

X-Drive Operators:

- All operators are verified to meet or exceed AAMA 901, "Rotary Operators for Windows"; and listed on the Verified Components List
 - Dual arm rated to Architectural grade C-AW40 (160 in-lbf for 500 cycles; 80 in-lbf for 7500 cycle)
 - Split arm and single arm rated to commercial/heavy commercial grade C-HC40 (120 in-lbf for 500 cycles; 60 in-lbf for 7500 cycle)
 - Awning rated to commercial grade AP-C30 (160 in-lbf for 500 cycles; 80 in-lbf for 7500 cycle)
- All operators meet or exceed AAMA 907, "Corrosion Resistant Coatings on Carbon Steel" to a minimum of 300 hours per ASTM B117
- CRS version features 1040-1095 cold rolled steel arms that are zinc plated and polyester powder coated to provide up to 750 hours corrosion resistance per ASTM B117
- Operators are production tested and exceed AAMA 101 DP 100 water penetration requirements
- SS version features 301 series stainless steel passivated arms, which provide over 3,000 hours corrosion resistance per ASTM B117

HG05 Hinges:

- All hinges are certified to AAMA 904 "Multibar Hinges in Window Applications" and listed on the Verified Components List. Specimens were tested to 8,000 cycles with specified weights, and sash width rating:
 - 10" Egress C-C- 88 Lbs; 30" Wide
 - 10" Washability C-C-108 Lbs; 36" Wide
 - 13" Washability C-C-125 Lbs; 42" Wide
 - **Roto 2 bar hinges are the only 2 bar hinges that are listed on the VCL**
- All hinges meet or exceed AAMA 907, "Corrosion Resistant Coatings on Carbon Steel" to a minimum of 300 hours per ASTM B117
- All hinge tracks feature a full 304 stainless steel material, 1mm (.040") thick, which provide over 3,000 hours corrosion resistance per ASTM B117
- SS arms feature 304 stainless steel rolled wire stock fully passivated, which provide over 3,000 hours corrosion resistance per ASTM B117
- CRS arms feature 1018 cold rolled wire stock that is zinc plated and polyester powder coated to provide up to 750 hours corrosion resistance per ASTM B117

LB06/LB08 lock bars:

- Each lock point is capable of handling up to 325 lbs of force while maintaining operability and up to 500 Lbs to failure.
- SS bars feature 304 stainless steel rolled wire stock which provide over 3,000 hours corrosion resistance per ASTM B117
- CRS bars feature a polyester powder coat to provide up to 200 hours corrosion resistance per ASTM B117