

Fig. 501.03(1): Selection of Design Parameters in Heat Load Calculation

Fresh air flow as per *Regulation 401.01* must also be provided. Treated fresh air must be provided for at least 95% of the year. The fresh air handling unit must be designed with dry heat temperature of 34° C and humid heat temperature of 32° C. This ensures equipment oversizing is avoided, as extreme hot climatic events are generally for a short duration.

## COMPLIANCE DOCUMENTATION

Table 501.03(4): Documents Required

Project Stages	Submittal Documents
Design Permit Application	1. Heat load analysis report indicating input parameters considered related to outdoor condition, indoor condition, diversity factor and safety factor 2. DM BLDG AC unit schedule.
Construction Completion Application	Not applicable.
After Completion	Not applicable.

## REFERENCES AND ADDITIONAL INFORMATION

Dubai Municipality. (2003). DM Administrative Resolution No. (66) of 2003 - Approving Regulations the Technical Specifications for Thermal Insulation System and Control of Energy Consumption for Air-Conditioned Buildings in the Emirate of Dubai.

American Society of Heating, Refrigerating and Air-Conditioning Engineers. (2017). ASHRAE Handbook — Fundamentals, [www.ashrae.org](http://www.ashrae.org).