

flatter METAL, better ROOF, stronger WARRANTY


Leveltek's patented stretch-leveling process helps many in the metal construction industry achieve superior flatness, improve their finished roof and strengthen their product warranty.

Would you also like to reduce the occurrence of oil-canning?

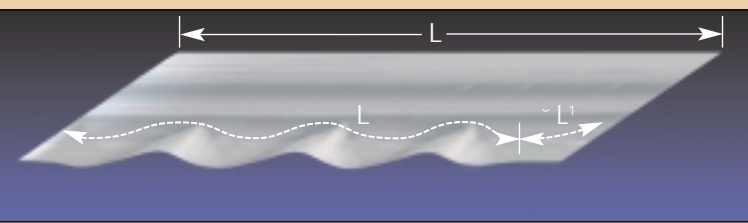
The Leveltek process can help.

ISO 9002
CERTIFIED

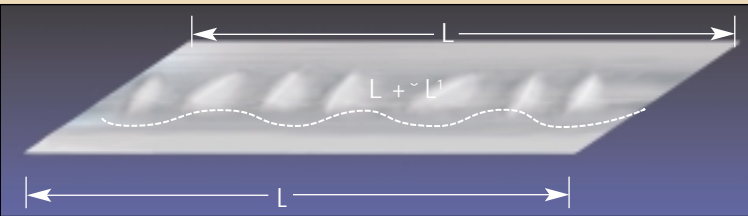
MSCI
MEMBER

Leveltek
PROCESSING LLC
STRETCHING METALS
WITH NEW TECHNOLOGY 

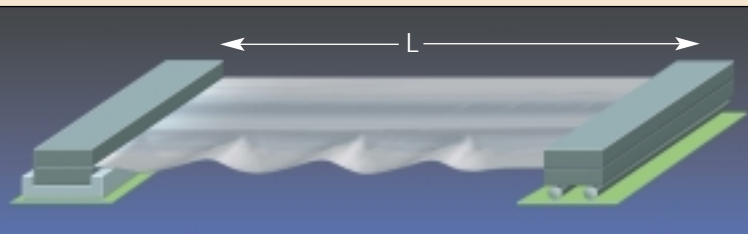
the LEVELTEK process



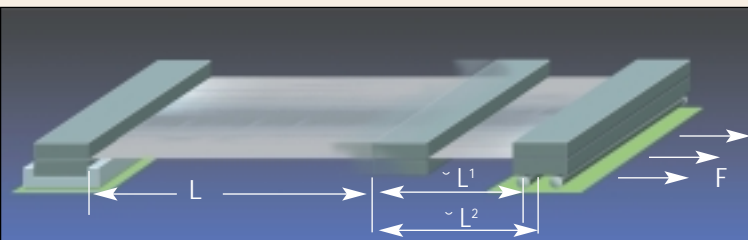
The flat portion of the strip is shown as length L , and the excess length present in the wavy edge is shown as $\sim L^1$.



The excess length $\sim L^1$, shown here as a center buckle, can occur anywhere within the strip.



The same increment of wavy edge strip is clamped between two sets of grippers, one set fixed and the other moveable.



The stretching force F overcomes the yield strength of the metal to extend the moveable grippers away from the fixed grippers to permanently elongate the entire strip to $L + \sim L^2$. The total length increase, $\sim L^2$, must always exceed the original excess length $\sim L^1$.

Leveltek offers a patented stretcher leveling technique that improves the flatness of coils of specialty metals, including:

- STAINLESS STEEL
- TITANIUM
- ALUMINUM
- BRASS
- COPPER
- HIGH-TEMPERATURE ALLOYS
- GALVANIZED STEEL

Before our technology came to the market in 1993, other methods of correcting flatness were unable to handle thick or high-strength materials. LEVELTEK's process can stretch metal with the force of 1.25 million pounds, which allows for flattening of metals that are more than 1/4" thick or with yields in excess of 100,000 psi.

