CITY OF ST. PETERSBURG, FLORIDA
PLANNING AND DEVELOPMENT SERVICES DEPARTMENT
URBAN PLANNING AND HISTORIC PRESERVATION DIVISION

STAFF REPORT
Community Planning and Preservation Commission
Certificate of Appropriateness Request

For Public Hearing and Executive Action on April 9, 2019 beginning at 2:00 p.m. in Council Chambers, City Hall, 175 Fifth Street North, St. Petersburg, Florida

According to Planning and Development Services Department records, no commissioner resides or has a place of business within 2,000 feet of the subject property. All other possible conflicts should be declared upon the announcement of the item.

Case No.: 19-90200005
Address: 809 Prospect Court South
Legal Description: ROSER PARK 1ST ADD (ROSER PARK HIST DIST) LOT 2 LESS W 4.4FT FOR RD R/W
Parcel ID No.: 30-31-17-76986-000-0020
Date of Construction: Circa 1920
Local Landmark: Roser Park Local Historic District (HPC 87-01) – Contributing Property
Owner: Stephanie M. Smart
Request: Request for the approval of a Certificate of Appropriateness for the alteration of a local historic landmark

Historical Context and Significance
The Craftsman-style single family residence at 809 Prospect Court South¹ was constructed circa 1920 and designated as a contributing property to both the Roser Park Local Historic District (HPC 87-01) and the Roser Park National Register Historic District. Because of its location within the Roser Park Local Historic District, a Certificate of Appropriateness (COA) is required for exterior alteration. Per the City’s COA Matrix, roofing projects that involve a change in materials require review by the Community Planning and Preservation Commission (CPPC).

Project Description and Review

Project Description
The COA application (Appendix A) proposes the removal of existing shingle roof cladding and replacement with standing-seam metal in a dark grey metallic color as shown in Figure 1 and Figure 2. More product information is attached in Appendix B.

¹ Historically addressed as 809 7th Street South or 808 8th Street South.
General Criteria for Granting Certificates of Appropriateness and Staff Findings

1. The effect of the proposed work on the landmark or the property upon which such work is to be done.

The proposed alteration will introduce metal roofing material to the subject property where an asphalt/composite shingle cladding presently exists. Property records do not indicate the original roof material. The earliest Sanborn Map to depict the area and the subject property dates to 1923 and indicates that the primary residence featured a roof clad in wooden shingles, and the detached garage had a “composition” roof, likely indicating shingles (Figure 3). Wood shingle roofing lost popularity during the 1920s and 1930s as St. Petersburg became increasingly densely-developed, increasing the risk of fire spreading between wood-clad surfaces, and as asphalt and composition coverings were marketed as a safer alternative.²

Due to the unique layout, topography, and dense vegetation of the Roser Park community, the subject property’s Prospect Court South façade is viewed from a fairly steep angle from the public right of way (Figure 4) but is essentially level to the street adjacent to the rear parcel line (Figure 5). The subject property’s orientation, coupled with the front-gabled massing of the building’s façade, does decrease the visibility of the roofing material from Roser Park Drive South.
2. The relationship between such work and other structures on the landmark site or other property in the historic district.

As noted, the subject property’s placement reduces the visibility of the proposed material. The majority of homes in the vicinity appear to have roofs clad in asphalt shingles of various grey and light brown hues (Figure 6). This appears to be fairly consistent with historic conditions, as shown in Sanborn Maps and postcard images, such as that included in Figure 7.
Figure 7: Undated historic postcard of Roser Park. The image appears to be hand-tinted and may not accurately represent materials or colors. The subject property’s porch is visible in the left side of the image. On file, City of St. Petersburg.

Figure 8: Section of 1951 Sanborn Map showing subject property with composition roof.

Property records have captured the roof of the subject property being replaced several times over its nearly hundred-year lifespan. In 1967, a permit was issued for the reroofing of the “front part only” of the subject property to a company called “Lifetime Aluminum,” suggesting that the roof may actually have been partially or entirely clad in metal at that time. Limited research has revealed that the Lifetime
Aluminum Shingle Company’s specialty appears to have been metal shingles, though they additionally advertised the installation of other types of roof surface.\(^3\)

In summary, the roof surface of the subject property has been changed at least once since construction – from wood shingle to asphalt composition shingle, but evidence suggests that a metal surface may have been present at some point during the historic period.

3. **The extent to which the historic, architectural, or archaeological significance, architectural style, design, arrangement, texture and materials of the local landmark or the property will be affected.**

The question of whether metal roofing is an appropriate material within the Roser Park Local Historic District was addressed in 2017 as part of the review of an application for a COA for the construction of a new home at 888 Roser Park Drive South (file 17-90200023). The proposed metal roof in that instance was a 5V metal crimp, rather than the standing-seam style that is being discussed presently, but the staff evaluation and recommendation is nonetheless relevant to this discussion:

The proposed metal roof cladding is not found in the District, though some limited examples of metal may have been applied sparingly historically; however, there is insufficient information to determine a positive finding of occurrence in the District. Since no extant materials are found, except for properties located just outside of the District boundary, a question arises as to the appropriateness of metal panel roofs on dwellings today in the District, given the lack of documentation for their historic applications. The roof is proposed to be clad in 5V-crimped metal panels which appear out of place for what occurs in the District today, though similar examples are found just outside of the District along 10th Avenue South based on research provided by the Applicant. Based on Sanborn Map references, two original dwellings in the District revealed wood shingles, while at least five were made of a non-combustible shingle material that likely included metal. It is likely, that if metal roofing was used during Charles Roser’s active involvement, such a roof would be similar to that found just south of District, on which light gauge decorative tin was likely applied in abbreviated panels. Thusly, the 5V-crimped panels are not advisable, and instead, a composite shingle roof would be appropriate.\(^4\)

During the Commission review of COA 17-90200023, staff and Commissioners discussed the appropriateness of the metal roofing material for the proposed new construction in further detail, with staff noting that the historic precedent for metal roofs in areas near the subject district would likely have included metal shingles, rather than the proposed crimped surface:

Dr. Frey [City Historic Preservationist] stated, in regards to the roof, that he personally likes the metal roof but he did suggest to the owner about maybe coming up with a more historical looking type of metal and then stated that one or two streets south of the subject site, there is a house with a tin roof that maybe could be copied. Dr. Frey went on to say that he has not completely closed the door on the metal roof but is not sure the proposed roof is appropriate in this district, especially on a house that is a portal to the district, but is open to suggestions from the architect.

Ms. Turner [the applicant] stated that she thought her architect did find some examples and maybe had not forward to staff and did show her one example in the area that has a metal crimped roof....

Dr. Frey stated that two metal roofs were found but were outside of the district and also mentioned that if the roof composition is changed then the roof pitch will have to change as well.\(^5\)

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\(^4\) Staff Report for COA 17-90200023, New Construction at 888 Roser Park Drive South. On file, City of St. Petersburg, 16.

