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Section at Base Angle
Shadow Panel Walls
BA02/AD

SECTION AT BASE ANGLE
SHADOW PANELS WALLS

WALL PANEL
WALL MAIN FASTENER(S)
#12X1 SDYC W/NUT BLANK
1'-4" O.C.
BASE ANGLE
SPBA1
CLOSURE
SHP- I/O
REQUIRED IF ORDERED
GIRTLINE OR
STRUCTURAL LINE
BASE ANGLE FASTENER (BY OTHERS)
1/4"Ø CONCRETE ANCHOR (min.)
3'-0" O.C. (max.)

Download the DWG file by clicking here.

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Revised 7/27/2017
Section at Base Angle
Shadow Panel Walls with Alternate Fab-Lok Fastener
BA02A/AD

Download the DWG file by clicking here.

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Revised 7/27/2017
Section at Base Girt
Shadow Panel Walls with Alternate Fab-Lok Fastener
BA03A/AD

BLANKET INSULATION

GIRT LINE OR STRUCTURAL LINE

WALL PANEL

(ALTERNATE) FAB-LOK® FASTENER NO. FAS 10-4 1-4" O.C.

CLOSURE SHP-I/O REQUIRED IF ORDERED

BASE GIRT WHEN NON-SYMETRICAL, PUNCHING WILL BE OPP. HAND IN RELATION TO THE OTHER GIRTS DUE TO BASE GIRT ORIENTATION.

GTS

SPFPPV2

SECTION AT BASE GIRT
SHADOW PANEL WALLS WITH ALTERNATE FAB-LOK® FASTENER

Download the DWG file by clicking here.

To Section Index

Revised 7/27/2017
SECTION AT BASE GIRT
SHADOW PANEL WALLS

GIRT LINE OR STRUCTURAL LINE

BASE GIRT
WHEN NON-SYMETRICAL, PUNCHING WILL BE OPP. HAND IN RELATION TO THE OTHER GIRTS DUE TO BASE GIRT ORIENTATION.

WALL PANEL

WALL MAIN FASTENER(S)
#12X1 SDYC W/NUT
1'-4" O.C.

CLOSURE
SHP-I/O
REQUIRED IF ORDERED

GTS

SPFPFV2

3"

4"

Download the DWG file by clicking here.

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Section at Base Channel
Shadow Panel Walls with Alternate Fab-Lok Fastener
BA04A/AD

SECTION AT BASE CHANNEL
SHADOW PANEL WALLS WITH ALTERNATE FAB-LOK® FASTENER

Download the DWG file by clicking here.

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Section at Base Channel
Shadow Panel Wall
BA04/AD

SECTION AT BASE CHANNEL
SHADOW PANEL WALLS

Download the DWG file by clicking here.

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Revised 7/27/2017
Section Base w/ Angle GA-2
Shadow Panel Walls with Alternate Fab-Lok Fastener
BA05A/AD

SECTION AT BASE W/ANGLE GA-2
SHADOW PANEL WALLS WITH ALTERNATE FAB-LOK® FASTENER

Download the DWG file by clicking here.

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SECTION AT BASE W/ANGLE GA-2

SHADOW PANEL WALLS

Download the DWG file by clicking here.

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Base Angle Installation
Shadow Panel Walls
BA31/AD

Download the DWG file by clicking here.

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Issued 9/28/2016
Closure Cap Flashing Installation at Eave
Shadow Panel Walls
EA37/AD

Download the DWG file by clicking here.

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Revised 7/27/2017
Building Alignment

GE01/AA

SQUARE
SQUARE

RIGID FRAME

ROD BRACING

THE FIRST STEP IN THE SUCCESSFUL INSTALLATION OF THE ROOF OR WALLS IS TO HAVE THE PRIMARY FRAMING PLUMB AND SQUARE. FOR BEST RESULTS, IT IS RECOMMENDED THAT A TRANSIT BE USED WHEN ERECTING THE STRUCTURAL STEEL. BE SURE TO READ THE GENERAL ERECTION GUIDE PRIOR TO COMMENCING ERECTION.

BUILDING ALIGNMENT

Download the DWG file by clicking here.

