

Metal Roofing



For peace of mind and comfort

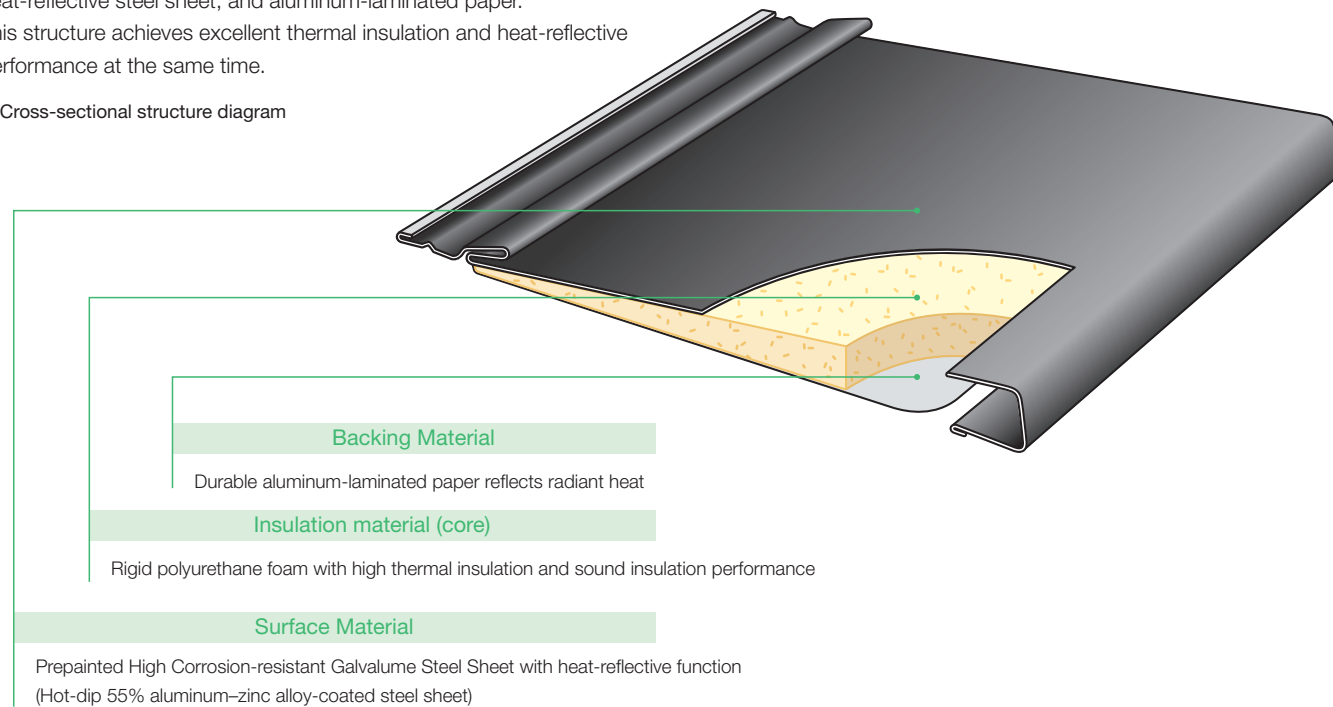
Ultra high-durability Metal roofing Basic Performance

1 Three-layer structure with excellent thermal insulation

This is a "High-performance metal roofing material" integrally molded with insulation material (Rigid Polyurethane Foam), heat-reflective steel sheet, and aluminum-laminated paper.

This structure achieves excellent thermal insulation and heat-reflective performance at the same time.

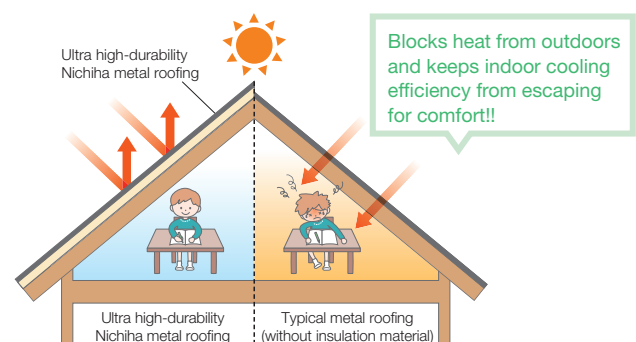
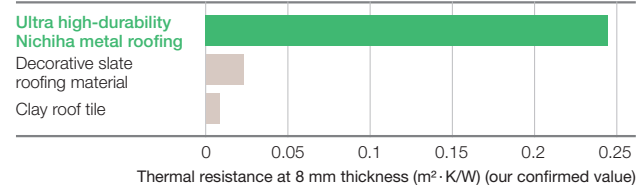
■ Cross-sectional structure diagram



