



117-160



Alto™

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



Model 117-160 with SB1100 Primo Toilet Seat Shown in White

Features

- Contemporary Design
- 1.6 Gpf – 6.0 Lpf
- Glazed Trapway
- Superior Boxed Rim, Siphon SmartFlush™ Flushing Technology
- Outstanding Protection- The Mansfield® Limited Lifetime Warranty
- Available in White and Standard Colors (Consult Price Book for Specific Colors)
- Model 40 Chrome Plated Metal Trip Lever (Consult Price Book for Additional Finishes)

Model Numbers

Order No.	Description	Approx. Wt.
117-160	SmartHeight™, round front, two-piece toilet. 12" Rough-in. Includes tank trim and chrome plated, plastic trip lever, less toilet seat and supply. Specify color.	77 lbs. (35 kg)
117	SmartHeight™, round front, toilet bowl only. 12" Rough-in. Less toilet seat. Specify color.	46 lbs. (21 kg)
125	Same as model 160, except with 14" Rough-in	33 lbs. (15 kg)
125	Same as model 160, except with 14" Rough-in and color-matched trip lever. Specify color.	33 lbs. (15 kg)
159	Same as model 160, except with metal trip lever.	31 lbs. (14 kg)
160	Tank and cover only with left-hand, chrome plated, plastic trip lever. Less supply. Specify color.	31 lbs. (14 kg)
160RH	Same as model 160, except with right-hand trip lever.	31 lbs. (14 kg)
161	Same as model 160, except with Fluidmaster 400A ballcock.	31 lbs. (14 kg)
165	Same as model 160, except with cover lock.	31 lbs. (14 kg)
170	Same as model 160, except with tank liner.	31 lbs. (14 kg)
171	Same as model 161, except with tank liner.	31 lbs. (14 kg)
175	Same as model 160, except with cover lock and tank liner.	31 lbs. (14 kg)
180	Same as model 160, except with color-matched trip lever.	31 lbs. (14 kg)
190	Same as model 180, except with tank liner.	31 lbs. (14 kg)
SB1100	Round front SmartClose™ toilet seat.	5.5 lbs. (2 kg)
SB1150	Round front Primo™ toilet seat.	5.5 lbs. (2 kg)



Smartflush™
Total Confidence Flushing System

SmartHeight™

117-160

Alto™

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

Features and Upgrades

Three-Point Cushioned Tank-to-Bowl Connection

This assures perfect tank alignment in every direction. It permits fast, accurate, leakproof tank-to-bowl connections. Protects against tank breakage. . . can't be rocked loose. . . saves installation time. Furnished with brass nuts and bolts.



88 Anti-Siphon Ballcock

The 88 anti-siphon ballcock affords efficient toilet tank operation at high or low pressures. Adjustment screw allows water level adjustment without bending the float rod. Completely non-electrolytic and non-corrosive.



211 Flush Valve

The 211 flush valve provides 1.6 gpf – 6.0 Lpf water conservation efficiency with non-corrosive, long-life dependability. They seal tight every time. Won't rust or corrode.



Add a Toilet Seat

With a simple touch, Mansfield's newest SmartClose™ toilet seat closes gently and quietly. Or upgrade your toilet with a popular Primo™ toilet seat. Made of durable, high impact, heavy-duty plastic. For all applications - Get More, Get Mansfield®.



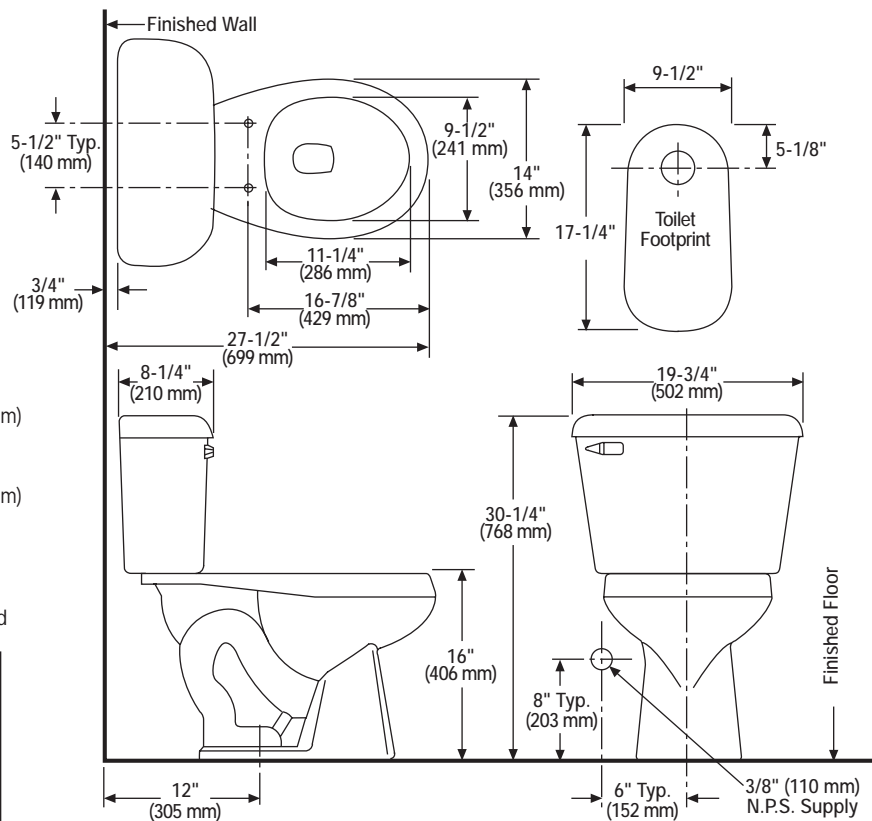
Technical Information

Specifications

Material	Vitreous China
Water Pressure Range	15 to 125 P.S.I.
Flush System	SmartFlush™ Flushing Technology
Water Usage	1.6 Gpf/6.0 Lpf
Water Surface Area	8-9/16" x 9-3/8"
Trap Diameter	1-7/8"
Trap Seal	2-7/8"
Shipping Dimensions	Model 117 25-3/8" x 14-7/8" x 16-7/8" (645 mm x 378 mm x 429 mm) Model 160 19-3/4" x 10" x 14-3/4" (502 mm x 254 mm x 375 mm)
Shipping Weight	Model 117 - 52 lbs. (24 kg) Model 160 - 34 lbs. (15 kg)
Warranty	Vitreous China - Lifetime Tank Trim - One Year Limited

These dimensions are nominal and are subject to change without prior notice.

Fixture performance and specifications meet or exceed, ANSI/ASME A112.19.2M standards and CAN/CSA B 45 standard, and other state and local codes.



NOTE: Rough-in measurements may vary 1/4" (6.4 mm ±).

See our complete line of acrylic, vitreous china, cast iron and enameled steel bathroom and kitchen fixtures, plastic tank trim and plumbing products.



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Form No. M117160 Printed in U.S.A. 7/04
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