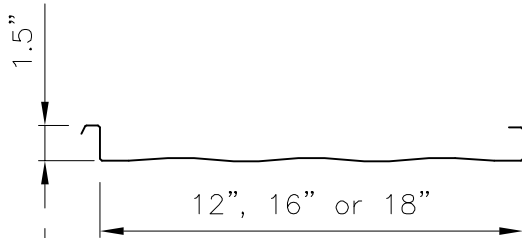
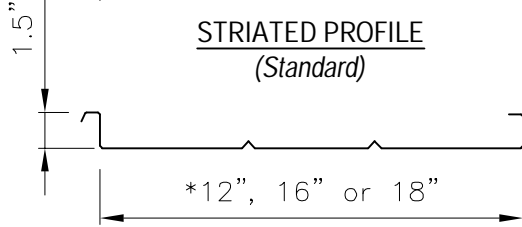


Maxima 1.5" Panel

Product Data

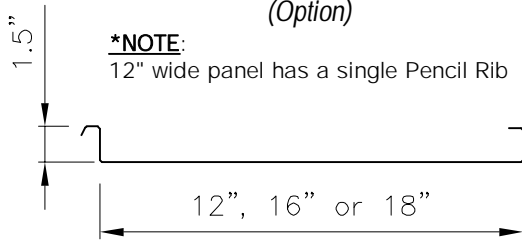


STRIATED PROFILE
(Standard)

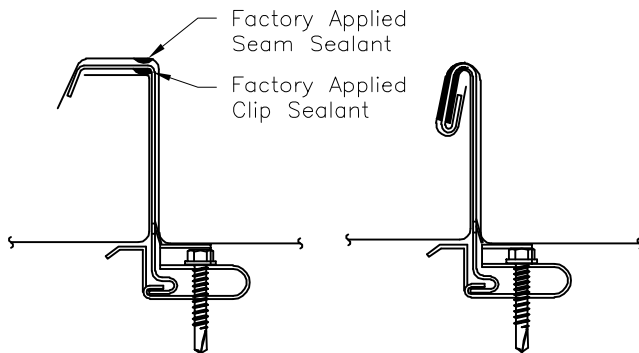


BEAD (PENCIL RIB) PROFILE
(Option)

***NOTE:**
12" wide panel has a single Pencil Rib



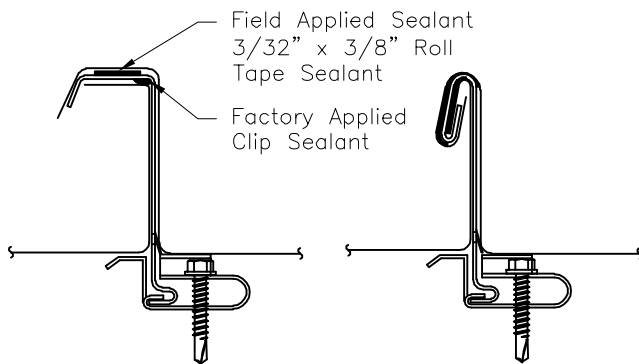
FLAT PAN PROFILE
(Option)



BEFORE SEAMING

AFTER SEAMING

180° SEAM



BEFORE SEAMING

AFTER SEAMING

180° SEAM

Applications

Mechanically Seamed roof/wall panel used on slopes down to 1:12. Continuous length up to 80'. Convex curving only - 12ft minimum radius.

Substrates

Plywood, Metal Deck, Rigid Insulation/Metal Deck or Open Framing.

Material

Standard - 24 GA. ASTM A792 (50 ksi steel) AZ55 - Bare
AZ50 - Painted
Optional - 22 GA. ASTM A792 (50 ksi steel) AZ55 - Bare
AZ50 - Painted
- 0.032" Aluminum

Manufacturing

Roll formed in factory. (Peachtree City Plant only)

Finishes

Acrylic Coated Galvalume®
Fluoropolymer (Kynar 500® PVDF resin-based)

Pan Conditions

Striated or Flat
Oil canning is inherent in all metal panels and is not cause for panel rejection. A signed oil canning acknowledgement will be required for all orders prior to production.

Testing *

Uplift: ASTM E1592 (16" panel only), UL 580 Class 90
Air & Water Infiltration: ASTM E1680, ASTM E1646
Fire Resistance: UL 263 & UL 790 Class A
Impact Testing: UL 2218 Class 4
Florida Product Approval: FL 8051.2
Testing and Approvals are product specific. Please inquire for details.

NOTE:

All data represented on this sheet may not be applicable to all widths and gauges. Please contact McElroy Metal for more information.

NOTE:

Factory applied seam sealant can only be ordered on panels that will NOT be curved. If curving these panels, the installer must field apply 3/32" x 3/8" Roll Tape Butyl Sealant.

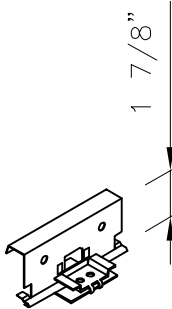


MECHANICAL SEAMER

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Maxima 1.5" Panel (Continued)

Product Data



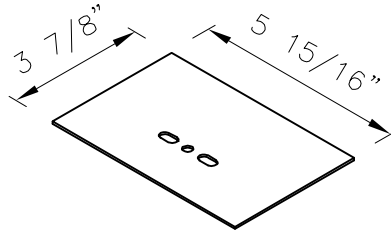
LOW FLOATING CLIP

2-Piece

Clip: 22 GA. Galvanized G90 - ASTM A653 (50 ksi)

Base: 16 GA. Galvanized G90 - ASTM A653 (50 ksi)

NOTE: Fixed Clips Not Available

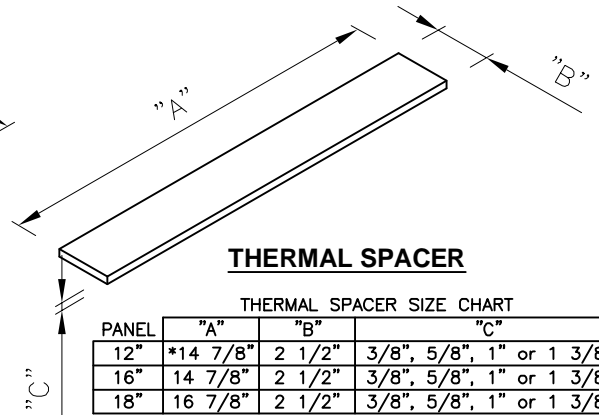


BEARING PLATE

16 GA.

RED PRIMED - ASTM A1011 (55 ksi)

GALVANIZED - ASTM A653 (55 ksi)

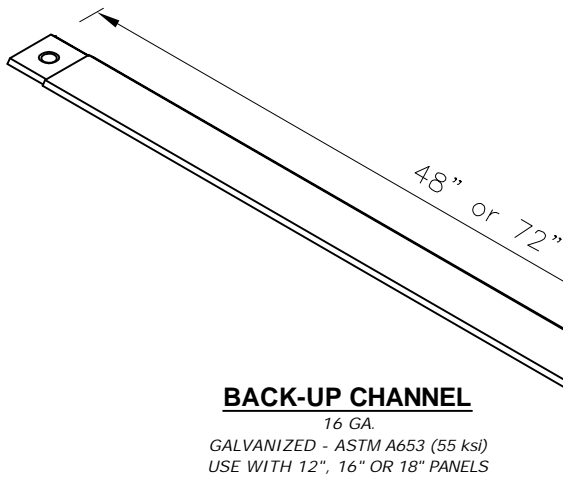


THERMAL SPACER

THERMAL SPACER SIZE CHART

PANEL	"A"	"B"	"C"
12"	*14 7/8"	2 1/2"	3/8", 5/8", 1" or 1 3/8"
16"	14 7/8"	2 1/2"	3/8", 5/8", 1" or 1 3/8"
18"	16 7/8"	2 1/2"	3/8", 5/8", 1" or 1 3/8"

*NOTE: FOR 12" PANELS, FIELD CUT 14 7/8" SPACERS DOWN TO 10 7/8" LONG.

