

Wall and Roof End Zone Widths 'a' and '2*a' (Fig. 6-10):

MWFRS Wind Load for Transverse Direction				MWFRS Wind Load for Longitudinal Direction			
Surface	GCpf	p = Net Pressures (psf)		Surface	*GCpf	p = Net Pressures (psf)	
		(w/ +GCpi)	(w/ -GCpi)			(w/ +GCpi)	(w/ -GCpi)
Zone 1	0.52	6.77	14.01	Zone 1	0.40	4.43	11.67
Zone 2	-0.69	-17.51	-10.26	Zone 2	-0.69	-17.51	-10.26
Zone 3	-0.47	-13.05	-5.81	Zone 3	-0.37	-11.07	-3.82
Zone 4	-0.42	-11.98	-4.74	Zone 4	-0.29	-9.46	-2.21
Zone 5	-0.45	-12.68	-5.43	Zone 5	-0.45	-12.68	-5.43
Zone 6	-0.45	-12.68	-5.43	Zone 6	-0.45	-12.68	-5.43
Zone 1E	0.78	12.08	19.32	Zone 1E	0.61	8.65	15.90
Zone 2E	-1.07	-25.15	-17.91	Zone 2E	-1.07	-25.15	-17.91
Zone 3E	-0.67	-17.17	-9.93	Zone 3E	-0.53	-14.29	-7.04
Zone 4E	-0.62	-16.06	-8.81	Zone 4E	-0.43	-12.27	-5.03

*Note: Use roof angle θ = 0 degrees for Longitudinal Direction.

For Trans. when GCpf is neg. in Zones 2/2E:For Long. when GCpf is neg. in Zones 2/2E:Zones 2/2E dist. = 50.00 ft.Zones 2/2E dist. = 50.00 ft.Remainder of roof Zones 2/2E extending to ridge line shall use roof Zones 3/3E pressure coefficients.

MWFRS Wind Load for Transverse, Torsional Case MWFRS Wind Load for Long., Torsional Case Surface GCpf p = Net Pressure (psf) Surface p = Net Pressure (psf) GCpf (w/ +GCpi) | (w/ -GCpi) (w/+GCpi)(w/-GCpi) Zone 1T 1.69 3.50 Zone 1T 1.11 2.92 ____ ____ Zone 2T -4.38 -2.57 Zone 2T -4.38 -2.57 Zone 3T -3.26 -1.45 Zone 3T -2.77 -0.96 --------Zone 4T -1.18 Zone 4T -3.00 -2.36 -0.55 ----____

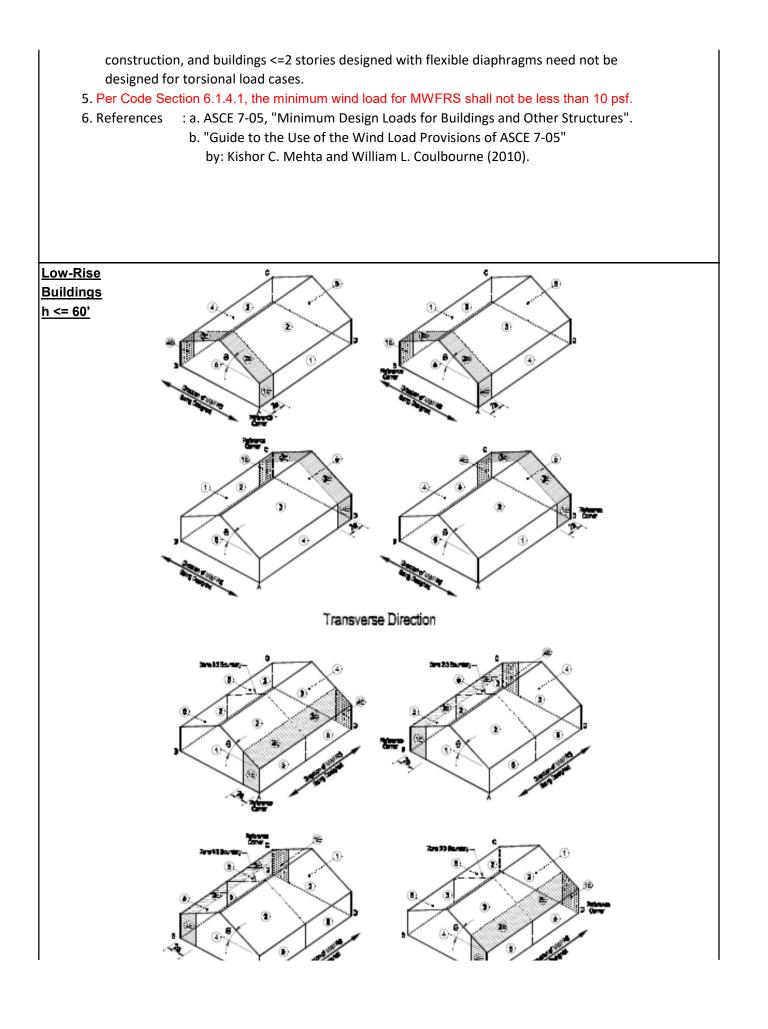
Notes: 1. For Transverse, Longitudinal, and Torsional Cases:

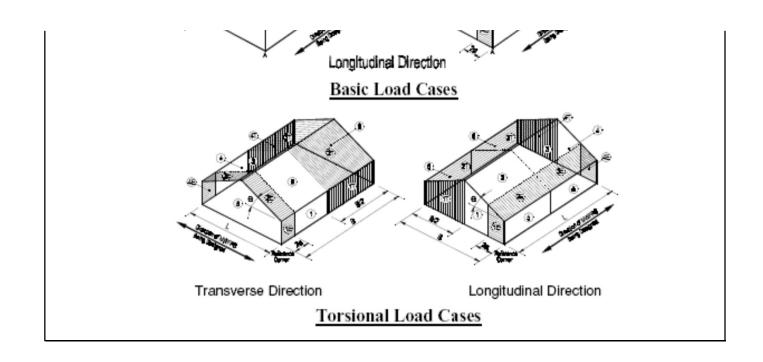
Zone 1 is windward wall for interior zone. Zone 2 is windward roof for interior zone. Zone 3 is leeward roof for interior zone. Zone 4 is leeward wall for interior zone. Zones 5 and 6 are sidewalls. Zone 1T is windward wall for torsional case Zone 3T is leeward roof for torsional case

Zone 1E is windward wall for end zone. Zone 2E is windward roof for end zone. Zone 3E is leeward roof for end zone. Zone 4E is leeward wall for end zone.

Zone 2T is windward roof for torsional case. Zone 4T is leeward wall for torsional case.

- 2. (+) and (-) signs signify wind pressures acting toward & away from respective surfaces.
- 3. Building must be designed for all wind directions using the 8 load cases shown below. The load cases are applied to each building corner in turn as the reference corner.
- 4. Wind loads for torsional cases are 25% of respective transverse or longitudinal zone load values. Torsional loading shall apply to all 8 basic load cases applied at each reference corner. Exception: One-story buildings with "h" <= 30', buildings <= 2 stories framed with light frame</p>





Version 1.4