SECTION: 3.20.065
FM1775
1101
Supersedes
0501

Quality Pumps Since 1939

Product information presented here reflects conditions at time of publication. Consult factory regarding discrepancies or inconsistencies.

ZOELLER PUMP CO.

MAIL TO: P.O. BOX 16347 • Louisville, KY 40256-0347
SHIP TO: 3649 Cane Run Road • Louisville, KY 40211-1961
(502) 778-2731 • 1 (800) 928-PUMP • FAX (502) 774-3624

visit our web site:
http://www.zoeller.com

# ZOELLER ON-SITE WASTEWATER PRODUCTS

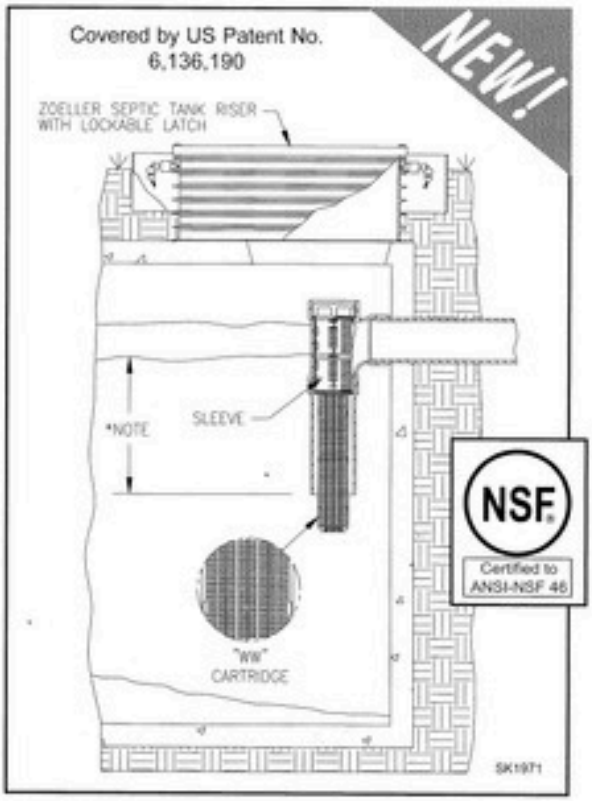
## INTRODUCING ZOELLER SEPTIC SYSTEM FILTERS

## Zoeller "WW" Residential Effluent Filter P/N 170-0078

The Zoeller "WW" residential filter gives your septic system protection like no other. Zoeller Company's patented design keeps your lateral fields safe with twice the filtration area of most residential filters. All of the filtration area is submerged, making the filter 100% effective. The best feature of the WW filter is that the sleeve section of the filter remains in the outlet tee when the main filter is removed for servicing. This will guarantee no solids larger than 1/16" reach the lateral fields during servicing. The Zoeller "WW" filter is ultimate protection.

Improve the performance of your septic system: The number one reason that septic systems fail is because the lateral field becomes clogged. By preventing solids larger than 1/16" from exiting to your drain field, the lifetime of your system can be greatly increased.

Allows only the clearest effluent to leave the tank: Located in the sanitary tee, this filter extends beneath the scum layer, above the sludge layer, and withdraws effluent from the clear water zone of the tank.







Lowers maintenance costs: The filter must be serviced on a periodic basis to maintain peak performance. Under normal circumstances, the filter requires servicing when the septic tank is pumped. However, site specific circumstances may require more frequent service. A Zoeller Riser & Lid will make septic tank and filter maintenance an easy task.

*NOTE: State and local plumbing codes may require a specific liquid penetration. For example, 25% - 45% into the liquid depth or 9" off the tank bottom.

Allows any responsible management entity to monitor the condition of the tank: During routine maintenance, the tank should be inspected to be sure unnecessary particulate is not getting into your tank (i.e. fruit peelings, cigarette filters, feminine hygiene materials, etc.). Check your local plumbing codes to determine how often your tank should be pumped. If sludge buildup becomes apparent on the bottom of your tank, then a more frequent pumping interval is suggested.

P/N 013244

Distributed by:

ZOELLER PUMP CO.

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# Zoeller Residential Septic Tank Effluent Filter Specifications

Application: Single family homes.

Filter Area: 122 Linear Feet of 1/16" filtration.

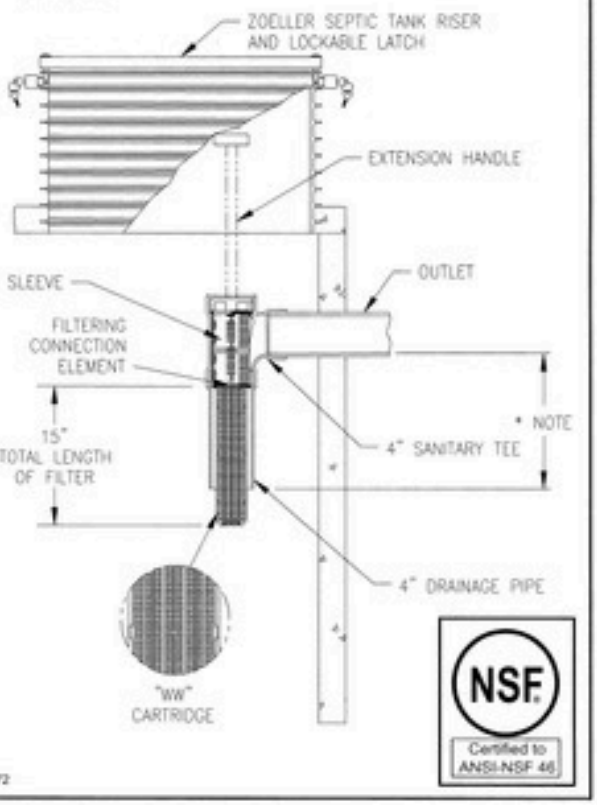
Flow Rate: 1000 gpd.

Material: All materials are noncorrosive in the septic tank environment. Sleeve is PVC, primary filter is polypropylene, and filter connection element is neoprene.

Easy to install or retrofit: The Zoeller Septic System Filter fits inside any 4" sanitary tee. Slide the filter cartridge into the filter sleeve. Lock the cartridge and sleeve together by holding the sleeve stationary and rotating the cartridge clockwise. Slide the assembled cartridge and sleeve into the sanitary tee at the tank's outlet. Ensure the sleeve latch is pointing toward the outlet of the septic tank before filter placement into the tee. The drain field is now protected from solids greater than 1/16".

Adding an extension handle: Zoeller's effluent filter can be easily retrofitted with an extension handle. Attach a 1/2" PVC pipe to the top of the filter with properly installed stainless steel screws. Cut off to appropriate length below the lid. A 1/2" PVC Tee can be added to the pipe for added leverage and control.

Covered by US Patent No. 6,136,190




Easy to maintain: The filter cartridge can be maintained by rotating the cartridge counterclockwise and removing for cleaning. The sleeve should remain in the sanitary tee while cleaning the cartridge. To clean the cartridge, hold cartridge over septic tank opening and thoroughly rinse with hose until clean, washing filtered trash back into septic tank. After cleaning the cartridge, it is imperative that the sleeve be cleaned inside and out, by reinserting the cartridge; turning it clock wise in the sleeve and removing the sleeve from the sanitary tee. The Zoeller filter should be cleaned each time the septic tank is pumped or when the need is indicated by slow flows from the house. More frequent cleanings will not hurt the filter and could even improve the performance of your septic tank. For installations that exceed the design flow rate of the filter, more frequent cleanings may be required or manifold more than one sanitary tee to accept more than one filter.

Trouble shooting, repair, and replacement: Follow the install and maintenance instructions above. For replacement components, call 1-800-928-PUMP.

Lifetime Warranty: Every Zoeller filter is guaranteed to be free from defects in materials and workmanship for the lifetime of the homeowner/purchaser. Free repair or replacement, excluding labor, will be made on return of the filter prepaid to the factory. This warranty is limited to product proven to be free from abuse or improper installation.

***NOTE:** State and local plumbing codes may require a specific liquid penetration. For example, 25% - 45% into the liquid depth or 9" off the tank bottom.

**ALL ZOELLER ON-SITE WASTEWATER PRODUCTS MUST BE INSTALLED IN ACCORDANCE WITH LOCAL AND/OR STATE PLUMBING AND/OR HEALTH DEPARTMENT CODES.**

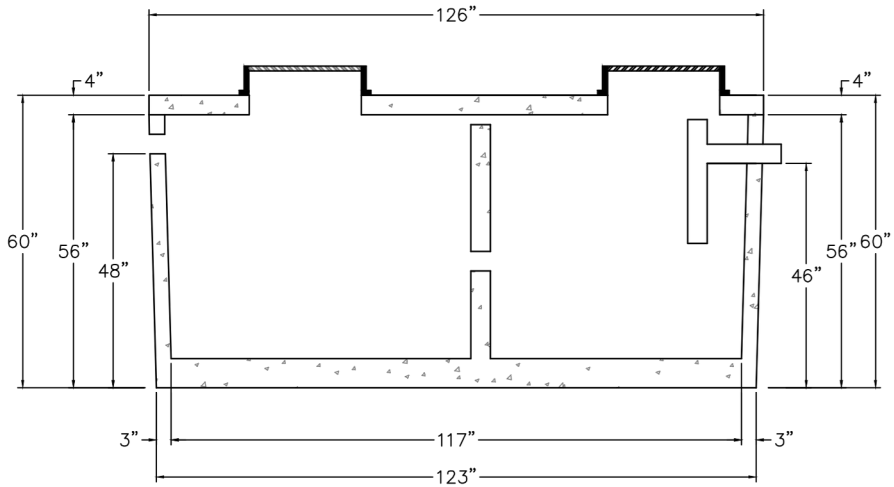
http://www.zoeller.com

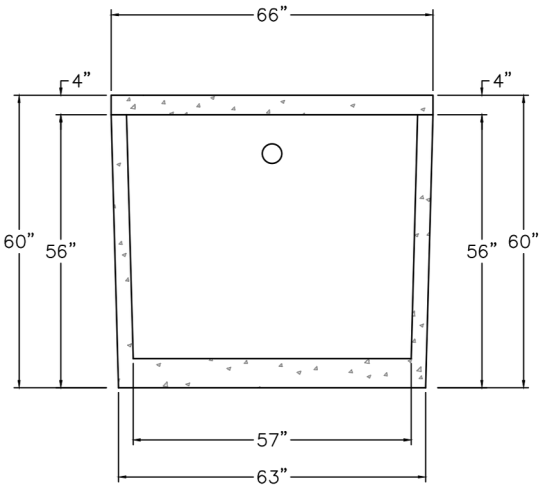
ZOELLER PUMP CO.

