ISSUE: Certificate of Appropriateness for alterations (after-the-fact)

APPLICANT: David Albright and Ulrike Weinrich

LOCATION: Old and Historic Alexandria District
435 South Lee Street

ZONE: RM / Townhouse Zone

STAFF RECOMMENDATION

Staff recommends approval of the Certificate of Appropriateness, as submitted.

GENERAL NOTES TO THE APPLICANT

1. APPEAL OF DECISION: In accordance with the Zoning Ordinance, if the Board of Architectural Review denies or approves an application in whole or in part, the applicant or opponent may appeal the Board's decision to City Council on or before 14 days after the decision of the Board.

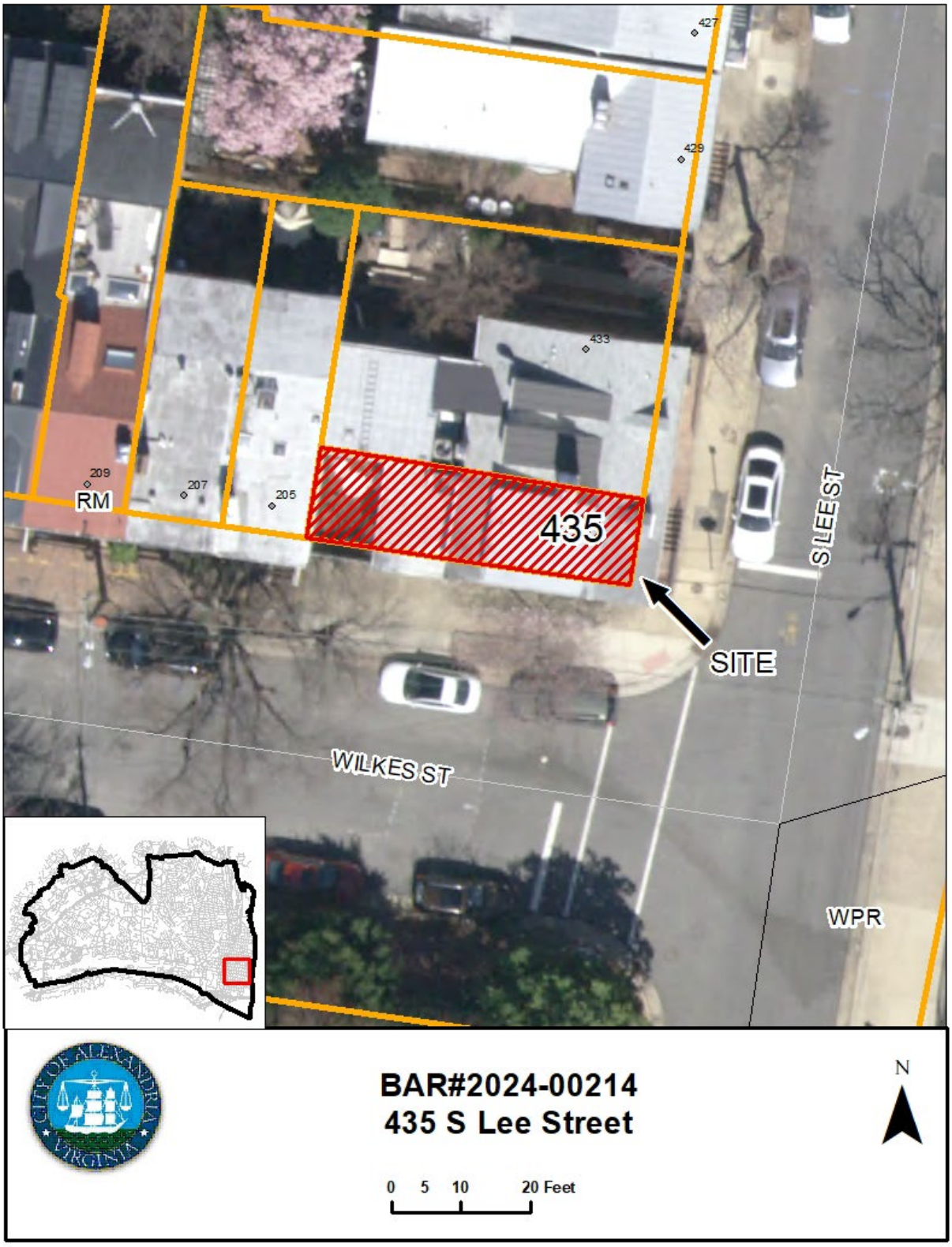
2. COMPLIANCE WITH BAR POLICIES: All materials must comply with the BAR's adopted policies unless otherwise specifically approved.

3. BUILDING PERMITS: Most projects approved by the Board of Architectural Review require the issuance of one or more construction permits by Department of Code Administration (including signs). The applicant is responsible for obtaining all necessary construction permits after receiving Board of Architectural Review approval. Contact Code Administration, 703-746-4200 for further information.

4. ISSUANCE OF CERTIFICATES OF APPROPRIATENESS AND PERMITS TO DEMOLISH: Applicants must obtain a copy of the Certificate of Appropriateness or Permit to Demolish PRIOR to applying for a building permit. Contact BAR Staff, Room 2100, City Hall, 703-746-3833, or preservation@alexandriava.gov for further information.

