

CARSON CITY PURCHASING & CONTRACTS
201 North Carson Street Suite 11 Carson City, NV 89701
775-283-7137 / FAX 887-2107

<http://www.carson.org/Index.aspx?page=998> **NOTICE**
TO CONTRACTORS - BID #1415-143

BID TITLE "Carson City Animal Services Facility"
Labor Commissioner PWP# CC-2015-116
Engineer's Estimate: \$2,900,000
March 19, 2015

Addendum No. 3

Please make the following additions/changes to the above referenced project.

1. The date, time and place for receiving bids remains unchanged.
2. Make the following changes and/or modifications to the Technical Specification or plan set:

Question 1: There are three types of manufactured stone listed in the plans. The specs call out Coronado Eastern Mountain Ledge, Madison County as basis of design (which is one of the stones listed in the plans. Can you confirm that all stone veneer (monument sign, exterior veneer and interior lobby veneer) will all be the same Coronado stone?

Answer: Yes

Question 2: The plans show that the smooth block by the kennel areas gets painted. Is the splitface, single-score block to be exposed? There is a generic spec about submitting a standard range of colors, but not specifically stated if any of the splitface block paints or not.

Answer: The splitface is exposed, not painted.

Question 3: Can OSB be used for shear panel?

Answer: No

Question 4: Verify that 2X material can be used for plan-on truss on the west elevation gable end. Is this material rough sawn or smooth?

Answer: The truss is decorative. Use rough sawn.

Question 5: Are all exterior walls sheared?

Answer: See 1/S201 for shearwall locations.

Question 6: What is the thickness of the Tectum over the Canine roof run?

Answer: 2"

Question 7: What is the lumber layout for the Tectum over the Canine roof runs and the main roof?

Answer: See 1/S200. 2x8 SPF#2 @ 24" oc (Roof Joists).

Question 8: *What is the color for the Hardi trim?*

Answer: *The following are the color selections for the listed items:*

Factory Finish Monterey Taupe *HardiPanel*
HardiTrim Batten Boards
Corner Trim
Eave Frieze Board

Sherwin Williams *HardiTrim around windows.*
Rugged Brown SW 6062

Sherwin Williams *Eave Fascia*
Sable SW 6083 *Eave Soffit*

Question 9: *The Dog Runs and the Intake Garage roof framing calls for TJIs on the structural drawings. The Architectural drawings show an additional Ripper on top of the TJIs that will give a 1/4" in 12" slope to the roof. I have 2 Questions on this:*

1. *Since the Rippers are not on the structural drawings will this design hold the roof top Evaporative Coolers on these roofs?*

Answer: *Curb will be built up and sit directly on the TJI's.*

2. *Would it be possible to raise the ledgers on the to be high side of the TJIs to create the slope without adding the Rippers?*

Answer: *No. Due to the location of the roof drain the roof has to drain to the rear of the building. The slope is perpendicular to the TJI's.*

Question 9: *What is the specified manufacturer for the walk off mat as depicted on plan sheets A101 and F1/A5.2? (This question came directly to Dave)*

Answer: *MatsInc., Ultra Entry, Brown Base with Brown (Kenmore)*

Question 10: *Will there be a 05000 division in the Specifications for Metals?*

Answer: *No. There is no structural steel etc.*

Question 11: *Are there details for the Carport, foundation, concrete slab & structural steel?*

Answer: *See A8/A304.*

Question 12: *Can you please clarify the fastening of the 5/8" sheathing to the T&G roof boards through the 3.5" insulation in the vaulted area, especially at the rakes, eaves and peaks.*

Answer: *Fastening Schedule: #14x5" TEK Screw @ 6" o.c.*

Question 13: *There doesn't appear to be any details showing the fence dimensions/details/specs for the Wrought Iron/Steel Security, Vinyl and Chain link fences and gates.*

Answer: *Fastening Schedule: #14x5" TEK Screw @ 6" o.c.*

Question 14: Is there an electric operator on the 16' chain link gate along with an operator for the 26' wrought iron slide gate? There appears to be a conflict in the Technical Specifications, Tech Specs reference 6' x 26' chain link sliding gate? 2.01 C
Answer: Mark S8, Sliding gate at employee parking entrance is wrought iron and has an operator. Mark S9 is the relocated chain link gate and does not have an operator. See Door Schedule A601.

Question 15: There is a reference to Model 1838 Access Control System to control (3) access points. Where are those (3) access points? I see one is at the 26' wrought iron slide gate, where are the other (2)? 2.02 A/3
Answer: There are 17 access points.

Question 16: How many keypads and where are they to go besides the slide gate? 2.02 A/4
Answer: See Hardware Set Group 10 - A/60. Hardware 10 is the keypad. Keypad at slide gate also.

Question 17: How many card readers are required and where? 2.02 A/5
Answer: See Hardware Set Group A/601 Note 4: *PR is proximity reader.