\(^5\) Minutes from CPPC Meeting of July 11, 2018.
Upon Commission discussion, it was decided that the proposed metal roof was appropriate, at least at a noncontributing resource, and it was ultimately approved for the new construction at 888 Roser Park Drive South.

St. Petersburg’s *Design Guidelines for Historic Properties* additionally note that metal panel roof cladding is occasionally found on Craftsman-style homes in the city.⁶

Records do not indicate that the City’s Historic Preservation Office has received a COA application for the change of asphalt composition shingle to metal roof material in the past.

4. Whether the denial of a Certificate of Appropriateness would deprive the property owner of reasonable beneficial use of his or her property.

There is no indication that denial of a COA would substantially adversely affect the property owner’s use of the subject property.

5. Whether the plans may be reasonably carried out by the applicant.

The proposed project appears to be appropriate under this criterion.

6. A COA for a noncontributing structure in a historic district shall be reviewed to determine whether the proposed work would negatively impact a contributing structure or the historic integrity of the district. Approval of a COA shall include any conditions necessary to mitigate or eliminate negative impacts.

This criterion is not applicable to the proposed project.

**Additional Guidelines for Alterations**

1. A local landmark should be used for its historic purpose or be placed in a new use that requires minimal change to the defining characteristics of the building and its site and environment.

The proposed property appears to meet this criterion as it remains in use as a single family residence.

2. The distinguishing historic qualities or character of a building, structure, or site and its environment shall be preserved. The removal or alteration of any historic material or distinctive architectural features shall be avoided when reasonable.

The proposed project may not this criterion, as it introduces a roof surface that lacks strong evidence of historic precedent to the subject property.

3. Each property shall be recognized as a physical record of its time, place, and use. Changes that create a false sense of historical development, such as adding conjectural features or architectural elements from other buildings without sufficient documentary evidence, shall not be undertaken.

As noted above, the historic trajectory of the roof cladding at the subject property is somewhat unclear given available records. As such, staff recommends that Commissioners consider the appropriateness of the material to the subject district and properties contemporary to the subject property exhibiting similar style and building typology.

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⁶ City of St. Petersburg, *Design Guidelines for Historic Properties*, 47.
4. Most properties change over time; those changes that have acquired historic significance in their own right shall be retained and preserved, as appropriate. Evidence in the form of documentation by historic Sanborn Maps (Figure 8) suggests that the roof material of the primary structure was “composition” at least as early as 1951, and has been composition as the garage since 1923 or earlier. However, the exact appearance of the composition roofing employed during the historic era is unknown. A simple asphalt or asbestos shingle with a similar appearance to that which currently exists appears to be common for the district.

5. Distinctive features, finishes, and construction techniques or examples of craftsmanship that characterize a property shall be preserved. The proposed project appears to meet this criterion.

6. Deteriorated historic features shall be repaired rather than replaced. Where the severity of deterioration requires replacement of a distinctive feature, the new feature shall match the old in design, texture, and other visual qualities and, where reasonable, materials. Replacement of missing features shall be substantiated by documentary, physical, or pictorial evidence.

No materials or features of the subject property aside from the roof cladding are expected to be impacted by the proposed project.

7. Chemical or physical treatments, such as sandblasting, that cause damage to historic materials shall not be used. The surface cleaning of structures, if appropriate, shall be undertaken using the gentlest means possible. This criterion is not relevant to the proposed project.

8. Significant archaeological resources affected by a project shall be protected and preserved if designated pursuant to this section. If such resources must be disturbed, mitigation measures shall be undertaken. The proposed project does not include any ground-disturbing activity.

Staff Recommendation

Based on a determination of general consistency with Chapter 16, City Code of Ordinances, staff recommends that the Community Planning and Preservation Commission approve the Certificate of Appropriateness request for the alteration of the property at 809 Prospect Court South, a contributing property to the Roser Park Local Historic District, for the following reasons:

- Evidence shows that the roof material of the subject property has changed since its original construction,
- Metal roofing is noted to be locally appropriate to the style,
- The proposed coloring is in keeping with both the extant roof material at the subject property and that of buildings in the vicinity, minimizing visual departure from existing conditions on the block,
- The orientation of the subject property within the district and the low pitch of its roof make the material minimally visible from elsewhere in the subject district, and
- The Commission has recently approved a similar material within the subject district.
References


City of St. Petersburg. Staff Report for COA 17-90200023, New Construction at 888 Roser Park Drive South. On file, City of St. Petersburg.

Appendix A:

Application No. 19-90200005
CERTIFICATE OF APPROPRIATENESS

Application No. 19-90200005

All applications are to be filled out completely and correctly. The application shall be submitted to the City of St. Petersburg's Planning and Economic Development Department, located on the 8th floor of the Municipal Services Building, One Fourth Street North, St. Petersburg, Florida.

<table>
<thead>
<tr>
<th>GENERAL INFORMATION</th>
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<tbody>
<tr>
<td>NAME of APPLICANT (Property Owner): Stephanie Smart</td>
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<tr>
<td>Street Address: 809 Prospect Ct. South</td>
</tr>
<tr>
<td>City, State, Zip: St. Petersburg FL 33701</td>
</tr>
<tr>
<td>Telephone No:</td>
</tr>
<tr>
<td>Email Address:</td>
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</tbody>
</table>

| NAME of AGENT or REPRESENTATIVE: Arry's Roofing Inc. James Bush |
| Street Address: 401 E. Spruce St. |
| City, State, Zip: Tarpon Springs FL 34689 |
| Telephone No: 727.938.9985 |
| Email Address: eocrate@arrysroofing.com |

<table>
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<th>PROPERTY INFORMATION:</th>
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</thead>
<tbody>
<tr>
<td>Street Address: 809. Prospect Ct. S.</td>
</tr>
<tr>
<td>Parcel D or Tract Number: 30-31-17-76-98-6.000.0020</td>
</tr>
<tr>
<td>General Location: Roser Park Historic Dist.</td>
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</table>

| Designation Number: 87-10 |

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<tr>
<th>AUTHORIZATION</th>
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<tbody>
<tr>
<td>City staff and the designated Commission will visit the subject property during review of the requested COA. Any code violations on the property that are noted during the inspections will be referred to the city's Codes Compliance Assistance Department.</td>
</tr>
</tbody>
</table>

By signing this application, the applicant affirms that all information contained within this application packet has been read and that the information on this application represents an accurate description of the proposed work. The applicant certifies that the project described in this application, as detailed by the plans and specifications enclosed, will be constructed in exact accordance with aforesaid plans and specifications. Further, the applicant agrees to conform to all conditions of approval. It is understood that approval of this application by the Commission in no way constitutes approval of a building permit or other required City permit approvals. Filing an application does not guarantee approval.