To Section Index

Issued 9/28/2016
Girt Blocking

GE03/AA

Installation of the building walls is generally done before the roof. Before starting the wall sheathing or insulation, check to be sure that the eave strut and girts are straight and plumb. To align the girts, cut temporary wood blocking to the proper length and install between the lines of girts. This blocking can be moved from bay to bay which will reduce the number of pieces required. Normally, one line of blocking per bay will be sufficient.

Typical construction of the wood blocking is shown above. A 2 x 6 minimum board size should be used. Refer to the cross section framing drawings to determine the girt size and spacings.

Download the DWG file by clicking here.

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Issued 9/28/2016
SAFETY NOTES:

THE METAL BUILDING SUPPLIER STRONGLY RECOMMENDS THAT SAFE WORKING CONDITIONS AND ACCIDENT PREVENTION PRACTICES BE THE TOP PRIORITY ON ANY JOB SITE.

LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS SHOULD ALWAYS BE FOLLOWED TO HELP ENSURE WORKER SAFETY.

MAKE CERTAIN ALL EMPLOYEES KNOW THE SAFEST AND MOST PRODUCTIVE WAY OF ERECTING A BUILDING. EMERGENCY TELEPHONE NUMBERS, LOCATIONS OF FIRST AID STATIONS AND EMERGENCY PROCEDURES SHOULD BE KNOWN TO ALL EMPLOYEES.

DAILY MEETINGS HIGHLIGHTING SAFETY PROCEDURES, THE USE OF HARD HATS, RUBBER SOLE SHOES FOR ROOF WORK, PROPER EQUIPMENT FOR HANDLING MATERIAL AND SAFETY NETS WHERE POSSIBLE ARE RECOMMENDED ERECTION PRACTICES.

THE METAL BUILDING SUPPLIER INTENDS THAT THESE DRAWINGS BE INTERPRETED AND ADMINISTERED WITH SOUND JUDGMENT CONSISTENT WITH GOOD SAFETY PRACTICES.

ALL SAFETY PRECAUTIONS, OSHA SAFETY REQUIREMENTS, OR ANY OTHER APPROPRIATE SAFETY REQUIREMENTS, CUSTOMARY OR STATUTORY, MUST BE ADHERED TO, TO ENSURE MAXIMUM WORKER SAFETY.

IF OIL OR OTHER SLIPPERY SUBSTANCES ARE SPILLED ON THE ROOF/DECK PANELS, WIPE THEM OFF IMMEDIATELY TO PREVENT SLIPPING OR FALLING.

YOU SHOULD MAINTAIN A FIRM, SAFE POSITION WHEN USING ANY TOOL.

YOU SHOULD MAINTAIN A CONSTANT AWARENESS OF YOUR LOCATION IN RELATION TO THE ROOF EDGE WHEN USING TOOLS AND MACHINES OR PERFORMING ANY OTHER FUNCTION ON THE ROOF AREA.

DO NOT UNDER ANY CIRCUMSTANCES STEP OR WALK ON THE SURFACE OF ANY FIBERGLASS SKYLIGHT. IF FOOT TRAFFIC IS NECESSARY OVER SKYLIGHT, USE WALK BOARDS THAT ARE PROPERLY SUPPORTED BY THE BUILDING PURLINS.

SAFETY COMMITMENT

GE70
AA

Download the DWG file by clicking here.
Panel Closure Detail at Rake (Slopes Less than 1 1/2:12)
Shadow Panel Walls
RA01/AD

NOTES:
1. OUTSIDE CLOSURE, SHP-I/O
   REQUIRED IF ORDERED FOR BUILDING SLOPES
   1 1/2 : 12 OR LESS

2. BEVEL CLOSURE
   REQUIRED IF ORDERED FOR BUILDING SLOPES
   GREATER THAN 1 1/2 : 12

Panel Closure Detail at Rake
Shadow Panel Walls
RA01 AD

Download the DWG file by clicking here.

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Revised 7/27/2017
Panel Closure Detail at Rake (Slopes Less Than 1 1/2:12)
Shadow Panel Walls With Alternate Fab-Lok Fastener
RA01B/AD

NOTES:
1. OUTSIDE CLOSURE, SHP-I/O
   REQUIRED IF ORDERED FOR BUILDING SLOPES
   1 1/2 : 12 OR LESS

2. BEVEL CLOSURE
   REQUIRED IF ORDERED FOR BUILDING SLOPES
   GREATER THAN 1 1/2 : 12

PANEL CLOSURE DETAIL AT RAKE
SHADOW PANEL WALLS WITH ALTERNATE FAB-LOK® FASTENER®

Download the DWG file by clicking here.

