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## Bethel Park High School

Bethel Park, PA

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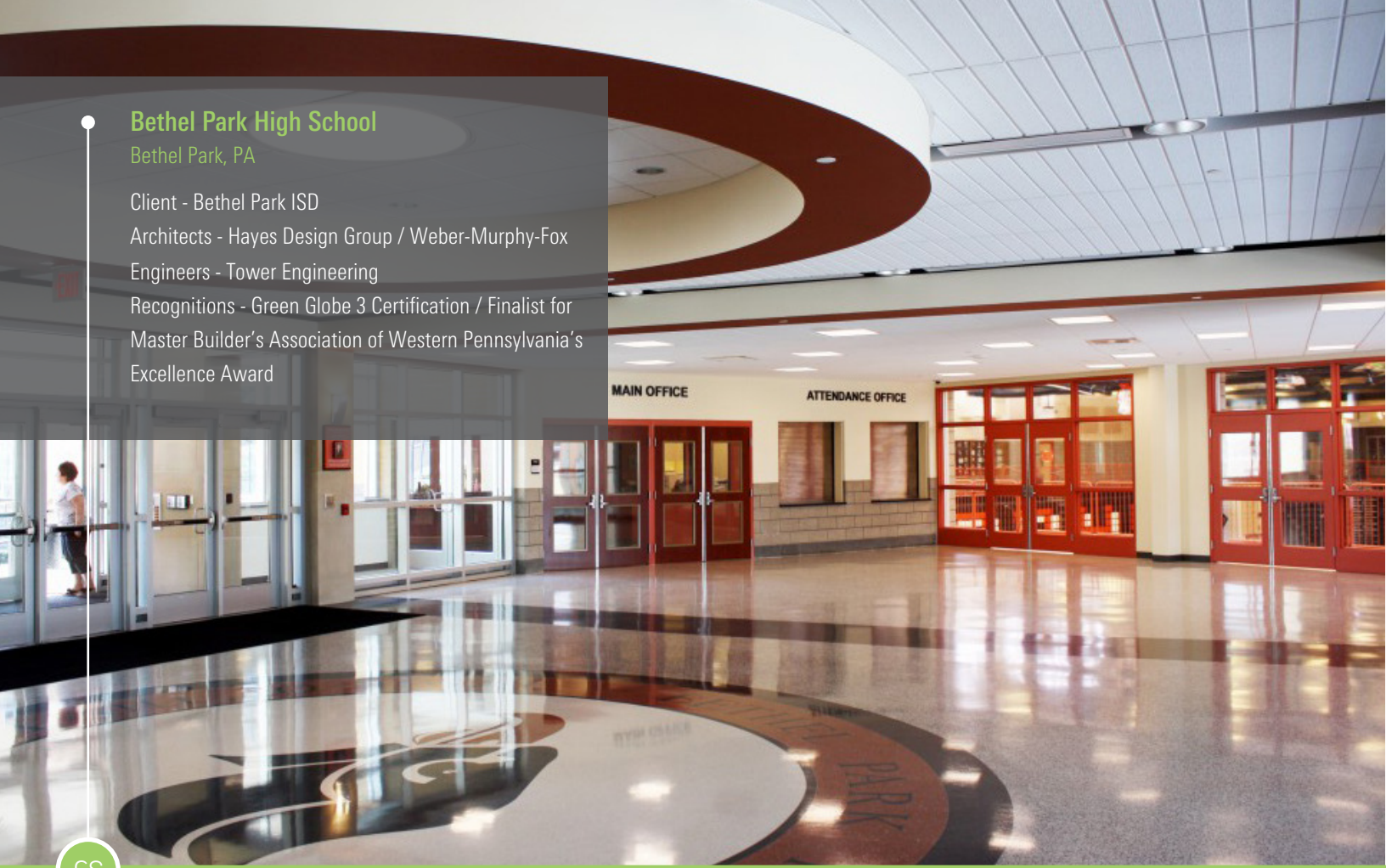
Bethel Park, PA

Client - Bethel Park ISD

Architects - Hayes Design Group / Weber-Murphy-Fox

Engineers - Tower Engineering

Recognitions - Green Globe 3 Certification / Finalist for Master Builder's Association of Western Pennsylvania's Excellence Award



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### ABOUT THE PROJECT

Bethel Park ISD is committed to providing the community the best learning environments that promote safety, occupant health and well-being, and preparedness for the future. When assessing the needs of their students and teachers, it was clear that a new high school facility was needed to position Bethel Park as a leader in educating the next generation.