**MAIL TO:** P.O. BOX 16347
Louisville, KY 40256-0347
**SHIP TO:** 3649 Cane Run Road
Louisville, KY 40211-1961
(502) 778-2731 • 1 (800) 928-PUMP
FAX (502) 774-3624

Manufacturers of . . .
"Quality Pumps Since 1939"

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# 1,250 ST 323

NTS

## NON TRAFFIC BEARING


*DAVID BRANTLEY & SONS*
37 Pine Ridge Rd.
Zebulon, NC 27597
Office 252-478-3721
Fax 919-573-0443
installer@gmail.com


PREPARED FOR : David Brantley & Sons
37 Pine Ridge Rd.
Zebulon, NC 27597

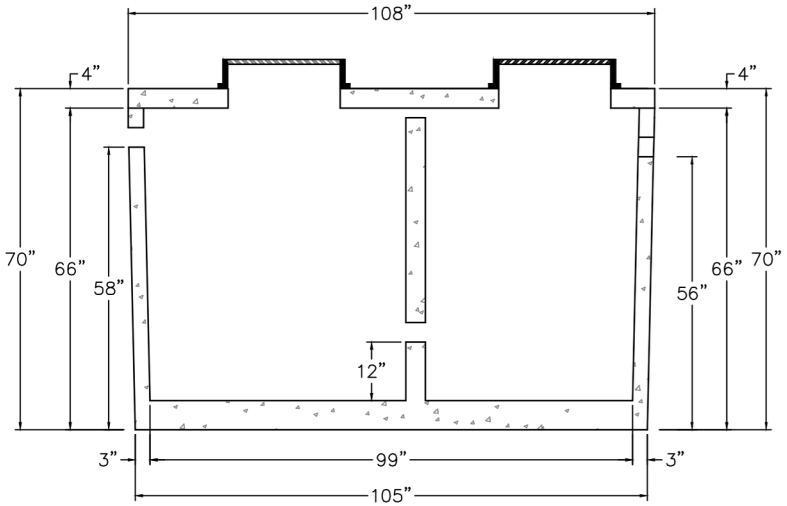
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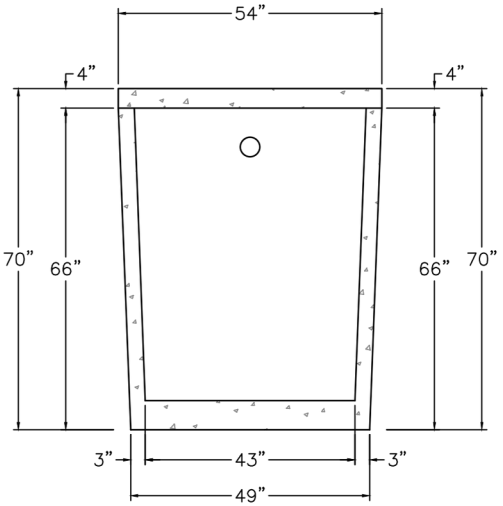
CONTACT:
CORY BRANTLEY

| REVISION NO. | DATE |
|---|---|
| Original Submittal | April 11, 2014 |
| Revision 1 | |
| Revision 2 | |
| Revision 3 | |
| Master Set | ------ |

BRANTLEY TANK MODEL
1,250 ST 323

SHEET NUMBER
1 of 1




# 1,200 PT 463

NTS

## NON TRAFFIC BEARING


DAVID BRANTLEY & SONS
37 Pine Ridge Rd.
Zebulon, NC 27597
Office 252-478-3721
Fax 919-573-0443
tinstaller@gmail.com


PREPARED FOR : David Brantley & Sons
37 Pine Ridge Rd.
Zebulon, NC 27597

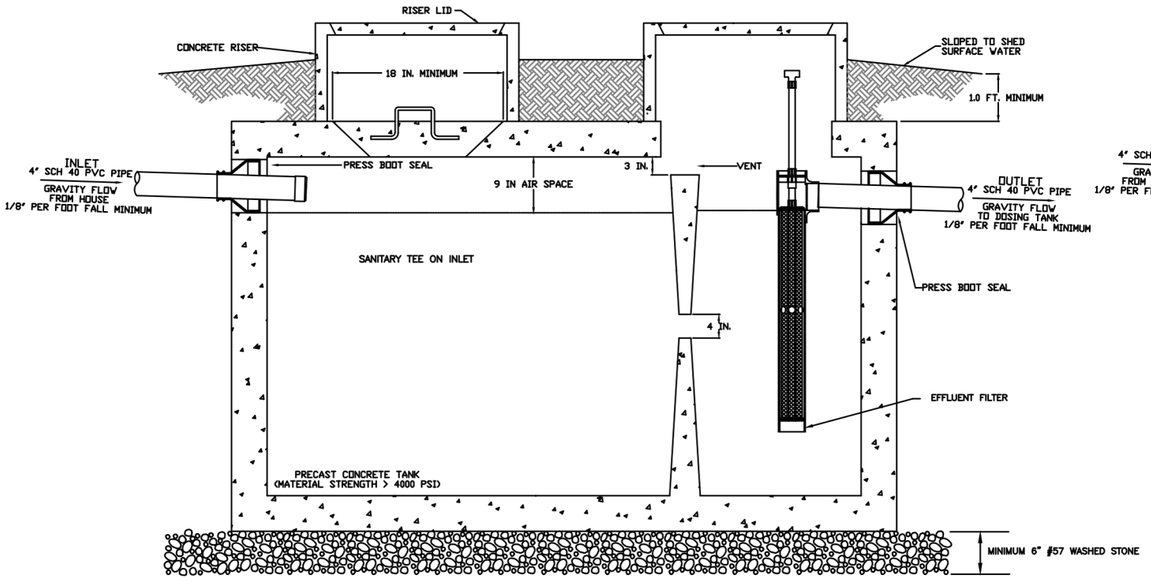
DATE : April 11, 2014

CONTACT:
CORY BRANTLEY

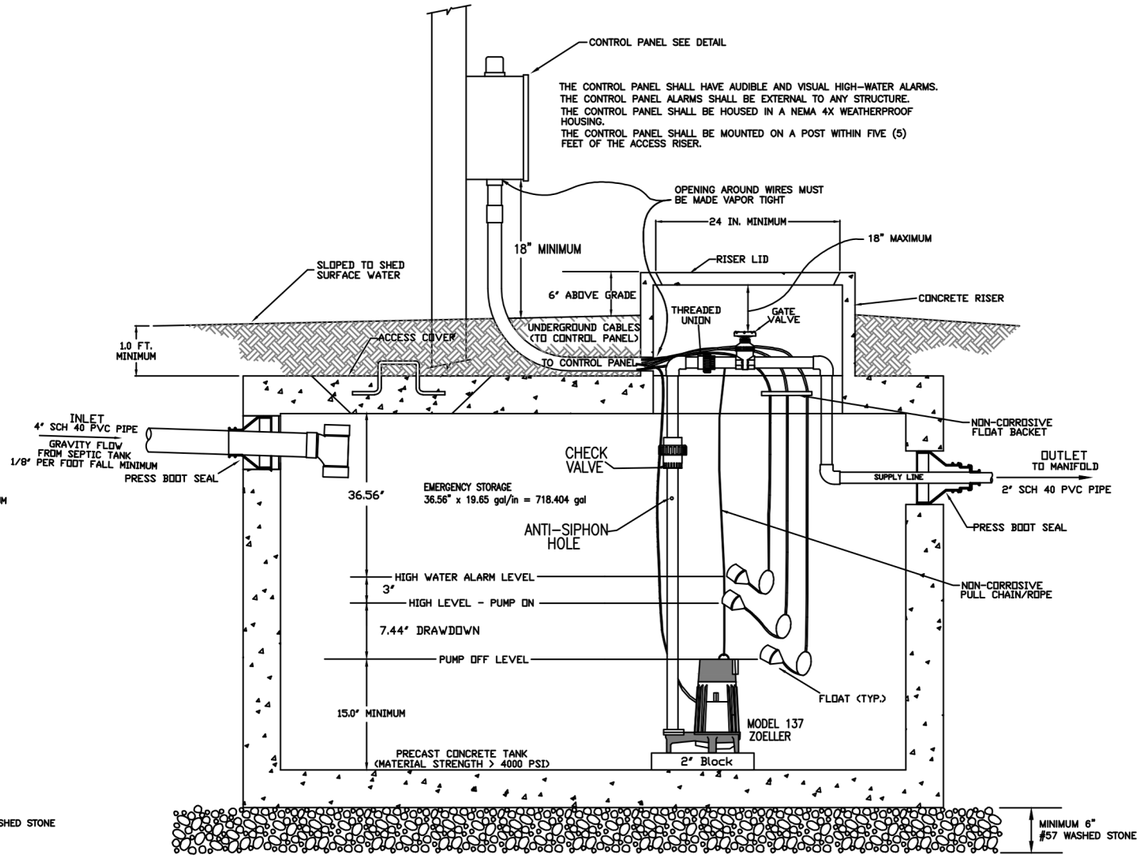
| REVISION NO. | DATE |
|---|---|
| Original Submittal | April 11, 2014 |
| Revision 1 | |
| Revision 2 | |
| Revision 3 | |
| Master Set | ------ |

BRANTLEY TANK MODEL
1,200 PT 463

SHEET NUMBER
1 of 1




1250 GAL SEPTIC TANK SCHEMATIC
NOT TO SCALE




1200 GAL PUMP TANK SCHEMATIC
NOT TO SCALE

NOTES

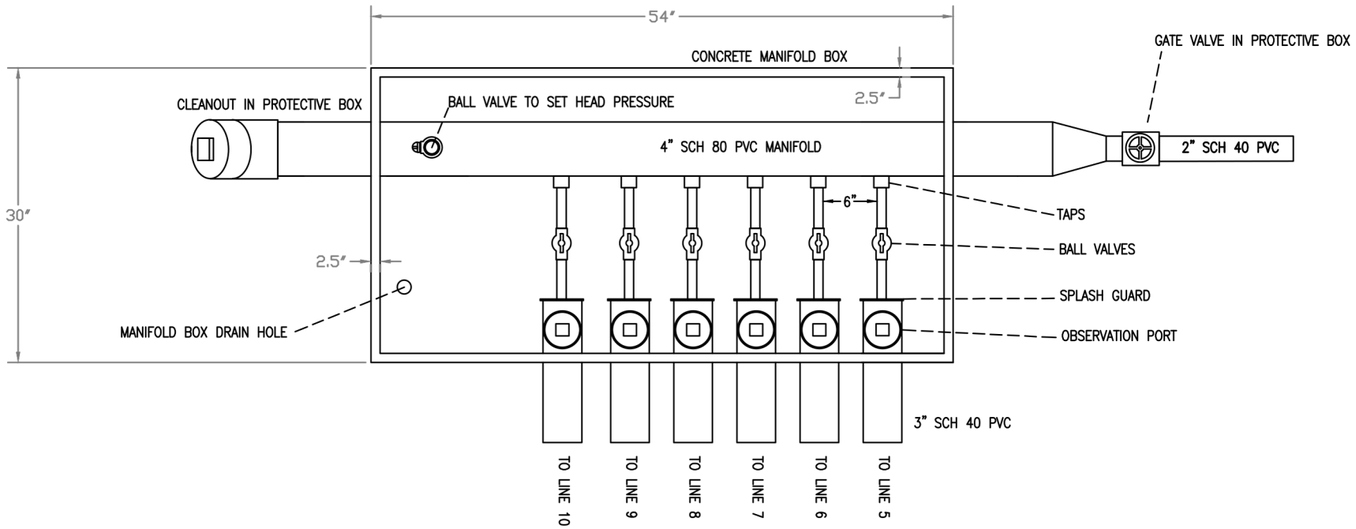
1. ALL TANKS SHALL BE LEAK TESTED SUCH THAT EXFILTRATION OCCURS AT A RATE WHICH DOES NOT EXCEED TEN GALLONS PER TWENTY-FOUR HOURS PER 1,000 GALLONS OF TANK CAPACITY
2. ALL TANKS SHALL REST ON A BED OF #57 WASHED GRAVEL. THE MINIMUM THICKNESS OF THE GRAVEL BED IS 6 INCHES.
3. ALL TANKS MUST BE APPROVED FOR USE BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL HEALTH (DEH).
4. INVERTS SHOWN ARE APPROXIMATE. THE INSTALLER SHALL FIELD CONFIRM PRIOR TO CONSTRUCTION.
5. ALL HARDWARE INSTALLED INSIDE OF TANKS SHALL BE OF STAINLESS STEEL.
6. TANK DIMENSIONS VARY BY MANUFACTURER.
7. DRAWDOWN WILL VARY WITH TANK DIMENSIONS.
8. NO ELECTRICAL SPLICES SHALL BE MADE INSIDE THE PUMP TANK.