Question 18: What is Environmental Control? 2.02 A/8d.
Answer: Weather Protection

Question 19: Plumbing drawings show an HR next to the HB2's at all of the canine runs. Does the HR stand for hose reel, and who is providing them and what type?
Answer: HR to be supplied and installed by GC, Add to plumbing schedule as follows: HOSE REEL: GRAINGER LEGACY MODEL 3BA14. WATER HOSE REEL WITH SPRING POWERED RETRACTABLE, CEILING MOUNTABLE, 5/8" INSIDE HOSE DIAMETER, 50' HOSE LENGTH, 3" LEAD-IN HOSE, LAYERING MECHANISM, HIGH FLOW SWIVEL. LATCHING MODE SWITCH, AND POLYPROPYLENE HOUSING.

Question 20: Is the Civil Contractor providing the Yard Hydrant, Bid Proposal.9
Answer: To be provided and installed by plumber

Specifications: Section 06132 – Tectum Ceiling Panel
Addition of specification

Correction: Sheet S200, Keyed Notes #2.
Note should read: 2x8 Deck, DF #2, T&G Flat Decking. See S500.

Substitution Request: Single Ply Membrane Roofing
Sarnafil G410 Feltback Adhered
120 mil Guaranteed Thickness (60mil membrane, 60 mil feltback)
Approved

Substitution Request: Metal Roofing
Metal Sales 1.5 Mini Batten Panel
Must include striations.

Approved as noted.

Substitution Request: Tile

Emser Semplice 6"x6" Biscuit Matte Bullnose & Field tile

Approved

Substitution Request: Tile

Emser Taverna Avorio 20"x20"

Approved

SECTION 06132 - TECTUM CEILING PANEL

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and General Provisions of Contract, including General and Supplementary Conditions and Division 1 Specification sections, apply to Work of this Section.

1.02 SUMMARY

- A. Section includes:
 - 1. Cementitious wood fiber plank exterior ceiling panels mounted to underside of joists at exterior dog run locations.

1.03 RELATED SECTIONS

- A. Section 06100 Rough Carpentry

1.04 SUBMITTALS

- A. Product Data: Submit manufacturer's product data, color charts, samples and installation instructions for each material and product used.
- B. Shop Drawings: Submit shop drawings indicating material characteristics, details of construction, connections and relationship with adjacent construction.
- C. Provide sample for verification of specified finish.

1.05 QUALITY ASSURANCE

- A. Comply with governing codes and regulations. Use installers with experience on similar projects. Use manufacturer capable of fabricating products that meet or exceed performance requirements as indicated and will provide applicable test reports and calculations. Obtain products from single source manufacturer.
- B. Regulatory Requirements and Approvals: ICC-ES Evaluation Report ESR-1112.

1.06 DELIVERY AND STORAGE

- A. Deliver, handle, and store materials in accordance with manufacturer's instructions. Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.
- B. Provide labels indicating brand name, deck style, plank size and plank thickness.

1.07 WARRANTY

- A. Manufacturer's Warranty: Submit, for Owner's acceptance, manufacturer's standard warranty.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. Basis-of-Design Product: Tectum, Inc.
 - 1. Tectum 1 Roof Deck Plank
- B. Substitutions: Under provisions of Division 01.

2.02 MATERIALS

- A. Tectum 1 Roof Deck Plank
 - 1. 2" Thick Panel
- B. Fasteners: Per manufacturer's instructions for type and spacing.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Verify that site conditions are acceptable for installation of roof deck panel system.
- B. Do not proceed with installation of roof deck panel system until unacceptable conditions are corrected.

3.02 INSTALLATION

- A. Roof Deck Plank Installation:
 - 1. Place planks on joists with square cut ends butted tightly together.
 - 2. Secure planks to joists with per manufacturer's instructions.
 - 3. Apply adhesive recommended by manufacturer to ensure diaphragm performance as designed.

3.03 ADJUSTING, CLEANING, PROTECTION

- A. Clean exposed surfaces of all exterior ceiling panel surfaces.
- B. Remove and replace work that cannot be successfully repaired to permanently eliminate evidence of structural damage.
- C. Protect installed work from damage due to weather related moisture.
- D. Protect installed work from damage due to subsequent construction activity on the site so that the work will be without damage and deterioration at the time of acceptance by the Owner.

END OF SECTION



SUBSTITUTION REQUEST

(During the Bidding/Negotiating Stage)

Project: Carson City Animal Services Facility Substitution Request Number: _____
 From: Brian Tanguy
 To: Dave Gasser Date: 3/18/15
 A/E Project Number: _____
 Re: _____ Contract For: _____

Specification Title: Single Ply Membrane Roofing Description: Carlisle EPDM Adhered 115 mil Fleeceback membrane (60 mil membrane, 55 mil Fleeceback)
 Section: 07530 Article/Paragraph: _____

Proposed Substitution: Sarnafil G410 Adhered Feltback 120 mil Guaranteed Thickness membrane (60 mil membrane, 60 mil Feltback)
 Manufacturer: Sika Sarnafil Address: 100 Dan Road, Canton, MA 02021 Phone: 800-451-2502
 Trade Name: Sarnafil G410 Feltback Adhered Model No.: _____

Attached data includes product description, specifications, drawings, photographs, and performance and test data adequate for evaluation of the request; applicable portions of the data are clearly identified.