2 High thermal insulation performance through integral molding with insulation material (rigid polyurethane foam)

Integral molding of the steel sheet with highly insulating rigid polyurethane foam delivers outstanding thermal insulation performance not found in other roofing materials. Furthermore, since "Ultra High-durability Nichiha metal roofing" uses a steel sheet with a heat-reflective function for the surface material, even greater effects can be expected. Nichiha metal roofing provides a cool and comfortable living environment in summer.

■ Comparison of thermal insulation performance of roofing materials (single unit)



3 Waterproof performance

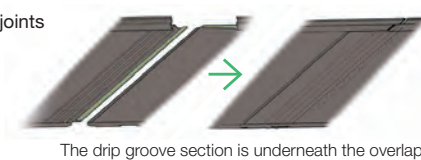
No leaks even with 230 mm/h rainfall and 30 m/s wind speed! (our in-house test value)

Uses a proprietary shape with excellent waterproof performance. Nichiha metal roofing has a four-fold folded waterproof structure in the direction of flow, and four waterproof ribs are arranged for horizontal joints.

■ Main unit direction of flow
A four-fold folded waterproof structure prevents rainwater from entering.



■ Main unit horizontal joints
Nichiha's proprietary overlapping structure. Steel sheets overlap even on the inside of the seam.



The excellent waterproof shape limits leaks even during heavy rain.



Highly resistant to fading and remains looking elegant for a long time

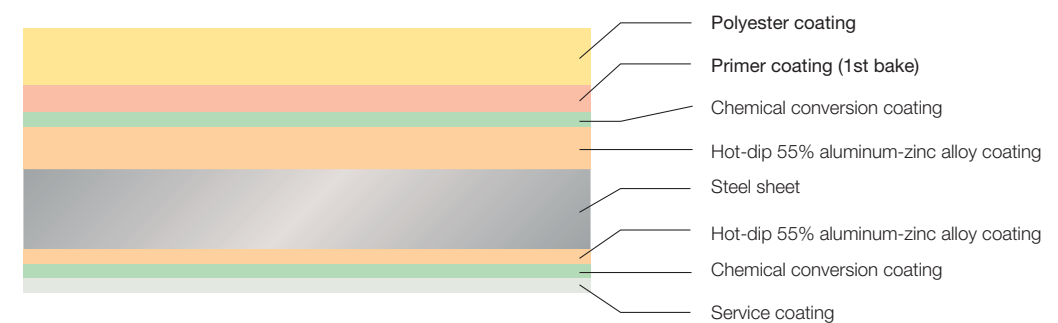
High weather resistance and high durability

High Weather Resistance

4 Made using highly weather-resistant Heat-reflective Steel Sheet with excellent durability performance!

Made using "Polyester-Prepainted High Corrosion-resistant Galvalume Steel Sheet," which delivers high weather resistance performance.

■ Surface structure of "Polyester-Prepainted High Corrosion-resistant Galvalume Steel Sheet"

