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TRAPEZOIDAL SEAM ROOF PANELS

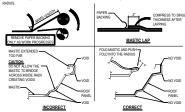
## EA6010 - CFR GENERAL NOTES

Download the DWG file by clicking here.

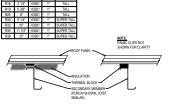
### DESIGN AND PERFORMANCE CRITERIA

TED ROOF.
ITED STANDING SEAM ROOF PANELS ARE OFTEN PROVIDED BY MBS. IN THIS CASE, GUTTER BF
ISIDE CLOSURES WILL BE PAINTED TO MATCH THE ROOF COLOR AS A STANDARD.

## MASTIC APPLICATION



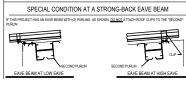




THERMAL BLOCKS



### IELD CUTTING PANELS







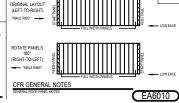












### **Detailer Notes:**

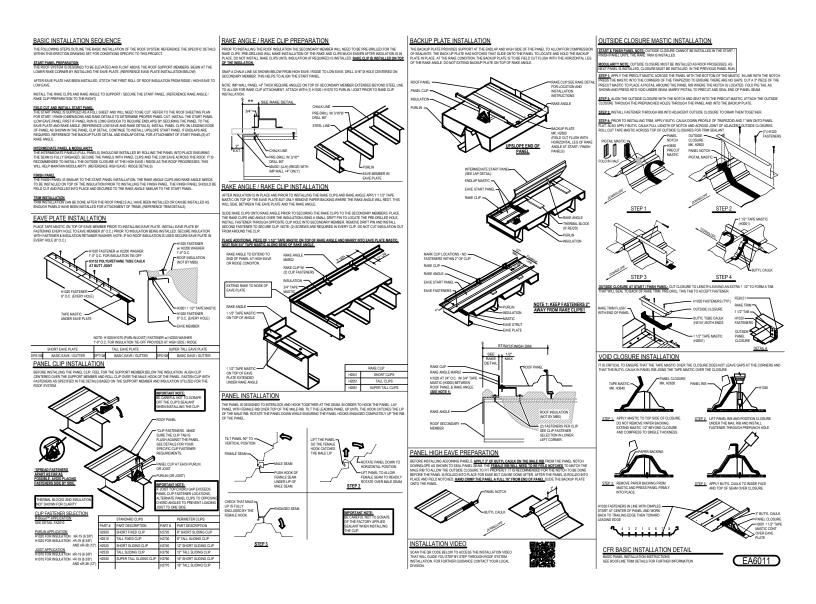
1) THIS DETAIL REQUIRED ON EVERY TRAPEZOIDAL ROOF PROJECT.

: 07.13.23 (MR2023.07) **CERTIFIED ERECTION DETAILS** Detail Size (W x H): 4 x 3 Issued

TRAPEZOIDAL SEAM ROOF PANELS

## EA6011 - CFR BASIC PANEL INSTALLATION

Download the DWG file by clicking here.



## **Detailer Notes:**

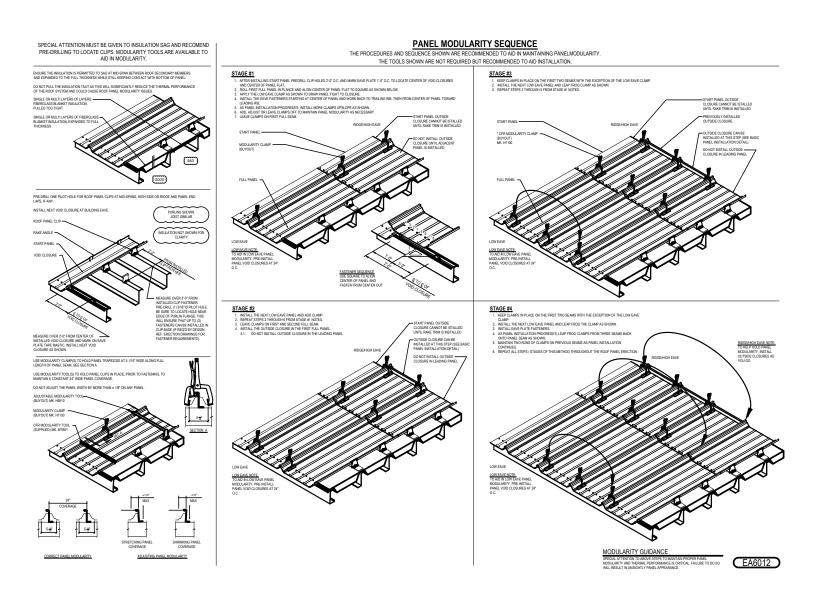
- 1) THIS DETAIL REQUIRED ON EVERY TRAPEZOIDAL ROOF PROJECT.
- 2) TURN ON THE CORRECT LAYER BASED ON THE SPECIFIC TRAPEZOIDAL PANEL PROFILE AND TURN OFF THE PANEL PROFILES NOT USED.