NOTES: 1) It is incumbent upon the applicant to submit correct information. Any misleading, deceptive, incomplete or incorrect information may invalidate your approval.

2) To accept an agent's signature, a notarized letter of authorization from the property owner must accompany the application.

Signature of Owner / Agent: [Signature] Date: 11/13/18
CERTIFICATE OF APPROPRIATENESS

NARRATIVE (PAGE 1 OF 2)

All applications must provide justification for the requested COA based on the criteria set forth in the Historic and Archaeological Preservation Overlay (City Code Section 16.30.070). These criteria are based upon the U.S. Secretary of the Interior's Standards for the Treatment of Historic Properties (available online at www.nps.gov/history/hps/tps/standards_guidelines.htm). Please type or print clearly. Illegible responses will not be accepted. Please use additional sheets of paper if necessary.

GENERAL INFORMATION

Property Address: 809 Prospect Ct. S. COA Case No: 

☐ Alteration of building/structure
☐ New Construction
☐ Relocation
☐ Demolition
☐ Alteration of archaeological site
☐ Site Work

☐ Single-family residence
☐ Multi-family residence
☐ Restaurant
☐ Hotel/Motel
☐ Office
☐ Commercial
☐ Other

Estimated Cost of Work: 34,207.00

WRITTEN DESCRIPTION OF PROPOSED WORK

Explain what changes will be made to the following architectural elements and how the changes will be accomplished. Please provide a detailed brochure or samples of new materials.

1. Structural System

2. Roof and Roofing System

To single roof, re-nail deck to code, dry in with Polyglass MTS (FL5859), install Gulfcoast Gulflok Metal Roof System (FL116519). 3/12, 5/12, 1story.
3. Windows

4. Doors

5. Exterior siding

6. Decorative elements

7. Porches, Carriage Porch, Patio, Carport, and Steps

8. Painting and/or Finishes

9. Outbuildings

10. Landscaping, Parking, Sidewalk, Garden features

11. Other
PERMIT APPLICATION

All information must be filled-in completely
One Fourth Street North, St. Petersburg, FL 33701 (P.O. Box 2842, 33731)
Telephone (727) 893-7231 Fax (727) 892-5447

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<td>PROJECT SITE: 809 Prospect Ct S</td>
<td>PROPERTY OWNER:</td>
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<tr>
<td>Project or Tenant:</td>
<td>Name: Stephanie Smart</td>
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<tr>
<td>Address: 809 Prospect Ct S</td>
<td>Address: 809 Prospect Ct S Unit #:</td>
<td></td>
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<tr>
<td>Unit #:</td>
<td>City, State, Zip: St. Petersburg FL 33701</td>
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<tr>
<td>PIN:</td>
<td>Phone:</td>
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**CONTRACTOR:**

Company: Arrys Roofing Svc Inc.

Name: James House

Contractor's License #: 06C13964 & 6 Email: ecroate@arrysroofing.com

Phone: 727-938-9565 Cell: Fax:

**ARCHITECT / ENGINEER:**

Company:

Name:

State License #: Email:

Phone: Cell: Fax:

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## AFFIDAVIT

Application is hereby made to do work and installations as indicated. I certify that all foregoing information is accurate and that all work will comply with all applicable codes. I understand these codes shall take precedence over all approved construction documents, and issuance of this permit is verification that I will notify the property owner of Florida Lien Law req., F.S. 713.135.

Link: [http://www.leg.state.fl.us/Statutes/index.cfm](http://www.leg.state.fl.us/Statutes/index.cfm)

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## NOTICE

FBC 6th Edition (2017) 105.3.3. In addition to the requirements of this permit, there may be additional restrictions applicable to this property that may be found in the public records of this county, and there may be additional permits required from other governmental entities such as water management districts, state agencies or federal agencies. Additional plan review approval may be required by other City departments such as Zoning, Historic Preservation and Water Resources. This property may be located in a deed restricted community.


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## ASBESTOS Notification

FBC 6th Edition (2017) 105.9 (received customer asbestos notification). The enforcing agency shall require each building permit for the demolition or renovation of an existing structure to contain an asbestos notification statement which indicates the owner's responsibility to comply with the provisions of Section 469.003, Florida Statutes, and to notify the Department of Environmental Protection of his or her intentions to remove asbestos, when applicable, in accordance with state and federal law.


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## OWNER/CONTRACTOR DISCLOSURE STATEMENT

Owner must appear in person and sign Disclosure Statement in addition to this permit application. Link to Disclosure Statement Document

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All work shall comply with the applicable Florida Building Code

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[Signature] Applicant Signature

Date 11/3/18

[Signature] (or Notary)

Date 11/3/18

---

[Signature]

Applicant Print Name

Date 11/3/18

---

[Signature]

Permit Technician

Date 11/3/18

---

Applicant is [ ] personally known to me or produced [ ] as identification (type of identification)

---

[Signature]

Applicant Initial

Date 11/3/18
PERMIT APPLICATION

Is this application for a change of use or occupancy? □ Yes □ No

Occupancy Group: (check one) per FBC Ch. 3 – Section 302 Classification: Link: http://floridaiccsafe.org/
□ Assembly □ Business □ Educational □ Factory & Industrial
□ High Hazard □ Institutional □ Mercantile □ Residential
□ Storage □ Day Care □ Utility and Miscellaneous

Type of Construction (per FBC Ch. 6): □ I □ II □ III □ IV □ V

Protected / Unprotected: □ A or □ B (check one)

Fire Sprinkler: □ Y or □ N (check one) Fire Alarm: □ Y or □ N (check one)

General ‘Scope of Work’ description:
To shingleroof, re-nail deck to code, dry in with Polyglass
membrane (EL58259) install Gulf coast shingle metal
roof system (EL16617.9), 3171/2, 5/12 pitch, 1 story.

Please complete the following information for the sub-trades:

Electrical $_________ value
□ New service _________ amps
□ Service upgrade _________ amps
□ # of meters
□ # of panels
□ Relocate service
□ # of altered circuits
□ # of new circuits
□ Temporary sawpole _________ amps
□ Fire Alarm
□ Security
□ Smoke detector
□ Carbon monoxide detector
□ Data/Comm
□ Solar / PV
□ Other

Mechanical $_________ value
□ New Install _________ tons
□ Replacement _________ tons
□ Package unit _________ tons
□ # of condensers
□ # of air handlers
□ Vertical
□ Horizontal
□ Furnace
□ # of returns
□ # of supplies
□ Heat strip size _________ KW
□ Generator
□ Kitchen hood
□ Exhaust fans
□ Roof top
□ SEERS
□ HOV
□ Other

Building $34,207. value
□ Exterior cladding
□ Roof
□ Driveway
□ Window replacement
□ Demo entire structure _________ S.F.
□ New Construction _________ S.F.
□ Remodel _________ S.F.
□ Mobile Home Removal
□ Mobile Home Installation
□ Signs
□ Residential Enclo. _________ S.F.
□ Other