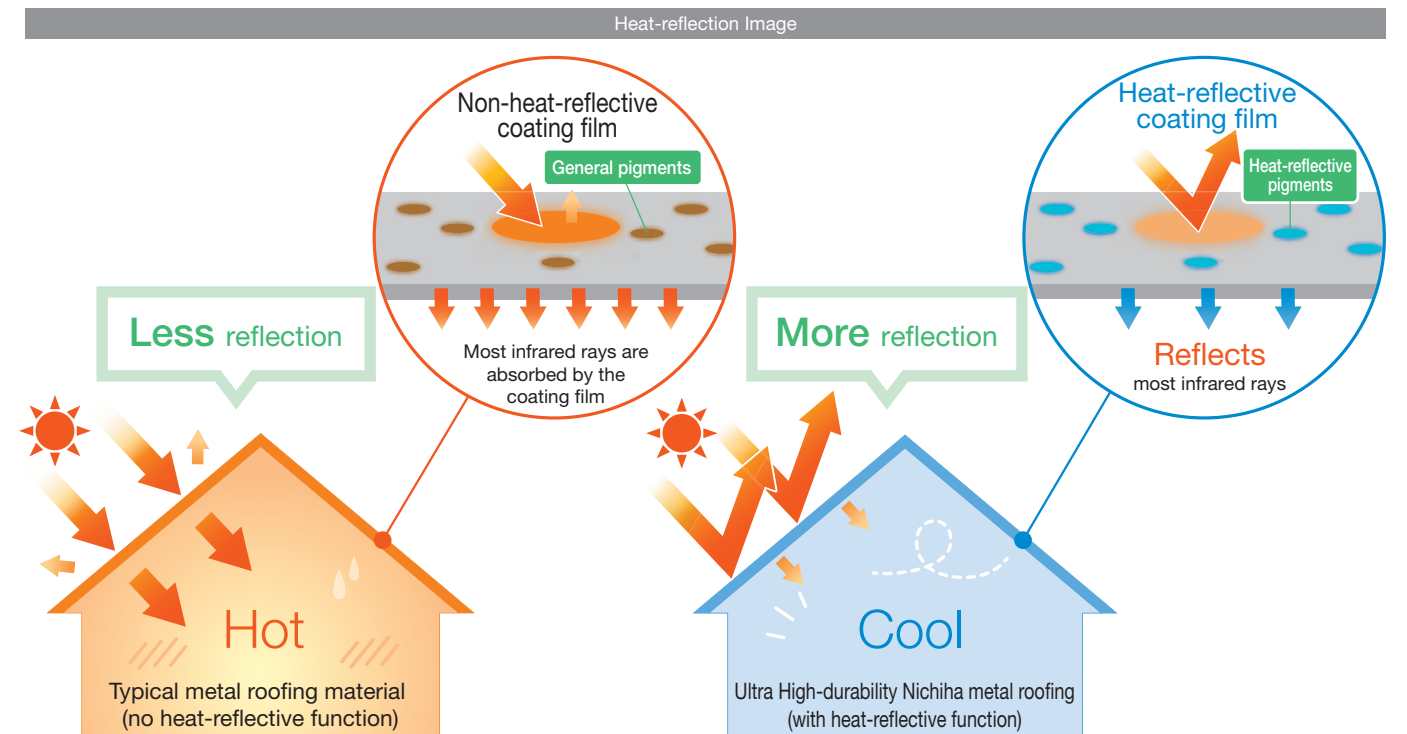


Reflects Thermal Energy

Excellent heat-shielding performance

1 Heat-reflective Steel Sheet

"Ultra High-durability Nichiha metal roofing" uses "Prepainted High Corrosion-resistant Galvalume Steel Sheet" with a heat-reflective function as the surface material. By reflecting infrared rays—readily converted into heat energy within sunlight—this structure suppresses temperature rise of the steel sheet due to solar radiation and reduces heat entering indoors.





The deep luster of "Polyester-Prepainted High Corrosion-resistant Galvalume Steel Sheet" with special wrinkle coating is a match for simple designs. The combination of insulation material with a maximum thickness of 17 mm and heat-reflective steel sheet provides excellent thermal insulation performance.



2BH1FW5G image

Main Unit Specifications

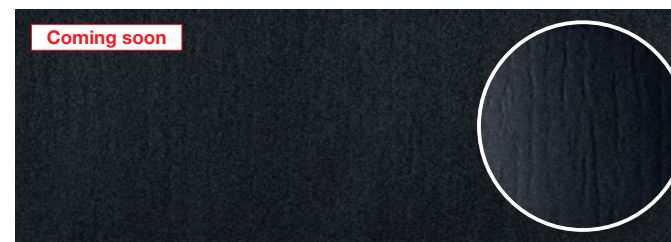
Surface Material	Polyester-Prepainted High Corrosion-resistant Galvalume Steel Sheet (thickness 0.35 mm)	Thickness	Effective Width	Length	M ² /sheet	Qty per Package	Area per Package	Package Weight*	Weight per Sheet
		Max. 17 mm	260 mm	2,960 mm	0.770 m ²	6 Sheets	4.62 m ²	Approx. 24 kg	Approx. 3.8 kg
Core Material	Rigid Polyurethane Foam	Shape Dimension Drawing (mm)							

* Package weight includes the weight of packaging materials.

