

# XRS Rail for Flush Mount

## SPAN CHART & ENGINEERING GUIDE

### XRS Maximum Spans (feet)

| Exposure   | Wind Speed (mph) | 0 psf Snow |        |        | 10 psf Snow |        |        | 20 psf Snow |        |        | 30 psf Snow |        |        | 40 psf Snow |        |        |
|------------|------------------|------------|--------|--------|-------------|--------|--------|-------------|--------|--------|-------------|--------|--------|-------------|--------|--------|
|            |                  | Zone 1     | Zone 2 | Zone 3 | Zone 1      | Zone 2 | Zone 3 | Zone 1      | Zone 2 | Zone 3 | Zone 1      | Zone 2 | Zone 3 | Zone 1      | Zone 2 | Zone 3 |
| Category B | 90 mph           | 13.5       | 13.5   | 10.5   | 12.5        | 12.5   | 10.5   | 10.5        | 10.5   | 10.5   | 10.0        | 10.0   | 10.0   | 9.0         | 9.0    | 9.0    |
|            | 100 mph          | 13.5       | 12.0   | 9.5    | 12.5        | 12.0   | 9.5    | 10.5        | 10.5   | 9.5    | 10.0        | 10.0   | 9.5    | 9.0         | 9.0    | 9.0    |
|            | 110 mph          | 13.5       | 11.5   | 9.0    | 12.5        | 11.5   | 9.0    | 10.5        | 10.5   | 9.0    | 10.0        | 10.0   | 9.0    | 9.0         | 9.0    | 9.0    |
|            | 120 mph          | 13.5       | 10.5   | 8.5    | 12.5        | 10.5   | 8.5    | 10.5        | 10.5   | 8.5    | 10.0        | 10.0   | 8.5    | 9.0         | 9.0    | 8.5    |
|            | 130 mph          | 13.5       | 9.5    | 7.5    | 12.5        | 9.5    | 7.5    | 10.5        | 9.5    | 7.5    | 10.0        | 9.5    | 7.5    | 9.0         | 9.0    | 7.5    |
|            | 140 mph          | 12.5       | 9.0    | 7.0    | 12.5        | 9.0    | 7.0    | 10.5        | 9.0    | 7.0    | 10.0        | 9.0    | 7.0    | 9.0         | 9.0    | 7.0    |
|            | 150 mph          | 11.5       | 8.5    | 6.5    | 11.5        | 8.5    | 6.5    | 9.5         | 9.5    | 9.5    | 10.0        | 8.5    | 6.5    | 9.0         | 8.5    | 6.5    |
| Category C | 90 mph           | 13.5       | 11.0   | 8.5    | 12.5        | 11.0   | 8.5    | 10.5        | 10.5   | 10.5   | 10.0        | 10.0   | 8.5    | 9.0         | 9.0    | 8.5    |
|            | 100 mph          | 13.5       | 9.5    | 8.0    | 12.5        | 9.5    | 8.0    | 10.5        | 9.5    | 8.0    | 10.0        | 9.5    | 8.0    | 9.0         | 9.0    | 8.0    |
|            | 110 mph          | 13.0       | 9.5    | 7.5    | 12.5        | 9.5    | 7.5    | 10.5        | 9.5    | 7.5    | 10.0        | 9.5    | 7.5    | 9.0         | 9.0    | 7.5    |
|            | 120 mph          | 12.0       | 8.5    | 7.0    | 12.0        | 8.5    | 7.0    | 10.5        | 8.5    | 7.0    | 10.0        | 8.5    | 7.0    | 9.0         | 8.5    | 7.0    |
|            | 130 mph          | 11.0       | 8.0    | 6.5    | 11.0        | 8.0    | 6.5    | 10.5        | 8.0    | 6.5    | 9.5         | 8.0    | 6.5    | 9.0         | 8.0    | 6.5    |
|            | 140 mph          | 10.0       | 7.5    | 6.0    | 10.0        | 7.5    | 6.0    | 10.0        | 7.5    | 6.0    | 9.5         | 7.5    | 6.0    | 8.5         | 7.5    | 6.0    |
|            | 150 mph          | 9.5        | 7.0    | 5.5    | 9.5         | 7.0    | 5.5    | 9.5         | 7.0    | 5.5    | 9.0         | 7.0    | 5.5    | 8.5         | 7.0    | 5.5    |

### LOAD CONDITION ASSUMPTIONS

- ◆ Flush roof mounting installations only
- ◆ Roof pitch must be 27 degrees or less
- ◆ Module length is 67.5" or less
- ◆ Building height must be less than or equal to 15 feet
- ◆ Clearance between roof and rail is at least 2 inches
- ◆ End cantilever span not to exceed 40% of the adjacent interior span
- ◆ No rail splice permitted within the middle ½ of the span

For installations that do not conform to the load condition assumptions, please contact your local distributor or refer to [www.ironridge.com](http://www.ironridge.com) for a more complete engineering analysis.

