



## Penal-Ware® 1452 Series CBC (California Title 24) - Compliant - Lav/Toilet Comby Offset Toilet Bowl



1452-LO-2-DMS-04-DMF-BP

Fixture May Show Some Available Options



Please visit [www.acorneng.com](http://www.acorneng.com) for most current specifications.

### CBC (California Title 24) Compliant - Lav/Toilet Comby - Offset Toilet Bowl

**Unit includes** specific detail to conform with CBC requirements including: Lavatory Clearance to Adjacent Side Wall [11B-606.6] and Toe Clearance for Extended Reach [11B-306.2 Exception].

**Fixture** is arranged to be installed on finished wall and serviced from an accessible pipe chase. Fixture is seamless welded construction and polished to a #4 satin finish. Fixture cabinet and toilet is fabricated of 14 gauge, type 304 stainless steel and polished to a #4 satin finish. The inside of the toilet bowl also has a #4 satin finish. Cabinet interior is sound deadened with fire-resistant material. Access panels are provided to service lavy valve pushbuttons. Optional Wall Sleeve or Metal Template are recommended for all installations to provide required wall openings. Fixture shall withstand loads of 5,000 pounds without permanent damage. Unit complies with the accessibility requirements of ANSI, UFAS, CBC (California Title 24), and ADA, regarding toilet and lavatory fixtures. Compliance is subject to the interpretation and requirements of the local code authority.

**Lavatory 'D' Bowl** is 15-1/4" x 12-1/2" x 4" deep. Standard P-Trap waste outlet is 1-1/2" O.D. plain end extending 3" beyond the back of fixture.

**Spout** selections are located on the deck to the rear of the bowl with valve controls located to the right and/or left of the DMS spout or DMB bubbler option.

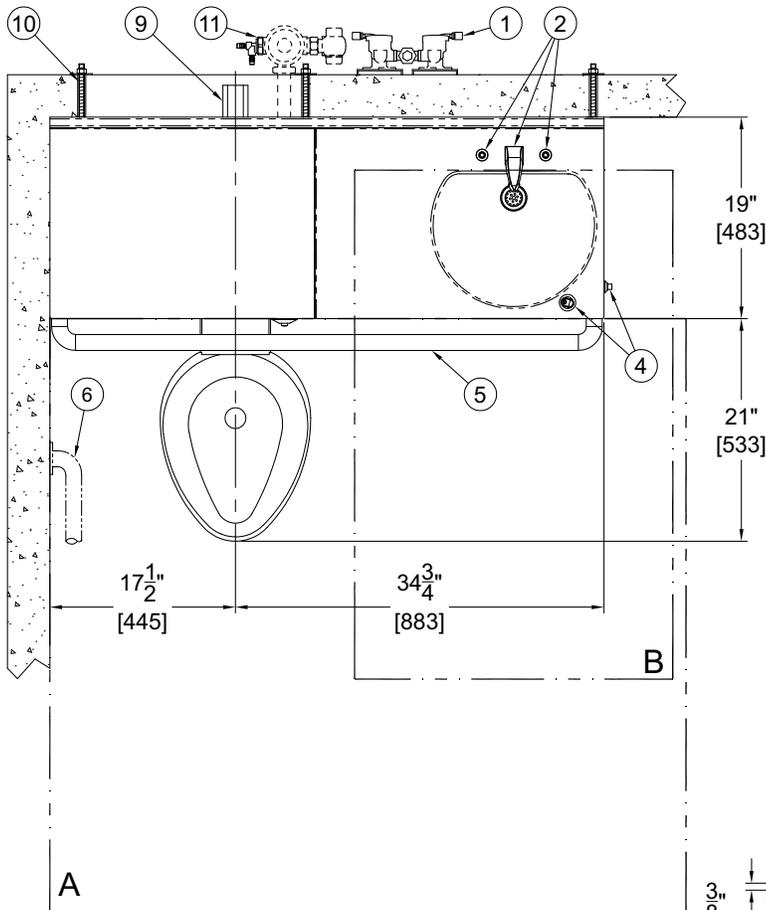
**Optional Valve** may be an Air-Control pneumatically operated, pushbutton valve with 1.4 GPM flow control for the DMS spout option, 0.50 GPM flow control for the -DMB Bubbler Spout options. Valve is metering, non-hold open type. Timing is from 5 to 60 seconds. The optional -DMF Cup Filler has a 0.7 GPM flow control and uses a Non-Metering Air-Control Valve. Pushbuttons require less than 5 lbs. to activate valve. Valve can be remotely located up to 10 feet from the operating pushbutton. Valve and Bubbler conform to the requirements of NSF61, section 9 and is IAPMO R&T certified to meet the lead free requirements of ANSI A117.1, Public Law 111-380 (NO-LEAD), CHSC 116875 and NSF/ANSI/CAN 61-2020 Section 9.

