

# UPGRADE TO METAL ROOFING



As the pioneer of stone coated steel technology, DECRA Metal Roofing systems have been proven around the world since 1957. Marketed and installed in over 120 countries, there are millions of DECRA installations worldwide.

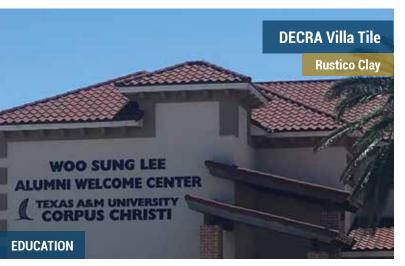
Manufactured to US and international quality standards, DECRA products are tested to comply with or exceed current building codes and regulations. DECRA Metal Roofing has been assessed and registered as meeting the ISO 9001:2015, ISO 45001: 2018 and ISO 14001:2015.

Metal roofing is specified as a solution for performance, longevity, versatility and design. DECRA's lightweight metal roof systems are ideal for new construction or renovation in commercial, institutional and residential applications where high performance, long life and low maintenance are necessary.







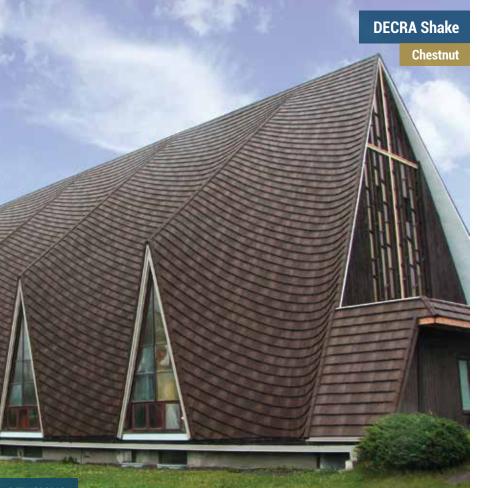




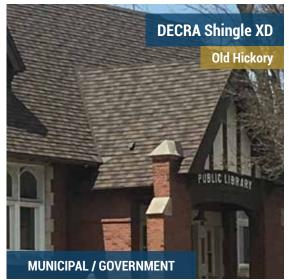












### WHAT SETS DECRA METAL ROOFING APART?

DECRA Metal Roofing provideS safety and protection when it comes to nature's harshest elements such as fire, wind, hail, hurricanes, seismic activity and extreme cold and heat.

#### Why?

The cutting edge technology of the acrylic priming system enhances the superior corrosion resistance of the aluminum-zinc alloy coated steel combined with a 62 year history of manufacturing stone coated steel.

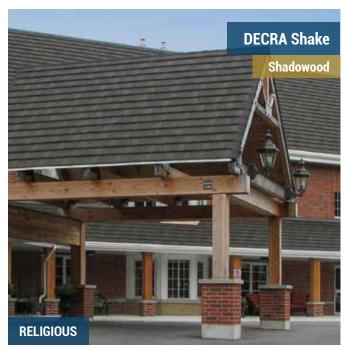
- ✓ 50 Year Commercial Warranty<sup>\*</sup> (first 20 years non-prorated material and labor)
- Wind 120 mph warranty. Max design pressure up to -153.6psf (equates to over 180 mph). Refer to profile fastening schedules
- Hail Class IV impact resistance (highest rating)
- Fire Class A, B, and C fire rated, non-combustible
- Earthquakes Lightweight roofing fastened with screws strengthens the roof deck to reduce seismic activity failure. Material weight – 150 to 160 lbs per square based on profile
- Miami-Dade County Building Code Approval
- Coastal Environments Salt Fog Tested to ASTM B117

\*DECRA Metal Roofing offers a Lifetime Limited Warranty on single family residential in the U.S. & Canada.



