

BACON OVENS AT MEAT PROCESSING PLANT ILLINOIS

December 2016

This is a meat processing plant generating bacon products. Two of four oven units consisting of a base unit and 35 feet of 16"-18" duct, all stainless steel were insulated. The internal temperature of the units is approximately **350°F (176°C)**. The units are exhausting hot oven air as part of an oil recapture process allowing for water to escape in the hot air exhaust. The insulation will minimize condensation occurring inside the exhaust assembly. The objective is to bring the surface temperatures down to a maximum of **120°F (49°C)**. This will not only save energy, meet OSHA requirements for worker safety but also make for a better working environment. A system of HPC® COATING was applied first to reduce the surface temperature down followed by a coat of MOIST METAL GRIP® and 2 additional coats of RUST GRIP® to protect the HPC® COATING from daily cleaning with a caustic solution.

Preparing for the first coat of HPC® COATING by cleaning with citrus cleaner and water and ensuring a clean, dry and sound substrate ready to accept the coating system.



At the time of application the temperature of the exhaust gasses during operation were **334°F (168°C).**



Full application of HPC® COATING 500 mils / 13 mm / 1/2 " DFT.



Surface temperature reduced to approximately 85°F (29°C). This not only saves energy, meets OSHA requirements for worker safety but also makes for a better working environment.



The HPC was sealed with a primer coat of **MOIST METAL GRIP®** which was allowed to cure for several days because of the holiday schedules and to insure full curing. The primer coat was then lightly sanded and 2 coats of **RUST GRIP®** were applied as the finish coat.



PROJECT CREDITS:

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