**Toilet** is blowout jet type with elongated bowl manufactured to ASME A112.19.3 and CSA B45.4 requirements and will flush with a minimum of 25 PSI flow pressure when used in conjunction with a minimum of 1.28 GPF. Trap has a minimum 3-1/2" seal and will pass a 2-1/8" ball. Toilet waste outlet is 2-3/8" diameter plain end extending 3" beyond the back of fixture for wall outlet and Recessed Gasket Flange for floor outlet. Unit is provided with Suicide Resistant Skirt (SPS optional on other fixtures).

**Grab Bar** is heavy gauge type 304 stainless steel construction, 1-1/2" diameter, extends the width of the fixture and measures 50-3/8" long from center to center. Grab bar is positioned behind toilet and is integral to the cabinet.

#### GUIDE SPECIFICATION

Provide and install Acorn Penal-Ware CBC (California Title 24) and ADA 2010 Compliant Lav/Toilet-Comby-Offset Toilet Bowl (specify model number and options). Fixture shall be fabricated from type 304 stainless steel. Construction shall be seamless welded and exposed surfaces shall have a #4 satin finish. Provide 50-3/8" long stainless steel grab bar to be located behind toilet. Fixture shall have an Air-Control pneumatically operated, metering, non-hold open pushbutton valve. Pushbuttons shall require less than 5 lbs. to activate valves. Spout, Bubbler, Cup Filler and Valves conform to the requirements of NSF61, section 9 and is IAPMO R&T certified to meet the lead free requirements of ANSI A117.1, Public Law 111-380 (NO-LEAD), CHSC 116875 and NSF/ANSI/CAN 61-2020 Section 9. Toilet shall be concealed blowout jet type with an elongated bowl, a self-draining flushing rim, and an integral contoured seat. Fixture shall be cUPC certified and toilet shall meet ASME A112.19.3 and CSA B45.4 requirements and will flush with a minimum of 25 PSI flow pressure when used in conjunction with a minimum of 1.28 GPF. Toilet trap shall have a minimum 3-1/2" seal that shall pass a 2-1/8" diameter ball and be fully enclosed. Cabinet interior is to be sound deadened with fire-resistant material. Fixture shall withstand loadings of 5,000 pounds without permanent damage. Fixture shall be furnished with necessary fasteners for proper installation.

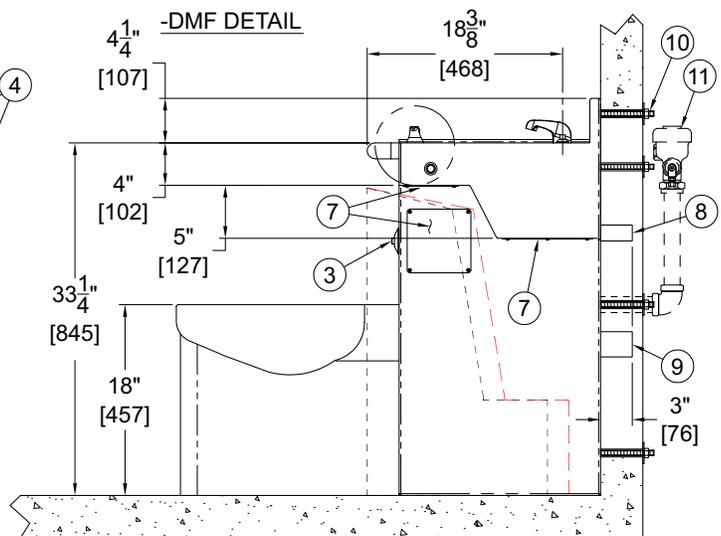
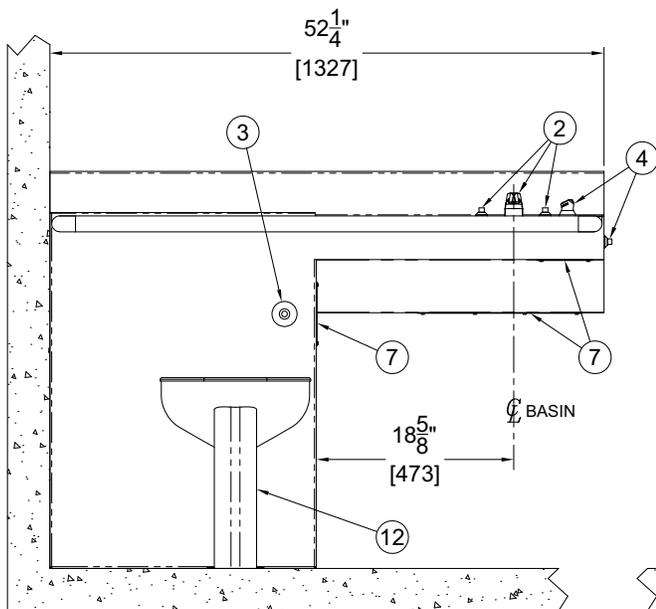
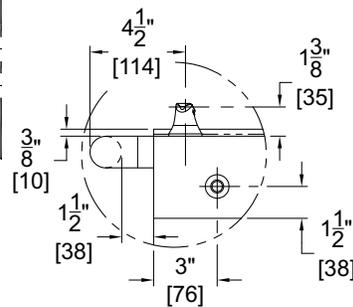


