IMPORTANT NOTICE

READ THIS MANUAL COMPLETELY PRIOR TO BEGINNING THE INSTALLATION OF THE SHADOWRIB™ ROOFING SYSTEM. THE MANUFACTURER DETAILS MUST BE FOLLOWED AS A MINIMUM TO INSURE APPROPRIATE WARRANTIES WILL BE ISSUED.

ALWAYS INSPECT EACH AND EVERY PANEL AND ALL ACCESSORIES BEFORE INSTALLATION. NEVER INSTALL ANY PRODUCT IF ITS QUALITY IS IN QUESTION. NOTIFY MBCI IMMEDIATELY IF ANY PRODUCT IS BELIEVED TO BE OUT OF TOLERANCE, SPECIFICATION OR HAS BEEN DAMAGED DURING SHIPMENT.

IF THERE IS A CONFLICT BETWEEN PROJECT INSTALLATION DRAWINGS PROVIDED OR APPROVED BY THE MANUFACTURER AND DETAILS IN THIS MANUAL, PROJECT INSTALLATION DRAWINGS WILL TAKE PRECEDENCE.

The Engineering data contained herein is for the expressed use of customers and design professionals. Along with this data, it is recommended that the design professional have a copy of the most current version of the North American Specification for the Design of Cold-Formed Steel Structural Members published by the American Iron and Steel Institute to facilitate design. This Specification contains the design criteria for cold-formed steel components. Along with the Specification, the designer should reference the most current building code applicable to the project jobsite in order to determine environmental loads. If further information or guidance regarding cold-formed design practices is desired, please contact the manufacturer.

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 obligations. To insure you have the latest information available, please inquire or visit our Website at www.mbci.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 engineered to conform to applicable building codes, regulations, and accepted industry practices. Insulation is not shown in these details for clarity.

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 upon request for all painted or Galvalume Plus® prime products. Sample copies can be found at www.mbci.com or contact your local MBCI Sales Representative.
# TABLE OF CONTENTS

A. General Description .............................................................. SR-2
B. Architect/Engineer Information ............................................. SR-3
C. 16" Properties/Load Tables .................................................. SR-4
D. Specifications ..................................................................... SR-5-7
E. Product Checklist ............................................................... SR-8 -10
F. Installation Guidelines ......................................................... SR-11
G. Unloading ............................................................................ SR-12-13
H. Handling & Panel Storage ..................................................... SR-14
I. Panel Attachment Methods
   1. Interior Fastener Attachment ........................................... SR-15
   2. Exterior Clip Attachment ................................................ SR-15-16
J. Clip Angle Attachment
   1. Base
      a. Standard .................................................................. SR-17
      b. Alternate .................................................................. SR-17
   2. Girt ............................................................................ SR-17
   3. Eave .......................................................................... SR-18
   4. Rake ........................................................................ SR-18
K. Eave Details
   1. Gutter ........................................................................ SR-19
   2. Eave Trim ................................................................... SR-19
L. Rake Details .................................................................... SR-20
M. Corner Installation
   1. Outside Corner
      a. Finish In High .......................................................... SR-21
      b. Finish In Low .......................................................... SR-21
   2. Inside Corner
      a. Finish In High .......................................................... SR-22
      b. Finish In Low .......................................................... SR-22
N. Framing Options
   1. Overhead Doors .............................................................. SR-23
   2. Walk Doors ................................................................ SR-24
   3. Windows ...................................................................... SR-25-26
O. Wall Splice ................................................................... SR-27
GENERAL DESCRIPTION

Coverage - 16"

Panel Depth - 3"

Outside Panel Attachment - ShadowRib™ Panel Clip

Inside Panel Attachment - Fastener #23

Substrate - Galvalume Plus® (Standard)

Gauge - 24 Gauge (Standard) 22 Gauge (Optional)

Coatings - Signature® 200, Signature® 300 and Signature® 300 Metallic.

Check Product Selection Chart below for specific coatings and gauges.

Finish - Smooth (Standard) Embossed (Optional)

PRODUCT SELECTION CHART

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>Signature® 300 Metallic</th>
<th>Signature® 300</th>
<th>Signature® 200</th>
<th>Galvalume Plus®</th>
</tr>
</thead>
<tbody>
<tr>
<td>ShadowRib™</td>
<td>●</td>
<td>■</td>
<td>●</td>
<td>■</td>
</tr>
<tr>
<td>16&quot; Wide</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Signature is a registered trademark of Metal Building Components, L.P. Galvalume Plus is a registered and protected trademark of BIEC International, Inc.

