Alongwind, Acrosswind, Torsional Moments and Acceleration Response

Table C26.9-4

Load Components	σ_{CM}	Survivability Design			Serviceability Design				
		Aerodynamic load Coefficient		Base moments (10e6 kips_ft)	Aerodynamic load Coefficient.		Acc. (milli-g or rad./s^2)		
		f_1	$C_M(f_1)$	$\hat{M}$	f_1	$C_M(f_1)$	σ_a	Corner X	Corner Y
D*				2.85			5.44	6.39	9.46
D	0.109	0.156	0.048	2.67	0.211	0.040	5.32		
L	0.133	0.156	0.192	3.89	0.211	0.073	8.77		
T	0.044	0.273	0.059	0.15	0.369	0.040	0.002	3.54	3.54

*- Based on ASCE 7 Directional Procedure
D- Alongwind direction
L- Acrosswind direction
T- Torional direction

Note: As this database is experimental in nature, it will be expanded and refined as additional wind tunnel data is made available. These enhancements will be made available at (www.seinstitute.org) as subsequent versions of ASCE 7 are released. Past versions of the database will also be permanently archived at this site.