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Revised 7/27/2017
ROOF AND WALL PANELS

ROOF AND WALL PANELS INCLUDING COLOR COATED, ALUMINUM COATED AND GALVANIZED, PROVIDE EXCELLENT SERVICE UNDER WIDELY VARIED CONDITIONS. ALL UNLOADING AND ERECTION PERSONNEL SHOULD FULLY UNDERSTAND THAT THESE PANELS ARE QUALITY MERCHANDISE WHICH MERIT CAUTIOUS CARE IN HANDLING.

UNDER NO CIRCUMSTANCES SHOULD PANELS BE HANDLED ROUGHLY. PACKAGES OF SHEETS SHOULD BE LIFTED OFF THE TRUCK WITH EXTREME CARE TAKEN TO INSURE THAT NO DAMAGE OCCURS TO ENDS OF THE SHEETS OR TO SIDE RIBS. THE PACKAGES SHOULD BE STORED OFF THE GROUND SUFFICIENTLY HIGH ENOUGH TO ALLOW AIR CIRCULATION UNDERNEATH THE PACKAGES. THIS AVOIDS GROUND MOISTURE AND DETERS PEOPLE FROM WALKING ON THE PACKAGES. ONE END OF THE PACKAGE SHOULD ALWAYS BE ELEVATED ABOVE THE LOWER END TO ENCOURAGE DRAINAGE IN CASE OF RAIN.

ALL METAL PANELS ARE SUBJECT TO SOME DEGREE TO LOCALIZED DISCOLORATION OR STAIN WHEN WATER IS TRAPPED BETWEEN THEIR CLOSELY FITTED SURFACES. PANEL MANUFACTURER EXERCISES EXTREME CAUTION DURING FABRICATING AND SHIPPING OPERATIONS TO INSURE THAT ALL PANEL STOCK IS KEPT DRY. HOWEVER, DUE TO CLIMATIC CONDITIONS, WATER FORMED BY CONDENSATION OF HUMID AIR CAN BECOME TRAPPED BETWEEN STACKED SHEETS. WATER CAN ALSO BE TRAPPED BETWEEN THE STACKED SHEETS WHEN EXPOSED TO RAIN. THIS DISCOLORATION CAUSED BY TRAPPED MOISTURE IS OFTEN CALLED WET STORAGE STAIN.

THE STAIN IS USUALLY SUPERFICIAL AND HAS LITTLE EFFECT ON THE APPEARANCE OR SERVICE LIFE OF THE PANELS AS LONG AS IT IS NOT PERMITTED TO REMAIN ON THE PANELS. HOWEVER, MOISTURE IN CONTACT WITH THE SURFACE OF THE PANELS OVER AN EXTENDED PERIOD CAN SEVERELY ATTACK THEIR FINISH AND REDUCE THEIR EFFECTIVE SERVICE LIFE. THEREFORE, IT IS IMPERATIVE THAT ALL PANELS BE INSPECTED FOR MOISTURE UPON RECEIPT OF THE ORDER. IF MOISTURE IS PRESENT, DRY THE PANELS AT ONCE AND STORE IN A DRY, WARM PLACE, IF POSSIBLE.

WHEN HANDLING OR UNCRLATING THE PANELS, LIFT, RATHER THAN SLIDE, THEM APART. BURLING EDGES MAY SCRATCH THE COATED SURFACES WHEN SHEETS ARE SLID OVER ONE ANOTHER. NEVER ALLOW PANELS TO BE WALKED ON WHILE ON THE GROUND.

ROUGH AND IMPROPER HANDLING OF PANELS IS INEXCUSABLE AND A PRIME EXAMPLE OF POOR JOB SUPERVISION.

CAUTION: PANELS ARE SLIPPERY. OIL OR WAX THAT HAS BEEN USED ON THE ROOF AND WALL PANELS FOR PROTECTION AGAINST WEATHER DAMAGE WILL MAKE THEM A VERY SLIPPERY WALKING SURFACE. WIPE DRY ANY OIL THAT HAS PUDDLED FROM BUNDLES STORED ON A SLOPE. DEW, FROST OR OTHER FORMS OF MOISTURE GREATLY INCREASE THE SLIPPERINESS OF THE PANELS.

