

HISTORIC PRESERVATION COMMISSION

Marc Elrich County Executive Robert K. Sutton *Chairman* Date: June 6, 2024

MEMORANDUM

TO:	Rabbiah Sabbakhan, DPS Director Department of
	Permitting Services
FROM:	Chris Berger
	Historic Preservation Section
	Maryland-National Capital Park & Planning Commission
SUBJECT:	Historic Area Work Permit #1070348 - Replacement roof

The Montgomery County Historic Preservation Commission (HPC) has reviewed the attached application for a Historic Area Work Permit (HAWP). This application was <u>approved</u> by the HPC staff.

The HPC staff has reviewed and stamped the attached construction drawings.

THE BUILDING PERMIT FOR THIS PROJECT SHALL BE ISSUED CONDITIONAL UPON ADHERENCE TO THE ABOVE APPROVED HAWP CONDITIONS AND MAY REQUIRE APPROVAL BY DPS OR ANOTHER LOCAL OFFICE BEFORE WORK CAN BEGIN.

Applicant:Mark AebigAddress:12 High St., Brookeville

This HAWP approval is subject to the general condition that the applicant will obtain all other applicable Montgomery County or local government agency permits. After the issuance of these permits, the applicant must contact this Historic Preservation Office if any changes to the approved plan are made. Once work is complete the applicant will contact Chris Berger at 301-495-4571 or chris.berger@montgomeryplanning.org to schedule a follow-up site visit.





HAWP #

submitted

has been reviewed and determined that the proposal fits into the following category/categories:

Repair or replacement of a masonry foundation with new masonry materials that closely match the original in appearance;

at:

Installation of vents or venting pipes in locations not visible from the public right-of-way;

New gutters and downspouts;

Removal of vinyl, aluminum, asbestos, or other artificial siding when the original siding is to be repaired and/or replaced in kind;

Removal of accessory buildings that are not original to the site or non-historic construction;

Repair or replacement of missing or deteriorated architectural details such as trim or other millwork, stairs or stoops, porch decking or ceilings, columns, railings, balusters, brackets shutters, etc., with new materials that match the old in design, texture, visual characteristics, and, where possible materials, so long as the applicant is able to provide one extant example, photographic evidence, or physical evidence that serves as the basis for the work proposed;

Construction of wooden decks that are at the rear of a structure and are not visible from a public right-of-way;

Roof replacement with -compatible roofing materials, or with architectural shingles replacing 3-Tab asphalt shingles;

Installation of storm windows or doors that are compatible with the historic resource or district;

Repair, replacement or installation of foundation-level doors, windows, window wells, and areaways, or foundation vents, venting pipes, or exterior grills that do not alter the character-defining features and/or the historic character of the resource;

Construction of fences that are compatible with the historic site or district in material, height, location, and design; Fence is lower than 48" in front of rear wall plane; Construction of walkways, parking pads, patios, driveways, or other paved areas that are not visible from a public right-of-way and measure no more than 150 square feet in size;

Replacement of existing walkways, parking pads, patios, driveways, or other paved areas with materials that are compatible with the visual character of the historic site and district and that are no greater than the dimensions of the existing hardscape;

Construction of small accessory buildings no larger than 250 square feet in size that are not visible from the public right-of-way;

Installations of skylights on the rear of a structure that will not be visible from the public right-of-way, and would not remove or alter character-defining roof materials;

Installation of solar panels and arrays in locations that are not readily visible from the public right-of-way or that are designed so as to have a minimal impact on the historic resource or the historic district (e.g., systems that are ground-mounted in areas other than the front or side yard of a corner lot, located on accessory or outbuildings, on non-historic additions, or on rear facing roof planes);

Installation of car charging stations in any location on a property or in the right-of-way;

Installation of satellite dishes;

Removal of trees greater than 6" in diameter (d.b.h.) that are dead, dying, or present an immediate hazard.

Removal of trees greater than 6" in diameter (d.b.h.) in the rear of the property that will not impact the overall tree canopy of the surrounding district or historic site;

Replacement tree required as a condition; and, Other minor alterations that may be required by the

Department of Permitting Services post-Commission approval that would have no material effect on the historic character of the property.

Staff finds the proposal complies with Chapter 24A, the Secretary of the Interior's Standards for Rehabilitation, and any additional requisite guidance. Under the authority of COMCOR No. 24A.04.01, this HAWP is approved by <u>Chinetopheng</u>. Buyon on ______. The approval memo and stamped drawings follow.

Historic Preservation Commission • 2425 Reedie Drive, 13th Floor, Wheaton, MD 20902 • 301/563-3400 • 301/563-3412 FAX

HISTOF	APPLICATION FOR RIC AREA WORK PE DRIC PRESERVATION COMMISSIO 301.563.3400	
APPLICANT:		
Name:	E-mail:	
Address:	City:	Zip:
Daytime Phone:	Tax Account	t No.:
AGENT/CONTACT (if applicable	»):	
Name:	E-mail:	
Address	City:	Zip:
D REVIEWED By Chris Berger at 10:50 ar	Contractor	Registration No.:
APPROVED Is t Montgomery County Is t Historic Preservation Commis ma	ric District?Yes/District N No/Individual ssion Frust/Environmental Easeme	
Are (Co sup	miner Approvals /Reviews Re , etc.?) If YES, include inform	equired as part of this Application? ation on these reviews as
Building Number:	Street:	
Town/City:	Nearest Cross Street:	
Lot: Block:	Subdivision: Parc	el:
	e the checklist on Page 4 to ver tted with this application. Incom	
be accepted for review. Check		Shed/Garage/Accessory Structure
New Construction	Deck/Porch	Solar
Addition	Fence	Tree removal/planting
Demolition	Hardscape/Landscape	Window/Door
Grading/Excavation	Roof	Other:

I hereby certify that I have the authority to make the foregoing application, that the application is correct and accurate and that the construction will comply with plans reviewed and approved by all necessary agencies and hereby acknowledge and accept this to be a condition for the issuance of this permit.