● — Available in any quantity.
■ — Minimum quantity may be required.

Other colors, finishes, gauges and materials available; please inquire.
ARCHITECT/ ENGINEER INFORMATION

1. **ShadowRib™** is a concealed fastener panel designed to provide an appealing shadow effect on walls, facades or equipment screens. The **ShadowRib™** system is based on a 16” module. Therefore, a panel layout for each wall should be provided to ensure that all framed openings begin and end in the “high” of the panel.

2. There are two methods of attachment to the substructure:
   a. Outside attachment, using a panel clip.
   b. Inside attachment, using a Fab-Lok Fastener (Fastener #23).

3. All primary and secondary framing must be erected, plumbed and squared with bolts tightened according to accepted building practices prior to beginning the installation of the **ShadowRib™** panel.

4. Wall girts, or structurals to which the **ShadowRib™** panels are to be attached, must be properly aligned. Structural members that are not in alignment will induce stress into the panels resulting in oil canning.

5. Heavier gauges and embossing minimizes oil canning. The industry standard for this product is 22 and 24 gauge material. Oil canning is not cause for rejection.

6. Panels may be spliced using MBCI’S splice trim. For continuous runs over 40’, please inquire.

7. Panel joints may be made airtight and water tight by field applying urethane sealant to the sidelap before engaging panels.

8. All details and recommendations in this manual are for general guidelines only. Actual project conditions may require special treatment and/or changes in this information. Contact MBCI regarding deviations from the published standards. Suitability of use and manner of use of any product contained herein is the sole responsibility of the specifier.

9. Insulation is most effectively applied in the wall cavity behind the point of panel attachment. Semi-rigid or rigid insulation can be inserted in the cavity of the panel between the vertical legs. Applying the panel over compressed blanket insulation can be difficult and may induce waviness or oil canning.

The installation information in this manual typically shows the **ShadowRib™** panel being applied over secondary structural framing members. The following chart describes the type of fastener that must be used with alternate structural substrates.

**FASTENER APPLICATION CHART**

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>STRUCTURAL (16 ga. to 12 ga.)</th>
<th>STRUCTURAL (3/8” Maximum)</th>
<th>STRUCTURAL (1/2” Maximum)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ShadowRib™</strong></td>
<td>Fastener #1 or Fastener #23</td>
<td>Fastener #6 or Fastener #23</td>
<td>Fastener #10 or Fastener #23</td>
</tr>
</tbody>
</table>
# SECTION PROPERTIES/LOAD TABLES

**ShadowRib™**

**16" Coverage**

<table>
<thead>
<tr>
<th>PANEL GAUGE</th>
<th>Fy (KSI)</th>
<th>WEIGHT (PSF)</th>
<th>TOP IN COMPRESSION</th>
<th>BOTTOM IN COMPRESSION</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Ixe (in.4/ft.)</td>
<td>Sxe (in.3/ft.)</td>
<td>Maxo (Kip in.)</td>
<td>Ixe (in.4/ft.)</td>
</tr>
<tr>
<td>24</td>
<td>0.2336</td>
<td>0.1765</td>
<td>5.2934</td>
<td>0.3233</td>
</tr>
<tr>
<td>22</td>
<td>0.3240</td>
<td>0.2541</td>
<td>7.6081</td>
<td>0.4503</td>
</tr>
</tbody>
</table>

**NOTES**

1. All calculations for the properties of ShadowRib panels are calculated in accordance with the 2007 edition of the North American Steel Construction Specifications.
2. Ixe is for deflection determination.
3. Sxe is for bending.
4. Maxo is allowable bending moment.
5. All values are for one foot of panel width.