Fire $_________ value
□ Fire Alarm
□ Fire Sprinkler _________ type
□ Fire Suppression _________ hrs
□ Fire Separation _________ hrs
□ Other

Plumbing $_________ value
□ # added water closets
□ # changed water closets
□ # of bathtubs
□ # of showers
□ # of lavatories
□ # of water heaters
□ Sewer line ft.
□ Water line ft.
□ Tankless water heater
□ Solar
□ Other

Gas $_________ value
□ New
□ Replacement
□ Natural
□ Propane
□ Equipment
□ Piping ft.
□ Venting ft.
□ Tank size
□ Type of tank
□ Water heater
□ Other

FEMA Information
□ Flood Zone
□ Required Elevation
□ Lowest Finished Floor
□ RCD Value
□ Maximum Improvement


Total Estimated Construction Value: $34,207

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<td>Design Occupant Load: _______</td>
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<td>Certificate of Concurrency: _______</td>
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<td>TIF District Zone: _______</td>
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<td>Plan Reviewer: _______</td>
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(Print Name)
PERMIT APPLICATION

Zoning Use Only

Zoning District: ____________________________
Approved for: ____________________________


Setbacks per Approved Plan

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<td>Rear</td>
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OPO/ COA/ DRC# ____________________________
Tree Permit # ____________________________

NOTE: Tree removal not included, a separate tree removal is required for the removal of Code protected trees

Sign Type: ____________________________

Right-of-Way work:
Driveway type ____________________________
Front walkway ____________________________
Public sidewalk ____________________________

Zoning Conditions of Approval: ____________________________


Zoning reviewer: ____________________________
(Print Name)
NOTICE OF COMMENCEMENT

State of Florida
County of Pinellas

THE UNDERSIGNED hereby gives notice that improvements will be made to certain real property, and in accordance with Section 713.13 of the Florida Statutes, the following information is provided in this NOTICE OF COMMENCEMENT:

1. Description of property (legal description):

   Located on Lot 5, Section 202, Block 6, Pinellas Park 1st Add, St. Petersburg, FL 33710

   306-81-17-10-08-00-000-000-10-00

2. General description of improvements

   NEW METAL ROOF

3. Owner or lessee information

   Name and address: STEPHANIE H. SMART

4. Contractor information

   Name and address: Amy's Roofing Services Inc. - James Houch 461 E Spruce St, Tarpon Springs, FL 34689

5. Surety (if applicable, a copy of the payment bond is attached)

6. Lender

   Name and address:

7. Persons within the State of Florida designated by Owner upon whom notices or other documents may be served as provided by Section 713.13(1) (a) 7, Florida Statutes:

   Name and address:

8. In addition to himself or herself, Owner designates

   Name and address:

   Fax No.: (optional)

9. Expiration date of notice of commencement

   The expiration date shall be 1 year from the date of recording unless a different date is specified.

   WARNING TO OWNER: ANY PAYMENTS MADE BY THE OWNER AFTER THE EXPIRATION OF THE NOTICE OF COMMENCEMENT ARE CONSIDERED IMPROPER PAYMENTS UNDER CHAPTER 713, PART I, SECTION 713.13, FLORIDA STATUTES, AND CAN RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK ON RECORDING YOUR NOTICE OF COMMENCEMENT.

   Under penalty of perjury, I declare that I have read the foregoing notice of commencement and that the facts stated therein are true to the best of my knowledge and belief.

   STEPHANIE SMART

   [Print Name and Position of Signature] (Registered)Licensed Contractor/Owner

   The foregoing instrument was acknowledged before me this 8th day of October 2018, by

   [Print Name]

   [Type of ID]

   [Produced ID]

   [Notary Signature]

   [Print Name]

   [Commission or Notary Stamp]

   [Commission or Notary Stamp]

   [Commission or Notary Stamp]
AFFIDAVIT

Permit Number: _________________ Tax Folio Number: _________________

Property Address: 809 Prospect Ct. S.

STATE OF FLORIDA
COUNTY OF _________________

Before me, the undersigned authority, duly authorized to take acknowledgments and administer oaths, personally appeared _________________, (hereinafter Affiant), who after being duly sworn, deposes and says:

1. Affiant is the (check one): __________ Owner of the above described property; ________ the Owner's Authorized Agent

2. A Notice of Commencement, as required pursuant to Section 713.13 of the Florida Statutes, has been filed for recording in the official public records of _________________ County, Florida, as it relates to improvements to be made to that certain real property described herein.

3. A copy of said recorded Notice of Commencement is attached hereto.

Affiant Signature: _________________

Print Name: _________________

Sworn to and subscribed before me on this ___________ day of _________________, 20__

by _________________, who is personally known to me or has produced as identification.

Notary Public Signature: _________________

Print Name: _________________

My Commission Expires: _________________

EMILY J. CROAT
Commission # GG 091297
Expires April 8, 2021
Bonded Thru Troy Fire Insurance 800-385-7017
METAL CONTRACT FORM
ARRY'S PRECEDENT SYSTEM

Please read on in regards to address for trucks.

Our current schedule is: Use 808 8th Street South for truck access.

10 to 12 weeks from the day we receive your signed contract in our office.
(Weather permitting)

Date: October 2, 2018

Name: Stephanie Smart
Address: 809 Prospect Court South
City: Saint Petersburg, FL 33701
Phone: Mobile: (202) 487-7432 leekelise@me.com < Tom Schmidt
Job Location: Same as Above 703-677-6677
Smart22@gmail.com

RECEIVED OCT 2 5 2018

We hereby submit specifications and estimates for:

1. SUBMITTALS
A. When applicable, submit copies of manufacturer's product data sheets, data drawings, recommended installation procedures, and samples for each type of roofing product, including profile and color.
B. Installation drawings shall show methods of installation, elevations, and plans of roof and wall panels, sections and details, specified loads, flashings, roof curbs, vents, seals, and interfaces with all materials not supplied by the metal roofing system manufacturer. Prepared identification of components and their finishes.

2. QUALITY ASSURANCE
A. Manufacturer Qualifications: Only the highest quality metal roofing products and components used from superior partnering manufacturers to reduce risks and promote longevity.
B. Installer Qualifications: Installers must be approved for installation of all roofing products to be installed under this section. Installers have trained and tested by completing NRCA, FRSA and various manufacturer certification programs.

3. REGULATORY REQUIREMENTS
A. Install all roofing products in accordance with all federal, state, and local building codes, as well as the Sheet Metal and Air Conditioning Contractors' National Association, Inc. (SMACNA). The National Roofing Contractors Association (NRCA).
B. All work shall be performed in a manner consistent with current OSHA guidelines.

4. SCHEDULING & PROJECT CONDITIONS
A. Review all pertinent requirements for the project, including but not limited to, scheduling, product delivery, storage, and handling, weather considerations, project duration, and requirements for the specified warranty. Proceed with work only when existing and forecasted weather conditions will permit work to be performed in accordance with Manufacturer recommendations.

