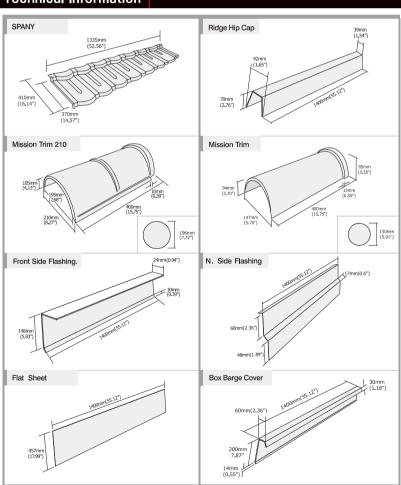
#### **Test Approval**

Matorial		Dooigilation	
Base Steel		ASTM A792 (AZM150)	
Test Item	Test M	ethod	Certified By
Accelerated Weathering 耐人工老化	500H KSF4751 GB/T 16529-1996 1000H ASTMG26		Korea Institute of Construction Materials 中国国家建粉测试中心 Korea Institute of Construction Materials
Humidity Resistance	500H KSF4751		Korea Institute of Construction Materials
Salt Spray Test 耐盐水喷雾性	500H KSD9502 GB/T 1771-1991 1000H ASTMB117		Korea Chemical Inspection and Testing Institute 中国国家建林鄉武中心 Korea Institute of Construction Materials
Pencil Hardness	KSD6711		Korea Chemical Inspection and Testing Institute
Cross Cut 密着性	100/100 KSD6711 GB/T 1720–1979		Korea Chemical Inspection and Testing Institute 中国国家建村测试中心
Impact Resistance	KSM5307		Korea Chemical Inspection and Testing Institute
Acid Resistance 耐酸性	KSF4751 GB/T 17748-1999		Korea Chemical Inspection and Testing Institute 中国国家建材测试中心
Alkali Resistance 耐碱性	KSF4751 GB/T 17748–1999		Korea Chemical Inspection and Testing Institute 中国国家建材测试中心
Heat Resistance	KSF4751		Korea Chemical Inspection and Testing Institute
Fire Resistance	KSF2271 UL 790 (Class 4)		Korea Institute of Construction Materials Underwriters Laboratories, U.S.A.
Fire Test	Certificate No.: NM-0049		Japan Ministry of National Land & Transportation
Penetration Test	Assignment No: 04CA21758		Underwriters Laboratories U.S.A.
Uplift Resistance	UL 2218		Underwriters Laboratories

## **Technical Information**



\* Other colors available, please check with Roser about other color information

#### STANDARD PACKING DETAIL

### Color Guide

Piebald

Blade Green

Sea Green

- 102
  - Coffee Brown
  - Terracotta
- 105

  - Dark Green
  - # The above color samples may look different from the original products. Please refer the actual sample or Roser's color chart for the actual product's color.
  - \* To meet each and every construction requirements, other types of accessories are also available.

KSA Q INVOBIZ ( E S O OCCUPIT)





Stone Coated Steel Roof www.ROSER.com

Hokkaido Northern Regional Building Research Institute, Japan,

VERSION:RSBCCE-04

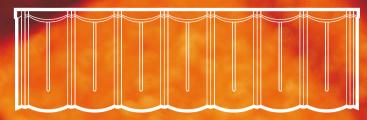
One Bldg. 12F., 121, Teheran-ro, Gangnam-gu, Seoul, KOREA. T +82 2 566 7663

Marketing@roser.com F +82 2 563 7663 The above logos and names are registerd trademarks of Roser Co.,Ltd.  $\,\odot$  2007 Roser Co.,Ltd.

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# **Stone Coated Steel Roof**



ROSER. The reliable partner for roofing solutions.

ROSER ROOFING SYSTEM

Stone Coated Steel Roof www.ROSER.com



A leading manufacturer of lightweight stone-coated steel roofing products.