Attached data also includes a description of changes to the Contract Documents that the proposed substitution will require for its proper installation.

The Undersigned certifies:

- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified product.
- Same warranty will be furnished for proposed substitution as for specified product.
- Same maintenance service and source of replacement parts, as applicable, is available.
- Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
- Proposed substitution does not affect dimensions and functional clearances.
- Payment will be made for changes to building design, including A/E design, detailing, and construction costs caused by the substitution.

Submitted by: Brian Tanguy
 Signed by: *Brian Tanguy*
 Firm: Sika Corporation - Roofing
 Address: 100 Dan Road, Canton, MA 02021
 Telephone: 800-451-2502 X3261

A/E's REVIEW AND ACTION

- Substitution approved - Make submittals in accordance with Specification Section 01 25 00 Substitution Procedures.
 Substitution approved as noted - Make submittals in accordance with Specification Section 01 25 00 Substitution Procedures.
 Substitution rejected - Use specified materials.
 Substitution Request received too late - Use specified materials.

Signed by: _____ Date: _____

Supporting Data Attached: Drawings Product Data Samples Tests Reports _____

SPECIAL CONDITIONS

SECTION 4.1.1C - PRODUCTS AND SUBSTITUTIONS FORM

DATE: 3/16/2015

PROJECT: Carson City Animal Services Facility

ATTENTION: Dave Gasser - Dave@bdaarc.com

Coordinate information with requirements in Section 01600 – Products and Substitutions

Section No. 07411 **Paragraph** 2.01.A **Specified Product** Berridge Manufacturing Company- Tee-Panel

Proposed Substitution: Metal Sales "1.5" Mini Batten" panel- (To meet specification requirements)

Reason for Substitution: We would like to provide our panel.

Product Data:

Attach complete technical data for both the specified product and the proposed substitution. Include information on changes to Contract Documents that the proposed substitution will require for its proper installation.

Samples: As requested **Attached:** Comparison Chart **Will be furnished upon request:** Samples

Does the substitution affect the dimensions shown on the drawings? Condensed Technical Reference Sheet No- Equal Panel

Effects of proposed substitution on other work: None- Equal panel

Differences between proposed substitution and specified product: Metal Sales offers more substantial finish warranty, see attached.

Manufacturer's warranties of the proposed substitution are: See attached Woodland CA Facility

Maintenance service and spare parts are available for proposed substitution from: Denver CO Facility
Spokane, WA Facility
Kent, WA Facility

Cost savings to be realized by Owner, if proposed substitution is approved:

Change to Contract Time, if proposed substitution is approved: Add Deduct
Deduct days

Submittal constitutes a representation that Contractor has read and agrees to the provisions of SECTION 4.1.1B Products and Substitutions.

Approved as noted.

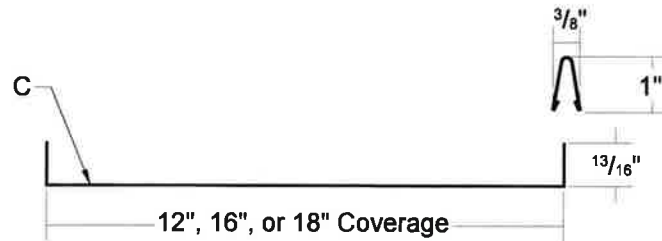
COMPARISON CHART

<u>BERRIDGE</u>	<u>METAL SALES</u>
High Seam Tee-Panel	Mini Batten
18-1/4 to 19-3/4" Coverage	12", 16", 18" Coverage
Snap On Narrow Batten 1" or 1-1/2" high	Snap On Narrow Batten 1" or 1-1/2" high
3:12 min slope	3:12 min slope
24 or 22 gauge	26, 24 or 22 gauge
Kynar 500 Fluoropolymer	Kynar 500 Fluorocarbon
ASTM E283/331 Air & Water	ASTM E283/331 Air & Water
UL90	UL90
UL Fire	UL 263 Fire
unknown	Class A Fire Rating
unknown	UL 2218 Class 4 Impact Resistance
unknown	Texas Windstorm Approved
20 year Paint Finish Warranty	45 year Integrity Paint Finish Warranty (35 year Chalk/Fade)
7 manufacturing locations	19 manufacturing locations