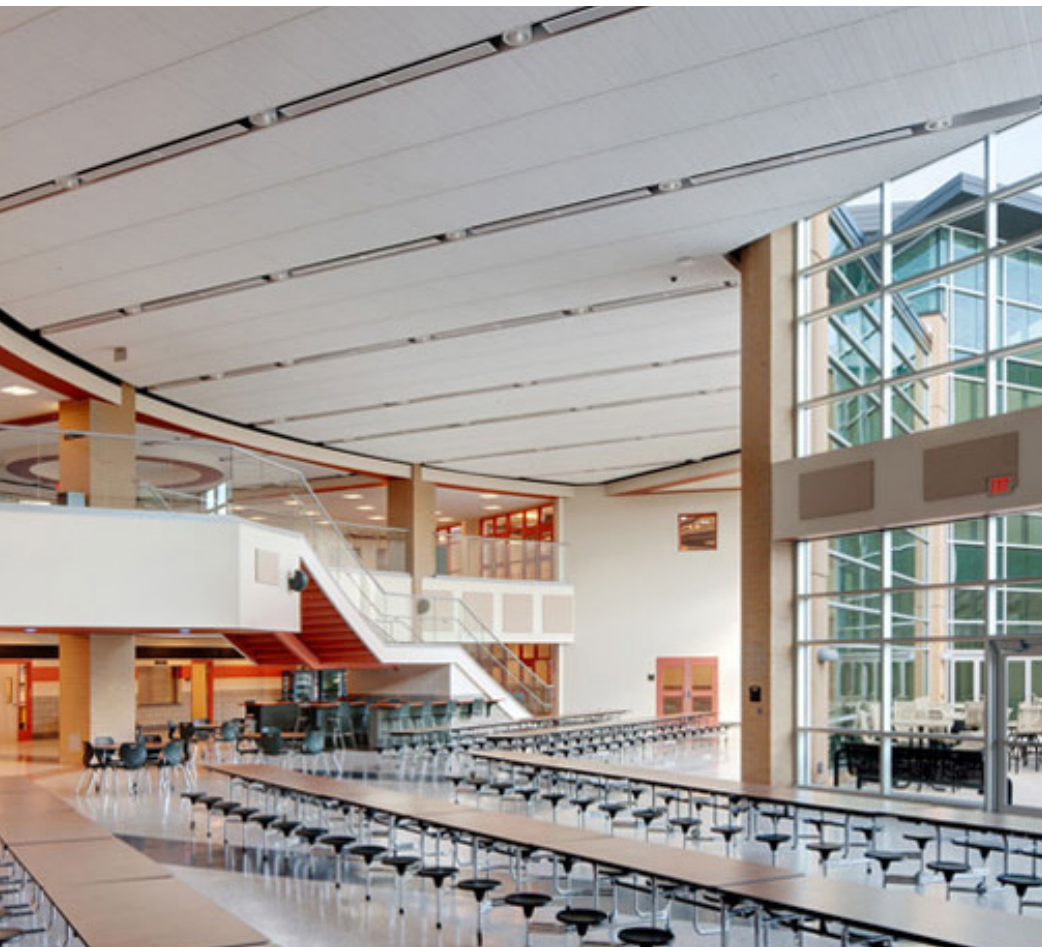
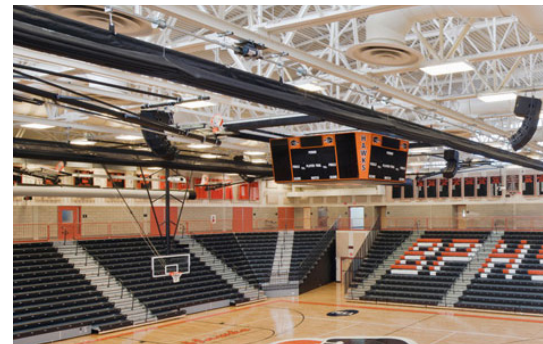
The new Bethel Park High School replaced several outdated buildings with an impressive and breathtaking learning environment for students to grow and prosper for years to come. The design team of Weber-Murphy-Fox and Hayes Design Group created a 321,000 square foot facility that is not only safe and environmentally friendly, but is actually built on the existing footprint of the old structures. Other sustainable features included in the design are the white reflective roof design which reduces the school's overall solar heat gain, utilizing low VOC content materials throughout the building, daylight harvesting to reduce energy usage and the ability to conserve water resources through low flow fixtures and metering. All of these features along with other sustainable design elements allowed Bethel Park High School to achieve Green Globe Level 3 Certification. Principal Zeb Jansante is extremely proud of all the accolades Bethel Park has received.