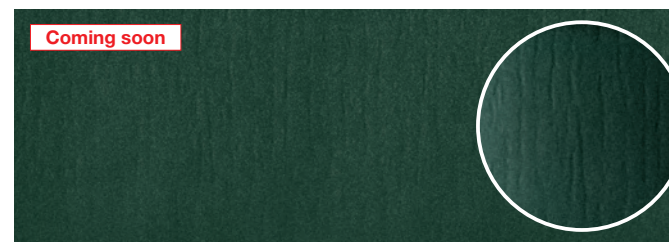
Roof Pitch : 2.5/10 or steeper (Note: For pitches between 2.5/10 and 3.5/10 in new construction, re-roofing, or over-roofing on waterproof plywood, additional waterproofing reinforcement is required.)

Fire-Rating Certification No.(Japan)

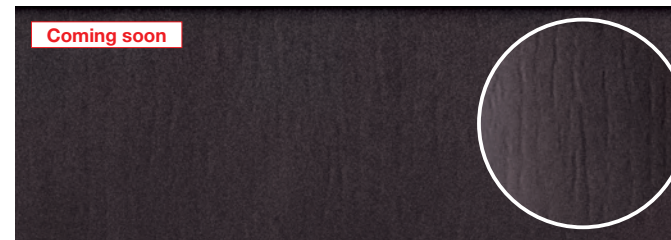
Resistance to External Fire	DR-1981(1) [Asphalt Roofing] Compatible with roof Pitches from 2.5/10 to 27.5/10
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2BH1FW5G



2BH1FW5J



2BH1FW5H



2BH1FW5K

Comparable Munsell Values

Product Name	Munsell Value
2BH1FW5G	2.7PB 2.6/0.3
2BH1FW5H	9.5R 2.7/0.5
2BH1FW5J	1.8G 2.8/1.8
2BH1FW5K	1.3PB 2.9/2.2

*The published Munsell values are for the material. (paint).

Physical Properties

Thermal Insulation Performance ¹			Sound Insulation Performance (Acoustic Transmission Loss) ⁴		
Overall Thermal Resistance	Thermal Resistance ²	Thermal Conductivity ³	250 Hz (Low Frequency)	500 Hz (Mid Frequency)	1,000 Hz (High Frequency)
0.51m ² /K/W	0.27m ² /K/W	0.042 W/(m·K)	13.9dB	17.0dB	20.7dB

¹ These are the values for the standalone product (performance values are generally also provided for assembled structures, so take care when making comparisons).
² Based on JIS A 1420 Determination of steady-state thermal transmission properties – Hot box method. Measuring Institution: Japan Testing Center for Construction Materials (JTCCM)(General Incorporated Foundation) Building Materials Testing Center
³ Thermal resistance is calculated based on the overall thermal resistance.
 Apparent Thermal Resistance Value [m²/K/W] R_a = R_s - R_s·Pk; Overall Thermal Resistance [m²/K/W] R_s: Surface Heat Resistance 0.24 [m²/K/W]
⁴ Thermal conductivity values are calculated from the apparent thermal resistance value and the average thickness of the product.
 Thermal Conductivity [W/(m·K)] λ = d/R_a; R_a: Apparent Thermal Resistance Value [m²/K/W] d: Average product thickness [m]
⁵ Based on JIS A 1416 Method for laboratory measurement of airborne sound insulation of building elements. Measuring Institution: Center for Better Living



*1 The side marked within 150 mm from the end is the upper side.

Precautions

- *2 Included components: cover mounting screws, base mounting screws
- *3 Included components: fixing screws, end flashing (drip edge), end flashing cap
- Please note that items in "Common Colors" cannot be specified by color. ● As this is printed material, the colors/patterns may differ from the actual product.
- When using Touch-up Paint on surface scratches, etc., apply touch-up only to a very small area. If the coated area is large, it may look unnatural.
- We also offer dedicated sealant, but depending on chemical regulations in each country, it might not be available for purchase.

Accessories Material: Polyester-Prepainted High Corrosion-resistant Galvalume Steel Sheet (excluding snow guards and Chemical Treated Surface closing strips)

* For installation methods and processing methods for accessories, please refer to the latest "Design & Installation Data Collection: Metal Exterior Wall Materials & Roofing Materials (Standard Installation Edition)" or "Design & Installation Data Collection: Exterior Renovation (3) (Wooden Structures Edition)."