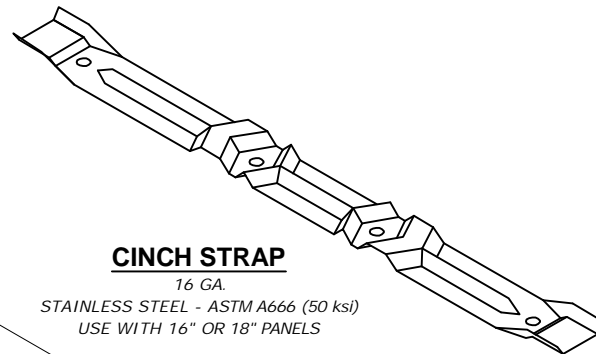


BACK-UP CHANNEL

16 GA.

GALVANIZED - ASTM A653 (55 ksi)

USE WITH 12", 16" OR 18" PANELS

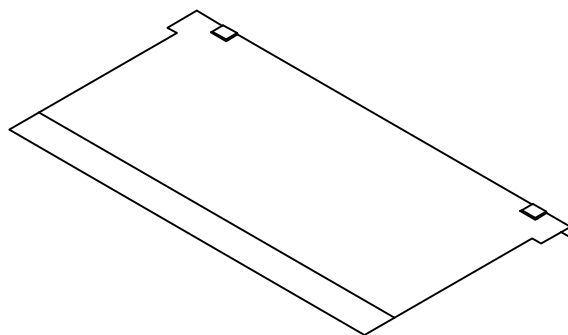


CINCH STRAP

16 GA.

STAINLESS STEEL - ASTM A666 (50 ksi)

USE WITH 16" OR 18" PANELS

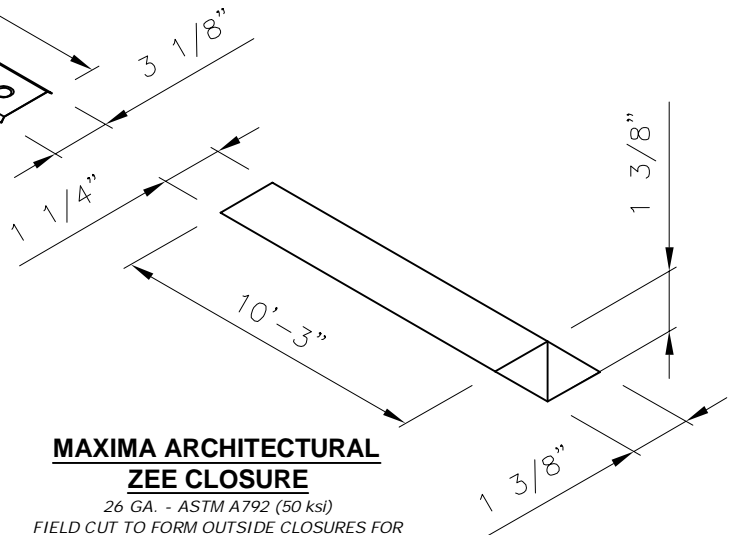


BACK-UP PLATE

16 GA.

GALVANIZED - ASTM A653 (55 ksi)

USE WITH 16" OR 18" PANELS ONLY



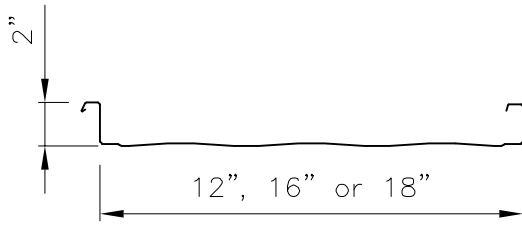
MAXIMA ARCHITECTURAL ZEE CLOSURE

26 GA. - ASTM A792 (50 ksi)

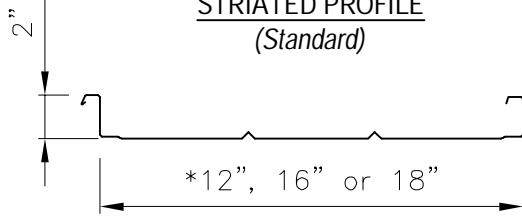
FIELD CUT TO FORM OUTSIDE CLOSURES FOR 12", 16" AND 18" WIDE PANELS

Maxima 2" Panel

Product Data

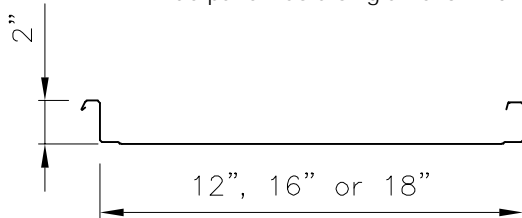


STRIATED PROFILE
(Standard)



BEAD (PENCIL RIB) PROFILE
(Option)

***NOTE:**
12" wide panel has a single Pencil Rib



FLAT PAN PROFILE
(Option)

Applications

Mechanically Seamed roof/wall panel used on slopes down to 1/2:12. Continuous length up to 80'.

Substrates

Plywood, Metal Deck, Rigid Insulation/Metal Deck or Open Framing.

Material

Standard - 24 GA. ASTM A792 (50 ksi steel) AZ55 - Bare
AZ50 - Painted
Optional - 22 GA. ASTM A792 (50 ksi steel) AZ55 - Bare
AZ50 - Painted
- .032 Aluminum (Sunnyvale Plant Only)

Manufacturing

Roll formed in factory or at jobsite.

Finishes

Acrylic Coated Galvalume®
Fluoropolymer (Kynar 500® PVDF resin-based)

Pan Conditions

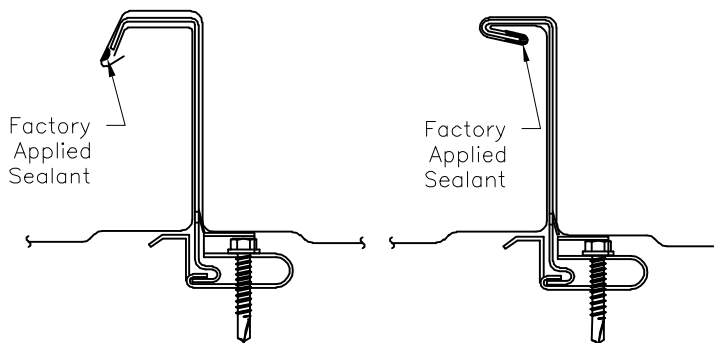
Striated, Pencil Rib, or Flat
Oil canning is inherent in all metal panels and is not cause for panel rejection. A signed oil canning acknowledgement will be required for all orders prior to production.

Testing *

Uplift: UL 580 Class 90, ASTM E1592,
Waterhead: ASTM E2140 (218 panel only)
Air & Water Infiltration: ASTM E1680, ASTM E1646
Fire Resistance: UL 263 & UL 790 Class A
Impact Testing: UL 2218 Class 4
Miami Dade Approval: NOA# 17-0320.04 (216 panel only)
FM 4471 (1-90 Rated)
Florida Product Approval: FL 1747.3 and FL 1832.4
Testing and Approvals are product specific. Please inquire for details.

NOTE:

All data represented on this sheet may not be applicable to all widths and gauges. Please contact McElroy Metal for more information.



BEFORE SEAMING

AFTER SEAMING

90° SEAM

NOTE:

Factory applied seam sealant can only be ordered on panels that will NOT be curved. If curving these panels, the installer must field apply 3/32" x 3/8" Roll Tape Butyl Sealant.