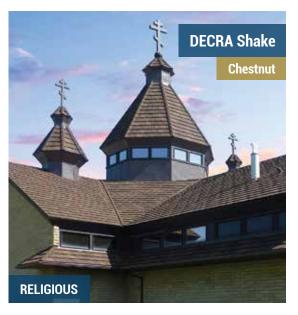
- Energy Efficient Above Sheathing Ventilation (ASV)
- Sustainability Attributes Made with up to 30% recycled content combined, recyclable at end of life, potable water run off, long life, low maintenance
- Added tensile strength through higher grade steel and panel designs.
- 26 gauge steel accessories adds strength and durability to the whole roof system
- Install Savings Full warranty when roofing over a layer of material – contact DECRA for specifics
- Insurance Discounts Available
- LEED Points Available













### **PEACE OF MIND**

Impressive aesthetic designs are what you see at first glance, but underneath are layers of pure protection. A DECRA roof is a piece of beauty that offers peace of mind.

- Steel Aluminum-Zinc Alloy Hot Dip Coating
- Acrylic Priming System
- Acrylic Basecoat
- Ceramic Coated Stone Granules
- Clear Acrylic Overglaze





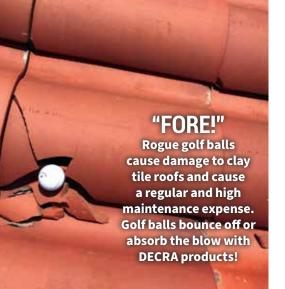
### PROVEN HISTORY OF SURVIVING HARSH CONDITIONS



DECRA's roofing systems have excelled through some of the harshest weather conditions around the world for over 60 years. DECRA's interlocking panels are strong and non-combustible (Class A fire-rated). They are covered by a 50 Year Warranty\* of which the first 20 years are non-prorated and include peace-of-mind coverage for winds up to 120 mph and hailpenetration (Class 4 Impact Resistant).

\*DECRA offers a Lifetime Limited Warranty on single family residential in the U.S. & Canada.

Buildings designed with light and flexible roofs are more resilient to earthquakes because they absorb / distribute energy and bend without breaking. Roofing should be the structure's lightest part as most damage to structures happens from top-heavy tiled roofs.







#### **SURVIVING THE STORM**



"Our Naples, Florida condo was hit dead-on by the eye of Hurricane Irma in September 2017. Lashing us with 140 mph winds, I am happy to report that our DECRA Shake XD roof delivered outstanding performance and protection. Not a single DECRA roof panel in our complex was uplifted or torn off during the storm." — Pattie Villari, Naples Bath & Tennis Club in Naples, Florida





This DECRA Shake roof survived a tornado with no damage.

**Benefit from Above Sheathing Ventilation (ASV):** DECRA Metal Roofing panels create an airspace between the panel and the roof deck. This reduces solar heat gain transfer and helps to reduce and or eliminate ice dams.



### **ENERGY EFFICIENCY**

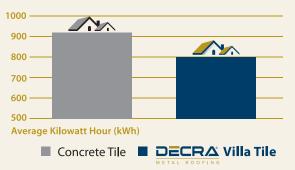
Oak Ridge National Laboratory conducted a study, commissioned by the Department of Energy's Buildings Technologies Program, to test different products and roof assemblies. The DOE funded the study because of the development of infrared-blocking color pigments. The first IR-blocking color pigments were used in military camouflage to hide objects from heat seeking devices, and the DOE was interested in the possible benefits of the "cool" pigment when applied to roofing materials, especially stone coated metal roofs. IR-blocking granules are both highly emissive and reflective.

Testing on the metal panels covered with IR-pigments returned unexpected results. When compared to the asphalt shingle roof, the test roof covered with an IR-pigment granule, installed on a counter-batten and batten system, reduced heat transfer by about 45% — however, only 15% could be attributed to the IR-pigment granules, and 30% of the reduction could be attributed to over the deck venting.



#### **COOL ROOFING**

Energy saved by switching from concrete tile to DECRA Villa Tile





Royal Oak, Mist Grey, and Spanish Clay are now available in all DECRA profiles. These CRRC-approved cool roof colors are effective at reflecting unwanted solar heat on the roof.