HAWP APPLICATION: MAILING ADDRESSES FOR NOTIFING [Owner, Owner's Agent, Adjacent and Confronting Property Owners]						
Owner's mailing address	Owner's A	Agent's mailing address				
REVIEW		n 06, 2024 ng addresses				
Mo Historic Pr	APPROVED ntgomery County reservation Commission					

Description of Property: Please describe the building and surrounding environment. Include information on significant structures, landscape features, or other significant features of the property:

Description of Work Proposed: Please give an overview of the work to be undertaken:



Work Item 1:		
Description of Current Condition:	Proposed Work:	
Work Item 2:		
Description of Current Condition:	Proposed Work: REVIEWED By Chris Berger at 10:50 am, Jun APPROVED Montgomery County Historic Preservation Commission	06, 2024
Work Item 3:	Ramkh. Matta	
Description of Current Condition:	Proposed Work:	

HISTORIC AREA WORK PERMIT CHECKLIST OF APPLICATION REQUIREMENTS

	Required Attachments						
Proposed Work	I. Written Description	2. Site Plan	3. Plans/ Elevations	4. Material Specifications	5. Photographs	6. Tree Survey	7. Property Owner Addresses
New Construction	*	*	*	*	*	*	*
Additions/ Alterations	*	*	*	*	*	*	*
Demolition	*	*	*		*		*
Deck/Porch	*	*	*	*	*	*	*
Fence/Wall	*	*	*	*	*	*	*
Driveway/ Parking Area	*	*		*	*	*	*
Grading/Exc avation/Land scaing	*	*		*	*	*	*
Tree Removal	*	*		*	*	*	*
Siding/ Roof Changes	*	*	*	*	*		*
Window/ Door Changes	*	*	*	*	*		*
Masonry Repair/ Repoint	*	*	*	*	*		*
Signs	*	*	*	*	*		*

APPROVED

Montgomery County Historic Preservation Commission

RAME La MATA

REVIEWED

By Chris Berger at 10:50 am, Jun 06, 2024

[EXTERNAL EMAIL] Exercise caution when opening attachments, clicking links, or responding.

The proposal from our contractor specs a McElroy 26 gauge 17" wide panel with a 1" seam height to be installed in historic fashion with 2" folded eave tails (drip edge), double rolled ridge and valleys

On Mon, Jun 3, 2024, 9:40 AM Berger, Chris <<u>Chris.Berger@montgomeryplanning.org</u>> wrote:

Good morning,

Yes, we still need specifications for the metal panel to be selected.

This will not be reviewed at the June 12 meeting, but it appears staff can approve administratively once you select a design for the metal panels.

Chris Berger, AICP

Cultural Resources Planner III

Montgomery County Planning Department

2425 Reedie Drive, 13th Floor, Wheaton, MD 20902

Chris.Berger@montgomeryplanning.org

Office: 301-495-4571

REVIEWED

By Chris Berger at 10:50 am, Jun 06, 2024

APPROVED Montgomery County Historic Preservation Commission

From: Mark Aebig <<u>aebigm@gmail.com</u>> Sent: Monday, June 3, 2024 8:16 AM To: Berger, Chris <<u>Chris.Berger@montgomeryplanning.org</u>> Subject: Re: 12 High Street, Brookeville - HAWP No. 1070348

[EXTERNAL EMAIL] Exercise caution when opening attachments, clicking links,

or responding.

Mr Berger

Yes it will be a full replacement. Do you still need material from me.

Also I did not see this permit listed on the 6/12 agenda document on line. Is it going to be reviewed then?

Thanks

MAebig

On Wed, May 29, 2024, 10:48 AM Berger, Chris <<u>Chris.Berger@montgomeryplanning.org</u>> wrote:

Thank you for these materials. It appears all the sections of roofs, including the existing standing seam roof section next to the steeple, will be replaced. Is that correct?

We also need the specifications for the specific metal panel to be installed. Perhaps it will be one of these: <u>https://www.berridge.com/products/standing-seam-systems/</u>

Chris Berger, AICP

Cultural Resources Planner III

Montgomery County Planning Department

2425 Reedie Drive, 13th Floor, Wheaton, MD 20902

Chris.Berger@montgomeryplanning.org

Office: 301-495-4571

REVIEWED By Chris Berger at 10:50 am, Jun 06, 2024

From: Mark Aebig <<u>aebigm@gmail.com</u>> Sent: Tuesday, May 28, 2024 6:06 PM To: Berger, Chris <<u>Chris.Berger@montgomeryplanning.org</u>> Subject: Re: 12 High Street, Brookeville - HAWP No. 1070348

Rame h. Man

APPROVED

Montgomery County Historic Preservation Commission

[EXTERNAL EMAIL] Exercise caution when opening attachments, clicking links,

or responding.

On Tue, May 28, 2024, 2:37 PM Berger, Chris <<u>Chris.Berger@montgomeryplanning.org</u>> wrote:

Hello,

Staff has received your application to replace the roof at Salem United Methodist Church, but we need more information before we can approve the work. Please provide the following:

- Photos of the existing roof.
- Specifications for the proposed roof.
- A roof plan that shows which areas of the roof will be changed, if not all sections of the building's roof will be replaced.

You can email me that information.