MINI-BATTEN

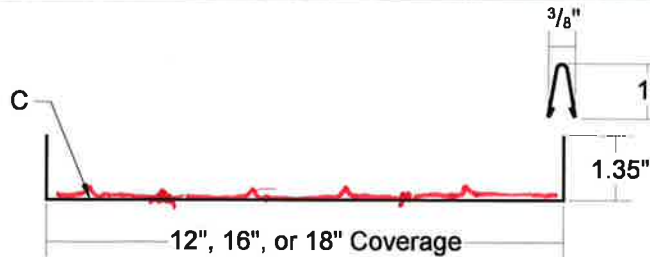
CONDENSED
TECHNICAL
REFERENCE

1" MINI-BATTEN



1 1/2" MINI-BATTEN

*Must include
Striations per
original spec.*



ARCHITECTURAL
PANEL

CONCEALED
FASTENED

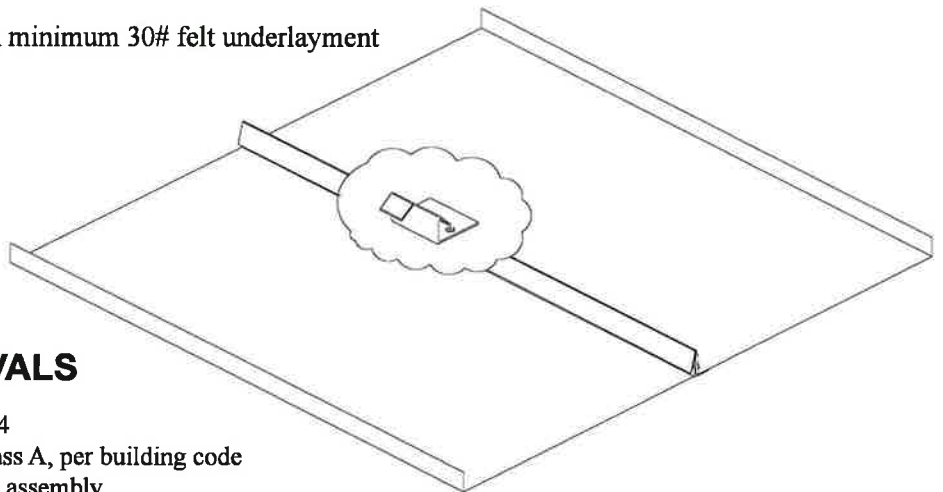
12", 16" OR 18"
COVERAGE

MINIMUM
SLOPE
3:12

SOLID
SUBSTRATE

PANEL OVERVIEW

- ▶ Finishes: PVDF (Kynar 500®), MS Colorfast45® and Acrylic Coated Galvalume®
- ▶ Corrosion Protection: AZ55 per ASTM A 792 for unpainted Galvalume®
AZ50 per ASTM A 792 for painted Galvalume®
G90 per ASTM A 653 for Galvanized
- ▶ Gauges: 26 ga and 24 ga standard; 22 ga optional
- ▶ 12", 16" or 18" panel coverage, 1" or 1 1/2" rib height with narrow batten cap
- ▶ Panel Length: Minimum: 5'; Maximum: 45' recommended
- ▶ Architectural standing rib roof system
- ▶ Minimum roof slope: 3:12
- ▶ Applies over solid substrate with minimum 30# felt underlayment



TESTING AND APPROVALS

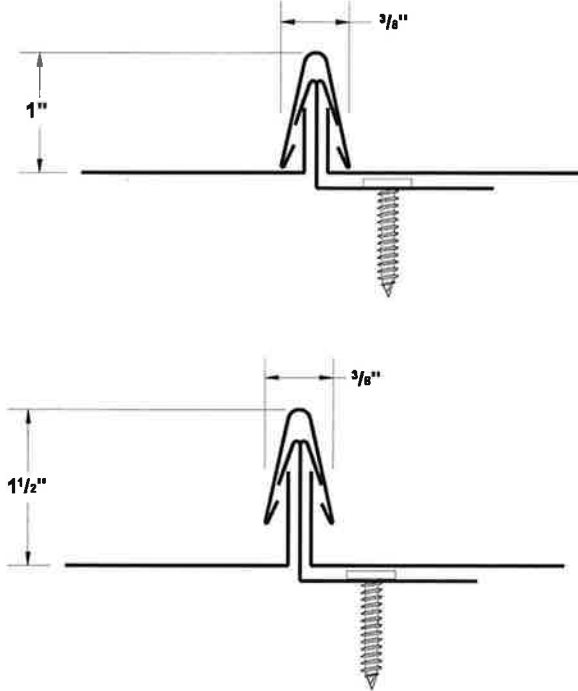
- ▶ UL 2218 Impact Resistance - Class 4
- ▶ UL 790 Fire Resistance Rating - Class A, per building code
- ▶ UL 263 Fire Resistance Rating - per assembly
- ▶ UL 580 Uplift Resistance - Class 90 Constructions:
1" Mini-Batten: #397, #397A and #430
1 1/2" Mini-Batten: #352
- ▶ ASTM E 283 Air Leakage - 0.005 cfm/ft² at 6.24 psf
- ▶ ASTM E 331 Water Penetration - none at 12 psf

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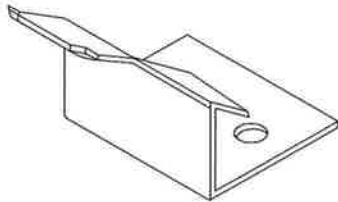
MINI-BATTEN

CONDENSED TECHNICAL REFERENCE

ATTACHMENT DETAILS



PANEL CLIPS



BEND DOWN OVER PANEL



MINI-BATTEN
(1 1/2" rib height)

MINI-BATTEN
(1" rib height)

FASTENING INFORMATION

► Clips

Clip spacing is based upon the design loads, the spanning capacity of the panels, the fasteners and the support members.