### **SOLAR INTEGRATION**

Solar panels can easily be integrated into a DECRA Metal Roof system. Solar systems need a long term roofing system to avoid replacing the roof underneath the panels.

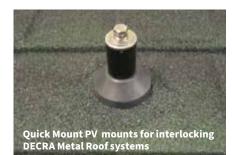
Quick Mount PV (www.QuickMountPV.com) and QuickBOLT (www.QuickBOLT.com) both offer solar mounts for DECRA panels, making solar panel installation quick and easy. Quick Mount PV parts QMNS and/or QMWC work on DECRA panels. New roofs use Quick Bolt part numbers 17536, 17548, 17552, 17620, 17626 and Microflash 17669 and associated accessories to retrofit existing roofs.











Quick Mount PV mounts for batten DECRA Metal Roof systems

## **DECRA COMMERCIAL CASE STUDIES**

All of DECRA's case studies are available for printing and downloading from the website in PDF format. In addition to the highlighted case studies below, also find case studies on durability, environmental solutions, low maintenance historical preservation and innovative design.

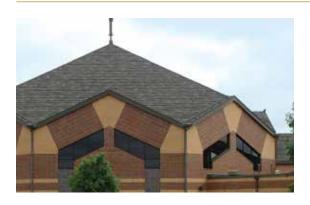
#### HISTORIC PRESERVATION: THE RED ANTIQUITIES BUILDING

**Problem:** Constructed in 1873, the Red Antiquities Building in London, Ontario Canada, needed to preserve its historical appearance of a wood shake roof while finding ways to reduce energy and maintenance costs.

**Solution:** DECRA Shake XD in Antique Chestnut reduces the heat in the attic and provides the classic wood shake appearance that meets historical preservation requirements.

**Results:** The restoration of the building will allow for many more years of service to the community and the new roof has helped in reducing maintenance and energy costs.





#### **RELIGIOUS: BETHLEHEM LUTHERAN CHURCH**

**Problem:** Bethlehem Lutheran Church's existing asphalt shingles were falling off due to high wind conditions in Aberdeen, South Dakota.

**Solution:** Installing DECRA Shake XD in Pinnacle Grey. The interlocking nature of DECRA's direct to deck, hidden fastener product can withstand 120 mph winds.

**Results:** Eliminated the need for constant patching, repairing, and fixing the existing asphalt roof. The Shake XD roof provided an upgraded more dimensional appearance while coordinating with the existing church style.

#### **COMMERCIAL: SLEEP CENTER**

**Problem:** The new commercial Sleep Center needed to blend into the residential area it resided in and the old wood shake roof posed a fire hazard.

**Solution:** Installing DECRA Shake XD in Pinnacle Grey. Shake XD is a Class A fire rated material and emulates wood shake.

**Results:** The Class A fire rating ensured patient safety and the choice of Shake XD preserved the residential feel, blending with the surrounding neighborhood. Easy maintenance, a 50-year warranty and minimal noise requirements are also a plus.





#### **GOVERNMENT: 29 PALMS MILITARY HOUSING**

**Problem:** 29 Palms Military Housing was built in a harsh desert environment with harsh winds and extreme temperatures.

**Solution:** Installing DECRA Tile, Shake and Villa Tile. DECRA's fastening methods, ability to withstand 120 mph winds and resistance to temperature fluctuations made it the right choice for the desert.

**Results:** DECRA provided an attractive, yet durable long-term roofing solution. The steel panels not only stand up to the environment but reduce energy consumption and met the military sustainability requirements

### **DECRA PROFILES**

#### **DECRA VILLA TILE**

Installed direct-to-deck, DECRA Villa Tile features the classic beauty, elegance and architectural detail of an old-world Italian tile.



#### **DECRA TILE**

Installed over battens, DECRA Tile, offering the beauty and style of Mediterranean tile, adds a unique elegance to any roof.



#### **DECRA SHINGLE XD**

Installed direct-to-deck, DECRA Shingle XD has the rich, bold appearance of a heavyweight architectural shingle at a fraction of the weight.