Chris Berger, AICP

Cultural Resources Planner III

Montgomery County Planning Department

2425 Reedie Drive, 13th Floor, Wheaton, MD 20902

Chris.Berger@montgomeryplanning.org

Office: 301-495-4571

REVIEWED

By Chris Berger at 10:50 am, Jun 06, 2024

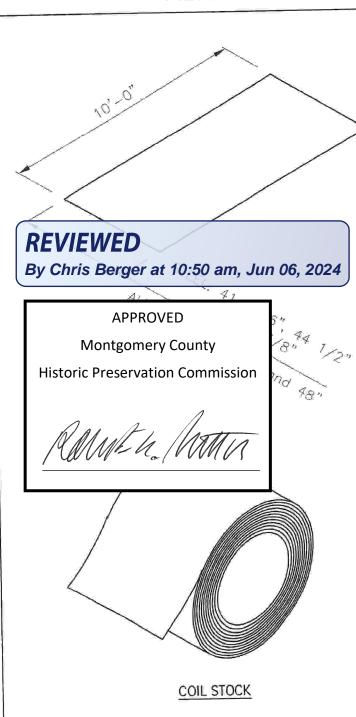
APPROVED Montgomery County Historic Preservation Commission RAME La MATTA

MCELROY METAL, INC



www.mcelroymetal.com

Flat Sheet / Slit Coil



Product Data

Applications

Steel Flat Sheets come in standard lengths of 10'-0" and standard widths of: 41 9/16", 44 1/2" and 48 3/8".

Aluminum Flat Sheets come in standard lengths of 10'-0" and standard widths of:

- 0.032" Aluminum - 41 9/16" and 48"

- 0.040" Aluminum - 48" only

Please contact your McElroy Metal representative for availability per producing plant.

Material

Availability - *22 GA. ASTM A792 (50 ksl steel) AZ55 - Bare AZ50 - Painted

- 24 GA. ASTM A792 (50 ksi steel) AZ55 Bare
 - AZ50 Painted
- 26 GA. ASTM A792 (50 ksi steel) AZ55 Bare AZ50 - Painted
- **29 GA. ASTM A792 (37 ksi steel) AZ55 Bare
 - AZ50 Painted
- 0.032" Aluminum ASTM B209 Alloy 3003 H14
- 0.040" Aluminum ASTM B206 Alloy 3003 H14

*Note: Check Availability with your McElroy Metal Representative. **Note: Available in 48 3/8" wide coil only.

Slit Coll

Master Coil Slitting in the following plants: Adelanto, CA Clinton, IL Houston, TX Peachtree City, GA Sunnyvale, TX Winchester, VA

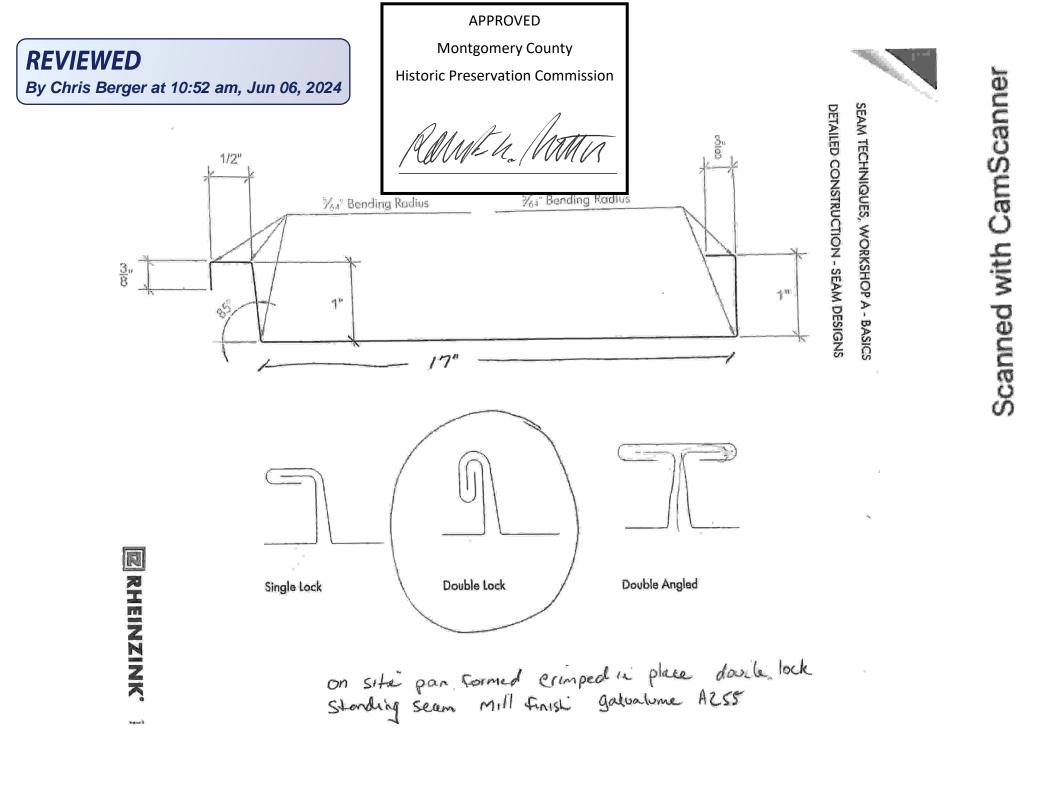
Finishes

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

Oil canning is inherent in all metal and is not cause for rejection.

NOTE:

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

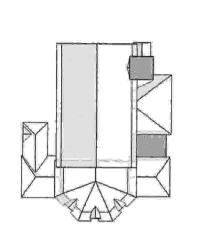


E/ eagleview*

Premium Report 11/16/2022

12 High St, Brookeville, MD 20833-2500

Report: 49740986



In this 3D model, facets appear as semi-transparent to reveal overhangs.

Building: PO: 3. Neal Mccarty

PREPARED FOR

Contact: Company: Address:

Phone:

ABC Supply Co. 15 Derwood Cir Rockville, MD 20850-1263 301-294-4000

Joe Tozer

TABLE OF CONTENTS

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Length Diagram
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MEASUREMENTS

Total Roof Area =4,850 sq ft Total Roof Facets =45 Predominant Pitch =16/12 Number of Stories >1 Total Ridges/Hips =297 ft Total Valleys =85 ft Total Rakes =148 ft Total Rakes =369 ft Total Penetrations =6 Total Penetrations Perimeter = 50 ft Total Penetrations Area = 58 sq ft

REVIEWED By Chris Berger at 10:50 am, Jun 06, 2024

APPROVED

Montgomery County

Historic Preservation Commission

amen Mon m,

www.eagleview.com/Guarantee.aspx

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eagleview^{*}

Report: 49740986

12 High St, Brookeville, MD 20833-2500

IMAGES

The following aerial images show different angles of this structure for your reference.



