



# Sonic Air “Stamps” Out Corrosion

## Customer:

Since 1989, Signs and Blanks, Inc., has been dedicated to supplying signage to a broad range of markets. Based in Akron, Ohio, their areas of expertise include signs and accessories for Regulatory, Traffic Control, Safety, School and Utility markets. With all of their signs being produced from the highest quality products, they pride themselves on providing the finest in quality and service.



## Application:

Signs and Blanks required a Blower system to remove and dry tap water, at 120°F, from the tops and bottoms of their **48”wide** continuous aluminum strip, traveling at **150FPM**, prior to coiling.

## Background:

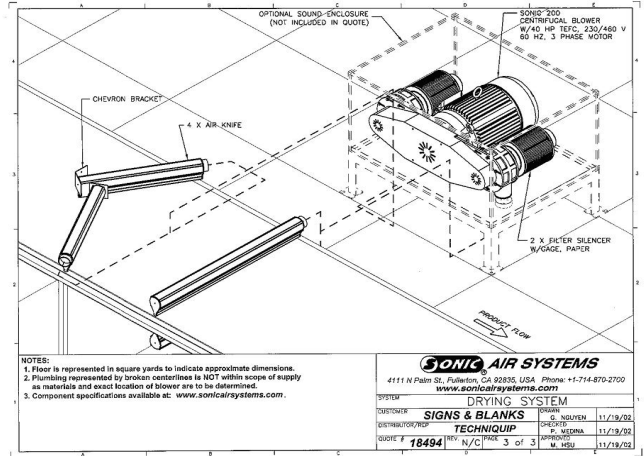
With their evolved equipment, Signs and Blanks have the ability to generate up to 18,000 blanks per hour. With this type of throughput rate, the strip must be absolutely dry in order to ensure product standards, while preventing moisture issues.

Their prior attempts included the use of an older, out-dated, blower system. This system also included home-made air knives, which were essentially round tubes with slots milled into them. But the problem with the older Blower system was that it did not produce the needed velocity to “strip” the water.

The customer then contacted Jack Ambrose of Techniquip, Sonic’s sales Rep in Ohio, to see if we could offer a cost effective solution.

## Goal:

The customer’s goal was to prevent discoloration and corrosion while not compromising their throughput rate, prior to coiling the sheets. With the use of the older system, the strip just wasn’t consistently dry enough which eventually led to rejects due to corrosion, and compromised their quality and service.



## The Sonic “Engineered” Solution:

Sonic Air designed a complete stand alone air knife system consisting of (4) Sonic XE Air Knives powered by a Sonic 200 40hp Centrifugal Blower. The first two air knives were installed in a chevron configuration pointing opposed to the product flow direction, to “plough” the bulk water to the sides. The other two air knives were positioned top and bottom and at 90 degrees to the product flow. This secondary pass ensured complete drying of the aluminum strip.

Techniquip followed up with an after installation call to find the customer extremely happy with the performance of the Sonic system. The installation **proved** to be a valuable investment and the company’s issues with corrosion and quality were eliminated.

