

# Drying Water-Based Primer on Metal with Model 54775 High Density Pyrospans

## Application

A manufacturer of roof deck and wall module panels drying water-based primer on aluminum, cold-rolled steel and galvanized steel.

## Problem

**Stock Differences** - The stock, coated on both sides, has a variety of materials, widths and thicknesses.

**Slow Line Speed** - Existing convection oven significantly slowed line speed below the required speed of 300 feet (91 meters) per minute for a material thickness of .020 inch (.5 mm) was required.

**Poor Quality** - The existing convection oven did not consistently produce a quality end product.

**Excessive Cost** - The existing solvent-based coating was too costly to use due to expenditures for Environmental Protection Agency (EPA) compliance.

**Limited Floor Space** - Floor space used by the existing convection oven was need for other processes.

**Excessive Energy Consumption** - Excessive energy was consumed by the existing convection oven.

## Solution

**Heat** - Six Model 54775 High Density Pyrospans used infrared heat to dry the water based primer.

**Vertical Installation** - Using vertical burn lamps, the Pyrospans were installed vertically in an existing line.

## Benefits

**Decreased Cost** - By switching from a solvent-based to a water-based primer, the manufacturer significantly reduced expenditures for EPA compliance.

**Increased Production Output** - By drying the water-based primer with the Model 54775 High Density Pyrospans, the required line speeds were achieved and production output increased by over 60 percent.

**Increased Quality** - The uniform heating supplied by the High Density Pyrospans consistently produced a quality end product on the variety of stocks used by the manufacturer.

**Regained Floor Space** - The vertical installation of the High Density Pyrospans allowed the manufacturer to reclaim the floor space previously used by the convection oven.