

POTTORFF

PROJECT SPOTLIGHT

CHOP New Patient Tower Philadelphia, PA

Project Overview

The Children's Hospital of Philadelphia (CHOP) New Patient Tower (NPT) is a landmark healthcare project reshaping Philadelphia's skyline while advancing CHOP's mission of world-class pediatric care. The 26-story, 1.4 million square foot tower integrates clinical excellence, patient-centered design, and advanced building systems.

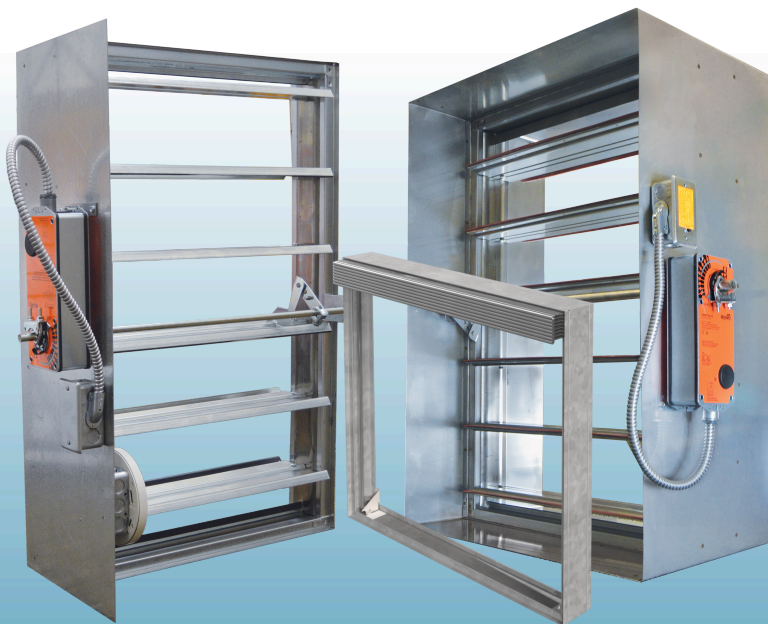
Architect: ZGF Architects

Mechanical Engineer: Ballinger - Philadelphia, PA

Customer: SSM Industries

General Contractor: LF Driscoll

Pottorff Representative: Elite Air Systems



Products included from left to right:
SD-151, VFD-10D, FSD-151



HVAC Life-Safety Solution

Given the building's scale, vertical design, and critical life safety requirements, damper performance and system integration were key design considerations. The FSD-151 Fire Smoke Damper was developed in collaboration with Ballinger to meet the demanding performance needs of a high-rise healthcare facility.

Pottorff Products Specified:

- Fire Dampers – VFD-10D
- Smoke Dampers – SD-151
- Fire Smoke Dampers – FSD-151

FSD Design + Performance Highlights

- Tested and approved for 4,000 FPM at 8 in. w.g.
- Equipped with modulating actuators
- Designed to serve dual functionality:
 - Fire/smoke containment
 - Airflow modulation for volume control

This approach eliminated a separate control damper, reducing system complexity, saving shaft space, and simplifying coordination while maintaining performance.

The CHOP New Patient Tower demonstrates how early collaboration between the engineer, manufacturer, and representative can result in efficient, high-performance HVAC solutions tailored to complex healthcare environments.

Key Features:

- Hundreds of private patient rooms equipped with advanced digital technologies
- Flexible surgical suites and advanced cardiac imaging and operating areas
- A centralized third-floor connector with dining, relaxation, and meditation spaces
- Landscaped outdoor spaces and a new parking structure integrated into the campus

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