Product Name	Eaves Flashing 40	Eaves Flashing 60	Setback Starter	Setback Starter 28	Zero Drip Starter	Zero Drip Starter 25	Rake Drip Edge 85	Rake Drip Edge Cap 85 (Left)
Shape Dimension Drawing								
Length	2,727 mm	2,727 mm	2,727 mm	2,727 mm	1,820 mm	1,820 mm	2,727 mm	—
Qty per Package	10 Pcs/carton	10 Pcs/carton	10 Pcs/carton	10 Pcs/carton	10 Pcs/carton	10 Pcs/carton	4 Pcs/carton	50 Pc
2BH1FW5G	BNK1F05G	BNK2F05G	BZS7F05G	BZS8F05G	BZS3F05G	BZS4F05G	BKZ6F05G	BKCGF05G
2BH1FW5H	BNK1F05H	BNK2F05H	BZS7F05H	BZS8F05H	BZS3F05H	BZS4F05H	BKZ6F05H	BKCGF05H
2BH1FW5J	BNK1F05J	BNK2F05J	BZS7F05J	BZS8F05J	BZS3F05J	BZS4F05J	BKZ6F05J	BKCGF05J
2BH1FW5K	BNK1F05K	BNK2F05K	BZS7F05K	BZS8F05K	BZS3F05K	BZS4F05K	BKZ6F05K	BKCGF05K

Product Name	Rake Drip Edge Cap 85 (Right)	Rake Drip Edge 110	Rake Drip Edge Cap 110 (Left)	Rake Drip Edge Cap 110 (Right)	Rake Cover 60	Rake Cap 60 (Left)	Rake Cap 60 (Right)	Valley Flashing 80
Shape Dimension Drawing								
Length	—	2,727 mm	—	—	2,727 mm	—	—	2,727 mm
Qty per Package	50 Pc	4 Pcs/carton	50 Pc	50 Pc	10 Pcs/carton	1 Pc	1 Pc	10 Pcs/carton
2BH1FW5G	BKCF05G	BKZ8F05G	BKCF05G	BKCF05G	BKD6F05G	BKCF05G	BKCF05G	BSD1F05G
2BH1FW5H	BKCF05H	BKZ8F05H	BKCF05H	BKCF05H	BKD6F05H	BKCF05H	BKCF05H	BSD1F05H
2BH1FW5J	BKCF05J	BKZ8F05J	BKCF05J	BKCF05J	BKD6F05J	BKCF05J	BKCF05J	BSD1F05J
2BH1FW5K	BKCF05K	BKZ8F05K	BKCF05K	BKCF05K	BKD6F05K	BKCF05K	BKCF05K	BSD1F05K

Product Name	Wall Drip Edge 60 x 120	Wall Drip Edge 60 x 55	Wall Drip Edge 105 x 70	Valley Gutter ¹	Edge Trim	Ridge Cap 210	Ridge Cap for Mono-pitch Roof	Ken-saki 210 (Ridge End Piece)
Shape Dimension Drawing								
Length	2,727 mm	2,727 mm	2,727 mm	2,727 mm	2,727 mm	2,727 mm	2,727 mm	—
Qty per Package	10 Pcs/carton	10 Pcs/carton	10 Pcs/carton	5 Pcs/carton	10 Pcs/carton	5 Pcs/carton	4 Pcs/carton	10 Pcs/carton
2BH1FW5G	BAM5F05G	BAM7F05G	BAM3F05G	BTD1F05G	BMKDF05G	BMD3F05G	BDMBF05G	BKE1F05G
2BH1FW5H	BAM5F05H	BAM7F05H	BAM3F05H	BTD1F05H	BMKDF05H	BMD3F05H	BDMBF05H	BKE1F05H
2BH1FW5J	BAM5F05J	BAM7F05J	BAM3F05J	BTD1F05J	BMKDF05J	BMD3F05J	BDMBF05J	BKE1F05J
2BH1FW5K	BAM5F05K	BAM7F05K	BAM3F05K	BTD1F05K	BMKDF05K	BMD3F05K	BDMBF05K	BKE1F05K

