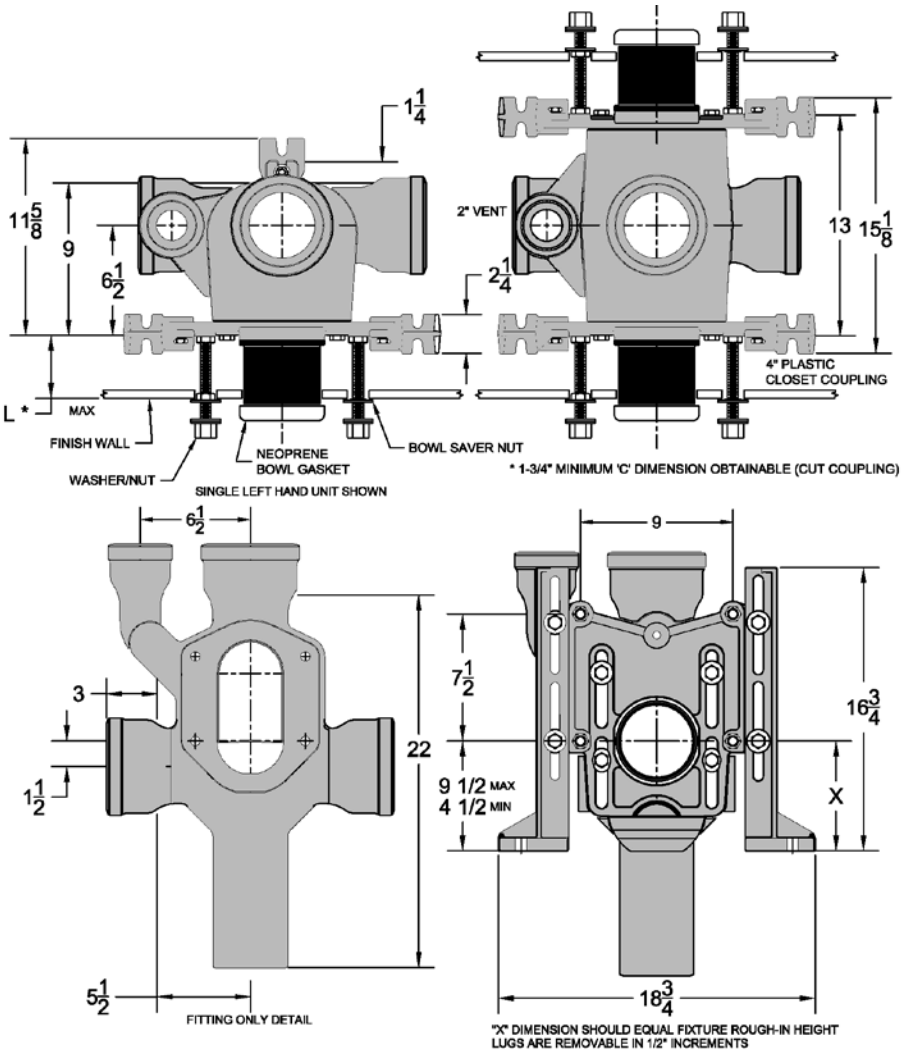
Suffix Options			
Suffix	**Description**		**Add**
HD	Heavy Duty Faceplate (500lb.)	Sgl.	$ 357.00
		Dbl.	714.00
XH	Extra Heavy Duty Faceplate (750lb,)	Sgl.	2,484.00
		Dbl.	4,263.00
XB	Bariatric Faceplate (1,000lb.).	Sgl.	4,170.00
		Dbl.	8,340.00
LR	Low Rough Faceplate (300lb.)		N/C
PF	Pre-Fab Faceplate Assembly		N/C

Suffix Options		Add (Deduct)	
Suffix	**Description**	**Single**	**Double**
AM1	Flush Valve Support	$ 122.00	$ 244.00
AM21	Tiling Flange	116.00	231.00
ECC11	Extended Coupling & Hardware (11")	N/C	N/C
ECC14	Extended Coupling & Hardware (14")	278.00	555.00
ECC24	Extended Coupling & Hardware (24")	1,659.00	3,318.00
FPO	6" Adjustable All Thread ABS Coupling	N/C	N/C
FPO/ECC14	14" Adjustable All Thread ABS Coupling	278.00	555.00
M3	Vandal Proof Hardware	185.00	370.00
M4	Rod Support Feet (Required for ECC)	439.00	878.00
M14	Floor Mount Back Outlet Adapter	(215.00)	(429.00)
M26	Adjustable Cast Iron Coupling	N/C	N/C

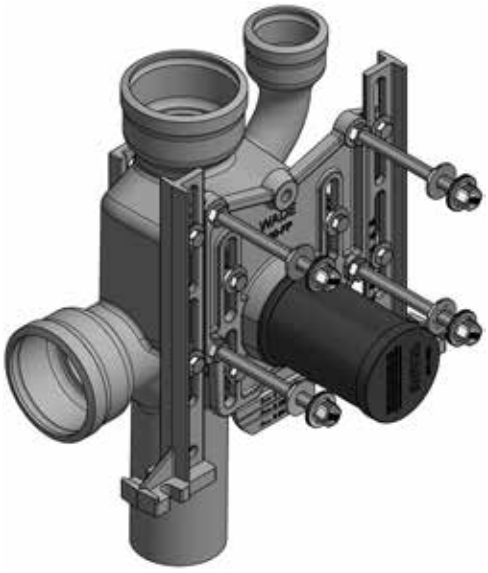
**Dimensions vary from illustration*

FIXTURE SUPPORTS

330-A2 Vertical, Adjustable Water Closet Support - Hub & Spigot



ASME LOAD RATING - 300 LB.



330-CR44-A2

Regularly Furnished: Adjustable siphon jet water closet support provides a rigid system with hub & spigot connections. Comes complete with painted cast iron right-hand, left-hand, or double main fitting, 2" vent, adjustable gasketed faceplate, universal floor mounted foot supports, corrosion resistant polymer coupling with integral test cap, fixture studs, trim, and stud protectors. Includes rear anchor tie down and bowl gasket. Fitting has two 4" hub inlets.

Model	Wt. Lbs.	Style	Connection Type	Regularly Furnished
330-CR44-A2	90.0	SGL RH	SV Hub & Spigot	$3,490.00
330-CL44-A2	90.0	SGL LH		3,490.00
330-CD44-A2	145.0	DBL		5,414.00

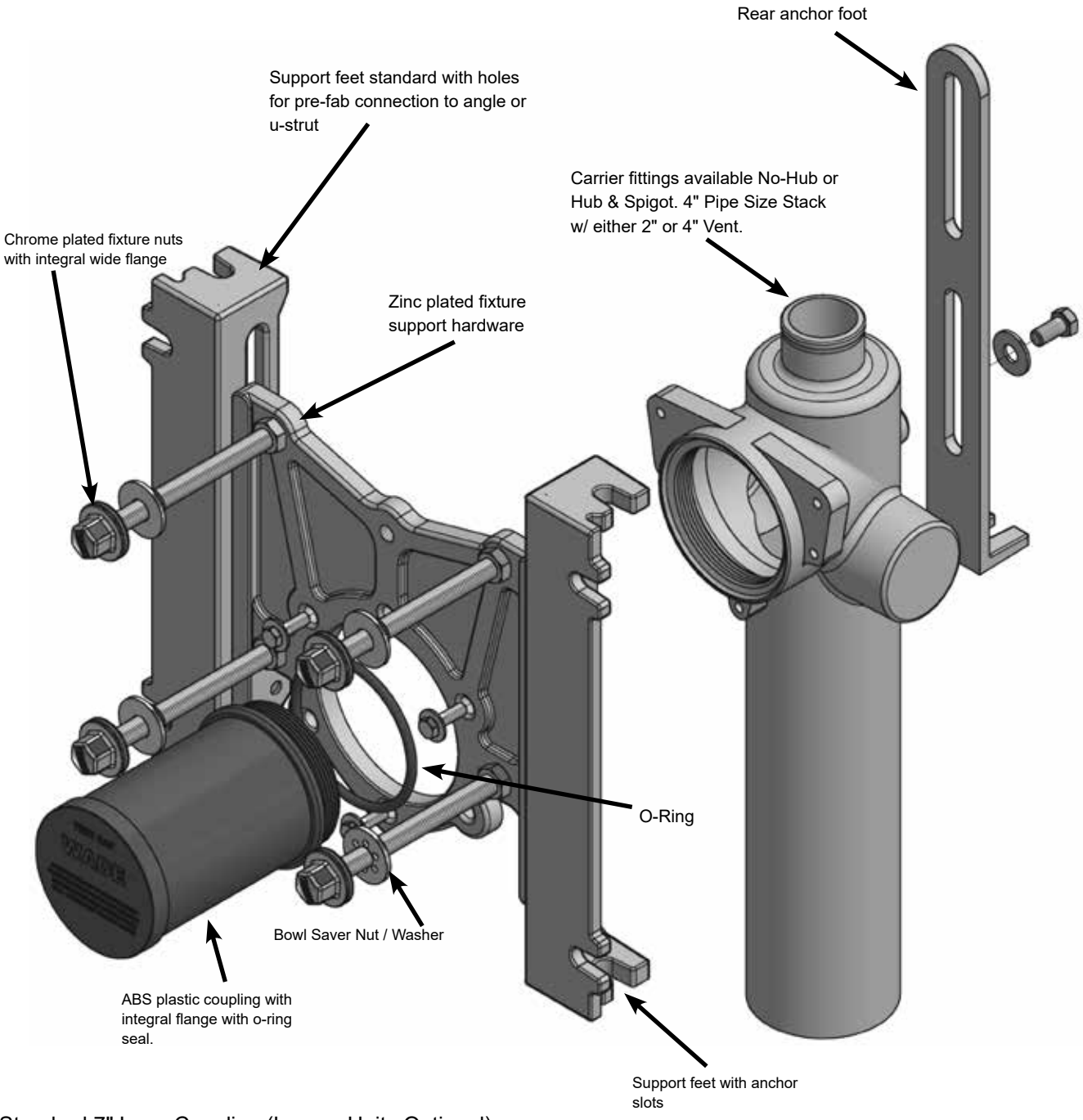
Suffix Options			
Suffix	**Description**		**Add**
HD	Heavy Duty Faceplate (500lb.)	Sgl.	$ 357.00
		Dbl.	714.00
XH	Extra Heavy Duty Faceplate (750lb,)	Sgl.	2,484.00
		Dbl.	4,263.00
XB	Bariatric Faceplate (1,000lb.).	Sgl.	4,170.00
		Dbl.	8,340.00
LR	Low Rough Faceplate (300lb.)		N/C
PF	Pre-Fab Faceplate Assembly		N/C

Suffix Options		Add (Deduct)	
Suffix	**Description**	**Single**	**Double**
AM1	Flush Valve Support	$ 122.00	$ 244.00
AM21	Tiling Flange	116.00	231.00
ECC11	Extended Coupling & Hardware (11")	N/C	N/C
ECC14	Extended Coupling & Hardware (14")	278.00	555.00
ECC24	Extended Coupling & Hardware (24")	1,659.00	3,318.00
FPO	6" Adjustable All Thread ABS Coupling	N/C	N/C
FPO/ECC14	14" Adjustable All Thread ABS Coupling	278.00	555.00
M3	Vandal Proof Hardware	185.00	370.00
M4	Rod Support Feet (Required for ECC)	439.00	878.00
M14	Floor Mount Back Outlet Adapter	(215.00)	(429.00)
M26	Adjustable Cast Iron Coupling	N/C	N/C

**Dimensions vary from illustration*

General Product Information

350-N2 (Fixed Vertical Water Closet Carrier w/ On Stack Vent)



Standard 7" Long Coupling (Longer Units Optional)

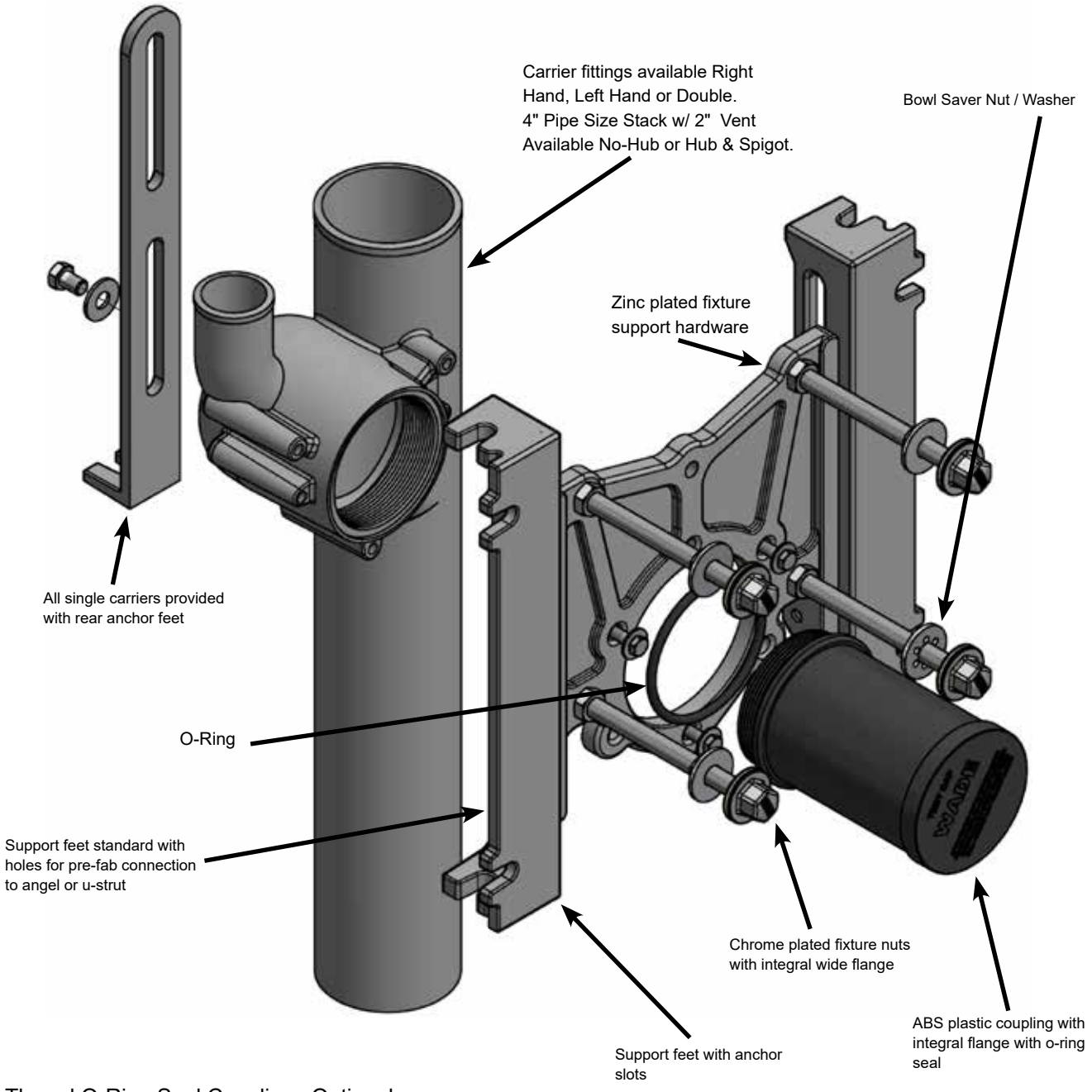
Auxiliary Side Inlets Optional

ASME Load Rating - 300 Lb.