#### **DECRA SHAKE XD**

Installed direct-to-deck. DECRA Shake XD emulates the classic beauty and architectural detail of a thick, rustic, hand-split wood shake.



#### **DECRA SHAKE**

Installed over battens, DECRA Shake offers the distinctive beauty and richness of cedar shake, while providing durability and longevity.



Installation:	Direct-to-Deck
Minimum Pitch:	3:12
Panel Size:	17" × 44-1/4"
Installed Exposure:	14-1/2" × 39-1/2"
Panels per Square:	25.2
Installed Weight:	160 lbs. / sq.



Installation:	Over Battens
Minimum Pitch:	3:12
Panel Size:	16-1/2" x 52"
Installed Exposure:	14-1/2" x 50"
Panels per Square:	20
Installed Weight:	150 lbs./sq.







Installation:	Direct-to-Deck
Minimum Pitch:	3:12
Panel Size:	14-1/8" × 52-1/8"
Installed Exposure:	12-3/8" x 49-7/8"
Panels per Square:	23.4
Installed Weight:	150 lbs./sq.

Installation:

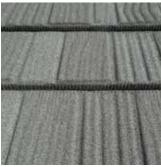
**Panel Size:** 

**Installed Weight:** 



150 lbs./sq.





### **ACCESSORIES TO ENHANCE & COMPLIMENT DECRA PROFILES**

Description	Stone Coated	DECRA Villa Tile	DECRA Tile
Description	Stone Coaleu	(Direct to Deck) Hidden Fasteners	(Battens Only)
Panel Vent 1 Panel Vent / box	$\checkmark$	Panel Size: 17" x 44-1/4" 13.80 lbs Exposure: 14-1/2" x 39-1/2" Net Free Area: 96 sq. in.	Panel Size: 16-1/2" x 52" 12.35 lbs Exposure: 14-1/2" x 50" Net Free Area: 106 sq. in.
Hip & Ridge	J	Tile Hip & Ridge 14-1/2" Exposure 1.1 lbs / piece 900 / 990 lbs / pallet	Tile Hip & Ridge 14-1/2" Exposure 1.1 lbs / piece 900 / 990 lbs / pallet
End Cap	$\checkmark$	Tile End Cap .2 lbs / piece 50 / 10 lbs / bundle	Tile End Cap.2 lbs / piece50 / 10 lbs / bundle
Hip	✓	Use Villa Channel along both sides of hip Finish with Tile Hip & Ridge	Tile Hip & Ridge
Ridge	$\checkmark$	Villa Bird Stop - Ridge – 5' Length (both sides of ridge, cover w/ Tile Hip & Ridge) 1.93 lbs / piece 300 / pallet / 579 lbs / pallet <b>DECRA Ridge Vent</b>	Tile Hip & Ridge DECRA Ridge Vent
Eave Fascia Detail or Starter	all except Starter Pieces	Villa Bird Stop - Eave 5' Length 1.99 lbs / piece 300 / pallet 597 lbs / pallet	3.5" or 5" Fascia Metal (Eave) Flashing 6'6" length 3.5" - 3.5 lbs / piece 300 pcs / 657lbs / pallet 5" - 3.11 lbs / piece 300 pcs / 933 lbs / pallet
Short Course		use batten	use batten
Roof-to-Wall	Side Flashing Only	Villa Channel – 6'6" length 3.55 lbs / piece 150 pcs / 533 lbs / pallet	Side Flashing – 6'6" length 2.27 lbs / piece 150 pcs / pallet 340 lbs / pallet
Roof Penetrations (pipe or vents)		Villa Underpan – 1.9 lbs / piece 25 / bdl, 2 bdl / pallet 95 lbs / pallet 18-1/4" x 22"	Tile Underpan 1.95 lbs / piece 25 / bdl, 2 bdl / palletImage: Comparison of the pallet98 lbs / pallet16-1/2" x 24"
Valley	Valley Cap Only	Villa Valley – 6'6" Length 8.70 lbs / piece 100 / 870 lbs / pallet	W' Valley (brown paint) "U' Valley (stone coated)
Rake/Gable	Hip & Ridge, Rake/Gable Channel, only visible area	Villa Channel – 6'6" length 3.55 lbs / piece 150 pcs / pallet 533 lbs / pallet (cover w/ Tile Hip & Ridge)	Use Tile Hip & Ridge
Colors	1	Amalfi Sand, Capri Clay, Pompeii Ash, Rustico Clay, Tuscan Sun*, Venetian Gold, Woodland Green**	Charcoal, Chestnut, Garnet, Granite Grey, Shadowood, Terracotta, Tuscan Sun*, Weathered Timber, Woodland Green**
Installed Weight (approximate)		160 lbs / square (100 sq. ft.)	150 lbs / square (100 sq. ft.)
Additional items ava	ilable:		
DECRA		Discrete A	
DECRA XD Debri Use with Shake XD and needed along rakes 1-1/2" W x 3/4" I (2 Rolls) 50' rolls / 4. 28 pkgs / 120 lbs	I Shingle XD as (r and valleys H x 50' L 2 28 lbs / pkg (2 l	DECRA Ridge Vent         Flat Shee           see venting calculator         16" x 54"           at www.decra.com)         (coordinate with particulation particulation)           2-1/2" W x 1" H x 20' L         5.60 lbs / piece - 50           Rolls) 20' / 3.31 lbs / pkg         5.60 lbs / piece - 50           0 pkgs / 133 lbs / pallet         5.60 lbs / piece - 50	anel color) Counterflashing for headwalls