5. EXPIRATION OF APPROVALS NOTE: In accordance with Sections 10-106(B), 10-206(B) and 10-307 of the Zoning Ordinance, any Board of Architectural Review approval will expire 12 months from the date of issuance if the work is not commenced and diligently and substantially pursued by the end of that 12-month period.

6. HISTORIC PROPERTY TAX CREDITS: Applicants performing extensive, certified rehabilitations of historic properties may separately be eligible for state and/or federal tax credits. Consult with the Virginia Department of Historic Resources (VDHR) prior to initiating any work to determine whether the proposed project may qualify for such credits.


427
429
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BAR#2024-00214
435 S Lee Street
N
0 5 10 20 Feet

I. APPLICANT'S PROPOSAL

The applicant requests an after-the-fact Certificate of Appropriateness to replace the composition shingle roof at 435 South Lee Street with a standing seam metal roof. Staff received an administrative approval application to replace the roof on March 12, 2024. Upon doing a site visit to check the visibility of the roof, staff discovered that the roof had already been replaced. After determining that the alteration could not be approved administratively, staff sent a letter to the property owner informing them of the zoning violation (ZEN2024-00090) and requirement to apply for a full hearing at the BAR.

Site context

The subject property is located on the corner of South Lee Street and Wilkes Street. The front (east-facing) gabled roof is visible from South Lee Street. The rear (west-facing) gabled roof is visible from Wilkes Street. There is also a section of flat roof on the one-story addition that is not visible from any public right-of-way.

II. HISTORY

435 South Lee Street (formerly Water Street) is a two-and-a-half story, two-bay Georgian-style masonry townhouse with a wooden façade and a one-story wood-frame addition. It was first constructed as a pair with 433 South Lee Street. According to Ethelyn Cox's *Historic Alexandria Virginia Street by Street*, the townhouses likely date to ca. the **mid-18th century**. A land and personal property assessment document suggests that William Wright was paying ground rent on a property on Wilkes Street in 1788. According to a report by the Historic Alexandria Foundation, extensive historical research was conducted on this structure by Ruth Lincoln Kaye. The report includes the following historic description:

> *"Jacob Cox sold the lot containing this house to William Wright in December 1792. By 1795, Wright had built two houses on this lot, including one on the corner of Wilkes St. and Water St. As far as she [Kaye]could determine, the corner house is the current one at 435 S. Lee St…Peter Smith visited this property in late August 1996 and saw hand-sawn timbers in the rafters…He stated that the hand cutting of timbers stopped in this area by about 1805."*

Tax records also indicate that until around 1850, the houses at 433 and 435 South Lee Street were owned by the same owner and were primarily used as separate residences, but on at least two occasions were connected into one large residence. A one-story addition to the original structure was added around 1930, according to building permit records. An architectural survey from 1986 lists the roof type as asphalt shingle. Staff were able to locate building permit #02139 for 433-435 South Lee Street from November 1, 1988 for a re-roofing with asphalt shingles. However, staff was not able to locate a corresponding BAR approval for either of these roofing alterations. Tax records show that the last time the two properties were under a single owner was in 1991, at which point they were sold to two different owners.

Previous BAR Approvals

BAR #96-00211 Waiver of rooftop HVAC screening

III. ANALYSIS

The applicant requests an after-the-fact Certificate of Appropriateness to replace the composition shingle roof with a standing seam metal roof. The new roof material is Everlast Metals galvanized steel (Figure 1). According to the *BAR Policies for Administrative Approval*, "for buildings with historic roofs beyond repair or those with previously replaced roofs, replacement materials should match the original in design, color, texture, and other visual qualities…Where the original roof material is missing and cannot be determined from documentary, physical, or pictorial evidence, roofing historically appropriate to the age of the structure must be utilized."

Figure 1. 435 South Lee Street with new standing seam metal roof, east elevation (left) and west elevation (right).

Staff conducted extensive historical research on the history of the structure. Sanborn maps suggest that the original roofing material (for the original massing) was wood shingle. There is no evidence of the roof being replaced again until 1988, when a permit was issued to replace an existing composition shingle roof with a new composition shingle roof. To comply with the *BAR Policies for Administrative Approval*, the most appropriate roofing material for this structure would be a wood shingle roof, and a standing seam metal roof cannot be approved administratively. However, staff believes that the current replacement is appropriate for two reasons. First, standing seam

metal is an upgrade from composition shingles, which are a highly inappropriate material for a structure dating from the 18th Century. Second, several other Georgian style structures on the 400 block of South Lee Street have had original roofs replaced with standing seam metal at some point in time (Figure 2).

Figure 2. 429 South Lee Street, one example of an 18th Century building on the block that now has a standing seam metal roof.

Staff does not believe that the new standing seam metal roof detracts from the historic integrity of the structure. While it was not the original roofing material, it is a significant upgrade from the historically inappropriate composition shingles, and it is in character with the surrounding blockface. Therefore, staff recommends approval of the project as submitted.

STAFF
Brendan Harris, Historic Preservation Planner, Planning & Zoning
Tony LaColla, AICP, Land Use Services Division Chief, Planning & Zoning

CITY DEPARTMENT COMMENTS
Legend: C- code requirement R- recommendation S- suggestion F- finding

Zoning
C-1 Proposed roof replacement will comply with zoning.

C-2 Proposed roof replacement will not be permitted to increase the height of the building.

