

Fixtures have slight differences in depth of closet horn and wall flange thickness, so the distances that fixture studs and couplings should extend past finished wall may vary. The formulae below determine exact dimensions.

Formula for Dimension D -

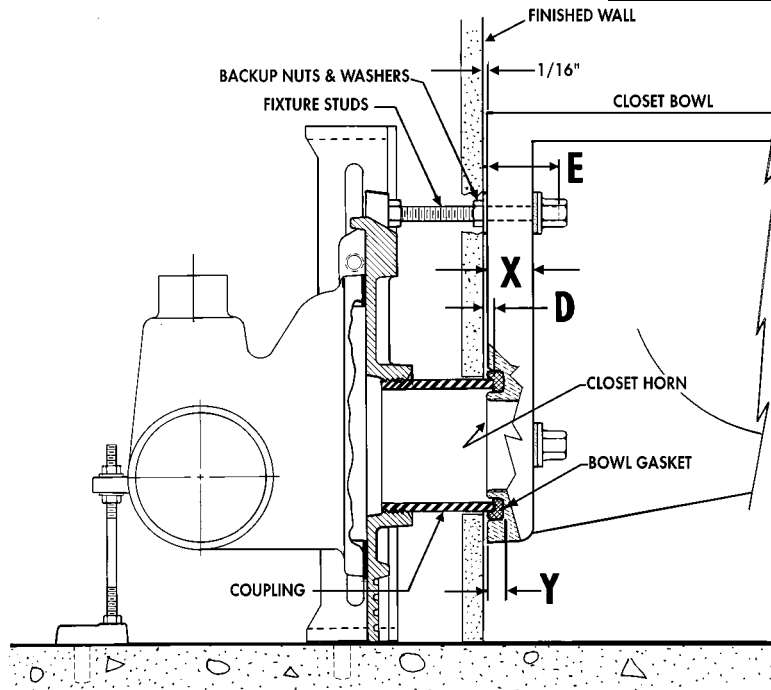
Distance closet coupling should extend beyond finish wall.

$$D = Y + 1/16 - 1/2$$

Formula for Dimension E -

Distance fixture support studs should extend beyond finish wall.

$$E = X + 1/16 + 5/8$$



Y = Depth of closet horn.

X = thickness of closet wall flange

1/16 = Distance closet bowl should be located from finished wall (see note)

NOTE: Backup nuts and washers must be set to take full loading from the fixture.

Siphon Jet vs. Blowout Water Closets

Wade recommends the use of siphon jet water closets instead of blowout water closets in battery installations for above floor horizontal waste piping. Integrally cast deflector baffles on all Wade carrier-fittings prevent straight blow through from back to back fixtures. Gravity aids in directing waste into the drainage system on vertical fitting installations.

Gravity plays a lesser role on horizontal fittings. During peak usage, as toilets are flushed, fluid and waste levels within the horizontal fittings rise, sometimes high enough to spill over into the trap way of the opposite fixture. Blowout bowls are designed to provide minimum interference to escaping wastes; they also offer minimum interference to wastes that may back up into the bowl.

Figure 1 is an illustration of a typical back to back blowout installation. Notice how easily back flow can occur. Figure 2 illustrates a typical siphon jet installation. The downward turn of the waste passage after the trap seal and before the horizontal run to the closet outlet serves as a dam to prevent waste from re-entering the bowl during peak usage. Blow through and spill over is virtually impossible.

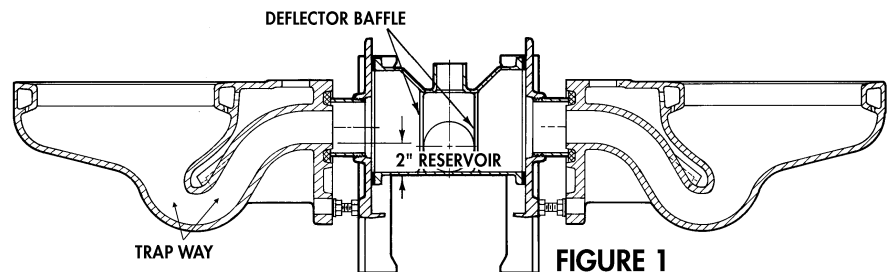


FIGURE 1

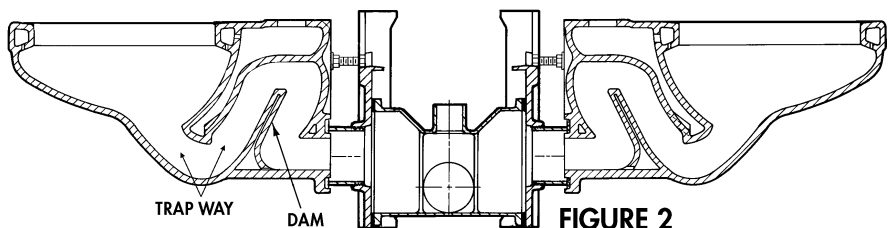


FIGURE 2