Reference individual estimating sheets on DECRA.COM/Estimating

DECRA Shingle XD	DECRA Shake XD	DECRA Shake
(Direct to Deck) Hidden Fasteners	(Direct to Deck) Hidden Fasteners	(Battens Only)
Panel Size: 14-1/8" x 52-3/8" 12.05 lbs Exposure: 12-1/4" x 49-1/2" Net Free Area: 106 sq. in.	Panel Size: 14-1/8" x 52-1/8" 12.70 lbs Exposure: 12-3/8" x 49-7/8" Net Free Area: 106 sq. in.	Panel Size: 14-5/8" x 53" 12.80 lbs Exposure: 12-5/8" x 51" Net Free Area: 106 sq. in.
Shingle Hip & Ridge 25-3/4" Exposure 1.08 lbs / piece 460 / 497 lbs / pallet	Shake Hip & Ridge 12-5/8" Exposure .85 lb / piece 900 / 765 lbs / pallet	Shake Hip & Ridge 12-5/8" Exposure .85 lbs / piece 900 / 765 lbs / pallet
n/a	Shake End Cap .2 lbs / piece 50 / 10 lbs / bundle	Shake End Cap .2 lbs / piece 50 / 10 lbs / bundle
Use XD Channel along both sides of hip Finish with Shingle Hip & Ridge	Use XD Channel along both sides of hip Finish with Shake Hip & Ridge	Shake Hip & Ridge
Shingle Hip & Ridge DECRA Ridge Vent	Shake Hip & Ridge DECRA Ridge Vent	Shake Hip & Ridge DECRA Ridge Vent
Starter Clip w/ Drip Edge 6'6" length 2.58 lbs / piece 120 pcs / 310 lbs / 1/2 pallet 240 pcs / 620 lbs / pallet	Starter Clip w/ Drip Edge 6'6" length 2.58 lbs / piece 120 pcs / 310 lbs / 1/2 pallet 240 pcs / 620 lbs / pallet	3.5" or 5" Fascia Metal (Eave) Flashing 6'6" length 3.5" - 3.5 lbs / piece 300 pcs / 657lbs / pallet 5" - 3.11 lbs / piece 300 pcs / 933 lbs / pallet
Short Course Clip – 6'6" length 2.04 lbs / piece	Short Course Clip – 6'6" length 2.04 lbs / piece	use batten
XD Channel – 6'6" length 3.55 lbs / piece 150 pcs / pallet 533 lbs / pallet (Side Flashing available)	XD Channel – 6'6" length 3.55 lbs / piece 150 pcs / pallet 533 lbs / pallet (Side Flashing available)	Side Flashing – 6'6" length 2.27 lbs / piece 150 pcs / pallet 340 lbs / pallet
Shingle/XD Underpan – 3.3 lbs / piece 25 / bdl, 2 bdl / pallet 165 lbs / pallet 24-3/4" x 30"	Shingle/XD Underpan 3.3 lbs / piece 25 / bdl, 2 bdl / pallet 165 lbs / pallet 24-3/4" x 30"	Shake Underpan 1.8 lbs / piece 25 / bdl, 2 bdl / pallet 90 lbs / pallet 14-5/8" x 24"
XD Valley & Cap – 6'6" Length for both 11.15 lbs & 2.46 lbs / piece Valley 40 pcs / pallet / 446 lbs Cap 300 pcs / pallet / 738 lbs	XD Valley & Cap – 6'6" Length for both 11.15 lbs & 2.46 lbs / piece Valley 40 pcs / pallet / 446 lbs Cap 300 pcs / pallet / 738 lbs	'W' Valley (brown paint) ''U' Valley (stone coated)
XD Rake/Gable Channel – 6'6" length 3.40 lbs / piece 120 / pallet 408 lbs / pallet	XD Rake/Gable Channel – 6'6" length 3.40 lbs piece 120 / pallet 408 lbs / pallet	Use Shake Hip & Ridge
Classic Cobblestone, Midnight Eclipse,Natural Slate, Old Hickory, Woodland Green	Antique Chestnut, Pinnacle Grey, Midnight Eclipse, Woodland Green	Charcoal, Chestnut, Granite Grey, Shadowood, Weathered Timber, Woodland Green**
150 lbs / square (100 sq. ft.)	150 lbs / square (100 sq. ft.)	150 lbs / square (100 sq. ft.)