Code Administration
No comment (sic)

Transportation and Environmental Services
CONDITIONS

R1. The building permit must be approved and issued prior to the issuance of any permit for demolition, if a separate demolition permit is required. (T&ES)

R2. Applicant shall be responsible for repairs to the adjacent city right-of-way if damaged during construction activity. (T&ES)

R3. No permanent structure may be constructed over any existing private and/or public utility easements. It is the responsibility of the applicant to identify any and all existing easements on the plan. (T&ES)

FINDINGS:

After review of the information provided, an approved grading plan is not required at this time. Please note that if any changes are made to the plan it is suggested that T&ES be included in the review. (T&ES)

CODE REQUIREMENTS

C1. The applicant shall comply with the City of Alexandria's Solid Waste Control, Title 5, Chapter 1, which sets forth the requirements for the recycling of materials (Sec. 5-1-99). (T&ES)

C2. The applicant shall comply with the City of Alexandria's Noise Control Code, Title 11, Chapter 5, which sets the maximum permissible noise level as measured at the property line. (T&ES)

C3. Roof, surface and sub-surface drains be connected to the public storm sewer system, if available, by continuous underground pipe. Where storm sewer is not available applicant must provide a design to mitigate impact of stormwater drainage onto adjacent properties and to the satisfaction of the Director of Transportation & Environmental Services. (Sec.5-6-224) (T&ES)

C4. All secondary utilities serving this site shall be placed underground. (Sec. 5-3-3) (T&ES)

C5. Any work within the right-of-way requires a separate permit from T&ES. (Sec. 5-2) (T&ES)

C6. All improvements to the city right-of-way such as curbing, sidewalk, driveway aprons, etc. must be city standard design. (Sec. 5-2-1) (T&ES)

Alexandria Archaeology
No archaeology comments.

V. ATTACHMENTS

1 – Application Materials

- Completed application
- Plans
- Material specifications
- Photographs

2 – Supplemental Materials

- Public comment, if applicable
- Any other supporting documentation

BAR CASE# _____
(OFFICE USE ONLY)

ADDRESS OF PROJECT: 435 South Lee St

DISTRICT: ■ **Old & Historic Alexandria** ☐ **Parker – Gray** ☐ **100 Year Old Building**

TAX MAP AND PARCEL: 075.03-07-27 **ZONING:** RM

APPLICATION FOR: *(Please check all that apply)*

■ CERTIFICATE OF APPROPRIATENESS

☐ PERMIT TO MOVE, REMOVE, ENCAPSULATE OR DEMOLISH
(Required if more than 25 square feet of a structure is to be demolished/impacted)

☐ WAIVER OF VISION CLEARANCE REQUIREMENT and/or YARD REQUIREMENTS IN A VISION CLEARANCE AREA (Section 7-802, Alexandria 1992 Zoning Ordinance)

☐ WAIVER OF ROOFTOP HVAC SCREENING REQUIREMENT
(Section 6-403(B)(3), Alexandria 1992 Zoning Ordinance)

Applicant: ■ Property Owner ☐ Business *(Please provide business name & contact person)*

Name: David Albright and Ulrike Weinrich

Address: 435 South Lee St

City: Alexandria State: VA Zip: 22314

Phone: 703 472-0799 E-mail : albright@isis-online.org

Authorized Agent *(if applicable)*: ☐ Attorney ☐ Architect ☐ _____

Name: _____ Phone: _____

E-mail: _____

Legal Property Owner:

Name: David Albright and Ulrike Weinrich

Address: 435 South Lee St

City: Alexandria State: VA Zip: 22314

Phone: 703472-0799 E-mail: albright@isis-online.org

BAR CASE# _____
(OFFICE USE ONLY)

NATURE OF PROPOSED WORK: *Please check all that apply*

- ☐ NEW CONSTRUCTION
- ☐ EXTERIOR ALTERATION: *Please check all that apply.*
  - ☐ awning
  - ☐ doors
  - ☐ lighting
  - ☐ fence, gate or garden wall
  - ☐ windows
  - ☐ pergola/trellis
  - ☐ HVAC equipment
  - ☐ siding
  - ☐ painting unpainted masonry
  - ☐ shutters
  - ☐ shed
  - ☐ other roof replacement
- ☐ ADDITION
- ☐ DEMOLITION/ENCAPSULATION
- ☐ SIGNAGE

DESCRIPTION OF PROPOSED WORK: *Please describe the proposed work in detail (Additional pages may be attached).*

roof replacement

SUBMITTAL REQUIREMENTS:

☐ Check this box if there is a homeowner's association for this property. If so, you must attach a copy of the letter approving the project.

Items listed below comprise the **minimum supporting materials** for BAR applications. Staff may request additional information during application review. Please refer to the relevant section of the *Design Guidelines* for further information on appropriate treatments.

Applicants must use the checklist below to ensure the application is complete. Include all information and material that are necessary to thoroughly describe the project. Incomplete applications will delay the docketing of the application for review. Pre-application meetings are required for all proposed additions. All applicants are encouraged to meet with staff prior to submission of a completed application.

