HTE#_BNZ82058-0032

Harnett County Department of Public Health

No. 26757

	PERMIT # Operation Permit \$2,1415
	☐ New Installation 🔀 Septic Tank ☐ Nitrification Line ☐ Repair 🖂 Expansion
	PROPERTY LOCATION: 186 MANS MENDOW LAS CH. 180
	Name: (owner) KB HOMES LAKEIGH - DONHAM SUBDIVISION MESON POINTE LOT # 57
	System Installer: THOMOGO CAREAL Registration # Registration # Registration #
	Basement with plumbing: 🗆 Garage 🔼 Number of Bedrooms
	Type of Water Supply: Community Distance from well Types V and VI Systems expire in 5 years.
	(In accordance with Table V a) Owner must contact Health Department 6 months prior to expiration for permit renewal.
9	This system has been installed in compliance with applicable North Carolina General Statutes, Rules for Sewage Treatment and Disposal, and all conditions of the Improvement Permit and Construction Authorization.
	RXT RETENTION SESSION LAW 2014:120 SECTION 53:
	POND / - NEITHER THE STATE NOR ANY LOCAL
	HEALTH DEPARTMENT SHALL SE LIABLE FOR
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	1997 P/W (18)
	PERMIT COMPUTAGE
	PERMIT CONDITION!: I. Performance: System shall perform in accordance with Rule .1961. GNG 1224C 22357244
	II Monitoring: As required by Rule 1961
	III. Fraintenance: As required by Role 11701. Other.
	Subsurface system operator required? Yes 🗆 No 🔀 If yes, see attached sheet for additional operation conditions, maintenance and reporting.
	IV. Operation:
	V. Other:
	□ D-Box □ Pump □ Alarm □ H20Line □ PWR Line
	Following are the specifications for the sewage disposal system on the above captioned property.
	Type of system: Conventional Other Town The Subsurface No. of exact length width of depth of
	Drainage Field ditches + (Ext) of each ditch 75 LEXTER ditches 3 LEXT feet ditches 18 LEXT inches
	French Drain Required: Linear feet
	Authorized State Agent Date 11) 197 2020

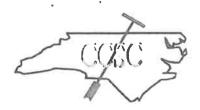
HTE# SFD1905-0037

Harnett County Department of Public Health

25929

PERMIT #	NA	Operation Permit	321417
		🖾 New Installation 🗟 Septic Tank 🗟 Nitrification Line 🗆	Repair 🗆 Expansion

System Installer	System installer:	Name: (owner) KS Hongs Carolina	PROPERTY LOCATION: 180 Punis Madow La (Chistien Lt. 2) SUBDIVISION Musin Render LOT # 57
PERMIT CONDITIONS: Community System shall perform in accordance with Table Value Performance: System shall perform in accordance with Table Value Performance: System shall perform in accordance with Table Value Performance: System shall perform in accordance with Table Value Performance: Value	Basement with planshing: Garage PR Number of Bedrooms Type of Water Supply: Gommunity Process Type of System Number of Bedrooms Type of System Number of Bedrooms Type of System Super Supply Suber Supply Type of System: Governational Process Type of System: Governational Supply Type	,	
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PERMIT CONDITIONS: Performance: System shall perform in accordance with Rule 1961.	PERMIT CONDITIONS: 1. Performance: 1. Monitoring: 1. Monitoring: 1. Maintenance: Subsurface system operator required? Yes: No Operation: V. Other: D-Box: D-B		
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Central Carolina Soil Consulting, PLLC

1900 South Main Street, Suite 110 Wake Forest, NC 27587 919-569-6704/fax 919-569-6703

September 23, 2020

Harnett County Staff Harnett County Environmental Health Department 900 S 9th St Lillington, NC

RE: Flow Reduction Certification and As-built
Mason Pointe Lot 57
186 Rawls Meadow Lane, Fuquay Varina, Harnett County, North Carolina
Project #:2031

Dear Harnett 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 Mason Pointe Lot 57 pursuant to session law 2014-120 and 2013-413. The home has 5 bedrooms and under the current flow calculations provided in the state rules would have a daily flow of 600 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 KB Homes installed in the home. The table includes flow rates for the existing 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 39% savings.