Product Name	Ridge Trim 210 (Decorative Ridge End)	Snow Guard (Wing Type)	Center Ridge Vent 909 ²	Center Ridge Vent 1818 ²	Ridge Vent End Cap	Ridge Vent Joint	Ridge Vent for Mono-pitch Roof ³	Common Flashing Plate
Shape Dimension Drawing								
Length	500 mm	—	909 mm	1,818 mm	—	—	Effective Length: 2,000 mm	—
Qty per Package	10 Pcs/carton	50 Pcs/carton	1 Pc/carton	1 Pc/carton	2 Pcs/carton	1 Pc/carton	1 Pc/carton	50 Pcs/carton
2BH1FW5G	BTEBF05G	BYE3Q0JK	BKM2F05G	BKM1F05G	BKM4F05G	BKM3F051 (Common colors)	BKM5F05G	BYS2F00A (Common colors)
2BH1FW5H	BTEBF05H	BYE4Q0JJ	BKM2F05H	BKM1F05H	BKM4F05H		BKM5F05H	
2BH1FW5J	BTEBF05J	BYE4Q0JC	BKM2F05J	BKM1F05J	BKM4F05J		BKM5F05J	
2BH1FW5K	BTEBF05K	BYE4Q0JU	BKM2F05K	BKM1F05K	BKM4F05K		BKM5F05K	

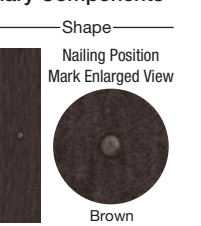
Product Name	Retainer Flashing	Chemical Treated Surface Closure 13 x 15	Chemical Treated Surface Closure 15 x 35	Coil Steel Sheet	Sealant	Touch-up Paint
Shape Dimension Drawing						
Length	2,727 mm	2,000 mm	2,000 mm	914 mm x 10 m	—	—
Qty per Package	10 Pcs/carton	330 Pcs/carton	50 Pcs/carton	1 Roll/carton	10 Pcs/carton (320 mL/pc)	1 Pc/carton (15 mL/pc)
2BH1FW5G	BKM6F05G	BCMCQ10B (Black)	BCBQ10B (Black)	ECL1F75G	DSY1Q0K1	DPA4Q0SE
2BH1FW5H				ECL1F75H	DSY1Q0K4	DPA4Q0SF
2BH1FW5J				ECL1F75J	DSY1Q0WF	DPA4Q0ST
2BH1FW5K				ECL1F75K	DSY1Q0K2	DPA4Q0SU

Fastening Area

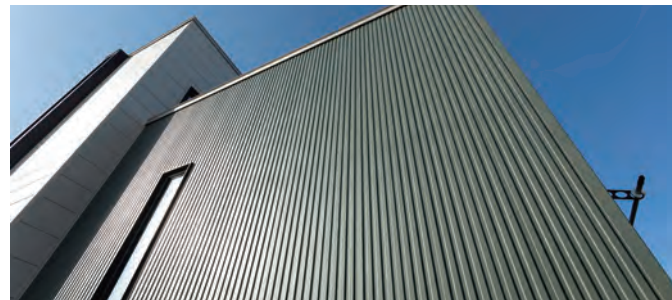
Product Name	Stainless Steel Screw Nails	Stainless Steel Screws	Stainless Steel Drill Screws
Shape			
Part No.	JK500E Unpainted	JK1710	JK1920
Qty per Package	35 Pcs/bag	Approx. 500 Pcs/box (10 boxes/carton)	Approx. 300 Pcs/box (5 boxes/carton)
Material	Stainless Steel	Stainless Steel	Stainless Steel
Remarks	For Rafter Fixing	For Roof Sheathing Fixing	Screws for Overlay Roofing on New Tile Roofs

Backing Material Fastening Auxiliary Components

Product Name	Galvanized Steel Sheet
Shape	FA4000
Part No.	0.35×30×855 mm
Qty per Package	10 Pcs/carton
Material	Polyester-Prepainted High Corrosion-resistant Galvalume Steel Sheet (brown)
Remarks	For Fixing Backing Material for Overlay Roofing on Asbestos-containing Roofing Materials



We also offer metal siding.
Please feel free to reach out to us for more information.

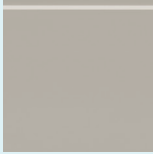


* Photos are for illustrative purposes.


New Construction | Residential | 01

A simple yet high-impact exterior design

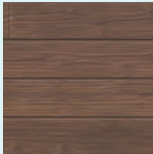
The light gray flat pattern and green span pattern are neatly and beautifully arranged in blocks, and tightened up with black window sashes. EPS494□X used around south-facing tall vertical slit windows on become a focal point, creating a simple yet high-impact exterior design.