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/ eagleview

Premium Report 11/16/2022

Report: 49740986

12 High St, Brookeville, MD 20833-2500

IMAGES

North Side



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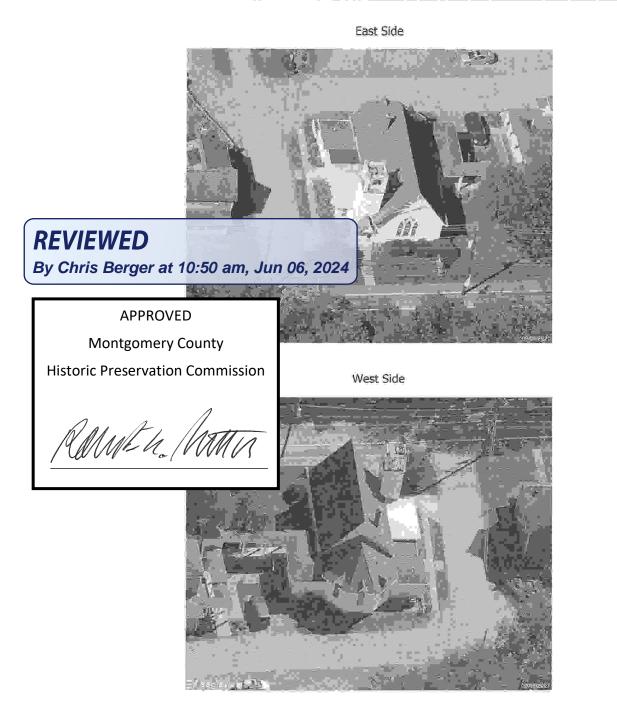


12 High St, Brookeville, MD 20833-2500

Premium Report 11/16/2022

Report: 49740986

IMAGES

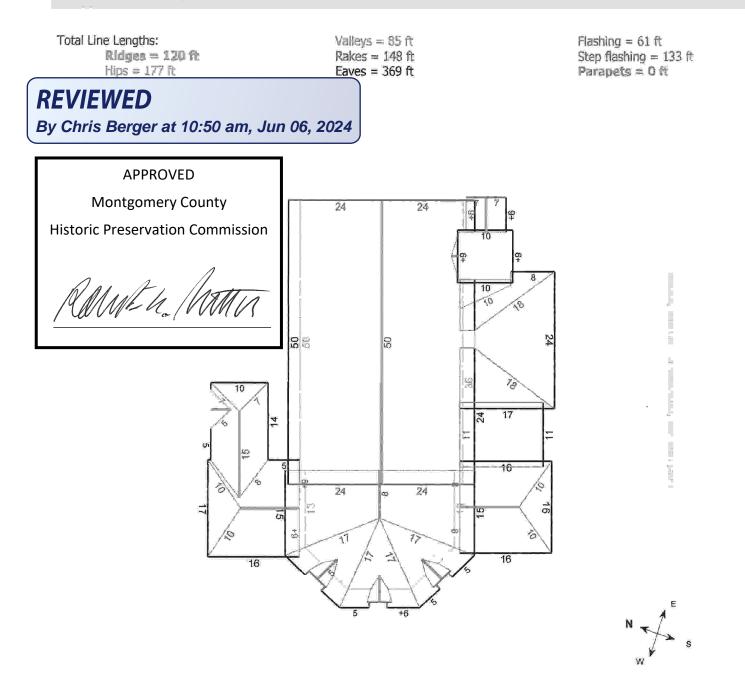


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12 High St, Brookeville, MD 20833-2500

LENGTH DIAGRAM



Note: This diagram contains segment lengths (rounded to the nearest whole number) over 5.0 Feet. In some cases, segment labels have been removed for readability. Plus signs preface some numbers to avoid confusion when rotated (e.g. +6 and +9).



12 High St, Brookeville, MD 20833-2500

PITCH DIAGRAM

Pitch values are shown in inches per foot, and arrows indicate slope direction. The predominant pitch on this roof is 16/12

REVIEWED By Chris Berger at 10:50 am, Jun 06, 2024 **APPROVED** Montgomery County ← 22 22) **Historic Preservation Commission** F RAMEL_ MATTO 2-> $3 \rightarrow$ 8 ← 16 $16 \rightarrow$ 8 Ļ F 1 0 ← 10 $10 \rightarrow$ Δ ← 5 4 ŝ ŝ 1 1

Note: This diagram contains labeled pitches for facet areas larger than 20.0 square feet. In some cases, pitch labels have been removed for readability. Blue shading indicates a pitch of 3/12 and greater. Gray shading indicates flat, 1/12 or 2/12 pitches. If present, a value of "F" indicates a flat facet (no pitch).

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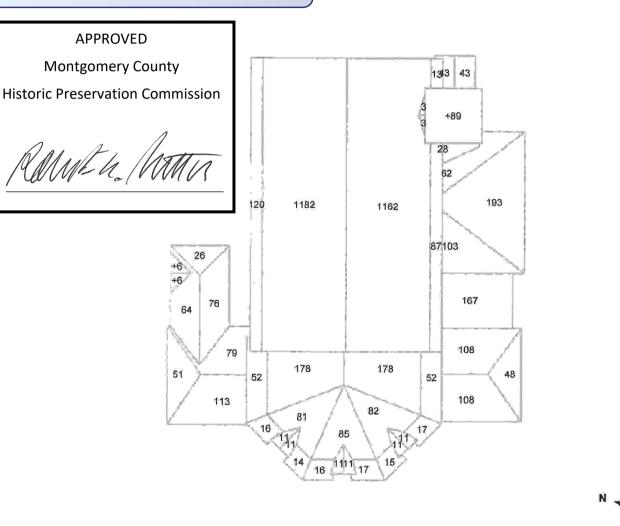
12 High St, Brookeville, MD 20833-2500

AREA DIAGRAM

Total Area = 4,850 sq ft, with 45 facets.

