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Matterhorn: The Last Roof You'll Ever Need

Together we have an opportunity to solve several big problems with just one change in how we think about the material we use to protect: the homes we build and remodel, the people who live in them, and the environment we share.

Albert Einstein is often quoted for having said, "Insanity is doing the same thing over and over again and expecting different results." And that is exactly what we have been doing by using asphalt shingles that need to be replaced over and over again. The consequences of using this petroleum-based material have been compounding, and it has reached a tipping point for both homeowners and our environment.

The Problem: Asphalt Shingles

te uction	Are now the number one consumer waste product United States—2.2 billic annually end up in our l
er Quality	Can leach heavy metals mercury), unnatural che and harmful bacteria in gardens and water sour
gy Usage	Absorbs solar radiation traps heat which can in- energy consumption, co and carbon emissions.
ormance	Depreciates quickly and can increase homeowne insurance costs related to increase in hail damage

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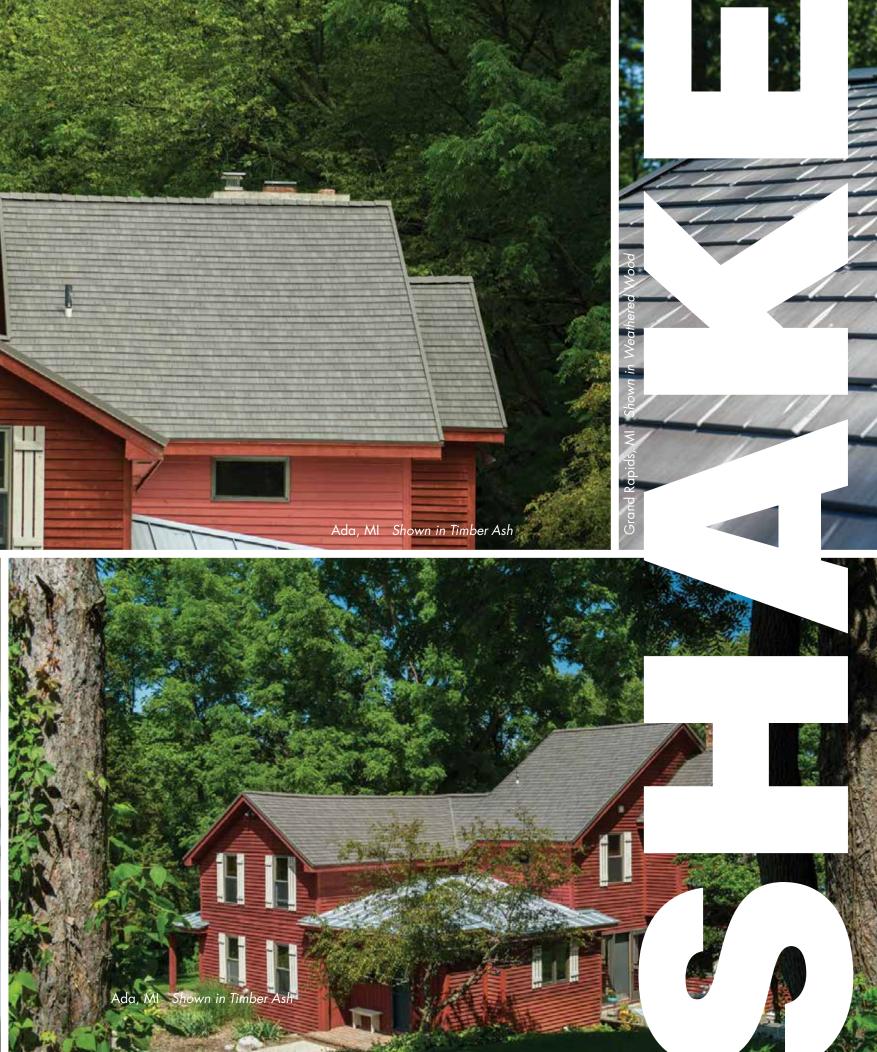
If every home in the U.S. had a Matterhorn® ENERGY STAR® Rated Metal Roof rather than an asphalt roof it would save Americans over \$2 billion in energy costs annually, reduce carbon emissions equal to taking over 2 million cars off the road, and help to protect our lakes and wells while reducing land fill waste.