We are requesting a reduction of 20% for the use of low flow fixtures. This will provide an adjusted daily flow of 96 gallons per bedroom per day and a total flow of 480 gallons per day for the proposed 5-bedroom house. Central Carolina Soil Consulting, PLLC (CCSC) employees in conjunction with Bateman Civil Survey Company, reviewed fixture receipts from Thornton's Plumbing, Inc. that were installed in the house for KB Homes.

These fixtures or equivalent flow fixtures are required for the life of the home. Any change in fixtures that results in a change of the flow rates must be approved by an Engineer and Harnett County Environmental Health Services. In addition, the existing 1000-gallon septic tank shall be replaced with a 1250-gallon septic tank to comply with septic tank sizing for a 5-bedroom home.

With respect to increased effluent strength, we do not believe that the effluent strength will increase with the addition of a bedroom. The fixtures that are currently installed in the home are standard low flow fixtures that are installed in all of the homes built by KB Homes. These fixtures or fixtures with similar flow rates are used in houses all over the country and have been used for several decades. The additional bedroom will increase the volume of effluent, but will not change the strength of the effluent and should be consistent with levels required for residential waste in 15A NCAC 18A .1970 b, table 8.

We have reviewed the design and installation of the system located at 186 Rawls Meadow Lane and are satisfied that the drain field is installed per the original design and are capable of handling the additional bedroom with the installation of the proposed 1250-gallon septic tank. When the new 1250 gallon septic tank is installed we will certify the installation separately.

Attached are email communications with the home owners and representatives from KB Homes indicating their knowledge of Session Law 2014-120 Section 53.

If you need further information or have any questions please contact Matt Burdette at (919) 422-2827 or Tom Speight at 919-577-1080 2524 Reliance Ave, Apex NC 27539

Sincerely,

Central Carolina Soil Consulting, PLLC

Bateman Civil Survey Company

NCBELS# C-2378.

Matt Burdette

Environmental Specialist

MESPE TE

(nool)

Matt Burdette

From:

Cavalear, Rachel <rcavalear@kbhome.com>

Sent:

Wednesday, September 09, 2020 1:42 PM

To:

Matt Burdette

Subject:

FW: Mason Pointe Lot 57 - 186 Rawls Meadow Lane Fuquay Varina, NC 27526 - Septic Tank/Flow

Reduction

Hi Matt -

See below from Lot 57 acknowledging the Flow Reduction

Thank you Rachel

From: Kagen Cole <kagencole@gmail.com>
Sent: Wednesday, September 9, 2020 1:42 PM

To: Customer Service - Raleigh <RalCustomerService@kbhome.com>

Subject: Re: Mason Pointe Lot 57 - 186 Rawls Meadow Lane Fuquay Varina, NC 27526 - Septic Tank/Flow Reduction

STERMAREMAN Books and index or observation approximate or used entertractions and the principal section.

I can confirm that I have been made aware of this. Please proceed with the changes discussed. Thank you so much for your help and your close attention to this matter! Have a great day!

-Kagen Cole

919.285.8615

On Wed, Sep 9, 2020 at 11:06 AM Customer Service - Raleigh < RalCustomerService@kbhome.com > wrote:

Hello Kagen,

Per our earlier conversation please confirm I have made you aware of the following so that we can proceed with approval from the state for the flow reduction and septic tank size change.

This email is to confirm you have been made aware that KB Home is updating your septic permit from a 4 bedroom to a 5 bedroom to be consistent with how your home was built via a Flow Reduction submitted to the County and the State for review and approval. Per the state please acknowledge you have also been made aware of Session Law 2014-120 Section 53 which states "Neither the State not any local health department shall be liable for any damages caused by a system approved or permitted pursuant to this section".

Once we receive your approval we can proceed with the process.

Let me know if you have any further questions or call 919.768 7995

Rachel Cavalea	-

Thank you

888-KB-HOMES kbhome.com

Consider the environment before printing this email.

