

08/05/2021

## Formal Car-Mart Material Request:

**Planning Review** Victoria Nelson Long Range Planner  
(816) 969-1605 [Victoria.Nelson@cityofls.net](mailto:Victoria.Nelson@cityofls.net)

America's Car-Mart would like to request the approval of architectural metal panels for the new Car-Mart Sales and Detail Building. We are proposing to use MBCI Architectural wall panel FW-120-0 in "Slate Gray" and "Bone White" The metal wall panels are not the typical metal building panels from the past. The specified metal building panels are smooth with a clean modern look. Specified panels with factory finishes can have color peel and fade warranty up to 40 years, which will allow the building façade to be durable and low maintenance for many years for all surrounding areas and occupants. The metal panel style selected has become an acceptable finish material for many different kinds of highly visible commercial buildings of various uses. The selection of the material was to provide finish variations in texture from the typical EIFS and Block found in many commercial office building material requirements. IT was also selected as a wainscot material that is easily cleaned and replaced if damaged by motor vehicles. If damaged, the factory finished panel can easily be replaced if necessary, without disturbing the surrounding finishes.



**SLATE GRAY\***



**BONE WHITE\***

The breakdown of materials is provided on our color elevations for review. The break down is as follows:

### **Front Façade:**

METAL PANEL	687.5 SQ FT	47.6%
EIFS	426.35 SQ FT	29.5%
GLAZING	331.48 SQ FT	22.9%
<b>TOTAL</b>	<b>1445.33 SQ FT</b>	

### **Side Left Façade:**

METAL PANEL	295.7 SQ FT	23.4%
EIFS	669.89 SQ FT	53%
GLAZING	299.11 SQ FT	23.7%
<b>TOTAL</b>	<b>1,264.7 SQ FT</b>	

### **Side Right Façade:**

METAL PANEL	370.46 SQ FT	29.5%
EIFS	759.46 SQ FT	60.4%
GLAZING	125.89 SQ FT	10.0%
<b>TOTAL</b>	<b>1255.81 SQ FT</b>	

### **Back Façade:**

METAL PANEL	257.67 SQ FT	23%
EIFS	861.36 SQ FT	77%
<b>TOTAL</b>	<b>1119.03 SQ FT</b>	

08/05/2021



See example photos of specified metal panels and similar installations on various building types: Also Provided Color Selection PDF and Panel Data Sheet.



08/05/2021



08/05/2021



08/05/2021



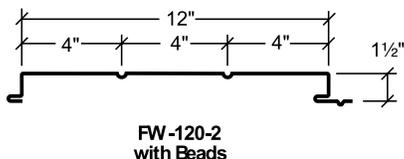
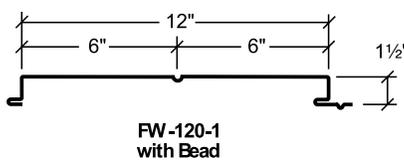
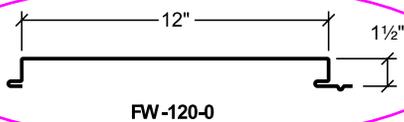
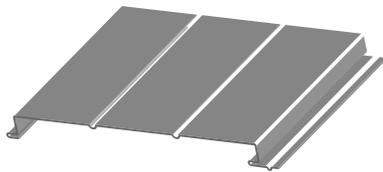
PROSED 12" WIDE METAL PANEL INSTALLED  
IN HORIZONTAL ORIENTATION



# CONCEALED FASTENING SYSTEMS

## FW-120 PANEL

The FW-120 panel is a concealed fastener wall and liner panel that provides a flat appearance. FW-120 is commonly used for architectural, commercial and industrial markets. The heavy gauge offering provides for large spanning capabilities, particularly in composite wall applications.



### Features and Benefits:

- FW-120 is available in a flat profile with no beads, one bead or two beads.
- The FW-120 Panel has been tested by a certified independent laboratory in accordance with ASTM test procedures for Air Infiltration and Water Penetration at the sidelap. Test results show no air leakage at 1.57PSF and no water penetration at 6.24PSF differential pressure.
- FW-120 carries Florida approval.

