



Project Description: Retort Addition

The Retort Addition and Renovation of the south section of the plant started June 2004 and attained substantial completion Spring 2005. This project included three phases; Basket Storage, Retail, and Retort Addition. Phases 1 and 2 included the installation of a new roof structure above the existing plant. Upon completion of the new roof, demolition of the old roof structures began and the process of finishing the phases commenced. Each phase began by installing Arcoplast Wall Liners that are 8' wide x 17'-6" high. The ceiling is an Arcoplast Concealed Hanger Walk-On System consisting of 8' wide panels with lengths of both 32' and 40'. Phase 3 is comprised of an addition to accommodate forty new steam powered retorts in addition to the twenty existing retorts that were under operation at the start of the project. The building was constructed in an existing one-way street that ran parallel to the existing plant. The Retort Addition dimensions are 11'-4" wide, 194'-8" long and 23' high. The building is constructed with 12" concrete masonry unit walls, open web steel roof joists, and a 60 mil EPDM insulated and ballasted roof. The lower Retort pit floor includes a formed concrete trench drain 36" wide by 166'-6" long which was placed to contain the water discharged from the retorts. A structural steel mezzanine was then installed 44" above finished floor. The mezzanine allows the retort operators to access the top of the retorts for loading and unloading the retort baskets with an overhead crane which is installed on the bottom of roof joists. The ventilation includes eight power roof ventilators with a combined rating of 150,768 CFM, seven summer supply fans with a combined rating of 125,125 CFM and six winter supply fans with a combined rating of 33,780 CFM. Guth lighting fixtures were chosen because of their sanitary design.

Tony Downs Foods originated in southwestern Minnesota in 1947, and has been producing premium poultry products for nearly 60 years.