Central Carolina Soil Consulting, PLLC
1900 South Main Street, Suite 110
Wake Forest, North Carolina 27587
Phone (919)569-6704 Fax (919)569-6703

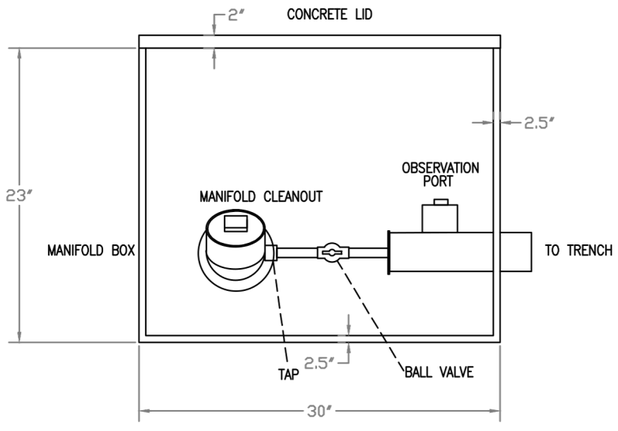
Septic and Pump Tank Details
Sanctuary S/D, Lot 82
Wake County, North Carolina

Job# : 3572
Drawn By : JR
Date : 05/26/2021
Revision : 00/00/0000

# PRESSURE MANIFOLD DETAILS
## TOP VIEW

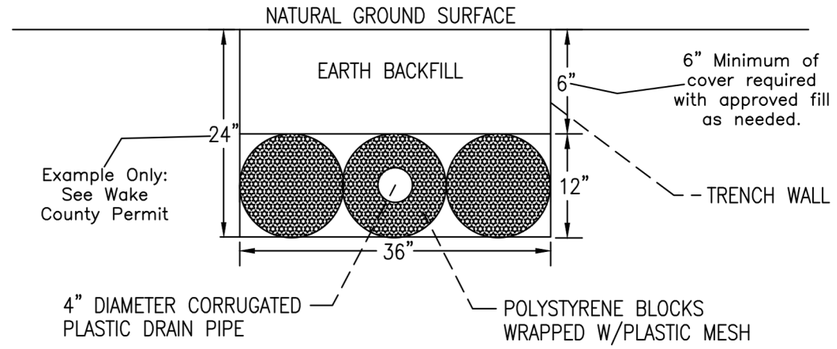



# PRESSURE MANIFOLD DETAILS
## END VIEW




| TAP SCHEDULE | |
|---|---|
| LINE # | TAP |
| 54 | $\frac{1}{2}$" SCH 80 |
| 6 | $\frac{1}{2}$" SCH 80 |
| 7 | $\frac{1}{2}$" SCH 80 |
| 8 | $\frac{1}{2}$" SCH 80 |
| 9 | $\frac{1}{2}$" SCH 80 |
| 10 | $\frac{1}{2}$" SCH 80 |
| | |
| | |

# EZ-FLOW DETAILS
Example only: Installed trench bottom should match design.




NOTE :

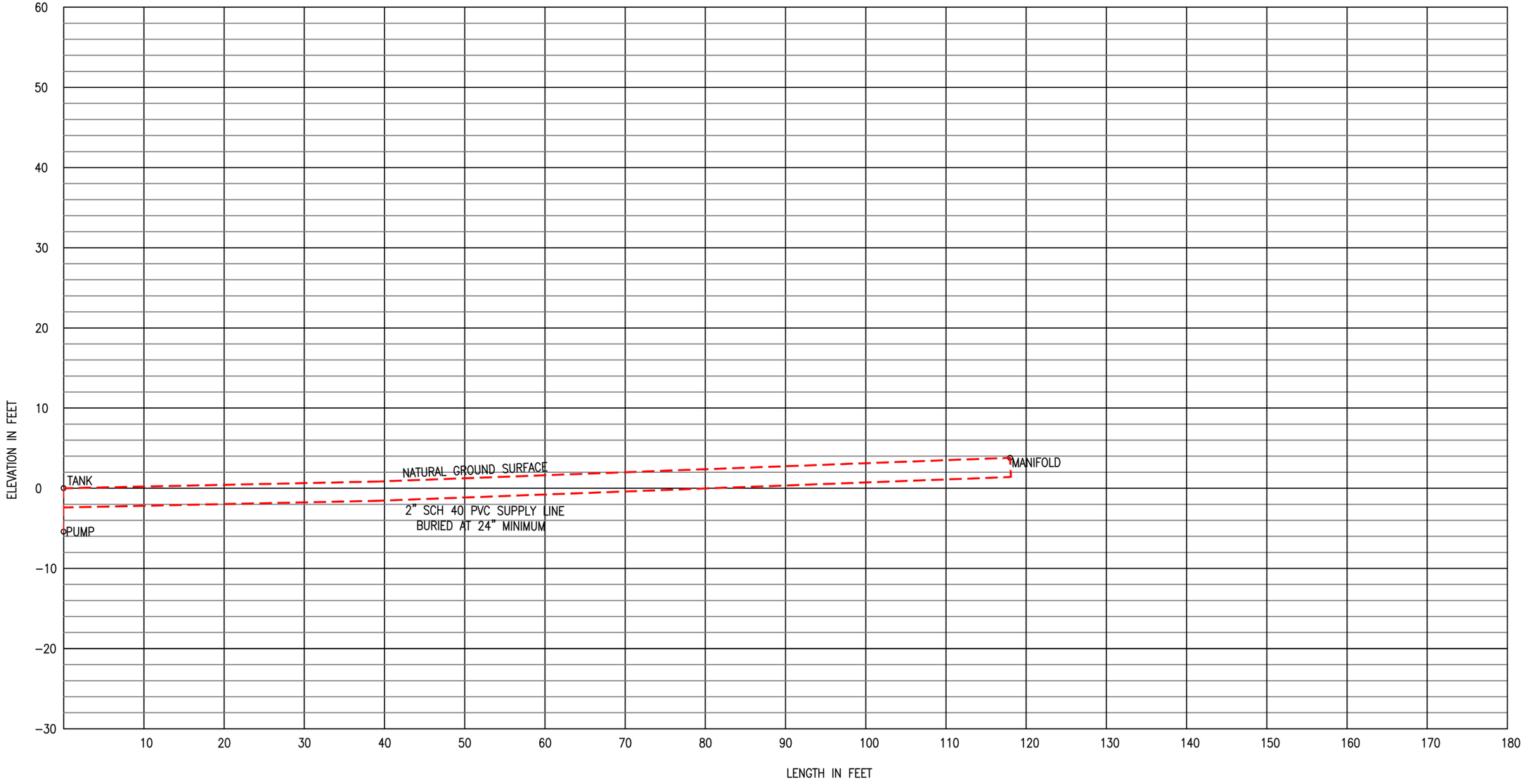
1. EZ-FLOW INSTALLATION SHALL MEET THE REQUIREMNTS INCLUDED IN ITS INNOVATIVE APPROVAL
2. TRENCH BOTTOM SHALL BE AT LEAST 12" FROM ANY RESTRICTIVE SOIL LAYER
3. END CAP SHALL BE PROVIDED AT END OF ALL CORRUGATED PLASTIC PIPE LINES AND TRENCH BOTTOMS SHALL BE LEVEL
4. THIS IS A GENERIC TRENCH PROFILE SEE COUNTY PERMIT FOR TRENCH DEPTH.


Central Carolina Soil Consulting, PLLC
1900 South Main Street, Suite 110
Wake Forest, North Carolina 27587
Phone (919)569-6704 Fax (919)569-6703


Manifold and Trench Details
Sanctuary S/D, Lot 82
Wake County, North Carolina

Job# : 3572
Drawn By : JR
Date : 05/26/2021
Revision : 00/00/0000

SUPPLY LINE
HYDRAULIC PROFILE




Central Carolina Soil Consulting, PLLC
1900 South Main Street, Suite 110
Wake Forest, North Carolina 27587
Phone (919)569−6704 Fax (919)569−6703

Hydraulic Profile
Sanctuary S/D, Lot 82
Wake County, North Carolina

| | |
|---|---|
| Job# | : 3572 |
| Drawn By | : JR |
| Date | : 05/26/2021 |
| Revision | : 00/00/0000 |

CA PART D

**Central Carolina Soil Consulting, PLLC**
1900South Main Street, Suite110
Wake Forest, NC 27587
919-569-6704/fax 919-569-6703

DepartmentofEnvironmentalServices
Wake County
Approved by
Date : 06022021
Review of this document has been made only for conformance with the design concept of the project and approval shall not relieve the designer and/or contractor from responsibility for any errors therein or for furnishing the materials, and equipment of proper dimension, size, quantity, quality and all performance characteristic to meet the requirements and intent of the contract documents.

December 15, 2020

Wake County Staff
Wake County Environmental Health Department
336 Fayetteville Street
Raleigh, North Carolina 27601
**RE:**

**WastewaterDailyFlow Calculations**
Sanctuary lot 82
2709 Sanctuary Woods Lane, Raleigh,Wake County, NC
Job #3572

Dear Wake County Staff:

Central Carolina Soil Consulting (CCSC) in conjunction with Bateman Civil Survey Company are proposing wastewater daily flow calculations for a single-family home located at Sanctuary lot 82 pursuant to session law 2014-120 and 2013-413. The proposed home will have **4** bedrooms and under the current flow calculations provided in the state rules would have a daily flow of **480** gallons per day. That would be based on 120 gallons per bedroom.

Household flow rates from the 15 NCAC 18A section of the state rules relied on fixture flow rates from 1982, and calculated the flows for common fixtures to established average flows for the purpose of calculating household daily flows and septic system based on those flows. The data for the historic fixture flows was taken from the EPA 2002 Onsite Wastewater Treatment Systems Manual.

The attached spreadsheet contains the flow reducing fixtures that are proposed for this home. The table includes flow rates for the flow reducing fixtures as well as flow rates from the state rules and the percentage of water savings. On average the proposed fixtures provide a 40% savings.

We are requesting a reduction of 25% for the use of low flow fixtures. This will provide an adjusted daily flow of 90 gallons per bedroom per day and a total flow of **360** gallons per day for the proposed 4-bedroom house.

Should you have any questions or comments please contact Matt Burdette at 919-422-2827.

Sincerely,

CENTRAL CAROLINA SOIL CONSULTING PLLC

Matt Burdette
Environmental Specialist

BATEMAN CIVIL SURVEY COMPANY
NCBELS# C-2378.