Clips are 0.027" thick, G90 galvanized.

Clips can accommodate thermal expansion and contraction.

► Fasteners

Overdriven fasteners will cause panel distortions.

Fasteners should extend 1/2" or more past the inside face of the support material.

Clip Fasteners:

#10-12 Pancake Head Wood Screw

Concealed End Fastener:

#10-12 Pancake Head Wood Screw

Trim Fasteners:

1/4"-14 x 7/8" XL Stitch Screw

1/8" x 3/16" Pop Rivet

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Sellersburg, IN 800.999.7777
Sioux Falls, SD 888.902.8320
Spokane, WA 800.572.6565
Temple, TX 800.543.4415
Woodland, CA 800.759.6019

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SUBSTITUTION REQUEST

(During the Bidding/Negotiating Stage)

Project: Carson City Animal Services Facility Substitution Request Number: _____
 From: Brian Tanguy
 To: Dave Gasser Date: 3/18/15
 A/E Project Number: _____
 Re: _____ Contract For: _____

Specification Title: Single Ply Membrane Roofing Description: Carlisle EPDM Adhered 115 mil Fleeceback membrane (60 mil membrane, 55 mil Fleeceback)
 Section: 07530 Article/Paragraph: _____

Proposed Substitution: Sarnafil G410 Adhered Feltback 120 mil Guaranteed Thickness membrane (60 mil membrane, 60 mil Feltback)
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 Trade Name: Sarnafil G410 Feltback Adhered Model No.: _____

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Submitted by: Brian Tanguy
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Supporting Data Attached: Drawings Product Data Samples Tests Reports _____

SPECIAL CONDITIONS

SECTION 4.1.1C - PRODUCTS AND SUBSTITUTIONS FORM

DATE: 3/16/2015

PROJECT: Carson City Animal Services Facility

ATTENTION: Dave Gasser - Dave@bdaarc.com

Coordinate information with requirements in Section 01600 – Products and Substitutions

Section No. 07411 **Paragraph** 2.01.A **Specified Product** Berridge Manufacturing Company- Tee-Panel

Proposed Substitution: Metal Sales "1.5" Mini Batten" panel- (To meet specification requirements)

Reason for Substitution: We would like to provide our panel.

Product Data:

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Samples: As requested **Attached:** Comparison Chart **Will be furnished upon request:** Samples

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Manufacturer's warranties of the proposed substitution are: See attached Woodland CA Facility

Maintenance service and spare parts are available for proposed substitution from: Denver CO Facility
Spokane, WA Facility
Kent, WA Facility

Cost savings to be realized by Owner, if proposed substitution is approved:

Change to Contract Time, if proposed substitution is approved: Add Deduct
Deduct days

Submittal constitutes a representation that Contractor has read and agrees to the provisions of SECTION 4.1.1B Products and Substitutions.

Approved as noted.

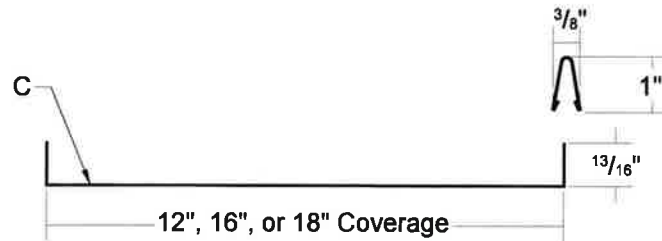
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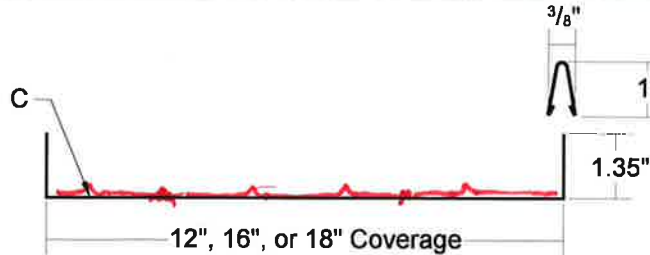
CONDENSED
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REFERENCE

1" MINI-BATTEN



1 1/2" MINI-BATTEN

*Must include
Striations per
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ARCHITECTURAL
PANEL

