

# XRS Rail for Tilt 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		
		10°	20°	30°	10°	20°	30°	10°	20°	30°	10°	20°	30°	10°	20°	30°
Category B	90 mph	13.0	12.0	10.5	12.0	11.0	10.5	10.5	10.0	9.5	9.5	9.5	9.0	9.0	8.5	8.0
	100 mph	12.0	11.0	9.5	11.5	10.5	9.5	10.0	9.5	9.0	9.5	9.0	8.5	8.5	8.0	8.0
	110 mph	11.5	10.5	9.5	11.0	10.5	9.5	9.5	9.0	8.5	9.0	8.5	8.0	8.5	8.0	7.5
	120 mph	11.0	9.5	8.5	10.5	9.5	8.5	9.5	9.0	8.0	9.0	8.5	8.0	8.0	8.0	7.5
	130 mph	10.0	9.0	8.0	10.0	9.0	8.0	9.0	8.5	8.0	8.5	8.0	7.5	8.0	7.5	7.0
	140 mph	9.5	8.5	7.5	9.5	8.5	7.5	8.5	8.0	7.5	8.0	7.5	7.0	7.5	7.0	7.0
	150 mph	9.0	8.0	7.0	9.0	8.0	7.0	8.0	7.5	7.0	8.0	7.5	7.0	7.5	7.0	6.5
Category C	90 mph	11.0	10.0	9.0	10.5	10.0	9.0	9.5	9.0	8.5	9.0	8.5	8.0	8.5	8.0	7.5
	100 mph	10.0	9.0	8.0	10.0	9.0	8.0	9.0	8.5	8.0	8.5	8.0	7.5	8.0	7.5	7.0
	110 mph	10.0	9.0	8.0	10.0	9.0	8.0	9.0	8.5	7.5	8.5	8.0	7.5	8.0	7.5	7.0
	120 mph	9.0	8.0	7.5	9.0	8.0	7.5	8.5	8.0	7.0	8.0	7.5	7.0	7.5	7.0	6.5
	130 mph	8.5	7.5	7.0	8.5	7.5	7.0	8.0	7.5	7.0	7.5	7.0	6.5	7.5	7.0	6.5
	140 mph	8.0	7.0	6.5	8.0	7.0	6.5	7.5	7.0	6.5	7.5	7.0	6.5	7.0	6.5	6.0
	150 mph	7.5	6.5	6.0	7.5	6.5	6.0	7.5	6.5	6.0	7.0	6.5	6.0	6.5	6.0	5.5

### LOAD CONDITION ASSUMPTIONS

- ◆ Roof pitch must be 25 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.