FIXTURE SUPPORTS

General Product Information

360-NL (Fixed Vertical Water Closet Carrier w/ Offset Vent)



All Thread O-Ring Seal Couplings Optional

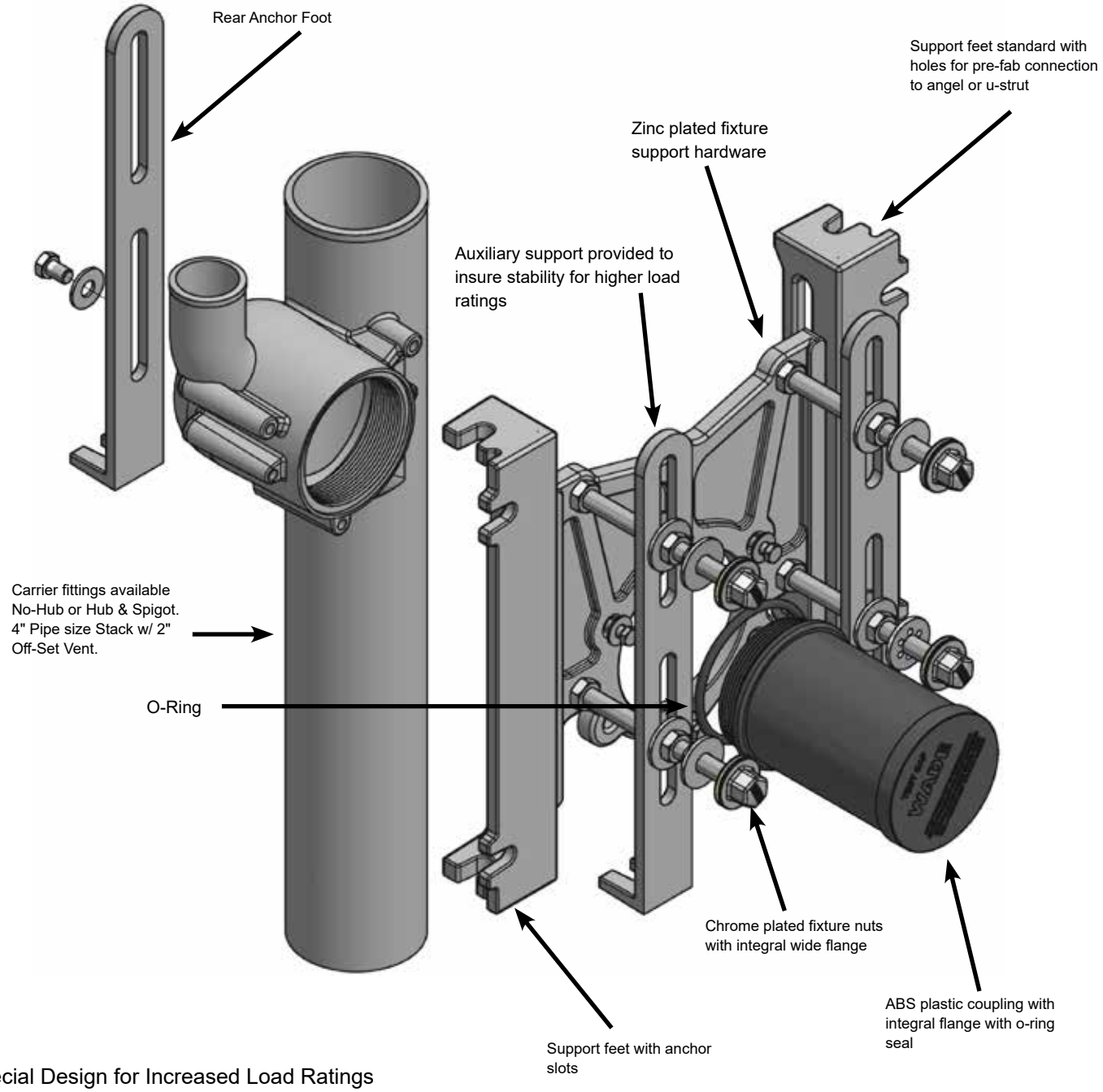
Auxiliary Side Inlets Optional

Standard 7" Long Coupling (Longer Units Optional)

ASME Load Rating - 300 Lb.

General Product Information

360 (HD,XH,XB)-NL (Fixed Vertical Water Closet Carrier w/ Offset Vent)



Special Design for Increased Load Ratings

All Thread O-Ring Seal Couplings Optional

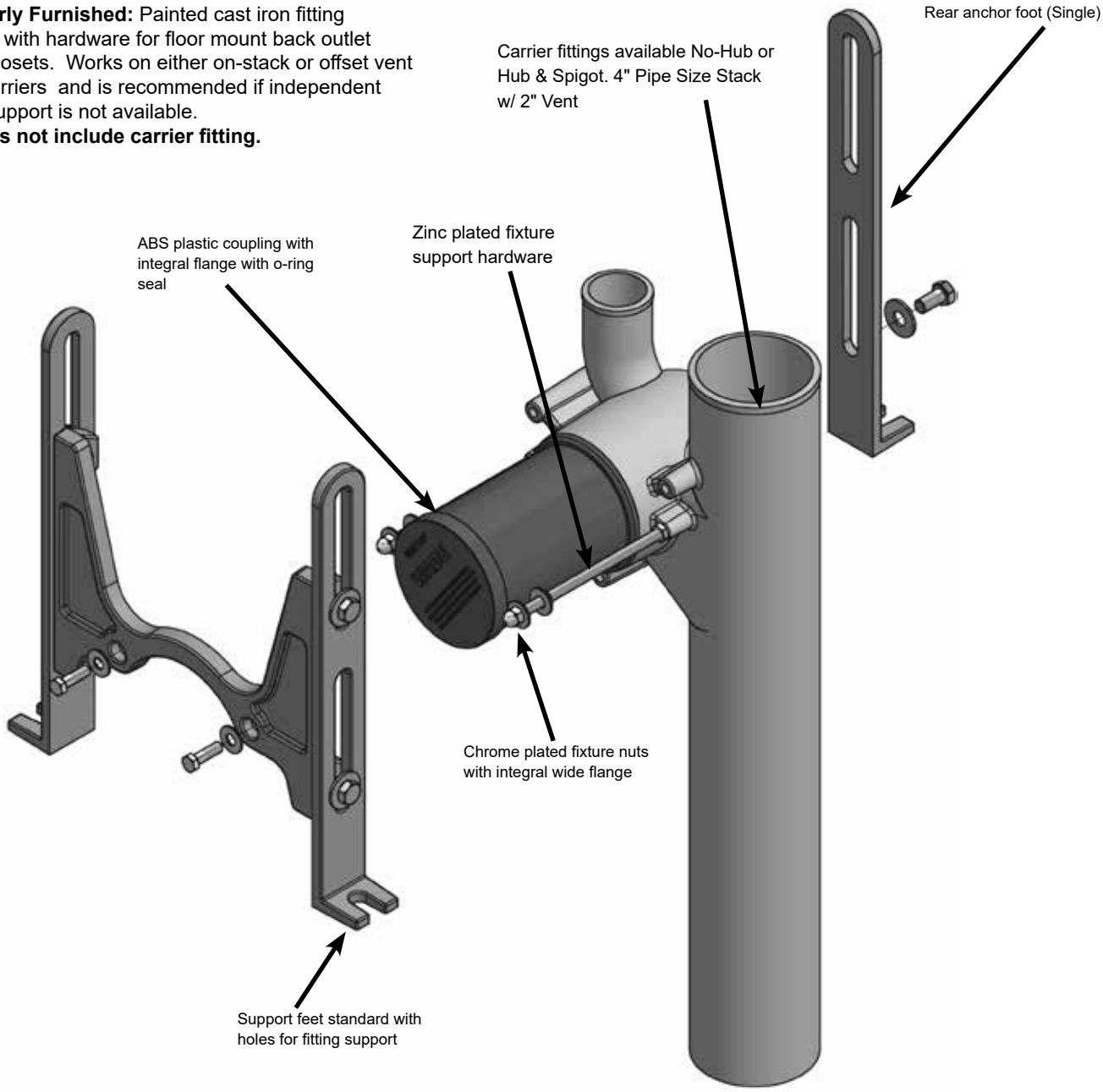
Standard 7" Long Coupling

ASME Load Rating - (HD) 500 Lb. / (XH) 750 Lb. / (XB) 1000 Lb.

General Product Information

360-NL-M15 (Fixed Vertical Water Closet Carrier w/ Offset Vent) Floor Mount Back Outlet

Regularly Furnished: Painted cast iron fitting support with hardware for floor mount back outlet water closets. Works on either on-stack or offset vent fixed carriers and is recommended if independent fitting support is not available.
Kit does not include carrier fitting.

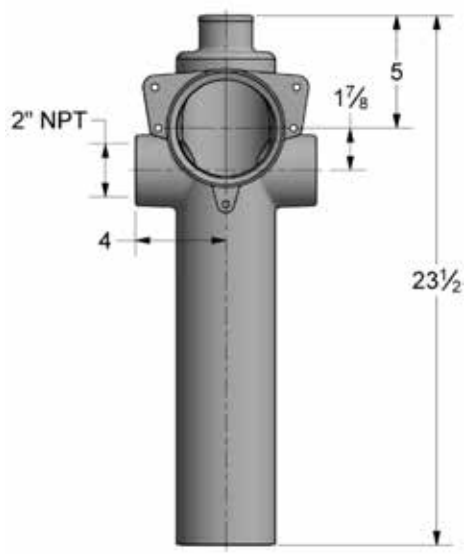


Standard 7" Long Coupling (Longer Units Optional)

Auxiliary Side Inlets Optional

General Product Information - Optional Inlets & Vents Adapter Fittings

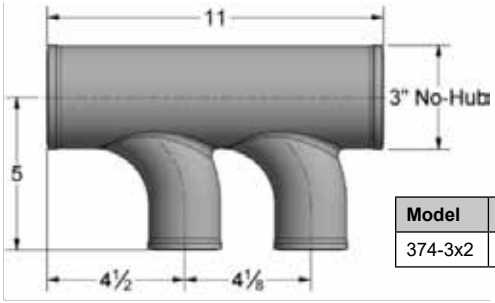
350 Vertical Fixed On-Stack Support



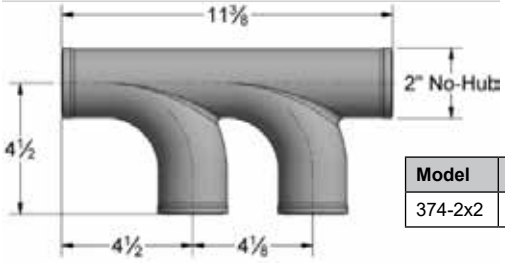
Suffix Options		
Suffix	**Description**	**Add**
JL	2" Female Thread Left Hand Auxiliary Inlet	$ 494.00
JR	2" Female Thread Right Hand Auxiliary Inlet	494.00
JJ	Dual 2" Female Threaded Auxiliary Inlets	990.00

374 Vent Adapter Fitting

Regularly Furnished: Painted cast iron sanitary tee vent adapter fitting with dual 2" no-hub inlets.

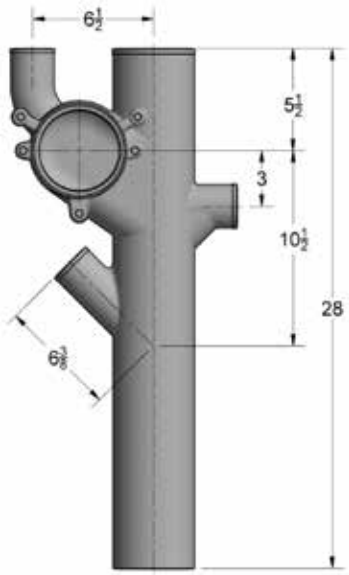


Model	List Price	Wt.
374-3x2	$ 448.00	6.5

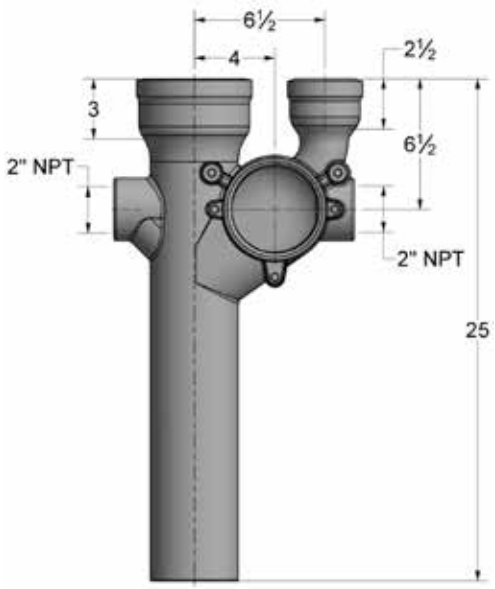


Model	List Price	Wt.
374-2x2	$ 448.00	5.0

360 Vertical Fixed Off-Set Support



Suffix Options		
Suffix	**Description**	**Add**
JS	2" Stack Side No-Hub Auxiliary Inlet	$ 494.00
JV	2" Vent Side 45° No-Hub Auxiliary Inlet	494.00
JJ	Dual 2" Female Threaded Auxiliary Inlets	990.00