## THE TITUS SOLUTION

The focus on sustainable design was not limited to just those areas, but also included the layout and design of the HVAC system. Project Engineer, Tom Gorski's main goal was to create healthier classroom environments with low energy costs. It has been documented that students perform better in classrooms where an abundance of fresh air and natural light are present. Bethel Park incorporates several high performing and energy saving products to create this type of learning environment for its occupants. One of the main systems featured inside the classrooms is Displacement Ventilation. The DVIR is a rectangular displacement ventilation product that introduces fresh air into the occupied zone. A unique and beneficial advantage of this product is the easily adjustable pattern controllers that can be positioned to change the direction of the airflow after installation has been completed.

Additionally, the Titus ML, TMRA and OMNI diffusers along with a myriad of other Titus products comprise to create the perfect HVAC system for Bethel Park's new school. The Titus OMNI is a steel plaque face diffuser that satisfies architectural and engineering criteria. The curvature of the OMNI backpan works with the formed edges of the face panel to deliver a uniform 360 degree horizontal air pattern, without excessive noise or pressure drop. The Titus ML Modulinear diffuser is a high performance, high quality linear slot diffuser. The unique "ice tong" deflector blades allows for both changes in air volume and direction from the face of the diffuser. Finally, the TMRA is an adjustable round ceiling diffuser designed for both heating and cooling applications. It also delivers a uniform 360 degree air discharge pattern and exhibits excellent performance in variable air volume systems.



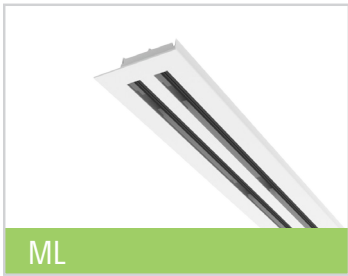
## THE END RESULT

After years of planning and inconvenience, the community of Bethel Park can rest assured that they have a school that was designed with their well-being in mind. The new high school contains the latest technology and more importantly the building itself has now become a teaching tool about the environment and how buildings can impact the community in which they are built in either a positive or negative way. Teachers have always had the ability to inspire their students to achieve more and new facilities tend to influence greatness. Bethel Park ISD is hoping their new school has the same influence on its students for years to come.

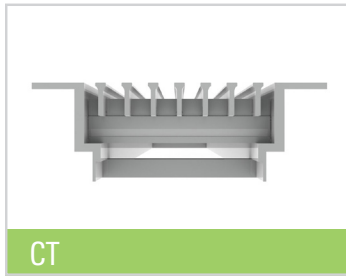


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## PRODUCT LIST



ML



CT



RADIATEC



OMNI



TMRA



300 / 350R



TDC



DVIR