

Minnesota Adult & Teen Challenge – Stevens Building

Location: Minneapolis, Minnesota

Installing Contractor: Kraft Mechanical

Equipment Supplier: SVL, Inc.



Highlights:

- Q Duct installed in a short time frame to provide improved IAQ.
- Q Shed was utilized to eliminate water pooling on top of ductwork.
- Rebate from the local energy providers available.



Previous metal duct lined with fiberglass, severely damaged due to pooling water and harsh weather conditions over time.

Background: Minnesota Adult & Teen Challenge reached out to SVL regarding an old leaky duct system at their Stevens building. SVL quickly engaged AQC Industries, which manufactures Q Duct®, to assist with their near-nil leakage Q Duct system. While onsite, the AQC team noticed that the current duct severely deteriorated. This finding was shared with the Minnesota Adult and Teen Challenge. Coordination began to replace the duct at the time

of an RTU upgrade by SVL.

Challenge: The most significant challenge encountered was the cold weather and scheduling time to shut down the HVAC to install the ductwork. In January, the outside temperatures reduced the amount of time that the HVAC system could be down without risking damage to the rest of the building. The old duct system was deteriorated and required some time to dismantle. Additionally, the new duct would need a retrofit to maximize the existing layouts and taps.

Solution: SVL worked to identify Q Duct as the best option for the project. Q Duct's exterior material offers all-weather protection. It doesn't rust like metal ductwork. Not only is it very durable, but Q Duct consists of lightweight material. The construction reduces the number of people necessary to install the system. The duct's pieces also fit together quickly and efficiently, at a faster rate than required of typical outdoor ductwork. Furthermore, Q Duct has a reduced production lead time, even with the ability to customize a ductwork system to nearly any project. Q Duct's lightweight weather-resistant materials, fast installation, and production lead time made it an easy choice.

Q Duct's custom features made for an easy to retrofit to the layout of the old duct system. Q Rail® is a mounting system that secures the ductwork to the roof quickly and easily. The Q Duct custom water ponding solution is called Q Shed. It is a slight slope to the top of each Q Duct piece, which wicks precipitation off the ductwork to lengthen the lifespan of the unparalleled duct system. The final one-of-a-kind feature implemented on the Stevens Building rooftop duct system was Q Lok®. Q Duct's unique interlocking connections provide a secure and speedy installation process. Q Lok is so effective that it offers near-nil leakage, further saving money. SVL minimized the air handling unit downtime required with Q Duct's fast and economical installation process.



Installed Q Duct on the roof of the MNATC Stevens Building with Q Rail®, Q Shed®, and Q Lok®.

End Result: Q Duct was installed on the Stevens Building roof, along with its custom features (Q Rail, Q Shed, and Q Lok), which helped to improve the facility's indoor air quality. SVL and Kraft Mechanical worked diligently to reduce downtime. Lee Pawlik, the Minnesota Adult Teen Challenge HVAC Technician, was so pleased with the results that he sent a message to SVL and AQC thanking the teams for an excellent experience. He noted the long life, innovative design, and outstanding warranty that instilled confidence in the new duct system.

For more information about this project or other case studies, visit svl.com.



Roseville : 651.481.8000
Fargo : 701.356.0896



2920 Centre Pointe Dr.,
Roseville, MN 55426
3454 41st St. S.,
Fargo, ND 58104



www.svl.com
team@svl.com