The Solution: Matterhorn® Metal Roofing

e post- is in the on pounds andfills.	Can last 4x longer than an asphalt roof and can create zero landfill waste. Can be 100% recycled at the end of its life-cycle.
s (lead, micals, to our rces.	Can provide clean water run-off to promote personal and environmental health.
and crease osts,	Available in 24 ENERGY STAR® Rated colors that reflect up to 65% of solar radiation to significantly reduce energy consumption and carbon emissions.
ers o the	Supports industry-leading hail and fire ratings which can considerably reduce homeowner's insurance costs in most states.

Let's build a better future together.





ENGINEERING DETAILS

Our Shake panels were expertly curated by our Engineering team from pencil sketch to a finished, hyper realistic panel. This page highlights some of our most important design and engineering features.

Elevation Changes

Patent pending.

Shake panels include eight separate elevation changes to replicate the irregularity of real wood shakes.

Chiseling/Embossing

Chiseling and cracks are also used to mimic the organic look of real wood. Patent pending.



Patented Shadow Bead Fold

Placed where the shadow line would be on real wood shake when wood shrinks up and creates a gap. Patent pending.

EC² Clip & Indent

Matterhorn's high wind rating is thanks to our four point locking system secured with a patent pending concealed clip. A special stamped pocket on each panel allows for proper placement of the EC² clip. US Patent No. 9,097,0

Our Shake line captures cedar roof. Homeowners can choose a color variation that works with their home's exterior from a rich and darkly stained color to an iconic weathered silver-grey.

Water Channel

Specialized chiseled trough is at maximum height to allow constant water movemen away from the roof deck

Patent pending



















Shake







Cedar

mergy

Initial Solar Reflectivity: 0.37 Measured Initial Emissivity: 0.88

Panel Size: 22 1/8" x 47.5" Thickness: .016" (30 gauge)



Shorewood





Panel Size: 22 1/8" × 47.5" Thickness: .016" (30 gauge)



Weathered Wood

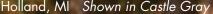
Panel Size: 22 1/8" x 47.5" Thickness: .016" (30 gauge) Initial Solar Reflectivity: 0.32 Measured Initial Emissivity: 0.88





Panel Size: 22 1/8" x 47.5" Thickness: .016" (30 gauge) Initial Solar Reflectivity: 0.26 Measured Initial Emissivity: 0.88





Hickory Corners, MI Shown in Cobalt

Hickory Corners, MI Shown in Cobalt





ENGINEERING DETAILS

Our Shake panels were expertly curated by our Engineering team from pencil sketch to a finished, hyper realistic panel. This page highlights some of our most important design and engineering features.

Elevation Changes

Slate panels include eight separate elevation changes to replicate th irregularity of real slate. Patent pending.

Chiseling/Embossing

Chiseling and cracks are also used to mimic the organic look of real slate. Patent pending.

Color

Our **Slate** offering includes five color options in blue-gray, green-gray, brown-green and two choices in gray; one light and one dark.

EC² Clip & Indent

Water Channel

Specialized chiseled trough is at maximum height to allow constant water movement away from the roof deck. Patent pending.

Matterhorn's high wind rating is thanks to our four point locking system secured with a patent pending concealed clip. A special stamped pocket on each panel allows for proper placement of the EC² clip.

US Patent No. 9,097,019.





