Issued : 02.06.23 (MR2023.03) CERTIFIED ERECTION DETAILS Detail Size (W x H) : 4 x 3

TRAPEZOIDAL SEAM ROOF PANELS

## EA6012 - CFR MODULARITY GUIDANCE

Download the DWG file by clicking here.



### **Detailer Notes:**

1) THIS DETAIL REQUIRED ON EVERY TRAPEZOIDAL ROOF PROJECT.

Issued : 02.06.23 (MR2023.03) CERTIFIED ERECTION DETAILS Detail Size (W x H) : 4 x 3



TRAPEZOIDAL SEAM ROOF PANELS

### EA6015 - CFR - HAND CRIMPING NOTES

### Download the DWG file by clicking here.

### IMPORTANT NOTE:

SPECIALIZED SEAMING AND HAND CRIMPING TOOLS
THE EMISSION OF THE ROOF PANELS REQUIRES SPECIAL SEAMING TOOLS THAT ARE AVAILABLE ONLY THROUGH THE MBS, CAUTION: THE USE OF OTHER SEAMING / CRIMPING EQUIPMENT WILL RESULT IN FAULTY AND / OR DAM SEAMS AND SHALL INVALIDATE ANY OF THE ROOF SYSTEM'S MATERIAL AND WEATHER TIGHTNESS WARRANTIES.

SEAMING TOOL SOURCE
THE SEAMING TOOLS ARE PROVIDED BY MBS IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THE ORDER
DOCUMENTS. CONTACT YOUR SERVICE REPRESENTATIVE TO PURCHASE NECESSARY CRIMPING TOOLS. CONTACT
THE SEAMER RENTAL COMPANY FOR RENTAL INFORMATION OF THE MECHANICAL SEAMER IF REQUIRED.

### CRIMPING & SEAMING REQUIREMENTS

THE DESIGN OF THIS STRUCTURE REQUIRES SEAMING TO MEET DESIGN AND CODE REQUIREMENTS. SEE THE SEAMING PLAN FOR ROOF PLANE SPECIFIC SEAMING REQUIREMENTS. THERE ARE THERE SEAM TYPES YOUSING WITH THE NUCLOR OF REDO'S AS NOTED BELOW. ALL OF THESE SEAM TYPES CAM BE ACHIEVED WITH THE AVAILABLE CRIMINERS WHEN YISE LOCK AND VISE LOCK 300 SEAMS ARE REQUIRED, IT IS RECOMMENDED TO BERT A MICHARIOLA SEAMENT FOR IN THE SEAMING PROCESS.

- NUCOR ROLL LOCK<sup>™</sup> (SEE NOTES 1 AND 2 BELOW)
  NUCOR VISE LOCK 360<sup>™</sup> (SEE NOTES 1, 2 AND 3 BELOW)
  NUCOR VISE LOCK 360<sup>™</sup> (SEE NOTES 2 AND 3 BELOW)
- NOTE: 1
  MINORR ROLL LOCK SEAM IN THE MINIMUM REQUIRED BY DESIGN FOR ANY ROOF PLANE. ADDITIONAL SEAMING MAY BE REQUIRED BY THE BUILDER OR ARCHITECT. IT IS THE ERECTORS RESPONSIBILITY TO PERFORM ANY ADDITIONAL CRIMPING / SEAMING REQUIRED BY THE BUILDER, ARCHITECT, ETC. ABOVE AND BEYOND THE DESIGN REQUIREMENT OF THE MBS.

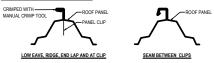
NOTE 2
MILTIPLE SEAM TYPES MAY BE REQUIRED BY DESIGN IN DIFFERENT ZONES OF THE ROOF PLANE. REVIEW THE ROOF SEAMING PLAN CAREFULLY FOR ROOF PLANE SPECIFIC SEAMING REQUIREMENTS.

