



Do you have a project requiring you to ventilate a large awning window in a commercial application? If so, Truth Hardware has the answer. The new Superior 4-Bar Hinge.

STRENGTH & PERFORMANCE

AAMA Certified in excess of 300 lbs. in load testing. Truth's new 300 series stainless steel Superior Hinge has been engineered to work on awning sashes ranging from 64" - 86" in height, and will provide a choice of 20°, 18°, or 14° of opening. In addition, the Superior Hinge surpasses AAMA's 904.1 Cycle Test measuring durability (over 8,000 cycles). A positive lead-in of the hinge arm into the "hat" aids in the travel of the hinge arm while opening and closing of the window.

INSTALLATION & FLEXIBILITY

With a standard stack height (5/8") equal to Truth's popular Heavy Duty 4-Bar Hinges, window manufacturing changes are eliminated, allowing for continuity in your window profile designs. To accommodate the larger window styles of today - the Superior Hinge comes in a 28" length. The non-handed design of the Superior Hinge helps cut down on expensive inventories.

OPTIONS: Riser Block (#16076) allows the ability to adjust the maximum opening angle from 20°, 18°, or 14°, depending upon number used (see table). The Adjustment Block feature (#16088) will help enhance flexibility in installation. This will adjust the sash in relation to the frame. Providing plus/minus 2 mm worth of adjustment, the Adjustment Block has been load tested to 200 lbs., and can be used on all Truth 4-Bar Heavy Duty Hinges

WARRANTY:

Protected under the terms of the Truth Warranty for Window and Door Manufacturers and Authorized Distributors. Refer to Truth's Terms and Conditions for further details.

MATERIAL: The Superior Hinge is made of a non-magnetic non-magnetic corrosion resistant stainless steel. Brass shoes which slide the hinge arm along the track help to provide the needed friction necessary for awning applications.



ORDERING INFORMATION & OPTIONS

1. Order Superior Hinge - **#34.87.00.200**
2. Order two hinges per window.
3. Order optional items:
#16076 - Riser Block for establishing opening angle. Quantity to be determined by amount of opening required.

#16088 - Adjustment Block. Order one per hinge.

RECOMMENDED SCREWS

7 - #10 Phillips pan head stainless steel screws. Length and thread type to be determined by profile design. See Truth Tips for additional screw selection information.

INCLUDE TRUTH SPECS ON YOUR NEXT WINDOW PROJECT

4-Bar type hinge for awning windows, which projects the vent while opening to avoid interference between frame and sash.

Window hinges to be of 4-bar type design. Hinges shall be non-handed and constructed of 300 Series non-magnetic corrosion resistant stainless steel with a brass shoe. Hinges must be certified to AAMA 904.1 specifications, and will accommodate a sash height range of between 64" and 86", and provide a variety of openings.

Hinges shall be 34 Series 4-Bar, as manufactured by Truth Hardware.

TRUTH TIPS

1. Placement of a 4-Bar Hinge relative to the outside edge of the frame depends upon the amount of overlap of the sash on the frame. As a general rule the hinge should be mounted flush to .250" (6.3 mm) of the outside edge of the frame. This dimension depends upon the amount of overlap. A .250" (6.3 mm) dimension will allow proper clearance for a window system having approximately .312" (7.9 mm) of sash overlap. If interference occurs between the sash and the frame, then the hinge

must be moved further outboard on the frame, or the overlap must be reduced.

2. Particular attention must be given to 4-Bar Hinge mounting. It is important that the ventilator bar be offset to a point where it is flush with the outside edge of the track. This results in an offset between the screw centerlines of the ventilator bar and hinge track (see the application drawing of the particular hinge).

3. To increase the overall hinge height of 4-Bar Hinges, aluminum shims applicable to the ventilator bar are available in various thicknesses. Truth provides some popular sizes of shims, however, other sizes must be provided by the window manufacturer.

4. Special consideration should be given when designing an awning window. Please consult Truth Tech Bulletin #2 for further information.