REVIEWED

By Chris Berger at 10:50 am, Jun 06, 2024



Note: This diagram shows the square feet of each roof facet (rounded to the nearest Foot). The total area in square feet, at the top of this page, is based on the non-rounded values of each roof facet (rounded to the nearest square foot after being totaled).

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12 High St, Brookeville, MD 20833-2500

NOTES DIAGRAM

1 4- 74 for easy reference.

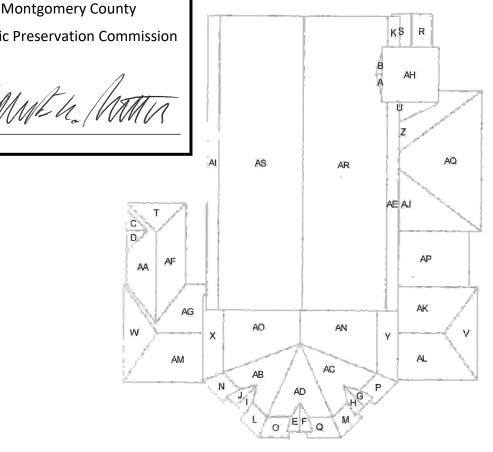
REVIEWED

By Chris Berger at 10:50 am, Jun 06, 2024

APPROVED









Note: This diagram also appears in the Property Owner Report.

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12 High St, Brookeville, MD 20833-2500

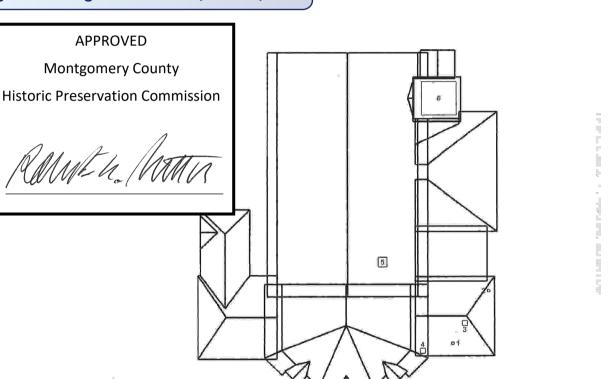
PENETRATIONS NOTES DIAGRAM

Penetrations are labeled from smallest to largest for easy reference.

Total Penetrations = 6Total Penetrations Perimeter = 50 ft

REVIEWED

By Chris Berger at 10:50 am, Jun 06, 2024



Total Penetrations Area = 58 sq ft

Total Roof Area Less Penetrations = 4,792 sq ft



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12 High St, Brookeville, MD 20833-2500

Report: 49740986

REPORT SUMMARY

All Structures

Areas per Pitch			1.2.6			3. ⁴ 26			
Roof Pitches	0/12	2/12	3/12	4/12	5/12	8/12	10/12	16/12	22/12
Area (sq ft)	255.7	27,9	765.9	425.6	56.5	219.5	604.1	2409.1	85.4
% of Roof	5.3%	0.6%	15.8%	8.8%	1.2%	4.5%	12.5%	49.7%	1.8%

The table above lists each pitch on this roof and the total area and percent (both rounded) of the roof with that pitch.

Waste Calcul	ation Table				W.L.A		
Waste %	0%	10%	12%	15%	17%	20%	22%
Area (sg ft)	4.850	5,335	5,432	5577.5	5674.5	5,820	5,917
REVIEN	VED.5			55.8	56.7	58.2	59.2

By Chris Berger at 10:50 am, Jun 06, 2024 to the nearest decimal) based upon different waste percentages. The I roofing techniques and your experience. Please consider this when calculating appropriate waste percentages. Note that only roof area is included in these waste calculations. Additional materials

Ĩ	and and a set of the set	s are no	t included.						
	APPROVED	5	6	BANKS		بر النظم			
	Montgomery Count	Y 6	49						
	Historic Preservation Com	mission 10	28						
	$\frac{MMMLh_a}{M}$	3.0 Fee total roo ireas an 20 ft (11 ft (16 Hi Valleys = 85 ft (19 N Rakes [†] = 148 ft (22 Eaves/Starter [#] = 36 Drip Edge (Eaves + Parapet Walls = 0 (0 Flashing = 61 ft (14 Step flashing = 133 Total Penetrations A Total Roof Area Less Total Penetrations P Predominant Pitch =	d Pitches Ridges) ps). /alleys) Rakes) 9 ft (32 Eave Rakes) = 51 0 Lengths). Lengths). ft (22 Lengt rea = 58 sq 5 Penetratior erimeter = 5 : 16/12	es) 7 ft (54 Lei hs) ft 15 = 4,792 1 50 ft	ngths)	Proper Longitu Latitude Notes This wa propert	ty Location de = -77.0 e = 39.179 as ordered y. There w	on)584591	ercial nges to
		Total Area (All Pit	cnes = 4,8	m pa uce					

† Rakes are defined as roof edges that are sloped (not level).

Eaves are defined as roof edges that are not sloped and level.

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12 High St, Brookeville, MD 20833-2500

Report: 49740986

Online Maps
Online map of property
http://maps.google.com/maps?f=g&source=s_g&hl=en&geocode=&g=12+High+St,Brookeville,MD,20833-2500
Directions from ABC Supply Co. to this property
http://maps.google.com/maps?f=g&source=s_g&hl=en&geocode=&g=12+High+St,Brookeville,MD,20833-2500
Directions from ABC Supply Co. to this property
http://maps.google.com/maps?f=d&source=s_d&saddr=15+Derwood+Cir,Rockville,MD,20850-

1263&daddr=12+High+St,Brookeville,MD,20833-2500

REVIEWED

By Chris Berger at 10:50 am, Jun 06, 2024

APPROVED

Montgomery County

Historic Preservation Commission

RAME La MAR



Legal Notice and Disclaimer

11/16/2022

12 High St, Brookeville, MD 20833-2500

Report: 49740986

IMPORTANT LEGAL NOTICE AND DISCLAIMER

Notice and Disclaimer

No Warranty: The Copyrighted Materials are provided to you "as is," and you agree to use it at your own risk.

