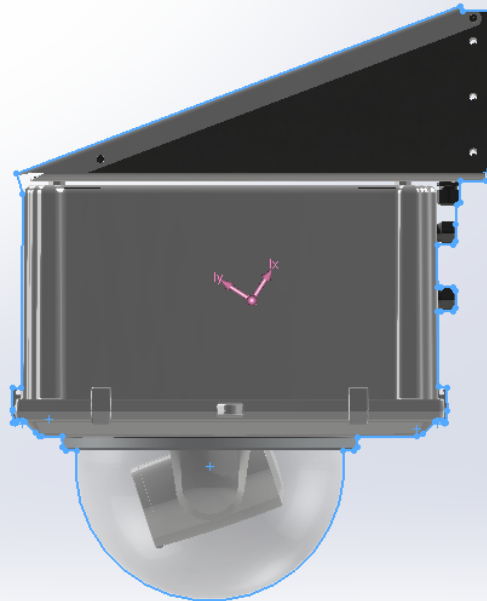
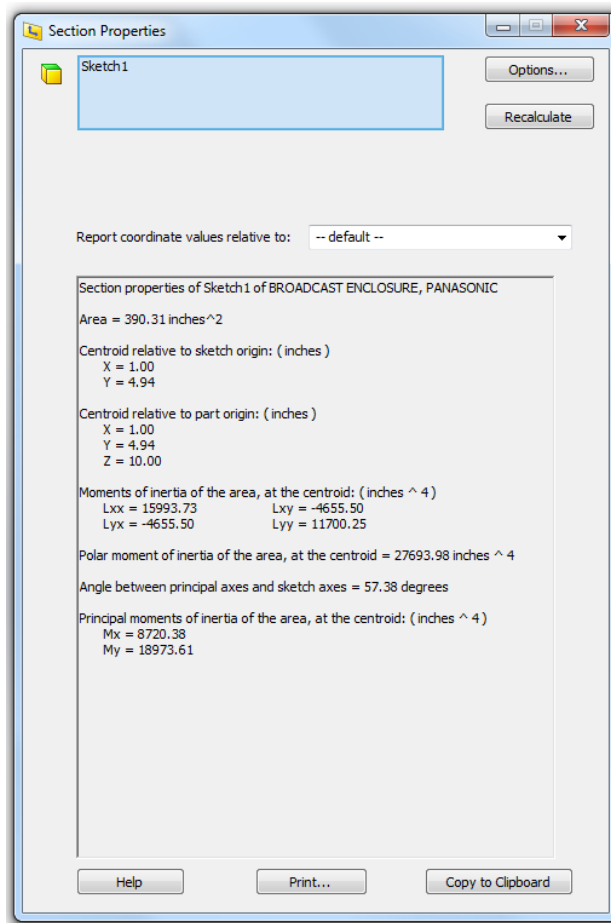


Dotworkz HD12 Series Housings - Sectional Area Detail for Wind Loading Calculations for Housing & Mount

Sectional Area for HD12 Housing Series: **390 in² = 2.71 ft²**



FORMULA USED: (UBC '97)

$$F = A * (C_e * C_q * Q_s)$$

SQ FT:

2.71 sq ft

WIND PRESSURE @ Wind Speed 110 mph (177 kph):

62.014 lbs per sq ft by definition

TOTAL FORCE:

$$62.014 \times 2.71 = \underline{168 \text{ lbs. Wind Force}}$$

ELEMENTS: by UBC '97 definitions

C_e = 1.54

C_q = 1.3

Q_s = 30.976

Exposure B @ 30 ft above ground (9.14 meters)

Dotworkz HD12 Housing with Wall Mount tested to withstand over 200 lbs force (lateral / vertical) without product shearing failure, when secured with anchoring hardware of equal or greater shear values, and anchoring substrates of equal or greater shear strength values.