## ALLOWABLE UNIFORM LOADS IN POUNDS PER SQUARE FOOT

### 24 Gauge (Fy = 50 KSI)

<table>
<thead>
<tr>
<th>SPAN TYPE</th>
<th>LOAD TYPE</th>
<th>SPAN IN FEET</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>3.0</td>
</tr>
<tr>
<td>SINGLE</td>
<td>POSITIVE WIND LOAD</td>
<td>340.7</td>
</tr>
<tr>
<td>2-SPAN</td>
<td>POSITIVE WIND LOAD</td>
<td>391.4</td>
</tr>
<tr>
<td>3-SPAN</td>
<td>POSITIVE WIND LOAD</td>
<td>489.2</td>
</tr>
<tr>
<td>4-SPAN</td>
<td>POSITIVE WIND LOAD</td>
<td>456.8</td>
</tr>
</tbody>
</table>

### 22 Gauge (Fy = 50 KSI)

<table>
<thead>
<tr>
<th>SPAN TYPE</th>
<th>LOAD TYPE</th>
<th>SPAN IN FEET</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>3.0</td>
</tr>
<tr>
<td>SINGLE</td>
<td>POSITIVE WIND LOAD</td>
<td>488.3</td>
</tr>
<tr>
<td>2-SPAN</td>
<td>POSITIVE WIND LOAD</td>
<td>563.6</td>
</tr>
<tr>
<td>3-SPAN</td>
<td>POSITIVE WIND LOAD</td>
<td>704.5</td>
</tr>
<tr>
<td>4-SPAN</td>
<td>POSITIVE WIND LOAD</td>
<td>657.8</td>
</tr>
</tbody>
</table>

**NOTES**

1. Allowable loads are based on uniform span lengths.
2. POSITIVE WIND LOAD has not been increased by 33.333%.
3. Above loads consider a maximum deflection ratio of L/120.
4. The weight of the panel has not been deducted from the allowable loads.
ShadowRib™

Specifier: Notation [#] means that text following is a specifier’s note or sample.

PART 1 - GENERAL

1.01 DESCRIPTION

# Specifier: Do not alter paragraph A. except by adding section title in brackets.

A. General:
1. Furnish all labor, material, tools, equipment and services for all preformed [# choose one: fascia, walls, equipment screens] as indicated, in accord with provisions of Contract Documents.
2. Completely coordinate with work of all other trades.
3. Although such work is not specifically indicated, furnish and install all supplementary or miscellaneous items, appurtenances and devices incidental to or necessary for a sound, secure and complete installation.
4. See Division 1 for General Requirements.

B. Related work specified elsewhere:
1. Structural steel: Section 05100.
2. Steel joists: Section 05200 or 05400.
3. Flashing and sheet metal: Section 07600.

# Specifier: Delete references to sections not used and add any references which become pertinent.

1.02 QUALITY ASSURANCE

A. Applicable standards:
4. ASTM A792-83-AZ50: Specifications for steel sheet, aluminum-zinc alloy coated (galvanized) by the hot dip process, general requirements (Galvalume®).

B. Manufacturer’s qualifications:
1. Manufacturer has a minimum of three years experience in manufacturing metal wall systems of this nature. Panels specified in this section shall be produced in a factory environment (not job site roll formed) with fixed-base roll forming equipment assuring the highest level of quality control. A letter from the manufacturer certifying compliance will accompany the product material submittals.

C. Installation contractor’s qualifications:
1. Installation contractor shall be an approved installer, certified by the manufacturer within one year of the beginning of installation of the metal wall system, specifically for MBCI’s ShadowRib™ metal wall system and meet the following minimum criteria:
   a. Maintain $250,000 minimum general liability insurance coverage.
b. Maintain statutory limits of worker’s compensation coverage as mandated by law.
c. Has no viable claims pending regarding negligent acts or defective workmanship on previously performed or current projects.
d. Has not filed for protection from creditors under any state or federal insolvency or debtor relief statutes or codes.
e. Project foreman is the person having received specific training in the proper installation of the specified metal wall system and will be present to supervise whenever material is being installed.
f. Provide five references from five different architects or building owners for projects that have been in service for a minimum of two years, stating satisfactory performance by the installation contractor.
g. Provide certification letter that installation contractor has a minimum of three years’ product installation experience immediately preceding the date upon which work is to commence.

1.03 SUBMITTALS

A. Shop drawings:
1. Submit complete shop drawings and erection details to the architect (owner) for review. Do not proceed with manufacture prior to review of shop drawings.
2. Shop drawings show methods of erection, elevations and plans of roof and wall panels, sections and details, anticipated loads, flashings, sealants, interfaces with all materials not supplied and proposed identification of component parts and their finishes.

