

8 THERMAL LOADS

8.1 Scope of Applications

- (1) This chapter describes thermal loads for the design of buildings.
- (2) When a building is subject to temperature change due to the site layout, the time, the size of the building, the use of the building, or the service conditions, thermal load needs to be considered.
- (3) When the thermal stress or deflection in structural members is reduced by having expansion joints or some other effective measure, thermal load may not be considered.

8.2 Thermal Load

The basic thermal load is the 100-year-return period of the change in outdoor air temperature, solar radiation, underground temperature or equivalent value.