Tom Speight, P.E.
(seal)



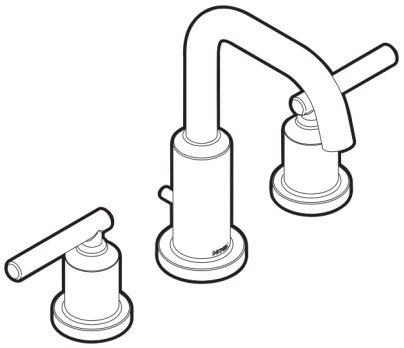

Attachments

| Sanctuary Lot 82 | | | | | | |
|---|---|---|---|---|---|---|
| | **Item** | | **Gal/min. or flush** | **Number of Fixures** | **Base Flow From 1982** | **Percent Water Savings** |
| Downstairs Bath | Lavatory Faucet | Moen 6142 | 1.2 gal/minute | 1 | 3.0 gal/minute | 60% |
| | Shower Head | Moen S6312 | 1.8 gal/minute | 1 | 5.5 gal/minute | 67% |
| | | | | | | |
| Kitchen | Kitchen Sink Faucet | Moen 7565 | 1.5 gal/minute | 1 | 3.0 gal/minute | 50% |
| | Pot Filler | Moen S665 | Fill & Release | 1 | Fill & Release | 0% |
| | | | | | | |
| Laundry | Kitchen Sink Faucet | Moen 84228 | 1.2 gal/minute | 1 | 3.0 gal/minute | 60% |
| | | | | | | |
| Garage | Kitchen Sink Faucet | Moen 74998 | Fill & Release | 1 | Fill & Release | 0% |
| | | | | | | |
| Master Bath | Shower Head | Moen 3638 | 2.5 gal/minute | 1 | 5.5 gal/minute | 55% |
| | Tub | Moen T961 | Fill & Release | 1 | Fill & Release | 0% |
| | Lavatory Faucet | Moen 6142 | 1.2 gal/minute | 2 | 3.0 gal/minute | 60% |
| | Hand Held Shower | Moen 3887EP | 1.8 gal/minute | 1 | 5.5 gal/minute | 67% |
| | | | | | | |
| Bedroom 2 | Shower Head | Moen S6312 | 1.8 gal/minute | 1 | 5.5 gal/minute | 67% |
| | Lavatory Faucet | Moen 6145 | 1.2 gal/minute | 1 | 3.0 gal/minute | 60% |
| | | | | | | |
| Bedroom 3 | Shower Head | Moen S6312 | 1.8 gal/minute | 1 | 5.5 gal/minute | 67% |
| | Lavatory Faucet | Moen 6145 | 1.2 gal/minute | 1 | 3.0 gal/minute | 60% |
| | | | | | | |
| Bedroom 4 | Shower Head | Moen S6312 | 1.8 gal/minute | 1 | 5.5 gal/minute | 67% |
| | Lavatory Faucet | Moen 6145 | 1.2 gal/minute | 1 | 3.0 gal/minute | 60% |
| | | | | | | |
| Toilets | Down, Master, 2, 3, 4 | Tresham (OS & Guest), Alto 135-3173 | 1.28 gal/flush average | 5 | 3.5 gal/minute | 63% |

| **FIXTURES** | **TOILET** | **FAUCET** | **SHOWER** | **LEAK** | **BATH** | **OTHER** | **DISHWASHER** | **CLOTHES WASHER** | **TOTALS** |
|---|---|---|---|---|---|---|---|---|---|
| **PERCENT OF HOUSE HOLD WATER USE** | 24% | 20% | 20% | 12% | 3% | 3% | 2% | 16% | **100%** |
| **GALLONS PER DAY (480 BASE)** | 115 | 96 | 96 | 58 | 14 | 14 | 10 | 77 | **480** |
| **PERCENT OF SAVINGS FROM WATER SAVING FIXURES** | 63% | 59% avg | 65% avg | 0% | 0% | 0% | 0% | 0.0% | **40%** |
| **ADJUSTED FLOW (GALLONS)** | 43 | 39 | 34 | 58 | 14 | 14 | 10 | 77 | **289** |

MOEN®

# SPECIFICATIONS



**Gibson™**
**Two-Handle Widespread**
**Lavatory Faucet**

**Models**: T6142 series
**Valve**: 9000, 69000

**NOTE**: THIS FAUCET IS DESIGNED TO BE INSTALLED THROUGH 3 HOLES, 1-1/8" MIN. DIA.

## DESCRIPTION
- Metalconstruction with various finishes identifiable by suffix
- 1/2" IPS connections
- Hot and cold temperature indicators available
- Includes metal pop-up waste assembly

## OPERATION
- Lever style handles
- Maximum handle rotation angle is 90° to full on for either handle
- Hot side counterclockwise to open (clockwise to close)
- Cold side clockwise to open (counterclockwise to close)

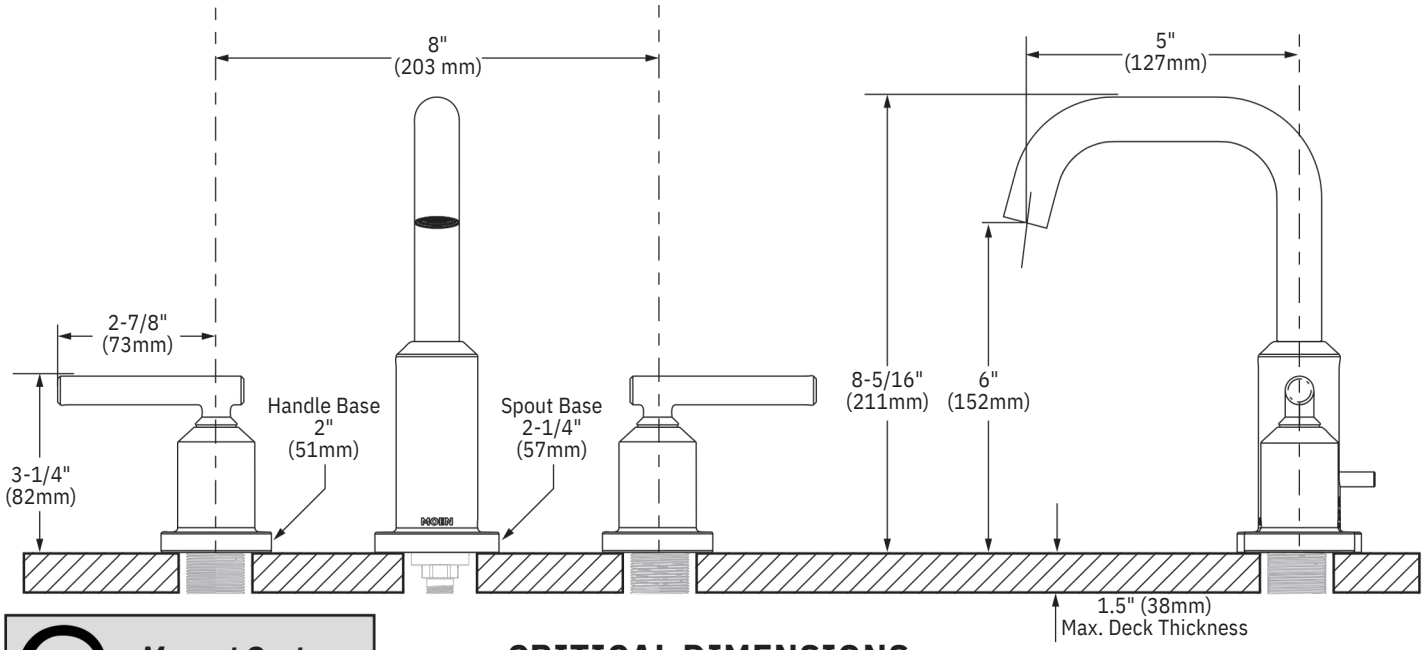
## FLOW
- Water usage is limited to these maximum flow rates as indicated by the corresponding product markings
  ° 1.2 gpm max (4.5L/min) at 60 psi

## CARTRIDGE
- 1234 cartridge design
- Nonmetallic, nonferrous and stainless steel material

## STANDARDS
- Third party certified to WaterSense®, ASME A112.18.1/CSA B125.1 and all applicable requirements referenced therein
- Certified to NSF 61/9 & 372
- Complies with California Proposition 65 and with the Federal Safe Drinking Water Act
- ADA for lever handles

## WARRANTY
- Lifetime limited warranty against leaks, drips and finish defects to the original homeowner
- 10 year limited warranty when used in a multifamily installation
- 5 year limited warranty when used in a commercial installation

Visit www.moen.com/support for complete details and limitations




*M•pact System*

## CRITICAL DIMENSIONS

(DO NOT SCALE)



**FOR MORE INFORMATION CALL: 1-800-BUY-MOEN**
**w w w.moen.com**

11/7/2018 SPC13D5 3000025A162 Released 001

MOEN

Buy it for looks. Buy it for life.®

# SPECIFICATIONS

**FAUCET DESCRIPTION**
- Metalconstructionwithvarious finishes identified by suffix

**OPERATION**

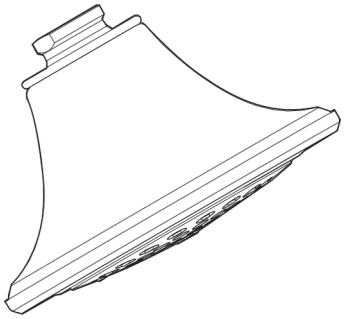
Single spray

- 
- Showerheadlimited to2.5 gpm (9.5 L/min) MAX at 80 psi
- EP suffixmodelsare limited to 1.75 gpm (6.6 L/min) MAX at 80 psi

**FLOW**

**STANDARDS**
- Thirdpartycertified tomeet ASME A112.18.1/ CSA B125.1 and all applicable requirements referenced therein
- EP suffix models are IAPMO Green listed and third party certified to WaterSense®

**WARRANTY**
- Lifetime limited warranty against leaks, drips and finish defects to the original consumer purchaser
- 5 year warranty if used in commercial installations



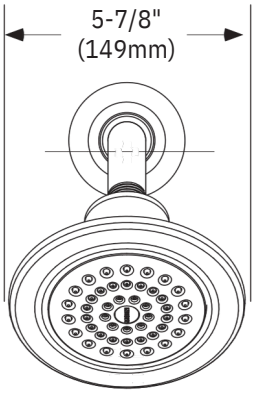
**ICON™**
**Single Function Showerhead**

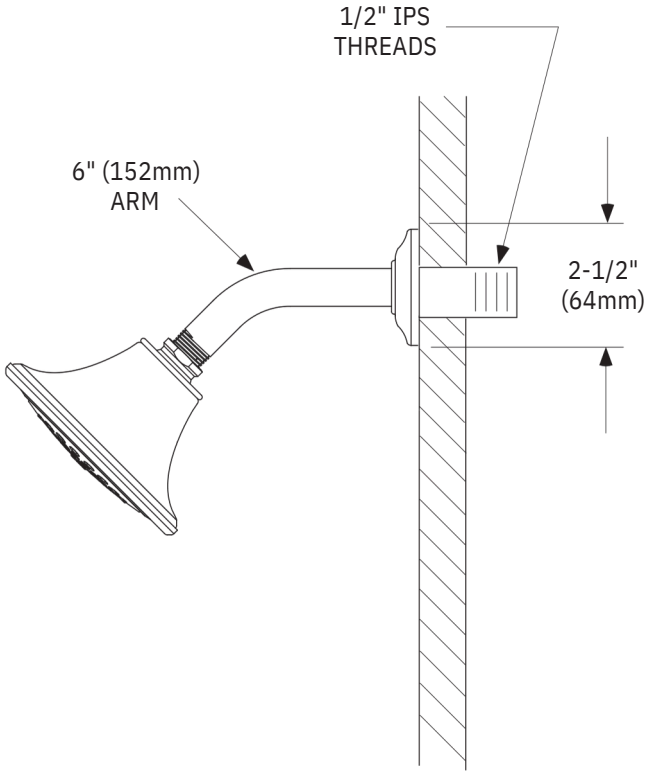
**Models:**S6312 series

WaterSense Meets EPA Criteria
Certified by IAPMO R&T

GREEN UPC ®

**EP Suffix Models Only**



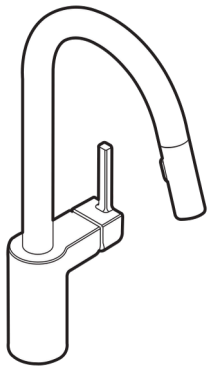




## CRITICAL DIMENSIONS

(DO NOT SCALE)