Mountain Sage

Initial Solar Reflectivity: 0.25 Measured Initial Emissivity: 0.87

Panel Size: 22 1/8" x 47.5" **Thickness:** .016" (30 gauge)

Castle Gray

Initial Solar Reflectivity: 0.23 Measured Initial Emissivity: 0.88





Panel Size: 22 1/8" x 47.5" Thickness: .016" (30 gauge)

Panel Size: 22 1/8" x 47.5" Thickness: .016" (30 gauge)



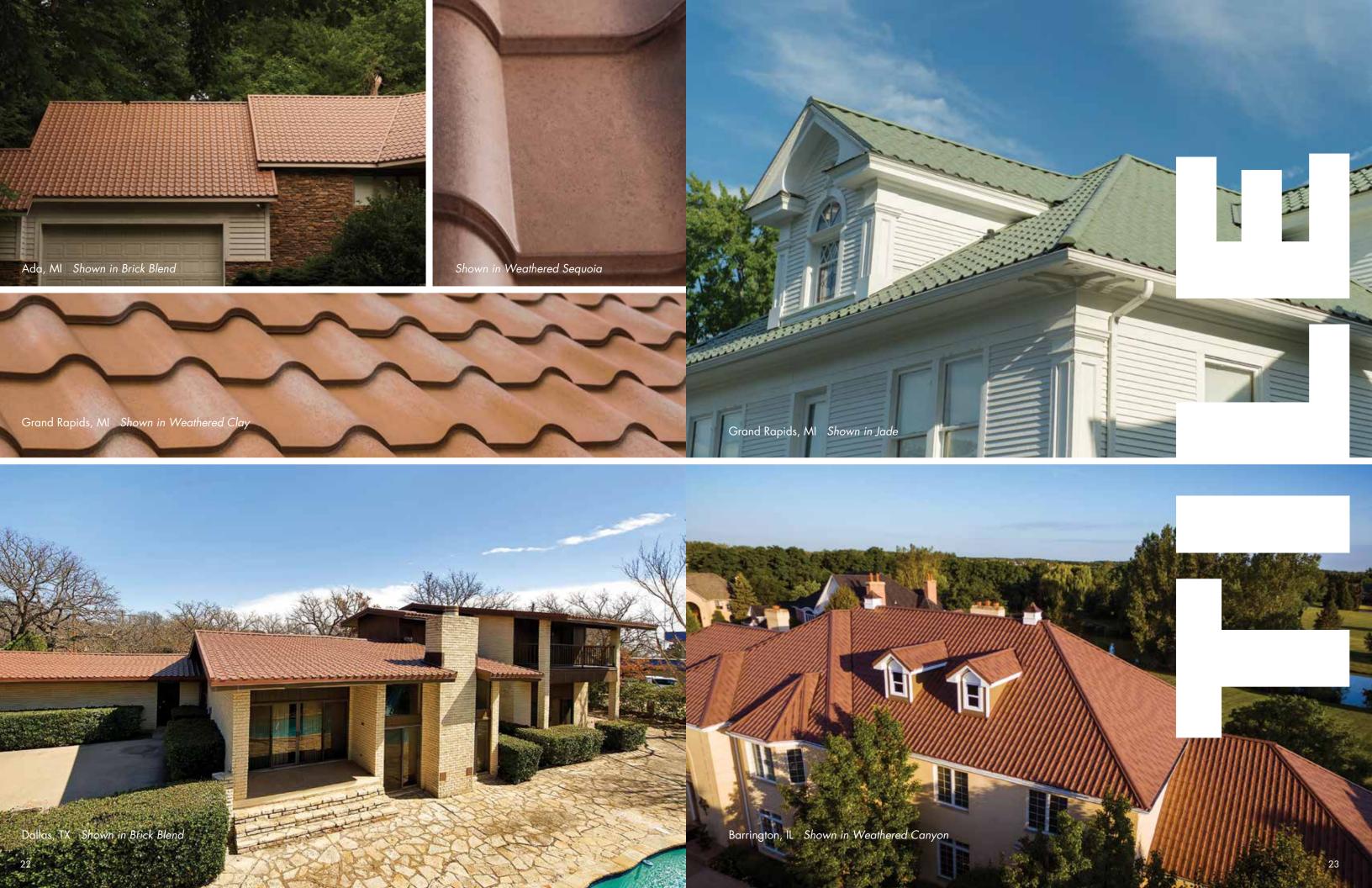
Panel Size: 22 1/8" x 47.5" Thickness: .016" (30 gauge) Initial Solar Reflectivity: 0.26 Measured Initial Emissivity: 0.88







Panel Size: 22 1/8" x 47.5" **Thickness:** .016" (30 gauge) Initial Solar Reflectivity: 0.06 Measured Initial Emissivity: 0.88 21



ENGINEERING DETAILS

Our Tile panels were expertly curated by our Engineering team from pencil sketch to a finished, hyper realistic panel. This page highlights some of our most important design and engineering features.