B. Samples:
1. Submit samples and color chips for all proposed finishes.
a. Submit one 8 inch long sample of panel, including clips.
b. Submit two 3 inch x 5 inch color chip samples in color selected by the architect (owner).

C. Warranty(s):
1. Metal wall system manufacturer, upon final acceptance for project, furnish a warranty covering Galvalume Plus® against rupture, structural failure and perforation due to normal atmospheric corrosion exposure for a period of 20 years.
2. Covering paint finish against cracking, checking, blistering, peeling, flaking, chipping, chalking and fading for a period of [#choose one: twenty (20) years for wall panels (premium thermoset silicone polyester or twenty (20) years for wall panels (premium fluorocarbon coating produced with Kynar 500 or Hylar 5000 resin)].
D. Metal wall system fabrication certification:
   1. Submit a letter from the metal wall system manufacturer certifying the ShadowRib™ wall panels have been produced in a factory environment (not job site roll formed) with fixed-base roll forming equipment.

E. Installation contractor’s qualifications:
   1. Submit certificate from manufacturer certifying that installer of the metal wall system has met all of the criteria outlined in “1.02 C. Installer’s qualifications” and is an authorized installer certified by the manufacturer.
   2. Submit five references from five different architects or building owners for projects that have been in service for a minimum of two years, stating satisfactory performance by the installation contractor.

1.04 PRODUCT DELIVERY, STORAGE AND HANDLING

A. Delivery:
   1. Deliver metal wall system to job site properly packaged to provide protection against transportation damage.

B. Handling:
   1. Exercise extreme care in unloading, storing and erecting metal wall system to prevent bending, warping, twisting and surface damage.

C. Storage:
   1. Store all material and accessories above ground on well skidded platforms. Store under waterproof covering. Provide proper ventilation of metal wall system to prevent condensation build-up between each panel or trim/flashing component.

PART 2 - PRODUCTS
[# ShadowRib™; for fascia, walls, equipment screens]

2.01 MATERIALS

A. Metal wall system profile:
   1. 3 inch deep x 16 inch width with 1 1/2” deep x 5 1/4” wide fluting.

B. Metal wall system style:
   1. Fluted face.
   2. [# choose one]
      a. Concealed fasteners.
      b. Through-bolt connection.

C. Gauge: [# choose one]
   1. 22 gauge.
   2. 24 gauge.

D. Substrate:
   1. Galvalume® steel sheet, minimum yield of 50,000 PSI.

E. Texture: [# choose one]
   1. Smooth.
   2. Embossed (reduces oil canning effect).

F. Finish: [# choose one]
   1. Premium thermoset silicone polyester (20 year warranty).
   2. Premium fluorocarbon coating produced with Kynar 500 or Hylar 5000 resin (20 year warranty).

G. Color:
   1. Selected from metal wall system manufacturer’s standard offering.

H. Acceptable manufacturer:
   1. MBCI - Houston, TX - (281) 445-8555.

I. Other manufacturers desiring approval, comply with Section 01630.

2.02 FABRICATION

A. Material shall be in-line tension leveled prior to roll forming finished panel profile.

B. Roll form panels in continuous lengths, full length of detailed runs.

C. Standard panel length shall be no more than 45 feet long (for longer length availability, contact manufacturer).

D. Fabricate trim/flashing and accessories to detailed profiles.

E. Fabricate trim/flashing from same material as panel.

PART 3 - EXECUTION

3.01 SURFACE CONDITIONS

A. Examination:
   1. Inspect installed work of other trades and verify that such work is complete to a point where this work may continue.
   2. Verify that installation may be made in accordance with approved shop drawings and manufacturer’s instructions.

B. Discrepancies:
   1. In event of discrepancy, notify the architect (owner).
   2. Do not proceed with installation until discrepancies have been resolved.

3.02 INSTALLATION

A. Install metal wall system so that it is weathertight, without waves, warps, buckles, fastening stresses or distortion.

B. Install metal wall system in accordance with manufacturer’s instructions and shop drawings.

C. Provide concealed anchors at all panel attachment locations.

D. Install panels plumb, level and straight with seams parallel, conforming to design as indicated.

3.03 CLEANING, PROTECTION

A. Dispose of excess materials and remove debris from site.
B. Clean work in accordance with manufacturer’s recommendations.
C. Protect work against damage until final acceptance. Replace or repair to the satisfaction of the architect (owner), any work that becomes damaged prior to final acceptance.
D. Touch up minor scratches and abrasions.