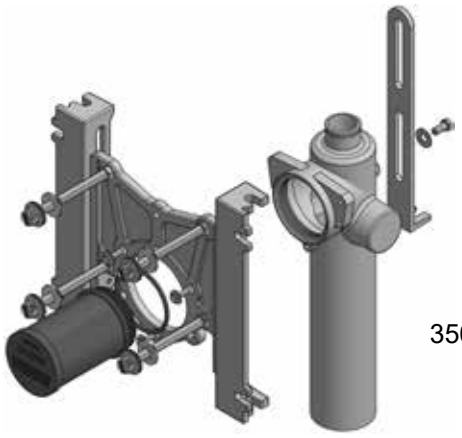


FIXTURE SUPPORTS

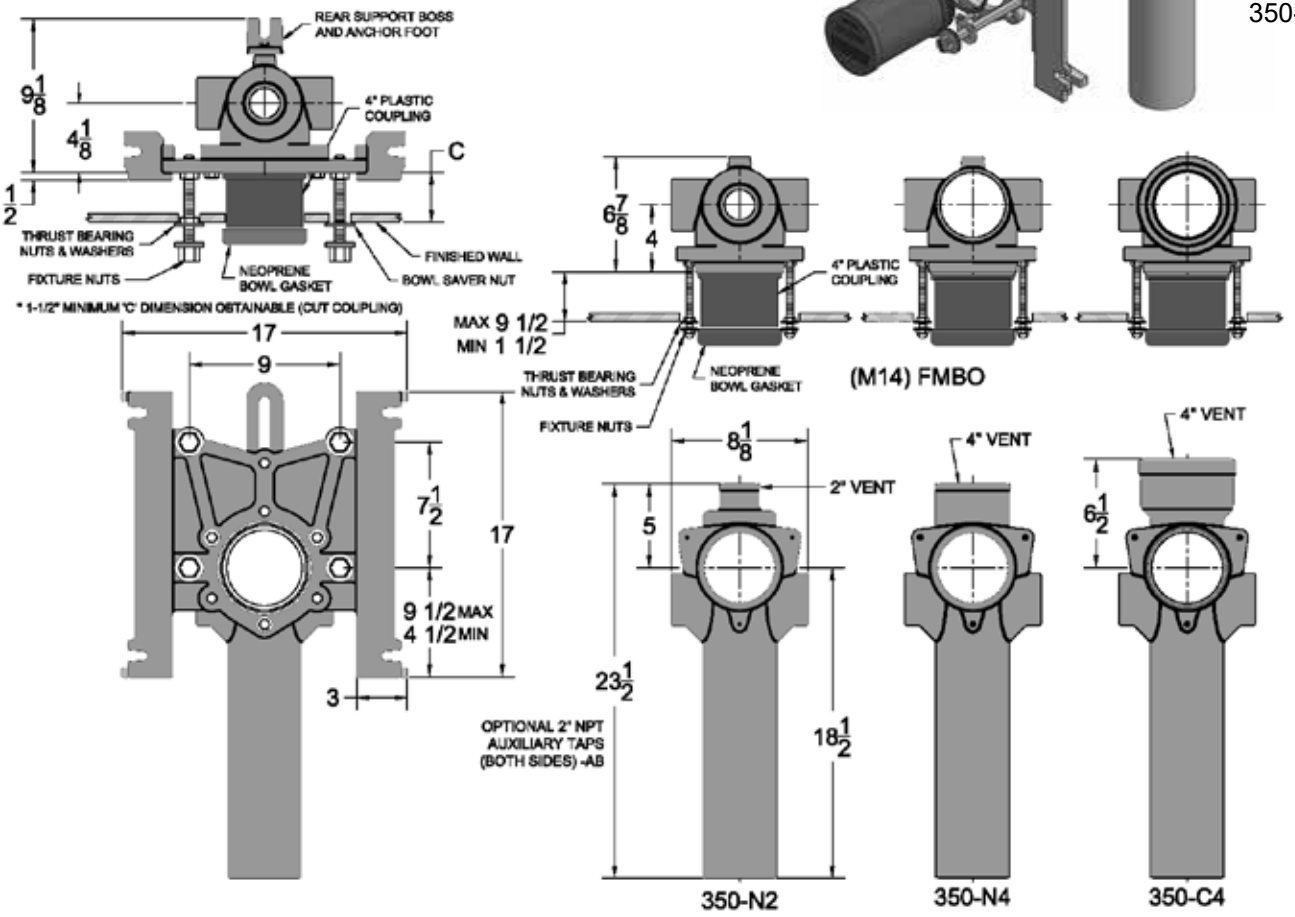
350 Vertical, Fixed Water Closet Support (On-Stack Vent)

ASME LOAD RATING - 300 LB.

Regularly Furnished: Fixed, vertical siphon jet water closet support provides a rigid system with No-Hub or hub & spigot connections. Comes complete with painted cast iron main fitting, 2" or 4" vent, fixed faceplate, universal floor mounted foot supports, corrosion resistant polymer coupling with integral test cap, fixture studs, trim, and stud protectors. Includes rear anchor tie down and bowl gasket.



350-N2



Model	Wt. Lbs.	Connection Type	Regularly Furnished	Pipe Size	Vent Size
350-C4	95.0	Hub & Spigot	$ 1,999.00	4"	4"
350-N2	95.0	No-Hub	1,950.00	4"	2"
350-N4	95.0	No-Hub	1,950.00	4"	4"

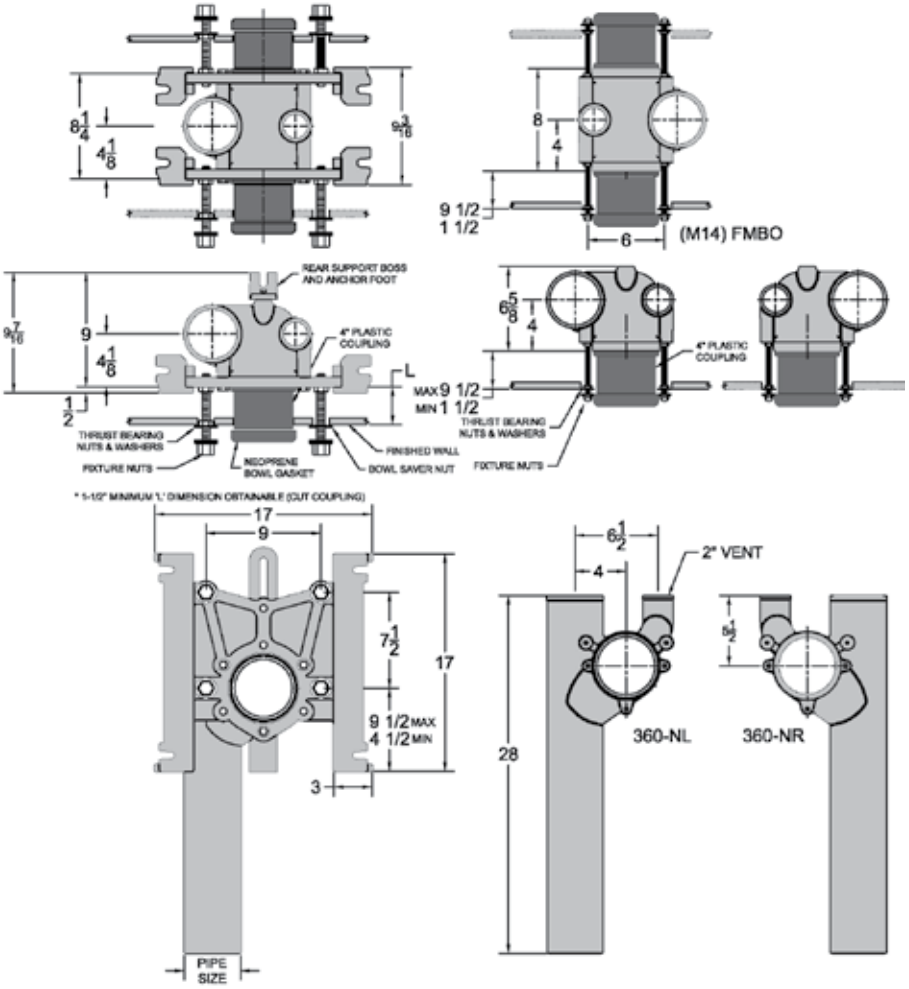
Suffix Options		Add
Suffix	Description	Single
AM1	Flush Valve Support	$ 122.00
AM21	Tiling Flange	116.00
ECC11	Extended Coupling & Hardware (11")	N/C
ECC14	Extended Coupling & Hardware (14")	278.00
ECC24	Extended Coupling & Hardware (24")	1,659.00

Suffix Options		Add
Suffix	Description	Single
HD	Heavy Duty (500 Lb. Rating)	$ 357.00
XH	Extra Heavy Duty (750 Lb. Rating)	2,484.00
XB	Bariatric (1,000 Lb. Rating)	4,170.00
Auxiliary Inlet Options		**Add**
JL	2" Female Thread Left Hand Auxiliary Inlet	494.00
JR	2" Female Thread Right Hand Auxiliary Inlet	494.00
JJ	Dual 2" Female Threaded Auxiliary Inlets	990.00
Suffix Options		**Deduct**
M14	FMBO Fitting Only (Less Faceplate)	(913.00)
M15	FMBO w/ Fitting Support	(100.00)

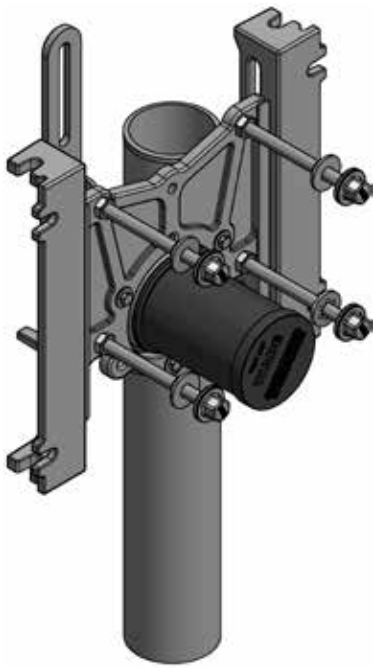
WADE

FIXTURE SUPPORTS

360 Fixed Offset Vertical Fixed Water Closet Support (No-Hub)



ASME LOAD RATING - 300 LB.



360-NL4

Model	Wt. Lbs.	Regularly Furnished	Connection Type	Pipe Size
360-NL4	60.0	$ 1,936.00	No-Hub	Left
360-NR4	60.0	1,936.00	No-Hub	Right
360-ND4	100.0	3,320.00	No-Hub	Double

Suffix Options		Add	
Suffix	**Description**	**Single**	**Double**
ECC11	Extended Coupling & Hardware (11")	N/C	N/C
ECC14	Extended Coupling & Hardware (14")	278.00	555.00
ECC24	Extended Coupling & Hardware (24")	1,659.00	3,318.00
FPO	6" Adjustable All Thread ABS Coupling	N/C	N/C
FPO/ECC14	14" Adjustable All Thread ABS Coupling	278.00	555.00

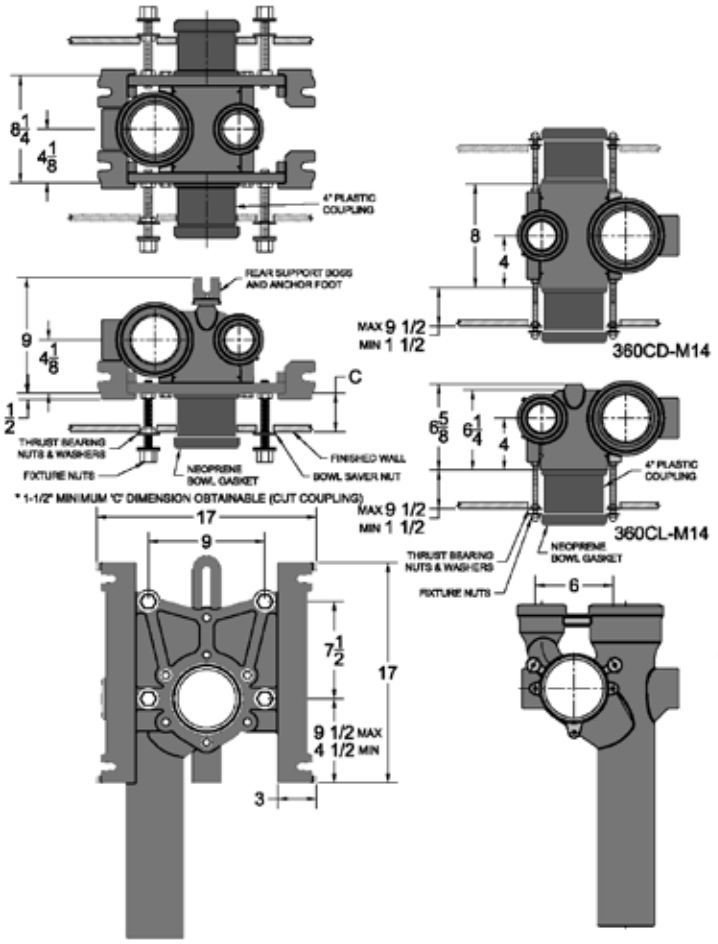
Regularly Furnished: Fixed, vertical siphon jet water closet support provides a rigid system with No-Hub connections. Comes complete with painted cast iron right-hand, left-hand, or double main fitting, 2" vent, fixed faceplate, universal floor mounted foot supports, corrosion resistant polymer coupling with integral test cap, fixture studs, trim, and stud protectors. Includes rear anchor tie down and bowl gasket.

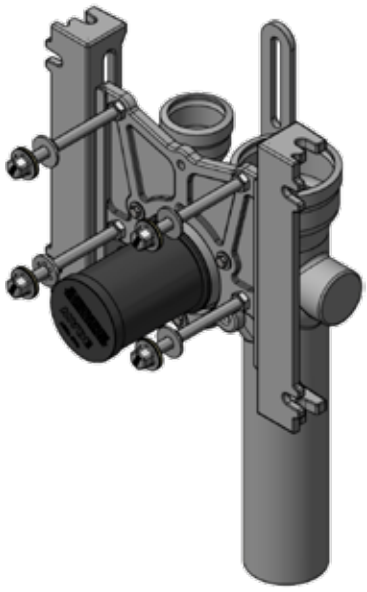
Faceplate Variations		Add	
Suffix	**Description**	**Single**	**Double**
HD	Heavy Duty (500 Lb. Rating)	$ 357.00	$ 714.00
XH	Extra Heavy Duty (750 Lb. Rating)	2,484.00	4,263.00
XB	Bariatric (1,000 Lb. Rating)	4,170.00	8,340.00
Suffix Options		**Add**	
AM1	Flush Valve Support	$ 122.00	$ 244.00
AM21	Tiling Flange	116.00	231.00
M3	Vandal Proof Hardware	185.00	370.00
M4	Rod Support Feet (Req'd for ECC)	439.00	878.00
M26	Adjustable Cast Iron Coupling	N/C	N/C
Floor Mount Back Outlet Variations		**Deduct**	
M14	FMBO Fitting Only (Less Faceplate)	(913.00)	(1,827.00)
M15	FMBO w/ Fitting Support	(100.00)	(201.00)
Auxiliary Inlets		**Add**	
JS	2" Stack Side No-Hub Inlet	494.00	494.00
JV	2" Vent Side 45° No-Hub Inlet	494.00	494.00
JJ	2" No-Hub Inlets (Both Sides)	990.00	990.00

FIXTURE SUPPORTS

360 Fixed Offset Vertical Water Closet Support (Hub & Spigot)

ASME LOAD RATING - 300 LB.