### Product Specifications

- **Applications:** Wall and Fascia
- **Coverage Widths:** 12"
- **Panel Attachment:** Concealed Fastening System

- **Gauges:** 24 (standard); 22 and 20 (optional)
- **Finishes:** Smooth (standard); Embossed (optional)
- **Coatings:** Signature® 300



# FW-120 PANEL

## CONCEALED FASTENING SYSTEMS

CATEGORY	CHARACTERISTIC	TEST METHOD	PURPOSE	RESULT
<b>ENVIRONMENTAL</b>	Air leakage	ASTM E283	Determines the air leakage rates of exterior windows, curtain walls, and doors under specified air pressure differences across the specimen	0.000 cfm/ft <sup>2</sup> at 6.24 psf static pressure 0.113 cfm/ft <sup>2</sup> at 20.00 psf static pressure
	Water Penetration	ASTM E331	Determines the resistance of exterior windows, curtain walls, skylights, and doors to water penetration when water is applied under uniform static air pressure difference	No uncontrolled water penetration through the panel joints at a static pressure of 13.24 psf
<b>STRUCTURAL</b>	Negative Wind Loads	ASTM E 1592	Provides a standard procedure to evaluate or confirm structural performance under uniform static air pressure difference	See Load Chart Section
	Positive Wind Load	AISI S100	North American Specification for the Design of Cold-Formed Steel Structural Members	See Section Properties and Allowable Load Table Section
<b>ROOF LISTINGS</b>	Roof Performance - Florida Approval	ASTM E 1592	Florida product approval is the approval of products and systems, which comprise the building envelope and structural frame, for compliance with the structural requirements of the Florida Building Code.	See FL# 11917.3

Descriptions and specifications contained herein were in effect at the time this publication was approved for printing. In a continuing effort to refine and improve products, MBCI reserves the right to discontinue products at any time or change specifications and/or designs without incurring obligation. To ensure you have the latest information available, please inquire or visit our website at [www.mbc.com](http://www.mbc.com). Application details are for illustration purposes only and may not be appropriate for all environmental conditions, building designs or panel profiles. Projects should be designed to conform to applicable building codes, regulations and accepted industry practices. If there is a conflict between this manual and project erection drawings, the erection drawings will take precedence. MBCI's insulated metal panel product line is manufactured by Metl-Span®. © 2020 MBCI®, part of the **Cornerstone Building Brands** family. All rights reserved. 0706209991131/RevA/MS/0720



# ARCHITECTURAL

## COLOR CHART



### ST. CLARE OF ASSISI CATHOLIC CHURCH AND SCHOOL

Location  
HOUSTON, TX

Panel Profile  
ROOF: LOKSEAM® SERIES 16"  
WALL: ARTISAN® SERIES 12"

BROWNSTONE



Metal Roof and Wall Systems

# COLOR CHART

## ARCHITECTURAL

- *Final color selection should be made from actual color chips.*
- For the most current information available, visit our website at [www.mbc.com](http://www.mbc.com).
- All products are available in smooth or embossed finish.
- Trim is available in all colors.
- Review the sample warranty for complete performance attributes and terms and conditions.

### SIGNATURE® 300 STANDARD COLORS



HARBOR BLUE ★  
SR .28 SRI 27



COLONIAL RED ★  
SR .34 SRI 35



MEDIUM BRONZE ★  
SR .33 SRI 34



PACIFIC BLUE ★  
SR .29 SRI 29



NATURAL PATINA\*\* ★  
SR .41 SRI 45



SNOW WHITE ★  
SR .65 SRI 78



SLATE GRAY ★  
SR .37 SRI 39



ALMOND ★  
SR .63 SRI 75



MIDNIGHT BRONZE ★  
SR .29 SRI 28



CLASSIC GREEN ★  
SR .27 SRI 26



EVERGLADE ★  
SR .33 SRI 34



BROWNSTONE ★  
SR .47 SRI 53



TUNDRA ★  
SR .46 SRI 52



SPRUCE ★  
SR .36 SRI 38



HUNTER GREEN ★  
SR .35 SRI 37



BRITE RED\*\* ★  
SR .49 SRI 55



BONE WHITE\*\* ★  
SR .70 SRI 85

\*\* Minimum quantities and/or extended lead times required.  
Please inquire.