		Mason Poir	Mason Pointe Lot 57 AS BUILT			
	Item		Gal/min. or flush	Number of Fixures	Base Flow From 1982	Percent Water Savings
Ontional Bath	Tub/Shower Trim	Moen T2133EP	1.8 gal/minute	1	5.5 gal/minute	%29
Optional carri	Lavatory Faucet	Moen 6410	1.5 gal/minute	F	3.0 gal/minute	20%
Manage Court	Lavatory Faucet	Moen 6410	1.5 gal/minute	2	3.0 gal/minute	20%
Widster batti	Shower Trim	Moen T2132EP	1.8 gal/minute	1	5.5 gal/minute	%29
Kitchen	Kitchen Sink Faucet	Moen 7594	1.5 gal/minute		3.0 gal/minute	%05
0.400	Tub/Shower Trim	Moen T2133£P	1,8 gal/minute	1	5.5 gal/minute	67%
7 1110	Lavatory Faucet	Moen 6410	1.5 gal/minute	1	3.0 gal/minute	20%
Laundry	Laundry Sink Faucet	Proflo PFWSC1120 CP	1.2 gal/minute	-	3.0 gal/minute	%09
Toilets	Optional, Master, Bath 2	Gerber WS-20-918	1.28 gal /flush	3	3.5 gal/minute	63%

			CLOTHES						
TOILET FAUCET SHOWER W	SHOWER		` ≥	WASHER	LEAK	BATH	OTHER	DISHWASHER	TOTALS
24% 20% 20%		20%		16%	12%	3%	33%	5%	100%
144 120		120		96	72	18	18	12	009
63% 52% avg 67%		67%		0	%0	%0	%0	%0	39%
53 58 40		40	11	96	72	18	18	12	367



Buy it for looks. Buy it for life.

There is more than 1 version of this model.
Page down to identify the version you have.

DESCRIPTION

- · Metal construction with various finishes identified by suffix
- 1/2" IPS connections
- Includes metal pop-up waste assembly

OPERATION

- · Lever style handles
- · Maximum handle(s) rotation angle is 90° to full on
- Rotate hot side counterclockwise to open (clockwise to close)
- Rotate 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 • 1.5 gpm max (5.7L/min) at 60 psi

CARTRIDGE

- 1234 cartridge design
- Nonmetallic 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
- 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 衡 for lever handles

WARRANTY

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

Specifications



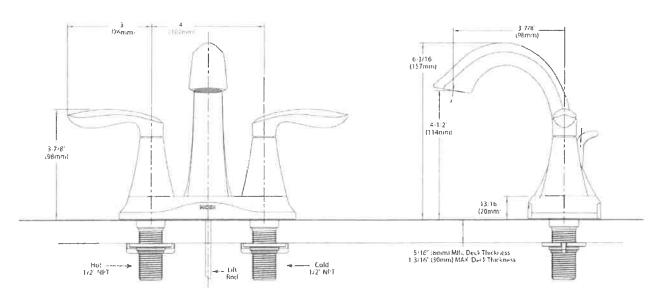
EVA™ 4" Lavatory Faucet with Metal Waste Assembly

Models: 6410 series

Bulk Models: 66410, 66411*
(Bulk packed 6 per carton),
50/50 waste assembly
*Includes hot (red) and cold (blue) indicators.

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





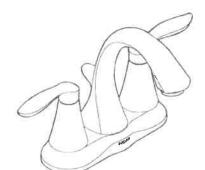
CRITICAL DIMENSIONS

(DO NOT SCALE)

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



Specifications



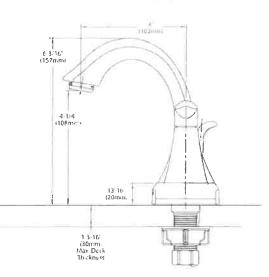
EVA™ 4" Lavatory Faucet with Metal Waste Assembly

Models: 6410 series

Bulk Models: 66410, 66411* (Bulk packed 6 per carton), 50/50 waste assembly *Includes hot (red) and cold (blue) indicators.

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





(DO NOT SCALE)

DESCRIPTION

- Metal construction with various finishes identified by suffix
- 1/2" IPS connections
- Includes metal pop-up waste assembly

OPERATION

- Lever style handles
- Maximum handle(s) rotation angle is 90 to full on
- Rotate hot side counterclockwise to open (clockwise to close)
- Rotate cold side clockwise to open (counterclockwise to close)

Flow is limited to 1.5 gpm max (5.7L/min) at 60 psi, for products made before October 2008 flow is limited to 2.2 gpm max (8.3 L/min)

CARTRIDGE

- 1224 cartridge design
- Nonmetallic 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 consumer purchaser
- 5 year warranty if used in commercial installations



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



Buy it for looks. Buy it for life.