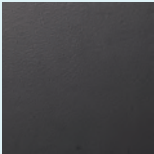
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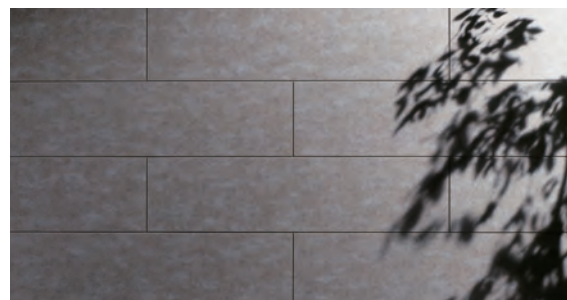


EPS494□X



Soffit 12
Stipple Finish

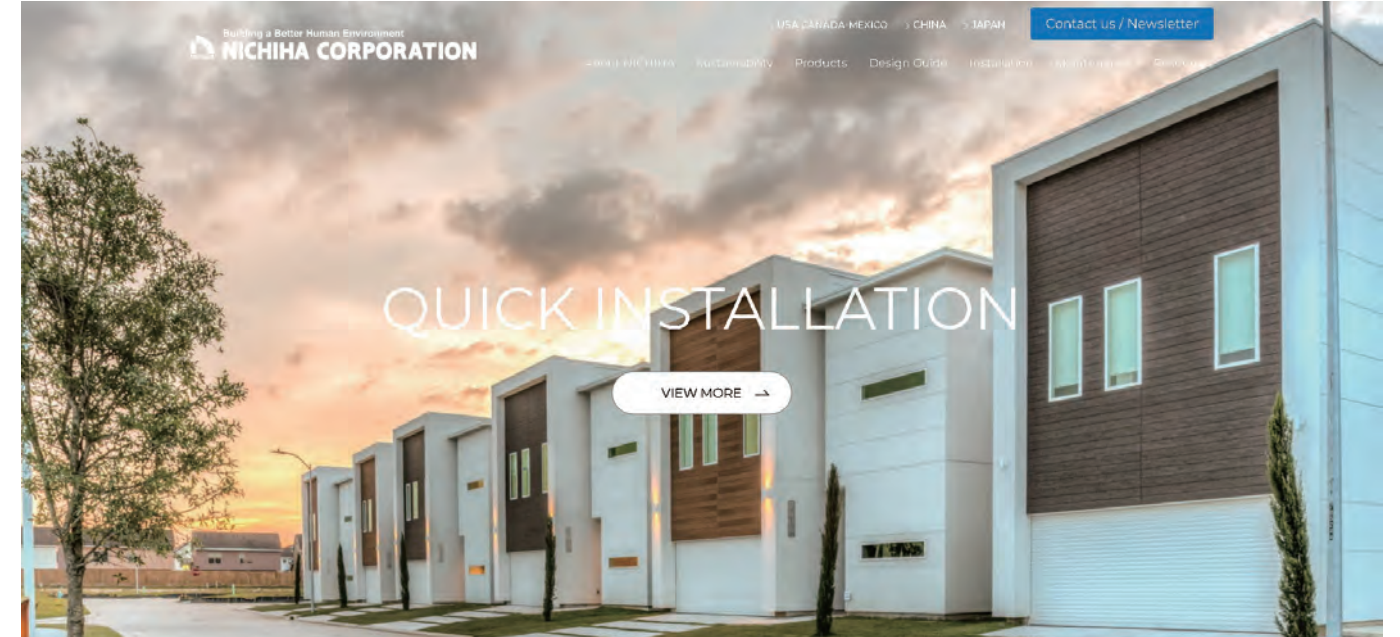
Featured products other than metal sidings



Fiber cement siding



Soffit



Company Profile

Company Name	NICHIHA CORPORATION	Headquarters	Nagoya, Aichi, Japan
Establishment	June 25, 1956	Sales office	(Domestic) 34 offices (Overseas subsidiaries) 3 companies
Capital	¥8,135 million yen	Plant	(Domestic) 9 Production bases (Overseas) 2 Production bases
Business details	Manufacture and sale of fiber cement sidings Sale of metal sidings, metal roofing Sales of hardboard and various building materials	Brand name	Nichiha EX series
Employees (consolidated)	3,158	Web site	https://www.nichiha.co.jp/global/



Expand your design
possibility with Nichiha.