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

MWFRS – Roof V = 130–150 mph h = 90–120 ft.

	V (MPH)		130					140					150				
	, ,	Load	Zone				Zone					Zone					
h (ft)	Roof Slope	Case	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
	Flat < 2:12 (9.46 deg)	1	NA	NA	-51.3	-45.7	-37.5	NA	NA	-59.5	-53.0	-43.5	NA	NA	-36.7	-32.7	-26.8
		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
120	3:12 (14.0 deg)	1	-50.3	-34.2	-51.3	-45.7	-37.5	-58.3	-39.7	-59.5	-53.0	-43.5	-36.0	-24.5	-36.7	-32.7	-26.8
		2	7.3	-10.2	0.0	0.0	0.0	8.4	-11.8	0.0	0.0	0.0	5.2	-7.3	0.0	0.0	0.0
	4:12 (18.4 deg)	1	-41.4	-33.4	-51.3	-45.7	-37.5	-48.0	-38.7	-59.5	-53.0	-43.5	-29.6	-23.9	-36.7	-32.7	-26.8
		2	14.3	-14.7	0.0	0.0	0.0	16.6	-17.0	0.0	0.0	0.0	10.2	-10.5	0.0	0.0	0.0
	5:12 (22.6 deg)	1	-33.2	-33.4	-51.3	-45.7	-37.5	-38.5	-38.7	-59.5	-53.0	-43.5	-23.8	-23.9	-36.7	-32.7	-26.8
		2	19.1	-16.0	0.0	0.0	0.0	22.1	-18.5	0.0	0.0	0.0	13.6	-11.4	0.0	0.0	0.0
	6:12 (26.6 deg)	1	-26.6	-33.4	-51.3	-45.7	-37.5	-30.9	-38.7	-59.5	-53.0	-43.5	-19.1	-23.9	-36.7	-32.7	-26.8
		2	21.0	-16.0	0.0	0.0	0.0	24.4	-18.5	0.0	0.0	0.0	15.1	-11.4	0.0	0.0	0.0
	9:12 (36.9 deg)	1	-15.4	-33.4	-51.3	-45.7	-37.5	-17.9	-38.7	-59.5	-53.0	-43.5	-11.0	-23.9	-36.7	-32.7	-26.8
	40:40 (45.0 des)	2	25.1	-16.0	0.0	0.0	0.0	29.2	-18.5	0.0	0.0	0.0	18.0	-11.4	0.0	0.0	0.0
	12:12 (45.0 deg)	1	-8.7	-33.4	-51.3	-45.7	-37.5	-10.1	-38.7	-59.5	-53.0	-43.5	-6.2	-23.9	-36.7	-32.7	-26.8
	Flat 4 2:42 (0.40 da a)	2	25.1	-16.0	0.0	0.0	0.0	29.2	-18.5	0.0	0.0	0.0	18.0	-11.4	0.0	0.0	0.0
	Flat < 2:12 (9.46 deg)	1	NA	NA	-50.3	-44.9	-36.8	NA	NA	-58.4	-52.0	-42.7	NA	NA	-36.0	-32.1	-26.3
	2:42 (44.0 do m)	1	-49.4	-33.6	-50.3	-44.9	0.0	NA F7.2	-38.9	0.0 -58.4	-52.0	0.0 -42.7	-35.4	-24.0	-36.0	-32.1	-26.3
	3:12 (14.0 deg)	2	7.1	-33.6	-50.3	0.0	-36.8 0.0	-57.3 8.3	-38.9	-58.4	-52.0	0.0	-35.4 5.1	-24.0 -7.2	0.0	0.0	0.0
	4:12 (19.4 dc m)	1	-40.6	-32.8	-50.3	-44.9	-36.8	-47.1	-38.0	-58.4	-52.0	-42.7	-29.1	-7.2	-36.0	-32.1	-26.3
	4:12 (18.4 deg)	2	14.1	-32.8	-50.3	0.0	0.0	16.3	-38.0	-58.4	-52.0	0.0	10.1	-23.5	0.0	0.0	0.0
110	5:12 (22.6 deg)	1	-32.6	-32.8	-50.3	-44.9	-36.8	-37.8	-38.0	-58.4	-52.0	-42.7	-23.3	-23.5	-36.0	-32.1	-26.3
110	5:12 (22.6 deg)	2	18.7	-32.0	0.0	0.0	0.0	21.7	-18.2	0.0	0.0	0.0	13.4	-11.2	0.0	0.0	
	6:12 (26.6 deg)	1	-26.2	-32.8	-50.3	-44.9	-36.8	-30.3	-38.0	-58.4	-52.0	-42.7	-18.7	-23.5	-36.0	-32.1	-26.3
	6:12 (26.6 deg)	2	20.7	-32.0	0.0	0.0	0.0	24.0	-18.2	0.0	0.0	0.0	14.8	-11.2	0.0	0.0	0.0
	9:12 (36.9 deg)	1	-15.1	-32.8	-50.3	-44.9	-36.8	-17.6	-38.0	-58.4	-52.0	-42.7	-10.8	-23.5	-36.0	-32.1	-26.3
	3.12 (30.3 deg)	2	24.7	-15.7	0.0	0.0	0.0	28.6	-18.2	0.0	0.0	0.0	17.7	-11.2	0.0	0.0	0.0