END OF SECTION

DISCLAIMER: MBCI makes no warranty, express or implied, as to the merchantability or fitness for any particular purpose of any product manufactured by an optional manufacturer. If you choose to use a product manufactured by an optional manufacturer, as defined herein, you take the product as is and at your own risk. Descriptions and specifications contained herein were in effect at the time this publication was approved for printing. MBCI reserves the right to discontinue products at any time or change specifications and/or designs without notice and without incurring obligation.

To insure you have the latest information available, please contact MBCI or visit our web site at www.mbci.com
PRODUCT CHECKLIST

**ShadowRib™ Panel**

- 16" x 3" x 11½"
- 5⅛" x 16"

**ShadowRib™ Rake Trim**

- For use with "R" Panel Roofs

**ShadowRib™ Base Trim**

- 2½" x 3½" x 1"

**ShadowRib™ Clip**

- 5⅛" x 13½" x 3"

- 16 Gauge Painted

**ShadowRib™ Rake Trim**

- For use with Ultra-Dek® & Double-Lok® Roofs

**ShadowRib™ Head Trim**

- 95° x 1" x 3½"

**ShadowRib™ Cap/Jamb Trim**

- 1½" x 3½" or 1½" x 3⅛"

**ShadowRib™ Splice Trim**

- 2" x 3½" x 70°

- 3½" x 3½" x 160°

**NOTE:** All trim to be 26 gauge material unless noted.
**ShadowRib™ GENERAL INFORMATION**

**PRODUCT CHECKLIST**

**ShadowRib™ Outside Corner**

```
\[ \text{4" COLOR} \]
```

**ShadowRib™ Inside Corner**

```
\[ \text{4" COLOR} \]
```

**Zee Cap**

```
\[ \text{3 1/8" \ Color} \]
```

**Foam Tape**

```
\[ \text{COLOR} \]
```

**ShadowRib™ Furring Zee**

```
\[ \text{1" \ 3/4" \ or \ 1 1/2" \ Color} \]
```

**ShadowRib™ Starter Angle**

```
\[ \text{2" \ Color} \]
```

```
\[ \text{3" \ 1/2" \ 3/4" \ Color} \]
```

**ShadowRib™ Closures**

```
\[ \text{Outside} \]
```

```
\[ \text{Inside} \]
```

---

**NOTE:** All trim to be 26 gauge material unless noted.

SUBJECT TO CHANGE WITHOUT NOTICE  SEE [www.mbci.com](http://www.mbci.com) FOR CURRENT INFORMATION  EFFECTIVE JUNE 1, 2012  SR-9
PRODUCT CHECKLIST

Fastener #1
- Clip to 16-12 gauge girt
- Panel to clip
- Panel to starter angle

1/4"-14x1" Driller
3/8" Hex Washer Head with 5/8" O.D. washer

Fastener #6
- Clip to structural
  3/8" max. thickness

12-24x1/4" TEK 4.5
5/16" Hex Washer Head with 5/8" O.D. washer

Fastener #14
- Trim to trim
- Trim to panel

1/8" x 3/16" Pop Rivet
1/8" Diameter x 3/16" Grip Range

Fastener #14A
- Window frame to structural
- Trim to structural
- Starter angle to structural

1/8" x 3/8" Pop Rivet
1/8" Diameter x 3/8" Grip Range

Fastener #23
- For use with inside attachment method

1/8" x 3/16" Pop Rivet
1/8" Diameter x 3/16" Grip Range

Fas. 10-4
5/16" Hex Washer Head, with 5/8" O.D. washer

Fastener #4
- Trim to panel

1/4"-14x7/8" Long Life Lap TEK
3/8" Hex Washer Head, with sealing washer

Fastener #10
- Clip to structural
  1/2" max. thickness

1/4"-14 x 1" Type B
3/8" Hex Washer Head with 5/8" O.D. washer

Fastener #14A
- Window frame to structural
- Trim to structural
- Starter angle to structural

1/8" x 3/8" Pop Rivet
1/8" Diameter x 3/8" Grip Range
ShadowRib™ GENERAL INFORMATION

ShadowRib™ INSTALLATION GUIDELINES

I. Pre-Order
   A. Prior to ordering panels, all dimensions should be confirmed by field measurement.

II. Jobsite Storage and Handling
   A. Check the shipment against the shipping list.
   B. Damaged material must be noted on bill of lading.
   C. Panel crates should be handled carefully. A spreader bar of appropriate length is recommended for hoisting.
   D. Check to see that moisture has not formed inside the bundles during shipment. If moisture is present, panels should be uncrated and wiped dry, then restacked and loosely covered so that air can circulate between the panels.