MOEN®

# Specifications



## ALIGN™
## SingleHandleHigh Arc Pulldown Kitchen Faucet

**Models:** 7565 series

**NOTE:** THIS FAUCET IS DESIGNED TO BE INSTALLED THROUGH 1 HOLE, 1-1/2” (38mm) MIN. DIA. (OPTIONAL 3-HOLE ESCUTCHEON 141002 AVAILABLE)

GREEN UPC

**FAUCET DESCRIPTION**
- Reflex™ pulldownsystem offers smooth operation, easy movement and secure docking
- Power Clean™ spray technology
- Metal construction with various finishes identified by suffix
- Quick connect installation
- Pulldown spray with 68” braided hose
- Flexible supply lines with 3/8” compression fittings
- High arc spout provides height and reach to fill or clean large pots while pulldown wand provides the maneuverability for cleaning or rinsing
- 360° rotating spout
- Faucet designed for handle to be mounted on right side only

**OPERATION**
- Lever stylehandle
- Temperature controlled by 100˚ arc of handle travel
- Operates with less than 5 lbs. of force
- Operates instream or spray mode in the pullout or retracted position

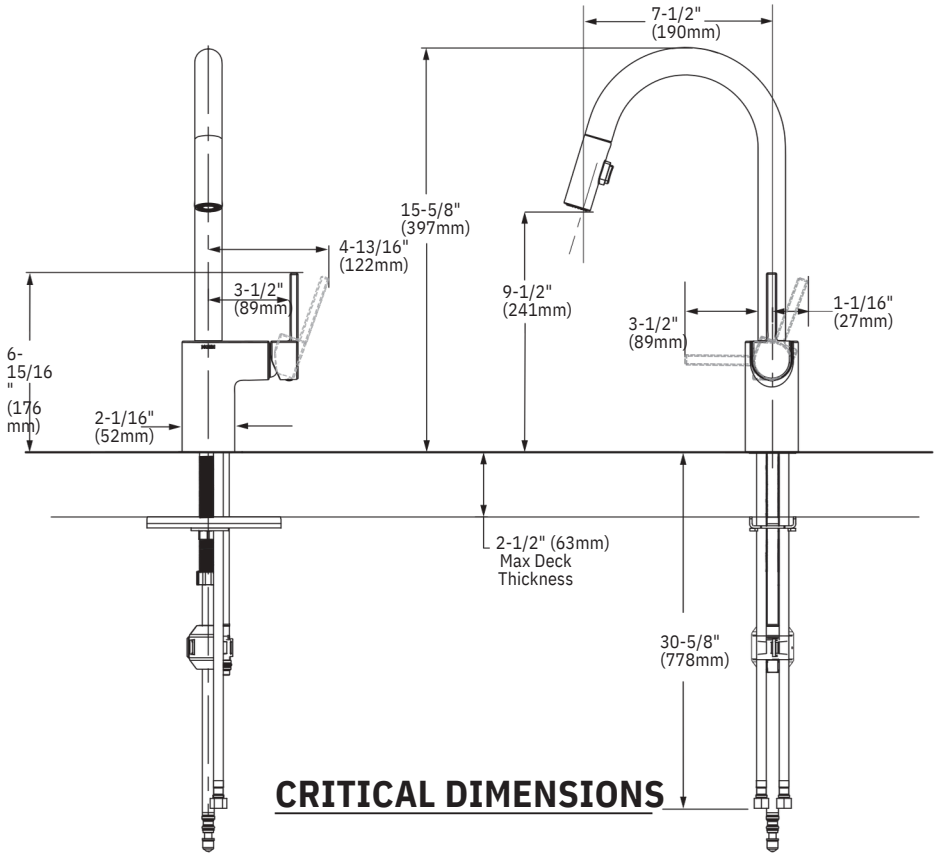
**FLOW**
- Flowis limited to 1.5 gpm (5.7 L/min) max at 60 psi

**CARTRIDGE**
- 1255™ Duralast™ cartridge

**STANDARDS**
- Third party certified to IAPMO Green, ASME A112.18.1/CSA B125.1 and all applicable requirements therein including NSF 61/9G & 372
- Meets CalGreen and Georgia SB370 requirements
- Complies with California Proposition 65 and with the Federal Safe Drinking Water Act
- The backflow protection system in the device consists of two independently operating check valves, a primary and a secondary which prevent backflow
- **ADA** for lever handle

**WARRANTY**

Lifetime limited warranty against leaks, drips and finish defects to the original homeowner
10 year limited warranty when used in a multifamily installation
5 year limited warranty when used in a commercial installation
Visit www.moen.com/support for complete details and limitations



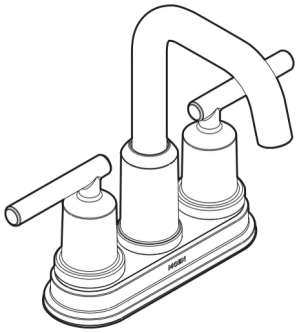

## CRITICAL DIMENSIONS




06/17/2020 SPC1371 3000036608
Released

MOEN®

# SPECIFICATIONS



## GIBSON™

**Two-Handle4"CentersetLavatory Faucet**

**Models:**
WS84228 series includes pop-up waste

## DESCRIPTION

- Metal construction with finished identified by suffix
- ½" IPS connections will accept standard ball nose connection for 3/8" tubing
- Installation through 3 holes, 1-1/8" min. diameter, and 4" on center
- Includes pop-up waste assembly

## OPERATION

- Lever handles
- Maximum handle rotation angle is 90° to full on
- Hot side counterclockwise to open (clockwise to close)
- Cold side clockwise to open (counterclockwise to close)
- Rotating spout

## FLOW

- Water usage is limited to the maximum flow rates as indicated by the corresponding product markings
  - 1.2 gpm max (4.5 L/min) at 60 psi

## CARTRIDGE

- 1224 cartridge
- Nonmetallic and stainless steel material

## STANDARDS

- Third party certified at WaterSense®, ASME A112.18.1/CSA B125.1, and all applicable requirements referenced therein including NSF 61/9 & 372
- Products marked with 1.2 gpm are compliant with California water efficiency regulations
- Complies with California Proposition 65 and with the Federal Safe Drinking Water Act
- ADA for lever handles

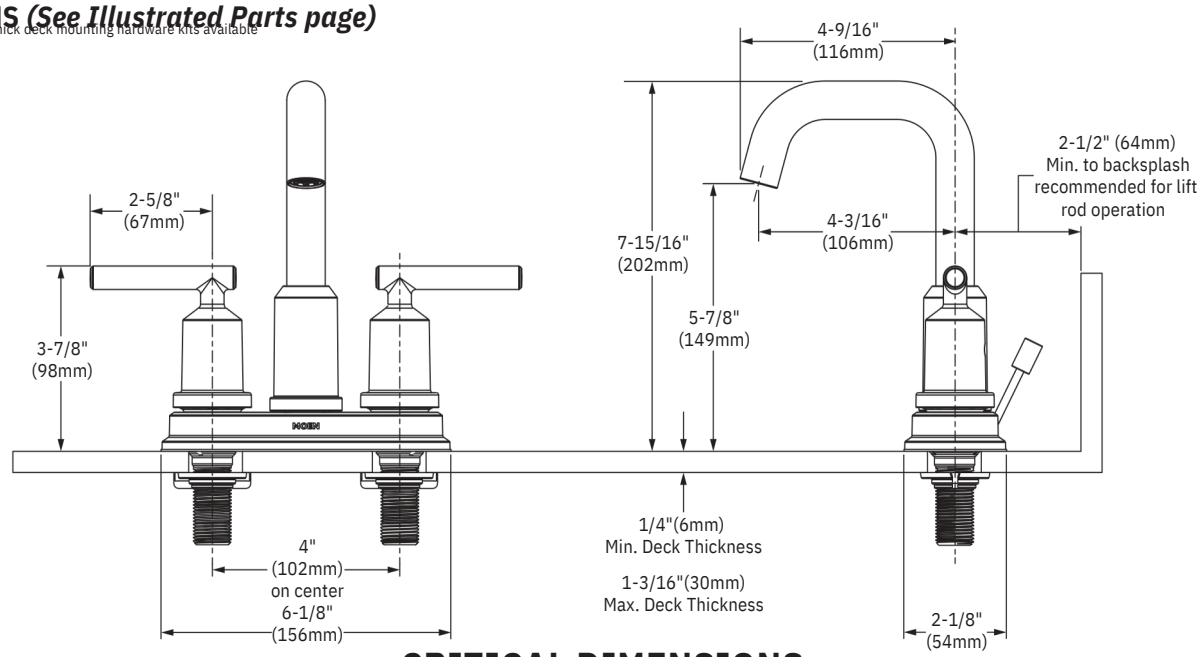
## WARRANTY

- Limited lifetime warranty against leaks, drips and finish defects to the original homeowner
- 10 year warranty when used in a multifamily installation
- 5 year warranty when used in a commercial installation

Visit www.moen.com/support for complete details and limitations

## OPTIONS *(See Illustrated Parts page)*

- Thin and thick deck mounting hardware kits available




## CRITICAL DIMENSIONS

(DO NOT SCALE)




05/10/2016 SPC1434 59000345011
Released PC

MOEN

Buy it for looks. Buy it for life.®

# SPECIFICATIONS

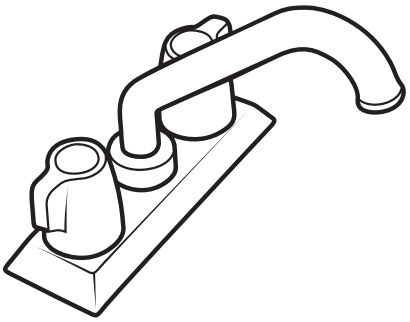
**FAUCET DESCRIPTION**
- Chrome plated metal construction

**OPERATION**
- Small lever style

**CARTRIDGE**
- 1224 cartridge design

**STANDARDS**
- Designed and manufactured to comply with the requirements of: CSA B-125 and ASME A112.18.1M and all applicable specifications ref er enced therein
- ADA for lever handles