EagleView Technologies makes no guarantees, representations or warranties of any kind, express or implied, arising by law or otherwise, including but not limited to, content, quality, accuracy, completeness, effectiveness, reliability, fitness for a particular purpose, usefulness, use or results to be obtained from the Copyrighted Materials.

Contractors agree to always conduct a preliminary site survey to verify Roof Report ordered. In the event of an error in a Report, your sole remedy will be a refund of the fees paid by you to obtain this Report.

REVIEWED By Chris Berger at 10:50 am, Jun 06, 2024

APPROVED Montgomery County

Historic Preservation Commission

RAME H. MA

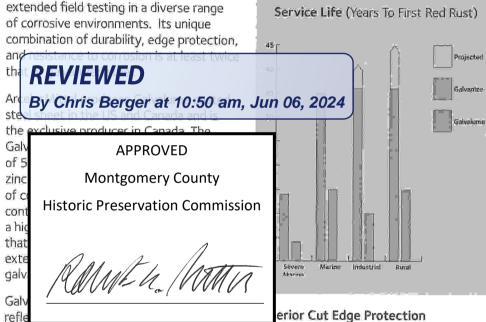
rcelarMittal Solutions in Steel - for Construction

Unpainted Galvalume[™] Steel Fact Sheet

A Superior Building Material

ArcelorMittal GalvalumeTM is a coated steel product that has proven its superior performance as a building material in extended field testing in a diverse range

of equal coating thickness, shows that Galvalume has at least twice the service life versus galvanized.



energy load on buildings and improved interior comfort.

From an aesthetic perspective, the fine spangle and gentle sheen of unpainted Galvalume offers a very attractive appearance.

Product Characteristics

Proven Superior Corrosion Resistance

Galvalume steel sheet can be expected to provide at least twice the service life of traditional zinc-coatings of similar coating thickness under the same exposure conditions. This has been proven by actual exposure tests using flat coupon samples, conducted over 36 years in the U.S.A. and 15 years in Canada.

The tests covered a variety of environments ranging from rural to severe marine. The following chart, comparing the performance of Galvalume and galvanized

erior Cut Edge Protection

The aluminum and zinc in the coating combine to prevent corrosion at exposed edges. The zinc component of the Galvalume coating provides galvanic cut edge protection, while the aluminum component remains as a continuing barrier to corrosion.

Heat Reflectivity and Solar Reflectance (Energy Efficiency)

Bare, unpainted Galvalume has undergone extensive testing by the Oak Ridge National Laboratory (ORNL), to determine its solar reflective performance. Test results have qualified Galvalume as an approved roof product by the U.S. EPA - ENERGY STAR Program, for both low-slope and highslope applications.

On newly manufactured Galvalume, heat reflectivity was rated above the minimum U.S. EPA requirement of 0.65. For

weathered roofs over three years of age, the overall solar reflectance also exceeded the minimum U.S. EPA requirement of 0.50 for maintenance reflectivity.

ArcelorM

Enhanced Surface Treatment

ArcelorMittal offers a variety of surface treatments suited to specific manufacturing and application needs.

For unpainted applications, bare Galvalume Plus™ is available. Galvalume Plus has a clear, organic resin coating applied to both sides of Galvalume steel sheet, can be rollformed without lubricants, and is delivered to the job site with an oil-free surface. See our Fact Sheet on Galvalume Plus for more information.

Unpainted Galvalume can also be passivated with a chemical treatment. With this treatment, Galvalume must be oiled with either vanishing or slushing oil.

If color is specified, Galvalume steel sheet can be ordered as prepainted coil. This option offers an additional layer of paint protection in a wide assortment of attractive colors and paint systems. See our Fact Sheet on Prepainted Galvalume Steel for more information.

Applications

Galvalume has many proven applications in Commercial, Industrial, Institutional, Agricultural, and Residential Construction.

- Low-slope structural roofing
- High-slope architectural roofing
- Cladding and siding
- Quonset Buildings
- Pre-engineered Steel Buildings
- Building Accessories
- Construction Tubular
- Structural Steel Framing
- Appliance Components
- Automotive Parts

Points to Remember

Compatibility with Dissimilar Metals

All materials that can be used in contact with galvanized steel sheet can be used with complete safety in contact with Galvalume. However, as with galvanized, contact of lead or copper with Galvalume steel must be avoided, as it can result in accelerated corrosion.

Galvalume and galvanized can be combined on the same building project, although it is not advisable because galvanized will likely exhibit corrosion before Galvalume. As a design practice, when both materials are in contact, always use Galvalume downstream from unpainted galvanized steel, otherwise accelerated corrosion of the galvanized can occur.

REVIEWED clean, dry gloves.

Handling and Storage

To

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steel in all finishes must be kept dry in transit. After transit, material should then be covered and stored off the ground. at a slight angle, to prevent water or condensation from being trapped between adjacent sheet surfaces.

If the bundles become wet, sheets should be separated, wiped with a clean cloth without delay and then placed so that air circulation completes the drying process. These procedures are recommended to avoid possible deterioration of the coating, which could result in non-uniform appearance.

Joining and Sealing

Recommended fasteners to be used on Galvalume steel sheet should have washers made of Neoprene or a similar material. (See table below) Fasteners containing lead or copper should not be used. Lead By Chris Berger at 10:50 am, Jun 06, 2024 ead washers should also

Ivalume.