III. Application Checklist
   A. Check substructure for proper alignment and uniformity to avoid panel distortion.
   B. All primary and secondary framing must be erected, plumbed and squared with bolts tightened according to accepted building practices prior to beginning the installation of the ShadowRib™ panel.
   C. MBCI recommends that all framed openings begin and end in the “high”.
   D. For installation of long panel runs, MBCI recommends the clip method.
   E. Periodic check of panel alignment is crucial to proper panel alignment.
   F. If there is a conflict between this manual and the project erection drawings, the erection drawings will take precedence.
   G. MBCI recommends the use of a screw gun with a speed range of 0 - 2000 RPM to properly install all fasteners referenced in this manual. Tools rated to 4000 RPM should never be used for self drilling fasteners typically applied with metal building components.
GENERAL INFORMATION

UNLOADING

Upon receiving material, check shipment against shipping list for shortages and damages. MBCI will not be responsible for shortages or damages unless they are noted on the shipping list.

Each bundle should be lifted at its center of gravity. Where possible, bundles should remain banded until final placement on roof. If bundles must be opened, they should be retied before lifting.

When lifting bundles with a crane, a spreader bar and nylon straps should be used. NEVER USE WIRE ROPE SLINGS, THEY WILL DAMAGE THE PANELS.

When lifting bundles with a forklift, forks must be a minimum of five feet apart. Do not transport open bundles. Drive slowly when crossing rough terrain to prevent panel buckling.

CAUTION

Improper unloading and handling of bundles and crates may cause bodily injury or material damage. The manufacturer is not responsible for bodily injuries or material damages during unloading and storage.
UNLOADING
(continued)

BLOCK AND BAND

This method of bundling is used for orders that are to be picked up by the customer or shipped by common carrier. 2 x 4’s are strapped under the bundles to allow access for straps or a forklift. Bundles less than 25' long may be handled by a forklift. The forklift should have at least 5' between forks. Bundles longer than 25' should be lifted utilizing a spreader bar with nylon straps.

FULL CRATE

This method is used on all overseas shipments or by customer’s order. Handling requirements are the same as block and band.
HANDLING/ PANEL STORAGE

Standing on one side of the panel, lift it by the seam. If the panel is over 10’ long, lift it with two or more people on one side of the panel to prevent buckling.

Do not pick panels up by the ends.

NOTE
Protective gloves should always be used while handling panels. OSHA safety regulations must be followed at all times.

Store bundled sheets off the ground sufficiently high to allow air circulation beneath bundle and to prevent rising water from entering bundle. Slightly elevate one end of bundle. Prevent rain from entering bundle by covering with tarpaulin, making provision for air circulation between draped edges of tarpaulin and the ground. PROLONGED STORAGE OF SHEETS IN A BUNDLE IS NOT RECOMMENDED. If conditions do not permit immediate erection, extra care should be taken to protect sheets from white rust or water marks.

Check to see that moisture has not formed inside the bundles during shipment. If moisture is present, panels should be uncrated and wiped dry, then restacked and loosely covered so that air can circulate between the panels.
ShadowRib™ PANEL

Sheeting Direction

Girt

Fastener #1
(2 per clip)

Fastener #4A
(At each clip)

ShadowRib™ Clip
[HW-6602]

ShadowRib™ Panel

SECTION A-A
PANEL CLIP ATTACHMENT

NOTES:
1. Attach base trim to base angle with Fastener #14A to hold in place until clips are installed (3 fasteners in each 10’ piece).
2. For alternate base detail, support angle should be 1 1/2” below floor level. Attach support angle to concrete 3’ o.c.
NOTES:
1. Do not install clips on eave strut or rake angle above the height of the wall panels.
NOTES:
1. Details shown above to be used for exterior clip or interior fastener method (clip method shown).
2. Optional foam tape provides an airtight seal at the top of the panels.
RAKE DETAIL

NOTES:
1. Details shown above to be used for exterior clip or interior fastener method (clip method shown).
2. Standard outside closures will fit properly on roof pitches of 2:12 or less.

