

Subject: Calculation of Masonry Opening

The following are instructions on how to calculate the masonry opening for EAS windows and doors.

- 1. Current 143 Vinyl Window Line and Aluminum window line:
 - a. Identify the Tip to Tip size of the windows ordered.
 - b. Subtract 1/2" from each side for the flange of the window, 1" total from both height and width to get to the buck size of the window.
 - c. Identify the substrate being used, 1X buck, 2X buck or strait to masonry. Add the buck thickness to the window buck size. Add 3/4" to each side for 1X buck. Add 1 1/2" to each side for 2X buck.
 - d. Identify the shim space to be allowed for installation. 1/4" is maximum allowed per side per EAS product approvals. Add the shim space to each side to the measurement from above.
 - e. The finished dimension is the masonry opening for the window.

Example calculation: Window Tip to Tip size = 36" x 60"

- Subtract 1/2" for flange from each side = 36" 1" = 35", 60" 1" = 59" Window buck size is $35" \times 59"$.
- Substrate to be used is 1X buck. Add 3/4" to each side, 1 1/2" total to height and width: 35'' + 1 1/2" = 36 1/2". 59'' + 1 1/2" = 60 1/2". New dimension is 36 1/2" x 60 1/2".
- 1/4" maximum shim space per side will be used. Add 1/4" to each side. Total 1/2" to height and width. 36 1/2" + 1/2" = 37". 60 1/2" + 1/2" = 61".
- Masonry Opening for a 36" x 60" Tip to Tip Vinyl Window = 37" x 61"
- 2. All Vinyl and Aluminum Doors:
 - a. Identify overall frame size. If ordering a 96" x 96" unit the overall frame size/buck size is 96" x 96".
 - b. Identify the substrate being used, 1X buck, 2X buck or strait to masonry. Add the buck thickness to the door overall size/buck size at jambs and head. Add 3/4" for 1X buck. Add 1 1/2" for 2X buck. At the sill add 1/8" to allow leveling of sill.
 - c. Identify the shim space to be allowed for installation. 1/4" is maximum allowed per side per EAS product approvals. Add the shim space to the jamb and head dimension from above.
 - d. The finished dimension is the masonry opening for the door.



Example calculation: Door Overall Frame Size/Buck Size = 96" x 96"

- Substrate to be used is 1X buck. Add 3/4" to each jamb, 1 1/2" total to width: 96" + 1 1/2" = 97 1/2". Add 3/4" to head, 96" + 3/4" = 96 3/4". New dimension is
- New dimension is 97 1/2" x 96 3/4".
- 1/4" maximum shim space per side will be used. Add 1/4" to each jamb. Total 1/2" to width. 97 1/2" + 1/2" = 98". Add 1/4" to head and 1/8" to sill for height dimension= 96 3/4" + 1/4" + 1/8" = 97 1/8".
- Masonry Opening for a 96" x 96" Overall Frame Size Door = 98" x 97 1/8"

If you still have questions please feel free to contact Tim Hoard, Manager of Engineering at EAS at 1-800-686-8902 or at thoard@easternmetal.com.