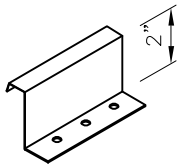


MECHANICAL SEAMER

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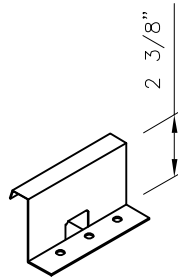
Maxima 2" Panel (Continued)

Product Data



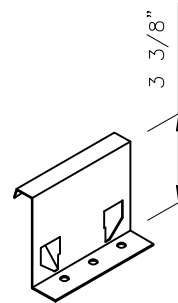
UTILITY FIXED CLIP

22 GA. Galv. G90 - ASTM A653 (50 ksi)
22 GA. Stainless Steel - ASTM A666 (50 ksi)



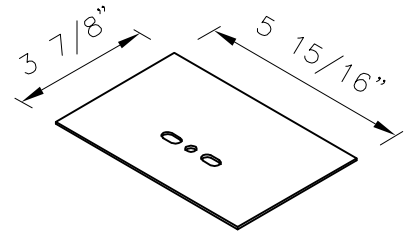
LOW FIXED CLIP

22 GA. Galv. G90 - ASTM A653 (50 ksi)
22 GA. Stainless Steel - ASTM A666 (50 ksi)



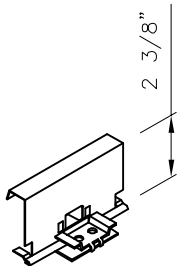
HIGH FIXED CLIP

22 GA. Galv. G90 - ASTM A653 (50 ksi)
22 GA. Stainless Steel - ASTM A666 (50 ksi)



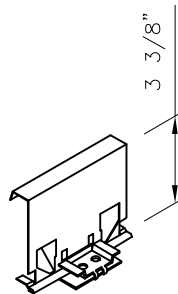
BEARING PLATE

16 GA.
RED PRIMED - ASTM A1011 (55 ksi)
GALVANIZED - ASTM A653 (55 ksi)



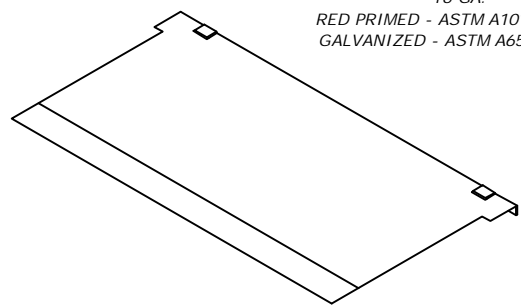
LOW FLOATING CLIP

2-Piece
Clip: 22 GA. Galvanized G90 - ASTM A653 (50 ksi)
Clip: 22 GA. Stainless Steel - ASTM A666 (50 ksi)
Base: 16 GA. Galvanized G90 - ASTM A653 (50 ksi)



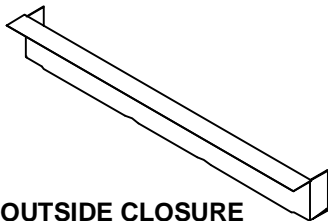
HIGH FLOATING CLIP

2-Piece
Clip: 22 GA. Galvanized G90 - ASTM A653 (50 ksi)
Clip: 22 GA. Stainless Steel - ASTM A666 (50 ksi)
Base: 16 GA. Galvanized G90 - ASTM A653 (50 ksi)



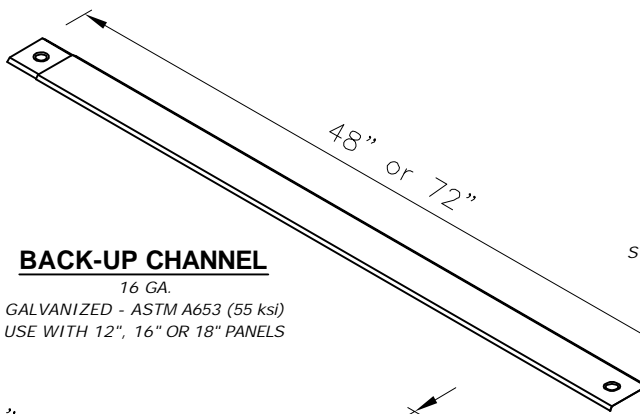
BACK-UP PLATE

16 GA.
GALVANIZED - ASTM A653 (55 ksi)
USE WITH 16" OR 18" PANELS ONLY



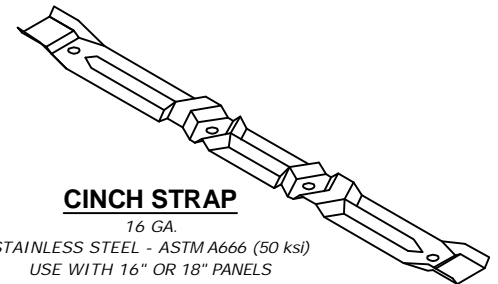
OUTSIDE CLOSURE

24 GA. - ASTM A792 (50 ksi)
USE WITH 16" AND 18"
WIDE PANELS



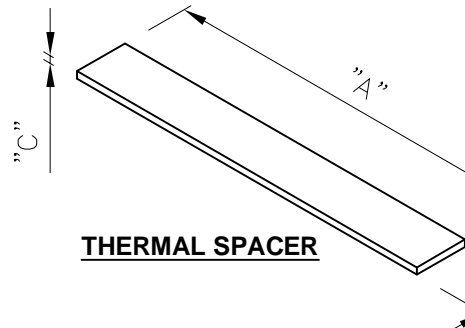
BACK-UP CHANNEL

16 GA.
GALVANIZED - ASTM A653 (55 ksi)
USE WITH 12", 16" OR 18" PANELS



CINCH STRAP

16 GA.
STAINLESS STEEL - ASTM A666 (50 ksi)
USE WITH 16" OR 18" PANELS



THERMAL SPACER

THERMAL SPACER SIZE CHART

PANEL	"A"	"B"	"C"
12"	*14 7/8"	2 1/2"	3/8", 5/8", 1" or 1 3/8"
16"	14 7/8"	2 1/2"	3/8", 5/8", 1" or 1 3/8"
18"	16 7/8"	2 1/2"	3/8", 5/8", 1" or 1 3/8"

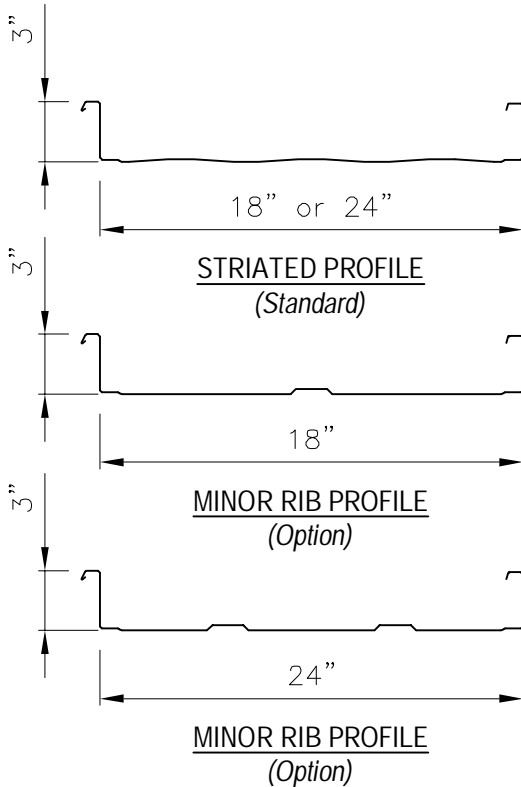
*NOTE: FOR 12" PANELS, FIELD CUT 14 7/8" SPACERS
DOWN TO 10 7/8" LONG.

**MAXIMA ARCHITECTURAL
ZEE CLOSURE**

26 GA. - ASTM A792 (50 ksi)
FIELD CUT TO FORM OUTSIDE CLOSURES FOR
12", 16" AND 18" WIDE PANELS

Maxima 3" Panel

Product Data



Applications

Mechanically Seamed roof/wall panel used on slopes down to 1/4:12. Continuous length up to 80'.

Substrates

Plywood, Metal Deck, Rigid Insulation/Metal Deck or Open Framing.

Material

Standard - 24 GA. ASTM A792 (50 ksi steel) AZ55 - Bare
AZ50 - Painted
Optional - 22 GA. ASTM A792 (50 ksi steel) AZ55 - Bare
AZ50 - Painted

Manufacturing

Roll formed in factory.

Finishes

Acrylic Coated Galvalume®
Fluoropolymer (Kynar 500® PVDF resin-based)

Pan Conditions

Striated or Minor Ribs

Oil canning is inherent in all metal panels and is not cause for panel rejection. A signed oil canning acknowledgement will be required for all orders prior to production.