360-CL4

Model	Wt. Lbs.	Regularly Furnished	Connection Type	Pipe Size
360-CL4	75.0	$ 1,999.00	Hub & Spigot	Left
360-CR4	75.0	1,999.00	Hub & Spigot	Right
360-CD4	106.0	3,425.00	Hub & Spigot	Double

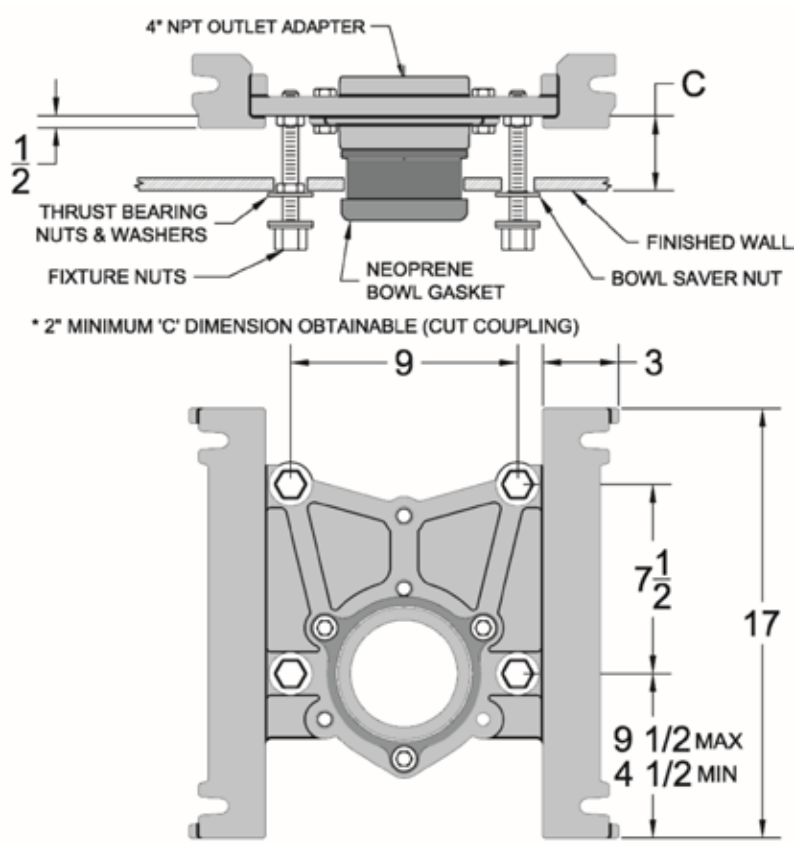
Suffix Options		Add	
Suffix	**Description**	**Single**	**Double**
ECC11	Extended Coupling & Hardware (11")	N/C	N/C
ECC14	Extended Coupling & Hardware (14")	278.00	555.00
ECC24	Extended Coupling & Hardware (24")	1,659.00	3,318.00

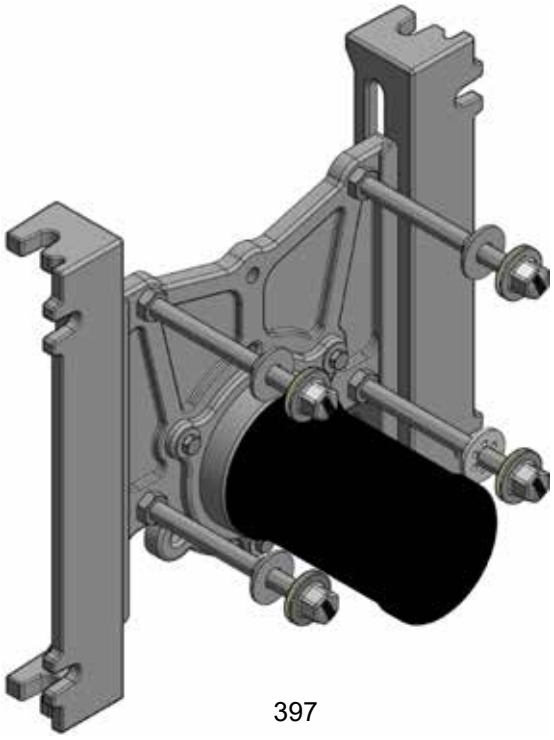
Regularly Furnished: Fixed, vertical siphon jet water closet support provides a rigid system with hub & spigot connections. Comes complete with painted cast iron right-hand, left-hand, or double main fitting, 2" vent, fixed faceplate, universal floor mounted foot supports, corrosion resistant polymer coupling with integral test cap, fixture studs, trim, and stud protectors. Includes rear anchor tie down and bowl gasket.

Faceplate Variations		Add	
Suffix	**Description**	**Single**	**Double**
HD	Heavy Duty (500 Lb. Rating)	$ 357.00	$ 714.00
XH	Extra Heavy Duty (750 Lb. Rating)	2,484.00	4,263.00
XB	Bariatric (1,000 Lb. Rating)	4,170.00	8,340.00
Suffix Options		**Add**	
AM1	Flush Valve Support	$ 122.00	$ 244.00
AM21	Tiling Flange	116.00	231.00
M3	Vandal Proof Hardware	185.00	370.00
M4	Rod Support Feet (Req'd for ECC)	439.00	878.00
M26	Adjustable Cast Iron Coupling	N/C	N/C
Floor Mount Back Outlet Variations		**Deduct**	
M14	FMBO Fitting Only (Less Faceplate)	(913.00)	(1,827.00)
M15	FMBO w/ Fitting Support	(100.00)	(201.00)
Auxiliary Inlets		**Add**	
JS	2" Stack Side No-Hub Inlet	494.00	494.00
JV	2" Vent Side 45° No-Hub Inlet	494.00	494.00
JJ	2" No-Hub Inlets (Both Sides)	990.00	990.00

397 Closet Carrier Without Fitting

ASME LOAD RATING - 300 LB.





397

Regularly Furnished: Cast iron closet carrier face plate with adjustable feet, 4” NPT waste connection adapter, ABS coupling, neoprene bowl gasket, fixture support studs, chrome plated cap nuts and zinc plated hardware. Base must be securely anchored to concrete floor with 1/2” anchors (furnished by others) If rod support feet are provided, they must be anchored to floor. Maximum ‘C’ Dimension is 6” with standard hardware. Longer couplings available when specified.

Model	Wt. Lbs.	Regularly Furnished	Connection Type
397	38.6	$ 1,175.00	4" NPT Adapter

Suffix Options		Add	
Suffix	Description	Single	Double
ECC11	Extended Coupling & Hardware (11" Cplg.)	N/C	N/C
ECC14	Extended Coupling & Hardware (14" Cplg.)	$ 278.00	$ 555.00
ECC24	Extended Coupling & Hardware (24" Cplg.)	1,659.00	3,318.00

Suffix Options		Add
AM1	Flush Valve Support	$ 122.00
AM21	Tiling Frame	116.00
M3	Vandal Proof Hardware	185.00
M4	Rod Support Feet (Req'd for ECC)	439.00
M26	Adjustable Cast Iron Coupling	N/C

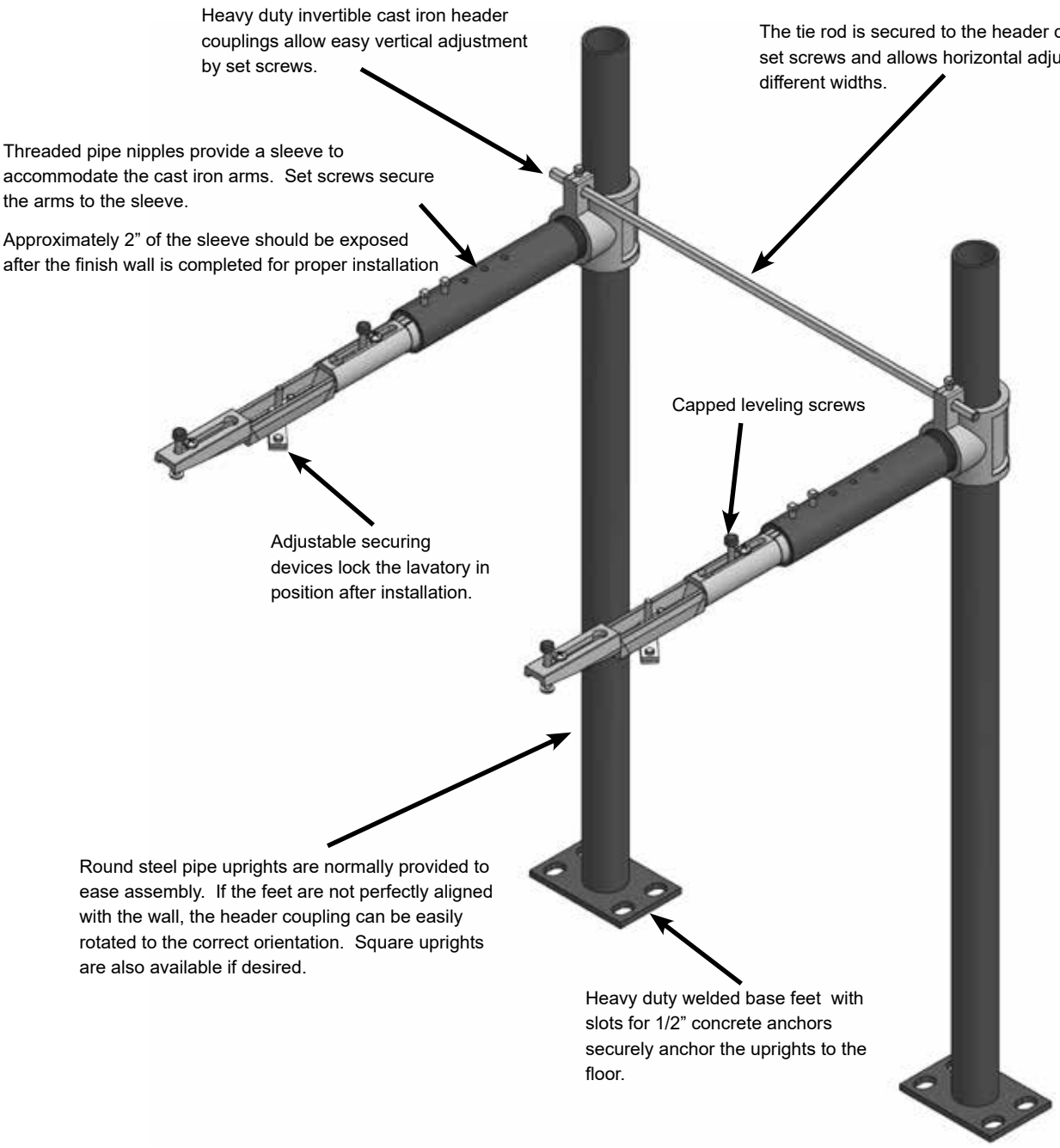
**Dimensions vary from illustration*

Installation Note: For ASME load rating, additional support is required by securing feet and faceplate to the building support structure. If additional support is not available or is inadequate, M4 rod support feet are recommended.

FIXTURE SUPPORTS

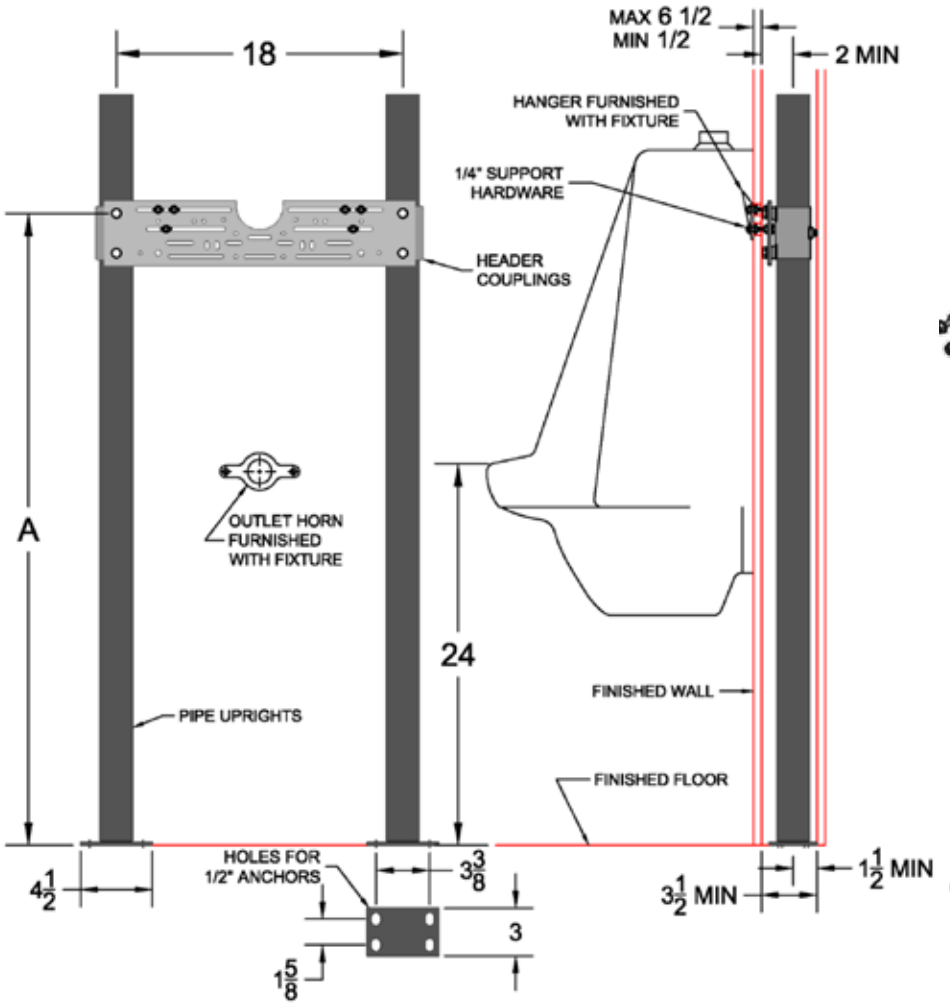
General Product Information

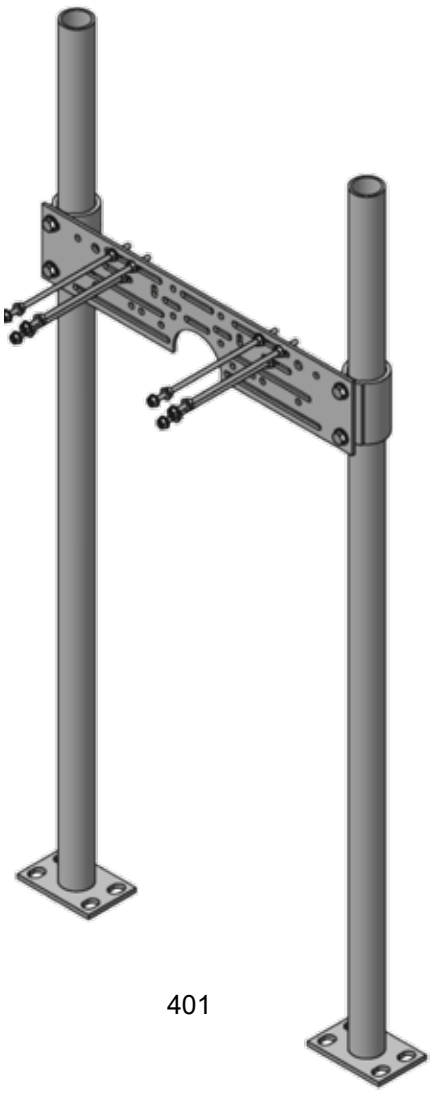
520 Concealed Arm Lavatory Carrier



Wade concealed arm fixture supports secure and support lavatories by means of cast iron arms with leveling and securing devices. By virtue of their modular design, they accommodate all types of lavatories punched for concealed arms. Cast iron arms are furnished as pairs, in various lengths and styles dependent upon lavatory size. The leveling and securing methods are the same for each arm length. After the carrier is installed and the walls are completed, the pipe sleeves and arm assemblies are adjusted to accommodate the specified lavatory. The installation is completed by sliding the lavatory over the arms, leveling it through the access holes and securely locking it in place with the securing devices.

401 Urinal Carrier





401

ASME LOAD RATING - TYPE II 200 LB.

Model	Configuration	List Price	Wt. Lbs.
401	Single	$ 1,022.00	30.0
401-D	Double (Back to Back)	1,355.00	35.0

Regularly Furnished: Plate type urinal carrier with round steel uprights, hanger support plate & rectangular base feet.

