

**Table 27.6-2**  
**MWFRS- Part 2: Wind Loads - Roof**  
**Exposure C**

**MWFRS – Roof**  
**V = 110–120 mph**  
**h = 130–160 ft.**

V (MPH)		Load Case	110					115					120				
h (ft)	Roof Slope		1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
160	Flat < 2:12 (9.46 deg)	1	NA	NA	-39.0	-34.8	-28.5	NA	NA	-42.6	-38.0	-31.2	NA	NA	-46.4	-41.4	-33.9
		2	NA	NA	0.0	0.0	0.0	NA	NA	0.0	0.0	0.0	NA	NA	0.0	0.0	0.0
	3:12 (14.0 deg)	1	-38.3	-26.0	-39.0	-34.8	-28.5	-41.8	-30.1	-42.6	-38.0	-31.2	-45.5	-31.0	-46.4	-41.4	-33.9
		2	5.5	-7.8	0.0	0.0	0.0	6.0	-8.5	0.0	0.0	0.0	6.6	-9.2	0.0	0.0	0.0
	4:12 (18.4 deg)	1	-31.5	-25.4	-39.0	-34.8	-28.5	-34.4	-27.7	-42.6	-38.0	-31.2	-37.4	-30.2	-46.4	-41.4	-33.9
		2	10.9	-11.1	0.0	0.0	0.0	11.9	-12.2	0.0	0.0	0.0	13.0	-13.3	0.0	0.0	0.0
	5:12 (22.6 deg)	1	-25.2	-25.4	-39.0	-34.8	-28.5	-27.6	-27.7	-42.6	-38.0	-31.2	-30.0	-30.2	-46.4	-41.4	-33.9
		2	14.5	-12.1	0.0	0.0	0.0	15.8	-13.3	0.0	0.0	0.0	17.3	-14.4	0.0	0.0	0.0
	6:12 (26.6 deg)	1	-20.3	-25.4	-39.0	-34.8	-28.5	-22.2	-27.7	-42.6	-38.0	-31.2	-24.1	-30.2	-46.4	-41.4	-33.9
		2	16.0	-12.1	0.0	0.0	0.0	17.5	-13.3	0.0	0.0	0.0	19.0	-14.4	0.0	0.0	0.0
	9:12 (36.9 deg)	1	-11.7	-25.4	-39.0	-34.8	-28.5	-12.8	-27.7	-42.6	-38.0	-31.2	-14.0	-30.2	-46.4	-41.4	-33.9
		2	19.1	-12.1	0.0	0.0	0.0	20.9	-13.3	0.0	0.0	0.0	22.8	-14.4	0.0	0.0	0.0
	12:12 (45.0 deg)	1	-6.6	-25.4	-39.0	-34.8	-28.5	-7.2	-27.7	-42.6	-38.0	-31.2	-7.9	-30.2	-46.4	-41.4	-33.9
		2	19.1	-12.1	0.0	0.0	0.0	20.9	-13.3	0.0	0.0	0.0	22.8	-14.4	0.0	0.0	0.0
150	Flat < 2:12 (9.46 deg)	1	NA	NA	-38.5	-34.3	-28.1	NA	NA	-42.0	-37.5	-30.7	NA	NA	-45.8	-40.8	-33.5
		2	NA	NA	0.0	0.0	0.0	NA	NA	0.0	0.0	0.0	NA	NA	0.0	0.0	0.0
	3:12 (14.0 deg)	1	-37.7	-25.7	-38.5	-34.3	-28.1	-41.3	-29.7	-42.0	-37.5	-30.7	-44.9	-30.5	-45.8	-40.8	-33.5
		2	5.4	-7.7	0.0	0.0	0.0	6.0	-8.4	0.0	0.0	0.0	6.5	-9.1	0.0	0.0	0.0
	4:12 (18.4 deg)	1	-31.0	-25.0	-38.5	-34.3	-28.1	-33.9	-27.4	-42.0	-37.5	-30.7	-36.9	-29.8	-45.8	-40.8	-33.5
		2	10.7	-11.0	0.0	0.0	0.0	11.7	-12.0	0.0	0.0	0.0	12.8	-13.1	0.0	0.0	0.0
	5:12 (22.6 deg)	1	-24.9	-25.0	-38.5	-34.3	-28.1	-27.2	-27.4	-42.0	-37.5	-30.7	-29.6	-29.8	-45.8	-40.8	-33.5
		2	14.3	-12.0	0.0	0.0	0.0	15.6	-13.1	0.0	0.0	0.0	17.0	-14.3	0.0	0.0	0.0
	6:12 (26.6 deg)	1	-20.0	-25.0	-38.5	-34.3	-28.1	-21.9	-27.4	-42.0	-37.5	-30.7	-23.8	-29.8	-45.8	-40.8	-33.5
		2	15.8	-12.0	0.0	0.0	0.0	17.3	-13.1	0.0	0.0	0.0	18.8	-14.3	0.0	0.0	0.0
	9:12 (36.9 deg)	1	-11.6	-25.0	-38.5	-34.3	-28.1	-12.7	-27.4	-42.0	-37.5	-30.7	-13.8	-29.8	-45.8	-40.8	-33.5
		2	18.9	-12.0	0.0	0.0	0.0	20.6	-13.1	0.0	0.0	0.0	22.5	-14.3	0.0	0.0	0.0