SR-20    SUBJECT TO CHANGE WITHOUT NOTICE    SEE www.mbcicom FOR CURRENT INFORMATION    EFFECTIVE JUNE 1, 2012
NOTES:

1. Details shown above to be used for exterior clip or interior fastener method (clip method shown).

SUBJECT TO CHANGE WITHOUT NOTICE SEE www.mbc.com FOR CURRENT INFORMATION EFFECTIVE JUNE 1, 2012
NOTES:

1. Details shown above to be used for exterior clip or interior fastener method (clip method shown).

2. When sheeting toward an inside corner, stop the last panel 4" from the steel line. When sheeting away from an inside corner, start the first panel 3" from the steel line.
NOTES:
1. Seal the bottom of all panels above the overhead door inside the head trim with urethane sealant.
2. The first panel cut for an overhead door will require attachment to the building from the inside.
3. Top of jamb trim must be mitered to fit slope of head trim.
NOTES:
1. Seal the bottom of all panels above the walk door inside the head trim with urethane sealant.
2. The first panel cut for a walk door will require attachment to the building from the inside.
3. Top of jamb trim must be mitered to fit slope of head trim.
NOTES:
1. Details shown above to be used for exterior clip or interior fastener method (clip method shown).
2. Details shown utilize a straight fin window.
3. Foam tape can be applied to underside of sill trim to provide an airtight seal.

DETAILS AT WINDOWS

SECTION AT HEADER

SECTION AT SILL
NOTES:
1. All windows require a framed opening.
2. Install framed opening trim to top, bottom, and both sides of framed opening.
3. Install window from outside of building and attach to framed opening with Fastener #14A.
4. Install head trim at top and cap trim at bottom of window. Head trim and cap trim should be the width of the framed opening plus 4" in length.
5. Install jamb trim at both sides of the window. Jamb trim will fit inside of head trim and sill trim. Top of jamb trim must be mitered to fit slope of head trim.
6. Seal the bottom of all panels above the walk door inside the head trim with urethane sealant.
7. Seal window frame to trim on all four sides with urethane sealant.
NOTES:

1. Details shown above to be used for exterior clip or interior fastener method (clip method shown).
2. Fasten support angle to girt with Fastener #1 at 1' o.c.
3. Do not install clips to girt higher than the top of the panels.
4. Foam tape can be applied to underside of splice trim to provide an air tight seal.
<table>
<thead>
<tr>
<th>City</th>
<th>State</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Houston</td>
<td>TX</td>
<td>877-713-6224</td>
</tr>
<tr>
<td>Adel</td>
<td>GA</td>
<td>877-512-6224</td>
</tr>
<tr>
<td>Atwater</td>
<td>GA</td>
<td>800-829-9224</td>
</tr>
<tr>
<td>Dallas</td>
<td>TX</td>
<td>800-653-6224</td>
</tr>
<tr>
<td>Indianapolis</td>
<td>IN</td>
<td>800-735-6224</td>
</tr>
<tr>
<td>Jackson</td>
<td>MS</td>
<td>800-622-4136</td>
</tr>
<tr>
<td>Lubbock</td>
<td>TX</td>
<td>800-708-6224</td>
</tr>
<tr>
<td>Mattoon</td>
<td>IL</td>
<td>888-885-0468</td>
</tr>
<tr>
<td>Memphis</td>
<td>TN</td>
<td>800-206-6224</td>
</tr>
<tr>
<td>Oklahoma City</td>
<td>OK</td>
<td>800-597-6224</td>
</tr>
<tr>
<td>Omaha</td>
<td>NE</td>
<td>800-458-6224</td>
</tr>
<tr>
<td>Phoenix</td>
<td>AZ</td>
<td>888-533-6224</td>
</tr>
<tr>
<td>Richmond</td>
<td>VA</td>
<td>800-729-6224</td>
</tr>
<tr>
<td>Rome</td>
<td>NY</td>
<td>800-559-6224</td>
</tr>
<tr>
<td>Salt Lake</td>
<td>UT</td>
<td>800-874-2404</td>
</tr>
<tr>
<td>San Antonio</td>
<td>TX</td>
<td>800-598-6224</td>
</tr>
</tbody>
</table>
For current information, visit our website at www.mbci.com.

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.mbci.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.