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

MWFRS – Roof V = 130–150 mph h = 130–160 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	-54.5	-48.6	-39.8	NA	NA	-63.2	-56.3	-46.2	NA	NA	-72.5	-64.6	-53.0
		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	-53.4	-36.3	-54.5	-48.6	-39.8	-62.0	-42.1	-63.2	-56.3	-46.2	-71.1	-48.4	-72.5	-64.6	-53.0
		2	7.7	-10.8	0.0	0.0	0.0	8.9	-12.6	0.0	0.0	0.0	10.3	-14.4	0.0	0.0	0.0
	4:12 (18.4 deg)	1	-43.9	-35.5	-54.5	-48.6	-39.8	-51.0	-41.1	-63.2	-56.3	-46.2	-58.5	-47.2	-72.5	-64.6	-53.0
160		2	15.2	-15.6	0.0	0.0	0.0	17.6	-18.1	0.0	0.0	0.0	20.2	-20.7	0.0	0.0	0.0
	5:12 (22.6 deg)	1	-35.2	-35.5	-54.5	-48.6	-39.8	-40.9	-41.1	-63.2	-56.3	-46.2	-46.9	-47.2	-72.5	-64.6	-53.0
		2	20.2	-17.0	0.0	0.0	0.0	23.5	-19.7	0.0	0.0	0.0	27.0	-22.6	0.0	0.0	0.0
	6:12 (26.6 deg)	1	-28.3	-35.5	-54.5	-48.6	-39.8	-32.8	-41.1	-63.2	-56.3	-46.2	-37.7	-47.2	-72.5	-64.6	-53.0
	0.40 (00.0.1.)	2	22.4	-17.0	0.0	0.0	0.0	25.9	-19.7	0.0	0.0	0.0	29.8	-22.6	0.0	0.0	0.0
	9:12 (36.9 deg)	1	-16.4	-35.5	-54.5	-48.6	-39.8	-19.0	-41.1	-63.2	-56.3	-46.2	-21.8	-47.2	-72.5	-64.6	-53.0
	40.40 (45.0 des)	2	26.7	-17.0	0.0	0.0	0.0	31.0	-19.7	0.0	0.0	0.0	11.4	-22.6	0.0	0.0	0.0
	12:12 (45.0 deg)	1	-9.2	-35.5	-54.5 0.0	-48.6 0.0	-39.8 0.0	-10.7	-41.1	-63.2 0.0	-56.3 0.0	-46.2	-12.3	-47.2 -22.6	-72.5 0.0	-64.6	-53.0
	Flat 4 2:42 (0.40 da a)	2	26.7	-17.0 NA				31.0	-19.7			0.0	35.6			0.0	0.0
	Flat < 2:12 (9.46 deg)	1	NA NA	NA NA	-53.7	-47.9 0.0	-39.3	NA NA	NA NA	-62.3 0.0	-55.6	-45.6 0.0	NA NA	NA NA	-71.5 0.0	-63.8	-52.3
150	2:12 (14 0 dos)	1	-52.7	-35.8	0.0 -53.7	-47.9	-39.3	-61.1	-41.6	-62.3	0.0 -55.6	0.0 -45.6	-70.2	-47.7	-71.5	-63.8	-52.3
	3:12 (14.0 deg)	2	7.6	-35.8	0.0	0.0	0.0	8.8	-12.4	0.0	0.0	0.0	10.1	-47.7	0.0	0.0	0.0
	4:12 (18.4 deg)	1	-43.3	-35.0	-53.7	-47.9	-39.3	-50.3	-12.4	-62.3	-55.6	-45.6	-57.7	-46.6	-71.5	-63.8	-52.3
	+.12 (10.4 ueg)	2	15.0	-15.4	0.0	0.0	0.0	17.4	-17.8	0.0	0.0	0.0	20.0	-20.4	0.0	0.0	0.0
	5:12 (22.6 deg)	1	-34.8	-35.0	-53.7	-47.9	-39.3	-40.3	-40.6	-62.3	-55.6	-45.6	-46.3	-46.6	-71.5	-63.8	-52.3
	5.12 (22.0 deg)	2	20.0	-16.7	0.0	0.0	0.0	23.2	-19.4	0.0	0.0	0.0	26.6	-22.3	0.0	0.0	0.0
	6:12 (26.6 deg)	1	-27.9	-35.0	-53.7	-47.9	-39.3	-32.4	-40.6	-62.3	-55.6	-45.6	-37.2	-46.6	-71.5	-63.8	-52.3
	0.12 (20.0 dcg)	2	22.1	-16.7	0.0	0.0	0.0	25.6	-19.4	0.0	0.0	0.0	29.4	-22.3	0.0	0.0	0.0
	9:12 (36.9 deg)	1	-16.2	-35.0	-53.7	-47.9	-39.3	-18.8	-40.6	-62.3	-55.6	-45.6	-21.5	-46.6	-71.5	-63.8	-52.3
	0.12 (00.0 009)	2	26.4	-16.7	0.0	0.0	0.0	30.6	-19.4	0.0	0.0	0.0	11.3	-22.3	0.0	0.0	0.0
	12:12 (45.0 deg)	1	-9.1	-35.0	-53.7	-47.9	-39.3	-10.6	-40.6	-62.3	-55.6	-45.6	-12.1	-46.6	-71.5	-63.8	-52.3
	12.12 (10.0 0.09)	2	26.4	-16.7	0.0	0.0	0.0	30.6	-19.4	0.0	0.0	0.0	35.1	-22.3	0.0	0.0	0.0
