

**Project Owner:**

CBS - FDC

**Design Team**

- Architect: Design Republic, Partners Architects
- Engineer: MG Engineering

**General Contractor:**

- JRM Construction Management

**Mechanical Contractor:**

- Unified Air Industries

**ADE Contact:**

- Sales: Carlos Cortes
- Engineering: Nancy Roman

**Manufacturer:**

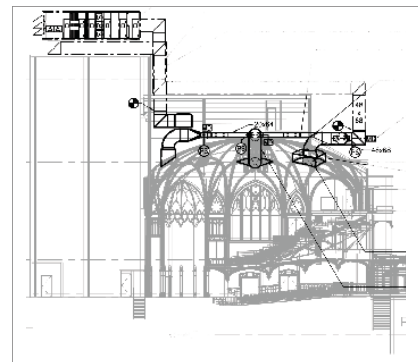
- Prihoda: Fabric Duct
- Titus: Diffusers, Grilles and Terminal Units
- Greenheck: Fans, Fire Smoke Dampers
- Markel: Electric Heat

**Completion Date:**

- July 2015

**Challenges/Problems/Solutions:**

- Fabric duct provided cost effective alternative solution to traditional sheet metal duct and thus provided savings on product labor.
- Limited access to the topside of the existing restored dome was a major issue for this project. Fabric duct was compact and easy to maneuver around the constrictive areas for installation.
- Sound concern was addressed by using a low velocity and low pressure for the specified airflow with addition of internal rings to hold the duct inflated. In general, sound is lower using fabric as there is no metal vibration usually found in traditional metal duct. Having the duct in a non-conditioned space was addressed by using double ducting. Double ducting two layers of duct separated by a layer of air from the inner perforated duct to separate the outside air seen by the non permeable outer duct from the supply air.
- Prihoda expedited fabrication and delivery of their custom product to meet the aggressive project timeline to be completed in 8 weeks. An added benefit was shorter installation time of the fabric duct itself, no painting or sealing or balancing required which helped meet that deadline.



**Project Description:**

A double ducted fabric duct was used as a supply duct from the AHU and connected to restored architectural plaster medallions in a dome ceiling to provide supply air to the theatre.