

Screven Warehouse Design Details

1. 25' X 25' Column Spacing Exterior / 50' X 50' Column Spacing Interior
2. 200' X 250' = 50,000 s.f.
3. T.O.S. = 32'-6" to 34'-8" at the center
 - a. Bar Joists are 30"
 - b. Clear Height is 30'-0" to 32'-2" at the center
4. Foundation at both ends drops 5 feet for future recessed loading bays
5. Walls are 10" thick.
6. Top of Footing to Finish Floor is 1'-6"
 - a. Accommodates a slab thickness of 4" to 18"
7. Roof steel has 6 locations for roof top units.
 - a. Design weight of roof top units is 4,000 lbs.
8. Rebar at end walls designed to accommodate 19 possible future roll-up doors
9. To expand at end walls:
 - a. Step up footings and back down to re-use taller panels.
 - b. Would need to add to end footers for uplift.
 - c. Either side we'd need to add shear to replace panel loads.
 - d. Either side we could possibly re-use panels.
10. Roof statistics:
 - a. 6" expanded polystyrene insulation
 - b. 2" light weight insulating concrete
 - c. TPO 60 mil mechanically fastened
 - d. EPS- R4/in = R24
LWC- R2.5/in = R5
Total= R29 (R30 after you include deck and TPO itself)

T. Kevin Palmer, AIA, NCARB
DPR Architecture
12A East Grady Street
Statesboro, GA 30458
(912) 536-3323
kevin@dprarch.com