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FASTENED

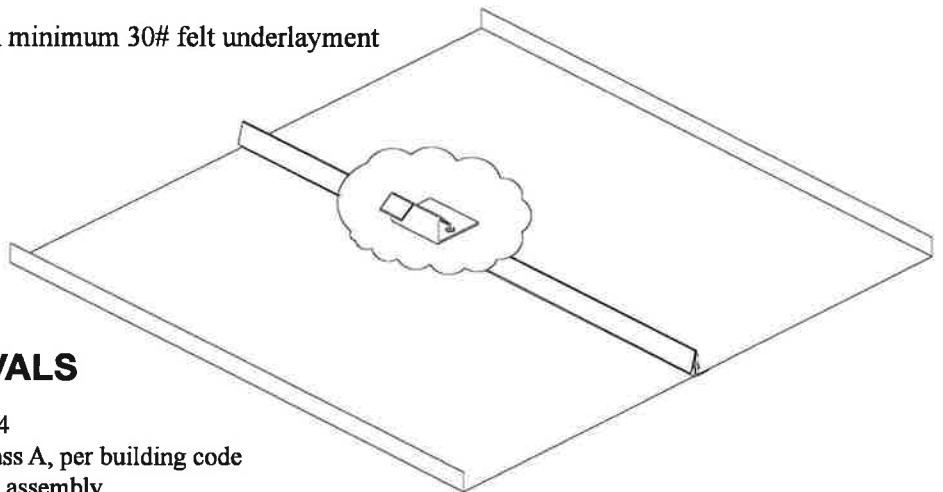
12", 16" OR 18"
COVERAGE

MINIMUM
SLOPE
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SUBSTRATE

PANEL OVERVIEW

- ▶ Finishes: PVDF (Kynar 500®), MS Colorfast45® and Acrylic Coated Galvalume®
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TESTING AND APPROVALS

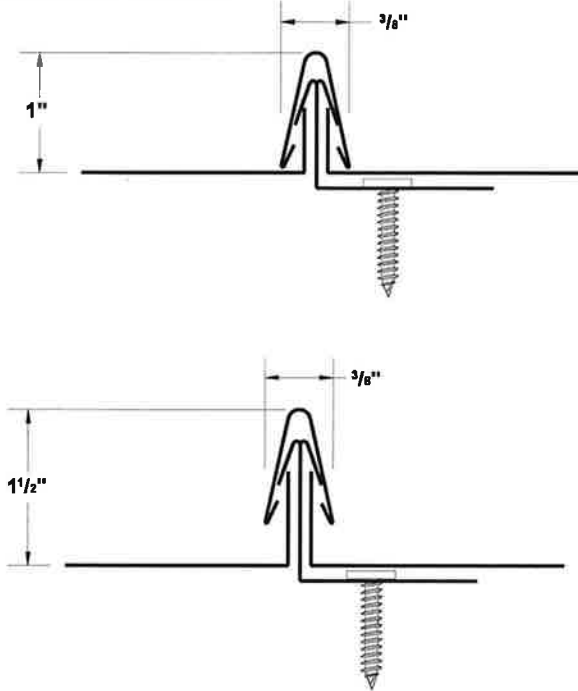
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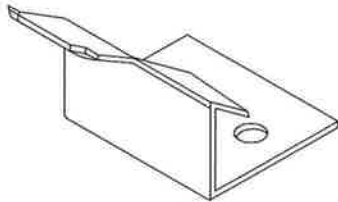
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MINI-BATTEN
(1 1/2" rib height)

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► Fasteners

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Mocksville, NC 800.228.6119
Nashville, TN 800.251.8508
Rock Island, IL 800.747.1206
Rogers, MN 800.328.9316

Seattle, WA 800.431.3470
Sellersburg, IN 800.999.7777
Sioux Falls, SD 888.902.8320
Spokane, WA 800.572.6565
Temple, TX 800.543.4415
Woodland, CA 800.759.6019

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SUBSTITUTION REQUEST

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 Manufacturer: Sika Sarnafil Address: 100 Dan Road, Canton, MA 02021 Phone: 800-451-2502
 Trade Name: Sarnafil G410 Feltback Adhered Model No.: _____

Attached data includes product description, specifications, drawings, photographs, and performance and test data adequate for evaluation of the request; applicable portions of the data are clearly identified.

Attached data also includes a description of changes to the Contract Documents that the proposed substitution will require for its proper installation.

The Undersigned certifies:

- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified product.
- Same warranty will be furnished for proposed substitution as for specified product.
- Same maintenance service and source of replacement parts, as applicable, is available.
- Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
- Proposed substitution does not affect dimensions and functional clearances.
- Payment will be made for changes to building design, including A/E design, detailing, and construction costs caused by the substitution.

Submitted by: Brian Tanguy
 Signed by: *Brian Tanguy*
 Firm: Sika Corporation - Roofing
 Address: 100 Dan Road, Canton, MA 02021
 Telephone: 800-451-2502 X3261

A/E's REVIEW AND ACTION

- Substitution approved - Make submittals in accordance with Specification Section 01 25 00 Substitution Procedures.
 Substitution approved as noted - Make submittals in accordance with Specification Section 01 25 00 Substitution Procedures.
 Substitution rejected - Use specified materials.
 Substitution Request received too late - Use specified materials.