140	Flat < 2:12 (9.46 deg)	1	NA	NA	-53.0	-47.2	-38.7	NA	NA	-61.4	-54.8	-44.9	NA	NA	-70.5	-62.9	-51.5
	(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	-52.0	-35.3	-53.0	-47.2	-38.7	-60.3	-41.0	-61.4	-54.8	-44.9	-69.2	-47.0	-70.5	-62.9	-51.5
	, ,	2	7.5	-10.5	0.0	0.0	0.0	8.7	-12.2	0.0	0.0	0.0	10.0	-14.0	0.0	0.0	0.0
	4:12 (18.4 deg)	1	-42.7	-34.5	-53.0	-47.2	-38.7	-49.5	-40.0	-61.4	-54.8	-44.9	-56.9	-45.9	-70.5	-62.9	-51.5
		2	14.8	-15.1	0.0	0.0	0.0	17.2	-17.6	0.0	0.0	0.0	19.7	-20.2	0.0	0.0	0.0
	5:12 (22.6 deg)	1	-34.3	-34.5	-53.0	-47.2	-38.7	-39.7	-40.0	-61.4	-54.8	-44.9	-45.6	-45.9	-70.5	-62.9	-51.5
		2	19.7	-16.5	0.0	0.0	0.0	22.8	-19.1	0.0	0.0	0.0	26.2	-21.9	0.0	0.0	0.0
	6:12 (26.6 deg)	1	-27.5	-34.5	-53.0	-47.2	-38.7	-31.9	-40.0	-61.4	-54.8	-44.9	-36.6	-45.9	-70.5	-62.9	-51.5
		2	21.7	-16.5	0.0	0.0	0.0	25.2	-19.1	0.0	0.0	0.0	28.9	-21.9	0.0	0.0	0.0
	9:12 (36.9 deg)	1	-15.9	-34.5	-53.0	-47.2	-38.7	-18.5	-40.0	-61.4	-54.8	-44.9	-21.2	-45.9	-70.5	-62.9	-51.5
		2	26.0	-16.5	0.0	0.0	0.0	30.1	-19.1	0.0	0.0	0.0	11.1	-21.9	0.0	0.0	0.0
	12:12 (45.0 deg)	1	-9.0	-34.5	-53.0	-47.2	-38.7	-10.4	-40.0	-61.4	-54.8	-44.9	-12.0	-45.9	-70.5	-62.9	-51.5
	El 1 : 0 10 (0 10 :)	2	26.0	-16.5	0.0	0.0	0.0	30.1	-19.1	0.0	0.0	0.0	34.6	-21.9	0.0	0.0	0.0
130	Flat < 2:12 (9.46 deg)	1	NA	NA	-52.1	-46.5	-38.1	NA	NA	-60.5	-53.9	-44.2	NA	NA	-69.4	-61.9	-50.7
	2.42 (4.4.0 1)	2	NA F1.2	NA 24.9	0.0	0.0	0.0	NA FO 2	NA 40.2	0.0	0.0	0.0	NA 60.1	NA 46.2	0.0	0.0	0.0
	3:12 (14.0 deg)	1	-51.2	-34.8	-52.1	-46.5	-38.1	-59.3	-40.3	-60.5	-53.9	-44.2	-68.1	-46.3	-69.4	-61.9	-50.7
	4.40 (40.4)	1	7.4 -42.1	-10.4 -33.9	0.0 -52.1	0.0 -46.5	-38.1	8.6 -48.8	-12.0 -39.4	-60.5	-53.9	0.0 -44.2	9.8 -56.0	-13.8 -45.2	-69.4	-61.9	-50.7
	4:12 (18.4 deg)	2	14.6	-14.9	0.0	0.0	0.0	16.9	-17.3	0.0	0.0	0.0	19.4	-45.2	0.0	0.0	0.0
	5:12 (22.6 deg)	1	-33.7	-33.9	-52.1	-46.5	-38.1	-39.1	-39.4	-60.5	-53.9	-44.2	-44.9	-45.2	-69.4	-61.9	-50.7
	3.12 (22.0 ueg)	2	19.4	-16.2	0.0	0.0	0.0	22.5	-18.8	0.0	0.0	0.0	25.8	-45.2	0.0	0.0	0.0
	6:12 (26.6 deg)	1	-27.1	-33.9	-52.1	-46.5	-38.1	-31.4	-39.4	-60.5	-53.9	-44.2	-36.1	-45.2	-69.4	-61.9	-50.
	0.12 (20.0 deg)	2	21.4	-16.2	0.0	0.0	0.0	24.8	-18.8	0.0	0.0	0.0	28.5	-21.6	0.0	0.0	0.0
	9:12 (36.9 deg)	1	-15.7	-33.9	-52.1	-46.5	-38.1	-18.2	-39.4	-60.5	-53.9	-44.2	-20.9	-45.2	-69.4	-61.9	-50.
	3.12 (30.3 deg)	2	25.6	-16.2	0.0	0.0	0.0	29.7	-18.8	0.0	0.0	0.0	10.9	-21.6	0.0	0.0	0.0
	12:12 (45.0 deg)	1	-8.9	-33.9	-52.1	-46.5	-38.1	-10.3	-39.4	-60.5	-53.9	-44.2	-11.8	-45.2	-69.4	-61.9	-50.
	12.12 (40.0 deg)	2	15.0	-9.5	0.0	0.0	0.0	16.4	-10.4	0.0	0.0	0.0	34.1	-21.6	0.0	0.0	0.0
		4	10.0	-5.0	U.U	U.U	U.U	10.4	-10.4	U.U	U.U	U.U	J4. I	-21.0	U.U	U.U	1