Demolition/Encapsulation : *All applicants requesting 25 square feet or more of demolition/encapsulation must complete this section. Check N/A if an item in this section does not apply to your project.*

	N/A	
☐	■	Survey plat showing the extent of the proposed demolition/encapsulation.
☐	■	Existing elevation drawings clearly showing all elements proposed for demolition/encapsulation.
☐	■	Clear and labeled photographs of all elevations of the building if the entire structure is proposed to be demolished.
☐	■	Description of the reason for demolition/encapsulation.
☐	■	Description of the alternatives to demolition/encapsulation and why such alternatives are not considered feasible.

BAR CASE# _____
(OFFICE USE ONLY)

Additions & New Construction: *Drawings must be to scale and should not exceed 11" x 17" unless approved by staff. Check N/A if an item in this section does not apply to your project.*

N/A
- ☐ ■ Scaled survey plat showing dimensions of lot and location of existing building and other structures on the lot, location of proposed structure or addition, dimensions of existing structure(s), proposed addition or new construction, and all exterior, ground and roof mounted equipment.
- ☐ ■ FAR & Open Space calculation form.
- ☐ ■ Clear and labeled photographs of the site, surrounding properties and existing structures, if applicable.
- ☐ ■ Existing elevations must be scaled and include dimensions.
- ☐ ■ Proposed elevations must be scaled and include dimensions. Include the relationship to adjacent structures in plan and elevations.
- ☐ ■ Materials and colors to be used must be specified and delineated on the drawings. Actual samples may be provided or required.
- ☐ ■ Manufacturer's specifications for materials to include, but not limited to: roofing, siding, windows, doors, lighting, fencing, HVAC equipment and walls.
- ☐ ■ For development site plan projects, a model showing mass relationships to adjacent properties and structures.

Signs & Awnings: *One sign per building under one square foot does not require BAR approval unless illuminated. All other signs including window signs require BAR approval. Check N/A if an item in this section does not apply to your project.*

N/A
- ☐ ■ Linear feet of building: Front:_____Secondary front (if corner lot):_____.
- ☐ ■ Square feet of existing signs to remain:_____.
- ☐ ■ Photograph of building showing existing conditions.
- ☐ ■ Dimensioned drawings of proposed sign identifying materials, color, lettering style and text.
- ☐ ■ Location of sign (show exact location on building including the height above sidewalk).
- ☐ ■ Means of attachment (drawing or manufacturer's cut sheet of bracket if applicable).
- ☐ ■ Description of lighting (if applicable). Include manufacturer's cut sheet for any new lighting fixtures and information detailing how it will be attached to the building's facade.

Alterations: *Check N/A if an item in this section does not apply to your project.*

N/A
- ☐ ■ Clear and labeled photographs of the site, especially the area being impacted by the alterations, all sides of the building and any pertinent details.
- ☐ ■ Manufacturer's specifications for materials to include, but not limited to: roofing, siding, windows, doors, lighting, fencing, HVAC equipment and walls.
- ☐ ■ Drawings accurately representing the changes to the proposed structure, including materials and overall dimensions. Drawings must be to scale.
- ☐ ■ An official survey plat showing the proposed locations of HVAC units, fences, and sheds.
- ☐ ■ Historic elevations or photographs should accompany any request to return a structure to an earlier appearance.

BAR CASE# _____

(OFFICE USE ONLY)

ALL APPLICATIONS: *Please read and check that you have read and understand the following items:*

☒ I understand that after reviewing the proposed alterations, BAR staff will invoice the appropriate filing fee in APEX. The application will not be processed until the fee is paid online.

☒ I understand the notice requirements and will return a copy of the three respective notice forms to BAR staff at least five days prior to the hearing. If I am unsure to whom I should send notice I will contact Planning and Zoning staff for assistance in identifying adjacent parcels.

☒ I, the applicant, or an authorized representative will be present at the public hearing.

☒ I understand that any revisions to this initial application submission (including applications deferred for restudy) must be accompanied by the BAR Supplemental form and revised materials.

The undersigned hereby attests that all of the information herein provided including the site plan, building elevations, prospective drawings of the project, and written descriptive information are true, correct and accurate. The undersigned further understands that, should such information be found incorrect, any action taken by the Board based on such information may be invalidated. The undersigned also hereby grants the City of Alexandria permission to post placard notice as required by Article XI, Division A, Section 11-301(B) of the 1992 Alexandria City Zoning Ordinance, on the property which is the subject of this application. The undersigned also hereby authorizes the City staff and members of the BAR to inspect this site as necessary in the course of research and evaluating the application. The applicant, if other than the property owner, also attests that he/she has obtained permission from the property owner to make this application.

APPLICANT OR AUTHORIZED AGENT:

Signature: _____

Printed Name: David Albright

Date: May 28, 2024

OWNERSHIP AND DISCLOSURE STATEMENT
Use additional sheets if necessary

1. Applicant. State the name, address and percent of ownership of any person or entity owning an interest in the applicant, unless the entity is a corporation or partnership, in which case identify each owner of more than three percent. The term ownership interest shall include any legal or equitable interest held at the time of the application in the real property which is the subject of the application.

Name	Address	Percent of Ownership
1. David Albright	435 S. Lee St	50
2. Ulrike Weinrich	435 S Lee St	50
3.		

2. Property. State the name, address and percent of ownership of any person or entity owning an interest in the property located at 435 S. Lee ST (address), unless the entity is a corporation or partnership, in which case identify each owner of more than three percent. The term ownership interest shall include any legal or equitable interest held at the time of the application in the real property which is the subject of the application.

