FFI Stainless Steel Lift Slide

Corrosion Resistance

...leading the industry.

Salt-spray test results show that the FFI Stainless Steel Lift Slide has superior corrosion resistance to the competitors’ lift slides.

FFI Lift Slide enjoys all types of weather!

Salt-spray testing is performed to ASTM B-117 standards for 3,000 hours.

- Only FFI’s Stainless Steel Lift Slide has a 15 Year Warranty against corrosion.
- FFI’s Lift Slide is available in 2 grades of Stainless Steel with superior corrosion resistance.
Lift Slide Corrosion Report

1. Test Requested By: FUNCTIONAL FENESTRATION, INC.
2. Test Method: 5% Salt Spray for 3000 Hours
3. Test Standard: ASTM B-117
4. Test Agency: Korea Testing & Research Institute, By: D.H. Choi
6. Product Name: LS Roller, Drive Gear (G-U, AGB, FFI. 1 Set / Each Company)
7. Results:

<table>
<thead>
<tr>
<th>Item</th>
<th>Company</th>
<th>G-U</th>
<th>AGB</th>
<th>FFI (304)</th>
<th>FFI (439/430 *)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CORNER DRIVE CARRIAGE</td>
<td>Rust Condition</td>
<td>Whole carriage corroded</td>
<td>Whole carriage corroded</td>
<td>Minor surface corrosion</td>
<td>Some surface corrosion</td>
</tr>
<tr>
<td>Operating Condition</td>
<td>Cannot operate</td>
<td>Cannot operate</td>
<td>Good</td>
<td>Good</td>
<td></td>
</tr>
<tr>
<td>DRIVE GEAR LOCK</td>
<td>Rust Condition</td>
<td>Whole gear corroded</td>
<td>Whole gear corroded</td>
<td>Minor surface corrosion</td>
<td>Some surface corrosion</td>
</tr>
<tr>
<td>Operating Condition</td>
<td>Cannot operate</td>
<td>Cannot operate</td>
<td>Good</td>
<td>Good</td>
<td></td>
</tr>
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8. Conclusions:

1) FFI Product
   Small amounts of corrosion, however general condition of product is good. Corrosion is not causing problems to operation and function.

2) G-U, AGB Product
   Whole product was contaminated by corrosion and rust. Corrosion caused critical problems for function; product was impossible to operate.

* 430 and 439 are very similar
### Manufacturer: G-U

**Item: CORNER DRIVE**

1) **BODY**: Plating was corroded, there is serious white rust.
2) **BAR**: Plating was corroded, there is rust.
3) **BEARING**: Corrosion
4) **OPERATION**: cannot roll because corroded plate is stuck between roller and housing

**Item: DRIVE GEAR**

1) **GEARBOX**: Plating was corroded, there is serious rust.
2) **AL SASH**: Severe corrosion
3) **OPERATION**: Impossible

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### Manufacturer: AGB

**Item: CORNER DRIVE**

1) **BODY**: Plating was corroded, there is serious white rust.
2) **BAR**: Plating was corroded, there is rust.
3) **BEARING**: Corrosion
4) **OPERATION**: cannot roll because corroded plate is stuck between roller and housing

**Item: DRIVE GEAR**

1) **GEARBOX**: Plating was corroded, there is serious rust.
2) **AL SASH**: Severe corrosion
3) **OPERATION**: Impossible
<table>
<thead>
<tr>
<th>Manufacturer: FFI (3G), Material: Stainless Steel 304</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Item</strong>: CORNER DRIVE</td>
</tr>
<tr>
<td>1) <strong>BODY</strong>: Minute corrosion</td>
</tr>
<tr>
<td>2) <strong>BAR</strong>: No corrosion</td>
</tr>
<tr>
<td>3) <strong>BEARING</strong>: Minute corrosion</td>
</tr>
<tr>
<td>4) <strong>OPERATION</strong>: No problem</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Manufacturer: FFI (3G), Material: Stainless Steel 439 (430)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Item</strong>: CORNER DRIVE</td>
</tr>
<tr>
<td>1) <strong>BODY</strong>: Some corrosion</td>
</tr>
<tr>
<td>2) <strong>BAR</strong>: Minute corrosion</td>
</tr>
<tr>
<td>3) <strong>BEARING</strong>: Some corrosion</td>
</tr>
<tr>
<td>4) <strong>OPERATION</strong>: No problem</td>
</tr>
</tbody>
</table>

| **Item**: DRIVE GEAR                                        |
| 1) **GEARBOX**: Minute corrosion                            |
| 2) **AL SASH**: No corrosion                                |
| 3) **OPERATION**: No problem                                |

15-years FFI Warranty for 304 Stainless Steel System against defects and corrosion failure.

15-years FFI Warranty for 430 Stainless Steel System against defects and corrosion failure.

Within 5 miles of seacoast, warranted 2 years for corrosion failure.
Lift Slide Salt Spray Test Report
For 3000 Hours

Aug.04.2008

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