Signed by: _____ Date: _____

Supporting Data Attached: Drawings Product Data Samples Tests Reports _____

SPECIAL CONDITIONS

SECTION 4.1.1C - PRODUCTS AND SUBSTITUTIONS FORM

DATE: 3/16/2015

PROJECT: Carson City Animal Services Facility

ATTENTION: Dave Gasser - Dave@bdaarc.com

Coordinate information with requirements in Section 01600 – Products and Substitutions

Section No. 07411 **Paragraph** 2.01.A **Specified Product** Berridge Manufacturing Company- Tee-Panel

Proposed Substitution: Metal Sales "1.5" Mini Batten" panel- (To meet specification requirements)

Reason for Substitution: We would like to provide our panel.

Product Data:

Attach complete technical data for both the specified product and the proposed substitution. Include information on changes to Contract Documents that the proposed substitution will require for its proper installation.

Samples: As requested **Attached:** Comparison Chart **Will be furnished upon request:** Samples

Does the substitution affect the dimensions shown on the drawings? Condensed Technical Reference Sheet No- Equal Panel

Effects of proposed substitution on other work: None- Equal panel

Differences between proposed substitution and specified product: Metal Sales offers more substantial finish warranty, see attached.

Manufacturer's warranties of the proposed substitution are: See attached Woodland CA Facility

Maintenance service and spare parts are available for proposed substitution from: Denver CO Facility
Spokane, WA Facility
Kent, WA Facility

Cost savings to be realized by Owner, if proposed substitution is approved:

Change to Contract Time, if proposed substitution is approved: Add Deduct
Deduct days

Submittal constitutes a representation that Contractor has read and agrees to the provisions of SECTION 4.1.1B Products and Substitutions.

Approved as noted.

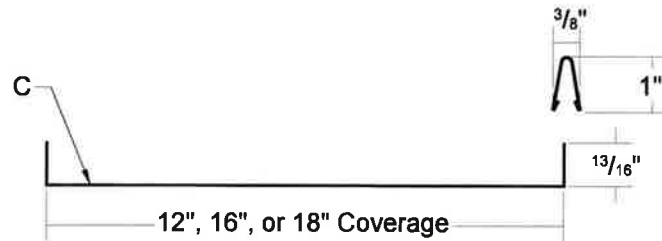
COMPARISON CHART

<u>BERRIDGE</u>	<u>METAL SALES</u>
High Seam Tee-Panel	Mini Batten
18-1/4 to 19-3/4" Coverage	12", 16", 18" Coverage
Snap On Narrow Batten 1" or 1-1/2" high	Snap On Narrow Batten 1" or 1-1/2" high
3:12 min slope	3:12 min slope
24 or 22 gauge	26, 24 or 22 gauge
Kynar 500 Fluoropolymer	Kynar 500 Fluorocarbon
ASTM E283/331 Air & Water	ASTM E283/331 Air & Water
UL90	UL90
UL Fire	UL 263 Fire
unknown	Class A Fire Rating
unknown	UL 2218 Class 4 Impact Resistance
unknown	Texas Windstorm Approved
20 year Paint Finish Warranty	45 year Integrity Paint Finish Warranty (35 year Chalk/Fade)
7 manufacturing locations	19 manufacturing locations