Download the DWG file by clicking here.
Fastener Layout Required for Wall Insulation
Shadow Panel Walls with Alternate Fab-Lok Fastener
WC05AA/AD

Download the DWG file by clicking here.
Fastener Layout
16" Shadow Panel Walls (ASTM E283 and ASTM E331 Requirements)
WC05A/AD

Download the DWG file by clicking here.
Fastener Layout
16" Shadow Panel Walls
WC05/AD

Download the DWG file by clicking here.

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Issued 9/28/2016
Panel Splice Detail
Shadow Panel Wall with Alternate Fab-Lok Fastener
WC06A/AD

(PARTIAL) FAB-LOK®
FASTENER NO. FAS 10-4
1'-4" O.C.

STRUCTURAL FASTENER(S)
(2)#12X1 1/4
3'-0" O.C.

INSIDE CLOSURE
SHP-1/O
REQUIRED IF ORDERED

SPICE FLASHING
SPSF1

OUTSIDE CLOSURE
SHP-1/O
REQUIRED IF ORDERED

UPPER SHADOW PANEL

LOWER SHADOW PANEL

GIRT

ANGLE
GA-1

BLANKET INSULATION

Download the DWG file by clicking here.

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Revised 7/27/2017
Panel Splice Detail
Shadow Panel Walls
WC06/AD

STRUCTURAL FASTENER(S)
(2)#12X1 1/4
3'-0" O.C.

GIRT

ANGLE
GA-1

WALL MAIN FASTENER(S)
#12X1 SDYC W/NUTBLK
1'-4" O.C.

UPPER SHADOW PANEL
INSIDE CLOSURE
SHP-I/O
REQUIRED IF ORDERED

SPLICE FLASHING
SPSF1

OUTSIDE CLOSURE
SHP-I/O
REQUIRED IF ORDERED

LOWER SHADOW PANEL

SAFETY PRECAUTION:
WORKERS SHOULD BE TRAINED IN
THE PROPER ERECTION PROCEDURES
FOR ALL JOBS.

Download the DWG file by clicking here.

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Revised 7/27/2017
* NOTE: CAULK FLASHING AT LAPS

* WALL SPLICE FLASHING SPSF1

STRUCTURAL FASTENER(S) (2) #12X1 1/4 3'-0" O.C.

GIRT

ANGLE GA-1

OUTSIDE CLOSURE SHP-I/O REQUIRED IF ORDERED

UPPER PANEL TYPICAL

BLIND RIVET 1/8 RIVET (4) PER LAP

LOWER PANEL

WALL PANEL SPLICE
SHADOW PANEL WALLS

WC07
AD

Download the DWG file by clicking here.

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Revised 7/27/2017
Download the DWG file by clicking here.

To Section Index
Panel Attachment to Girt
Shadow Panel Walls with Alternate Fab-Lok Fastener
WC16A/AD

NOTES:
1. UPON INSTALLATION OF FIRST WALL PANEL AND PRIOR TO SUBSEQUENT PANELS, IT IS RECOMMENDED THAT A 1/8" Ø PILOT HOLE BE PRE-DRILLED (FROM THE OUTSIDE OF THE BUILDING) THROUGH THE FEMALE SEAM, INSULATION AND SECONDARY MEMBER AS SHOWN. THIS PILOT HOLE WILL AID IN THE LOCATION OF PANEL RIBS WHEN DRILLING THE 5/16" Ø HOLES NECESSARY FOR FAB-LOK® FASTENER INSTALLATION.
2. ONCE PILOT HOLE HAS BEEN DRILLED, PLACE SUBSEQUENT PANEL FIRMLY INTO PLACE AND USE PILOT HOLE IN THE GIRT TO DRILL 5/16" Ø HOLE (FROM INSIDE OF BUILDING) THROUGH THE SECONDARY MEMBER, INSULATION AND NESTED PANEL SEAMS.
3. INSERT FABLOK FASTENER INTO 5/16" Ø HOLE. SECURE OUTER COLLAR OF FASTENER WITH 5/8" BOX WRENCH AND TIGHTEN INNER HEX HEAD SCREW AS REQUIRED. A SPECIAL POWER DRIVER EQUIPPED WITH A HOLDING SLEEVE IS ALSO AVAILABLE THROUGH THE FASTENER MANUFACTURER.
4. REPEAT STEPS AS REQUIRED AT ALL SECONDARY FRAMING MEMBER TO PANEL CONNECTIONS.
5. NOTE THAT SOME LOCATIONS, ESPECIALLY AT PRIMARY FRAMES, MAY REQUIRE THE PANEL CLIP TO MEMBER CONNECTION METHOD. SEE DETAILS WC17AD, WC18AD AND WC19AD.