**SIGNATURE® 200**  
STANDARD COLORS

Siliconized Polyester  
Polar White is a Straight Polyester.



BURNISHED SLATE★  
SR .34 SRI 36



POLAR WHITE★  
SR .58 SRI 68



CHARCOAL GRAY★  
SR .38 SRI 41



LIGHT STONE★  
SR .56 SRI 66



RUSTIC RED★  
SR .37 SRI 39



KOKO BROWN★  
SR .35 SRI 37



FERN GREEN★  
SR .29 SRI 29



COAL BLACK★  
SR .34 SRI 35



HAWAIIAN BLUE\*\*★  
SR .31 SRI 31



SOLAR WHITE\*\*★  
SR .71 SRI 86

**SIGNATURE® 300**  
METALLIC



COPPER METALLIC\*\*★  
SR .46 SRI 51



SILVER METALLIC★  
SR .52 SRI 58

Metallic coatings are directional. Panels and trim must be installed oriented in the same direction to prevent perceived shade variances.

\*\* Minimum quantities and/or extended lead times required. Please inquire.

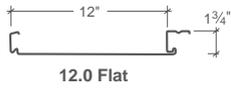
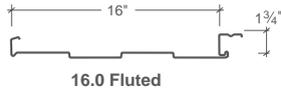
Signature® is a registered trademark of NCI Group, Inc.



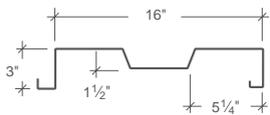
★ ENERGY STAR® Qualified



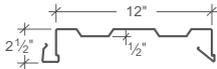
## DESIGNER® SERIES



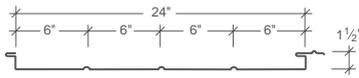
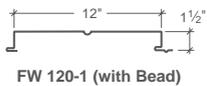
## SHADOWRIB™



## NUWALL®

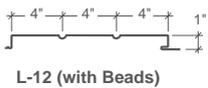
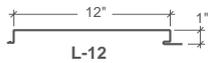


## WALL / LINER PANELS



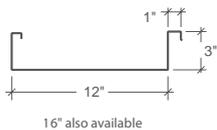
IL-180-0, IL-180-2 (with Beads) & IL-240-0 also available

## ARTISAN® SERIES



L-8 & L-10 also available

## CLASSIC® SERIES



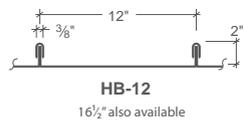
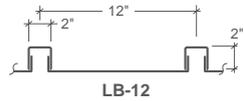
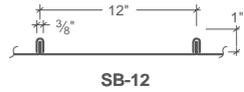
## QWIKLOK™



## FLEXLOC®

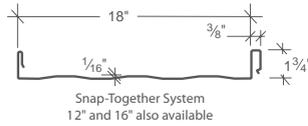


## CRAFTSMAN™ SERIES

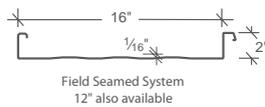


## STANDING SEAM Vertical Leg

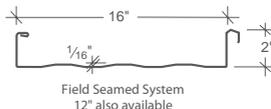
### LOKSEAM®



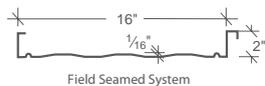
### BATTENLOK® HS



### SUPERLOK®

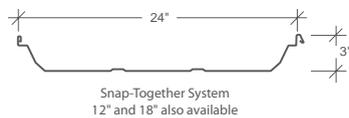


### CURVED BATTENLOK®



## Trapezoidal Leg

### ULTRA-DEK®



### DOUBLE-LOK®



## SR/SRI CHART

SIGNATURE® 300		
	SR #	SRI #
HARBOR BLUE	.28	27
COLONIAL RED	.34	35
MEDIUM BRONZE	.33	34
PACIFIC BLUE	.29	29
HUNTER GREEN	.35	37
SNOW WHITE	.65	78
SLATE GRAY	.37	39
ALMOND	.63	75
MIDNIGHT BRONZE	.29	28
CLASSIC GREEN	.27	26
EVERGLADE	.33	34
BROWNSTONE	.47	53
TUNDRA	.46	52
SPRUCE	.36	38
NATURAL PATINA	.41	45
BRITE RED	.49	55
BONE WHITE	.70	85