Testing *

Uplift: UL 580 Class 90, ASTM E1592
Air & Water Infiltration: ASTM E1680, ASTM E1646
Fire Resistance: UL 263 & UL 790 Class A
Impact Testing: UL 2218 Class 4
FM 4471 (1-90) Approval (Maxima 318 only)
Florida State Approval: 1832.4

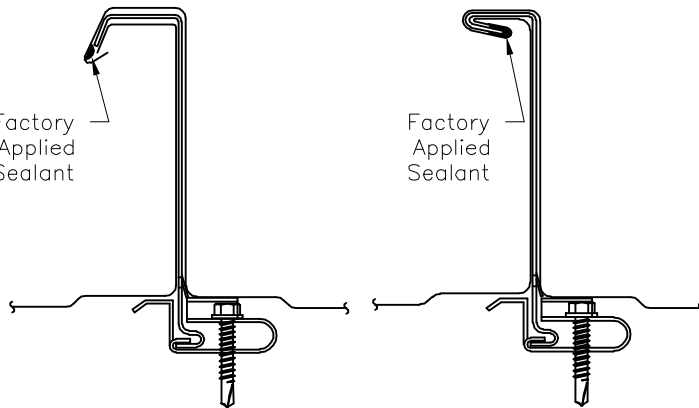
Testing and Approvals are product specific. Please inquire for details.

NOTE:

All data represented on this sheet may not be applicable to all widths and gauges. Please contact McElroy Metal for more information.

Factory Applied Sealant

Factory Applied Sealant



BEFORE SEAMING

AFTER SEAMING

90° SEAM

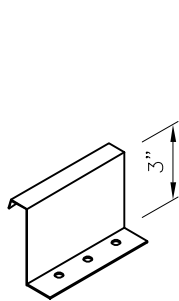


MECHANICAL SEAMER

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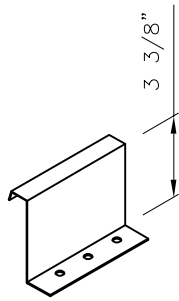
Maxima 3" Panel (Continued)

Product Data



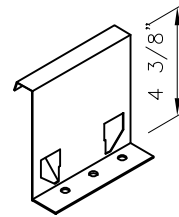
UTILITY FIXED CLIP

22 GA. Galv. G90 - ASTM A653 (50 ksi)
22 GA. Stainless Steel - ASTM A666 (50 ksi)



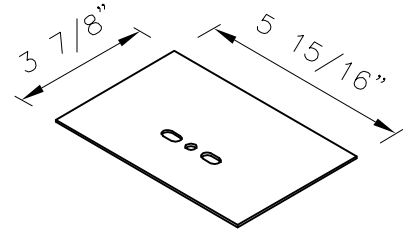
LOW FIXED CLIP

22 GA. Galv. G90 - ASTM A653 (50 ksi)
22 GA. Stainless Steel - ASTM A666 (50 ksi)



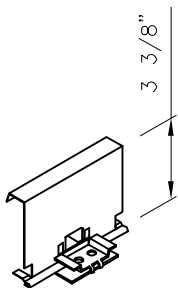
HIGH FIXED CLIP

22 GA. Galv. G90 - ASTM A653 (50 ksi)
22 GA. Stainless Steel - ASTM A666 (50 ksi)



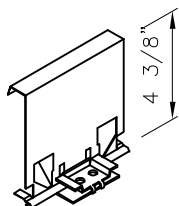
BEARING PLATE

16 GA.
RED PRIMED - ASTM A1011 (55 ksi)
GALVANIZED - ASTM A653 (55 ksi)



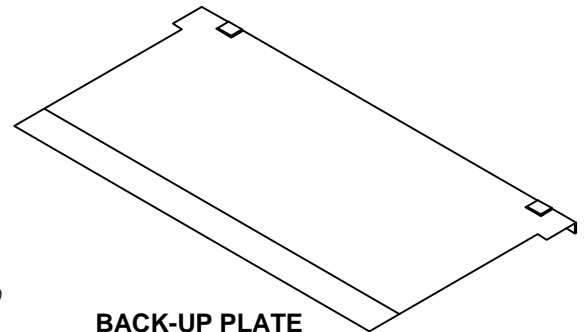
LOW FLOATING CLIP

2-Piece
Clip: 22 GA. Galvanized G90 - ASTM A653 (50 ksi)
Clip: 22 GA. Stainless Steel - ASTM A666 (50 ksi)
Base: 16 GA. Galvanized G90 - ASTM A653 (50 ksi)



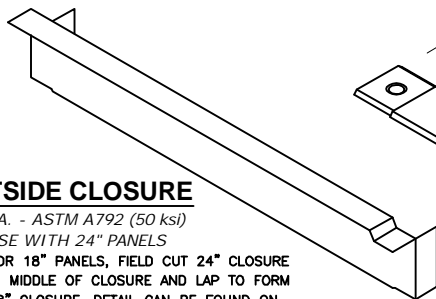
HIGH FLOATING CLIP

2-Piece
Clip: 22 GA. Galvanized G90 - ASTM A653 (50 ksi)
Clip: 22 GA. Stainless Steel - ASTM A666 (50 ksi)
Base: 16 GA. Galvanized G90 - ASTM A653 (50 ksi)



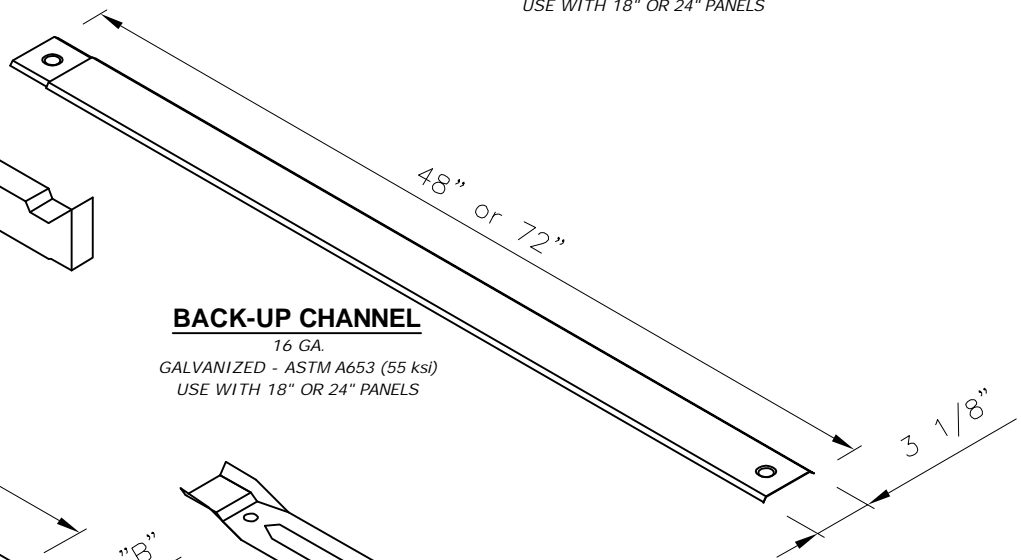
BACK-UP PLATE

16 GA.
GALVANIZED - ASTM A653 (55 ksi)
USE WITH 18" OR 24" PANELS



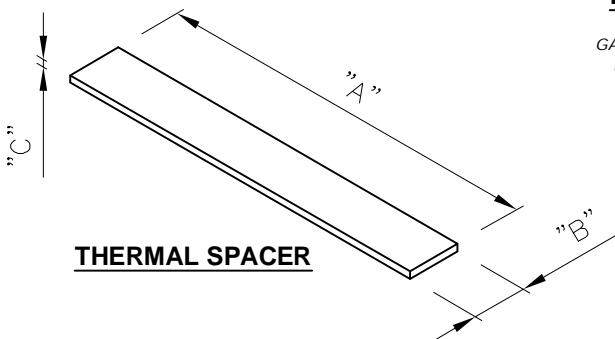
OUTSIDE CLOSURE

24 GA. - ASTM A792 (50 ksi)
*USE WITH 24" PANELS
*NOTE: FOR 18" PANELS, FIELD CUT 24" CLOSURE IN MIDDLE OF CLOSURE AND LAP TO FORM 18" CLOSURE. DETAIL CAN BE FOUND ON MCELROY'S WEBSITE.