MINI-BATTEN

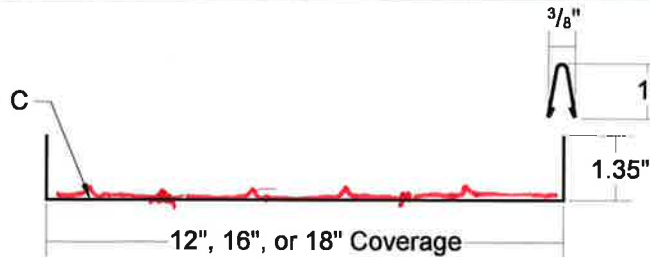
CONDENSED
TECHNICAL
REFERENCE

1" MINI-BATTEN



1 1/2" MINI-BATTEN

*Must include
Striations per
original spec.*



ARCHITECTURAL
PANEL

CONCEALED
FASTENED

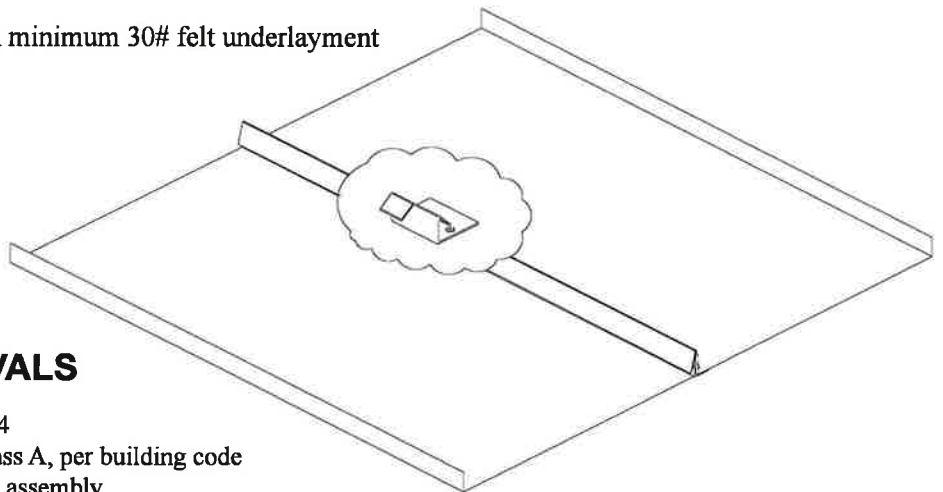
12", 16" OR 18"
COVERAGE

MINIMUM
SLOPE
3:12

SOLID
SUBSTRATE

PANEL OVERVIEW

- ▶ Finishes: PVDF (Kynar 500®), MS Colorfast45® and Acrylic Coated Galvalume®
- ▶ Corrosion Protection: AZ55 per ASTM A 792 for unpainted Galvalume®
AZ50 per ASTM A 792 for painted Galvalume®
G90 per ASTM A 653 for Galvanized
- ▶ Gauges: 26 ga and 24 ga standard; 22 ga optional
- ▶ 12", 16" or 18" panel coverage, 1" or 1 1/2" rib height with narrow batten cap
- ▶ Panel Length: Minimum: 5'; Maximum: 45' recommended
- ▶ Architectural standing rib roof system
- ▶ Minimum roof slope: 3:12
- ▶ Applies over solid substrate with minimum 30# felt underlayment



TESTING AND APPROVALS

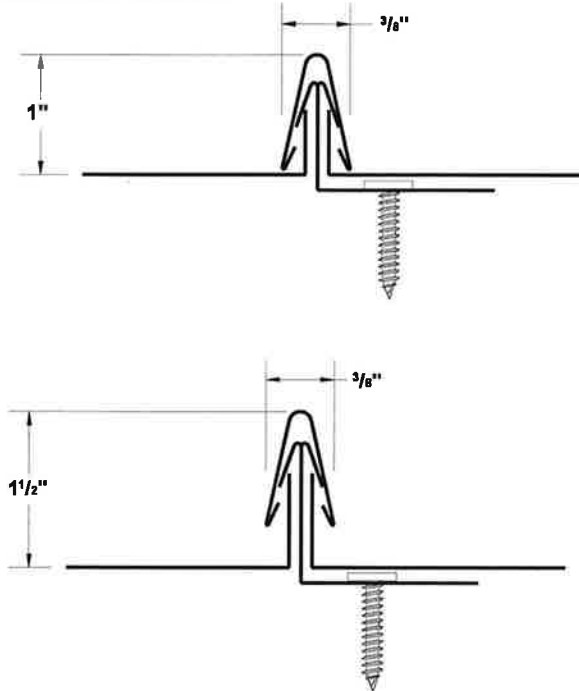
- ▶ UL 2218 Impact Resistance - Class 4
- ▶ UL 790 Fire Resistance Rating - Class A, per building code
- ▶ UL 263 Fire Resistance Rating - per assembly
- ▶ UL 580 Uplift Resistance - Class 90 Constructions:
1" Mini-Batten: #397, #397A and #430
1 1/2" Mini-Batten: #352
- ▶ ASTM E 283 Air Leakage - 0.005 cfm/ft² at 6.24 psf
- ▶ ASTM E 331 Water Penetration - none at 12 psf

MS metal sales
manufacturing corporation

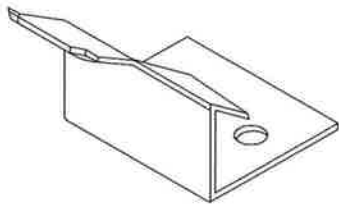
MINI-BATTEN

CONDENSED TECHNICAL REFERENCE

ATTACHMENT DETAILS



PANEL CLIPS



BEND DOWN OVER PANEL



MINI-BATTEN
(1 1/2" rib height)

MINI-BATTEN
(1" rib height)

FASTENING INFORMATION

► Clips

Clip spacing is based upon the design loads, the spanning capacity of the panels, the fasteners and the support members.

Clips are 0.027" thick, G90 galvanized.

Clips can accommodate thermal expansion and contraction.

► Fasteners

Overdriven fasteners will cause panel distortions.

Fasteners should extend 1/2" or more past the inside face of the support material.

Clip Fasteners:

#10-12 Pancake Head Wood Screw

Concealed End Fastener:

#10-12 Pancake Head Wood Screw

Trim Fasteners:

1/4"-14 x 7/8" XL Stitch Screw

1/8" x 3/16" Pop Rivet

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metal sales
manufacturing corporation



Anchorage, AK 866.640.7663
Bay City, MI 888.777.7640
Deer Lake, PA 800.544.2577
Denver, CO 800.289.7663
Detroit Lakes, MN 888.594.1394
Fontana, CA 800.782.7953
Fort Smith, AR 877.452.3915

Independence, MO 800.747.0012
Jacksonville, FL 800.394.4419
Jefferson, OH 800.321.5833
Mocksville, NC 800.228.6119
Nashville, TN 800.251.8508
Rock Island, IL 800.747.1206
Rogers, MN 800.328.9316

Seattle, WA 800.431.3470
Sellersburg, IN 800.999.7777
Sioux Falls, SD 888.902.8320
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