DESCRIPTION

- Metal construction with various finishes identified by suffix
- Includes showerhead, arm, flange and diverter spout

OPERATION

- Handle operates counterclockwise through a 270° arc with off at 6 o'clock and maximum hot at the 9 o'clock position. Shut off in clockwise direction
- Adjustable temperature limit stop to control maximum hot water temperature
- Pressure balancing mechanism maintains selected discharge temperature to ± 3°

FLOW

- Showerhead is limited to 2.5 gpm (9.5 L/min) at 80 psi
- EP suffix models are limited to 1.75 gpm (6.6 L/min) at 80 psi NH suffix models contain no showerhead

CARTRIDGE

- 1222 cartridge design
- Nonmetallic/nonferrous and stainless steel materials
- Accommodates back to back installations

- Third party certified to meet ASME A112.18.1/CSA B125.1 and all applicable requirements referenced therein
- EP suffix models are third party certified to WaterSense®
- 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

Specifications



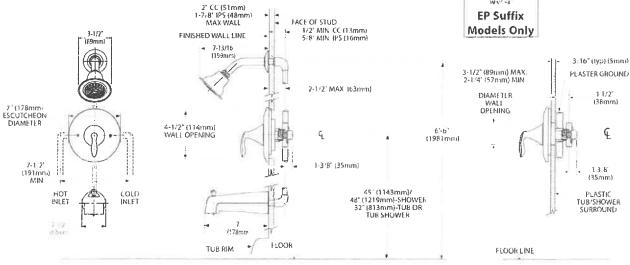
EVA™ POSI-TEMP Single-Handle Tub/Shower Trim Kit

Models: T2131 series - valve trim only

T62131 (Bulk Packed 12 per carton) T2132 series - shower trim only T62132 (Bulk Packed 12 per carton) T2133 series - tub/shower trim T62133 (Bulk Packed 12 per carton)

Valves: 62300 series 2500 series







THICK WALL APPLICATION

THIN WALL APPLICATION

CRITICAL DIMENSIONS

www.moen.com

There is more than one version of this model. Page down to identify the version you have.

FAUCET DESCRIPTION

- Reflex™ pulldown system offers smooth operation, easy movement and secure docking
- Metal construction with various finishes identified by suffix
- Duralock™ quick connect system
- Pullout 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 pull out wand provides the maneuverability for cleaning or rinsing
- 360' rotating spout
- Power Boost** Spray Technology

OPERATION

- Lever style handle
- Temperature controlled by 100° arc of handle travel
- Operates with less than 5 lbs. of force
- Operates in stream or spray mode in the pullout or retracted position

FLOW

Flow is limited to 1.5 gpm (5.7 L/min) at 60 psi

CARTRIDGE

1255™ Duralast™ cartridge for Single-Handle Faucets

STANDARDS

- Third party certified to IAPMO Green, ASME A112.18.1/CSA B125.1 and all applicable requirements referenced therein
- Certified to NSF 61/9 & 372
- Meets CalGreen and Georgia SB370 requirements
- Complies with California Proposition 65 and with the Federal Safe Drinking
- 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

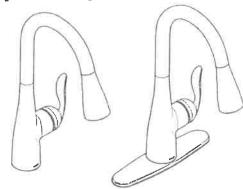
WARRANTY

Lifetime limited warranty against leaks, drips and finish defects to the original homeowner

5 year limited warranty when used in a commercial installation

(DO NOT SCALE)



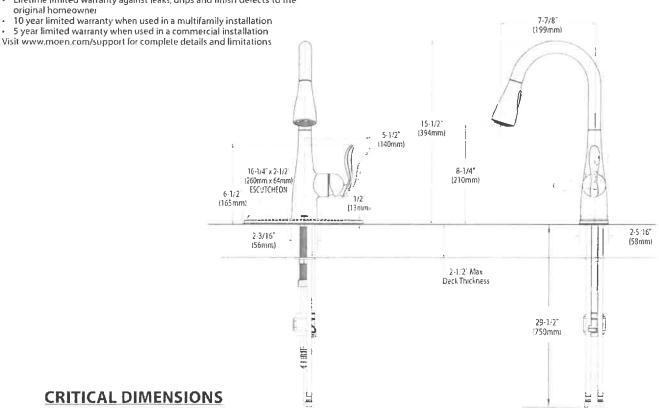


ARBOR™ Single Handle High Arc **Pulldown Kitchen Faucet**

Models: 7594 series

NOTE: THIS FAUCET IS DESIGNED TO BE INSTALLED THROUGH 1 OR 3 HOLES, 1-1/2" (38mm) MIN. DIA.





