AXIOM STRUCTURES Date Designer Job No. Page 20-Dec-18 KK 15005

85 Camden Mews		20-Dec-18		KK	15005		
Wind Loading to BS 6399 : Part 2 : 1997 Standard Method (Section 2)							
Location: Wind Load on Building							
Stage 1:	Height of Building; H Building Type Factor; Kb Dynamic Augmentation Factor; Cr	4.8 m 0.5 0.0068	0.5 (Ref: Table 1)				
Stage 2:	H and Cr are within limits of applicability for section 2						
Stage 3:	Basic Wind Speed; Vb	20.5 m/s	(Ref: I	Figure 6)			
Stage 4:	If topography <u>not</u> considered significant Site Altitude; Δs Topography is not significant	$\begin{array}{c} \text{it, set } Z = 0 \\ \hline & 47 \\ \text{m} \end{array}$	If topography <u>is</u> considered significant, then $Z > 0$ Effective Height of Feature; Z 0 m Altitude at base of topography; ΔT 0 m Length of Upwind Slope; L_{D} 0 m Horiz. Distance from Site to Crest; X 0 m				
	Altitude Factor; Sa Direction Factor; Sd	1.05 0.95	Wind Direction (from N=0, E=90), f Set Sd to Unity? (Y/N)				
	Seasonal Factor; Ss	1.00	(See Annex D; Table D1. Unity is conservative)				
	Probability Factor; Sp	1.00	(From	(From Equation D1) Annual Risk; Q 0.020			
	Site Wind Speed; Vs	20.46 m/s			[Default value = 0.02]		
Stage 5:	Reference Height; H _r Effective Height; H _e	4.8 m 4.8 m		Height of Obstru Upwind Spacing		0.0 m 0.0 m	
Stage 6:	The Standard Method of Calculating Wind Loads is Adopted						
Stage 7:	Town or Country Site Location; T or C Diagonal Dimension, a Size Effect Factor; Ca Terrain and Building Factor; Sb Effective Wind Speed; Ve	t 8.5 0.95 1.38 28.24 m/s		Closest Distance Set Ca to Unity Set Sb to Unity	? (Y/N)	50 km N N	
Stage 8:	Dynamic Pressure; qs	0.489 kN/r	n²				
Stage 9:	External Pressure Coefficient; C _{pe} Internal Pressure Coefficient; C _{pi} Net Pressure Coefficient; C _p	1.26	(Ref:	Tables 5,7[walls], Tables 16 - 18) Tables 13, 14, 20		[roofs])	
Stage 10:	External Surface Pressure; pe Internal Surface Pressure; pi Net Surface Pressure; p Loaded Area; A	0.587 kN/r 0 kN/r 0.587 kN/r 1.00 m ²	General building overall dimensions used.				

0.587 kN

sum to unity.

Net load; P