

Compliance Requirements and Documents

101.01 Energy Compliance Method

There are two compliance routes for energy performance in these regulations. The standard method is referred to as the Elemental Method; the alternative method is referred to as the Performance Method.

a. Elemental Method: All buildings must comply with each of these regulations.

b. Performance Method: Alternatively, a calculation method may be employed for a building which may not comply with all the elemental requirements of those Articles listed in Table 101.01 (1).

The Performance Method, using a calculation tool such as dynamic thermal modelling, must compare the annual energy consumption of the proposed building with that of a reference building which meets all the elemental requirements listed in Table 101.01 (1). The reference building must be equal in shape, size and operational patterns to the proposed building. This shall be done as per ASHRAE 90.1 appendix G, except for the minimum requirements for building envelope, equipment efficiencies and other parameters and conditions that are already set in Al Sa'fat.

Compliance with Al Sa'fat - Dubai Green Building System will be demonstrated if the annual energy consumption of the proposed building is equal to or lower than the annual energy consumption of the reference building.

Table (1) 101.01 - List of Regulations to be complied with for Energy Compliance

Al Sa'fat - Dubai Green Building System for Elemental Method of Energy Compliance	
304.05	Orientation of Glazed Facades
501.01	Minimum Envelope Performance Requirements
502.01	Energy Efficiency - HVAC Equipment and Systems
502.04	Lighting Power Density - Interior

101.02 Water Compliance Method

There are two compliance routes for water performance in these regulations. The standard method is referred to as the Elemental Method; the alternative method is referred to as the Performance Method.

a. Elemental Method: All buildings must comply with each of these regulations.

b. Performance Method: Alternatively, a calculation method may be employed for a building which may not comply with the elemental requirements for water efficient fixtures detailed in Article 601.01.

The Performance Method, using a calculation tool, must compare the annual water consumption of the proposed building with that of a reference building which meets all the elemental requirements detailed in Article 601.01. The reference building must be equal in shape, size and operational patterns to the proposed building.

Compliance with the Green Building regulations will be demonstrated if the annual water consumption of the proposed building is equal to or lower than the annual water consumption of reference building.

Table no. (1) 101.02 Silver Sa'fa Requirements

Sr.	Section	Chapter	Regulation No.	Regulation Title
1	Ecology and Planning: (300)	Chapter 1 - 301: Access and Mobility	301.01	Enabled Access
2			301.02	Preferred Parking **
3		Chapter 2 - 302: Ecology and Landscaping	302.01	Local Species
4		Chapter 3 - 303: Neighbourhood Pollution	303.01	Exterior Light Pollution and Controls *
5		Chapter 4 -304: Microclimate and Outdoor Comfort	304.01	Urban Heat Island Effect *
6			304.02	Heat Rejection Equipment Installation
7			304.04	Colours on the Outside of Buildings
8			304.05	Orientation of Glazed Facades **
9			304.06	Hardscape *
10			304.07	Shading of Public Access Areas **
11		Chapter 5 - 305: Environmental Impact Assessment	305.01	Environmental Impact Assessment
12	Building Vitality: (400)	Chapter 1 - 401: Ventilation and Air Quality	401.01	Minimum Ventilation Requirements for Adequate Indoor air quality
13			401.02	Indoor Air Quality During Construction, Renovation and or Decoration
14			401.03	Air Inlets and Exhausts
15			401.04	Isolation of Pollutant Sources
16			401.05	Openable Windows
17			401.06	Indoor Air Quality Compliance - New Buildings
18			401.07	Indoor Air Quality Compliance - Existing Buildings
19			401.08	Sealing Doors and Window Frames
20			401.09	Inspection and Cleaning of HVAC Equipment
21			401.10	Parking Ventilation
22			401.11	Environmental Tobacco Smoke