Touch-Up Kit (coordinate with panel color) 5.53 lbs / each bag of stone chip & tube of sealant (touch up pipe/vent penetrations, transitions & panels) 5lb & 50lb bag of stone chip available separately

Fasteners (hidden) Corrosion Resistant Screws #10 Hex (1/4" head) x 1-1/2" long 2000 pcs / bag 16.65 lbs / box

DECRA

ber -

P

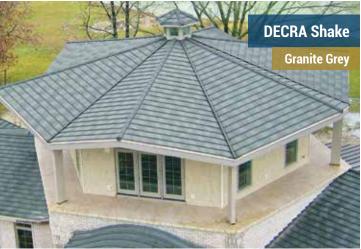
Fasteners (exposed) Color Coordinated Screws #10 Hex (1/4" head) x 1-1/2" long 500 pcs / bag (4 bags / box) 16.70 lbs / box

\*A CRRC-approved cool roof color is available (Tuscan Sun CC, Mist Grey CC and Antique Chestnut CC) | \*\*Made to order; Extended Lead Time 6-8 weeks

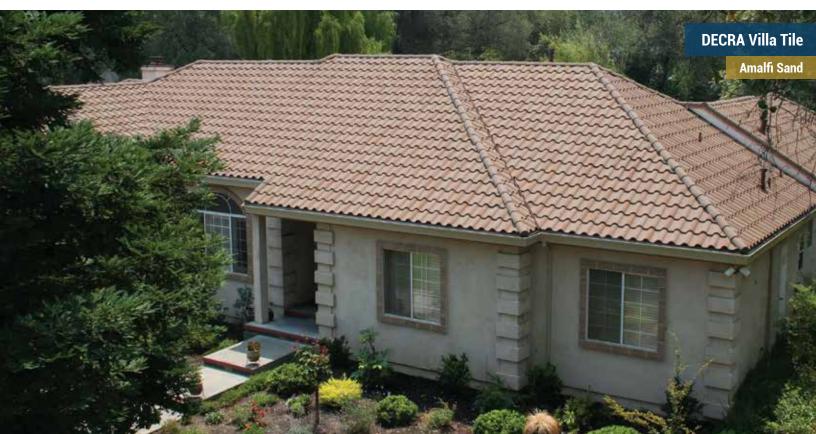
## **DECRA ADDITIONAL APPLICATIONS**

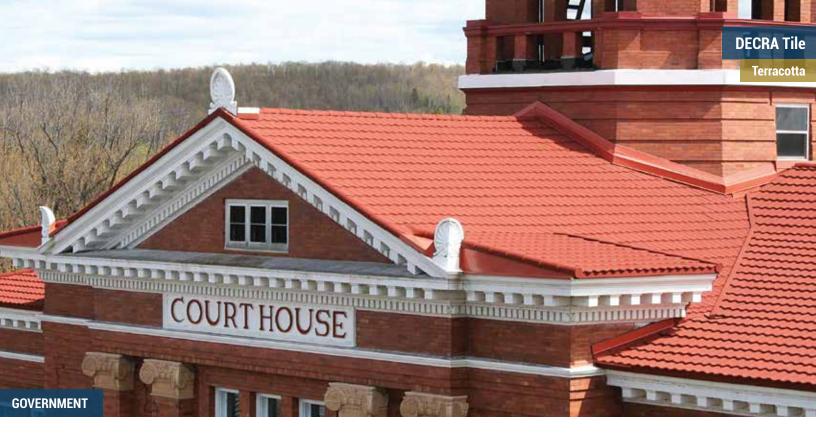
Like wood shakes but not the fire risk or insurance bill? How about transforming the appearance of a home to a clay tile without the weight and high costs? The DECRA profiles offer solid 24 hour protection from the elements with the added energy efficiency benefits. Building owners and homeowners alike who desire a metal roof without the look of metal have a proven roof solution with DECRA Metal Roofing.













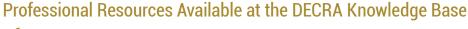
### **DECRA RESOURCES**

#### Visit Us Online at BESTBUYMETALS.COM

Our website contains a wealth of information on products and continuing education. Learn about the benefits of stone coated steel and DECRA's contributions to LEED initiatives.