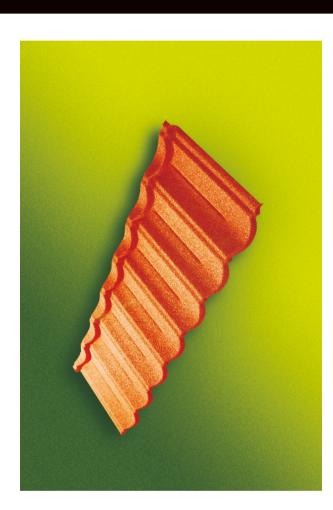




A leading manufacturer of lightweight stone-coated steel roofing products.



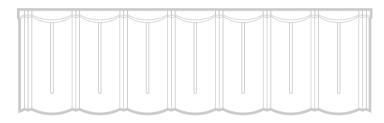
# A Roofing system that re-defines the definition of a good roof



**ROSER ROOFING SYSTEM** 

Stone Coated Steel Roof

**SPANY** is an excellent roofing system by its shape and design. It can improve the look of your new house or existing roof instantly. It is available in a variety of ten different fashionable colors. With its overlapped and interlocked installation system, SPANY is designed and manufactured to protect your home from the most extreme weathers.



#### LIGHTWEIGHT

SPANY is wide, which means that every tile covers a large area. It's lightweight (only about 1/6 weight of traditional clay or cement tile), therefore, you can save considerable amounts of money on extra structural support, transportation, workmanship, and installation costs.

#### RE-ROOFING

SPANY can bring a new look to your home if you are unsatisfied with your existing roof. It is designed to be easily installed over any existing roof in a matter of a few days.

#### MANUFACTURED TO INTERNATIONAL STANDARDS

To meet the rapidly changing demands of the 21st century, ROSER CO., LTD. is ISO9001 certified, the quality management system standard accepted in more than 75 countries around the world.

### **EASY HANDLING**

SPANY can be cut, bent, and shaped to meet the most demanding roof design from as low as a 12-degree pitch to a 90-degree angle pitch.

#### **EXCELLENT COLOR CHOICE**

SPANY has a great selection of colors to choose from which will suit each and every customer's preference. The colors blend in perfect harmony to give a natural and dazzling look to your roof.

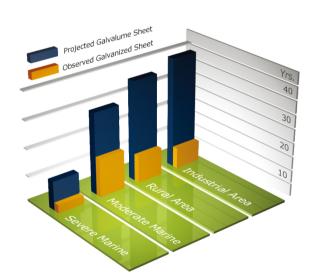
#### **OUTSTANDING DURABILITY:**

SPANY is designed and manufactured to withstand all kinds of most severe weather such as extremely hot and cold weather, strong wind, and heavy rain. The core strength is \*Galvalume\* steel (Al-Zn Alloy). \*Galvalume\* steel has great long-term corrosion resistance. On both sides of this core strength additional coating systems applied respectively for enhanced durability. The stone chips are then embedded to provide enhanced strength and beauty.

# WHAT IS GALVALUME:

 $^*$ **Galvalume** $^{\circ}$ steel is the result of an ideal alloy of Aluminum and Zinc. It consists of Aluminum (55% in weight ratio but 80% in surface volume ratio), Zinc (43.4% in weight), and Silicone (1.6% in weight ratio) so it has both Aluminumunique corrosion-resistance and heat resistance and Zincunique "Galvanic Behavior".

#### **Columned diagram:**



Atmospheric test program of \*Galvalume\* sheet early R&D samples; year to first rust

- Projected life is based on accurately measured panel weight losses caused
- The information contained in the Graph is From the May 1999 issue of the

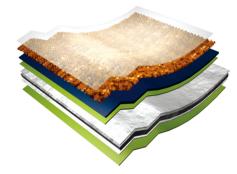
\*Galvalume is registered a trademark of BIEC International, inc.

# **SPANY Tile**

Overall Length Length of Cover Width of Cover

1325mm (52,16") 1265mm (49,80") 374mm (14,72") 0.473m<sup>2</sup> (5.07ft<sup>2</sup>) 2.11 tile/m<sup>2</sup> 3.0kg (6.61pd)

### Cross Section of a Roser stone coated steel roofing tile:



- Clear acrylic over-glaze protective coating.
- Roofing Granule coating
- Adhesive basecoat
- Protective surface coating Aluminum/ Zinc coating Commercial grade steel core Aluminum/ Zinc coating
- Protective surface coating

