

\*\*\*\*\* GROUND RELEASE II Tilt-up Analysis \*\*\*\*\*

Operator : BP  
Job no.: 13200  
Panel no.: APPROACH SLAB 1 & 3  
Date : 4/26/2013

Insert type: Other  
Safe working load = 25000 lbs.  
Concrete compressive strength = 3500 psi.  
Allowable bending strength = 354.9648 psi.  
Steel grade = 60  
Concrete unit Weight = 150 pcf.

Panel geometry

Feature number - 0 (Panel perimeter)  
X( 0) =00.00 Y( 0) = 00.00 Width( 0) =22.9896 Height( 0) = 08.2083  
X( 1) =00.00 Y( 1) = 08.2083  
X( 2) =22.9896 Y( 2) = 08.2083  
X( 3) =22.9896 Y( 3) = 00.00

Feature number - 1 (Opening)  
X( 0) =00.00 Y( 0) = 00.00 NON RECTANGULAR FEATURE  
X( 1) =00.00 Y( 1) = 08.2083  
X( 2) =00.00 Y( 2) = 08.2083  
X( 3) =02.9896 Y( 3) = 00.00

Feature number - 2 (Opening)  
X( 0) =20.00 Y( 0) = 08.2083 NON RECTANGULAR FEATURE  
X( 1) =20.00 Y( 1) = 08.2083  
X( 2) =22.9896 Y( 2) = 08.2083  
X( 3) =22.9896 Y( 3) = 00.00

Weight and C. G.

Structural thickness = 15.00 in.  
Overall thickness = 15.00 in.  
Projected area = 164 sq. ft.  
Effective area = 164 sq. ft.  
X-bar = 11.49 ft.  
Y-bar = 4.10 ft.  
Z-bar = 7.50 inches  
Bottom Concrete Cover for reinforcing = .75 in.  
Top Concrete Cover for reinforcing = .75 in.  
Weight = 30781.30 lbs.  
Minimum number of inserts required by Weight = 2