BACK-UP CHANNEL

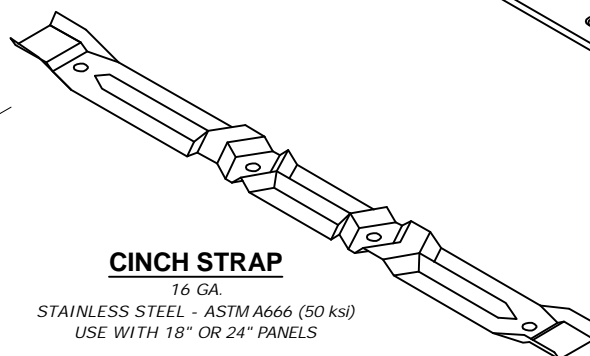
16 GA.
GALVANIZED - ASTM A653 (55 ksi)
USE WITH 18" OR 24" PANELS



THERMAL SPACER

THERMAL SPACER SIZE CHART

PANEL	"A"	"B"	"C"
18"	16 7/8"	2 1/2"	3/8", 5/8", 1" or 1 3/8"
24"	22 7/8"	2 1/2"	3/8"

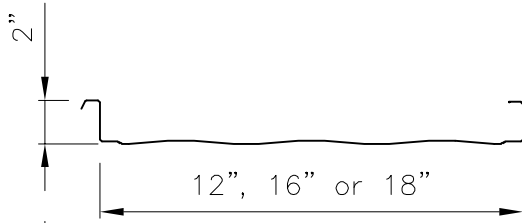


CINCH STRAP

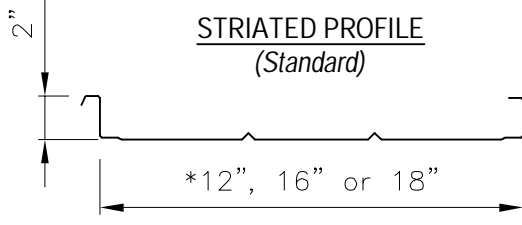
16 GA.
STAINLESS STEEL - ASTM A666 (50 ksi)
USE WITH 18" OR 24" PANELS

Maxima 2" ADV Panel

Product Data

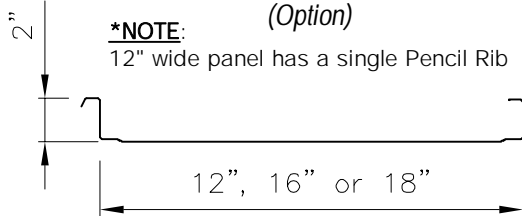


STRIATED PROFILE
(Standard)

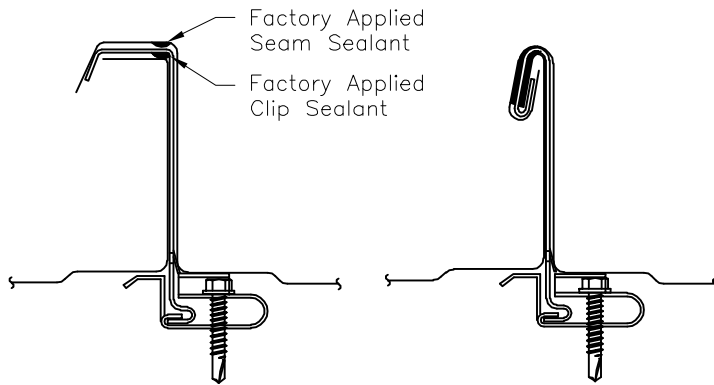


BEAD (PENCIL RIB) PROFILE
(Option)

***NOTE:**
12" wide panel has a single Pencil Rib

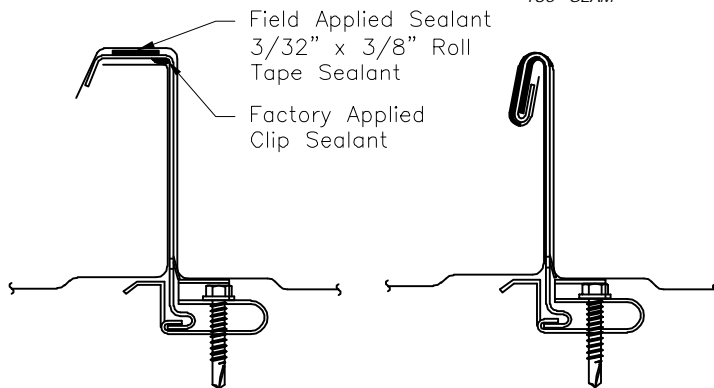


FLAT PAN PROFILE
(Option)



BEFORE SEAMING

AFTER SEAMING
180° SEAM



BEFORE SEAMING

AFTER SEAMING
180° SEAM

Applications

Mechanically Seamed roof/wall panel used on slopes down to 1/2:12. Continuous length up to 80'. Convex curving only - 25ft minimum radius.

Substrates

Plywood, Metal Deck and Rigid Insulation/Metal Deck or Open Framing.

Material

Standard - 24 GA. ASTM A792 (50 ksi steel) AZ55 - Bare
AZ50 - Painted
Optional - 22 GA. ASTM A792 (50 ksi steel) AZ55 - Bare
AZ50 - Painted
- .032 Aluminum (Sunnyvale Plant Only)

Manufacturing

Roll formed in factory or at jobsite.

Finishes

Acrylic Coated Galvalume®
Fluoropolymer (Kynar 500® PVDF resin-based)

Pan Conditions

Striated, Pencil Rib, or Flat
Oil canning is inherent in all metal panels and is not cause for panel rejection. A signed oil canning acknowledgement will be required for all orders prior to production.

Testing *

Uplift: ASTM E1592, UL 580 Class 90
Air & Water Infiltration: ASTM E1680, ASTM E1646
Fire Resistance: UL 263 & UL 790 Class A
Impact Testing: UL 2218 Class 4
Florida Product Approval: FL 1747.4
Testing and Approvals are product specific. Please inquire for details.

NOTE:

Factory applied seam sealant can only be ordered on panels that will NOT be curved. If curving these panels, the installer must field apply 3/32" x 3/8" Roll Tape Butyl Sealant.

NOTE:

All data represented on this sheet may not be applicable to all widths and gauges. Please contact McElroy Metal for more information.

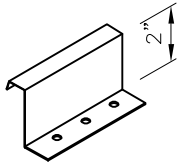


MECHANICAL SEAMER

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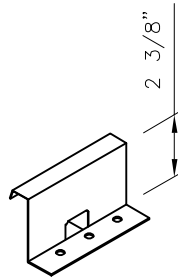
Maxima 2" ADV Panel (Continued)

Product Data



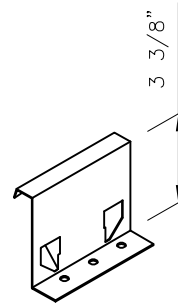
UTILITY FIXED CLIP

22 GA. Galv. G90 - ASTM A653 (50 ksi)
22 GA. Stainless Steel - ASTM A666 (50 ksi)



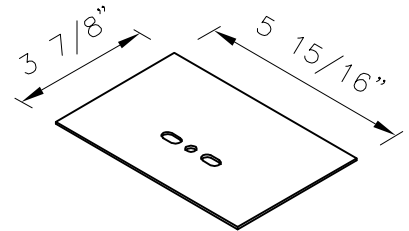
LOW FIXED CLIP

22 GA. Galv. G90 - ASTM A653 (50 ksi)
22 GA. Stainless Steel - ASTM A666 (50 ksi)



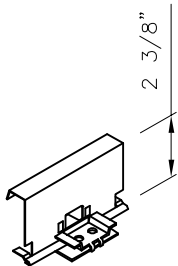
HIGH FIXED CLIP

22 GA. Galv. G90 - ASTM A653 (50 ksi)
22 GA. Stainless Steel - ASTM A666 (50 ksi)



BEARING PLATE

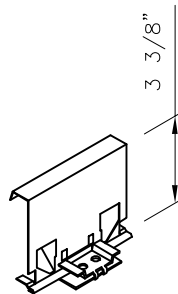
16 GA.
RED PRIMED - ASTM A1011 (55 ksi)
GALVANIZED - ASTM A653 (55 ksi)



