



Regulations of Construction Conditions And Specifications in the Emirate of Sharjah

Aluminum sections shall be insulated thermally by using the thermal isolation system.

Article (2/64): Design of Air-Conditioning System

It means as per this Regulations the system components used in treating, conveying and distributing air, while designing this system, the following must be observed:

1. Preventing as much as possible the infiltration of external air into the building. This shall be made by always placing the air-conditioned spaces under positive pressure, and air curtains to be installed at the common and commercial buildings entrances and exits.
2. Air-conditioning units must be provided with devices of restoring power with capacity no less than 75%.
3. The rates of air-conditioned air leakage from air ducts should not exceed the values stated in the two references (Ashrae Fundamentals & Smacnan 85 Appendix A).
4. Central air-conditioning units shall be provided with a control device for reducing the external air quantity when not needed, particularly when there is a necessity for getting relatively a big quantity of external air.
5. Selecting units that have capacity efficiency coefficient identical to Ashrae Commission Specifications No. (1.90) of the newest edition for the central air-conditioning system.

Article (2/65): Specifications of Thermal Insulation Materials.

Thermal insulation materials used in the external walls and surfaces must include the following properties:

1. They must be of homogenous structure.
2. They must be non-absorbent of water, humidity and water vapor.
3. They must have long and high insulation capacity.
4. They must have good mechanical power.
5. They must be resistant to corrosion and prevailing environment conditions.
6. They must be of fixed dimensions and of weak capability to expansion and contraction.