	12:12 (45.0 deg)	1	-8.5	-32.8	-50.3	-44.9	-36.8	-9.9	-38.0	-58.4	-52.0	-42.7	-6.1	-23.5	-36.0	-32.1	-26.3
	12.12 (45.0 deg)	2	24.7	-15.7	0.0	0.0	0.0	28.6	-18.2	0.0	0.0	0.0	17.7	-11.2	0.0	0.0	0.0
	Flat < 2:12 (9.46 deg)	1	NA	NA	-49.3	-44.0	-36.1	NA	NA	-57.2	-51.0	-41.8	NA	NA	-35.3	-31.5	-25.8
	1 lat 4 2.12 (5.40 deg)	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
90	3:12 (14.0 deg)	1	-48.4	-32.9	-49.3	-44.0	-36.1	-56.1	-38.2	-57.2	-51.0	-41.8	-34.7	-23.6	-35.3	-31.5	-25.8
	(1.110 4.09)	2	7.0	-9.8	0.0	0.0	0.0	8.1	-11.4	0.0	0.0	0.0	5.0	-7.0	0.0	0.0	0.0
	4:12 (18.4 deg)	1	-39.8	-32.1	-49.3	-44.0	-36.1	-46.2	-37.2	-57.2	-51.0	-41.8	-28.5	-23.0	-35.3	-31.5	-25.8
	(1011 409)	2	13.8	-14.1	0.0	0.0	0.0	16.0	-16.4	0.0	0.0	0.0	9.9	-10.1	0.0	0.0	0.0
	5:12 (22.6 deg)	1	-31.9	-32.1	-49.3	-44.0	-36.1	-37.0	-37.2	-57.2	-51.0	-41.8	-22.9	-23.0	-35.3	-31.5	-25.8
	(, , , , , ,	2	18.3	-15.4	0.0	0.0	0.0	21.3	-17.8	0.0	0.0	0.0	13.1	-11.0	0.0	0.0	0.0
	6:12 (26.6 deg)	1	-25.6	-32.1	-49.3	-44.0	-36.1	-29.7	-37.2	-57.2	-51.0	-41.8	-18.4	-23.0	-35.3	-31.5	-25.8
		2	20.2	-15.4	0.0	0.0	0.0	23.5	-17.8	0.0	0.0	0.0	14.5	-11.0	0.0	0.0	0.0
	9:12 (36.9 deg)	1	-14.8	-32.1	-49.3	-44.0	-36.1	-17.2	-37.2	-57.2	-51.0	-41.8	-10.6	-23.0	-35.3	-31.5	-25.8
		2	24.2	-15.4	0.0	0.0	0.0	28.1	-17.8	0.0	0.0	0.0	17.3	-11.0	0.0	0.0	0.0
	12:12 (45.0 deg)	1	-8.4	-32.1	-49.3	-44.0	-36.1	-9.7	-37.2	-57.2	-51.0	-41.8	-6.0	-23.0	-35.3	-31.5	-25.8
		2	24.2	-15.4	0.0	0.0	0.0	28.1	-17.8	0.0	0.0	0.0	17.3	-11.0	0.0	0.0	0.0
	Flat < 2:12 (9.46 deg)	1	NA	NA	-48.3	-43.0	-35.3	NA	NA	-56.0	-49.9	-40.9	NA	NA	-34.5	-30.8	-25.3
		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	-47.3	-32.2	-48.3	-43.0	-35.3	-54.9	-37.3	-56.0	-49.9	-40.9	-33.9	-23.0	-34.5	-30.8	-25.3
		2	6.8	-9.6	0.0	0.0	0.0	7.9	-11.1	0.0	0.0	0.0	4.9	-6.9	0.0	0.0	0.0
	4:12 (18.4 deg)	1	-38.9	-31.4	-48.3	-43.0	-35.3	-45.1	-36.4	-56.0	-49.9	-40.9	-27.9	-22.5	-34.5	-30.8	-25.3
		2	13.5	-13.8	0.0	0.0	0.0	15.6	-16.0	0.0	0.0	0.0	9.6	-9.9	0.0	0.0	0.0
	5:12 (22.6 deg)	1	-31.2	-31.4	-48.3	-43.0	-35.3	-36.2	-36.4	-56.0	-49.9	-40.9	-22.4	-22.5	-34.5	-30.8	-25.3
		2	17.9	-15.0	0.0	0.0	0.0	20.8	-17.4	0.0	0.0	0.0	12.8	-10.8	0.0	0.0	0.0
	6:12 (26.6 deg)	1	-25.1	-31.4	-48.3	-43.0	-35.3	-29.1	-36.4	-56.0	-49.9	-40.9	-18.0	-22.5	-34.5	-30.8	-25.3
		2	19.8	-15.0	0.0	0.0	0.0	23.0	-17.4	0.0	0.0	0.0	14.2	-10.8	0.0	0.0	0.0
	9:12 (36.9 deg)	1	-14.5	-31.4	-48.3	-43.0	-35.3	-16.8	-36.4	-56.0	-49.9	-40.9	-10.4	-22.5	-34.5	-30.8	-25.3
		2	23.7	-15.0	0.0	0.0	0.0	27.5	-17.4	0.0	0.0	0.0	16.9	-10.8	0.0	0.0	0.0
	12:12 (45.0 deg)	1	-8.2	-31.4	-48.3	-43.0	-35.3	-9.5	-36.4	-56.0	-49.9	-40.9	-5.9	-22.5	-34.5	-30.8	-25.3
		2	23.7	-15.0	0.0	0.0	0.0	27.5	-17.4	0.0	0.0	0.0	16.9	-10.8	0.0	0.0	0.0