

TYSON FOODS

Noel, Missouri
April 17, 2011

SITUATION:

Tyson Foods couldn't take any chances with rooftop refrigeration pipelines that chilled a 28,000 square foot high-volume chicken processing facility in Noel, Missouri. For this job any support system required durable stability for three reasons:

- Sections of the building had to remain between +50-degrees and to -40-degrees for processing
- Pipelines carried ammonia, a key element in refrigeration, but one that can be hazardous if a line ruptures
- The roof had a two-on-12 slope. Adding complexity to the job were gas pipelines, electrical lines, glycol lines (also for refrigeration), and ACHR ductwork

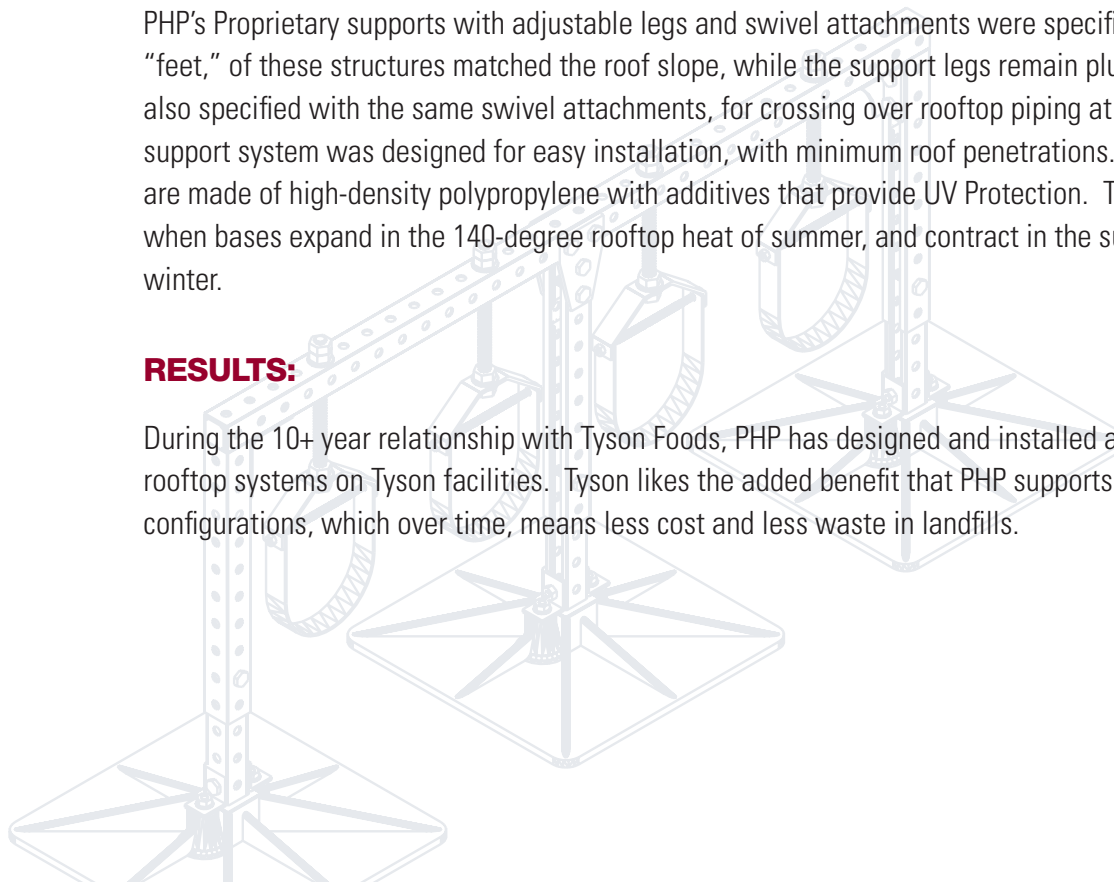
SOLUTION:

The PHP engineers designed a free, detailed rooftop support plan using CAD drawings to pinpoint the location of each support. The plan illustrated each support, spaced at 10-foot intervals throughout the 4,800-foot job, enabling Tyson engineers to see the entire system before the bid process began.

PHP's Proprietary supports with adjustable legs and swivel attachments were specified because the bases, or "feet," of these structures matched the roof slope, while the support legs remain plumb. Crossover parts were also specified with the same swivel attachments, for crossing over rooftop piping at intersections. The PHP support system was designed for easy installation, with minimum roof penetrations. PHP pipe support bases are made of high-density polypropylene with additives that provide UV Protection. This reduces deterioration when bases expand in the 140-degree rooftop heat of summer, and contract in the sub-freezing temperatures of winter.

RESULTS:

During the 10+ year relationship with Tyson Foods, PHP has designed and installed approximately 25% of all rooftop systems on Tyson facilities. Tyson likes the added benefit that PHP supports are reusable in a variety of configurations, which over time, means less cost and less waste in landfills.



TYSON FOODS

Noel, Missouri
April 17, 2011



"Our biggest financial consideration in using portable pipe hangers is that permanent, non-adjustable pipe support systems cause damage to roofs. By the time we finish re-roofing a 0-slope roof, because of insulation and other roofing components, that roof might have spots where the slope is six-on-12. With the PHP system we can readjust those supports and re-use them. PHP goes above and beyond to build it right."



- Bill Shultz,
Engineer Tyson Foods