SIGNATURE® 300 METALLIC		
	SR #	SRI #
COPPER METALLIC	.46	51
SILVER METALLIC	.52	58

SIGNATURE® 200 - SILICONIZED POLYESTER		
	SR #	SRI #
BURNISHED SLATE	.34	36
POLAR WHITE	.58	68
CHARCOAL GRAY	.38	41
LIGHT STONE	.56	66
HAWAIIAN BLUE	.31	31
RUSTIC RED	.37	39
KOKO BROWN	.35	37
FERN GREEN	.29	29
COAL BLACK	.34	35
SOLAR WHITE	.67	86

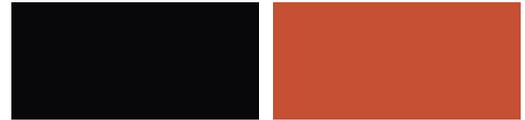
# COLORATION IMAGINATION



HUNTER GREEN ★

## SILVER CREST ELEMENTARY SCHOOL

Location  
**HERRIMAN, UT**  
Panel Profile  
**ROOF: CRAFTSMAN™ HB**



COAL BLACK ★

ORANGE\*

## HARLEY-DAVIDSON SHOP & STORE

Location  
**GILLETTE, WY**  
Panel Profile  
**ROOF: BATTENLOK® HS, PBR PANEL**  
**WALL: PBR PANEL**  
\* Custom Color



BRITE RED ★

CHARCOAL GRAY ★

## URBAN LOFTS

Location  
**HOUSTON, TX**  
Panel Profile  
**WALL: PBR PANEL, PBC PANEL**

## SOLAR REFLECTIVITY (SR)

Solar reflectivity or reflectance (SR) is the ability of a material to reflect solar energy from its surface back into the atmosphere. The SR value is a number from 0 to 1.0. A value of 0 indicates that the material absorbs all solar energy and a value of 1.0 indicates it is all reflected. ENERGY STAR® requires SR testing of both new and aged roof products. New products must have an SR value of 0.25 or higher for steep slope (above 2:12) roofing and an SR value of 0.65 or higher for low slope (2:12 or less) roofing. Aged testing takes three years to complete, so not all products that meet the initial requirements are qualified. For more information, please visit [www.energystar.gov](http://www.energystar.gov).

## SOLAR REFLECTANCE INDEX (SRI)

The SRI is used to determine compliance with LEED requirements and is calculated according to ASTM E 1980 using values for reflectance and emissivity. Emissivity is a material's ability to release absorbed energy. To meet LEED requirements, a roofing material must have an SRI of 29 or higher for steep slope (above 2:12) roofing and an SRI value of 78 or higher for low slope (2:12 or less) roofing. For more information, please visit [www.usgbc.org](http://www.usgbc.org).



## CUSTOM COLORS AND ACCESSORIES

If you're looking for a color that isn't on our chart, let us know and we'll work with you to find the exact color offering you need. MBCI also has a large selection of standard trim and flashing for each of its metal roof and wall panels. All trim and flashing are available in the same gauge and finish as our panel systems. Additionally, MBCI can make most any custom trim you require. Gutter systems are also available and can be ordered to match or in any other color you choose.

For complete performance specifications, product limitations and disclaimers, please consult MBCI's Paint and Galvalume Plus® warranties. Upon receipt of payment in full, these warranties are available by request for all painted or Galvalume Plus® prime products. Contact your local MBCI Sales Representative or visit [www.mbc.com](http://www.mbc.com) for sample copies.

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