TO ORDER PARTS CALL: 1-800-BUY-MOEN www.moen.com

MOEN®

FAUCET DESCRIPTION

- Reflex'* pulldown system offers smooth operation, easy movement and secure docking
- Metal construction with various finishes identified by suffix
- Quick connect system
- Pullout 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 pull out wand provides the maneuverability for cleaning or rinsing
- 360' rotating spout
- Power clean spray

OPERATION

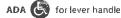
- Lever style handle
- Temperature controlled by 100' arc of handle travel
- Operates with less than 5 lbs. of force
- Operates in stream or spray mode in the pullout or retracted position
- When filling a vessel outside the sink, the pause feature conveniently stops the flow of water as the wand passes over the counter top $\ensuremath{\text{\textbf{FLOW}}}$

Flow is limited to 1.5 gpm (5.7 L/min) at 60 psi CARTRIDGE

1255™ Duralast™ cartridge for Single-Handle Faucets

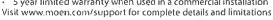
STANDARDS

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

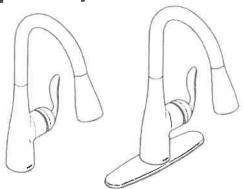


WARRANTY

- Lifetime limited warranty against leaks, drips and finish defects to the





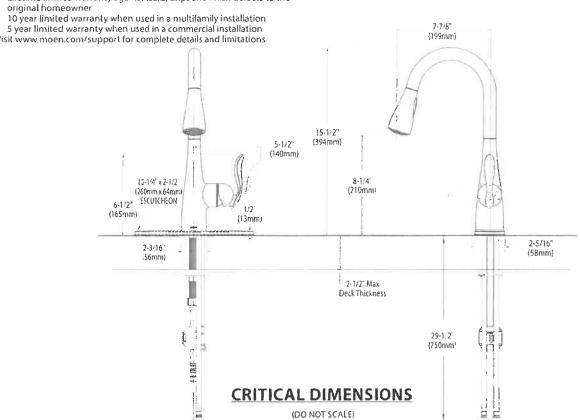


ARBOR™ Single Handle High Arc **Pulldown Kitchen Faucet**

Models: 7594 series

NOTE: THIS FAUCET IS DESIGNED TO BE INSTALLED. THROUGH 1 OR 3 HOLES, 1-1/2" (38mm) MIN. DIA.





TO ORDER PARTS CALL: 1-800-BUY-MOEN www.moen.com

PFWSC1120 Series

Two Handle Laundry Faucet

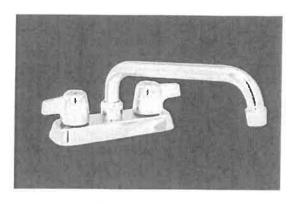


Product Features

- Ceramic Cartridges
- Metal Lever Handles
- Flow Rate (with hose thread adapter): Min. 4.0 GPM
- Flow Rate (with optional aerator): Max. 1.2 GPM
- Meets ANSI: A112.18.1M
- ADA Compliant

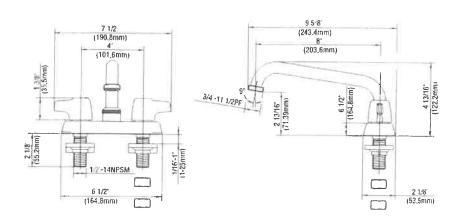


PFWSC1120CP Polished chrome



PFWSC1120CP

Product Specifications



Warranty and Codes

This product comes complete with installation, operating, care and maintenance instructions. This PROFLO faucet carries a limited lifetime warranty when installed in residential applications.

The warranty is five years in commercial applications.

This product meets ANSI: A112.18.1M.

