

McCarey Simmonds Limited Design Studio, 94 High Street, Steyning West Sussex. BN44 3RD tel 01273 808820 Originated from Wind Design Workbook © 2000 Chris Buczkowski	Project	Seaspray Cottage, Pagham	Wind Loading Calculations		
	Client	S Falconer	Made by	Date	Job No
	Description	Wind	BMC	8-9-11	MS01526
			Checked	Revision	Page No
	Complimentary Copy				

Design in accordance with BS 6399 : Part 2 : 1997

Standard Wind Speeds

Dynamic Augmentation Factor (Cr)		
Kb	H (m)	Cr
0.5	4	0.006

equ (C.2)

Cr okay - proceed with design

Basic Wind Speed Vb (m/s)	Reference height Hr (m)
22.5	4

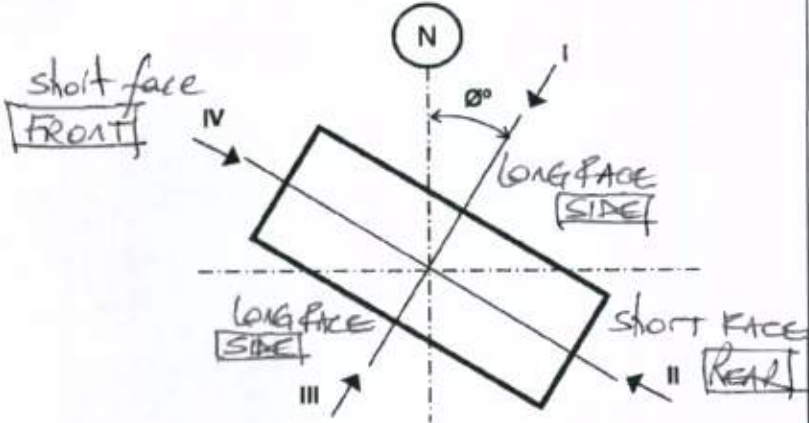
Ss	Sp
1.00	1.00

Standard values:
Ss=1.0 Sp=1.0

Altitude factor for non significant topography

Site altitude, Δ_s (m)	5
Altitude factor, Sa	1.005

equ (9)



Wind directions

- ☐ Building orientation unknown
- ☐ Nearby buildings ignored

		Wind Direction			
		I	II	III	IV
Wind direction	θ°	60	150	240	330
Direction factor	Sd	0.755	0.890	1.000	0.950
Site Wind Speed (m/s)	Vs	17.07	20.13	22.61	21.48

equ (8)

Nearby buildings	Average height (m)	Ho	3	3	3	3
	Upwind spacing (m)	X	2	200	2	200
	Effective Height (m)	He	4.00	4.00	4.00	4.00

Distance to sea (km)		125	0	0	322
Terrain		country	country	country	town
Terrain and building factor	Sb	1.40	1.61	1.61	1.29
Effective Wind Speed (m/s)	Ve	23.97	32.37	36.37	27.70
Dynamic Pressure (N/m ²)	qs	352.1	642.4	811.1	470.3

equ (12)
equ (1)

LONG SHORT LONG SHORT
Worst