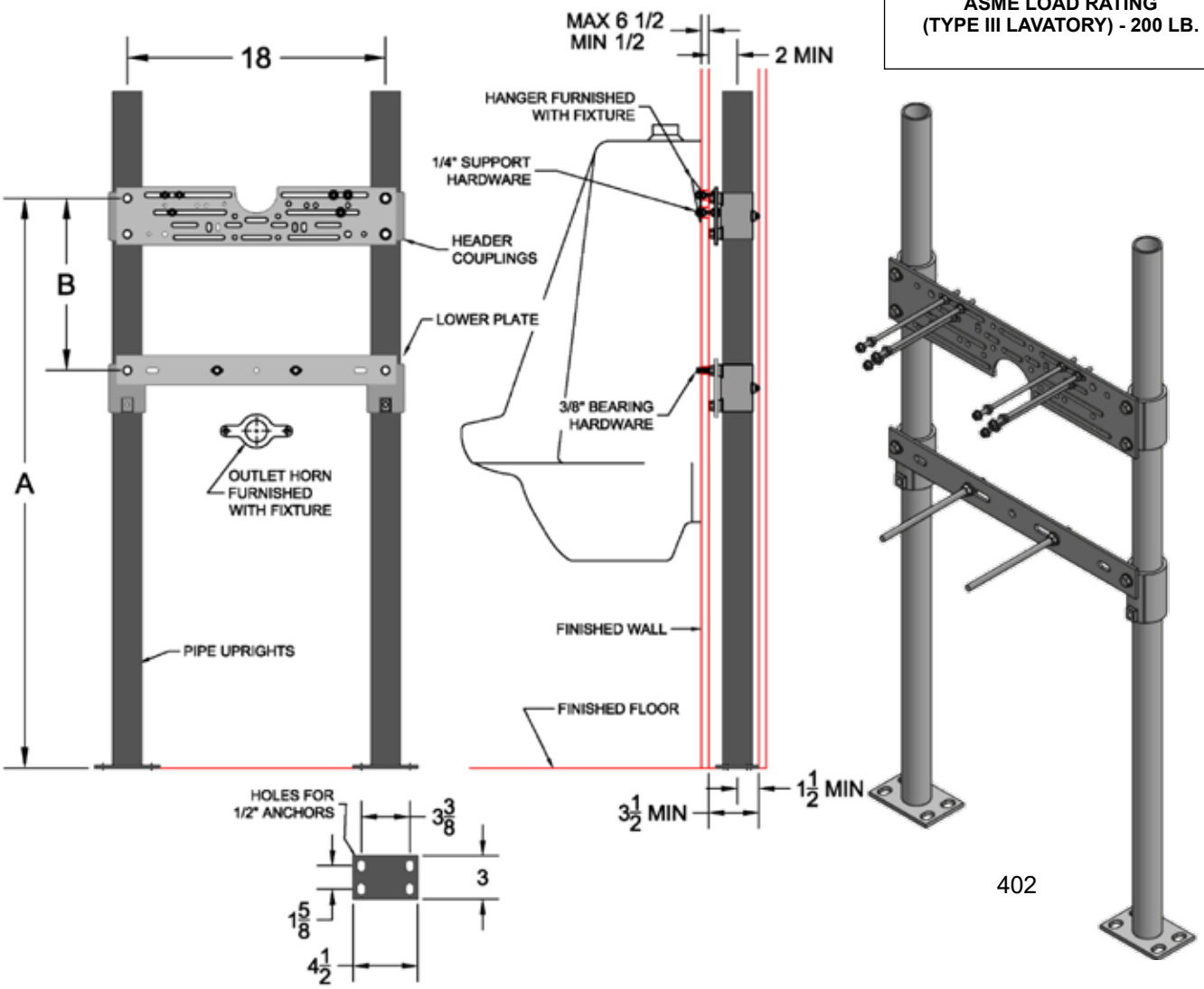
Suffix Options		Add	
Suffix	Description	401	401-D
AM1	Flush Valve Support *	$ 122.00	$ 244.00
M3	Vandal Proof Hardware	185.00	370.00
M4	Longer Hardware for Thicker Walls (Per in)	72.00	143.00
M18	Extra Long Upright	1,359.00	1,359.00
M36	Rectangular Uprights	N/C	N/C

**Dimensions vary from illustration*

FIXTURE SUPPORTS

402 Urinal Carrier (With Lower Bearing Support)

ASME LOAD RATING
(TYPE III LAVATORY) - 200 LB.



Model	Configuration	List Price	Wt. Lbs.
402	Single	$ 1,143.00	30.0
402-D	Double (Back to Back)	1,593.00	42.0

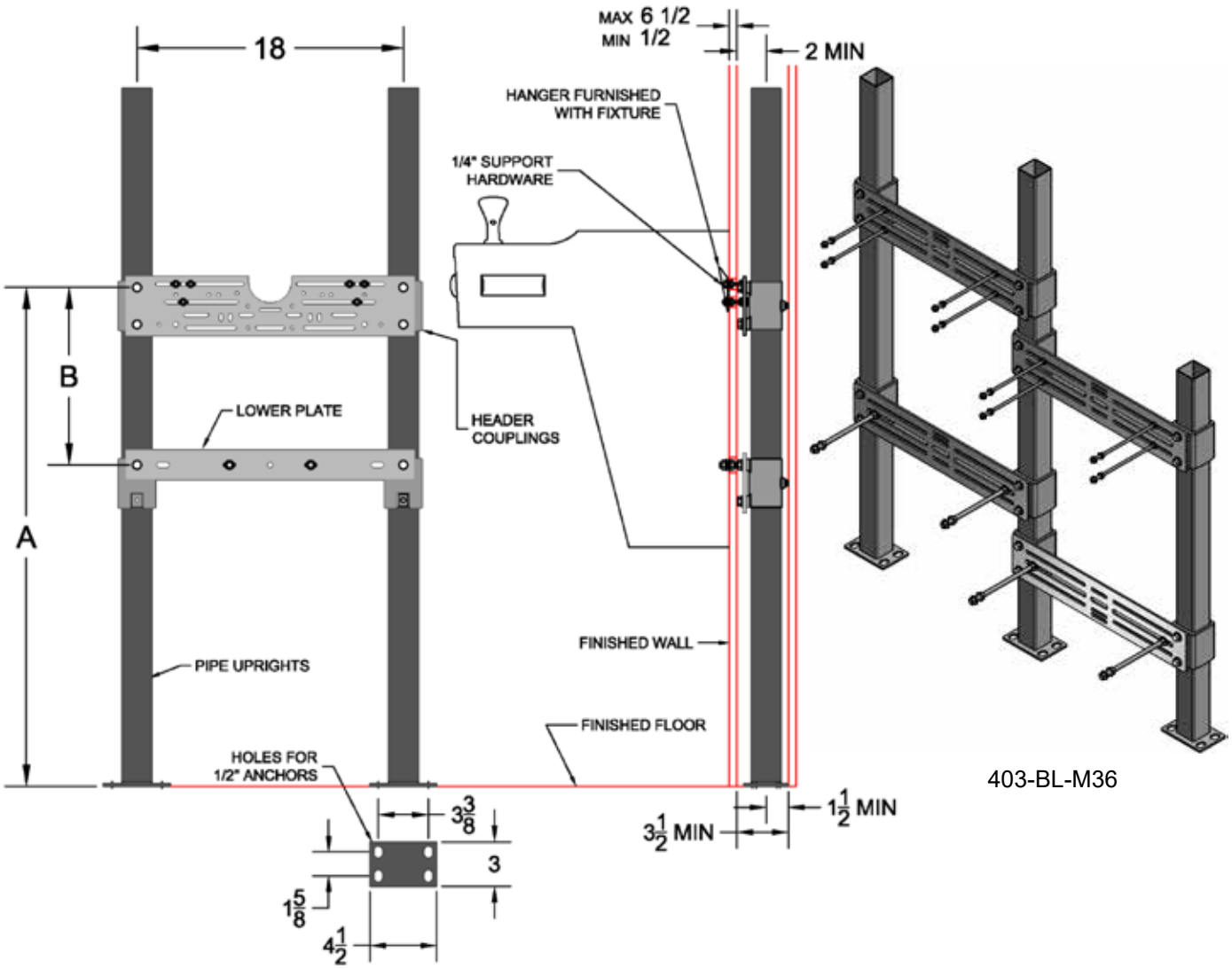
Regularly Furnished: Plate type urinal carrier with round steel uprights, upper hanger support plate, lower bearing plate & rectangular base feet.

Suffix Options		Add	
Suffix	Description	402	402-D
AM1	Flush Valve Support *	$ 122.00	$ 244.00
M3	Vandal Proof Hardware	185.00	370.00
M4	Longer Hardware for Thicker Walls (Per in)	72.00	143.00
M18	Extra Long Upright	1,359.00	1,359.00
M36	Rectangular Uprights	N/C	N/C

**Dimensions vary from illustration*

403 Drinking Fountain / Water Cooler Carrier

ASME LOAD RATING (TYPE III WATER COOLER) - 200 LB.



403-BL-M36

Model	Configuration	List Price	Wt. Lbs.
403	Single	$ 1,143.00	37.0
403-D	Double (Back to Back)	1,593.00	42.0

Regularly Furnished: Plate type drinking fountain / water cooler carrier with round steel uprights, upper hanger support plate, lower support plate & rectangular base feet.

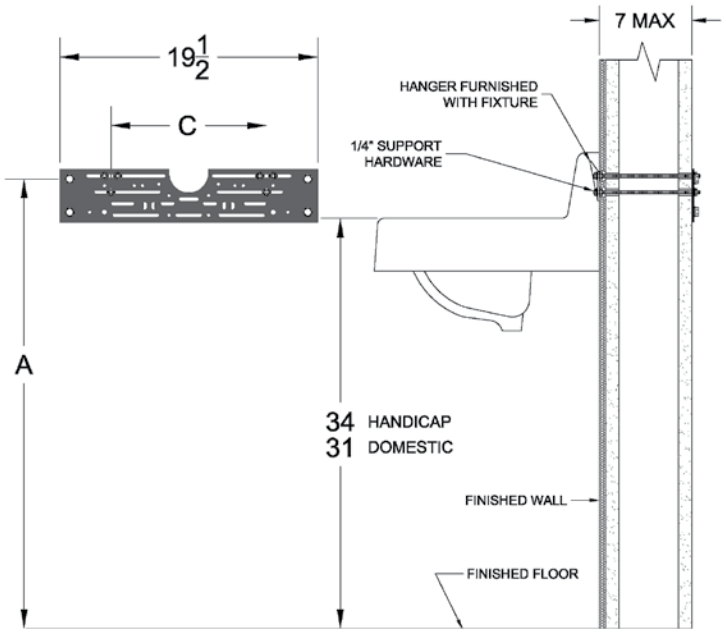
Suffix Options		Add	
Suffix	Description	403	403-D
BL	Bi-Level Fountain / Cooler Support	$ 529.00	$ 1,055.00
BFS	Support for Bottle Filling Station *	499.00	995.00
M3	Vandal Proof Hardware	185.00	370.00
M4	Longer Hardware for Thicker Walls (Per in)	72.00	143.00
M18	Extra Long Upright	1,359.00	1,359.00
M36	Rectangular Uprights	N/C	N/C

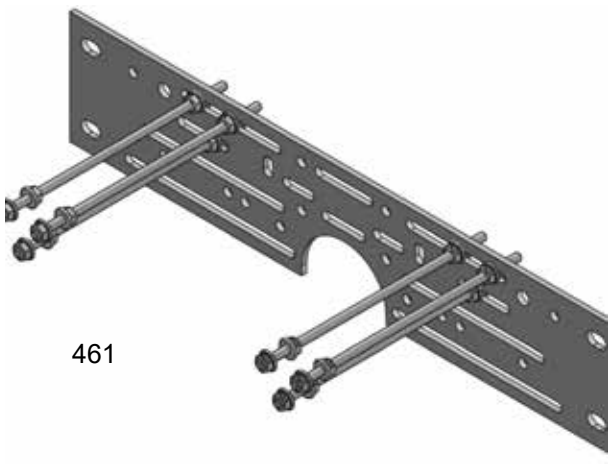
Suffix	Description	Deduct	
LBP	Less Lower Bearing Plate	(119.00)	(240.00)

**Dimensions vary from illustration*

FIXTURE SUPPORTS

461 Wall Mounted Plate Support



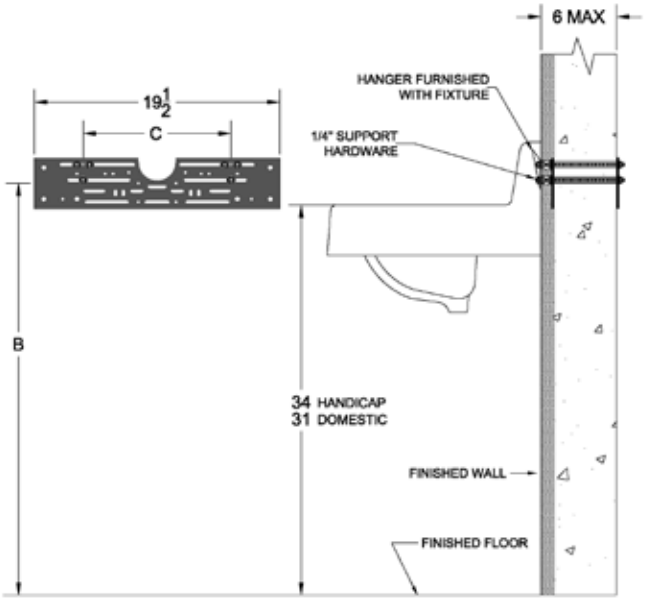


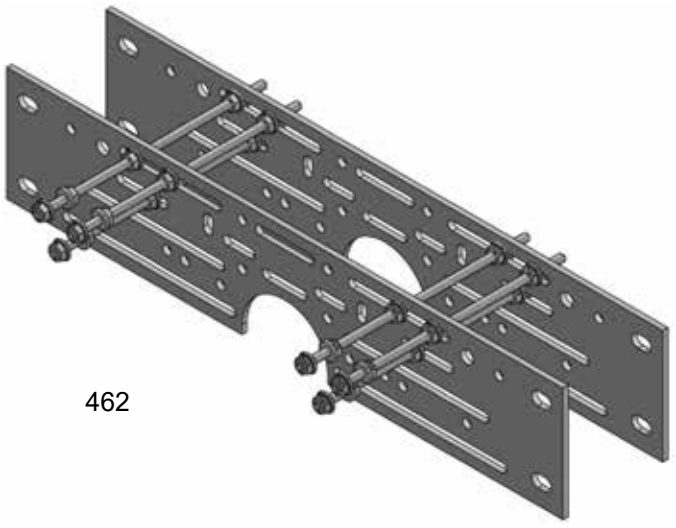
Regularly Furnished: Universal plate type fixture support plate with hardware.

