

# 117-160 ALTO<sup>®</sup>



Round Front, SmartHeight™, Vitreous China, Two-Piece Toilet

## FEATURES

- 3-bolt SmartFasten™ tank-to-bowl connection
- 1.6 gpf / 6.0 lpf low water consumption
- Round front SmartHeight™ bowl
- 2' flush tower
- Anti-siphon ballcock
- 12" rough-in
- Model 40 chrome-plated, plastic trip lever
- 2" glazed trapway
- The Mansfield<sup>®</sup> Limited Lifetime Warranty
- Available in White, Biscuit, and Bone



**MODEL 117-160**

Toilet seat not included

Available as CTK



ROUND





SMARTHEIGHT ADA



CTK

## COMPONENTS

MODEL #	DESCRIPTION	CODES/STANDARDS
117-160	Round front, SmartHeight™ two-piece toilet.	 
117	Round front, SmartHeight™ toilet bowl only. Less toilet seat. Specify color.	
160	Tank and cover only with left hand, front-mount, chrome-plated, plastic trip lever. Less supply. Specify color.	

## TANK TRIM & REPLACEMENT PARTS

40	Trip lever - chrome-plated, plastic trip lever, left hand
211-1112	Flush tower
08ULF-1112	Anti-siphon ballcock
630-0030	Replacement flush valve seal
160-LID	Tank lid

When properly installed, this product meets the requirements for the Americans with Disabilities Act of 1990 (ADA). Refer to local plumbing codes, as they may vary by location and application.





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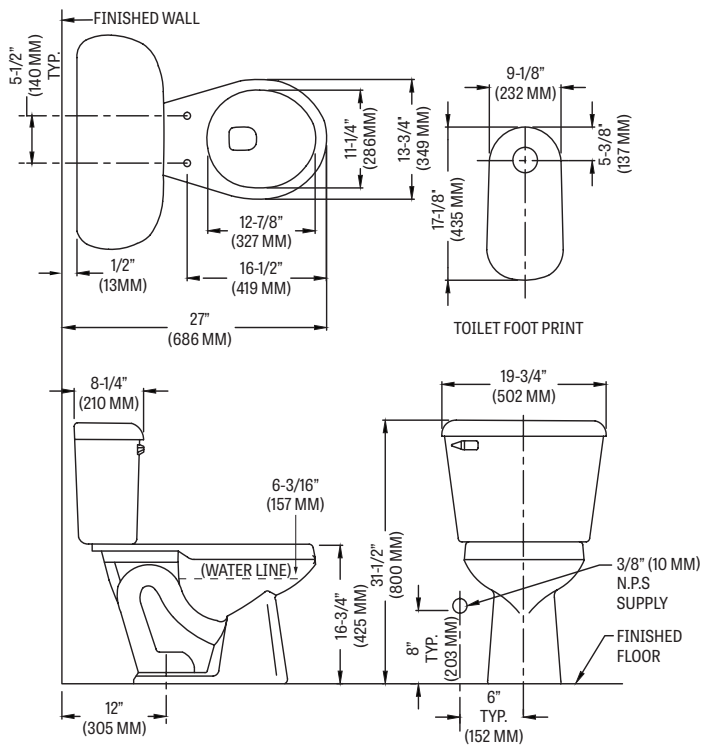
Round Front, SmartHeight™, Vitreous China, Two-Piece Toilet

## SPECIFICATIONS

MODEL #	DESCRIPTION	CODES/STANDARDS
117-160	Round front SmartHeight™ (1.6 gpf / 6.0 lpf) two-piece toilet	 

MATERIAL	Vitreous China
WATER PRESSURE RANGE	20 to 80 PSI
FLUSH SYSTEM	2" Flush Tower
WATER USAGE	1.6 gpf / 6.0 lpf
WATER SURFACE AREA	8' X 9'
ROUGH-IN	12'
MAP RATING	800 grams

TRAP DIAMETER	2'
TRAP SEAL	2-7/8"
SHIPPING WEIGHT	Model 117 - 49 lbs. (22.2 kg) Model 160 - 34 lbs. (15.4 kg)
WARRANTY	Vitreous China - Limited Lifetime Tank Trim - Limited One Year

TANK OPTIONS	TECHNICAL INFORMATION																												
	<b>Note:</b> these dimensions are nominal and subject to change without notice.																												
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Fixture performance and specifications meet or exceed ASME A112.19.2/CSA B45.1 standards, and other state and local codes.