

(c) *Uncoupled structural wall system* is defined as a structural system composed of uncoupled (isolated) structural walls only.

(d) *Frame-dominant dual system* is defined as a structural system composed of moment-resisting frames, which resist more than 50% of the total calculated base shear, in combination with coupled or uncoupled walls.

(e) *Wall-dominant dual system (coupled walls)* is defined as a structural system composed of coupled structural walls, which resist more than 50% of the total calculated base shear, in combination with moment-resisting frames and/or uncoupled walls.

(f) *Wall-dominant dual system (uncoupled walls)* is defined as a structural system composed of uncoupled (isolated) structural walls, which resist more than 50% of the total calculated base shear, in combination with moment-resisting frames and/or coupled walls.

(g) *Inverted pendulum system* in which 50% or more of the mass is in the upper third of the height of the structure, or in which the dissipation of energy takes place mainly at the base of a single building element. One-storey frames with column tops connected along both main directions of the building and with the value of the column normalized axial load less than 0.3 are excluded.

3.1.3.2 – Reinforced concrete buildings may be classified to one type of structural system in one horizontal direction and to another in the other direction.

3.1.3.3 – Behaviour factors for all structural types of *Low Ductility Class* (DCL) shall be taken as $q = 1$.

3.1.3.4 – Behaviour factors for structural types of *Normal Ductility Class* (DCN) shall be taken from **Table 3.1**.

Table 3.1 – Behaviour Factors (q) for reinforced concrete structural types

Structural type	q
Moment resisting frame system	3.5
Coupled structural wall system	3.5
Uncoupled structural wall system	2.0
Frame-dominant dual system	3.0
Wall-dominant dual system (coupled walls)	3.0
Wall-dominant dual system (uncoupled walls)	2.0
Inverted pendulum system	1.5

3.1.4. Design actions

3.1.4.1 – With the exception of structural walls, for which the special provisions of **3.4** apply, the design values of bending moments and axial forces shall be obtained from the analysis of the structure for the seismic design situation in accordance with **2.6**.

3.1.4.2 – The design values of shear forces of beams, columns and structural walls are determined in accordance with **3.2**, **3.3** and **3.4**, respectively.