Notes re: Klima-Flex latch installation on JCI access doors
12/17/2009

Outswing doors:

1. Use the tinnerman nut on the inside trim escutcheon as intended. This will help to stabilize the latch inside the bore hole and thereby insure proper compression of the latch gaskets against the door skin.
2. It is necessary to compress the gasket on the latch-side more than on the hinge-side because of the "repositioning" of latch components within the door assembly when the unit is under pressure. **Adjust the roller cam so that the latched door panel touches the gasket stop leg at the point where the cam engages the frame.** Any combination of washers, nuts, handles, or link arms is acceptable to use as long as the door meets the stop leg when latched.
3. For multi-point installations:
   a. Depending on the orientation of the link brackets, the connecting rod will either pull or push the roller cams of the "driven" latches onto the stop leg of the frame.
   b. In the "push" configuration the rod will flex in relationship to its length. Excessive flex will prevent the driven cam/s from achieving full engagement.
   c. For a 5/16" (8mm) rod of cold formed (ie, 10-18) steel the maximum workable rod length is somewhat greater than 36" but less than 42". A 42" long rod of 10-18 steel will flex enough that the driven cam will not reach full engagement and the panel will not meet the stop leg of the frame.
   d. When rod flex prevents full engagement of the driven cam, a guide bracket must be used to provide rod stability. Any device that provides stability and remains in place is satisfactory. See drawing below for an example of a guide bracket fabricated from sheet metal.
   e. Use a lock nut (provided) to **firmly** secure the multi-point link to the shaft assembly.

Inswing doors:

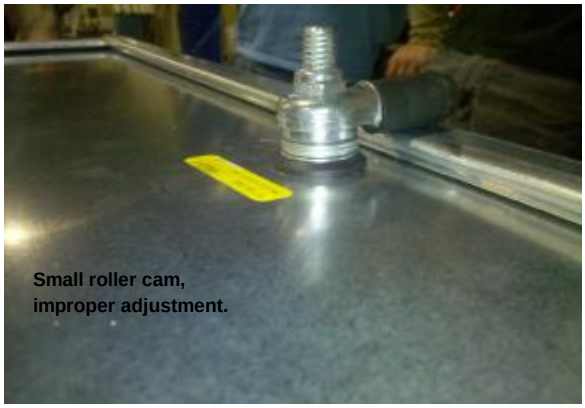
The inswing latch is not designed for cam adjustment. Alternative cams are available from Allegis for different grips, but each cam is only designed for a constant grip. Additional gasket compression should not be necessary on inswing doors.

Observations/suggestions from training sessions:

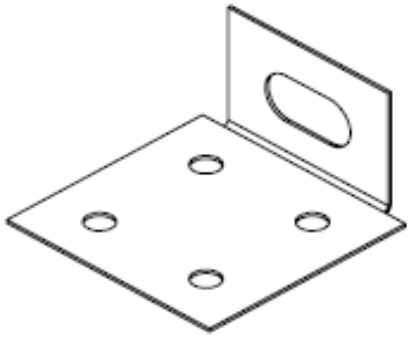
1. Consider using 5/16" washers rather than 3/8" washers as spacers on the latch shaft.
2. Consider "Shakeproof GX" fasteners for secure attachment of the rod guide device to sheet metal skin of door.
3. Latch adjustment on single-point latches is different from multi-point latches due to the use of a different roller cam. (See photo below.) We did not find a suitable combination of materials on hand at the latch installation station to permit proper positioning of this cam. Is it possible that JCI could use the larger roller cam for single-point latches? The larger cam costs $.25 more, but the advantage would be that adjustment procedures would be uniform for all doors.
4. Currently there is cam interference with the bulkhead in filter sections. Allegis has a short, small-diameter roller cam that may alleviate this problem. Use part #2311041.

Large roller cam with multi-link.

Illustrates proper compression.



Small roller cam, improper adjustment.



Type of rod guide bracket.