5. EXECUTION
A. EXAMINATION & PREPARATION
1) Complete removal of all existing roof system components is required for extended, Manufacturer backed warranties. Re-cover applications are not acceptable. Remove all existing shingles roofing down to the roof deck. Any additional roofing layers discovered will be an additional charge of $5.00 per square.
2) Verify that the deck is dry, solid, clean, and smooth, and is structurally sound and free of deteriorated decking. If applicable, re-slab roof deck as per current florics and local building codes. Defects that need to be corrected before work can commence will be brought to the attention of the General Contractor or Owner in writing and addressed by them.
3) If applicable, install crickets on the up-slope side of all chimneys wider than 24" and/or on all roofs steepener than 6/12 pitch.
4) Clean and dispose of all roofing debris from rooftops and ground premises, protecting the original condition of the yard, driveways, and landscaping.

B. INSTALLATION OF UNDERLAMENTS
1) Dry-in roof with Polyvalite MTS (Highest Quality) single ply. Self-Adhered Underlayment system directly to the concrete deck, which serves as a "secondary water barrier". The primary water barrier will be the metal and flashing system.
2) Install cavity edge strip edge metal flashing tight with facia boards 2½" joints 4 inches. Seal with butyl around perimeter of roof. All flashings will be sealed from the outside elements with a "profile specific" closure strip or an applicable sealant. Apply method. Match color of perimeter flashings to the metal system being installed.
3) Pre-formed ribbed metal valley metal and wall flashing systems to be installed on top of the underlayment system, correctly tied into the underlayment system to elevate the tile out of the water flow, which reduces the likelihood of debris accumulation on promotes leaks.
4) All penetrations and vulnerable leak areas are to be flashed according to manufacturer, SMACNA and NRCA application instructions and construction details. Remove all existing flashings as necessary and seal flashings with applicable sealant. Remove and install all new penetrations passing through the panel, as to shed water on top of the metal and not under the flashing seal must be made directly to the Metal Roof penetration. If applicable, paint to compliment the new roof system.

C. INSTALLATION OF METAL SYSTEM
1) Install the metal roof system in accordance with manufacturer’s instructions approved shop drawings.
2) The metal roof system selected shall be designed by the manufacturer as a complete system. Design load application shall be in accordance with ACSE 7-1971, current version.
3) Install the metal roof system so that it is weather tight and allows for thermal movements.
4) Do not allow panels or trim to come into contact with dissimilar materials.
5) Field cuttings of metal, trim, and flashing shall be accomplished by hand or electric shears. At no time shall a hot air saw be used.
6) Accessories and their fasteners shall be capable of resisting the specified design wind uplift forces and shall allow for thermal movement of the roof panel system. Exposed fasteners shall not restrict free movement of the roof panel system resulting from thermal forces, except as designed points of roof panel fixity.

D. INSTALLATION OF ATTIC VENTILATION
1) Ventilation must meet or exceed current F.H.A., HUD and local code requirements.
2) Install N/A number of attic Breeze (Highest Quality) solar powered ventilator designed to allow the passage of damaging hot air and moisture out of attics. Color: N/A
3) Alternate Venting Solution: N/A
4) FI Flex-O-Vent

E. PROTECTION
1) Protect installed products from foot traffic until completion of the project. All foot traffic should be kept to a minimum and only walk on the roof when absolutely required; never step on the rib portion of the roof panel.
2) Any roof areas that are not completed by the end of the workday are to be protected from moisture and contaminants.

F. WARRANTY
A. 20 Year 100% Workmanship Guarantee within the scope of this contract and all Manufacturers’ written warranties will be issued upon completion of contract. Consult with Manufacturer for specific project warranty requirements.
**Name:** Stephanie Smart

**Metal System #1**
- Manufacturer: Gulf Coast Supply
- Style: 24Ga 1" Gulf Lok 16" Striated Panel
- Color: Kynar
- **Subtotal Price:** $34,745.00

**Metal System #2**
- Manufacturer: Gulf Coast Supply
- Style: 24Ga 1" Gulf Lok 16" Striated Panel
- Color: Galvalume
- **Subtotal Price:** $27,185.00

**Metal System #3**
- Manufacturer: Gulf Coast Supply
- Style: 28Ga 1" Gulf Lok 16" Striated Panel
- Color: Galvalume
- **Subtotal Price:** $25,635.00

**Options:**

1. **Add Insulation Upgrade**
   - Add Owens-Corning insulation during roofing project
   - This option can provide significant tax credit and an ongoing average savings of 20% on your monthly energy bill.
   - **Subtotal Price:** $538.00

2. **Guttering Upgrade**
   - Install rain removal systems, guttering & downspouts for your home
   - **Subtotal Price:** $0.00

3. **Chimney Cap Upgrade**
   - Does not include termination vent cap
   - **Subtotal Price:** $0.00

   **Chimney Cap Options:**
   - Galvanized Chimney Cap
   - Stainless Steel Chimney Cap
   - **Subtotal Price:** $0.00

4. **Maintenance Program**
   - **Subtotal Price:** $0.00

**Additional Work to Be Done:**

*** TOTE REMOVAL AND HAND LOAD OF THE ROOF ***

*** Perimeter is exposed. Right screw size will be approved by homeowner before installation ***

*** Contract includes up to 2 sheets of plywood and wind mitigation for insurance purposes ***

**WE PROPOSE** hereby to furnish material and labor — complete in accordance with above specifications, for the sum of:

**Contract Price:**
$34,745.00

**Additional Option(s)** specified above:

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<th>Price</th>
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**Total Contract Price:**
$34,745.00

**Additional Notes:**
- The roofing industry is currently experiencing extreme price volatility in asphalt related products. Because these prices cannot be obtained from suppliers, prices are subject to change. If there is an increase in the price of asphalt related products, change in the Contractor's subsequent to making this Contract, the Contractor shall be increased to reflect the additional cost to the Contractor, upon submission of written documentation thereof.

