

HURRICANE SHUTTER SPECIFICATIONS FOR WATERSIDE CONDO

Approved - equip.
to be hidden
inside railing -
not seen from
road
- must use
Dade Co
codes

HURRICANE SHUTTERS

I GENERAL:

- A) Hurricane shutters shall be extruded aluminum roll down type. Shutters must have appropriate specifications including installation, hardware and attachment equal to or exceeding the specifications attached hereto.
- B) Roll down shutters shall be designed in accordance with the new Florida Building Code 2004
- C) All aluminum extrusions shall be 6063-T6 alloy.
- D) All fasteners to be stainless steel or non-corrosive type.
- E) Shutters must be installed on the balconies next to the railing. *
- F) All hoods and track must be stuccoed to match building.
- G) The shutter's slat will be (baked on enamel or powder coated finish).
- H) This specification is written at a time when the above rules are in force. Any future changes to the Florida Building Code, or local building codes will automatically be considered to control this specifications.

II MATERIALS:

- A) **Aluminum for roll down shutter components:**
 - 1. All aluminum mullions will have a minimum .125 thickness and be 6063-T6 alloy.
 - 2. Profile of aluminum slats will have a minimum height of 58mm (2.312") excluding J- hook.
 - 3. All components shall be labeled on submitted engineering drawings.
- B) **Hardware and Fasteners:**
 - 1. Hardware shall conform to engineering drawings and must be manufactured of a non-corrosive material. All fasteners shall be stainless steel or non-corrosive while maintaining tension and shears as engineered in accompanied raised seal drawings

C) Structure and Housing:

1. All exposed covers (housings) and structural components except storm bars and slat are required to have a stucco coated finish and be painted to match the building. All stuccoed surfaces must be properly prepared with a synthetic texture coating such as accrete or drivit. Stucco coating must have a minimum of 3 yr warranty against chipping or peeling from normal weathering.

D) Housings (Hoods):

1. Housings shall be made of roll formed aluminum coil, with a minimum thickness of .032". Housings will be constructed with the top of housing having a slope at a minimum of 3/4" in a 10" projection from the wall allowing for drainage. The housings will be totally independent of the mechanism that holds the shutter to the wall structurally. End cap system or box hood system is not permitted. The purpose of the sloped hood is to eliminate trapped water between the hood and building.

E) No End Cap or Pre-Cast Systems or Module

1. End Cap or Pre-Cast Systems or Module for roll down shutters is prohibited. The bracket system is the only system approved.

D) Floor Sealants:

1. All screws and fasteners anchored in the floor or slab must be set in one-component elastomeric polyurethane sealant such as NP 1 or it's equivalent.

III OPERATORS:**A) Operators:**

1. Any manual shutters shall have a sealed, pre-lubricated gear assembly designed for the capacity of the shutter.
2. All type motors shall have a minimum of a 5 yr. Warranty against any failure due to normal operation.
3. Motors will be equipped with a manual override.

IV INSURANCE:

1. General liability- combine single limits of total of 2 million dollars per occurrence
2. Auto liability- limits should be 500 thousand per person/ 500 thousand per accident/ 100 thousand property damage.

V ENGINEERING:

1. Roll down shutters must be deigned in accordance with the 2004 edition of the Florida Building Code, section 1606, as per ASCE7-02 standard, meeting the requirements for impact and fatigue resistance.

END OF SPECIFICATIONS