As with galvanized or painted st sealing, neutral cure silicone sealants proc APPROVED uld be used. Sealants containing acetic she **Montgomery County Historic Preservation Commission** UME h. MAN 1. ss steel 1. 300 Series stainless steel ped or 300 Series cappedsher stainless steel washer 2 combination or capped head used 2. Aluminum-zinc alloy cast 2. Aluminum-zinc alloy cast with neoprene-coated or capped head used or capped head used with aluminum or Type 303 with neoprene-coated neoprene-coated aluminum stainless washer aluminum or Type 303 or Type 303 stainless 3. Nylon capped head over stainless washer washer zinc coated carbon steel 3. Nylon capped head over 3. Nylon capped head over shank zinc coated carbon steel zinc coated carbon steel 4. 1.0 mil zinc coated steel, shank shank with additional organic or 4. 1.6 mil zinc coated steel. 4. 1.6 mil zinc coated steel, inorganic coating with additional organic or with additional organic or inorganic coating inorganic coating

acid or amines should not be used on Galvalume steel. Check with your sealant supplier for brand name recommendations.

Product Availability

Sizes Available

Thickness: 0.012" (0.30mm) to 0.090" (2.28mm) Width: 49.5" (1257mm) maximum

Qualities

ASTM A792/792M Commercial Steel Structural Steel Special Forming Steel Helical Steel

Standard Coating Weights (Minimum Triple Spot)

AZ30, AZ50, AZ55, AZ60, & AZ 70 (0.30, 0.50, 0.55, 0.60, & 0.70 oz/ft2 respectively)

AZM100, AZM150, AZM165, AZM180, & AZM210 (100, 150, 165, 180, & 210 g/ m² respectively)

Galvalume sheet steel can also be ordered as a prepainted coil. Prepainted Galvalume offers an additional layer of paint protection in a wide assortment of attractive colours and paint systems. See our Fact Sheet on Prepainted Galvalume steel for more information.

Special Customer Note:

The Information in this Fact Sheet is provided for the general guidance of customers and does not imply any warranty. Information provided is based on research conducted by Arcelor Mittal and other organizations. Interpretation and/or use of this information is the sole responsibility of the user.

TM - ArcelorMittal (Logo/Slogan) is a trademark of Arcelor Mittal.

TM - Solutions in Steel Is a trademark of ArcelorMittal Dofasco.

TM - Galvalume is a trademark of Arcelor Mittal in Canada, and a trademark of BIEC International Inc. in the United States.

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ArcelorMittal USA 1 South Dearborn St. Chicago, IL 60603

1-800-422-9422 e constructioninguiries@arcelormittal.ca



www.arcelormittal.com

KYNAR 500[®] OR HYLAR 5000[™] COLORS & NATURAL METAL FINISHES

All Berridge-applied colors are premium fluoropolymer coatings produced with full strength Kynar 500® or Hylar 5000™ resin. Kynar 500® or Hylar 5000™ affords maximum exterior durability due to its outstanding resistance to ultraviolet radiation. Full-strength Kynar 500® or Hylar 5000™ color finishes carry a 20-year warranty against cracking, peeling and fading (not to exceed 5 N.B.S. units). These are the highest quality exterior finishes available!

BERRIDGE METALLIC FINISHES*

Metallic colors are processed and finished on Berridge's continuous coil-coating line. These proprietary finishes are available for all factory products, flat sheet, and coil. Flat sheets and coils in metallic finishes are available to sheet metal companies for fabrication of special profiles, shapes or flashing. Berridge Metallic Finishes include:

COPPER-COTE™ ANTIQUE COPPER-COTE CHAMPAGNE ZINC-COTE™ LEAD-COTE™ PREWEATHERED GALVALUME®

REVIEWED By Chris Berger at 10:50 am, Jun 06, 2024

n colors which require a nominal surchard

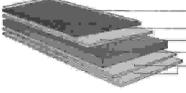


duct that combines ith a clear, acrylic surface treatment ristics to enhance eel sheet. These d for oils, excellent amatic decrease in n surface brightness ill by roll-coating a irfaces of the sheet.



Berridge owns and operates its own modern continuous coil coating line in San Antonio, Texas, painting both 48" and 42" wide Galvalume® master coils.

COATING SYSTEM



Protective Strippable Film (painted material only)

- 0.75 ± 0.05 mil Kynar500[®] Hylar5000™ top coat
- 0.20 ± 0.05 mil primer coat
- 24 gauge or 22 gauge Galvalume substrate

0.35 ± 0.05 mil total dry film thickness for primer coat (non-metallics only) & beige urethane backer coat (all colors)

Notes:

- 1. Special colors and finishes are available. Please consult Berridge for pricing and delivery.
- 2. Berridge metallic finishes are premium finishes and require a nominal surcharge.
- 3. Galvalume® is a registered trademark of BIEC International, Inc.
- Kynar 500[®] is a registered trademark of Arkema, Inc.
- Hylar 5000[™] is a registered trademark of Solvay Solexis.

GE & 22-GAUGE* BERRIDGE PRODUCTS IN GALVALUME®

SHEET METAL MATERIAL

- A. Prefinished metal shall be Aluminum-Zinc Alloy Coated (AZ-50 Galvalume®) Steel Sheet, 24-Gauge or 22-Gauge*, ASTM 792-08, Grade 40, vield strength 40 ksi min.
- B. Finish shall be full strength Kynar 500[®] or Hylar 5000™ fluoropolymer coating applied by the manufacturer on a continuous coil coating line, with a top side dry film thickness of 0.75 ± 0.05 mil over 0.20 ± 0.05 mil orime coat, to provide a total top side dry film thickness of 0.95 ± 0.10 mil. Bottom side shall be coated with a primer and beige urethane coating with a total dry film thickness of 0.35 ± 0.05 mil. Finish shall conform to all tests for adhesion, flexibility, and longevity as specified by the Kynar 500® or Hylar 5000™ finish supplier,
- C. Strippable film shall be applied to the top side of all prefinished metal to protect the finish during fabrication, shipping and field handling. This strippable film MUST be removed immediately before installation.
- D. Unpainted metal shall be Aluminum-Zinc Alloy Coated (AZ-55 Acrylic Coated Galvalume®) Steel Sheet, 24-Gauge or 22-Gauge*, ASTM 792-08, Grade 40, yield strength 40 ksi min., with clear acrylic coating on both sides of material.

