



Serving the Seamless Gutter Industry Since 1972

Company Memo

Date: July 12, 2005

To: Bill Frazier

From: Dalyn Walters

Subject: Re: Tiger Striping

I have reviewed the major supplier of aluminum gutter and trim coil and have found none that warranty uncontrollable atmospheric deposits, also known as "tiger striping." I have reviewed numerous government and industry guideline for maintenance of atmospheric deposition on architectural sheet metal and have found a uniform awareness of the effects atmospheric pollutants have on most sheet metal products. In fact every major sheet metal painter expressly requires regular cleaning to prevent the "normal build-up of soil deposits and oxide accumulations." After a review of the major suppliers of gutter coil with respect to the issue of "tiger striping" there is no manufacturer in our industry that can or does warranty the effects of "atmospheric conditions."

Example Warranty Statement:

"This warranty does not include installation defects occurring as a result of installation. It covers only specific manufacturing defects described herein and excludes any other damages or material failures including, but not limited to, failure to provide normal maintenance and cleaning; damage resulting from accident or casualty, acts of God, vandalism or wind-blow objects; or damages caused by corrosion or aggressive atmospheres such as those contaminated with chemical fumes or salt spray, either directly applied or in the atmosphere. Uniform fading and color change are not covered by this warranty, since normal weathering and the normal aging process will cause any colored surface to fade, darken, chalk or acquire a surface accumulation of dirt and stains. The severity of these conditions depends on air quality, the geographic location of your property and other local conditions..."

Paint warranty cards of the major gutter coil manufacturers are available on the web:

<http://www.norandex.com/images/Warranty-Raincarrier.pdf>

<http://www.englertinc.com/phase-2/gutter/gut-warranty.htm>

Web References:

<http://www.sapphirealuminium.com.au/anodise.htm>

<http://w3.gsa.gov/web/p/hftp.nsf/0/28db7a6714710f88852565c50054b551?OpenDocument>

http://www.npl.co.uk/ncs/docs/atmospheric_corrosion.pdf

<http://www.aaamsa.com/Documents/publications/publication10a.htm>

<http://www.corrosionlab.com>



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CONDENSED PAINT AND METAL SPECIFICATIONS

Listed below are the specifications on the paint, metal preparation, and finished coating for aluminum gutter coil.

1. The Aluminum used is alloy 3105 H-14 which meets the specifications set forth in the "Aluminum Standards and Data 1988" published by the Aluminum Association. The gauge of the aluminum for the gutter may be .027 or $.032 \pm .002$. Other gauges are used when specified.
2. The surface of the aluminum sheet is thoroughly cleaned and dried to remove impurities and coated with Betz Metchem Permatreat 1500/3000 non-cyanide chromate conversion coating.
3. A thermo setting polyester enamel is roller coated and baked at high temperatures for the outside coating. The reverse side of the coil or the wash coat, is also a thermo setting polyester enamel applied to help resist corrosion.
4. The color range used in applying the coating is $\pm .50$ units - Hunter Lab Color Meter.
5. The thickness range of the applied finish is .80 mils. $\pm .10$ mils. (.7 - .9).
6. The physical test used on our coated - panels includes:
 - a. 180° - 2T tape, Scotch Brand #610
 - b. Reverse Impact = 2 lbs./mil. (Positive) tape, Scotch Brand #610
 - c. Pencil hardness = F minimum, Eagle Turquoise Brand
 - d. M.E.K. 100 Double rubs using Cheesecloth - mesh size 28 X 24.

MORE DETAILED INFORMATION AVAILABLE UPON REQUEST



50 Year Paint Warranty

Prorated, Limited

Senox Corporation (hereafter referred to as **Senox**) warrants to the original purchaser of all **Senox** painted aluminum gutter products that said products will be free of painting defects when properly formed and installed. This warranty becomes effective from the date of the original installation of the products and is for a period of 50 years. Should, during the warranty period, the **Senox** painted aluminum gutter products be found to have painting defects, **Senox** will, upon notification and validation of the complaint by physical inspection, either repair, refinish, or replace, at its option, the defective products, subject to the following limitations and conditions.

All claims must be submitted in writing to **Senox** promptly after discovery of the claimed defect and during the warranty period. Claims should include the name, address and phone number of the purchaser, date of purchase, name of the contractor and proof of purchase. All claims should be mailed to: Senox Corporation, Attn.: warranty dept., 2306-B Howard Lane, Austin, TX 78728.

