

Project: **TSUBAKI HOTEL_ALUMINUM WINDOW FRAME
STRUCTURAL CALCULATIONS (ACW-1)**
Guam

Date: May 8, 2018

DESIGN CRITERIA

A. REFERENCES:

1. Aluminum Design Manual
2. Minimum Design Loads for Buildings and Other Structures, ASCE 7-05

B. MATERIALS:

1. Structural Steel Shapes (Aluminum). $F_{tu} = 22 \text{ ksi}$
 $F_{ty} = 15.65 \text{ ksi}$
 $F_{cy} = 15.65 \text{ ksi}$
2. Structural Steel Shapes (Steel). $F_y = 34.14 \text{ ksi}$
3. Modulus of Elasticity (Steel) $E = 29,000 \text{ ksi}$
4. Modulus of Elasticity (Aluminum) $E = 9,956.34 \text{ ksi}$

C. LOADS:

C.1 Deadload

Structure Weight(*Selfweight*)

C.2 Windload

Wind Velocity , V = 170mph
Exposure Category, E = C