IICAL SEAM

SEE THE SEAMING MANUAL FOR IMPORTANT ERECTOR INFORMATOIN ABOUT THE VISE LOCK 360 SEAMER REQUIREMENTS.

WHEN TO CRIMP
AS WORK PROGRESSES, IT SHALL BE THE ERECTORS RESPONSIBILITY TO APPLY THE NUCOR ROLL LOCK HAND
COMMING ROUNTEMENTS IN SUCH A WAY AS TO ENSURE THAT THE PANELS HAVE BEEN ADEQUATELY SECURED AT
THE COMPLETION OF EACH DAYS WORK.

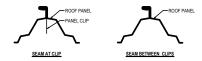
### NUCOR ROLL LOCK SEAM<sup>TM</sup>



THE ROLL LOCK SEAM<sup>™M</sup> ROLL LOCK SEAM REQUIRES THE ROOF PANELS TO BE CRIMPED WITH A MANUAL CR TOOL BY THE COMPLETION OF EACH DAY'S WORK. THIS DOES NOT REQUIRE THE USE OF A MOTORIZED SEAM

- PING IS REQUIRED AT THE FOLLOWING LOCATIONS LOW EAVE 16"
- | RIDGE / HIGH SIDE | 16" | ENDLAP | 16" | AT CLIPS | SIN

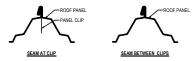
## NUCOR VISE LOCK SEAM(R)



THE VISE LOCK SEAM<sup>(R)</sup> IS CONTINUOUS FULL LENGTH OF THE PANEL. THE VISE LOCK SEAM CAN BE ACHIEVED BY TWO

- CONTINUALLY HAND CRIMPING THE SEAM WITH THE VISE LOCK HAND CRIMPER. MECHANICALLY SEAMING WITH A VISE LOCK MOTORIZED SEAMER.

## NUCOR VISE LOCK 360 SEAM(R)

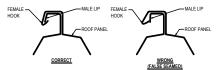


- THE VISE LOCK 380 SEAM<sup>®1</sup> IS CONTINUOUS FULL LENGTH OF THE PANEL. THE VISE LOCK 380<sup>®1</sup> SEAM CAN BE ACHIEVED BY TWO DIFFERENT METHODS.

  1. CONTINUALLY HAND CRAIMPRIST THE SEAM WITH THE VISE LOCK 380 HAND CRIMPER. THE SEAM NEEDS TO BE HAND CRAIMPED INTO A VISE LOCK SEAM PRIOR TO USING THE VISE LOCK 380 CRIMPER.

  1. MECHANICALLY SEAMING WITH A MICTORIZED SEAMOR TO THE VISE LOCK 380 CRIMPER.

### CHECK PANEL ASSEMBLY



SIDE LAP FIT-UP
REFORE CRIMPING AND / OR SEAMING, INSPECT THE FULL LENGTH OF EACH PANEL SIDE LAP, CHECK THAT THE LIP AT BEFORE CRIMINING AND YES SEAMING, SINCECE IN HE HOLL LENGTH FOR PACH PAIRS LEAP, CHECK HIATH IT HE MALE EDGS OF THE PAIRS IS SENDED BY THE HOLD OF THE ADJACENT PAIRS. IS FEIRIAL EDGE AS SHOWN IN THE DETAIL ABOVE. ANY CONDITIONS WHERE THE SEAMIN SONT SMOAGED PROPERLY MUST BE CORRECTED BEFORE THE SHOWN OF SEAMINE PAIRS. FARMEL FALSE SEAMING OCCURS WHEN THE PAIRS. FAR HOT PROPERLY PAIRS FOR THE PAIRS AND FOR THE PAIRS AND THE PAIRS AND

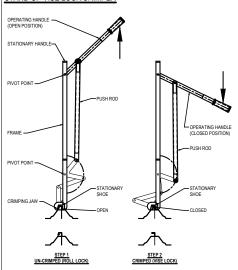
CHE POLICIAIREM AND JOR SEAMING, INSPECT THAT EACH ROOF PANEL CUP IS PROPERLY ENGAGED IN THE SIDE LEA ASSISSIENLY, AND TORS LACED CUPS INITIOS OF CORRECTED SEFORE ATTEMPTING TO CHIMP JESAM THE ROOF PANELS, PANEL CUPS THAT ARE NOT POWERLY PENAGED AND ALIANSED AND CAUSE FAULTY CRAMP JESAM AND CORLECTIONALS SEAM APPEARANCE, THE MISSING THE SEAMER RENTAL COMPANY CAN BE RELD RESPONSIBLE FOR ANY COMMENTS RELATED TO MIRROFERY ALIASSED CUES.

