

Environmental Constraints

Normal operating conditions for all hinges are:

- Operating temperature range -20°C to +60°C
- Operating humidity range 10% Relative Humidity to 95% Relative Humidity
- The materials used will not degrade due to ultra violet light, or when using neutral acidity non solvent cleaning chemicals, at a rate faster than other parts of the window assembly.

Maintenance and Lubrication

As with most mechanical devices, hinges require periodic maintenance and lubrication. The hinge in general and particularly the pivots, sliding shoe and track must be kept free from dirt, debris and any obstructions at all times.

- Every Five Years - Carry out the following checks every five years:
 - a. Clean any dirt or debris from the hinge and clear any obstructions from the pivots, sliding shoe and track.
 - b. Lubricate all pivot points with light machine oil and wipe away excess, one drop per pivot is sufficient. We suggest one of the following lubricants or equivalent:
 - a. General light engineering oil
 - b. Castrol Everyman
- Products that are installed within (3) and (6) miles of salt water require additional maintenance.
 - a. If within (3) miles of an ocean, clean dirt/debris out of track of hinge and apply lubricant as stated above. This procedure should be completed once every 6 months.
 - b. If within (6) miles of an ocean, clean dirt/debris out of track of hinge and apply lubricant as stated.

Hinge Operating Life

To attain optimum operating life all criteria listed above under; environmental constraints, vent sizes weights and opening angles, and maintenance and lubrication must be adhered to.

- STERLING[®] hinges will function for up to 30,000 cycles when top and side hung under normal conditions of use. This performance is subject to compliance with SECURISTYLE[®] installation and maintenance instructions.