Table 12.1 Loading on wall A per metre run

Calculation for floor level considered		*Load/m run* (kN/m)		
		Dead load at floor	*Cumulative dead load to floor,* G_k	*Cumulative live load to floor* Q_k
6th floor				
roof dead weight, $3.5 \times 3 \times 1.2$[a]	= 12.6			
weight of wall, 2.6×2.85	= 7.4			
	20.0 kN/m	20.0	20.0	5.4
imposed load, $1.5 \times 3 \times 1.2$[a]	= 5.4 kN/m			
5th floor				
floor dead weight, $4.8 \times 3 \times 1.2$[a]	= 17.28			
wall	= 7.40			
	24.68 kN/m	24.68	44.68	9.72
90% of imposed load, $2 \times 5.4 \times 0.9$	= 9.72 kN/m			
4th floor				
floor dead weight, $4.8 \times 3 \times 1.2$[a]	= 17.28			
wall	= 7.40			
	24.68 kN/m	24.68	69.36	12.96
80% of 3 floors imposed load $3 \times 5.4 \times 0.8$ = 12.96 kN/m				

Table 12.1 *(Contd)*

Calculation for floor level considered			*Load/m run* (kN/m)		
			Dead load at floor	*Cumulative dead load to floor,* G_k	*Cumulative live load to floor* Q_k
3rd floor					
floor dead weight, $4.8 \times 3 \times 1.2$[a]	=	17.28			
wall	=	7.40			
		24.68 kN/m	24.68	94.04	15.12
70% of 4 floors imposed load, $4 \times 5.4 \times 0.7$	=	15.12 kN/m			
2nd floor					
floor dead weight, $4.8 \times 3 \times 1.2$[a]	=	17.28			
wall	=	7.40			
		24.68 kN/m	24.68	118.72	16.2
60% of 5 floors imposed load, $5 \times 5.4 \times 0.6$	=	16.2 kN/m			