


RAIL SELECTION CHART V1	RAIL SELECTION TABLES FOR PCM PV RAILS	 6203 80 AVE N. PINELLAS PARK, FL 33781 727-547-6277
RDG Engineering, Inc. C.A. NO. 32850		

PCM Solar rails were designed with the installer in mind. With three unique sizes, each rail type allows flexibility in installation and position for different types of loading and applications.

Micro Rail

- Compact section
- Ideal for light loading conditions

Residential Rail

- Standard section
- Ideal for medium to heavy loading conditions

Heavy Duty Rail

- Large, high strength section
- Ideal for heavy loading conditions or large spans

Rail Selection Criteria: The following table was prepared with applicable engineering and building codes standards. Span values for comparison are based on the following criteria: ASCE 7-10 snow and wind loading, Building Risk Category II, Exposure C, Mean Roof Height of 15 ft, Roof Slope of 7-18 degrees, Portrait panel configuration, and pressure zone 1. See applicable supplemental load tables for allowable spans for each rail based on site specific conditions.

		RAIL SPAN (FEET)				
GROUND SNOW LOAD (PSF)	WIND SPEED (MPH) [ALLOW (ULT)]	3'	4'-6"	6'	8'	10'
		0	80 (103)	MICRO RAIL		
100 (129)	RESIDENTIAL RAIL					
120 (154)						
140 (180)						
10-20	80 (103)				HEAVY DUTY RAIL	
	100 (129)					
	120 (154)					
	140 (180)					
30-40	80 (103)			HEAVY DUTY RAIL		
	100 (129)					
	120 (154)					
	140 (180)					
50-70	80 (103)			HEAVY DUTY RAIL		
	100 (129)					
	120 (154)					
	140 (180)					
80-100	80 (103)			HEAVY DUTY RAIL		
	100 (129)					
	120 (154)					
	140 (180)					