5/8" Reveal

Matterhorn's 5/8" reveal provides the character and depth that your home deserves.

Lightweight

Only 108 lbs./square for Tile; that's less than many shingle brands! In many cases a Matterhorn[®] Tile roof can be applied directly over existing shingles.

Color

Eight colors make up our **Tile** line. Traditional and contemporary colors come together for a hue that will complement any style home.



Concealed Fastening System

Attached with a tongue and groove fit

Tile isn't just for southwestern style homes anymore. Here a historical home, built in the late 1890s, looks stunning with the decidedly nontraditional roofing choice of Matterhorn[®] Tile in Jade.















Tile



Weathered Sequoia



Initial Solar Reflectivity: 0.28 Measured Initial Emissivity: 0.89 Panel Size: 20 5/8" x 48" Thickness: .019" (28 gauge)









Brick Blend



Initial Solar Reflectivity: 0.26 Measured Initial Emissivity: 0.89 **Panel Size:** 20 5/8" x 48" Thickness: .019" (28 gauge)



Weathered Canyon



Initial Solar Reflectivity: 0.25 Measured Initial Emissivity: 0.89 **Panel Size:** 20 5/8" x 48" Thickness: .019" (28 gauge)



Terracotta

Initial Solar Reflectivity: 0.32 Measured Initial Emissivity: 0.87 **Panel Size:** 20 5/8" x 48" Thickness: .019" (28 gauge)





Initial Solar Reflectivity: 0.29 Measured Initial Emissivity: 0.87 Panel Size: 20 5/8" x 48" Thickness: .019" (28 gauge)



Tuscan Stone



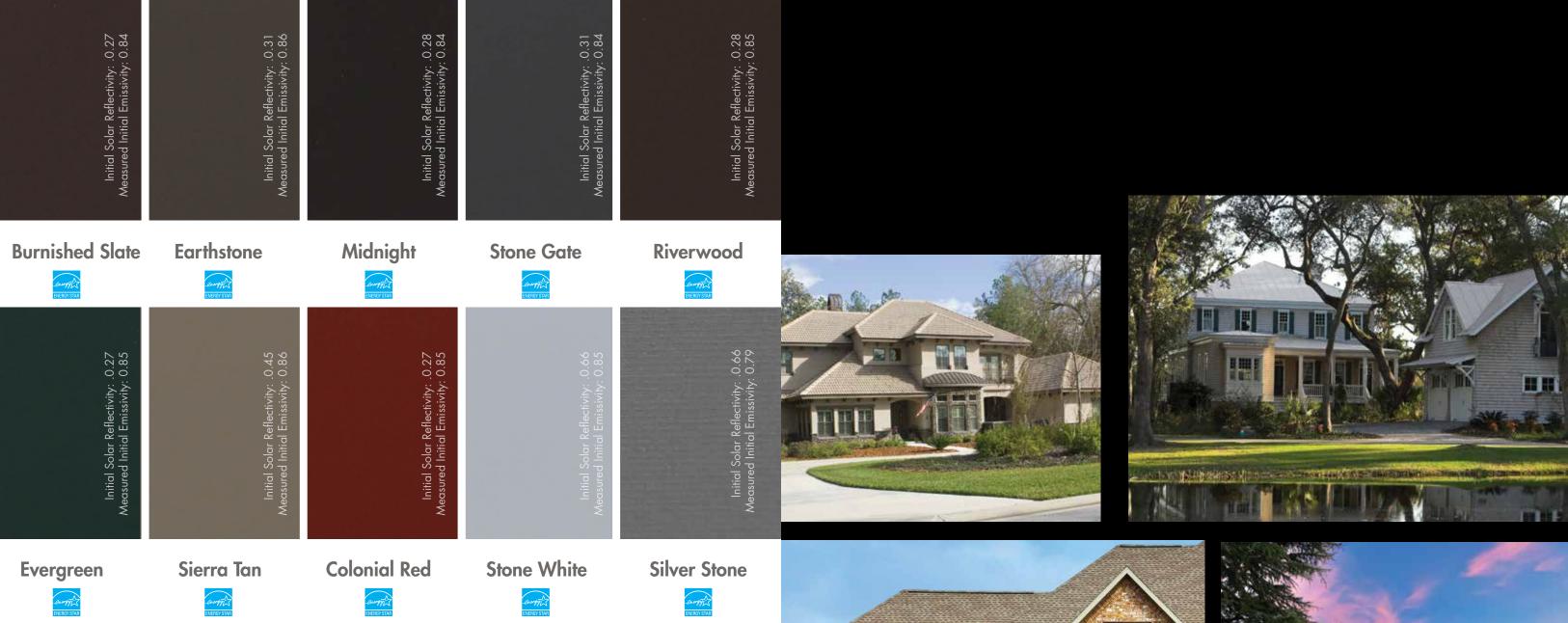
Initial Solar Reflectivity: 0.27 Measured Initial Emissivity: 0.89 Panel Size: 20 5/8" x 48" Thickness: .019" (28 gauge)