SEAM LAMAGE.

BEFORE CRIMINING AND / OR SEAMING, INSPECT THAT EACH ROOF PANEL MALE AND FEMALE ARE FREE FROM DISTORTION AND KINKS WHICH CAN LEAD TO DIFFICULTY AND I OR DAMAGE TO THE PANEL WHILE ATTEMPTING ROOF THE FANEL WHITE SEAM THE PANEL AND TO STORTIONS; KINKS MUSTE GEORGRECTED BEFORE ATTEMPTING TO CRIMIP / SEA THE FANEL AND TO STORTIONS; KINKS MUSTE GEORGRECTED BEFORE ATTEMPTING TO CRIMIP / SE THE PANELS. THE MISSINGE THE SEAMER REMTAL COMPANY CAN BE HELD RESPONSIBLE FOR ANY CONCERNS RELATED TO DAMAGE COLUSED IN THE FIRIT D

## MANUAL CRIMPING

### STAND-UP VISE LOCK CRIMPER



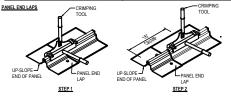
THE MANUAL CRIMPING PROCEDURE FOR THE STAND-UP VISE LOCK CRIMPER IS THE SAME PROCEDURE AS THE SMALL VISE LOCK HAND CRIMPER. THE STAND-UP AND SMALL HAND CRIMPERS CAN BE USED IN CONJUNCTION WITH EACH OTHER. THE MANUAL CRIMPERS CAN BE UTILIZED TO CREATE A CONTINUOUS SEAM BY MAKING ADJACENT CRIMPS WITH SUBTO VERLAP.

## TOOL OPERATION

STEP 1
WITH THE HANDLE IN THE UPWARD (OPEN) POSITION, PLACE THE CRIMPER ON THE PANEL RIB. MAKE SURE THE
CRIMPER HEAD IS COMPLETELY SEATED ON THE TOP OF THE PANEL RIB BEFORE CRIMPING. IT IS CRITICAL THAT THE
OPERATING, JAW TO JUMAND THE HOOK SIDE OF THE PANEL AS SHOWN ABOVE. OPERATING THE CRIMPER
BACKWARDS ON THE PANEL WILL RESULT IN DAMAGE TO THE PANEL.

SIEP 2 PUISH DOWN ON THE HANDLE UNTIL IT STOPS RAISE HANDLE TO RELEASE CRIMPER. REPOSITION CRIMPER AS NECESSARY AND REPEAT TO EXTEND THE LENGTH OF THE CRIMP.

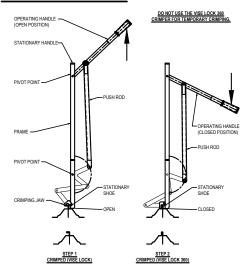
# MANUAL CRIMPING - EAVE / END LAP / RIDGE / PANEL CLIP PANEL CLIPS THE PANEL FOLLOWED BY ADDITIONAL QUIRES A SINGLE CRIMP CENTERED CRIMPS TO EXTEND 16" FROM END OF PANE



END LAP CRIMP IS TWO STEP PROCESS
STEP 1; CENTER THE CRIMP TOOL OVER THE PANEL END LAP FOR THE FIRST CRIMP.
STEP 2; THE SCOON CRIMP MUST OVERLAP THE FIRST CRIMP AND EXTEND TO ENSURE THE CRIMP REACHES THE DODWINSLOPE PANEL CLIP. THIS MAY REQUIRE A THIRD CRIMP DEPENDING HOW MUCH OVERLAP WAS DONE.

### MANUAL CRIMPING

### STAND-UP VISE LOCK 360 CRIMPER



IPING PROCEDURE FOR THE STAND-UP VISE LOCK 360 CRIMPER IS THE SAME PROCEDURE AS THE THE WARDURG LANGEMENT STANDARD CHAIR THE STANDLEP MY SELECTIVE SAU CRIMINER IS THE SAME PROCEDURE AS THE SAMELL VISE LOCK SOOR PAINTER SATE DESIGNATED THE STANDLEP AND SAULL HAND VISE LOCK 300 CRIMINERS ARE DESIGNATED TO BE USED IN COMJUNCTION WITH VISE LOCK CRIMINERS OR SEAMER THE PAINE. RIB MUST BE IN THE VISE LOCK SEAM PROINT OF CREATED AND THE VISE OF CREATED AND CONTINUOUS SEAM BY MAKING ADJACENT CRIMPS WITH SLIGHT OVERLAP.

