

## RE: Free Air Space of standard Flat Slat Louvers

This correspondence is to address the questions regarding the approximate 50% of static free air space (volume) for our flat slat louvers. The information provided to our customers is to assist them in making decisions on the size louver(s) to purchase for their applications and not designed as an end-all determination. Several additional factors, beyond our control, must be considered by the end user including: drag coefficient factor, desired application location, finish application (paint, stain, etc.), environment, etc.

The percentage denoted on our website was based upon a 3-D calculation of cubic inches (total volume minus wood volume = static air volume with an additional +/- factor). This percentage is intended to be used as a ratio factor in determining the square inches of air space in a given louver (see below). Please note that we build custom louvers of varying sizes and each custom louver percentage would vary accordingly. The percentage stated in our catalog has a disclaimer of "approximately" to allow for this variable and is commonly used in advertisement.

Therefore, using a direct derivative of the 50% static free air space (volume) as an example of a 16" x 30" flat slat louver, the approximate square inch air space would calculate as follows:

$$16'' \times 30'' = 480 \text{ sq in}$$

$$480 \text{ sq in} \times 50\% = \text{approximately } 240 \text{ sq in of air space per unit}$$

Please contact us for the actual static free air space. For this example a 16" x 30" has 47.72% free air space.