Model	Regularly Furnished	Wt. Lbs.
461	$ 284.00	7.0

Suffix Options		
Suffix	**Description**	**Add**
AM11	Lower Bearing Plate	$ 170.00
M3	Vandal Proof Hardware	185.00

462 Wall Mounted Plate Support





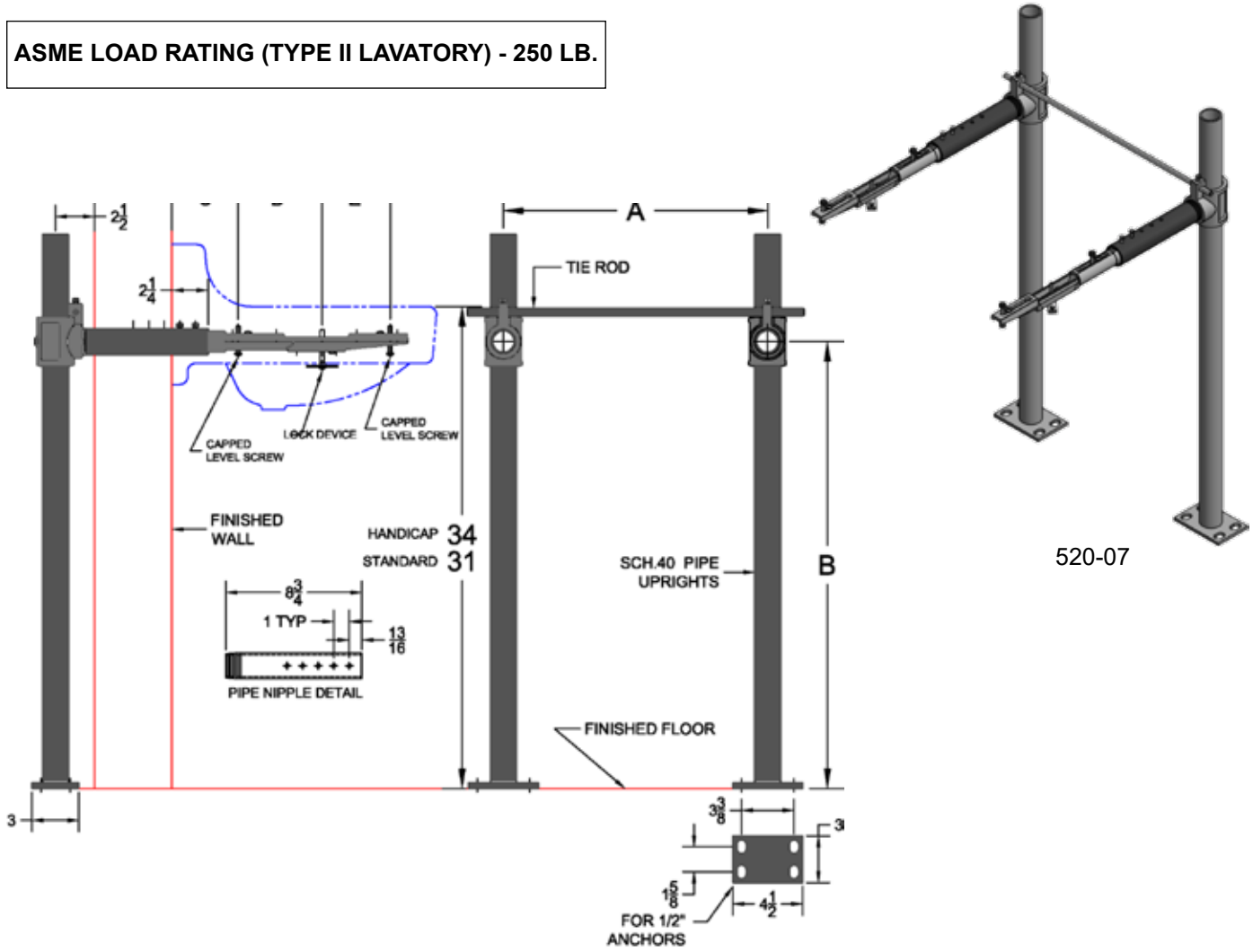
Model	Regularly Furnished	Wt. Lbs.
462	$ 347.00	14.0

Regularly Furnished: Universal plate type fixture support plate with hardware.

Suffix Options		
Suffix	**Description**	**Add**
AM11	Lower Bearing Plate	$ 217.00
M3	Vandal Proof Hardware	185.00

520 Lavatory Carrier (Concealed Arms)

ASME LOAD RATING (TYPE II LAVATORY) - 250 LB.



520-07

Model	Configuration	List Price	Wt. Lbs.
520	Single	$ 1,355.00	36.0
520-D	Double (Back to Back)	1,923.00	45.0

Regularly Furnished: Single lavatory carrier with round uprights, rectangular base feet, cast iron concealed arms & non-slip locking devices

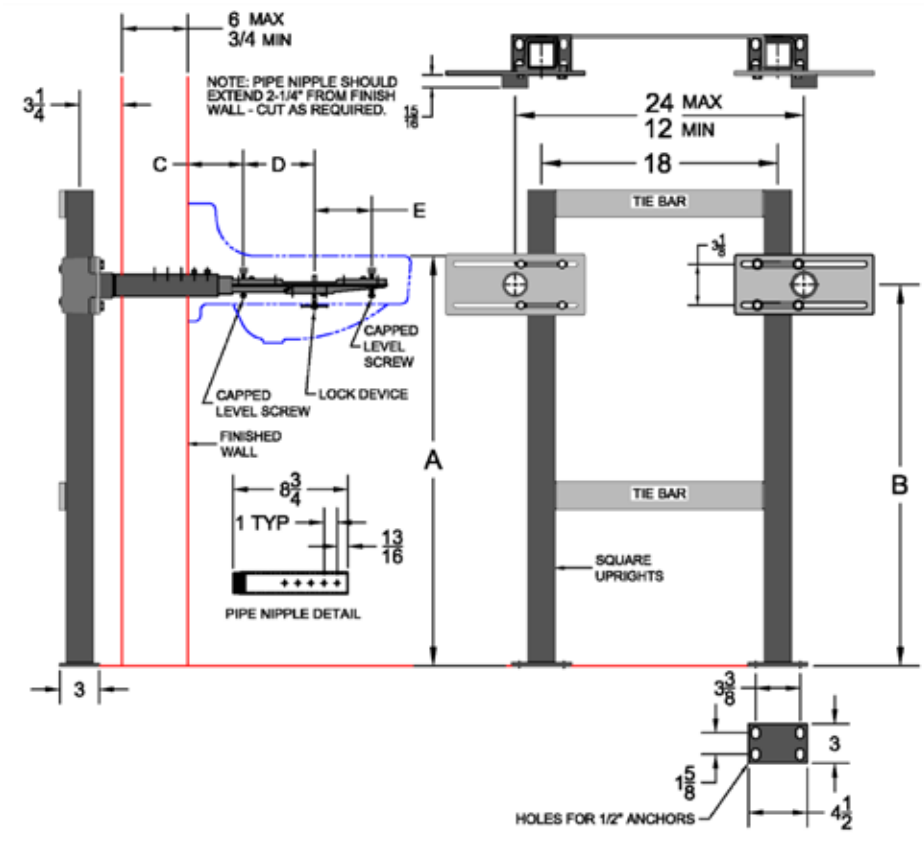
Suffix Options		Add	
Suffix	**Description**	**520**	**520-D**
AM27	Valve Support Plate on Upright * (Specify Valve)	$ 207.00	$ 414.00
M18	Extra Long Uprights *	1,359.00	1,359.00
M19	Eye Bolts for C.I. Lavatories w/ Lugs	N/C	N/C
M23	2" Chrome Plated Escutcheons *	226.00	452.00
M23/4	4" Chrome Plated Escutcheons *	409.00	817.00
M23/6	6" Chrome Plated Escutcheons *	409.00	817.00
M24	Wheelchair Lavatory Installation *	88.00	175.00
M25	Longer Rear Leveling Screws (High Back Lav)	N/C	N/C
M36	Rectangular Uprights *	N/C	N/C
SC43	Shroud Support *	198.00	395.00

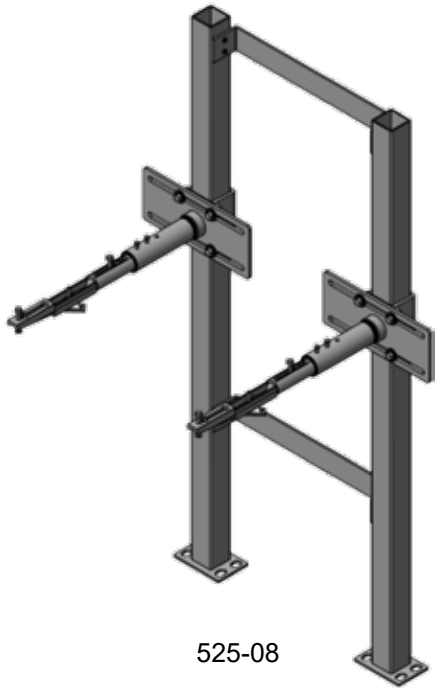
**Dimensions vary from illustration*

FIXTURE SUPPORTS

525 Lavatory Carrier (Concealed Arms)

ASME LOAD RATING (TYPE II LAVATORY) - 250 LB.





525-08

Model	Configuration	List Price	Wt. Lbs.
525	Single	$ 1,651.00	40.2
525-D	Double (Back to Back)	2,409.00	50.0

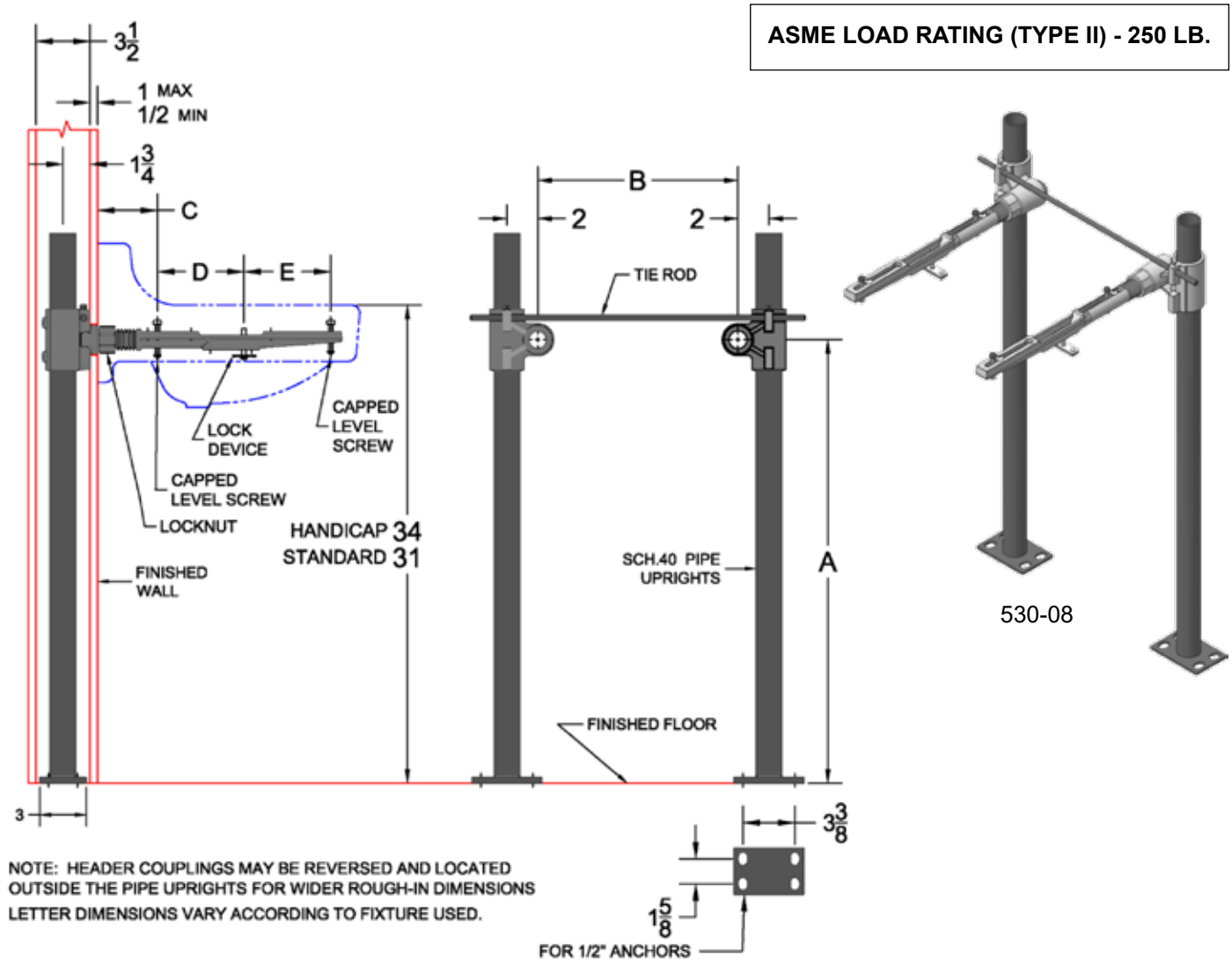
Regularly Furnished: Single lavatory carrier with rectangular uprights, rectangular base feet, cast iron concealed arms, adjustable plates & non-slip locking devices.

Suffix Options		Add	
Suffix	**Description**	**520**	**520-D**
AM27	Valve Support Plate on Upright * (Specify Valve)	$ 207.00	$ 414.00
M18	Extra Long Uprights *	1,359.00	1,359.00
M19	Eye Bolts for C.I. Lavatories w/ Lugs	N/C	N/C
M23	2" Chrome Plated Escutcheons *	226.00	452.00
M23/4	4" Chrome Plated Escutcheons *	409.00	817.00
M23/6	6" Chrome Plated Escutcheons *	409.00	817.00
M24	Wheelchair Lavatory Installation *	88.00	175.00
M25	Longer Rear Leveling Screws (High Back Lav)	N/C	N/C
M36	Rectangular Uprights *	N/C	N/C
SC43	Shroud Support *	198.00	395.00

**Dimensions vary from illustration*

530 Lavatory Carrier (Concealed Arms)

ASME LOAD RATING (TYPE II) - 250 LB.