**CLEAR FLOOR SPACE DETAILS**

**A** 60" MIN WIDE x 56" MIN DEEP WATER CLOSET CLEARANCE REQUIRED; MAY OVERLAP TURNING SPACE

**B** 30" MIN WIDE x 48" MIN CLEAR FLOOR SPACE w/ TOE & KNEE CLEARANCE; EXTENDING 17" FROM FRONT APRON

1. OPTIONAL -04-M AIR-CONTROL VALVE
2. DECK MOUNTED SPOUT & -04-M VALVE OPTION, SHOWN
3. HYDRAULIC FLUSH VALVE PUSHBUTTON
4. OPTIONAL DMF-BP CUP FILLER & PUSHBUTTON
5. GRAB BAR
6. 42" LONG GRAB BAR BY OTHERS
7. ACCESS PANEL
8. 1-1/2" OD LAVY WASTE OUTLET
9. 2-3/8" OD TOILET WASTE OUTLET
10. WALL MOUNTING HARDWARE
11. HYDRAULIC FLUSH VALVE, SHOWN
12. -SPS STYLE SKIRT FEATURE STANDARD



CBC  
PROFILE

CBC  
EXTENDED REACH

PER 11B-306.2  
EXCEPTION

**1452-LO-2-DMS-04-M-DMF-BP-FVH**

# Penal-Ware® 1452: CBC (Calif. Title 24) Compliant - Lav/Toilet Comby



## WALL THICKNESS AND TYPE (Must Specify)

Thickness: \_\_\_\_\_ Type:  Concrete  Block  Steel

## MODEL AND OPTIONS SELECTION:

### BASE MODEL NUMBER

1452 52" Lav-Toilet Comby

### TOILET ORIENTATION (Must Specify)

-LO Left Offset  
 -RO Right Offset

### FIXTURE MOUNTING AND WASTE (Must Specify)

-2 On-Floor, Wall Outlet  
 -3 On-Floor, Floor Outlet w/ Gasket Waste Outlet

### SPOUT SELECTION (Must Specify)

-DMS Deck Mounted Spout  
 -DMB Deck Mounted Bubblers (In Lieu of Spout)  
 -BC Bubblers, Code  
 -BP Bubblers, Penal  
 -BPH Bubblers, Penal Hemispherical

### CUP FILLER SELECTION (Optional)

-DMF Deck Mounted Cup Filler (Cold water only) N/A with -03-M Tempered Supply  
 -BP Penal Style  
 -BPH Penal Hemispherical Style

### VALVE SELECTION (Must Specify)

#### Air-Control (Pneumatic)

-03-M Single Temp, Metering  
 -04-M Hot & Cold, Metering

#### Master-Trol® (Electronic)

-EVS1 Single Temp  
 -EVS2 Hot & Cold  
 -EVSP1 Single Temp, Piezo Button  
 -EVSP2 Hot & Cold, Piezo Buttons

#### Master-Trol® PLUS (Electronic)

-MTP1 Single Temp  
 -MTP2 Hot & Cold  
 -MTPP1 Single Temp, Piezo Button  
 -MTPP2 Hot & Cold, Piezo Buttons

