

# Project Spotlight: Pennsylvania State Archives

Harrisburg, PA

Ceco's wide-module flangeforms were used to accommodate the high loads of the four-story Records Storage Building at the PA State Archives project. The weight of records storage and use of custom automated storage systems contribute to the building's high design live loads. The building's dead loads are also high due to the climate-monitoring equipment embedded into concrete topping slabs as well as the weight of the rack systems used for records storage. Floor heights are 18 feet 4 inches.

**PROJECT TYPE**

Storage Building 26,500 SF / Typical Level

**DESIGN LOADS**

LL = 300 PSF; SDL = 60 PSF

**TYPICAL FLOOR MATERIAL QUANTITIES**

- Slab Concrete: 1200 CY, equivalent slab depth of **14"**
- Slab Rebar: 173 TNS, equivalent **13 #** / SF

**TYPICAL FLOOR PLAN**

Total depth 29" for joists and beams (no beams below pan depth)

Bay Width - 34' 6" Bays, Length 17' 4" & 23' 4" Bays

Pan Size - 24" depth; 53" width; 5.0" thick slab

**TYPICAL STORAGE LEVEL CYCLE**

40 Days