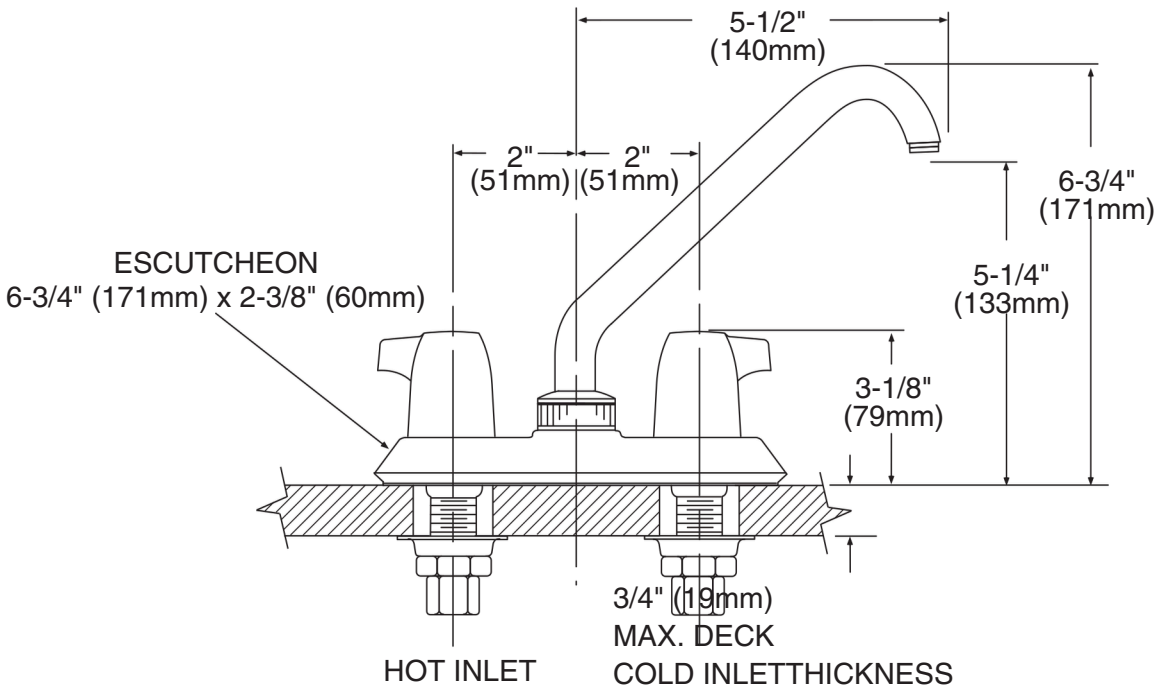
**WARRANTY**
- Lifetime limited warranty against leaks, drips and finish defects



**MOEN®**
**Two Handle Laundry Faucet**

**Model:** 74998

**NOTE:** DESIGNED TO INSTALL THROUGH 2 HOLES 1” (25mm) MIN. DIA. AND 4” (102mm) ON CENTER

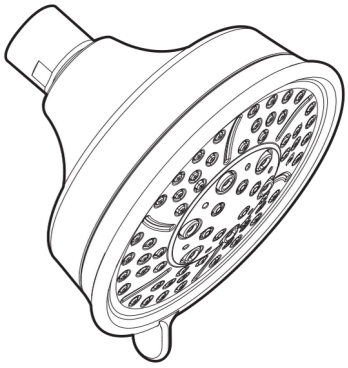



## CRITICAL DIMENSIONS

MOEN

Buy it for looks. Buy it for life.®

# Specifications



## 4-Function Showerhead

**Models:**
3638 series
3638EP series

**DESCRIPTION**
- Availablein various finishes identified by suffix
- Fixed mount showerhead only
- Nonmetallic spray face and shell
- Brass swivel ball assembly

**OPERATION**
- 4function massage, fine, full and combined (massage and full): rotate outer ring to select

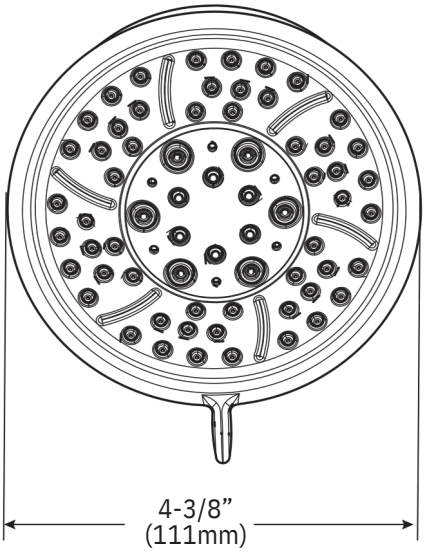
**FLOW**
- Designed to deliver 2.5 gpm (9.5 L/min) at 60 psi
- EPsuffix models are limited to 2.0 gpm (7.6 L/min) at 80 psi

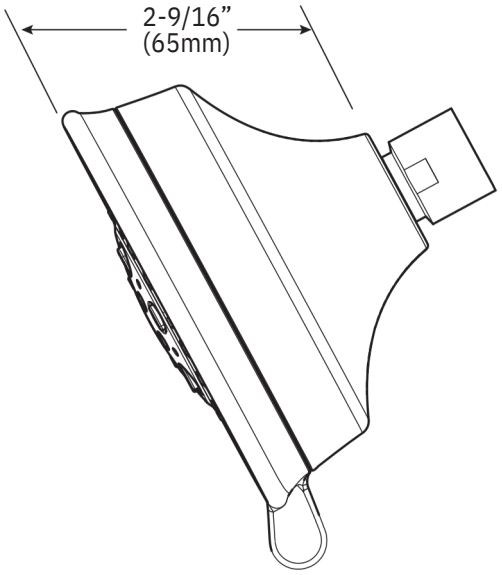
**STANDARDS**
- Thirdparty certified to meet ASME A112.18.1/ CSA B125.1 and all applicable requirements referenced therein
- EPsuffix models are third party certified to WaterSense®

**WARRANTY**
- Lifetime limited warranty against leaks, drips and finish defects to the original consumer purchaser
- 5 year warranty if used in commercial installations

WaterSense Meets EPA Criteria
Certified by IAPMO R&T

**EP Suffix Models Only**




## CRITICAL DIMENSIONS

(DO NOT SCALE)



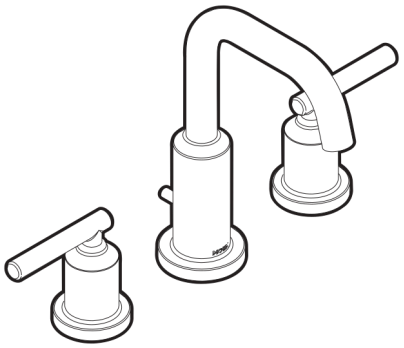
**FOR MORE INFORMATION CALL: 1-800-BUY-MOEN**
**w w w.moen.com**

04/12/2013 SPC13909
Released/OK

MOEN

Buy it for looks. Buy it for life.®

# SPECIFICATIONS



**Gibson™**
**Two-Handle Widespread**
**Lavatory Faucet**

**Model**: T6142
**Valve**: 9000, 69000

**NOTE**: THIS FAUCET IS DESIGNED TO BE INSTALLED THRU 3 HOLES, 1-1/8" MIN. DIA.

## DESCRIPTION
- Metalconstruction with chrome finish
- 1/2" IPS connections
- Hot and cold temperature indicators available
- Includes metal pop-up waste assembly

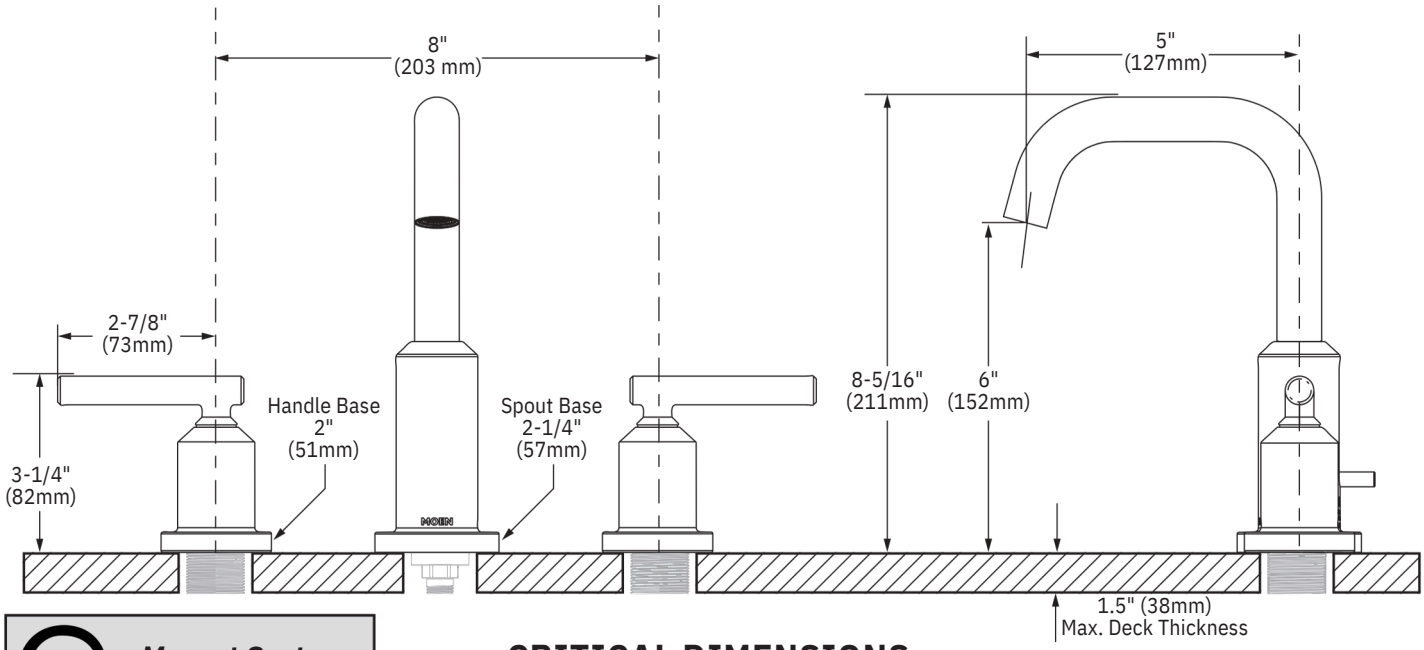
## OPERATION
- Lever style handles
- Maximum handle rotation angle is 90° to full on for either handle
- Hot side counterclockwise to open (clockwise to close)
- Cold side clockwise to open (counterclockwise to close)

## FLOW
- Water usage is limited to these maximum flow rates as indicated by the corresponding product markings
  °1.2 gpmmax (4.5L/min) at 60 psi

## CARTRIDGE
- 1234 cartridge design
- Nonmetallic,nonferrous and stainless steel material

## STANDARDS
- Thirdparty certified to WaterSense®, ASME A112.18.1/CSA B125.1 and all applicable requirements referenced therein
- Certified to NSF 61/9 & 372
- Complies with California Proposition 65 and with the Federal Safe Drinking Water Act
- ADA forlever handles

## WARRANTY
- Limited lifetime warranty against leaks, drips and finish defects to the original consumer purchaser
- 5 year warranty if used in commercial installations




*M•pact System*

## CRITICAL DIMENSIONS

(DO NOT SCALE)

