

The Residence at Arundel Preserve

Anne Arundel County, Maryland

Structural

The main structural system utilizes the Hambro joist system. This is a form of steel joist with concrete slab on top.

The Joist system is support by 6" light gage steel studs bearing walls.

The lateral loads are resisted by a light gage steel x bracing system.

Architecture

"The Residence" is a new construction apartment and retail building part of the Arundel Preserve Town Center Phase I project.

Along with the residential units the building also included a terrace level that contains a clubhouse, health center, and an outside pool.

Lighting/Electrical System

Electricity to the building is provided by two 277/480v 3 phase transformers, one for residential power and one for commercial power.

Fluorescents, compact fluorescents, and LED are used throughout the build.

Building Statistics

Occupancy: Mix use, Residential /Retail

Size: 300,000 gross s.f.

Height: 5 stories, 60 ft.

Dates of construction:

September 2009- February 2011

Project Team

Owner: Sumerset Construction

General Contractor/Developer:

Encore Developer

Architect: CE*X, Inc

Structural Engineer: Cates Engineering, Ltd.

Civil Engineer: Morris Ritchie Associates, Inc.

MEP Engineer:

Siegel, Rutherford, Bradstock Ridgway, Inc.

Geotechnical: Geo-Technology Associates, Inc

Landscape Architect: The Faux Group, Inc

Mechanical system

The hot and cold water is supplied by three centrifugal chiller units and by three natural gas hot water boilers.

Each of the apartment houses its own concealed modular type dual-coil vertical fan coil.

Ryan English|Structural Option