The LEVELTEK stretcher leveling technique corrects the flatness in materials that is not commercially acceptable, turning sub-standard products into prime products. We can also take materials that are commercially acceptable and improve them to satisfy the most difficult requirements.

the PROBLEM

Most flatness or shape defects occur because of length variations which develop during the rolling process. Edgewaves occur when the strip is rolled with edges longer than the center, for example, and center buckle happens when a strip has a longer center than edges.

the SOLUTION

Leveltek's process is simple. We uncoil, stretch, level and recoil. Through a patented non-marking process that grips and stretches the unrolled coil, our equipment eliminates shape defects such as edgewaves, center buckle, quarter buckle, crossbow and mandrel breaks.

the BENEFITS

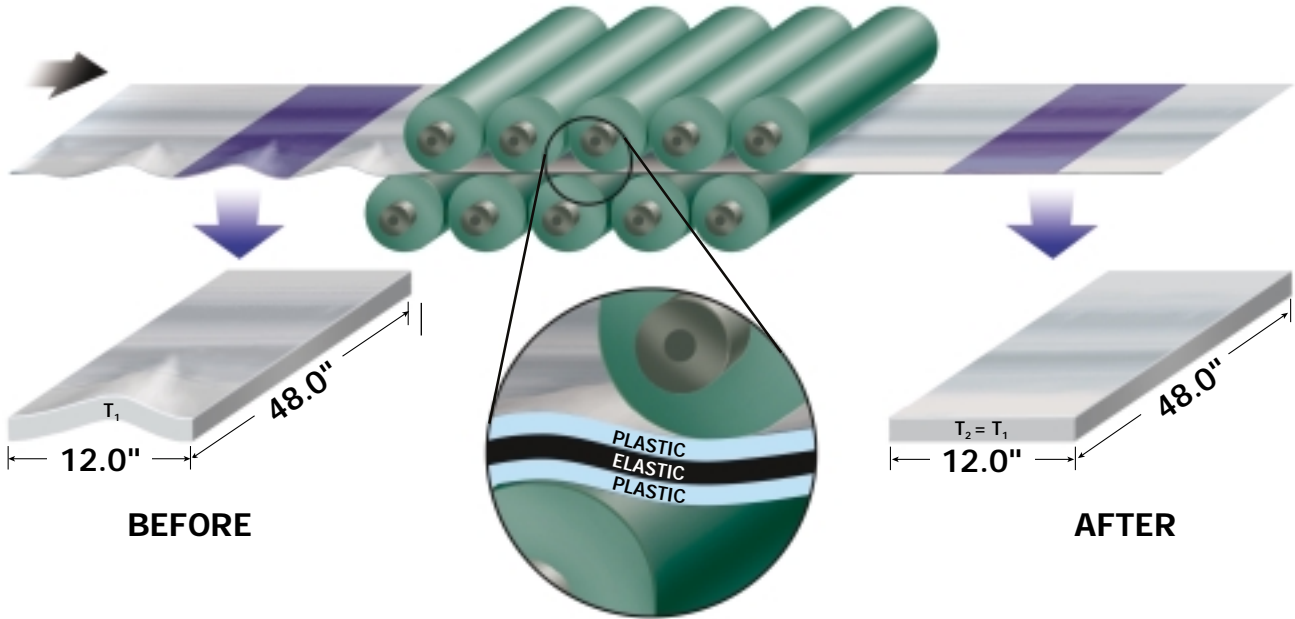
With Leveltek, there is no marking or scratching of the stretched metal surface. The only measurable change to the coil is some width reduction and lengthening of the material.

With our stretcher leveling technique, you'll get these benefits:

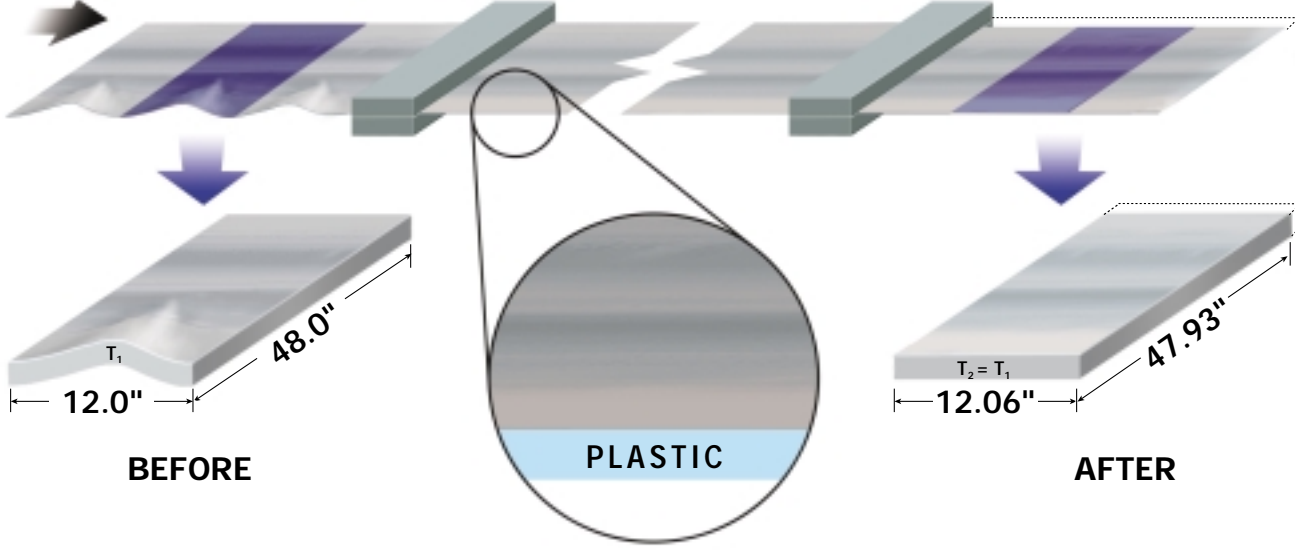
- ALLOWS YOU TO USE OR SELL HIGH-QUALITY MATERIAL THAT WOULD OTHERWISE END UP AS SCRAP.
- CAN ACCOMMODATE A WIDE RANGE OF COIL WIDTHS, GAUGES AND WEIGHTS.
- PRODUCES NO SCRAP MATERIAL WHATSOEVER, DUE TO THREADING.
- QUALIFIES YOUR NORMAL PRODUCTS FOR THE MOST DIFFICULT APPLICATIONS.