### TOOL OPERATION

SIEP 1

AFTER THE AREA HAS BEEN SEAMED TO THE VISE LOOK SEAM, PLACE THE VISE LOOK 380 CRIMPER ON THE PANIEL RIB
WITH THE HANDLE IN THE LIPWARD (DEEN POSTION) MAKE SIRE THE CRIMPER HEAD IS COMPLETELY SEATED ON
THE TOP OF THE PANEL RIB SEFECRE CANIRMONE, IT IS CRIMINED, LITHAT THE OFFARTH SAWN IS TOWARD THE HOOK SIDE
OF THE PANEL AS SHOWN ABOVE OPERATING THE CRIMPER BACKWARDS ON THE PANEL WILL RESULT IN DAMAGE TO
THE PANEL.

# STEP 2 PUSH DOWN ON THE HANDLE UNTIL IT STOPS. RAISE HANDLE TO RELEASE CRIMPER. REPOSITION CRIMPER AS NECESSARY AND REPEAT TO EXTEND THE LENGTH OF THE CRIMP.

IMPORTANT
IF THE 300 TOOL DOES NOT FORM THE VISE LOCK 360 SEAM CORRECTLY, STOP AND CHECK THE SEAM TO ENSURE A
PROPER AND CONTINUOUS VISE LOCK SEAM HAS BEEN COMPLETED. IF NOT, RE-GRIMP / SEAM TO A PROPER VISE
LOCK SEAM BEFORE ATTEMPTING TO SEAM TO THE VISE LOCK 360.

CFR HAND CRIMPING NOTES

EA6015

### **Detailer Notes:**

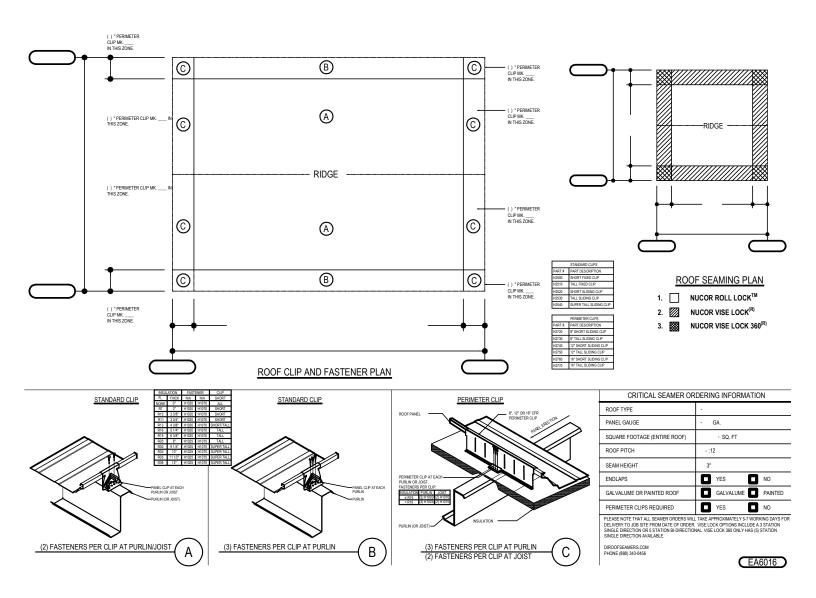
1) THIS DETAIL REQUIRED ON EVERY CFR ROOF PROJECT.

: 10.14.22 (2020-039) **CERTIFIED ERECTION DETAILS** Detail Size (W x H): 3 x 3 Issued

TRAPEZOIDAL SEAM ROOF PANELS

### EA6016 - CFR ROOF CLIP & SEAMING PLAN

Download the DWG file by clicking here.



## **Detailer Notes:**

1) THIS DETAIL REQUIRED ON EVERY TRAPEZOIDAL ROOF PROJECT.