LOW FLOATING CLIP

2-Piece

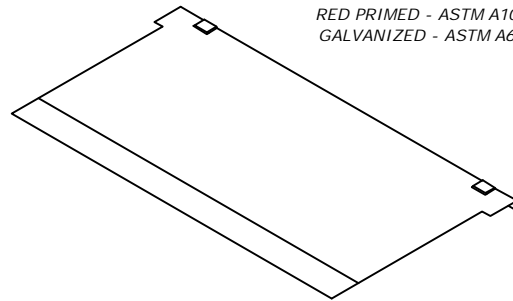
Clip: 22 GA. Galvanized G90 - ASTM A653 (50 ksi)
Clip: 22 GA. Stainless Steel - ASTM A666 (50 ksi)
Base: 16 GA. Galvanized G90 - ASTM A653 (50 ksi)



HIGH FLOATING CLIP

2-Piece

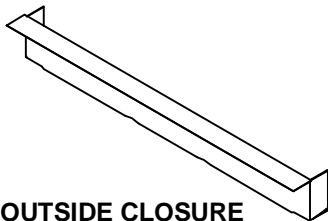
Clip: 22 GA. Galvanized G90 - ASTM A653 (50 ksi)
Clip: 22 GA. Stainless Steel - ASTM A666 (50 ksi)
Base: 16 GA. Galvanized G90 - ASTM A653 (50 ksi)



BACK-UP PLATE

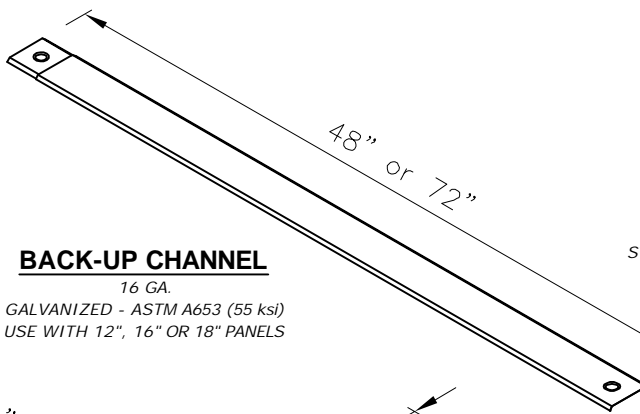
16 GA.

GALVANIZED - ASTM A653 (55 ksi)
USE WITH 16" OR 18" PANELS ONLY



OUTSIDE CLOSURE

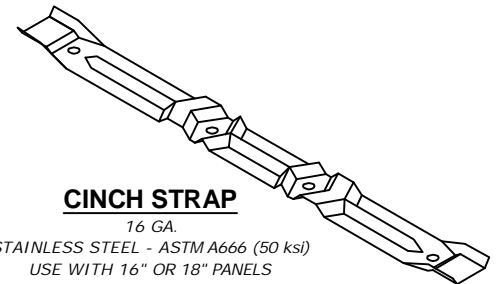
24 GA. - ASTM A792 (50 ksi)
USE WITH 16" AND 18"
WIDE PANELS



BACK-UP CHANNEL

16 GA.

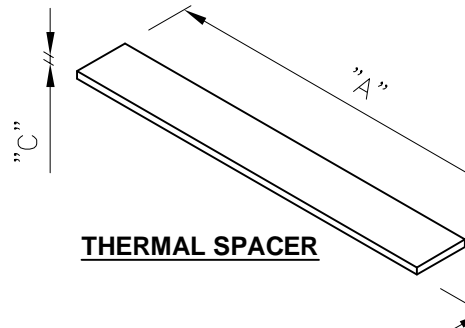
GALVANIZED - ASTM A653 (55 ksi)
USE WITH 12", 16" OR 18" PANELS



CINCH STRAP

16 GA.

STAINLESS STEEL - ASTM A666 (50 ksi)
USE WITH 16" OR 18" PANELS



THERMAL SPACER

THERMAL SPACER SIZE CHART

PANEL	"A"	"B"	"C"
12"	*14 7/8"	2 1/2"	3/8", 5/8", 1" or 1 3/8"
16"	14 7/8"	2 1/2"	3/8", 5/8", 1" or 1 3/8"
18"	16 7/8"	2 1/2"	3/8", 5/8", 1" or 1 3/8"

*NOTE: FOR 12" PANELS, FIELD CUT 14 7/8" SPACERS
DOWN TO 10 7/8" LONG.

**MAXIMA ARCHITECTURAL
ZEE CLOSURE**

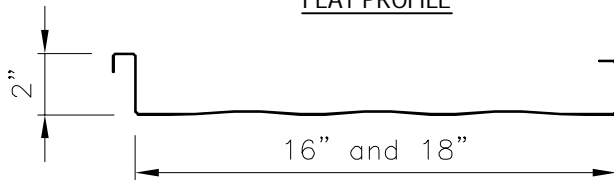
26 GA. - ASTM A792 (50 ksi)
FIELD CUT TO FORM OUTSIDE CLOSURES FOR
12", 16" AND 18" WIDE PANELS

Maxima ADV (w/out shoulders) (also known as JSM 200)

Product Data



FLAT PROFILE



STRIATED PROFILE



PENCIL RIB PROFILE

Applications

Structural panel used on roof slopes 1/2:12 or greater. Continuous lengths up to 200'. Convex curving only - 25ft minimum radius.

Substrates

Open Purlin, Plywood, Metal Deck, Re-Roof Framing.

Material

Standard - 24 GA. ASTM A792 (50 ksi)
Optional - 22 GA. ASTM A792 (50 ksi)
- 0.032" Aluminum

Manufacturing

Roll formed in factory or at jobsite.
Curved at jobsite.

Finishes

Acrylic Coated Galvalume®
Fluoropolymer (Kynar 500® PVDF resin-based)

Pan Conditions

Flat, Striated and Pencil Rib
(Oil canning is inherent in all metal panels and is not cause for panel rejection. A signed oil canning acknowledgement will be required for all orders prior to production.)

Testing/Agency Approvals *

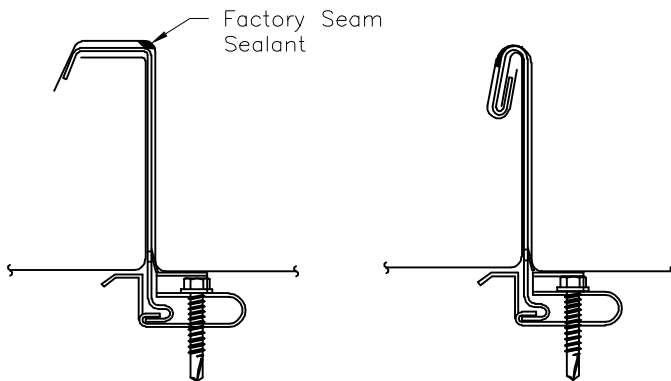
Uplift: UL 580, ASTM E1592
Air & Water Infiltration: ASTM E1680, ASTM E1646
Impact Resistance: UL Class 4
Fire Rating: UL Class A
Testing and Approvals are product specific. Please inquire for details.

NOTE:

All data represented on this sheet may not be applicable to all widths and gauges. Please contact McElroy Metal for more information.

NOTE:

Factory applied seam sealant can only be ordered on panels that will NOT be curved. If curving these panels, the installer must field apply 3/32" x 3/8" Roll Tape Butyl Sealant.