Technology Comparison

ROLLER LEVELER



STRETCHER LEVELER



Note: If significant width reduction has not occurred, as in the Roller Leveler example, permanent correction of length disparities has not occurred.

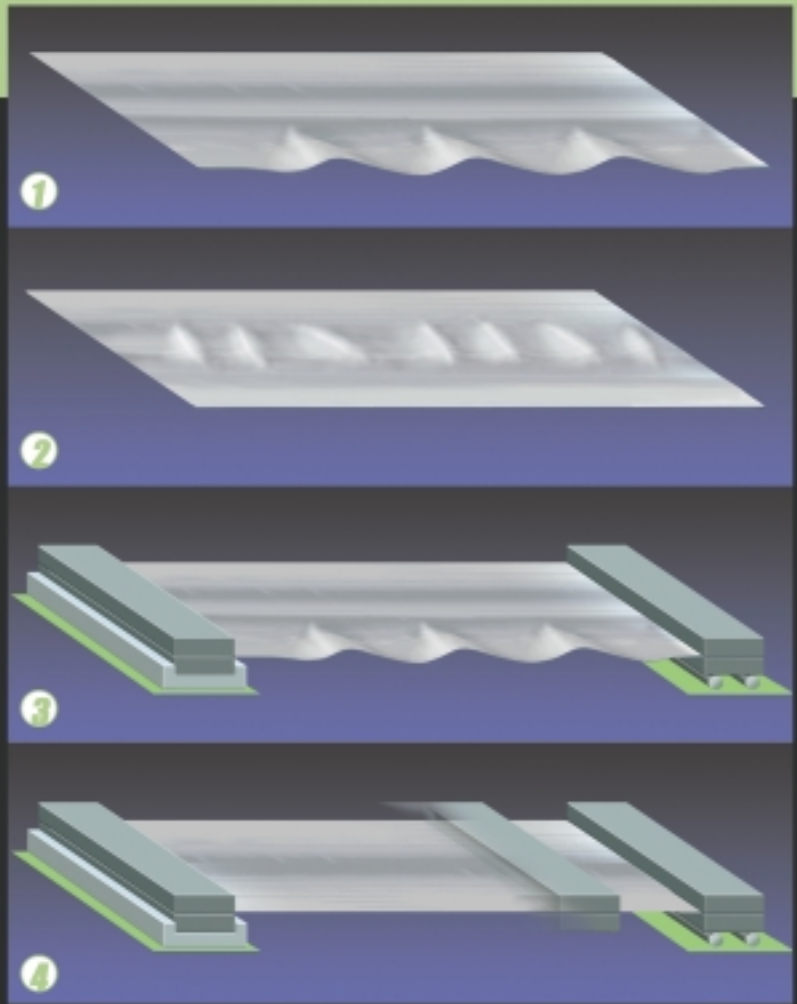
Learn More

In North America, Leveltek uses its patented stretch leveling system to flatten specialty metal coils on a toll processing basis.

www.leveltek.com

Outside North America, find out how our stretch leveling technology can be installed at your facility.

www.leveltekinternational.com



The Leveltek Process Four Steps to Perfection

Perfect your roofing operation,
contact Nate Fairfield at (304) 232-8530
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Leveltek
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STRETCHING METALS
WITH NEW TECHNOLOGY

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