530-08

Model	List Price	Wt. Lbs.
530	$ 1,355.00	38.0

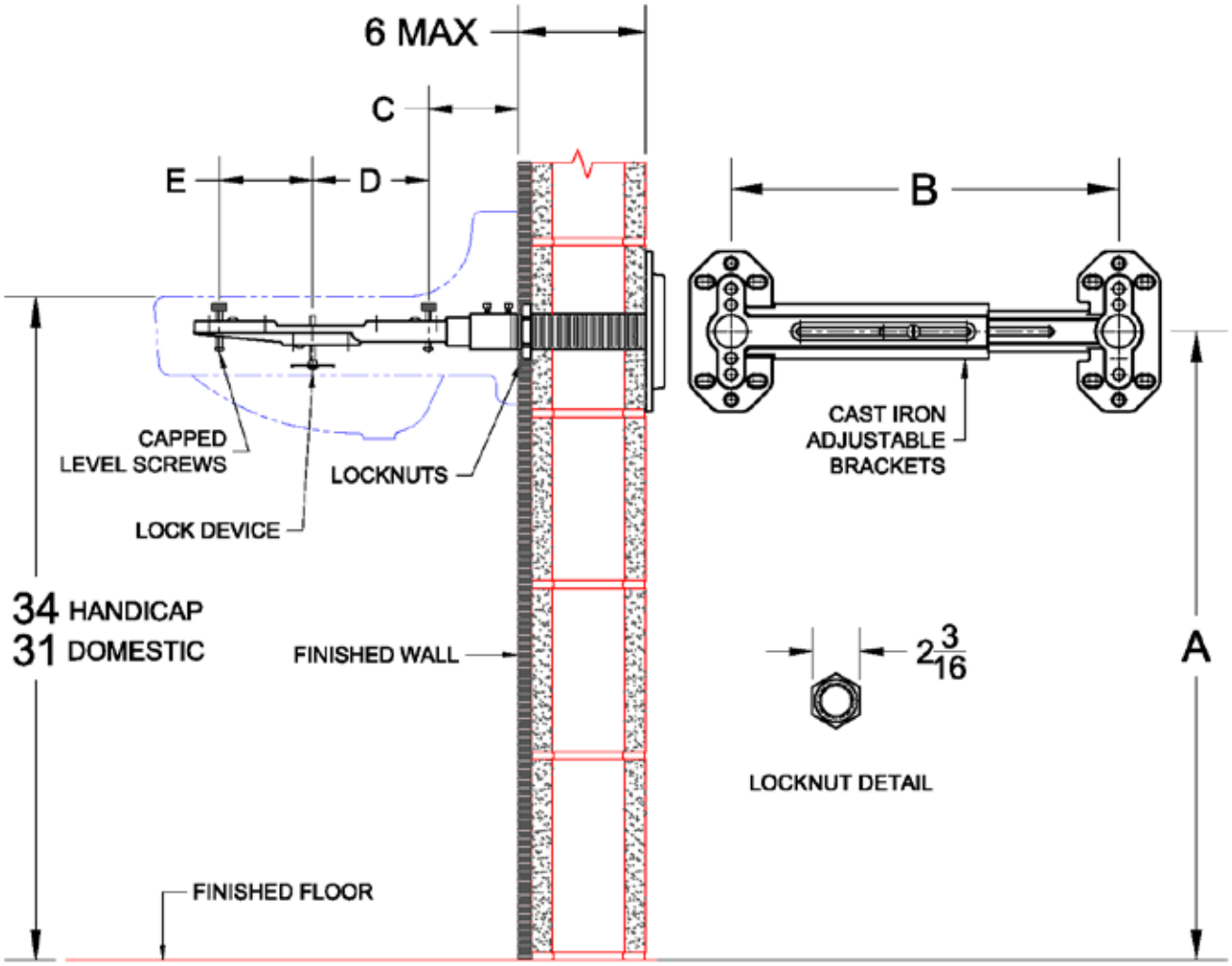
Regularly Furnished: Single lavatory carrier with rectangular uprights, rectangular base feet, cast iron concealed arms, offset header couplings & non-slip locking devices.

Suffix Options		Add	
Suffix	**Description**	**520**	**520-D**
AM27	Valve Support Plate on Upright * (Specify Valve)	$ 207.00	$ 414.00
M18	Extra Long Uprights *	1,359.00	1,359.00
M19	Eye Bolts for C.I. Lavatories w/ Lugs	N/C	N/C
M25	Longer Rear Leveling Screws (High Back Lav)	N/C	N/C
M36	Rectangular Uprights *	N/C	N/C

**Dimensions vary from illustration*

FIXTURE SUPPORTS

573 Wall Mounted Lavatory Support



Model	List Price	Wt. Lbs.
573	$ 802.00	18.0

Regularly Furnished: Wall mounted lavatory support with cast iron concealed or exposed arms, & adjustable brackets.

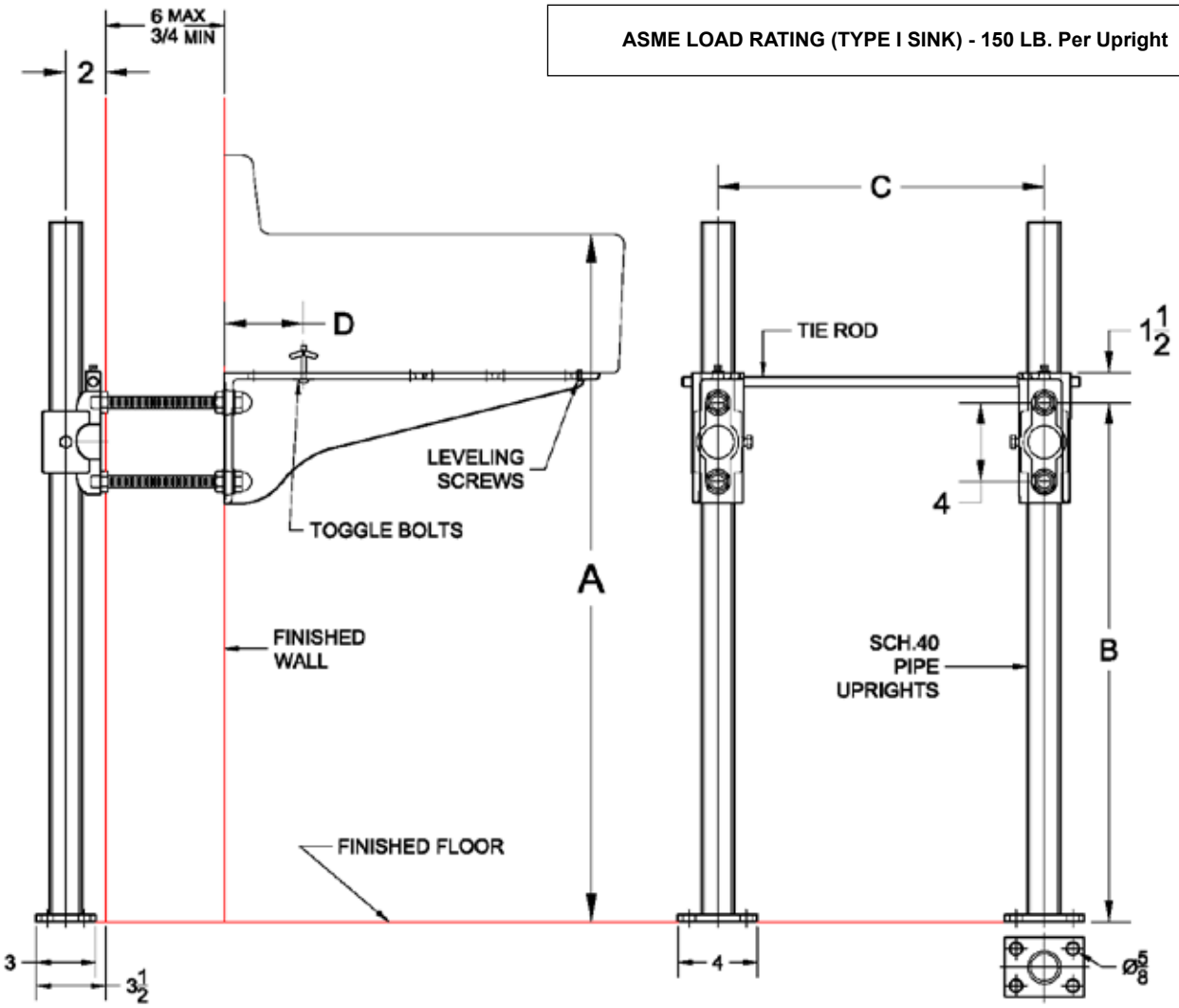
Suffix Options		
Suffix	**Description**	**Add**
M23	2" Chrome Plated Escutcheons *	226.00
M24	Wheelchair Lavatory Installation *	88.00
M25	Longer Rear Leveling Screws (High Back Lav)	N/C



573-07

610 Sink Carrier (Exposed Arms)

ASME LOAD RATING (TYPE I SINK) - 150 LB. Per Upright



Model	Configuration	List Price	Wt. Lbs.
610	Single	$ 1,923.00	60.0
610-D	Double (Back to Back)	3,126.00	125.0
613	Wash Station Deck (3 Supports)	3,125.00	90.0

Regularly Furnished: Single sink carrier with round uprights, rectangular base feet, & A.R. coated exposed arms.

Suffix Options		
Suffix	**Description**	**Add**
AM27	Valve Support Plate on Upright * (Specify Valve	$ 207.00
AM28	Valve Support Plate Between Arms * (Specify Valve)	217.00
M3	Vandal Proof Finish Hardware	185.00
M4	Longer Hardware for Thicker Walls (per inch)	72.00
M18	Extra Long Uprights *	1,359.00
M36	Rectangular Uprights *	N/C

**Dimensions vary from illustration*

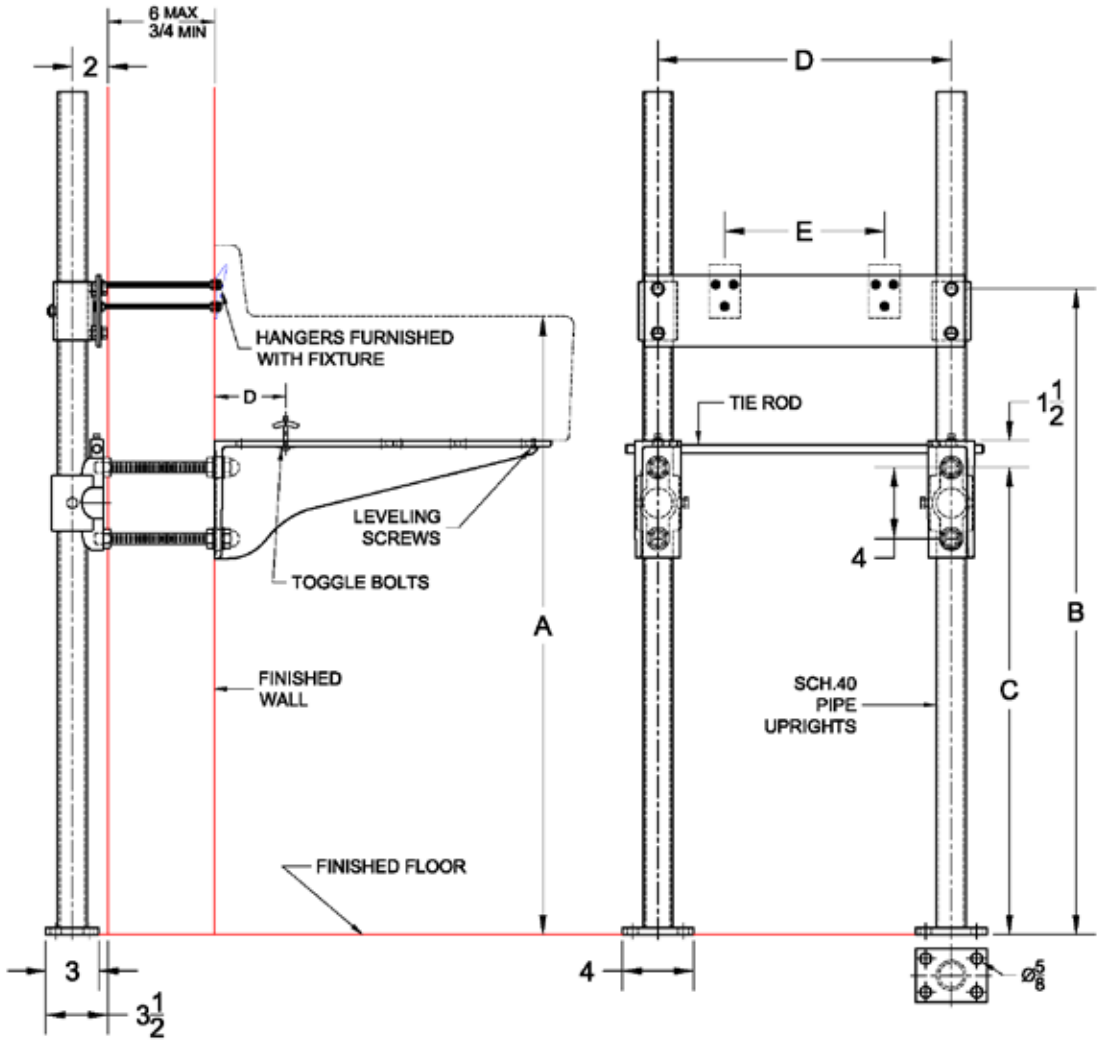


610-02

FIXTURE SUPPORTS

620 Sink Carrier (Exposed Arms)

ASME LOAD RATING (TYPE III SINK) - 150 LB. Per Upright



Model	Configuration	List Price	Wt. Lbs.
620	Single	$ 3,670.00	71.0
623	Longer Sinks (3 Supports)	5,059.00	107.0

Regularly Furnished: Single sink carrier with round uprights, rectangular base feet, cast iron header couplings, mounting fasteners & A.R. cast iron exposed arms.

Suffix Options		
Suffix	**Description**	**Add**
AM27	Valve Support Plate on Upright * (Specify Valve	$ 207.00
AM28	Valve Support Plate Between Arms * (Specify Valve)	217.00
M3	Vandal Proof Finish Hardware	185.00
M4	Longer Hardware for Thicker Walls (per inch)	72.00
M18	Extra Long Uprights *	1,359.00
M36	Rectangular Uprights *	N/C



