

BEDD (LDM – B001 : BASIC ENGINEERING DESIGN DATA) 의 DESIGN CONDITION 명기 방법

3.1 Earthquake

Applicable standard for seismic force : Seismic zone 2 (ASCE 7 – 88)

3.1.1 Coefficient of seismic force for tower, vessel and tank shall be as follows ;

$$V = Z \times I \times K \times C \times S$$

where

I : Occupancy importance factor	1.0
K : Horizontal force factor	see below para. 3.1.3
S : Soil factor	1.5

3.1.2 Force factor varing type of structure (K) shall be as below ;

Valoue of K	K
a. Spheres supported on braced legs	2.50
b. Skirt – supported vessels and stacks	1.33
c. Horizontal vessels and stacks	1.10
d. Vertical circular heaters	1.33
e. Horizontal box – type heaters	1.33
f. Boilers	1.33
g. Air cooled exchangers (fin tube)	1.33
h. Cooling towers, wood	1.33
i. Steel and concreted structures, braced	1.33
j. Steel structures, rigid frame	0.67
k. Concrete structures, rigid frame	1.00
l. Concrete ductile moment resisting Space frames	0.67

3.2 Wind

Applicable standard for wind force : Basic wind speed : 45m/sec (ASCE 7-88)