5. For accurate hardware placement in vinyl or metal applications, pre-drilling of the window profile is recommended.

6. Mounting screws must pass through two PVC walls or one PVC wall and one insert wall.

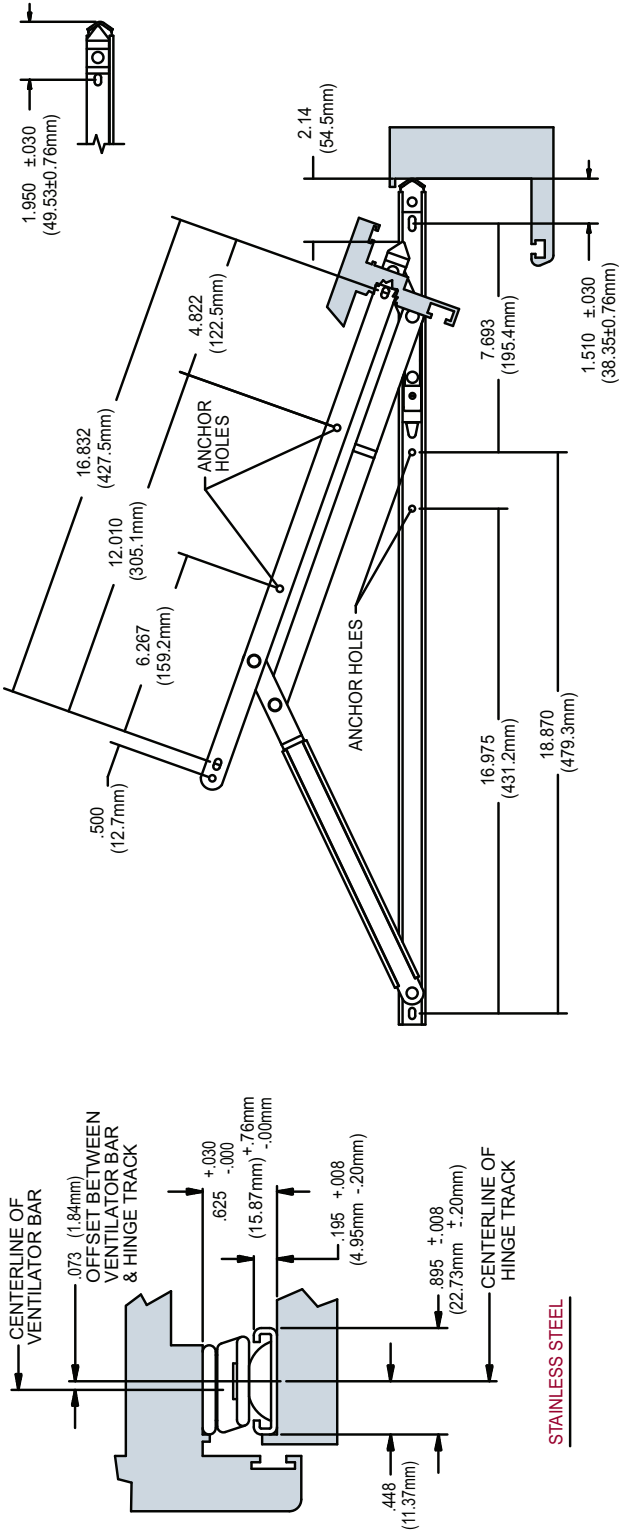
7. For metal window profiles, Truth recommends machine screws however, in most applications sheet metal screws will provide adequate holding power.

8. Hinge life can be prolonged by periodically adding a drop of lightweight oil at each riveted joint.

9. For easy correction of out of square, or racked window applications, the use of Truth Jamb Jack III frame adjusters is recommended. Frame adjustments can improve both weather seal tightness and sash operation over the life of the window.

SUPERIOR 4-BAR HINGE

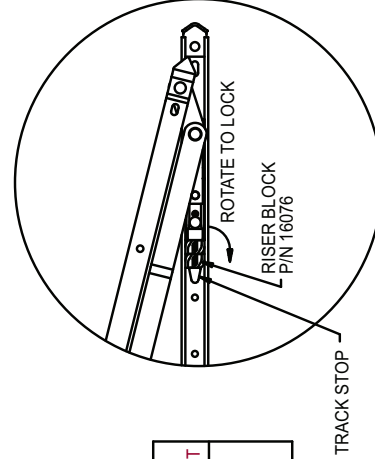
TRUTH SUPERIOR 4-BAR HINGE (Anderberg 301 Series)



RECOMMENDED SCREWS:
STAINLESS STEEL: 8X NO. 10 PHILLIPS PAN HEAD STAINLESS STEEL SCREWS.
(LENGTH & THREAD TYPE TO BE DETERMINED BY PROFILE DESIGN)

PART NO.	HINGE LENGTH	VENT HEIGHT RANGE	DEGREE OF OPENING		REQUIRED NO. OF RISER BLOCKS PER HINGE	MAXIMUM VENT WEIGHT
			STD.	STOP		
34.87	28" (711.2 mm)	64" (1625.6 mm) to 86" (2184.4 mm)	20°	NONE	ONE	300lb (136.05kg)
			17°	ONE		
			14°	TWO		

- INSTALLATION OF RISER BLOCK**
REQUIRED ON BOTH HINGES OF WINDOW APPLICATION
- 1) OPEN HINGE HALF WAY
 - 2) INSERT RISER BLOCK INTO THE TRACK BETWEEN THE SLIDE SHOE AND THE TRACK STOP
 - 3) ROTATE RISER BLOCK 90° TO LOCK INTO POSITION USING A SLOTTED SCREW DRIVER
 - 4) REPEAT STEPS 2 & 3 FOR SECOND RISER BLOCK IF NEEDED



INSTALLATION OF RISER BLOCK