Additionally you can find an extensive photo gallery. Log onto BestBuyMetals.com today to find the answers you need for your DECRA questions.







Three part CSI-formatted Guide Specifications in Word and PDF file formats



Technical Drawings in PDF, JPG and CAD file formats

#### **Evaluations & Testing**

- See latest list and report links for IRC & IBC Codes, Florida Building Code, LA City, Miami-Dade County and Canadian Building Code at www.DECRA.com/ technical/ product-evaluations
- Texas Department of Insurance Report RC-281
- Fire: UL 790 (ASTM E108 A, B&C) Class A Pass
- Hail: UL 2218 Class 4

- Wind Uplift: UL 1897
- Plant: ISO 9001: 2015; ISO 14001: 2015; ISO 45001: 2018
- Plant: ISO 9001: 2015; ISO 14001: 2015; ISO 45001: 2018
- National Building Code of Canada

CCMC Evaluation Report CCMC #13551-R (direct-to-deck)

CCMC Evaluation Report #10241-R (on battens)

### **DECRA COLOR BLENDS**







Chestnut



Granite Grey





**DECRA Metal Roofing Cool Roof Colors** 

Available on all DECRA Metal Roofing profiles:





Weathered Timber Shadowood

Woodland Green\*

#### \*Please note these colors are MTO (made to order) and production times may be extended.



Cool colors meet California Title 24 Cool Roof requirements.

Additional charges may apply to Cool Colors. Due to lighting and the printing process, roof colors and color swatches may vary from the actual product. For optimum visual appearance, install with a random stagger of the panels





METAL ROOFING - NATIONWIDE 800-728-4010 | BESTBUYMETALS.COM

DECRA Roofing Systems, Inc., Corona, CA | © 2023 DECRA Roofing Systems, Inc. 0121