Initial Solar Reflectivity: 0.29 Measured Initial Emissivity: 0.89 Panel Size: 20 5/8" x 48" Thickness: .019" (28 gauge)





Matterhorn[®] **Boxed Staggered Standing Seam**

- Matterhorn's PVDF Tri-Pigment Reflective Technology[®] paint system offers the ultimate in reflectivity and fade protection.
- Painted on the back of each panel for exceptional protection.
- Thicker than most standing seam on the market at .0217" (26 gauge).

- All colors are ENERGY STAR® Rated.
- Staggered seam look essential to replicating the historic look of a metal roof.
- Color palette that blends well with the most popular roof colors on the market today.

Available in three size options:

- 6' long x 12" wide, 1.5" tall 10' long x 16" wide, 1.5" tall 12' long x 12" wide, 1.5" tall
- 32





Standing Seam

Performance

STRONGER THAN STEEL

Overview

Multiple layers of protective coating work in harmony to produce each Shake, Slate, Tile and Standing Seam Matterhorn® panel. The result is a metal roofing product that is quite literally, stronger than steel.

Tri-Pigment Reflective Technology®

Featuring a PVDF Paint System and ENERGY STAR® rated Cool Roof Technology.

Zinc Phosphate

a superior bond for the paint system.

Solid Painted Back Every surface is covered.

An additional anti-corrosive layer that provides

Thermally Deposited Anti-Corrosive G90 Coating

> DDS High-Performance Steel Alloy

Performance

EXTREME TESTING

Overview

Matterhorn® Metal Roofing has an industry leading warranty against fire, wind and hail. In fact, many home insurance companies offer a discount on your insurance premium for using qualified metal roofing products just like ours.

Fire Rating: **Class A**

Standard Used: ASTM E-108

Wind Rating: 130 MPH

Standard Used: AC166, UL 580, UL 1897

Standard Used: UL2218 (Class 4)

Hail Rating:

Class 4

We went beyond the most common testing standards and the result is a product so impermeable that we proudly offer a limited lifetime warranty.

Type of Test	Standard	Completed
Fire Classification	ASTM E-108 Class "A" Fire Rated *	\checkmark
Wind	AC166, UL 580, UL 1897. Tile rated for 130 mph.	\checkmark
Hail (TDI Approved)	UL2218 (Class 4).	\checkmark
Gravity Load	ASTM E72	\checkmark
Weathering	ASTM G-154	\checkmark
Wind-Driven Rain	AC166 (Sec. 4.2)	\checkmark
TDI Wind Approved	TDI Listing	Approved, listing in process
ACC166 Report #	IAMPO_ER_#304	\checkmark
Florida Product #	FL17126	\checkmark

All Testing

Performance

SUSTAINABILITY

Environmental Impact

Sustainability

Matterhorn® Roofing systems are made with the environment in mind. This ENERGY STAR[®] rated product is designed to help combat climate change and preserve environmental quality.

