Amendments to the Code of Practice on Wind Effects in Hong Kong 2019

(December 2023)

Legends:

Amended

Deleted

(12/2023)

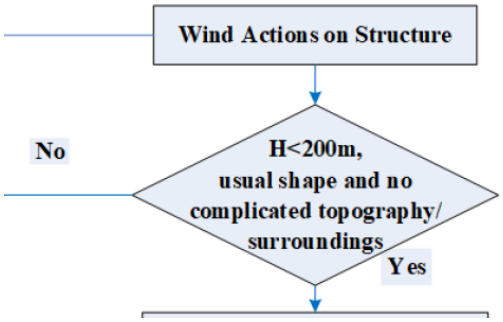
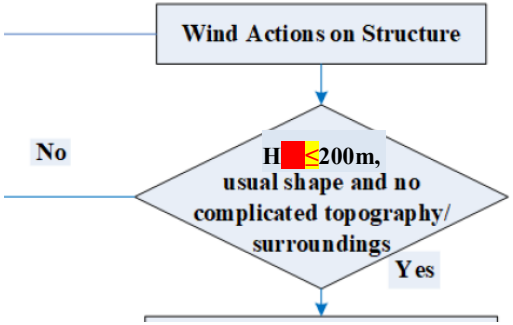
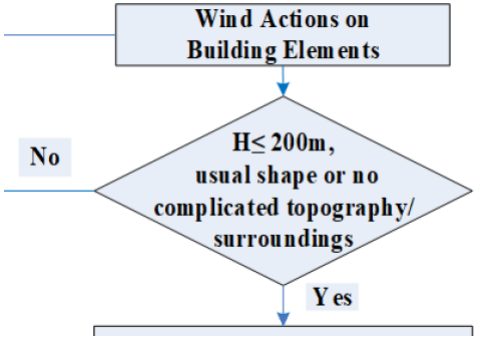
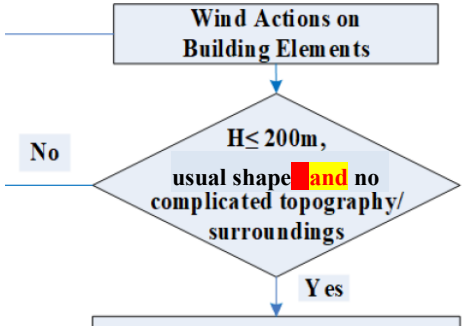
Amendments to the Code of Practice on Wind Effects in Hong Kong 2019 in December 2023 included:

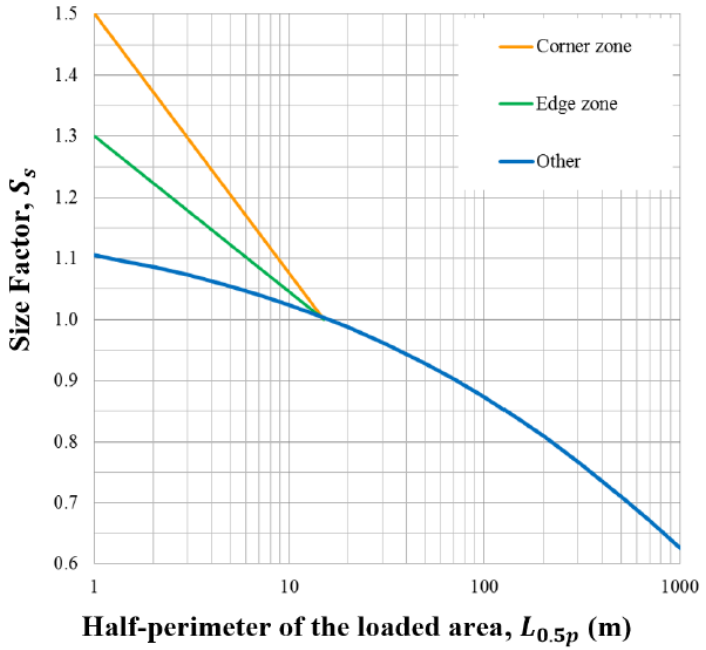
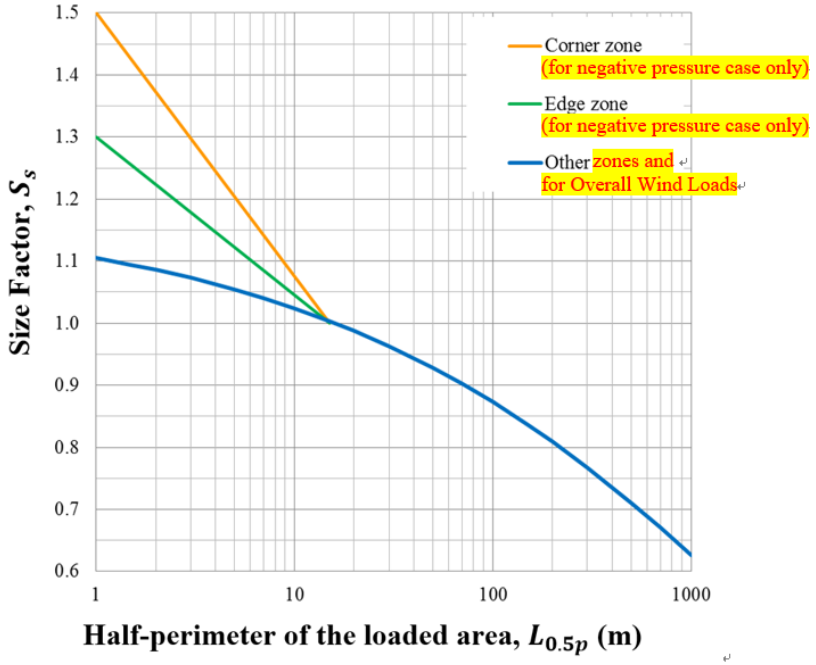
(a) Figures 2-1 and 2-2 – Revision on the condition required to carry out wind tunnel test;