#### -MTP VALVE OPTION

-PFB Power Failure Bypass (Provides drinking water in the event of power failure)

#### Time-Trol® (Electronic)

-MVC1 Single Temp  
 -MVC1-BAT Single Temp Battery Powered (Batteries Not Included)  
 -MVC2 Hot & Cold  
 -MVC2-BAT Hot & Cold Battery Powered (Batteries Not Included)

#### Programmable (Electronic) w/9VDC Plug-In Transformer

-PPZ1 Single Temp Programmable Piezo Button  
 -PPZ2 Hot & Cold Programmable Piezo Button

### VALVE OPTIONS

-BRS Brass Body Valve  
 -CI Cycle Interrupt for Time-Trol® Valves  
 -MA2 Manifoldded, 2-Stack  
 -PBH Hemispherical Pushbutton  
 -TF Transformer, 120VAC to 24VAC (-MVC option only)

### FLUSH VALVE GPF's (Must Specify)

-1.28 GPF

### FLUSH VALVE OPTIONS (Must Specify)

-EVSFV Master-Trol® Electronic Flush Valve  
 -EVSPFV Master-Trol® Electronic Flush Valve w/ Piezo Button  
 -FVBO Flush Valve by Others (Select with 2898 & 2802 Covers)  
 -FVH Flush Valve, ADA Hydraulic (-W and -W-ADA Only)  
 -MTPFV Master-Trol® PLUS Electronic Flush Valve  
 -MTPPFV Master-Trol® PLUS Electronic Flush Valve w/ Piezo Button  
 -MVCFV Time-Trol® Flush Valve (-W and -W-ADA Only)

### CABINET OPTIONS

-GBC Grab Bar Closure Plate (May be deemed non-compliant)  
 -LGB Less Grab Bar  
 -PH Paper Holder, not CBC Compliant (Opposite Toilet/Offset Orientation)  
 -TB Toothbrush Holder Single Hole (Installed on lavy side of unit)  
 -TG 12 Gage Cabinet  
 -TH Towel Hook,  Single  Double (Installed on lavy side of unit)  
 -VG3 Vent Grille 8-3/4" x 8-3/4"

### LAVATORY WASTE OPTIONS

-CW Combined Waste (Verify Code Compliance)  
 -LWE Lavy Waste Extension (3" Standard) Specify Length Beyond Fixture: \_\_\_\_\_  
 -OF Lavatory Overflow

### TOILET OPTIONS

-CO1 Cleanout w/ 2-3/8" OD O-Ring Connection to No-Hub 4" (Plain End Only, Not applicable with -GW or -3 Floor Outlet)  
 -CO1-3 Cleanout w/ 2-3/8" OD O-Ring Connection to No-Hub 3" (Plain End Only, Not applicable with -GW or -3 Floor Outlet)  
 -COH Cleanout Hook Assembly  
 -FT Flood-Trol (Manual Reset)  
 -FTA Flood-Trol Auto-reset  
 -FTE Flood-Trol Electronic  
 -FVT Flush Valve Thru Wall Connector  
 -GW Gasket Toilet Waste (Wall Outlet)  
 -HPS High Polished Seat  
 -PC Pinned Cleanout Plug (For CO1 Options above)  
 -TSC Toilet Shipping Cover  
 -TWE Toilet Waste Extension, (3" Standard) Specify Length Beyond Fixture: \_\_\_\_\_  
 -WO3B 2-3/8" P-Trap w/ 3" OD Plain End Waste Outlet

### PRODUCT OPTIONS

-EGE Enviro-Glaze, Specify Color: \_\_\_\_\_ Cabinet and Toilet Exterior Only  
 -LPFV Less Punching for Flush Valve  
 -MT Metal Template (Only 1 required per project)  
 -SW Wall Sleeve

Please visit [www.acorneng.com](http://www.acorneng.com) for most current specifications.

**WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

<p><b>Important:</b> Installation instructions and current rough-in are furnished with each fixture. Do not rough in without certified dimensions. Dimensions are subject to manufacturer's tolerance of plus or minus 1/4" and change without notice. Acorn assumes no responsibility for use of void or superseded data. © Copyright 2009 Acorn Engineering Company</p>	
<p style="text-align: center;">Selection Summary</p> <p>Model No. &amp; Options _____</p> <p>Quantity _____</p>	<p style="text-align: center;">Approved for Manufacturing</p> <p>Company _____ Title _____</p> <p>Signature _____ Date _____</p>