Name	Address	Percent of Ownership
1. David Albright	same	50
2. Ulrike Weinrich		50
3.		

3. Business or Financial Relationships. Each person or entity listed above (1 and 2), with an ownership interest in the applicant or in the subject property is required to disclose **any** business or financial relationship, as defined by Section 11-350 of the Zoning Ordinance, existing at the time of this application, or within the12-month period prior to the submission of this application with any member of the Alexandria City Council, Planning Commission, Board of Zoning Appeals or either Boards of Architectural Review.

Name of person or entity	Relationship as defined by Section 11-350 of the Zoning Ordinance	Member of the Approving Body (i.e. City Council, Planning Commission, etc.)
1.	none	no
2.	none	no
3.		

NOTE: Business or financial relationships of the type described in Sec. 11-350 that arise after the filing of this application and before each public hearing must be disclosed prior to the public hearings.

As the applicant or the applicant's authorized agent, I hereby attest to the best of my ability that the information provided above is true and correct.

5/28/2024 David Albright David Albright
Date Printed Name Signature

Everlast Metals

Architectural Flat Sheet & Coil

Technical Information Sheet

Description:

EVERLAST METALS offers PVDF Coated Aluminum and Galvanized/Galvalume® Steel Substrates as Architectural Flat Sheet & Coil Stock. The premium paint system combines a minimum of 70% Fluropon® polyvinylidene fluoride (PVDF) resin and is applied at a minimum total dry film thickness of 1.0 mil (+/- 0.1). For additional protection, the reverse side is coated with a polyester wash coat at 0.3-0.4 mil dry film thickness. EVERLAST METALS Architectural Flat Sheet and Coil Stock conforms to Premium materials criteria, as set forth within the Metal Construction Association's materials certification program.

Aluminum - conforms to ASTM B209 standards, with H22 temper.

Galvanized/Galvalume® Steel - conforms to ASTM A755 standards, further defined as follows: ASTM A653 Grade 50 structural steel with G90 HDG Coating, or ASTM A792 Grade 50 structural steel AZ50 coating. An optional strippable film can be applied for additional protection during handling, fabrication and installation. Avoid exposure to extreme heat an long periods of direct sunlight, as this can render the film difficult to remove. This strippable film must be removed immediately after installation.

General Use & Method of Application:

EVERLAST METALS Architectural Flat Sheet and Coil Stock is intended for general sheet metal use in building applications including but not limited to fascia, soffits, gravel stops, copings, store fronts and metal roofing.

- Install in accordance with industry-recognized sheet metal practices.
- Cut, form, and fasten using conventional hand or power tools.
- For best results cutting tool edges should be kept sharp, clean, properly dressed, and closely aligned.
- Fabrication and erection can be accomplished with strippable plastic film in place. Film should be removed from areas of concealed or joined pieces.

Storage:

- Everlast Metals metal sheet and coil should be stored in a well ventilated, dry place where no moisture can contact them. Moisture (from rain, snow, condensation, etc.) trapped between layers of material may cause water stains or white rust, which can affect the service life of the material and will detract from its appearance.
- If outdoor storage cannot be avoided, protect the sheet and coil with a ventilated canvas or waterproof paper cover. Do not use plastic, which can cause condensation. Keep the material off the ground in an inclined position with an insulator such as wood.
- Maximum 3,000 lb of sheets per pallet.

Precautions:

- Protective film may degrade or become brittle with exposure to direct sunlight. Therefore, it must be removed immediately.
- Product should not be used in areas of high abrasion or where it is subject to mechanical damage.
- Product is pre-finished material; care must be exercised during fabrication and erection to avoid surface damage.
- Everlast Metals recommends a minimum bend radius of 2T for .032 and .040 materials and a 3T bend radius for any material .050 or greater. Anything less than these minimum bend radii can cause crazing to the material.
- Attention should be paid to good house-keeping practices.
- Avoid dragging sheets over surfaces which may scratch or mar the finish.
- For general sheet metal use in building applications.
- Do not cut with power saws or abrasive blades.

Compliance:

3105 Alloy:	
Post Industrial Recycled Contact:	51.1%
Post Consumer Recycled Contact:	0.4%
Fluropon®:	AAMA 620-02

Product Data:

Color:	26 Standard Colors; See Current Everlast Metals color chart	
Finish:	Low to Medium Gloss	
Wash Coat:	Polyester	
Weight:	lb/Ft2:	kg/M2:
.032	0.456	2.20
.040	0.576	2.75
.050	0.720	3.50
Dimensions:	Slit Coil:	Sheet: 48”
.032	4.0” (0.1 m) – 48” (1.2 m)*	(1.2 m) x 96” (2.4 m), 120” (3.1 m) & 144” (3.7 m)*
.040	4.0” (0.1 m) – 48” (1.2 m)*	(1.2 m) x 96” (2.4 m), 120” (3.1 m) & 144” (3.7 m)*
.050	4.0” (0.1 m) – 48” (1.2 m)*	(1.2 m) x 96” (2.4 m), 120” (3.1 m) & 144” (3.7 m)*

Physical Properties of Fluoropolymer Coating:

	ASTM Standard	Value
Abrasion Resistance:	ASTM D 968, Method A	Coefficient of sand abrasion 65±10 Liters
Accelerated Weathering:	ASTM D 4587 Condition B or ASTM G 23 Method 1 or 2, type EH apparatus Hours: 5000	Chalk: Rating of 8 or better per ASTM D 4214 Color: ≤2ΔE color change per ASTM D 2244
	ASTM D 4587 Condition B or ASTM G 53, Method 1 or 2, type EH apparatus or ASTM G154 Hours: 5000	Chalk: Rating of 8 or better per ASTM D 4214 Color: ≤2ΔE color change per ASTM D 2244
	ASTM D 4587 Condition B or ASTM G 23 Method 1 or 2, type EH apparatus or ASTM G151 Hours: 2000	Chalk: Rating of 8 or better per ASTM D 4214 Color: ≤2ΔE color change per ASTM D 2244
	ASTM D 3361 Hours: 1000	Acceptable – No cracking, peeling, blistering, loss of adhesion of the protective coating, or corrosion of the base metal Chalk: Rating of 8 or better per ASTM D 4214, Method A (ASTM D 659) Color: <5ΔE Hunter Units per ASTM D 2244
Adhesion:	ASTM D 3359, Method B	No loss of adhesion
Chalk Resistance:	ASTM D 659	No Chalk; Rating 9-10
Chemical/Acid Pollution Resistance:	ASTM D 1308, Procedure 7.2	Pass; No color change
Formability:	NCCA 4.2.8	2T to 4T No loss of adhesion
Gloss:	ASTM D 523	25-35 at 60 degrees
Hardness:	ASTM D 3363	HBto2H
Humidity Resistance:	ASTM D 1735 Hours: 2000	No blistering, no loss of adhesion
Impact Resistance:	ASTM D 2794	Reverse Impact: No loss of adhesion
Salt Spray Resistance:	ASTM B 117 Hours: 3000	No creepage from scribe and no field blisters
Tunnel Test:	ASTM E84	Class A Coating
UV Exposure:	ASTM G 154 Hours: 2016	Chalk: Rating of 8 or better per ASTM D 4214, Method A (ASTM D 659) Color: <5ΔE Hunter Units per ASTM D 2244
Wet Adhesion	Water Immersion Hours: 1500	No loss of adhesion

Physical Properties of Base Material:

Standard:	ASTM B209 Aluminum Association Standards for Specification Sheets and Coils
Base Metal:	Aluminum
Coefficient of Thermal Expansion:	12.6 x 10^{-6} in/in/F° (22.2 m/m.K x 10^{-6})
Modulus of Elasticity:	10.0 x 10^{3} x KSI (68.9 MPa)

Galvalume Steel

Compliance:

Galvalume® Steel:
Fluropon®: AAMA 620-02

Product Data:

Color:	26 Standard Colors; See Current Everlast Metals color chart	
Finish:	Low to Medium Gloss	
Wash Coat:	Polyester	
Weight:	lb/Ft2:	kg/M2:
24 Gauge	0.950	4.63
26 Gauge	0.738	3.60
Dimensions:	Slit Coil:	Sheet: 48”
24 Gauge	4.0” (0.1 m) – 48” (1.2 m)*	(1.2 m) x 96” (2.4 m), 120” (3.1 m) & 144” (3.7 m)*
26 Gauge	4.0” (0.1 m) – 48” (1.2 m)*	(1.2 m) x 96” (2.4 m), 120” (3.1 m) & 144” (3.7 m)*

Physical Properties of Fluoropolymer Coating:

	ASTM Standard	Value
Abrasion Resistance:	ASTM D 968, Method A	Coefficient of sand abrasion 65±10 Liters
Accelerated Weathering:	ASTM D 4587 Condition B or ASTM G 23 Method 1 or 2, type EH apparatus Hours: 5000	Chalk: Rating of 8 or better per ASTM D 4214 Color: ≤2ΔE color change per ASTM D 2244
	ASTM D 4587 Condition B or ASTM G 53, Method 1 or 2, type EH apparatus or ASTM G154 Hours: 5000	Chalk: Rating of 8 or better per ASTM D 4214 Color: ≤2ΔE color change per ASTM D 2244
	ASTM D 4587 Condition B or ASTM G 23 Method 1 or 2, type EH apparatus or ASTM G151 Hours: 2000	Chalk: Rating of 8 or better per ASTM D 4214 Color: ≤2ΔE color change per ASTM D 2244
	ASTM D 3361 Hours: 1000	Acceptable – No cracking, peeling, blistering, loss of adhesion of the protective coating, or corrosion of the base metal Chalk: Rating of 8 or better per ASTM D 4214, Method A (ASTM D 659) Color: <5ΔE Hunter Units per ASTM D 2244
Adhesion:	ASTM D 3359, Method B	No loss of adhesion
Chalk Resistance:	ASTM D 659	No Chalk; Rating 9-10
Chemical/Acid Pollution Resistance:	ASTM D 1308, Procedure 7.2	Pass; No color change
Formability:	NCCA 4.2.8	2T to 4T No loss of adhesion
Gloss:	ASTM D 523	25-35 at 60 degrees
Hardness:	ASTM D 3363	HB to 2H
Humidity Resistance:	ASTM D 2247 Hours: 3000	No blistering, no loss of adhesion
Impact Resistance:	ASTM D 2794	Reverse Impact: No loss of adhesion
Salt Spray Resistance:	ASTM B 117 Hours: 2000	No creepage from scribe and no field blisters
Tunnel Test:	ASTM E84	Class A Coating
UV Exposure:	ASTM G 154 Hours: 2016	Chalk: Rating of 8 or better per ASTM D 4214, Method A (ASTM D 659) Color: <5ΔE Hunter Units per ASTM D 2244
Wet Adhesion	Water Immersion Hours: 1500	No loss of adhesion