Energy Savings

ENERGY STAR® rated Matterhorn® Roofing produc able to reflect up to 66% of incoming solar radio This Cool Roof technology helps to keep homes of on hot days and saves homeowners money and en by reducing the amount of time their air condition unit is in use. The lowered demand on electricity improves the electricity grid and reduces greenho emissions from both homes and power production

Water Quality

Non-reflective asphalt and concrete surfaces form "heat islands" by absorbing excessive heat from the sun, which Roofing material has a measurable impact on the quality of water from rooftop runoff. Water from an asphalt shingle heats the atmosphere in urban areas and significantly raises air temperatures. Matterhorn Roofing products roof can contain heavy metals like lead and mercury, mitigate the urban heat island effect by reflecting a large chemicals used in waterproofing, and levels of bacteria that are unseen in runoff from coated metal roofs such as portion of solar energy to keep their surfaces cooler and lower urban air temperatures. This helps reduce the Matterhorn. For many of the same reasons, metal roofs are commonly recommended for collecting rainwater for increased mortality, energy demand, and air pollution associated with exposure of extreme heat in cities. domestic use. All of these features make Matterhorn Metal Roofing products a superior choice when considering better personal and environmental health.

What if Every Home Had a Matterhorn[®] Metal Roof?

Estimated Total annual electricity savings for the entire United States: \$2,934,433,922 Estimated carbon emission savings are equal to this many cars off the road: 2,095,525

ed on Matterhorn® Shake in Cedar which has a 0.88 emissivity rating and an initial solar reflectivity of 0.37

ep Slope Calculator produced by Oak Ridge National Laboratory. (1) Hou . insulation R value of 10.00, and state energy price from July 2014 (2). Savings estimates based on comparison to h use in the state currently has an air conditioner and is switching from a black asphalt roof. Statewide projections base tures in the state from 2009 American Community Survey (3))15 Annual Energy Outlook (4). Carbon equivalencies estimated according to EPA Clean Energy Calculator (5)

nal Laboratory, . DOE Steep Slope Calculator. Department of Energy, June 2005. Web. 6 Aug. 2015. "Electric Power Monthly." US Energy Information Administration. N.p., Sept. 2014. Web. 6 Aug. 2015. U.S. Census Bureau, . "Table 989. Housing Units by Units in Structure and State: 2009." Statistical Abstract of the United States: 2012. N.p., 2012. Web. 10 Aug. 2015. ual Energy Outlook 2015 With Projections to 2040." US Energy Information Administration. N.p., Apr. 2015. Web. 6 Aug. 2015

Recyclability & Waste Reduction

ts are	Matterhorn Metal Roofs last more than four times as long
on.	as asphalt shingle roofs. They are also made from steel
oler	that can be 100% recycled at the end of its lifecycle.
nergy	Compare this to the 2.2 billion pounds of asphalt shingle
ng	that are disposed of in US landfills each year. Additional
lso	Matterhorn Roofs can usually be installed over existing
ise gas	asphalt shingle roofs, which reduces waste generated fro
plants.	reroofing.

Urban Heat Island Effect

Greenhouse Gas Equivalencies Calculator." Clean Energy. N.p., July 2015. Web. 10

Longer Lasting

It can last up to four times longer than asphalt.

Higher Home Value

On average, metal roofing helps raise the value of a home by \$1.45 per square foot.

Insurance Savings

You may even qualify for a discount of 15-30% on your homeowners insurance depending on your insurance agency.

Better Resale Value

Up to 95% of cost recouped when selling your home.

Energy Savings

Reflects up to 65% of solar radiation to significantly reduce energy consumption.



888.784.0878 matterhornmetalroofing.com I qualityedge.com Front Cover Image: Weathered Canyon Quality Edge Texas 634 107th Street Arlington, TX 76011

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