ISO 18523-1:2016-11 (E)

Energy performance of buildings - Schedule and condition of building, zone and space usage for energy calculation - Part 1 : Non-residential buildings

Contents

Page

Foreword v

Introduction vi

1 Scope 1

2 Normative references 1

3 Terms and definitions 1

4 Framework of the schedule and condition for building energy calculation 7
4.1 Indispensable schedules 7
4.2 Daily schedule 8
4.3 Division of year and daily, weekly, monthly, seasonal and annual allocations of daily schedule 10

5 Conditions for energy calculation included in the schedule and condition of building, zone and space usage 13
5.1 Energy needs and uses 13
5.2 Condition 13
5.2.1 General information on occupancy and usage 13
5.2.1.1 Occupancy density 13
5.2.1.2 Simulataneous usage ratio of a set of zones and spaces 14
5.2.2 Operation of technical building systems and requirement for the services 14
5.2.2.1 Space heating and cooling 14
5.2.2.2 Ventilation for conditioned zone or space 14
5.2.2.3 Lighting 15
5.2.2.4 Domestic hot water 15
5.2.2.5 Ventilation for unconditioned zone or space 15
5.2.3 Internal heat gains 16
5.2.3.1 Person 16
5.2.3.2 Lighting 16
5.2.3.3 Appliances 16

6 Category of building, zone and space 17
6.1 General 17
6.2 Category of building 17
6.3 Category of space or zone 17

Annex A (informative) Format of daily schedule 19

Annex B (informative) A set of annual schedules by daily allocation of daily schedules 21

Annex C (informative) Categories of space and zone 27

Annex D (informative) A set of daily schedules for categories of space and zone 35

Annex E (informative) Examples of building 207

Bibliography 252