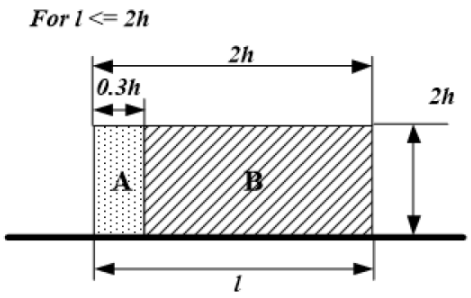
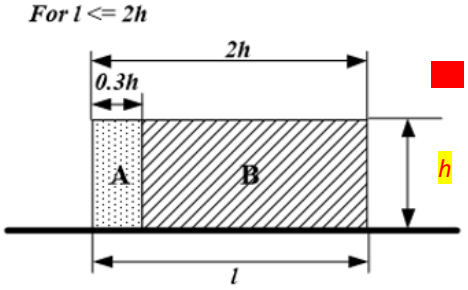
(b) Table 4-1, Appendix A2 and Figure B3-1 – Textual refinement; and

(c) Figure 5-2 and Appendix C1 – Elaboration on calculation of size factor.

Amendments to the Code of Practice on Wind Effects in Hong Kong 2019

Item	Current version	Amendments
1. Figure 2-1		
2. Figure 2-2		
3. Table 4-1	(d) Where there are significant steps in building form, i.e. podiums, the height rules for tower and podium in Figure 4.6(a) and Figure 4.6(b) should be followed.	(d) Where there are significant steps in building form, i.e. podiums, the height rules for tower and podium in Figure 4.5(a) and Figure 4.5(b) should be followed.

Item	Current version	Amendments
4. Figure 5-2	 **Figure 5-2 Size factor, S_s**	 **Figure 5-2 Size factor, S_s**
5. Appendix A2	Figure A2-3 can be used to determine the most and the second most obstructing buildings. The largest and the second largest H_d. Z_e are taken as the following:	Figure A2-3 can be used to determine the most and the second most obstructing buildings (i.e. the largest and the second largest H_d). Z_e are taken as the following:

Item	Current version	Amendments
6. Figure B3-1		
7. Appendix C1	**C1 Equations for Calculation of Size Factor** The size factor, S_s, depends on the loaded area and is defined by the half-perimeter of the area, $L_{0.5p}$ as shown in Figure 5-2. Alternatively, S_s, may be calculated using the formulas below: **Other zones and for Overall Wind Loads** $S_{s=L_{0.5p}} = Exp(0.17 - 0.07\ {L_{0.5p}}^{0.32})$ - Equation C1-1a **Edge** zones if $L_{0.5p}$ < 15m $S_{s=L_{0.5p}} = 1.3 - \log_n(L_{0.5p})/9.0 > 1.0$ - Equation C1-1b **Corner** zones if $L_{0.5p}$< 15m $S_{s=L_{0.5p}} = 1.5 - \log_n(L_{0.5p})/5.4 > 1.0$ - Equation C1-1c	**C1 Equations for Calculation of Size Factor** The size factor, S_s, depends on the loaded area and is defined by the half-perimeter of the area, $L_{0.5p}$ as shown in Figure 5-2. Alternatively, S_s, may be calculated using the formulas below: **Edge** zones if $L_{0.5p} \geq$ 15m, **Corner** zones if $L_{0.5p} \geq$ 15m, **Other zones and for Overall Wind Loads** $S_{s=L_{0.5p}} = Exp(0.17 - 0.07\ {L_{0.5p}}^{0.32})$ - Equation C1-1a **Edge** zones if $L_{0.5p}$ < 15m $S_{s=L_{0.5p}} = 1.3 - \log_n(L_{0.5p})/9.0 > 1.0$ - Equation C1-1b **Corner** zones if $L_{0.5p}$< 15m $S_{s=L_{0.5p}} = 1.5 - \log_n(L_{0.5p})/5.4 > 1.0$ - Equation C1-1c