

# Predicting footfall induced vibration of structures

**4.4.1.2 Incorporating the stiffness and mass contribution of adjacent bays**  
For floors with an adjacent row of parallel bays, the modal mass and frequency should be further multiplied by factors  $K_{mm}$  and  $K_{ff}$  respectively from Figures 4.10a and 4.10b.

Here the main bay under consideration has span  $L_a$  and the adjacent bay has span  $L_b$ . It is assumed that the mass per unit area,  $m$ , of the two bays is the same. The degree of interaction between the bays is related to the ratio of their natural frequencies,  $f_b/f_a$ , in the span direction. In general, this may be expressed as:

$$\frac{f_b}{f_a} = \sqrt{\frac{D_{a,b} L_a^2}{D_{b,a} L_b^2}} \quad (4.18)$$

where the suffixes a and b refer to the two spans.

And so, for floor arrangements such as type ii) in Figure 4.8:

$$f_i = K_{mm} K_{ff} f_o \quad (4.19)$$

$$\text{and } \tilde{m} = \frac{m L A K_{mm}}{4} \quad (4.20)$$

**Figure 4.10a**  
Modal mass factors for a bay with an adjacent parallel bay.



**Figure 4.10b**  
Natural frequency factors for a bay with an adjacent parallel bay.



# Design Guide For Footfall Induced Vibration

**Sebastian Brünink**

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