Download the DWG file by clicking here.

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Issued 5/5/2017
Panel Attachment to Girt
Shadow Panel Walls
WC16/AD

WALL MAIN FASTENER(S)
(SEE DETAIL WC05AD
FOR FASTENER LAYOUT)
#12X1 SDYC W/NUTBLK

SHADOW PANEL (TYP.)
GIRT

PANEL ATTACHMENT TO GIRT
SHADOW PANEL WALLS

Download the DWG file by clicking here.

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Issued 9/28/2016
Panel Clip Application
By Pass Girts / Shadow Panel Walls
WC17/AD

Download the DWG file by clicking here.

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Issued 9/28/2016
Panel Clip Application
Inset Girts / Shadow Panel Walls
WC18/AD

Download the DWG file by clicking here.
Panel Clip Application
Full Flush Girts / Shadow Panel Walls
WC19/AD

Download the DWG file by clicking here.

To Section Index
Typical Corner Detail at Panels
Shadow Panel Walls
WC20/AD

GENERAL NOTES:

1. PANELS MUST BE INSTALLED SQUARE WITH BUILDING FRAME.
2. WHEN ACCESS TO PANEL IS OBSTRUCTED BY COLUMN OR ANY OTHER FRAMING MEMBER CLIPS RFAC-1 ARE USED.
3. USE TOUCH-UP PAINT WHEN NECESSARY WITH AN ARTIST TYPE BRUSH. DO NOT USE AEROSOL TYPE PAINT FOR TOUCH-UP.
4. GUTTERS ARE TO BE BONDED TO PANEL. VERTICAL GUTTER FLASHING MISMATCH TO PANELS AT GUTTER LOCATIONS.

Typical Corner Detail at Panels
Shadow Panel Walls

Download the DWG file by clicking here.

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Revised 7/27/2017
Corner Flashing Detail (Outside)
Shadow Panel Walls with Alternate Fab-Lok Fastener
WC21A/AD

Download the DWG file by clicking here.
Corner Flashing Detail (Outside)
Shadow Panel Walls
WC21/AD

Download the DWG file by clicking here.
Panel Base Detail
Shadow Panel Walls
WC31/AD

SAFETY PRECAUTION:
WORKERS SHOULD ALWAYS WEAR
GLOVES WHEN HANDLING METAL
SURFACES WITH SHARP EDGES.

PANEL BASE DETAIL
SHADOW PANEL WALLS

Download the DWG file by clicking here.

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Revised 7/27/2017
Facade, Canopy and Lean-To Connections to Main Bldg.
Shadow Panel Walls
WC35/AD

Download the DWG file by clicking here.
Panel Closure Detail at Endwall (Slopes Less than 1 1/2:12)
Shadow Panel Walls
WC37/AD

SAFETY PRECAUTION:
WORKERS SHOULD ALWAYS WEAR GLOVES WHEN HANDLING METAL SURFACES WITH SHARP EDGES.

FIELD CUT ENDWALL PANELS AS REQUIRED FOR SLOPES GREATER THAN 1 1/2:12

CAP FLASHING
SHCF4
FIELD NOTCH (AS REQ'D)
w/ 1/8 RIVET
16 O.C.

GABLE MEMBER

ENDWALL PANEL

OUTSIDE CLOSURE REQUIRED IF ORDERED

PANEL CLOSURE DETAIL AT ENDWALL
SHADOW PANEL WALLS

Download the DWG file by clicking here.