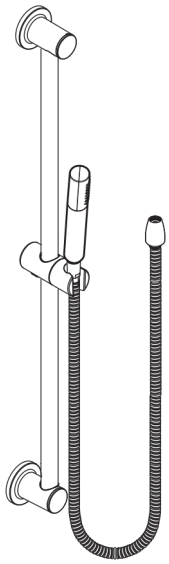


**FOR MORE INFORMATION CALL: 1-800-BUY-MOEN**
**w w w.moen.com**

MOEN

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# *Specifica tions*



## LEVEL™
## Single Function Handshower w/Slide Bar

**Model:**3887 series

**DESCRIPTION**
- Variousfinishesidentified by suffix
- Handheld shower
- 69" double interlock spiral hose (metal)
- Vacuum breaker
- 30" slide barwith push button height selection

**OPERATION**
- Singlefunction
- Handshower holder rotates to adjust angle of handshower

**FLOW**
- Designed to deliver 2.5 gpm (9.5 L/min) at 80 psi
- EPsuffix models are limited to 1.75 gpm (6.7 L/min) at 80 psi

**STANDARDS**
- Designed and manufactured to comply with the applicable require ments of CSA B-125.1, ASME A112.18.1 and ASSE 1014 and all applicable specifications referenced therein
- EP suffix models are IAPMO Green listed

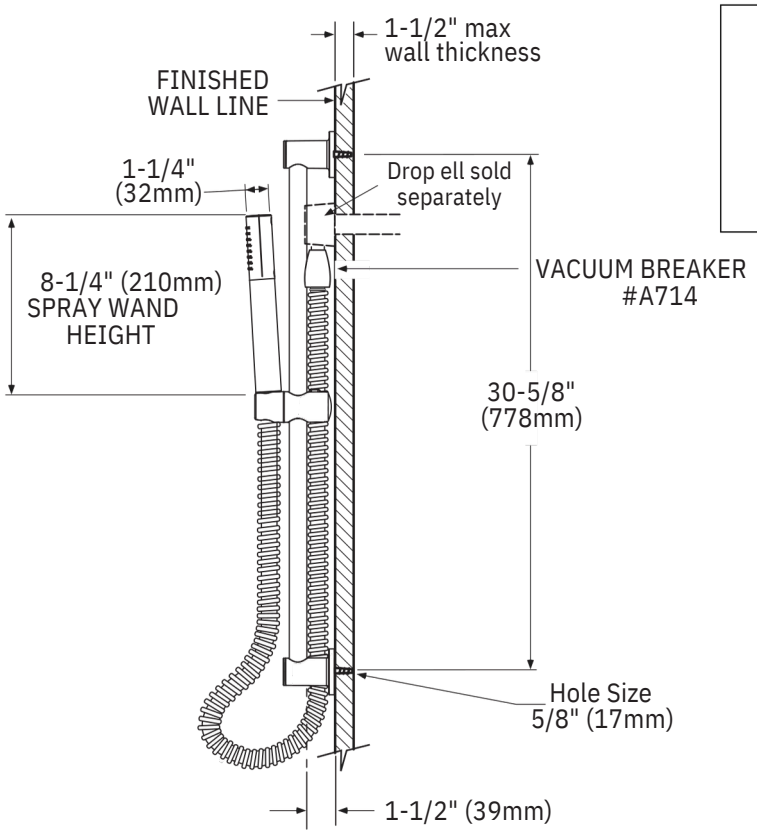
**WARRANTY**
- Lifetime limited warranty against material or manufacturing defects

GREEN

UPC®

Water Efficiency

**Models: 3887EP series**




## CRITICAL DIMENSIONS

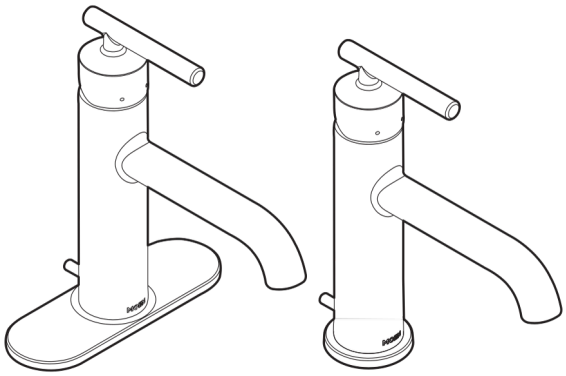
(DO NOT SCALE)




05125012 SPC13707
Reviewed 00

MOEN®

# SPECIFICATIONS



**Gibson™**
**Single-Handle Lavatory Faucet**

**Models**: 6145 series

**NOTE:** THISFAUCET ISDESIGNED TOBE INSTALLED THROUGH 1 HOLE, 1-1/4" MIN. DIA.

WaterSense Meets EPA Criteria
Certified by IAPMO R&T

## DESCRIPTION
- Metalconstruction with various finishes identified by suffix
- Flexible supply lines with 3/8" compression fittings
- Includes metal pop-up waste assembly
- Includes optional 3 hole deck plate (escutcheon)

## OPERATION
- Lever style handle with hot/cold temperature indicators
- Temperature controlled by 100° arc of handle travel

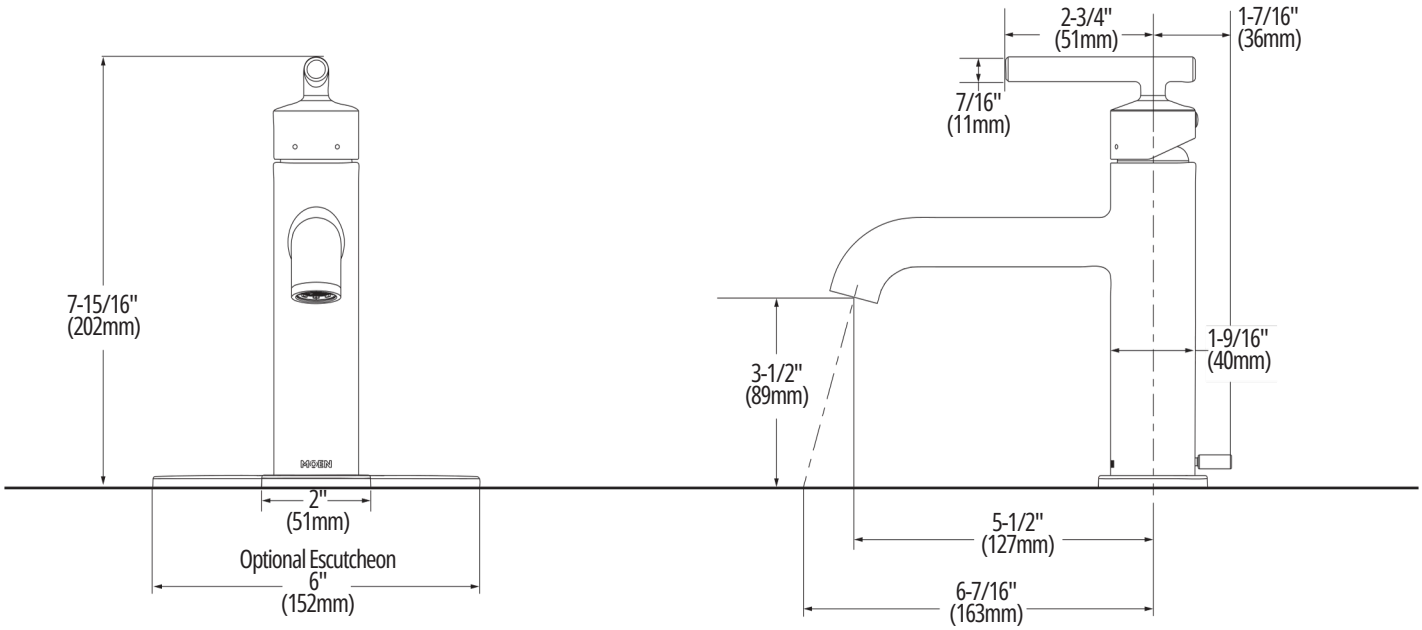
## FLOW
- Water usage is limited to these maximum flow rates as indicated by the corresponding product markings 1.2 gpm max (4.5L/min) at 60 psi

## CARTRIDGE
- 1255™ Duralast™ cartridge
- Nonmetallic/nonferrous and ceramic material

## STANDARDS
- Third party certified to WaterSense,® ASME A112.18.1/CSA B125.1, and all applicable requirements referenced therein
- Certified to NSF 61/9 & 372
- Products marked with 1.2 gpm are compliant with California water efficiency regulations
- Complies with California Proposition 65 and with the Federal Safe Drinking Water Act
- **ADA** for lever handle

## WARRANTY
- Lifetime limited warranty against leaks, drips and finish defects to the original homeowner
- 10 year limited warranty when used in a multifamily installation
- 5 year limited warranty when used in a commercial installation

**Visit** www.moen.com/support for complete details and limitations




## CRITICAL DIMENSIONS

(DO NOT SCALE)



**FOR MORE INFORMATION CALL: 1-800-BUY-MOEN**
**w w w.moen.com**

11/26/2018 SPC1610 3000034025
Released

# Tresham® Comfort-Height® One-Piece Toilet

**Easy to Clean**
Theintegrated tank and bowl create a seamless, one-piece design, and the skirted trapway offers a sleek, smooth surface that's easy to wipe clean

**Simple Installation**
Aninnovative trapway system secures to the floor flange and attaches to the toilet, minimizing drilling and anchoring of the toilet. Tresham uses a standard 12-inch rough-in with 10- and 14-inch rough-in kits available

**Space-Saving Design**
Thecompact elongatedbowl offers added comfort while occupying the same space as a round-front toilet

**Comfort Height Seating**
Chair-heightseatingmakes sitting down and standing up easier for most adults

**Toilet Seat Included**

AGlenbury Quiet-Close™ toilet seat offers many convenient features such as a Quiet-Close lid and seat, Grip-Tight bumpers, Quick-Attach® hardware and Quick-Release™ hinges

**Smarter Power**
Flushes4Xmore than the average adult needs

**Plug-Free Flush**

TheAquaPiston® flush engine delivers a powerful flush that virtually eliminates clogging

**Coordinating Fixtures**
Toiletdesigncomplements the other products in the Tresham collection



Easy to **clean**
KOHLER® one-piece toilets



The innovative installation system is hidden beneath the fully skirted trapway



Side ports provide secure installation and concealing caps offer a seamless finish

| SKU | Description | Rough-In | Water Usage | Bowl Shape |
|---|---|---|---|---|
| K-3981 | Tresham Comfort-Height one-piece toilet | 12" | 1.28 gpf | Compact elongated |

**Optional Accessories**

| SKU K- | Description |
|---|---|
| 5383-NA | 10" rough-in kit |
| K-5381-NA | 14" rough-in kit |

**Color options:**

White (0) | Dune (NY) | Biscuit (96) | Almond (47) | Ice™ Grey (95)

Sandbar (G9) | Mexican Sand™ (33) | Cashmere™ (K4) | Thunder™ Grey (58) | Black Black™ (7)

WaterSense®-labeled toilets use at least 20% less water than standard 1.6-gallon toilets while still meeting strict flushing performance guidelines.

ADA — All products displaying this symbol or stating "ADA-compliant" will comply with the Americans with Disabilities Act when installed per the requirements of the 2010 ADA Standards for Accessible Design, Section 604 (Water Closets) of the Act.