	12:12 (45.0 deg)	1	-6.5	-25.0	-38.5	-34.3	-28.1	-7.1	-27.4	-42.0	-37.5	-30.7	-7.8	-29.8	-45.8	-40.8	-33.5
		2	18.9	-12.0	0.0	0.0	0.0	20.6	-13.1	0.0	0.0	0.0	22.5	-14.3	0.0	0.0	0.0
140	Flat < 2:12 (9.46 deg)	1	NA	NA	-37.9	-33.8	-27.7	NA	NA	-41.4	-36.9	-30.3	NA	NA	-45.1	-40.2	-33.0
		2	NA	NA	0.0	0.0	0.0	NA	NA	0.0	0.0	0.0	NA	NA	0.0	0.0	0.0
	3:12 (14.0 deg)	1	-37.2	-25.3	-37.9	-33.8	-27.7	-40.7	-29.3	-41.4	-36.9	-30.3	-44.3	-30.1	-45.1	-40.2	-33.0
		2	5.4	-7.5	0.0	0.0	0.0	5.9	-8.2	0.0	0.0	0.0	6.4	-9.0	0.0	0.0	0.0
	4:12 (18.4 deg)	1	-30.6	-24.7	-37.9	-33.8	-27.7	-33.4	-27.0	-41.4	-36.9	-30.3	-36.4	-29.4	-45.1	-40.2	-33.0
		2	10.6	-10.8	0.0	0.0	0.0	11.6	-11.8	0.0	0.0	0.0	12.6	-12.9	0.0	0.0	0.0
	5:12 (22.6 deg)	1	-24.5	-24.7	-37.9	-33.8	-27.7	-26.8	-27.0	-41.4	-36.9	-30.3	-29.2	-29.4	-45.1	-40.2	-33.0
		2	14.1	-11.8	0.0	0.0	0.0	15.4	-12.9	0.0	0.0	0.0	16.8	-14.0	0.0	0.0	0.0
	6:12 (26.6 deg)	1	-19.7	-24.7	-37.9	-33.8	-27.7	-21.5	-27.0	-41.4	-36.9	-30.3	-23.5	-29.4	-45.1	-40.2	-33.0
		2	15.6	-11.8	0.0	0.0	0.0	17.0	-12.9	0.0	0.0	0.0	18.5	-14.0	0.0	0.0	0.0
	9:12 (36.9 deg)	1	-11.4	-24.7	-37.9	-33.8	-27.7	-12.5	-27.0	-41.4	-36.9	-30.3	-13.6	-29.4	-45.1	-40.2	-33.0
		2	18.6	-11.8	0.0	0.0	0.0	20.3	-12.9	0.0	0.0	0.0	22.1	-14.0	0.0	0.0	0.0
	12:12 (45.0 deg)	1	-6.4	-24.7	-37.9	-33.8	-27.7	-7.0	-27.0	-41.4	-36.9	-30.3	-7.7	-29.4	-45.1	-40.2	-33.0
		2	18.6	-11.8	0.0	0.0	0.0	20.3	-12.9	0.0	0.0	0.0	22.1	-14.0	0.0	0.0	0.0
130	Flat < 2:12 (9.46 deg)	1	NA	NA	-37.3	-33.3	-27.3	NA	NA	-40.8	-36.4	-29.8	NA	NA	-44.4	-39.6	-32.5
		2	NA	NA	0.0	0.0	0.0	NA	NA	0.0	0.0	0.0	NA	NA	0.0	0.0	0.0
	3:12 (14.0 deg)	1	-36.6	-24.9	-37.3	-33.3	-27.3	-40.0	-28.8	-40.8	-36.4	-29.8	-43.6	-29.6	-44.4	-39.6	-32.5
		2	5.3	-7.4	0.0	0.0	0.0	5.8	-8.1	0.0	0.0	0.0	6.3	-8.8	0.0	0.0	0.0
	4:12 (18.4 deg)	1	-30.1	-24.3	-37.3	-33.3	-27.3	-32.9	-26.6	-40.8	-36.4	-29.8	-35.8	-28.9	-44.4	-39.6	-32.5
		2	10.4	-10.7	0.0	0.0	0.0	11.4	-11.7	0.0	0.0	0.0	12.4	-12.7	0.0	0.0	0.0
	5:12 (22.6 deg)	1	-24.2	-24.3	-37.3	-33.3	-27.3	-26.4	-26.6	-40.8	-36.4	-29.8	-28.7	-28.9	-44.4	-39.6	-32.5
		2	13.9	-11.6	0.0	0.0	0.0	15.2	-12.7	0.0	0.0	0.0	16.5	-13.8	0.0	0.0	0.0
	6:12 (26.6 deg)	1	-19.4	-24.3	-37.3	-33.3	-27.3	-21.2	-26.6	-40.8	-36.4	-29.8	-23.1	-28.9	-44.4	-39.6	-32.5
		2	15.3	-11.6	0.0	0.0	0.0	16.7	-12.7	0.0	0.0	0.0	18.2	-13.8	0.0	0.0	0.0
	9:12 (36.9 deg)	1	-11.2	-24.3	-37.3	-33.3	-27.3	-12.3	-26.6	-40.8	-36.4	-29.8	-13.4	-28.9	-44.4	-39.6	-32.5
		2	18.3	-11.6	0.0	0.0	0.0	20.0	-12.7	0.0	0.0	0.0	21.8	-13.8	0.0	0.0	0.0
	12:12 (45.0 deg)	1	-6.3	-24.3	-37.3	-33.3	-27.3	-6.9	-26.6	-40.8	-36.4	-29.8	-7.5	-28.9	-44.4	-39.6	-32.5
		2	18.3	-11.6	0.0	0.0	0.0	20.0	-12.7	0.0	0.0	0.0	21.8	-13.8	0.0	0.0	0.0