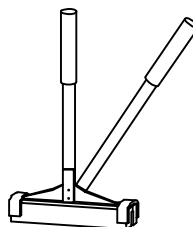
BEFORE SEAMING

AFTER SEAMING

180° SEAM



MECHANICAL SEAMER

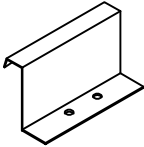


HAND SEAMER

Single and Double Lock available

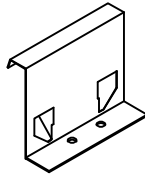
Maxima ADV (w/out shoulders) (also known as JSM 200) (Continued)

Product Data



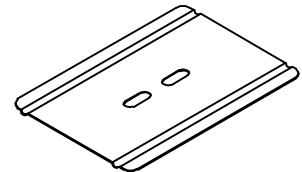
LOW FIXED CLIP

22 GA. Galvanized G90 - ASTM A653 (50 ksi)
22 GA. Stainless - ASTM A666 (50 ksi)



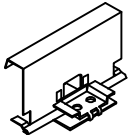
HIGH FIXED CLIP

22 GA. Galvanized G90 - ASTM A653 (50 ksi)
22 GA. Stainless - ASTM A666 (50 ksi)



BEARING PLATE

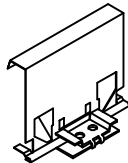
24 GA. - ASTM A792 (50 ksi)



LOW FLOATING CLIP

2-Piece

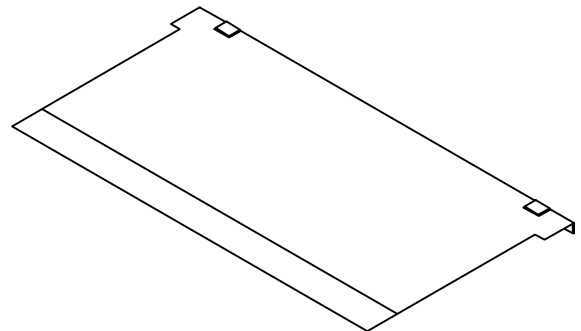
Clip: 22 GA. Galvanized G90 - ASTM A653 (50 ksi)
Clip: 22 GA. Stainless - ASTM A666 (50 ksi)
Base: 16 GA. Galvanized G90 - ASTM A653 (50 ksi)



HIGH FLOATING CLIP

2-Piece

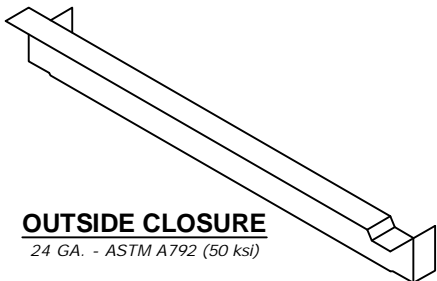
Clip: 22 GA. Galvanized G90 - ASTM A653 (50 ksi)
Clip: 22 GA. Stainless - ASTM A666 (50 ksi)
Base: 16 GA. Galvanized G90 - ASTM A653 (50 ksi)



BACK-UP PLATE

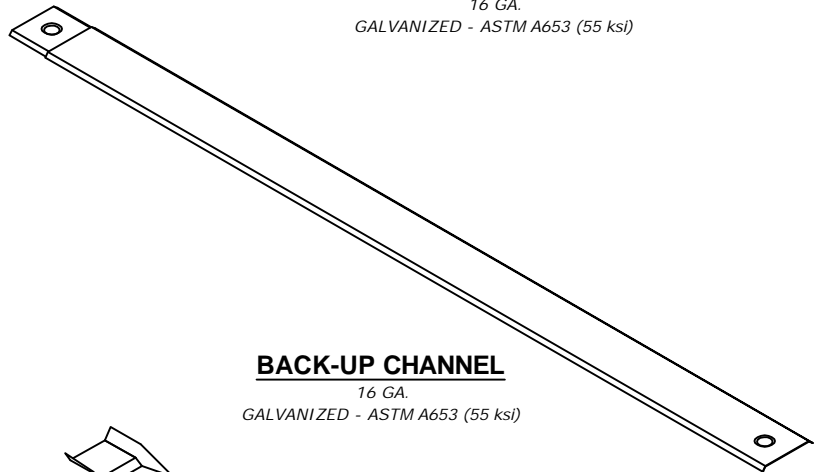
16 GA.

GALVANIZED - ASTM A653 (55 ksi)



OUTSIDE CLOSURE

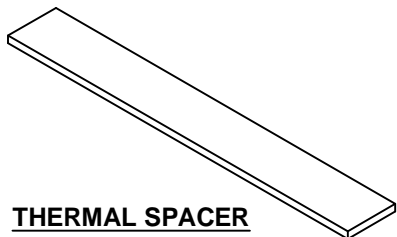
24 GA. - ASTM A792 (50 ksi)



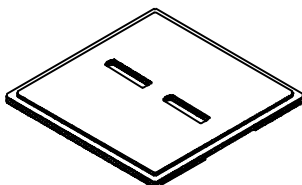
BACK-UP CHANNEL

16 GA.

GALVANIZED - ASTM A653 (55 ksi)

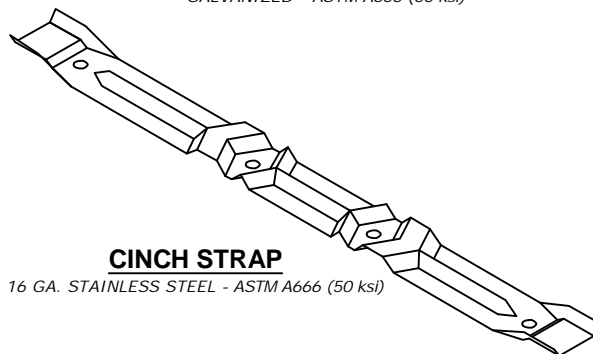


THERMAL SPACER



STACKABLE LEVELING SHIM

6" x 6" x 1/4" Thick



CINCH STRAP

16 GA. STAINLESS STEEL - ASTM A666 (50 ksi)



TECHNICAL BULLETIN

Issue Date : June 1, 2006

Revised: August 1, 2017

No. 04-267-06

Tests for Impact Resistance of Roof Covering Materials

UL 2218

Impact Resistance Class 4

Class 4 formed coated Steel Panels designated Type Coated steel panels (surfacing) identified as “Multi-Rib”, “Master-Lok”, “R”, “Medallion-Lok”, “Medallion”, “Medallion I Batten”, “Medallion II Batten”, “Meridian”, “5V-Crimp”, “Mega-Rib”, “Maxima 1.5”, “Maxima 212”, “Maxima 216”, “Maxima 218”, “Maxima 318”, “Maxima 324”, “Metalogic-2000”, “Mirage”, “M-Cor”, “Multi-Cor”, “Max-Rib”, “Mac-Rib”, “U”, “PBU”, “Mirage II”, “Maxima ADV”, and “Met-Tile”, “ABC Permaseam Panel;”, “ABC SL Low Panel”, ABC JSM 200”, “ABC Instaloc”, ABC SERIES 300”, “238T Roof Panel”, and “138T Roof Panel”.

Class 4 formed copper panel, designated “ABC JSM 200”

Class 4 formed aluminum panel, designated “ABC 238T Roof Panel” and “Medallion-Lok”.

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MERKEL, TX

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TECHNICAL BULLETIN

Issue Date : June 27, 2000**Revised: August 16, 2016****No. 04-117-00**

Factory Mutual Approval Maxima 216 & Maxima 218

On June 1, 2000, McElroy Metal, Inc. satisfied all requirements for **Factory Mutual Research Standard 4471** on its Maxima 216 and Maxima 218 panels. The panels must be installed as specified in the CONCLUSIONS of the FM report. The following is a summary of the approval report and the classifications issued. Please note Factory Mutual requires the substrate to be the main supporting structural roof member. It may not be a subpurlin or a furring member.

Classification: 1-90

Roof Nav Assembly Number	Panel	Minimum Gauge	Min Panel Yield Strength	Minimum Substrate	Substrate Yield Strength	Substrate Spacing	Fasteners
22-0-0	Maxima 218	24	50 ksi	ASTM 570 16 Ga. steel	50 ksi Min.	5'-0" MAX	(2) ¼-14 SD
874-0-0	Maxima 216	24	50 ksi	ASTM 570 16 Ga. steel	50 ksi Min.	5'-0" MAX	(2) ¼-14 SD

*Optional Factory Mutual Research Approved faced glass fiber insulation may be placed between the panel and the substrate.

Classification: 1-165

Roof Nav Assembly Number	Panel	Minimum Gauge	Min Panel Yield Strength	Minimum Substrate	Substrate Yield Strength	Substrate Spacing	Fasteners
26-0-0	Maxima 218	22	53 ksi	ASTM 570 16 Ga. steel	50 ksi Min.	2'-6" MAX	(2) ¼-14 SD
25-0-0	Maxima 216	22	53 ksi	ASTM 570 16 Ga. steel	50 ksi Min.	2'-6" MAX	(2) ¼-14 SD

*Optional Factory Mutual Research Approved faced glass fiber insulation may be placed between the panel and the substrate.