Compliant with lead content requirements of California AB 1953.







* All measurements are nominal. Please verify before actual installation,





MAXWELL® 1.28 ErgoHeight™, **Elongated Toilet**

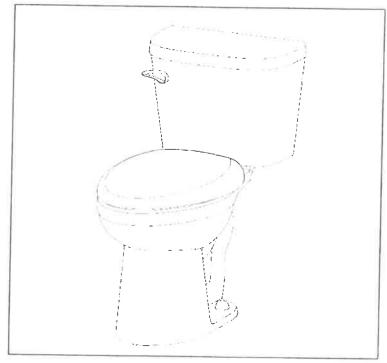
12" Rough-in

Features:

- 1.28 gpf/4.8 Lpf high efficiency two-piece toilet
- Elongated ErgoHeight™ bowl
- · Dual-fed siphon jet
- · Pilot fill valve
- 3" flush valve
- 2" glazed trapway
- Color matched front tank lever
- · Optional insulated non-sweating tank (28-992)
- · Optional right-handed trip lever (28-990-97)
- · Available in White, Bone and **Biscuit**
- · 2 bolt caps
- ADA Compliant
- Seat not included

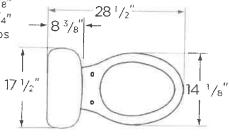
Dimensions:

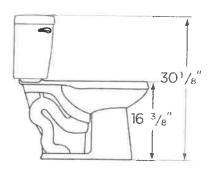
Height 30 1/8"
Width17 1/2"
Depth281/2"
Rough-in12"
Water Surface from Rim6 1/2"
Trapway2"
Water Surface 8 7/8" x 7 3/8"
Water Seal 2 1/4"
Shipping Weight85.5 lbs



Specifications: Bowl-#MX-21-928 Front Bowl

Tank-#28-990





THIS FIXTURE QUALIFIES ACCORDING TO ASME TEST PROCEDURES AS A HIGH EFFICIENCY WATER CLOSET WITH AN AVERAGE CONSUMPTION OF 1.28 gpf (4.8 Lpf) OR LESS.









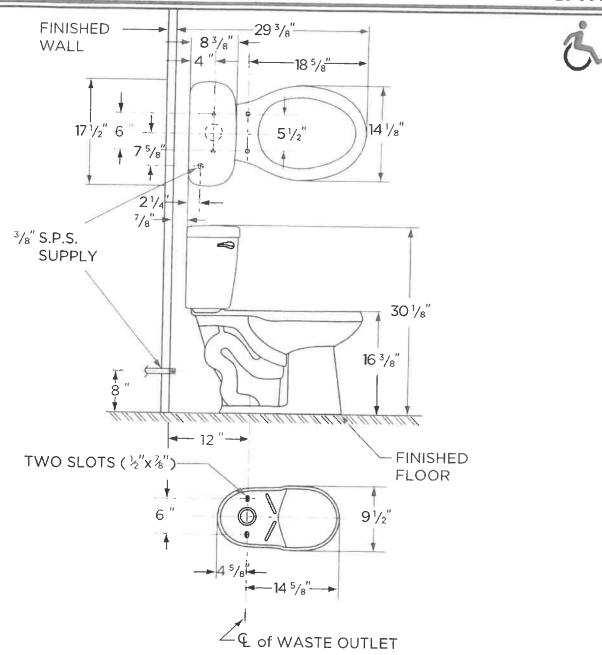
Job Name	
Date	
Model Specified	
Quantity	
Customer	
Contractor	
Architect/engineer	

www.gerberonline.com



1.28 gpf (4.8 Lpf) MAXWELL* 1.28 TOILET WS-20-918

17" High Elongated, 12" Rough-in (Bowl MX-21-928 with Tank 28-990)



NOTES:

All dimensions are in inches.

Illustrations may not be drawn to scale.

IMPORTANT:

Dimensions of fixtures are nominal and may vary within the range of tolerances established by ASME Standard A 112,19,2.

THIS FIXTURE QUALIFIES ACCORDING TO ASME TEST PROCEDURES AS A HIGH EFFICIENCY WATER CLOSET WITH AN AVERAGE CONSUMPTION OF 1.28 gpf (4.8 Lpf) OR LESS.