

TECHNICAL DATA SHEET

Matterhorn Metal Shake



Product Information

Matterhorn Metal Shake Roofing is authentically crafted, light-weight, fully recyclable, energy efficient and forged in steel. Each panel is comprised of a carbon alloy steel core, with hot-dipped G90 Zinc Phosphate anti-corrosion coating, plus an exterior PVDF Paint System. With its colors designed to recreate the hues of natural shake, Matterhorn Metal Shake adds a warm, custom-crafted appearance to your home.



Cool Roof Coating Technology and ENERGY STAR® Rating

PVDF Paint System “cool roof coating technology” improves the radiative properties of the steel, making it significantly more energy efficient. All Shake colors are ENERGY STAR Certified & rated with the Cool Roof Rating Council.

Matterhorn Shake® - Colors Available

Weathered Wood Shorewood Timber Ash Cedar

Physical Properties

Gauge	Thickness
28	0.016”

Panel Dimensions (Nominal):

Panel	Width [in]	Length [in]	Thickness [in]	
			Lower Edge	Upper Edge
Uninstalled	22-1/8	47-1/2	3/8	3/16
Installed/Exposed	20-1/2	45-7/8	3/8	3/16

Roof Coverage:

Panels / Square [nominal]	Panels / Square [actual]	Cartons / Square [nominal]	Weight / Square [lb]
16	15.3	2	90

1 Square = 100 sqft

Packaging and Shipping Information:

Panels / Carton [ea]	Weight / Carton [lb]	Cartons / Pallet [ea]
8	45	40

Weight / Pallet [lb]	Pallets / TL [ea]	Weight / TL [lb]
1,800	22	39,600

Code Evaluations

Certifying Body	Report ID	Compliance
IAPMO	ER-375	ICC-ES AC166
		2015, 2012, 2009 IBC
		2015, 2012, 2009 IRC
Texas Dept. of Insurance	RC-487	IBC/IRC with Texas Revisions

Performance Properties

Description	Standard
Impact Resistance	UL 2218 Class 4
Gravity Load Resistance	ASTM E72
Weathering Resistance	IBC 1504.6 / ASTM G-154
Wind-Driven Rain	AC166 (Sec. 4.2)

Wind Resistance

Wind Uplift Resistance:

Fastening Method	MAXIMUM ALLOWABLE UPLIFT LOADS [psf]
No. 10 by 1 1/2-inch zinc-coated panhead screws one in each of the 4 holes along the panel fastening edge - 4 fasteners/panel	33 psf
No. 10 by 1 1/4-inch zinc-coated panhead screws 7 inches on center along the top fastening edge	42 psf

Design Wind Speed:

- Under the 2009 IBC, 2009 IRC, and 2012 IRC, Matterhorn Shake is prescriptively recognized for use at locations where the maximum nominal design Basic Wind Speed, 3-second gust, as described on the Basic Wind Speed maps contained in those codes, is 100 mph (161 km/h), in Exposure B areas, on structures a maximum of 40 feet (12 192 mm) in height.
- Under the 2012 IBC, 2015 IBC, and 2015 IRC, Matterhorn Shake is prescriptively recognized for use at locations where the maximum Ultimate Design Wind Speed, V_{ULT} , 3-second gust, as described on the Ultimate Design Wind Speed maps contained in those codes, is 130 mph (209 km/h), in Exposure B areas, on structures a maximum of 40 feet (12 192 mm) in height.

Fire Resistance / Approved Systems

ASTM E108 Class A:

Assembly No. 1	
BOTTOM LAYER	1/4" or 1/2" Georgia Pacific DensDeck
TOP LAYER (choose one):	CertainTeed MetaLayment®; or CertainTeed WinterGuard® HT; or CertainTeed DiamondDeck®

Fire Resistance / Approved Systems (continued)

ASTM E108 Class A:

Assembly No. 2 / with UNDERLAYMENT	
BOTTOM LAYER:	GAF VersaShield
TOP LAYER (choose one):	CertainTeed MetaLayment®; or CertainTeed WinterGuard® HT; or CertainTeed DiamondDeck®

ASTM E108 Class B:

Assembly No. 3	
Underlayment (choose one):	CertainTeed MetaLayment®; or CertainTeed WinterGuard® HT; or CertainTeed DiamondDeck®; or All Weather / Empire Base (CT); or GAF VersaShield

IMPORTANT: For roof slopes from 3:12 up to 4:12, CertainTeed WinterGuard® HT, CertainTeed MetaLayment® or equivalent high temperature resistant self-adhering underlayment must be installed over the entire deck. Ensure deck underside is properly ventilated.

Application Instructions

Apply Matterhorn Shake shingles following the method described in our installation guide which can be found at bestbuymetals.com or by contacting us at 1-800-728-4010. Roof slope must be 3:12 or greater. Roof deck must be a minimum 15/32" thick solid APA plywood or equivalent. CertainTeed WinterGuard® HT, CertainTeed MetaLayment® or equivalent high temperature resistant self-adhering underlayment must be installed directly to the deck (or fire resistant barrier) on all eaves and in all valleys. CertainTeed's DiamondDeck® synthetic underlayment, or its equivalent, must be applied to the balance of the roof deck.

Accessory Products

Refer to Shake / Slate Accessory Brochure

Limited Warranty

Access at bestbuymetals.com or by contacting us at 1-800-728-4010.