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Revised 7/27/2017
USE WOOD BLOCKING TO ELEVATE AND SLOPE THE PANELS IN A MANNER THAT WILL ALLOW MOISTURE TO DRAIN. WOOD BLOCKING PLACED BETWEEN PANEL BUNDLES WILL PROVIDE ADDITIONAL AIR CIRCULATION. COVER THE AREA BENEATH PANELS WITH POLYETHYLENE OR A TARPALIN TO PREVENT DIRT AND DEBRIS FROM ENTERING FEMALE SEAM.

SAFETY PRECAUTION
MAINTAIN A CLEAN AND ORDERLY WORK AREA.

Download the DWG file by clicking here.
Download the DWG file by clicking here.

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Revised 7/27/2017
Panel Marking
Shadow Panel (12” & 16” Panel Widths)
WC63/AD

Download the DWG file by clicking here.
Direction of Wall Panel Erection
Shadow Panel Walls with Alternate Fab-Lok Fastener
WC64A/AD

Download the DWG file by clicking here.
Direction of Wall Panel Erection
Shadow Panel Walls
WC64/AD

From the building Anchor B8t Plan or Erection Drawings locate the distance to the centerline of the endframe of the building corner. Ensure that the endframe is plumb. Attach the Shadow Panel clip at the centerline of the endframe as shown above. Hug the clip with female edge of the first panel and attach the male edge of the panel on the structural or girt line as indicated above. Sheeting can be started from either end of the building and continued either in direction of left to right or right to left as indicated. Refer to the panel installation Detail WC12AD before sheeting begins.

Download the DWG file by clicking here.

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Issued 9/28/2016
Endwall Panel Beveling Detail
Shadow Panel Walls
WC67/AD

ALL ENDWALL PANELS ARE SHIPPED FROM FACTORY SQUARE CUT. BUILDINGS WITH ROOF SLOPE 1 1/2 TO 12 OR GREATER MUST BE FIELD CUT FOR ROOF SLOPE.

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<td>1 1/2&quot;</td>
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<td>2 to 12</td>
<td>2 11/16&quot;</td>
<td>2&quot;</td>
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<tr>
<td>2 1/2 to 12</td>
<td>3 5/16&quot;</td>
<td>2 1/2&quot;</td>
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<td>3 to 12</td>
<td>4&quot;</td>
<td>3&quot;</td>
</tr>
<tr>
<td>4 to 12</td>
<td>5 5/16&quot;</td>
<td>4&quot;</td>
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</tbody>
</table>

NOTE:
LEFT HAND PANEL BEVELING SHOWN
RIGHT HAND PANEL BEVELING OPPOSITE

ENDWALL PANEL BEVELING DETAIL
SHADOW PANEL WALLS

Download the DWG file by clicking here.
Panel Layout for 5’, 10’, 15’ and 20’ Exterior Endwall Bays
Shadow Panel Walls
WC71/AD

Download the DWG file by clicking here.

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Issued 9/28/2016
ERECTION NOTES:

1. ALL AREAS WHERE MASTIC IS TO BE APPLIED SHOULD BE WIPED CLEAN WITH A MILD DETERGENT OR AN ALL PURPOSE CLEANER BEFORE MASTIC APPLICATION. THIS WILL INSURE A GOOD SEALING SURFACE AND IMPROVE WEATHER TIGHTNESS.

2. THE BLANKET INSULATION MANUFACTURER RECOMMENDS THAT DOUBLE SIDED TAPE BE USED TO SECURE THE INSULATION TO THE EAVE. THE METAL BUILDING SUPPLIER IS NOT RESPONSIBLE FOR THE INSTALLATION OR ATTACHMENT OF THE INSULATION.

3. OIL CANNING MAY BE INDUCED IF PANEL IS PUSHED OR FORCED TO ONE SIDE OR IF GIRT IS NOT IN ALIGNMENT WITH BASE ANGLE AND EAVE STRUT.

4. WHEN FIELD CUTTING PANELS OR TRIM DO NOT USE ABRASIVE SAWS OR OTHER CUTTING METHODS WHICH PRODUCE HOT METAL PARTICLES OR BURN THE CUT EDGES. THESE METHODS WILL DAMAGE THE PAINTED AND GALVALUME FINISH AND VOID ANY WARRANTIES. USE DOUBLE CUT SHEARS, NIBBLERS OR OTHER CUTTING DEVICES WHICH DO NOT PRODUCE HOT METAL PARTICLES OR BURNED EDGES.

Download the DWG file by clicking here.