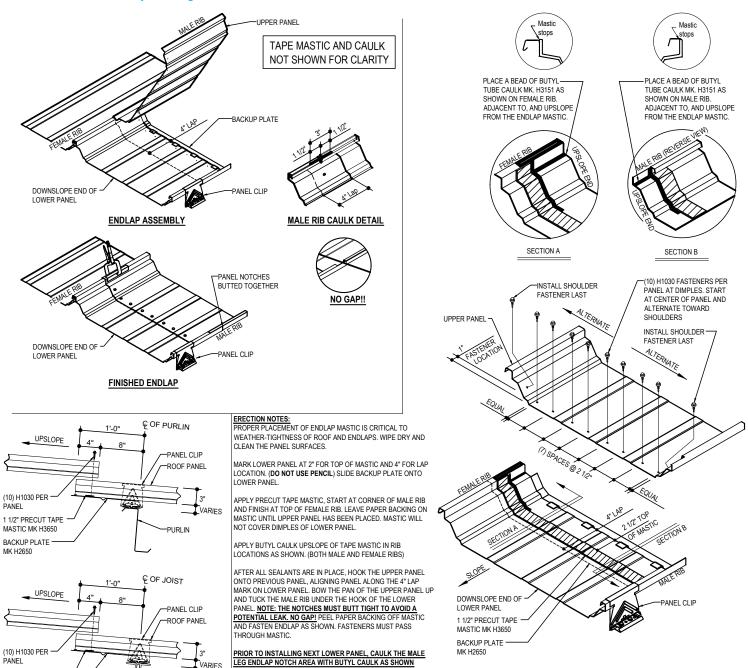
Issued : 10.14.22 (2020-039) **CERTIFIED ERECTION DETAILS** Detail Size (W x H) : 4 x 3

EA6020



### EA6020 - CFR PANEL ENDLAP

Download the DWG file by clicking here.



### **Detailer Notes:**

1 1/2" PRECUT TAPE

JOIST

MASTIC MK H3650

BACKUP PLATE

MK H2650

1) THIS DETAIL IS REQUIRED ON EVERY PROJECT WITH TRAPEZOIDAL ROOF PANEL WITH ENDLAPS.

REPEAT PROCESS SUBSEQUENT ENDLAPS.

2) TURN ON THE CORRECT LAYER BASED ON THE SPECIFIC TRAPEZOIDAL PANEL PROFILE AND TURN OFF THE PANEL PROFILES NOT USED.

PANEL ENDLAP DETAIL

(SEE ROOF SHEETING PLAN)

ENDLAP DETAIL WITH STRAIGHT OR STAGGERED ENDLAPS

NOTE: INSULATION AND THERMAL BLOCKS NOT SHOWN FOR CLARITY

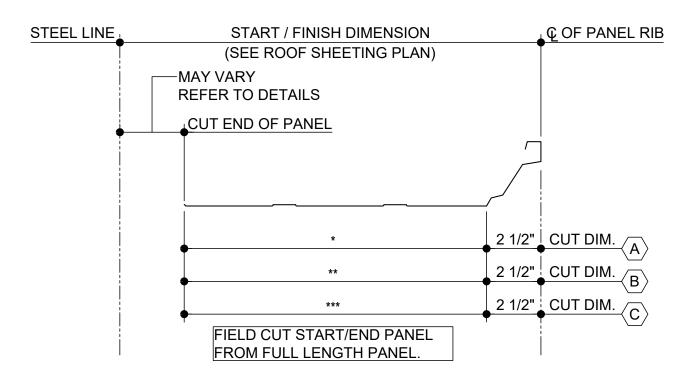
3) THIS STANDARD DETAIL IS APPROVED FOR MIAMI-DADE USE. ALTERATIONS TO THIS DETAIL MAY IMPACT APPROVAL.

Issued : 02.06.23 (MR2023.03) CERTIFIED ERECTION DETAILS Detail Size (W x H) : 2 x 2

TRAPEZOIDAL SEAM ROOF PANELS

### EA6035 - CFR START / FINISH PANEL WIDTH DETAIL

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# START / END CUT PANEL DIMENSION DETAIL

- WHEN FIELD CUTTING OR MITERING ROOF PANELS, NON-ABRASIVE CUTTING TOOLS SUCH AS NIBBLERS OR TIN-SNIPS SHALL BE USED.
- ABRASIVE CUTTING TOOLS SUCH AS MECHANICAL GRINDERS, SAWS, SHEARS OR SCISSORS CAN DAMAGE THE PANEL FINISH AND CREATE EXCESS METAL SHAVINGS THAT CAN CORRODE THE PANELS.
- THE USE OF NON-APPROVED CUTTING DEVICES MAY VOID YOUR FACTORY WARRANTY.

EA6035

### **Detailer Notes:**

1) THIS DETAIL IS REQUIRED ON EVERY TRAPEZOIDAL ROOF PROJECT.

Issued: 10.14.22 (2020.039) CERTIFIED ERECTION DETAILS Detail Size (W x H): 1 x 1