Physical Properties of Base Material:

Standard:	ASTM A792/A792M - Galvalume® (55% Aluminum and 43+% zinc)
Base Metal:	AZ-50 Galvalume Steel
Coefficient of Themal Expansion:	6.7 x 10^{-6} in/in/F° (13.9 m/m.K x 10^{-6})
Modulus of Elasticity:	29.0 x 10^{6} x KSI (200 GPa)

Galvanized Steel

Compliance:

Galvanized Steel:

Post Industrial Recycled Contact:	7.3%
Post Consumer Recycled Contact:	23.0%
Fluropon®:	AAMA 620-02

Product Data:

Color:	26 Standard Colors; See Current Everlast Metals color chart	
Finish:	Low to Medium Gloss	
Wash Coat:	Polyester	
Weight:	lb/Ft2:	kg/M2:
24 Gauge	0.456	2.20
26 Gauge	0.576	2.75
Dimensions:	Slit Coil:	Sheet: 48”
24 Gauge	4.0” (0.1 m) – 48” (1.2 m)*	(1.2 m) x 96” (2.4 m), 120” (3.1 m) & 144” (3.7 m)*
26 Gauge	4.0” (0.1 m) – 48” (1.2 m)*	(1.2 m) x 96” (2.4 m), 120” (3.1 m) & 144” (3.7 m)*
	4.0” (0.1 m) – 48” (1.2 m)*	(1.2 m) x 96” (2.4 m), 120” (3.1 m) & 144” (3.7 m)*

Physical Properties of Fluoropolymer Coating:

	ASTM Standard	Value
Abrasion Resistance:	ASTM D 968, Method A	Coefficient of sand abrasion 65±10 Liters
Accelerated Weathering:	ASTM D 4587 Condition B or ASTM G 23 Method 1 or 2, type EH apparatus Hours: 5000	Chalk: Rating of 8 or better per ASTM D 4214 Color: ≤2ΔE color change per ASTM D 2244
	ASTM D 4587 Condition B or ASTM G 53, Method 1 or 2, type EH apparatus or ASTM G154 Hours: 5000	Chalk: Rating of 8 or better per ASTM D 4214 Color: ≤2ΔE color change per ASTM D 2244
	ASTM D 4587 Condition B or ASTM G 23 Method 1 or 2, type EH apparatus or ASTM G151 Hours: 2000	Chalk: Rating of 8 or better per ASTM D 4214 Color: ≤2ΔE color change per ASTM D 2244
	ASTM D 3361 Hours: 1000	Acceptable – No cracking, peeling, blistering, loss of adhesion of the protective coating, or corrosion of the base metal Chalk: Rating of 8 or better per ASTM D 4214, Method A (ASTM D 659) Color: <5ΔE Hunter Units per ASTM D 2244
Adhesion:	ASTM D 3359, Method B	No loss of adhesion
Chalk Resistance:	ASTM D 659	No Chalk; Rating 9-10
Chemical/Acid Pollution Resistance:	ASTM D 1308, Procedure 7.2	Pass; No color change
Formability:	NCCA 4.2.8	2T to 4T No loss of adhesion
Gloss:	ASTM D 523	25-35 at 60 degrees
Hardness:	ASTM D 3363	HBto2H
Humidity Resistance:	ASTM D 1735 Hours: 2000	No blistering, no loss of adhesion
Impact Resistance:	ASTM D 2794	Reverse Impact: No loss of adhesion
Salt Spray Resistance:	ASTM B 117 Hours: 3000	No creepage from scribe and no field blisters
Tunnel Test:	ASTM E84	Class A Coating
UV Exposure:	ASTM G 154 Hours: 2016	Chalk: Rating of 8 or better per ASTM D 4214, Method A (ASTM D 659) Color: <5ΔE Hunter Units per ASTM D 2244
Wet Adhesion	Water Immersion Hours: 1500	No loss of adhesion

Physical Properties of Base Material:

Standard:	ASTM A653/A653M-10CS AISI G90 - galvanized steel sheet
Base Metal:	G-90 Galvanized Steel
Coefficient of Thermal Expansion:	6.7 x 10^{-6} in/in/F° (13.9 m/m.K x 10^{6})
Modulus of Elasticity:	29.0 x 10^{6} x KSI (200 GPa)

This sheet is intended to highlight Everlast Metals products and specifications and is subject to change without notice. Everlast Metals takes responsibility for furnishing quality materials which meet published Everlast Metals product specifications. Neither Everlast Metals nor its representatives practice architecture. Everlast Metals offers no opinion on and expressly disclaims any responsibility for the soundness of any structure. Everlast Metals accepts no liability for structural failure or resultant damages. Consult a competent structural engineer prior to installation if the structural soundness or structural ability to properly support a planned installation is in question. No Everlast Metals representative is authorized to vary this disclaimer.

