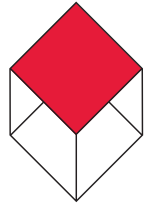


Project Profile



Bando USA

Manufacturing company decides to stop using bandage approach to fixing roof leaks.

Problem

Bando USA's standing seam metal roof had been leaking and causing production problems since it was constructed in 1988. Extensive repairs were made over the years by stripping in horizontal lap seams and flashing transitions. These repairs had varied degrees of success.



Bando USA
Bowling Green, Kentucky

Bando USA manufactures v-belts, timing belts, fan belts and power transmission belts for automotive and industrial equipment. Advanced technology, precise manufacturing methods and an unwavering dedication to zero-defect quality set Bando USA apart from traditional belt makers. They can't afford distractions from a leaking roof.

Solution

The surface of the metal roof was made flat by installing miter-cut "fill" insulation strips and then a continuous overlay of insulation. A white, reinforced thermoplastic membrane was then applied and mechanically fastened to the metal roof. The thermoplastic membrane was joined to itself by hot air welding, eliminating the possibility of leaks at the seams, which were so troublesome for 15 years.



Problem



Solution



Flexible membranes.

The flexibility and formability of thermoplastic membranes can eliminate troublesome pitch pans. The white color of the thermoplastic membrane reduces solar loading and saves energy in the air conditioned office.

Exterior gutters.

The exterior gutter was replaced to prevent water from backing up under the metal panel roof during very heavy rain.

Interior gutters.

Interior gutters at walls or valley lines of metal roof systems are often problematic. At the office front parapet, the walls were faced with plywood, roofing membrane was used to line the gutter and wrap the wall, and an attractive pre-finished metal cap finished the detail.

Flashings.

The base flashing at the main plant wall (above & below right), was too low and was buckling, holding water and leaking. The panels were cut, a new curb installed, and counterflashing "Z" metal was installed to achieve proper (8") flashing height.

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