Senox will assume 100% of the cost of refinishing or replacement of the defective material only during the first year. **Senox's** liability shall decline by 25% per annum through the fourth year and 1/2% per annum thereafter through the fiftieth year. **Senox's** liability shall not decline to less than 1% of the cost of refinishing or replacement during the 50th year. The basis for computing the cost shall be retail prices at the time of refinishing or replacement. The owner's share of the refinishing or replacement cost, if any, will be computed by **Senox** utilizing the pro-rata terms and provisions of this warranty. An invoice for such amount will be prepared and sent to the owner, in duplicate. The owner, by signing one copy of the invoice and returning it to **Senox's** Warranty Division



along with a cashier's check for the amount shown thereon, will authorize **Senox** to proceed. **Senox's** obligation under this warranty shall at no time exceed the original purchase price of the products at the time of installation.

This warranty shall remain in effect only if the painted aluminum gutter products are cleaned on an annual basis in accordance with the instructions included with this certificate. The guarantee shall be null and void if harmful cleaning compounds are used resulting in damage to the finish that subsequently cause a defect.

This warranty covers only genuine **Senox** painted aluminum gutter products with defects to the original factory finish that are attributable to the painting process such as: cracking, peeling, or chipping. Defects not covered are those that result from normal weathering, product handling before or during installation, faulty installation, uses other than the designed function, any change or distortion of the original attaching structure, or any other thing beyond **Senox's** control such as: accidental damage, fire, ice, hail, lighting, winds, tornadoes, hurricanes, earthquakes, acts of God, vandalism, war, chemicals in the air, water or ground, fungus, mildew, salt, lack of yearly cleaning or improper cleaning. This warranty is valid only if genuine painted aluminum gutter products supplied by **Senox** are used and shall be void if painted aluminum gutter products not supplied by **Senox** are used which cause defects to occur in the paint of the **Senox** painted aluminum gutter products.

Senox maintains the right to change or discontinue any of its products without notice. If the products covered by this warranty are no longer available at the time a claim is made, **Senox** retains the right to substitute a product of similar or greater quality or value.

Senox reserves the right to withdraw this warranty from the market at any time without notice. Any and all warranties in effect at the time of removal will not be



affected by the withdrawal and will remain in effect until their expiration.

Senox cannot and will not be liable for a breach of any written or oral express warranties such as those given you by a **Senox** dealer, franchise, or applicator of any **Senox** painted aluminum gutter products. **Senox** is liable for any guaranty or warranty for merchantability and fitness for any particular purpose for a period of only one year from the date of installation. **Senox** shall not be liable for injury to persons or damages to building contents, or for incidental, special or consequential damages for breach of any written or implied warranty on all painted aluminum gutter products and workmanship. Your exclusive remedy shall be repair, refinishing, or replacement solely at **Senox's** option and only on the terms stated in this certificate. Some states do not allow limitations on how long an implied warranty lasts or the exclusion of limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.



Care and Maintenance:

Instructions . . .

The following simple cleaning procedures should be performed at least once a year or more often if necessary.

General Cleaning . . .

For surface soil and stains, such as those resulting from industrial fallout, tree sap, insecticides, or chimney fumes, use ordinary nonabrasive household detergent.

The solution should be applied to the soiled surface by means of a soft rag, sponge or soft bristle brush with a gentle rubbing action. **Do not rub vigorously so as to create glossy areas over the satin finish.** Soft bristle brushes equipped with long extension handles may be used to reach some of the higher areas.

It is important that immediately following all washing operations, the entire surface be thoroughly rinsed with fresh water from a garden hose.

Stubborn Stains . . .

If stubborn stains are encountered, use a heavy-duty cleaner such as "Fantastik." Heavy soil deposits may not be removable in one application and may require repeated cleaning over some length of time. **Do not use cleaners containing abrasive particles, ammonia, solvents or paint removers for cleaning. These materials may soften or remove the finish.**

Climatic Problems . . .

Climates vary considerably from one locality to the next. In some areas, mildew may be a problem. It appears as black spots on the surface dirt and is usually detected first on the undersides of the rain gutter. For removal, prepare the solution below and apply as outlined above.

1/3 cup detergent (Tide for example)
2/3 cup Trisodium Phosphate (Soilax for example)
1 quart 5% Sodium Hypochlorate solution (Clorox for example)
3 quarts water

Caution: Greater concentrations may cause damage to the finish.

Warranty Information:

Installation Date: _____

Issued To: _____

Property Address: _____

City: _____ State: ___ Zip: _____

Phone: _____

Issued By: _____

Address: _____

City: _____ State: ___ Zip: _____

Phone: _____

Gutter Color: _____

Gutter Style: _____

Downspout Style: _____



Senox

Painted Aluminum Gutter Products

50 Year Paint Warranty

Care and Maintenance Guide



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