**Estimated by:** Arry's Roofing Services, Inc. / Date

**Customer/Owner:** / Date

*NOTE:* I have read and understand this proposal, the terms and conditions and all documents referenced therein and agree to be bound by their terms.
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<tr>
<td>Address/Phone/Email</td>
<td>1111 W. Newport Center Drive Deerfield Beach, FL 33442 (954) 233-1378 Ext 242 <a href="mailto:alicer@polyglass.com">alicer@polyglass.com</a></td>
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<td>Authorized Signature</td>
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<td><a href="mailto:alender@polyglass.com">alender@polyglass.com</a></td>
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<tr>
<td>Technical Representative</td>
<td>Maury Alpert</td>
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<td>Address/Phone/Email</td>
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- Florida Engineer or Architect Name who developed the Evaluation Report: Robert Nieminen
- Florida License: PE-59166
- Quality Assurance Entity: UL LLC
- Quality Assurance Contract Expiration Date: 10/05/2018
- Validated By: John W. Knezovich, PE Validation Checklist - Hardcopy Received

**Certificate of Independence**

**Referenced Standard and Year (of Standard)**

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Equivalence of Product Standards
Certified By
Sections from the Code

Product Approval Method

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**Summary of Products**

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<td>5259.1</td>
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<td>Roofing underlayments</td>
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**Limits of Use**

Approved for use in HVHZ: No
Approved for use outside HVHZ: Yes
Impact Resistant: N/A
Design Pressure: +N/A-62.5
Other: 1.) The design pressure in this application relates to one particular underlayer system (over concrete deck) for use under foam-on tile systems (where the underlayer forms part of the load-path). Refer to ER Section 5.6.4 for other systems, other deck types and associated maximum design pressures. 2.) Refer to ER Section 5 for other limits of use.

**Installation Instructions**

Installation Instructions [FL5259_R28_11_2018_01_FINAL_ER_POLYGlass_UNDERLAYMENTS_FL5259-R28.pdf]

Verified By: Robert Nieminen PE 59166
Created by Independent Third Party: Yes

**Evaluation Reports**

Created by Independent Third Party: Yes
ENGINEER

Polyglass USA, Inc.
1111 West Newport Center Drive
Deerfield Beach, FL 33442
(954) 233-1230

EVALUATION REPORT

Evaluation Report P12060.02.09-R24
FL5259-R28
Date of Issuance: 02/24/2009
Revision 24: 01/24/2018

SCOPE:
This Evaluation Report is issued under Rule 61G20-3 and the applicable rules and regulations governing the use of construction materials in the State of Florida. The documentation submitted has been reviewed by Robert Niimenen, P.E. for use of the product under the Florida Building Code and Florida Building Code, Residential Volume. The products described herein have been evaluated for compliance with the 6th Edition (2017) Florida Building Code sections noted herein.

DESCRIPTION: Polyglass Roof Underlayments

LABELING: Labeling shall be in accordance with the requirements the Accredited Quality Assurance Agency noted herein.

CONTINUED COMPLIANCE: This Evaluation Report is valid until such time as the named product(s) changes, the referenced Quality Assurance documentation changes, or provisions of the Code that relate to the product change. Acceptance of this Evaluation Report by the named client constitutes agreement to notify Robert Niimenen, P.E. of any changes to the product(s), the Quality Assurance or the production facility location(s). NEMO|etc. requires a complete review of this Evaluation Report relative to updated Code requirements with each Code Cycle.

ADVERTISEMENT: The Evaluation Report number preceded by the words "NEMO|etc. Evaluated" may be displayed in advertising literature. If any portion of the Evaluation Report is displayed, then it shall be done in its entirety.

INSPECTION: Upon request, a copy of this entire Evaluation Report shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This Evaluation Report consists of pages 1 through 14.

Prepared by:

Robert J.M. Niimenen, P.E.
Florida Registration No. 59166, Florida DCA A51983

CERTIFICATION OF INDEPENDENCE:
1. NEMO|etc. does not have, nor does it intend to acquire or will it acquire, a financial interest in any company manufacturing or distributing products it evaluates.
2. NEMO|etc. is not owned, operated or controlled by any company manufacturing or distributing products it evaluates.
3. Robert Niimenen, P.E. does not have nor will acquire, a financial interest in any company manufacturing or distributing products for which the evaluation reports are being issued.
4. Robert Niimenen, P.E. does not have, nor will acquire, a financial interest in any other entity involved in the approval process of the product.
5. This is a building code evaluation. Neither NEMO|etc. nor Robert Niimenen, P.E. are, in any way, the Designer of Record for any project on which this Evaluation Report, or previous versions thereof, is/was used for permitting or design guidance unless retained specifically for that purpose.
ROOFING COMPONENT EVALUATION:

1. SCOPE:

Product Category: Roofing
Sub-Category: Underlayments

Compliance Statement: Roof Underlayments, as produced by Polyglass USA, Inc., have demonstrated compliance with the following sections of the 6th Edition (2017) Florida Building Code through testing in accordance with the following Standards. Compliance is subject to the Installation Requirements and Limitations / Conditions of Use set forth herein.

2. STANDARDS:

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3. REFERENCES:

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<td>Physical Properties</td>
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<td>10/03/2014</td>
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<td>Polyglass USA</td>
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<td>Products Current</td>
<td>02/18/2009</td>
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<td>Polyglass USA</td>
<td>P/L Affidavit</td>
<td>Mule-Hide Cross Ltg</td>
<td>01/01/2008</td>
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<td>Polyglass USA</td>
<td>Materials Affidavit</td>
<td>Polystick SA Compound</td>
<td>08/18/2011</td>
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<td>UL, LLC. (QUA9625)</td>
<td>Quality Control</td>
<td>Service Confirmation</td>
<td>Exp. 10/05/2018</td>
</tr>
</tbody>
</table>

4. **PRODUCT DESCRIPTION:**

4.1 **Mechanically Fastened Underlayments:**

4.1.1 **Elastobase** is a fiberglass reinforced, SBS modified bitumen base sheet.

4.1.2 **Elastobase P** is a polyester-reinforced, SBS modified bitumen base sheet.

4.1.3 **Polyglass G2 Base** is a fiberglass-reinforced, asphaltic base sheet.

4.1.4 **Polyglass APP Base** is a fiberglass-reinforced, APP modified bitumen base sheet.

4.2 **Self-Adhering Underlayments:**

4.2.1 **Polystick MTS** or **Polystick MTS PLUS** is a nominal 60-mil thick rubberized asphalt waterproofing membrane, glass fiber reinforced, surfaced with polyolefinic film surface; meets FRSA/TRI April 2012.

4.2.2 **Polystick IR-Xe** is a nominal 60-mil thick rubberized asphalt waterproofing membrane, glass fiber reinforced, with an aggregate surface; meets ASTM D1970.

4.2.3 **Polystick TU Plus** is a nominal 80-mil thick rubberized asphalt waterproofing membrane, glass fiber reinforced, with a polyester fabric surface; meets ASTM D1970 and FRSA/TRI April 2012.
4.2.4 Polystick TU P is a nominal 130-mil thick rubberized asphalt waterproofing membrane, glass-fiber/polyester reinforced, with a granular surface; meets FRSA/TRI April 2012.

4.2.5 Polystick TU Max is a nominal 60-mil thick rubberized asphalt waterproofing membrane with a 190 g/m² polyester fabric surface; meets ASTM D1970 and FRSA/TRI April 2012.

4.2.6 Polylex SAP, Polylex SAP FR, Mule-Hide SA-APP Cap Sheet and Mule-Hide SA-APP Cap Sheet (FR) are polyester reinforced, APP modified bitumen cap sheets; meet FRSA/TRI April 2012.