Manufacturing Locations: Lebanon, PA Bridgton, ME Howe, IN Orwell, OH

Everlast Metals

www.everlastmetals.com

Almond

Stone White

Bone White

Sandstone

Sierra Tan

Slate Gray

Cityscape

Dark Gray

Charcoal

Slate Blue

Gallery Blue

Matte Black

Classic Bronze

Dark Bronze

Burnished Slate

Mansard Brown

Patina Green

Forest Green

Hartford Green

Terra Cotta

Burgundy

Colonial Red

♦Regal Red

♦Metallic Silver

♦Premium Colors

♦Metallic Copper

♦Metallic Champagne

PLEASE NOTE: The colors listed on this color chart are as close to the actual painted metal as possible. Actual color swatches are available upon request. Fluropon® pre-finished galvalume steel and aluminum containing Fluropon® 70% PVDF.

Everlast Metals

Toll Free: 1.800.418.5057
Local: 717.389.0234
www.everlastmetals.com

Fluropon® Paint System	Steel		Aluminum		Technical Data							
Standard Finish - 35 Year Warranty	**26 Ga.**	**24 Ga.**	**0.032**	**0.040**	**Energy Star®**	**LEED®**	**Initial TSR**	**Initial TE**	**Initial SRI**	**3 Year TSR**	**3 Year TE**	**3 Year SRI**
Almond	●	●	●		●	●	0.56	0.83	65	0.65	0.83	77
Bone White	●	●	●	●	●	●	0.67	0.87	81	0.64	0.87	77
Burgundy	●	●	●		●		0.26	0.87	25	0.26	0.87	25
Burnished Slate	●	●	●	●	●	●	0.31	0.87	32	0.32	0.87	33
Charcoal	●	●	●	●	●		0.27	0.87	27	0.28	0.87	27
Cityscape	●	●	●	●	●	●	0.38	0.87	42	0.39	0.87	30
Classic Bronze		●	●	●	●		0.11	0.83	41	0.25	0.83	22
Colonial Red	●	●	●	●	●	●	0.29	0.88	30	0.29	0.88	30
Dark Bronze	●	●	●		●	●	0.29	0.88	30	0.30	0.88	30
Dark Gray	●	●	●	●	●	●	0.34	0.88	36	0.34	0.88	36
Forest Green	●	●	●	●	●	●	0.32	0.87	33	0.32	0.87	33
Gallery Blue	●	●	●	●	●	●	0.30	0.87	31	0.30	0.87	31
Hartford Green	●	●	●	●	●	●	0.29	0.88	30	0.29	0.88	30
Mansard Brown	●	●	●	●	●	●	0.28	0.89	29	0.29	0.89	30
Matte Black	●	●	●	●	●		0.26	0.87	25	0.26	0.87	25
Patina Green	●	●	●	●	●	●	0.28	0.89	29	0.28	0.89	29
Sandstone	●	●	●	●	●	●	0.40	0.87	44	0.40	0.87	44
Sierra Tan		●	●	●	●	●	0.54	0.87	63	0.53	0.87	62
Slate Blue	●	●			●	●	0.52	0.87	60	0.51	0.87	59
Slate Gray	●	●	●	●	●	●	0.34	0.88	36	0.34	0.88	36
Stone White		●			●	●	0.43	0.87	48	0.43	0.87	48
Terra Cotta		●			●	●	0.62	0.88	74	0.59	0.88	70
Galvanized G90 Acrylic Coated	●	●										
Galvalume ® AZ55 Acrylic Coated	●	●										
Mill Finish			●	●								
Premium Finish - 35 Year Warranty												
Regal Red	●	●	●		●	●	0.49	0.88	56	0.49	0.88	56
Metallic Champagne		●			●	●	0.41	0.87	46	0.38	0.91	43
Metallic Copper		●	●		●	●	0.37	0.87	41	0.43	0.90	50
Metallic Silver		●	●		●	●	0.54	0.87	64	0.46	0.91	53

Polyester Paint System	Steel		Aluminum	
Standard Finish - 10 Year Warranty	**26 Ga.**	**24 Ga.**	**0.032**	**0.040**
Bronze/White			●	
Medium Bronze/Bronze			●	
Black/White			●	
White/White			●	

- Oil canning is not a cause for rejection.
- Protective film must be removed immediately after installation.
- For a true color representation, please call or write for actual metal sample(s).
- Contact your local sales representative for specific stocking information and special requests.

LEED 2.2 Requirements

Solar Reflectance Index (SRI)

Steep Slope Roofs = ≥ 29

Low Slope Roofs = ≥ 78

ENERGY STAR Requirements

Initial Solar Reflectivity

Steep Slope Roofs (>2:12) ≥ 0.25

Low Slope Roofs (≤ 2:12) ≥ 0.65

3 Year Solar Reflectivity

Steep Slope Roofs (>2:12) ≥ 0.15

Low Slope Roofs (≤ 2:12) ≥ 0.50


435 S Lee St
Metal Rear Roof


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435 S Lee St
Front Shingle Roof
435 S Lee St
Metal Rear Roof


S Lee Street
435 S Lee St
Front Shingle
Roof
435 S Lee St
Metal Rear Roof
S Lee Street


Wilkes
St
435 S Lee St
Rear addition Shingle Roof

Wilkes St
Rear addition Metal Roof
Rear addition Shingle Roof


Rear addition Shingle Roof
435 S Lee St
Rear Addition Metal Roof