

WIND CODE EVALUATION

EL SALVADOR

Evaluation conducted by Guillermo Santana

NAME OF DOCUMENT: Not available

YEAR:

GENERAL REMARKS: There is no knowledge of the existence of a Wind Code for El Salvador.

SPECIFIC ITEMS:

1. SCOPE

- 1.1 Explicit Concepts and Limitations**
- 1.2 Performance Objectives**

2. WIND HAZARD

- 2.1 Basic Wind Speed**
- 2.2 Topography**
- 2.3 Height above Ground (Case Specific)**
- 2.4 Ground Roughness (Number of Exposure Categories)**

3. WIND DESIGN ACTIONS

- 3.1 Importance Factors**
- 3.2 Scale Effects**
- 3.3 Pressure (Internal and External)**
- 3.4 Dynamic and Aero-elastic Effects (Gust Effects)**
- 3.5 Directionality Effects**

4. METHODS OF ANALYSIS

- 4.1 Simplified Procedure**
- 4.2 Analytical Procedure**
- 4.3 Experimental Procedure**

5. INDUCED EFFECTS

- 5.1 Impact of Flying Objects**
- 5.2 Wind Driven Rain**

6. SAFETY VERIFICATIONS

- 6.1 Structure**
- 6.2 Claddings and Non-Structural Elements**

7. SMALL RESIDENTIAL BUILDINGS

RECOMMENDATIONS FOR CODE IMPROVEMENT

No provisions are available for wind design in El Salvador. It is strongly recommended by the reviewer that actions are taken for the elaboration of a wind design code that can be put into a document like the one evaluated for seismic design. It is also necessary to establish the institutional support by which the periodical updating of the standard can be accomplished. Perhaps the creation or strengthening of existing regional professional organizations focused on code development activities is in order.