- E. Field protection must be provided by the contractor at the job site so stacked or coiled material is not exposed to weather and moisture.
- F. Flashing maybe factory fabricated or field fabricated. Unless otherwise specified all exposed adjacent flashing shall be of the same material and finish as panel system.

Note: The rolling process of sheet metal results in inherent surface unevenness. referred to as "oil-canning." This condition is also caused by several factors including thermal expansion and contraction, dark colors, both medium and high-gloss finishes, and uneven substrate. "Oil-canning" in itself is not sufficient cause for material rejection.

*Not all products and colors are available in 22-Gauge.

For complete specifications visit www.berridge.com

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BERRIDGE MANUFACTURING COMPANY KYNAR 500® HYLAR 5000™ COLOR FINISHES

(800) 669-0009 www.berridge.com

STANDARD COLORS Due to limitations in the printing process, please request actual color chips for accurate color viewing. ALMOND BUCKSKIN PARCHMENT SHASTA WHITE FOREST GREEN PATINA GREEN SIERRA TAN AGED BRONZE **REVIEWED** By Chris Berger at 10:50 am, Jun 06, 2024 EMLOCK GREEN TERRA-COTTA BRISTOL BLUE **APPROVED** Montgomery County **Historic Preservation Commission** COLONIAL RED ROYAL BLUE HARTFORD GREEN MELL BURGUNDY DEEP RED COPPER BROWN MATTE BLACK TEAL GREEN METALLIC COLORS PREMIUM COLORS Berridge metallic colors are premium finishes which require a nominal surcharge. Due to limitations in the printing process, please request actual color chips for accurate color viewing. Berridge premium colors require a nominal surcharge. ANTIQUE NATURAL WHITE AWARD BLUE CHAMPAGNE COPPER-COTE™ COPPER-COTE NATURAL METAL FINISH Berridge Acrylic-Coated Galvalume® is a coated sheet product that combines the corrosion resistance of GALVALUME® steel sheet with a clear, organic resin applied to the top side and bottom side of LEAD-COTE™ PREWEATHERED ACRYLIC-COATED ZINC-COTE™ GALVALUME® substrate. **GALVALUME® GALVALUME®**

All colors except Award Blue comply with LEED® v3 & Energy Star requirements for roof slopes greater than 2:12. Almond complies with LEED® v3 requirements for low slopes. Natural White complies with LEED® v3 & Energy Star requirements for low slopes.



KYNAR 500° HYLAR 5000™ SPECIFICATIONS FOR GALVANIZED AND GALVALUME® COIL COATING APPLICATIONS:

TESTED PROPERTY	TESTING METHO	D	KYNAR 500 [®] or HYLAR 5000™
Colors Available			See color chart on reverse side
Specular Gloss	ASTM D-523-80		Low and medium gloss only
Color Uniformity	ASTM D-2244-79		Color controlled both instrumentally and visually
Dry Film Thickness	ASTM D-1400-81, AS	STM D-1005-84, NCCA 11-13, 11-14, 11-15	Primer 0.25 \pm 0.05 mil, Topcoat 0.8 \pm 0.05 mil
Hardness	ASTM D-3363-89, NO	CCA 11-12, Eagle Turquoise Pencils	H.B. Minimum
Adhesion (X-Cut)	ASTM D-3359-90		No adhesion loss
Adhesion (Crosshatch)	ASTM D-3359-90		No adhesion loss
Direct Impact Flexibility	ASTM D-2794-84, Ga	ardner Impact Tester, 1/10" Distortion	Excellent, no removal
REVIEWED	NCCA Spec. 11, AST Impact force in inch p	M D-2794-84, Gardner Impact Tester, 5/8" ball ounds equal to me <mark>r</mark> al thickness	Excellent, no cracking or loss of adhesion
By Chris Berger a	t 10:50 am, Ju	n 06, 2024 ^{drei}	No cracks or loss of adhesion
Salt Sprav Resistance	ASTM B-117-73 (199)	2)	Passes 1000 hrs on H.D.G. Steel 1000 hrs on Galvalume®
Hu APPRO		· · · · · · · · · · · · · · · · · · ·	Passes 2000 hrs on H.D.G. Steel 2000 hrs on Galvalume®
Aci Historic Preservatio		7), Proc. 3.1.1 test, 24 hr exposure	Excellent, no effect
Alk	~	1), Proc. 5.2	Excellent, no effect
Abr MMELL	ATTIO		100 liters/mil topcoat
Dei / WWWP U.	./ / / //////	mmersion in 3% solution at 100°F	Excellent, no effect
Resistance to Acid Pollutants	24 hr exposure 10% h	RD (RD, S 197)	Excellent, no effect
Weathering - Color Retention	ASTM D-2244-89, 20	yrs, 45° South Florida	Maximum 5 NBS units color change
Weathering - Chalk Resistance	ASTM D-659-86, 20 y	rs, 45º South Florida	Rating of 8 minimum
Erosian	20 yrs, 45° South Flor	ida	Maximum 15% loss
Notes:			

Notes:

1. ASTM - American Society for Testing Materials

2. NCCA - National Coil Coaters Association

3. Galvalume® is Aluminum-Zinc alloy coated sheet steel and is a registered trademark of BIEC International, Inc.

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BERRIDGE MANUFACTURING COMPANY

Roofs of Distinction

www.berridge.com

*Berridge California Sales Corporation is a separate entity from Berridge Manufacturing Company March 2011 Berridge Color Chart - 30M Printed in the U.S.A.