Report No. : 3007455

Dated: June 1, 2000

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MAUSTON, WIASHBURN, GA
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TECHNICAL BULLETIN

Issue Date : June 1, 2006

Revised : April 24, 2017

No. 04-266-06

Tests for Fire Resistance of Roof Covering Materials UL 790 (ASTM E108 and NFPA 256)

Class A

Coated Steel Panels (surfacing) identified as "Multi-Rib", "Master-Lok", "R", "Medallion-Lok", "Medallion", "Medallion I Batten", "Medallion II Batten", "Meridian", "5V-Crimp", "Mega-Rib", "Maxima 1.5", "Maxima 212", "Maxima 216", "Maxima 218", "Maxima 318", "Maxima 324", "Metalogic-2000", "Mirage", "M-Cor", "Multi-Cor", and "Max-Rib", "U", "PBU", "Mirage II", "Maxima ADV", "Met-Tile", "ABC Perma seam Panel", "ABC SL Low Panel", "ABC JSM 200", "ABC Instaloc", "ABC Series 300", "238T Roof Panel", and "138T Roof Panel".

Copper panels (surfacing) identified as "ABC JSM 200".

Aluminum panels (surfacing) identified as "ABC 238T Roof Panel" and "Medallion-Lok".

- 1. Deck: C-15/32 **Incline:** Unlimited **Impact:** Class 4
Barrier Board: - Georgia Pacific ¼ in. min " Densdeck" board or ¼" min United Sates Gypsum Co SECURELOCK® Glass-Mat Roof Board (Type SGMRX), National Gypsum "DEXcell Glass Mat Roof Board" or " DEXcell FV Glass Mat Roof Board", CertainTeed Gypsum "GlasRoc" or ½ in. min UL classified gypsum board with all joints staggered a min of 6 in. from the plywood joints.
Ply Sheet (Optional): - Any UL Classified Type G1, G2 or G3 base/ply sheet, Type 15, 20 or 30 felt or UL Classified prepared roofing accessory or GCP Applied Technologies "Ice and Water Shield".
Surfacing: - Coated Steel, Aluminum, or Copper roofing panels, mechanically fastened or with steel screws when roof deck fasteners (panel clips) not required.
- 2. Deck: NC **Incline:** Unlimited **Impact:** Class 4
Barrier Board (optional): - ¼ in. (min) G-P Gypsum Densdeck® United States Gypsum Co SECURELOCK ®, Glass Mat Roof Board (Type SGMRX), National Gypsum "DEXcell Glass Mat Roof Board" or " DEXcell FV Glass Mat Roof Board", CertainTeed Gypsum "GlasRoc".
Ply Sheet (Optional): - Any UL Classified Type G1, G2 or G3 base/ply sheet, Type 15, 20 or 30 felt or UL Classified prepared roofing accessory or GCP Applied Technologies "Ice and Water Shield".
Surfacing: - Coated Steel, Aluminum, or Copper roofing panels, mechanically fastened or with steel screws when roof deck fasteners (panel clips) not required.
- 3. Deck: NC **Incline:** Unlimited **Impact:** Class 4
Barrier Board (optional): - 7/16 OSB or 5/8 in. plywood over polyisocyanurate insulation board or polyisocyanurate composite board, any thickness.
Ply Sheet (Optional): - Any UL Classified Type G1, G2 or G3 base/ply sheet, Type 15, 20 or 30 felt or UL Classified prepared roofing accessory or GCP Applied Technologies "Ice and Water Shield".
Surfacing: - Coated Steel, Aluminum, or Copper roofing panels, mechanically fastened or with steel screws when roof deck fasteners (panel clips) not required.
- 4. Deck: NC **Incline:** Unlimited **Impact:** Class 4
Barrier Board (optional): - Polyisocyanurate, glass fiber, perlite, or wood fiber, any thickness.
Ply Sheet (Optional): - Any UL Classified Type G1, G2 or G3 base/ply sheet, Type 15, 20 or 30 felt or UL Classified prepared roofing accessory or GCP Applied Technologies "Ice and Water Shield".
Surfacing: - Coated Steel, Aluminum, or Copper roofing panels, mechanically fastened or with steel screws when roof deck fasteners (panel clips) not required.
- 5. Deck: NC **Incline:** Unlimited **Impact:** Class 4
Insulation: - None Required, however any UL Classified insulations may be over open purlin spans. Any combination and any total thickness of insulation may be used.
Surfacing: - Coated Steel, Aluminum, or Copper roofing panels, mechanically fastened or with steel screws when roof deck fasteners (panel clips) not required.
- 6. Deck: C-15/32 **Incline:** Unimited **Impact:** Class 4
Barrier Board: - Georgia Pacific ¼ in. min " Densdeck" board or ¼" min United Sates Gypsum Co SECURELOCK® Glass-Mat Roof Board (Type SGMRX), National Gypsum "DEXcell Glass Mat Roof Board" or " DEXcell FV Glass Mat Roof Board", CertainTeed Gypsum "GlasRoc" or ½ in. min UL classified gypsum board with all joints staggered a min of 6 in. from the plywood joints.
Ply Sheet (Optional): - Any UL Classified Type G1, G2 or G3 base/ply sheet, Type 15, 20 or 30 felt or UL Classified prepared roofing accessory or GCP Applied Technologies "Ice and Water Shield".
Surfacing: - Coated Steel, Aluminum, or Copper roofing panels, mechanically fastened or with steel screws when roof deck fasteners (panel clips) not required.

Class C

- 1. Deck: C-15/32 **Incline:** No Limitations **Impact:** Class 4
Surfacing: - Coated Steel roofing panels, mechanically fastened or with steel screws when roof deck fasteners (panel clips) not required.

Maintenance and Repair

Class A, B, or C

- 1. Deck: C-15/32 **Incline:** No Limitations **Impact:** Class 4

Existing Roof System: - (to maintain existing Classifications) Class A, B or C smooth or mineral surfaced cap sheet or asphalt glass mat shingles or organic felt shingles.

Ply Sheet (Optional): - Type 15 or 30 organic felt or UL classified self-adhering modified bitumen membrane.

Surfacing: - Coated Steel "138T Roof Panel", mechanically fastened or with steel screws when roof deck fasteners (panel clips) not required.



TECHNICAL BULLETIN

Issue Date : June 1, 2006

Revised: December 13, 2013

No. 04-270-06

Tests for Fire Resistance Ratings of Roof Covering Materials

UL 263 (ASTM E119 and NFPA 251)

The following products:

Mechanically attached metal roof panels "Multi-Rib", "Master-Lok 90", "R ", "Medallion-Lok ", "Medallion", "Medallion I Batten", "Medallion II Batten", "5V-Crimp", "Mega-Rib", "Max-Rib", "Maxima 212", "Maxima 216", "Maxima 218", "Maxima 318", "Maxima 324", "Metalogic-2000", "Mirage ", "U", "Maxima 1.5", "Mirage II", "Maxima ADV" and "Met-Tile", secured by steel anchor clips. Anchor clips are attached to a hat shaped member+ (minimum depth 1 in.) or a bearing plate ++.

Mechanically attached metal roof panels, identified as "ABC Permaseam Panel", "ABC SL Low Panel", "ABC JSM 200", "ABC Instaloc", "ABC SERIES 300" and "ABC 238T Roof Panel", secured by steel anchor clips. Anchor clips are attached to a hat shaped member+ (minimum depth 1 in.) or a bearing plate +++.

Have been approved for use in the following Underwriters Laboratories design numbers:

P225, P227, P230, P237, P250, P259, P265, P266, P268, P508, P510, P512, P514, P516, P518, P701, P711, P712, P713, P717, P719, P720, P722, P723, P726, P731, P732, P734, P739, P740, P801, P815, P819, P824, P825, and P828.

+Hat-shaped member to be a minimum of 16 gauge. The member will be fastened through the roof insulation to the steel roof deck with No. 14 self-drilling and/or self-tapping fasteners. Spacing to be determined by the structural loading requirements. In addition any compressible UL Classified glass fiber blanket insulation with or without a vapor-retarder facing may be used between the specified roof insulation and the metal roof panels.

++Bearing plate to be a minimum of 16 gauge. Member will be fastened through the roof insulation to the steel deck with No. 14 self-drilling and/or self-tapping fasteners.

+++Bearing plate to be a minimum of 24 gage . Member will be fastened through the roof insulation to the steel deck with No. 14 self-drilling and/or self-tapping fasteners.

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