



## Green Building Specification Guide

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Metal-Era is dedicated to providing roof edges that are unsurpassed in quality. Metal-Era also prides itself on remaining current with industry issues and concerns, and educating our customers on these issues.

An increasingly important issue is that of the green building movement. A green building is a structure that is designed, constructed, renovated, operated and demolished with minimal environmental impact.

Many federal, state and municipal organizations either require or provide incentives for green building projects. This document is intended to assist architects, specifiers, and other roofing professionals in understanding how Metal-Era has responded to this movement. This document is intended as a guide only, and detailed questions regarding specific laws, regulations and incentive programs should be referred to the appropriate agency.

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### Life Cycle Analysis:

#### Background

Life cycle analysis is the calculation of short and long term costs from purchase to the ultimate recycle of an item, in this case, a building.

#### Considerations

A number of variables need to be taken into consideration when calculating the life cycle of a building. A few of them include:

- Frequency of replacement
- Maintenance costs
- Costs avoided through use of alternate materials
- Long-term costs
  - Installation
  - Energy
  - Leaks & repairs

#### Metal-Era Solution

Metal-Era has developed a 39 Year Anchor-Tite Sustainable Warranty that takes a life cycle analysis approach. This is to ensure that small, short-term

savings don't mean large, long-term losses.

The average life of a roof is 15-20 years, causing roof edges to be replaced at this time. Metal-Era's extruded aluminum anchor bar may be reused once the re-roofing is done, and this warranty provides a free replacement cover after 15 years.

The entire warranty lasts for 39 years, which is the life of a building according to IRS depreciation laws, thereby protecting this large investment for the life of the building. Remember roof replacement is not built into IRS depreciation calculations.

Other features include:

- Potential savings of up to 200% on your roof edge over the life of your building.
- Time value money: purchase tomorrow's fascia cover with today's dollars.
- Ensures there are no worries about additional maintenance expenses for the roof edge.

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### Cool Roofing:

#### Background

The temperature of a city is usually several degrees hotter than the surrounding countryside due to hot spots from roofs, parking lots and roads. Cool roofing uses light colored roofs, which reflects heat rather than absorbing the heat like a dark colored roof.

#### Metal-Era Solution

Many of our private label partners carry roofs that meet cool roofing requirements, and we've specially designed

our roof edges to be the perfect accompaniment to these membranes. The energy savings of cool roof systems is evident in the heating and cooling bills over the life of the building.

Over 30 of our paint finishes are Energy Star Compliant, this includes both standard and custom colors. Please contact Metal-Era for specific SR and emittance values.

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**LEED:****Background**

LEED™ (Leadership in Energy & Environmental Design) is a rating system created by the US Green Building Council for environmental performance using a “whole building” perspective. This rating system applies only to buildings, not individual products.

**Considerations**

- Many city, county and state governments have building codes that incorporate the LEED system.
- An increasing number of buildings are LEED certified
- A growing number of rebate programs and tax incentives have been created to encourage using this system

**Metal-Era Solution**

Metal-Era’s 39 Year Anchor-Tite Sustainable Warranty may fit into Credits 3.1 and 3.2 (Resource Reuse)

because the anchor bar may be reused. You may also be eligible for Credit 7.2 (Heat Island Effects) because some of our paint finishes are Energy Star Compliant. Our galvanized steel and 5005 aluminum contains 25% of recycled or scrap material and our 3003 aluminum contains 50%. This may help gain Credits 4.1 and 4.2 for Recycled Content.

Metal-Era’s corporate headquarters and manufacturing plant is located in Waukesha, WI. Building projects that are located within a 500 mile radius may be eligible for Credits 5.1 and 5.2 (Regional Materials).

For more information on how our products fit into the LEED rating system, please refer to *Metal-Era’s LEED Specification Guide*.

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**Green & Sustainable Building:****Background**

Green building involves structures that are designed, constructed, renovated, operated and demolished with minimal environmental impact. Likewise, sustainable building refers to product solutions that can conserve, recycle and even help renew natural resources over time.

**Considerations**

Key features to be evaluated when considering the “greenness” of a project include the site, water and energy usage, materials and resources used and the indoor environmental quality.

Sustainability is often achieved in one or more of the following ways:

- Use of recycled or reused materials
- Use of materials that are made of recycled materials or can be recycled in the future
- Through extended service life
- By promoting the more efficient use of energy and other natural resources
- By renewing natural resources.

Sustainable Green Buildings are growing in popularity and prominence, due in large part to the fact that they exhibit high levels of economic and engineering performance, saving financial resources over the

building’s lifetime. Architectural schools are offering more and more classes on green building, and there are more continuing education opportunities available. In addition to many new laws and regulations, there are also a number of incentive programs, including tax incentives and rebates. All of this has made green building an extremely important topic in the industry.

**Metal-Era Solution**

Metal-Era’s 39 Year Anchor-Tite Sustainable Warranty goes a long way to fulfilling the various methods for creating a sustainable building. It encourages the reuse of our extruded aluminum anchor bar, which extends the life of the roof edge. It also promotes the use of our covers which are made of recycled and scrap materials. The availability of our extensive line of Cool Roof Color Finishes further supports the Green Movement by making more efficient use of materials and labor through our easy to install Anchor-Tite line.