4.2.7 Polylex Dual Pro™ is a nominal 60-mil thick dual-layer rubberized asphalt waterproofing membrane, fiberglass reinforced, with a polyester fabric surface; meets ASTM D1970.

4.2.8 Polylex Tile Pro™ is a nominal 60-mil thick dual-layer rubberized asphalt waterproofing membrane, fiberglass reinforced, with a polyester fabric surface; meets ASTM D1970 and FRSA/TRI April 2012.

4.2.9 Polystick MU-X is a nominal 54-mil thick dual-layer rubberized asphalt waterproofing membrane, fiberglass reinforced, with a polypropylene film surface; meets AC188 and physical requirements of ASTM D1970 (See Section 5.8).

4.3 Mechanically Fastened and/or Bonded Underlayments:

4.3.1 Elastoflex G TU is a polyester reinforced, modified bitumen tile underlayment composed of a sand-surfaced SBS modified bitumen back-side and granule-surfaced APP modified bitumen top-side. Elastoflex G TU is for use as an alternate to “Mineral Surface Roll Roofing” (ASTM D6380, Class M) in the “Single Ply System” from FRSA/TRI April 2012 (04-12) beneath mechanically fastened tile roof systems or Hot Asphalt applied “Cap Sheet” in the “Two Ply System” from FRSA/TRI April 2012 (04-12) beneath mechanically fastened or adhered tile roof systems.

4.3.2 Elastoflex S6 G and Elastoflex S6 G FR are polyester reinforced, SBS modified bitumen cap sheets; meet ASTM D6164. Elastoflex S6 G and Elastoflex S6 G FR are for use as an alternate to “Mineral Surface Roll Roofing” (ASTM D6380, Class M) in the “Single Ply System” from FRSA/TRI April 2012 (04-12) beneath mechanically fastened tile roof systems. Elastoflex S6 G is for use as an alternate to Hot Asphalt applied “Cap Sheet” in the “Two Ply System” from FRSA/TRI April 2012 (04-12) beneath mechanically fastened or adhered tile roof systems. Elastoflex S6 G FR is for use as an alternate to Hot Asphalt applied “Cap Sheet” in the “Two Ply System” from FRSA/TRI April 2012 (04-12) beneath mechanically fastened tile roof systems.

4.3.3 Polylex G and Polylex G FR are polyester reinforced, APP modified bitumen cap sheets; meet ASTM D6222. Polylex G is for use as an alternate to Heat Applied “Cap Sheet” in the “Two Ply System” from FRSA/TRI April 2012 (04-12) beneath mechanically fastened or adhered tile roof systems. Polylex G FR is for use as an alternate to Heat Applied “Cap Sheet” in the “Two Ply System” from FRSA/TRI April 2012 (04-12) beneath mechanically fastened tile roof systems.

5. Limitations:

5.1 This is a building code evaluation. Neither NEMO|etc. nor Robert Nieminen, P.E. are, in any way, the Designer of Record for any project on which this Evaluation Report, or previous versions thereof, is/was used for permitting or design guidance unless retained specifically for that purpose.

5.2 This Evaluation Report is not for use in the HVHZ.

5.3 Fire Classification is not part of this Evaluation Report; refer to current Approved Roofing Materials Directory for fire ratings of this product.

5.4 Polyglass Roof Underlayments may be used with any prepared roof cover where the product is specifically referenced within FBC approval documents. If not listed, a request may be made to the Authority Having Jurisdiction for approval based on this evaluation combined with supporting data for the prepared roof covering.
5.5 Allowable Roof Covers:

<table>
<thead>
<tr>
<th>Underlayment</th>
<th>Asphalt Shingles</th>
<th>Nail-On Tile</th>
<th>Foam-On Tile</th>
<th>Metal</th>
<th>Wood Shakes &amp; Shingles</th>
<th>Slate</th>
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</thead>
<tbody>
<tr>
<td>Elastobase</td>
<td>Yes</td>
<td>Yes (Base Sheet in 2-ply system)</td>
<td>Yes (Base Sheet in 2-ply system)</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Elastobase P</td>
<td>Yes</td>
<td>Yes (Base Sheet in 2-ply system)</td>
<td>Yes (Base Sheet in 2-ply system)</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Polyglass G2 Base</td>
<td>No</td>
<td>Yes (Base Sheet in 2-ply system)</td>
<td>No</td>
<td>No</td>
<td>No</td>
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<tr>
<td>Polyglass APP Base</td>
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<td>Yes (Base Sheet in 2-ply system)</td>
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<tr>
<td>Polystick MTS or MTS PLUS</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Polystick IR Xe</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
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<tr>
<td>Polystick TU P</td>
<td>Yes</td>
<td>Yes (See 5.5.1)</td>
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<td>No</td>
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<tr>
<td>Polystick TU Plus</td>
<td>Yes</td>
<td>Yes (See 5.5.1)</td>
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<td>Yes</td>
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<td>Yes</td>
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<tr>
<td>Polystick TU Max</td>
<td>No</td>
<td>Yes (See 5.5.1)</td>
<td>No</td>
<td>No</td>
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<td>No</td>
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<tr>
<td>Polystick Dual Pro</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Polystick Tile Pro</td>
<td>Yes</td>
<td>Yes (See 5.5.1)</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Polystick MU X</td>
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<td>No</td>
<td>No</td>
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<td>Yes</td>
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<tr>
<td>Elastoflex SG G</td>
<td>Yes</td>
<td>Yes (See 5.5.1)</td>
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<td>Yes</td>
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<tr>
<td>Elastoflex SG G FR</td>
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<tr>
<td>Elastoflex G TU</td>
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<td>Yes</td>
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<tr>
<td>Polyflex G</td>
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<td>Yes</td>
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<tr>
<td>Polyflex G FR</td>
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<tr>
<td>Polyflex SAP or SAP FR</td>
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<td>Yes</td>
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<tr>
<td>Mule Hide SA-APP Cap Sheet or SA-APP Cap Sheet (FR)</td>
<td>Yes</td>
<td>Yes (See 5.5.1)</td>
<td>No</td>
<td>Yes</td>
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</table>

5.5.1 "Foam-On Tile" is limited to use of the following Approved tile adhesives / underlayment combinations.

