

Reactivating Dried Solvent-Based Adhesives on Metal with Model 4765 High Density Pyropanel Arrays

Application

A door manufacturer reactivating dried solvent-based adhesive on assembled metal doors prior to final lamination.

Problem

Solvent-Based Adhesive - The solvent-based adhesive must be reactivated after drying on .025 inch (.6 mm) thick, 42 inch (1067 mm) wide cold rolled steel doors.

Line Speed - Line speed of 35 feet (11 meters) per minute required.

Solution

Heat - Two Model 4765-16-48 High Density Pyropanel Arrays were used to heat the metal doors from both sides and reactivate the dried solvent-based adhesive prior to lamination.

Power Control - The High Density Pyropanel Arrays were controlled by a Phase Angle SCR Power Control System.

Benefits

Speed - The solvent-based adhesive was reactivated and the required line speed was maintained using the Model 4765 High Density Pyropanel Array.

Quality - The Pyropanel Array provided uniform heating of the solvent-based adhesive for a consistently high-quality laminate.

System Integration - The SCR Power Control System automatically regulated the Pyropanel Array according to process conditions, keeping energy consumption to the minimum required.