620-02

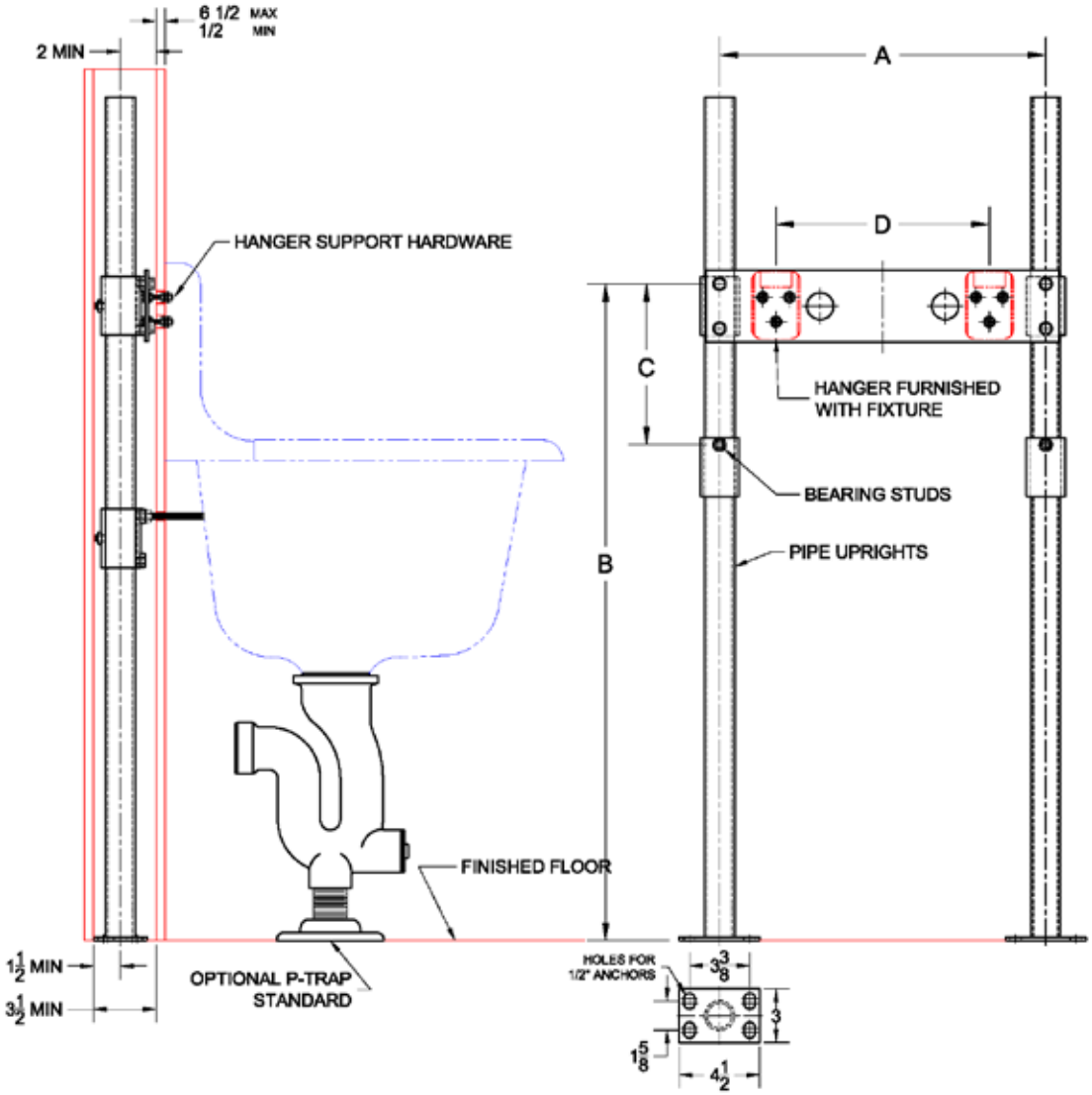
**Dimensions vary from illustration*

WADE

FIXTURE SUPPORTS

630 Trough Urinal & Sink Carrier

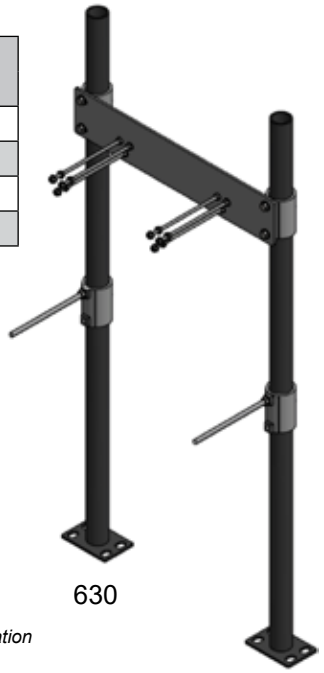
ASME LOAD RATING (TYPE II SINK) - 100 LB. Per Upright



Model	Configuration	List Price Single	Wt. Lbs.	List Price Back-To-Back	Wt. Lbs.
630	Upper Plate w/ Bearing Studs	$ 2,621.00	70.0	$ 3,013.00	115.0
630-AM11	w/ Lower Plate	2,734.00	84.0	3,283.00	143.0
633	Longer Trough (3 Supports)	3,125.00	105.0	3,745.00	185.0
633-AM11	3 Supports w/ Lower Plate	3,575.00	119.0	4,268.00	213.0

Regularly Furnished: Single plate type sink/urinal carrier for troughs up to 5' long with round uprights, rectangular base feet and cast iron header couplings.

Suffix Options		
Suffix	**Description**	**Add**
AM27	Valve Support Plate on Upright * (Specify Valve	$ 207.00
M18	Extra Long Uprights *	1,359.00
M36	Rectangular Uprights *	N/C
TS2	2" IPS Cast Iron Trap Standard	1,090.00
TS3	3" IPS Cast Iron Trap Standard	1,090.00



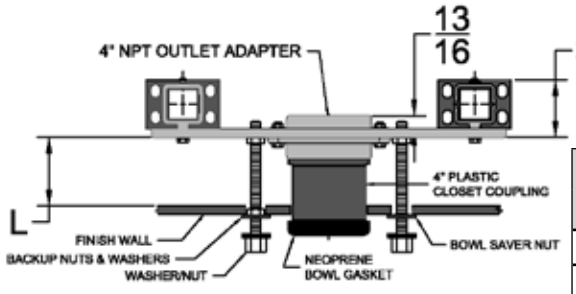
630

**Dimensions vary from illustration*

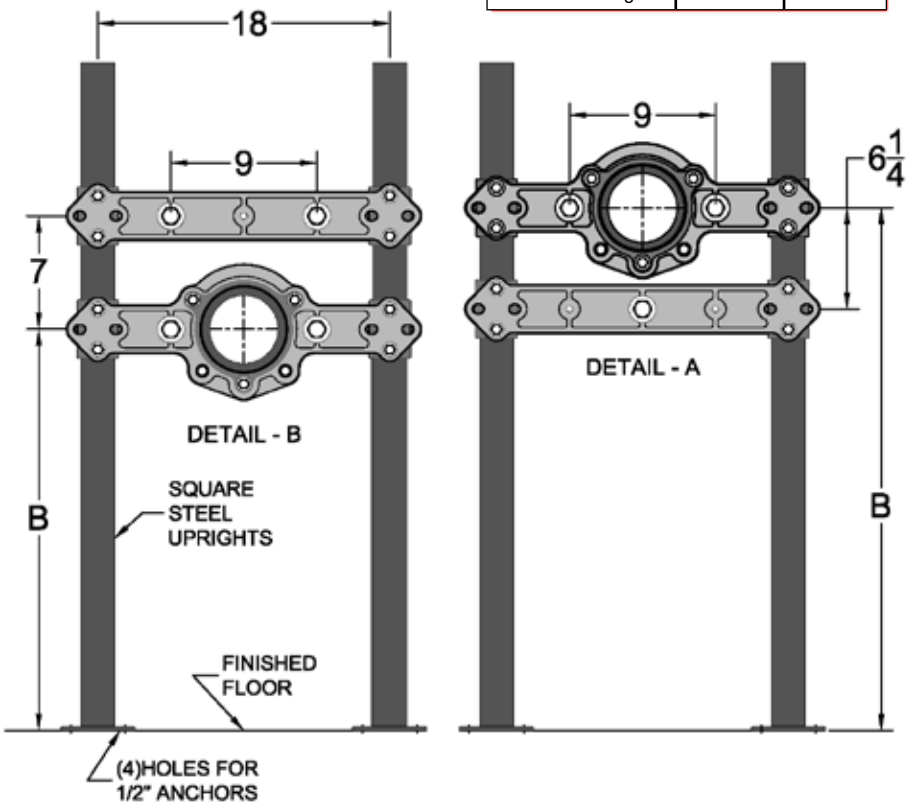
FIXTURE SUPPORTS

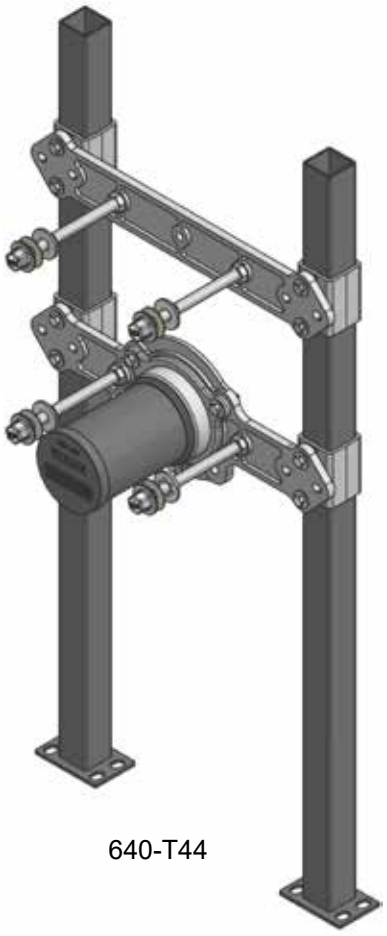
640 Clinical Sink / Urinal Carrier

ASME LOAD RATING (TYPE IV SINK) - 300 LB.



Style	L	
	Min.	Max.
Carrier w/ Adapter	2-1/4	11-1/4
Carrier w/ Fitting	1-1/2	9-1/2





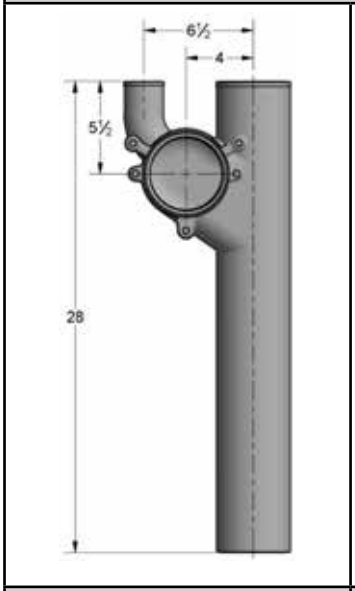
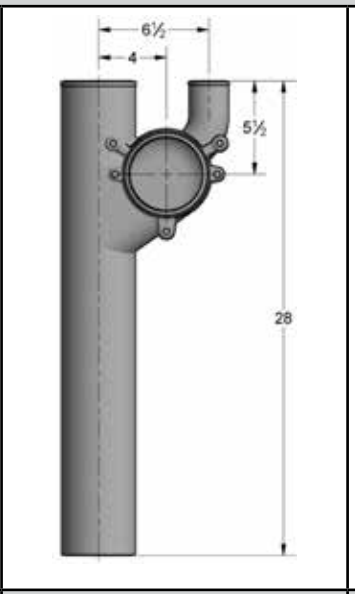
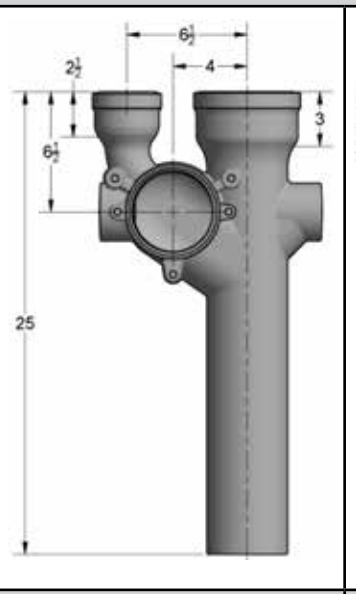
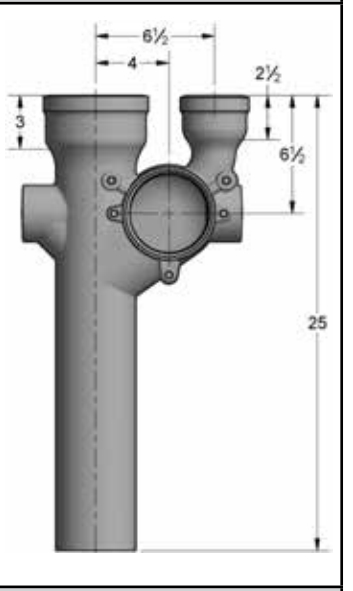
640-T44

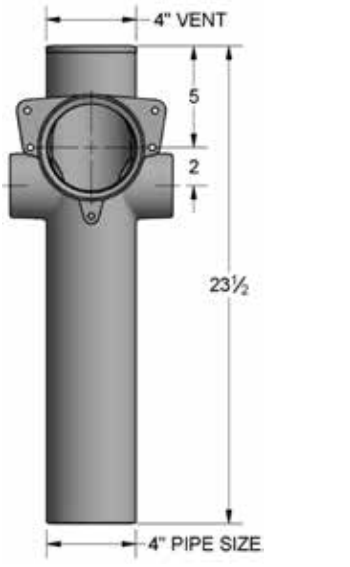
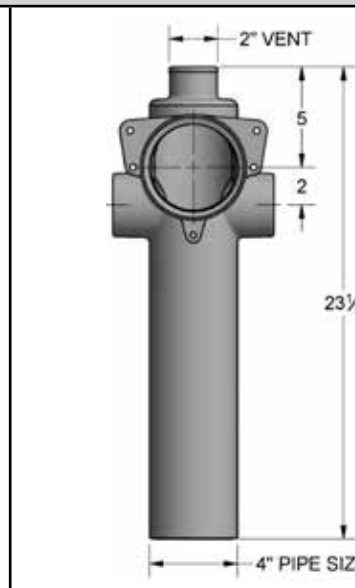
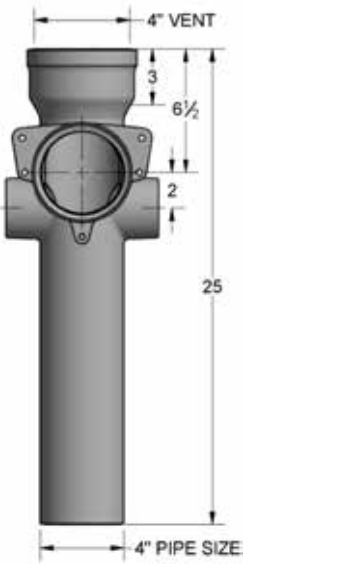
Regularly Furnished: Clinical sink / urinal carrier with rectangular uprights, base feet cast iron header couplings, cast iron support brackets, zinc plated support studs, mounting hardware, threaded outlet adapter, chrome plated fixture nuts and neoprene bowl gasket.

Model	Configuration	List Price	Wt. Lbs.
640-T44	4" NPT Outlet (Fitting By Others)	$ 1,633.00	44.8
640-N42	w/ On Stack No-Hub Fitting (4" Waste 2" Vent)	1,958.00	71.8
640-N44	w/ On Stack No-Hub Fitting (4" Waste 2" Vent)	1,958.00	72.8
640-C44	w/ On Stack No-Hub Fitting (4" Waste 4" Vent)	2,005.00	74.8
640-NR42	w/ Offset No-Hub Fitting (RH) (4" Waste 2" Vent)	3,530.00	83.0
640-NL42	w/ Offset No-Hub Fitting (LH) (4" Waste 2" Vent)	3,530.00	83.0
640-CR42	w/ Offset Hub & Spigot (RH) (4" Waste 2" Vent)	3,596.00	84.8
640-CL42	w/ Offset Hub & Spigot (LH) (4" Waste 2" Vent)	3,596.00	84.8

Suffix Options		
Suffix	Description	Add
AM1	Flush Valve Support	$ 122.00
AM21	Tiling Frame	116.00
ECC11	Extended Coupling & Hardware (11")	N/C
ECC14	Extended Coupling & Hardware (14")	278.00
ECC24	Extended Coupling & Hardware (24")	1,659.00
M3	Vandal Proof Finish Hardware	185.00
M18	Extra Long Uprights	1,359.00
JJ	Dual 2" Auxiliary Inlets (w/ Fitting)	990.00
JL	2" Left Hand Auxiliary Inlet (w/ Fitting)	494.00
JR	2" Right Hand Auxiliary Inler (w/ Fitting)	494.00

640 Clinical Sink / Urinal Carrier

Offset Vent Fittings			
			
4" Waste 2" Vent	4" Waste 2" Vent	4" Waste 2" Vent	4" Waste 2" Vent
NL42	**NR42**	**CL42**	**CR42**

On Stack Vent Fittings		
		
N44	**N42**	**C44**