



# MAGNUM® Casement 4-Bar Hinges

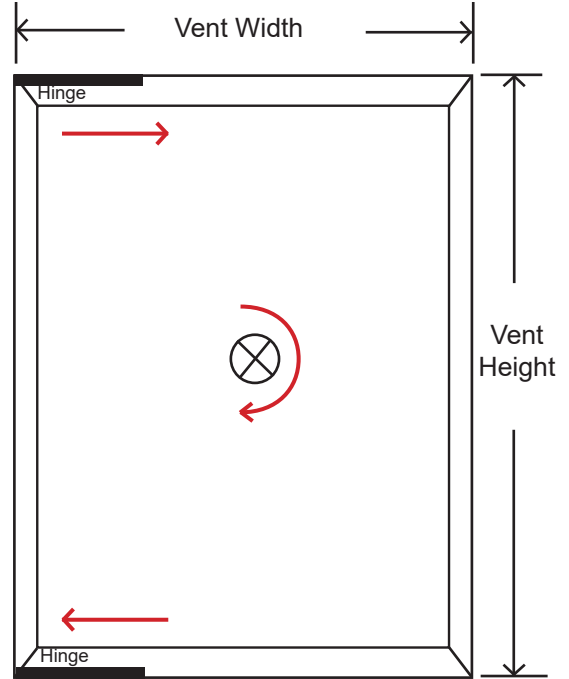
## Rotational Load Information

**Calculation:**

$$\frac{[(\frac{1}{2} \text{ Vent Width}) \times \text{Sash Weight}]}{\text{Total Vent Height}} = \text{Rotational Load}$$

**Rule of Thumb:**

Recommended Maximum Weight (in lbs) Per Hinge	
Hinge Series	Rotational Load
4000	36
5000	50



**Example:**

Frame Size: 36" x 60"  
 Vent Size: 33" x 57"  
 Vent Weight: 103 lbs

**Formula:**

$$\frac{[(\frac{1}{2} \times 33) \times 103]}{[57]} = \frac{[16.5 \times 103]}{[57]} = \frac{1,699.5}{57} = 29.81 \text{ lbs Rotational Load}$$

**Note:**

Do Not Exceed Hinge Max Rated Weight Capacity

The above information reflects actual hinge capacities. The design and fabrication of the vent (i.e.: corner assembly, glazing methods, cross blocking) will affect the ability of the vent to support the weight and rotational loads.

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CSL-00100\_r0\_4-Bar Casement Rotational Load