

2.2.4. Consideration of vertical component of earthquake

2.2.4.1 – Vertical component of the seismic action, as defined in **1.2.2.4**, shall be taken into account for the cases listed below:

- (a)** Horizontal or nearly horizontal structural members spanning 20 m or more;
- (b)** Horizontal or nearly horizontal cantilever components longer than 5 m;
- (c)** Horizontal or nearly horizontal pre-stressed components;
- (d)** Beams supporting columns.

2.2.4.2 – The analysis for determining the effects of the vertical component of the seismic action may be based on a partial model of the structure, which includes the elements on which the vertical component is considered to act (e.g. those listed in **2.2.4.1**) and takes into account the stiffness of the adjacent elements.

2.2.4.3 – The effects of the vertical component need be taken into account only for the elements under consideration (e.g. those listed in **2.2.4.1**) and their directly associated supporting elements or substructures.