THE BOLD LOOK OF KOHLER®

**KOHLER.com/Tresham**

Form 14-1754-0116
© 2016 Kohler Co.
Kohler, Wisconsin 53044
Printed in U.S.A.
1-800-4-KOHLER
(1-800-456-4537)

# 135-3173

## Alto® 1.28
**Elongated Front, Vitreous China, Two-Piece Toilet**

## Features

- 3 bolt tank-to-bowl connection
- 1.28 gpf / 4.86 lpf low water consumption
- Uses 20% less water than conventional toilets
- Elongated front bowl
- 3" hybrid flush valve
- Pilot operated fill valve
- 12" rough-in
- Color-match trip lever
- 2" glazed trapway
- The Mansfield® limited lifetime warranty
- Available in white and standard colors: biscuit & bone




Model 135-3173
Toilet seat not included



*Also available as a complete toilet package.

## Components

| Model # | Description | Codes/Standards |
|---|---|---|
| 135-3173 | Elongated front, two-piece toilet. Less toilet seat and supply. Specify color. | |
| 135 | Elongated front toilet bowl only. Less toilet seat. Specify color. | |
| 3173 | Tank and cover only, with left hand, front-mount, color-match trip lever. Pilot valve. Less supply. Specify color. | |
| 3121 | Same as 3173 with Fluidmaster pilot valve and hybrid flush valve. | |
| 3125 | Tank and cover only, for 14" rough-in, with left hand, front-mount, color-match, plastic trip lever. Less supply. Specify color. | |
| *4135CTK | Elongated front, complete toilet kit. Includes toilet seat, tank and bowl, flange bolts, wax ring with polyethylene flange and instructions. | |

**Other Options:**

| | | |
|---|---|---|
| 3173RH | Same as model 3173, with right hand, color-match trip lever. Less supply. Specify color. | |
| 3174 | Same as model 3173, with tank liner. | |
| 3122 | Same as model 3121, with tank liner. | |
| 3121RH | Same as 3121 with right hand trip lever. | |
| 3120 | Same as 3121 with chrome trip lever. | |
| 3120RH | Same as 3120 with right hand trip lever. | |
| *4135LTCTK | Same as 4135CTK, with tank liner. | |
| SB200 | Alto Elongated, toilet seat. Specify color. | |

**MADE IN USA**

Printed in U.S.A. 02/17
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Website: www.mansfieldplumbing.com • Email: custserv@mansfieldplumbing.com

# WAKE COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES WASTEWATER PERMIT

NOPERMIT(S)FOR CONSTRUCTION,LOCATION ORRELOCATION ACTIVITYSHALL BEISSUED UNTILAN AUTHORIZATION FOR WASTEWATER SYSTEM CONSTRUCTION AUTHORIZATION HAS BEEN ISSUED
*PERMIT VOID IF NOT IN COMPLIANCE WITH ZONING REGULATIONS AND/OR IF SITE IS ALTERED OR INTENDED USE CHANGED*

## IMPROVEMENT PERMIT

PERMIT #: WRP-057877-2021 APPLICATION DATE: 04/19/2021 BLDG. PERMIT #: RBPR-057801-2021

PIN: 0781049463 RECORDED: Yes

TOWNSHIP: 18 - Swift Creek JURISDICTION: Wake County ZONING: R-40W

APPLICANT: Herring Homes
1070 Lakeside DR
BUSINESS PHONE: (919) 300-4048
HOME PHONE:
MOBILE PHONE: (919) 650-8224

HD USE: 101A CONVENTIONAL ONE-FAMILY HOUSE EXISTING USE:

SITE ADDRESS: 2709 SANCTUARY WOODS LN

SUBDIVISION: SANCTUARY AT YATES MILL PH 2 LOT: 82 ACRES: 0.74

DIRECTIONS: Take W Martin St to US-401 S/US-70 E/S Dawson St
Continue on US-401 S/US-70 E. Take I-40 W, Tryon Rd and Yates Mill Pond Rd to Theys Rd in Swift Creek
Continue on Theys Rd. Drive to Milner Dr

Permit is subject to revocation if the Site Plan or Plat changes or the intended use changes.
*Maximum depth of line is calculated using the downhill side of the trench and includes slope correction.

IP VALID FOR: Five Years AS PER GS 130A-335 (f)
DESIGNED BY: CCSC
SYSTEM LAYOUT: Private Sector
SITE CLASSIFICATION: Provisionally Suitable

IP STATUS: Issued BY: John Kase DATE: 05/19/2021

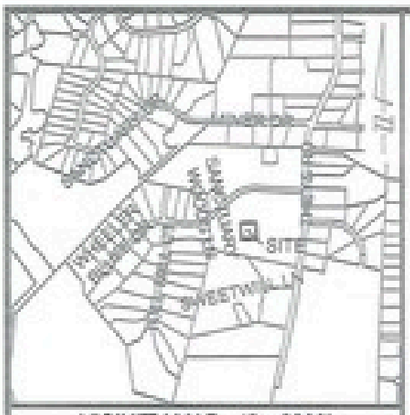
NUMBER OF BEDROOMS: 4 OR TOTAL NUMBER OF OCCUPANTS: 8
PERMITTED DESIGN FLOW: 360 GPD
BASEMENT: No BASEMENT PLUMBING: No
WASTEWATER STRENGTH: Domestic
SYSTEM TYPE: III B
LTAR: 0.300
EXISTING SYSTEM UTILIZED: No
PRETREATMENT STRENGTH REQUIRED:
EASEMENT FOR WW SYSTEM ASSOCIATED WITH PARCEL:

MAXIMUM TRENCH DEPTH: 24 INCHES
PUMP REQUIRED: Yes

SPECIFIC SYSTEM REQUIREMENTS: -System designed for 4 bedroom home, 360 gals per day with engineer flow reduction.
-Future Repair is a IIIb type system with 25% red. trenches.
-Max Trench depth of 24” and a 0.3 LTAR.
-Site serviced by community water.
-No cutting, grading, alterations, or utilities in septic area.
-Maintain all required setbacks.

ISSUED BY: 

DATE: 05/19/2021




VICINITY MAP - 1" = 2000'

"I CERTIFY THAT THIS MAP WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION USING REFERENCES SHOWN HEREON; THAT THE BOUNDARIES NOT SURVEYED ARE INDICATED AS DRAWN FROM INFORMATION IN BOOK _____ PAGE _____ OR OTHER REFERENCE SOURCE _____; THAT THE RATIO OF PRECISION OR POSITIONAL ACCURACY IS 1:10,000+; AND THAT THIS MAP MEETS THE REQUIREMENTS OF THE STANDARDS OF PRACTICE FOR LAND SURVEYING IN NORTH CAROLINA (21 NCAC 56, 1600)."

THIS 23 DAY OF December, 2020

SEAL L-4834

PROFESSIONAL LAND SURVEYOR

PLAN INFORMATION BLOCK

TYPICAL PLAN # _____

BUILDING DATA

FIRST FLOOR, FOOT PRINT (INCL. GARAGE AND OPT.): _____ SF TOTAL SF OF UNIT W/ ALL OPTIONS _____ SF

STORIES __ # BASEMENT ___(SLAB _CRAWL ____

INCL. OPTIONS: _____

"ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH CITY OF RALEIGH AND NCDOT STANDARDS AND SPECIFICATIONS."

IMPERVIOUS AREA

| | |
|---|---|
| HOUSE/PORCH: | 3,784 SF |
| COVERED PORCH: | 261 SF |
| DRIVEWAY/SIDEWALKS: | 1,315 SF |
| TOTAL: | 5,376 SF (17.41%) |

NOTE: IMPERVIOUS CALCULATIONS FOR AREA WITHIN LOT ONLY. (EXCLUDES R/W)

BUILDING SETBACKS R-40W

| | |
|---|---|
| FRONT: | 15' |
| SIDE: | 7.5' |
| CORNER SIDE: | 15' |
| REAR: | 15' |

**RBPR-057801-2021**

WAKE COUNTY N.C. P.D.I.

~~AS-BUILT SURVEY REQUIRED~~

LOT 83
SANCTUARY PARTNERS LLC
PIN: 0781049883
DB. 17055 PG. 1924
BM. 2020 PG. 1402

LOT 87
SANCTUARY PARTNERS LLC
PIN: 0781141055
DB. 17055 PG. 1924
BM. 2020 PG. 1402

LOT 85
SANCTUARY PARTNERS LLC
PIN: 0781141239
DB. 17055 PG. 1924
BM. 2020 PG. 1402

LOT 81
SANCTUARY PARTNERS LLC
PIN: 0781048596
DB. 17055 PG. 1924
BM. 2020 PG. 1402

176 ft
30 ft
10 ft
INITIAL SYSTEM AND REPAIR AREA
80 ft
LOT 82
32,022 SF
0.7351 ACRES
M.U.S.A. = 9,383 SF
10 ft
10 ft
10 ft
70 ft
40 ft
PROPOSED HOUSE LOCATION
PROPOSED CONCRETE DRIVE
33 ft
30 ft
180 ft
15' SEPTIC SUPPLY LINE EASEMENT BM. 2020 PG. 1402
SANCTUARY WOODS LANE

SITE PLAN APPROVED BY WAKE COUNTY N.C. P.D.I.
Dawn Tripp
04/16/20215:36:17 PM

SCALE: 1" = 40'

0 20 40 80

1. AREAS BY COORDINATE GEOMETRY UNLESS SHOWN OTHERWISE.
2. ALL DISTANCES ARE HORIZONTAL GROUND DISTANCES.
3. ALL STREETS ARE PUBLIC RIGHTS-OF-WAY UNLESS SHOWN OTHERWISE.
4. OTHER INSTRUMENTS OF RECORD MAY AFFECT THIS PROPERTY.
5. NO TITLE SEARCH PERFORMED FOR THIS SURVEY.
6. NO NCGS MONUMENT WITHIN 2,000 FEET OF PROPERTY.
7. NO FEMA FLOOD HAZARD AREAS PER FIRM NUMBER 3720071700J DATED MAY 2, 2006

| | |
|---|---|
| PIN | 0781049483 |
| LOT NUMBER | 82 |
| SUBDIVISION | SANCTUARY @ YATES MILL |
| BOOK OF MAPS | 2020 PAGE 1401-1404 |
| DEED BOOK | 17055 PAGE 1924 |

NORTH CAROLINA PROFESSIONAL SEAL L-4834 LAND SURVEYOR ASHLEY L. PARKER

LEGEND

- EIP = EXISTING IRON PIPE
- IPS = IRON PIPE SET
- CP = CALCULATED POINT
- PK = PK NAIL
- R/W = RIGHT-OF-WAY
- XXXX DENOTES ADDRESS

PROPOSED HOUSE LOCATION
FOR
SANCTUARY @ YATES MILL
WAKE FOREST WAKE COUNTY NORTH CAROLINA

2709 SANCTUARY WOODS LN.

PROJECT NO. 20191

BASS, NIXON & KENNEDY, INC.
CONSULTING ENGINEERS
• 5765 CHAPEL HILL ROAD, SUITE 250 RALEIGH, NORTH CAROLINA 27607
• TELEPHONE: (919)851-4422 OR (800)334-1871
FAX: (919)851-8866
• CORPORATION NUMBERS: NC0813 (C-4119); NC0814 (C-4307)

| | |
|---|---|
| DATE: | 12-23-2020 |
| SCALE: | 1" = 40' |
| SURV'D BY: | . |
| DRAWN BY: | ROB |

R:\2020\20191-The Sanctuary at Yates Mill\SURVEY\20191LDO\dwg\20191 LOT 82 PHL.dwg