

Building Statistics



General Building Data

Building Name: Inova Fairfax Hospital South Patient Tower

Location: Falls Church, VA

Owner: Inova Fairfax Hospital <http://www.inova.org/>

Function: Healthcare including private intensive care and medical/surgical rooms

Size: 216,000 square feet

Number of stories: 13 stories (12 above grade and 1 below)

Height: 147.55 feet

Dates of construction: Started July 27, 2010- August 2012

Project Cost: \$161million

Project Delivery Method: Design-Bid-Build

Project Team

GC: **Turner Construction**

375 Hudson Street
New York, NY 10014

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<http://www.turnerconstruction.com/>

Architect:

Wilmont Sanz, Inc.

18310 Montgomery Village Ave, Suite 300

Gaithersburg, MD 20879

<http://www.wilmot.com/>

Engineer:

RMF Engineering, Inc.

134 10th Street, NW Suite D

Charlottesville, VA 22903

<http://www.rmf.com/>

Electrical Contractor: **Truland Service Corporation**

5701-J General Washington Drive

Alexandria, VA 22312

<http://www.truland.com/>

Architecture

The tower which is located on 3300 Gallows Road Falls Church VA will stand at the entrance of the existing main hospital and the two structures will connect on all 11 levels. RMF employs Building Information Modeling (BIM) software at INOVA Fairfax Hospital. The exterior of the building are mainly the combination of precast conc. Panel with thin bricks, aluminum curtain wall and glasses.

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National Model Codes

- Virginia Uniform Statewide Building Code-2006edition
- International Building Code (IBC)2006&2006supplement
- ICC international mechanical code2006
- ICC international plumbing code2006
- National Electrical Code2005
- International Energy CONSERVATION code 2000
- NFPA National Fire Alarm Code 2007

Historical requirements: not applicable.

Building Enclosure

The Inova Fairfax hospital south tower is a building with high performance. Its design of solar control for the south-east tower can reduce glare and solar heat gain in the summer.

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The design of white roof can reduce the urban heat island effect and help to lower the air conditioning costs. Highly efficient mechanical equipment also reduces the costs. The roof is also highly insulated to improve the building enclosure. Highly insulated walls and low emissivity windows will increase the R-Value from 10.4 to 22.4.

Sustainability Features

The building is designed and constructed to achieve a LEED Silver certification from USGBC. Many sustainability features are attributed to it such as the “Green” design includes low-flow plumbing, low or no-VOC buildings materials and furniture, living roof with water cisterns and rain gardens. Solar panels using at the main entrance to the lobby capture free, clean energy from the sun to power the canopy light at night.



The green roof will provide a view to nature for the patients and also reduce the air-conditioning costs, storm water and heat island effect .

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CM option