<table>
<thead>
<tr>
<th>Adhesive</th>
<th>Florida Product Approval</th>
<th>Underlayment(s)</th>
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<tbody>
<tr>
<td>DAP Foam Touch 'n Seal StormBond Roof Tile Adhesive</td>
<td>FL14506</td>
<td>Polystick TU Plus, Polystick TU Max</td>
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<tr>
<td>Dow TileBond™</td>
<td>FL22525</td>
<td>Polystick TU P, Polystick TU Plus, Polyflex SAP or Tile Pro</td>
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</tbody>
</table>

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1 Refer to Tile Manufacturer's or Adhesive Manufacturer's Florida Product Approval for Overturning Moment Resistance Performance.
5.6 Allowable Substrates:

5.6.1 Direct-Bond to Deck:

Polystick (all variations), Dual Pro, Tile Pro, Polyflex SAP or SAP FR, Mule-Hide SA-APP Cap Sheet or SA-APP Cap Sheet (FR) self-adhered to:

- New untreated plywood; ASTM D41 primed new untreated plywood; Existing plywood; ASTM D41 primed existing plywood; New or existing, unprimed OSB; ASTM D41 primed OSB; Southern Yellow Pine; ASTM D41 primed Southern Yellow Pine; ASTM D41 primed structural concrete; Huber Engineered Woods “ZIP System” Panels (designed and installed to meet wind loads for project).

Note: Polyglass does not require priming of new or existing plywood or OSB sheathing. New or existing plywood or OSB sheathing should be cleaned of all dirt and debris prior to application of Polystick membranes.

Elastoflex G TU, Elastoflex S6 G or Elastoflex S6 G FR in hot asphalt to:

- ASTM D41 primed structural concrete.

Polyflex G or Polyflex G FR torch-applied to:

- ASTM D41 primed structural concrete.

5.6.2 Bond-to-Insulation:

Polystick (all variations), Polyflex SAP or SAP FR, Mule-Hide SA-APP Cap Sheet or SA-APP Cap Sheet (FR) self-adhered to:

- ASTM C1289, Type II, Class 1 polyisocyanurate or Type V polyisocyanurate-composite insulation; Dens Deck DuraGuard; Dens Deck Prime; or SECURock Gypsum-Fiber Roof Board.

Elastoflex G TU, Elastoflex S6 G or Elastoflex S6 G FR in hot asphalt to:

- Dens Deck Prime or SECURock Gypsum-Fiber Roof Board.

Polyflex G or Polyflex G FR torch-applied to:

- ASTM D41 primed structural concrete; Dens Deck Prime or SECURock Gypsum-Fiber Roof Board.

For installation under mechanically attached prepared roof coverings, insulation shall be attached per minimum requirements of the prepared roof covering manufacturer’s Product Approval. For installations under foam-on tile systems, insulation attachment shall be designed by a qualified design professional and installed based on testing of the insulation/underlayment system in accordance with FBC Section 1504.3.1.

5.6.3 Bond to Mechanically Attached Base Layer:

Polystick (all variations), Polyflex SAP or SAP FR, Mule-Hide SA-APP Cap Sheet or SA-APP Cap Sheet (FR) Dual Pro or Tile Pro self-adhered to:

- ASTM D226, Type I or II felt; Elastobase; Elastobase P or Mule-Hide Nail Base.

Elastoflex G TU, Elastoflex S6 G or Elastoflex S6 G FR in hot asphalt to:

- ASTM D226, Type I or II felt; Elastobase; Elastobase P, Mule-Hide Nail Base or Polyglass G2 Base.

Polyflex G or Polyflex G FR torch-applied to:

- Elastobase; Elastobase P, Mule-Hide Nail Base, Polyglass G2 Base or Polyglass APP Base.

For installations under mechanically attached prepared roof coverings, base layer shall be attached per minimum codified requirements. For installations under foam-on tile systems, base layer shall be attached per minimum requirements of FRSA/TRI April 2012 (04-12), Appendix A, Table 1, or as listed in Section 5.6.4 herein, or as tested in accordance with FBC Section 1504.3.1.
5.6.4 **Wind Resistance for Underlayment Systems in Foam-On Tile Applications:** FRSA/TRI April 2012 (04-12) does not address wind uplift resistance of all underlayment systems beneath foam-on tile systems, where the underlayment forms part of the load-path. The following wind uplift limitations apply to underlayment systems that are not addressed in FRSA/TRI April 2012 (04-12) and are used in foam-on tile applications. Maximum Design Pressure is the result of testing for wind load resistance based on allowable wind loads, and reflects the ultimate passing pressure divided by 2 (the 2 to 1 margin of safety per FBC 1504.9 has already been applied). Refer to FRSA/TRI April 2012 (04-12), Appendix A, Table 1A or FBC 1609 for determination of design wind loads.

### Maximum Design Pressure = -90 psf:
**Deck:** Min. 15/32-inch plywood to meet project requirements to satisfaction of Authority Having Jurisdiction.
**Primer:** None
**Base Ply:** (Optional) Polystick MTS or Polystick MTS PLUS, self-adhered.

### Maximum Design Pressure = -97.5 psf:
**Deck:** Min. 15/32-inch plywood to meet project requirements to satisfaction of Authority Having Jurisdiction.
**Primer:** PG100 or ASTM D41
**Base Ply:** (Optional) Polystick MTS or Polystick MTS PLUS, self-adhered.
**Underlayment:** Polystick TU P, Polystick TU Plus, Polystick TU Max, Polylux SAP, Polylux SAP FR, Mule-Hide SA-APP Cap Sheet and Mule-Hide SA-APP Cap Sheet (FR), self-adhered and back-nailed within the selvedge-edge side laps using 12 ga. x 1/4" ring shank nails through 32 ga., 1-5/8" diameter tin caps spaced 12-inch o.c.

### Maximum Design Pressure = -105 psf:
**Deck:** Min. 15/32-inch plywood to meet project requirements to satisfaction of Authority Having Jurisdiction.
**Primer:** WB-3000
**Base Ply:** (Optional) Polystick MTS or Polystick MTS PLUS, self-adhered.
**Underlayment:** Polystick TU P, Polystick TU Plus, Polystick TU Max, Polylux SAP, Polylux SAP FR, Mule-Hide SA-APP Cap Sheet and Mule-Hide SA-APP Cap Sheet (FR), self-adhered and back-nailed within the selvedge-edge side laps using 12 ga. x 1/4" ring shank nails through 32 ga., 1-5/8" diameter tin caps spaced 12-inch o.c.

### Maximum Design Pressure = -135 psf:
**Deck:** Min. 15/32-inch plywood to meet project requirements to satisfaction of Authority Having Jurisdiction.
**Primer:** (Optional) PG100 or ASTM D41
**Base Ply:** (Optional) Polystick MTS or Polystick MTS PLUS, self-adhered.
**Joints:** Min. 4-inch wide strips of Elastoflex SA-V over all plywood joints.

### Maximum Design Pressure = -315 psf:
**Deck:** Structural concrete to meet project requirements to satisfaction of Authority Having Jurisdiction.
**Primer:** PG100 or ASTM D41
**Base Ply:** (Optional) Polystick MTS or Polystick MTS PLUS, self-adhered.

### Maximum Design Pressure = -622.5 psf:
**Deck:** Structural concrete to meet project requirements to satisfaction of Authority Having Jurisdiction.
**Primer:** PG100 or ASTM D41
**Underlayment:** Elastoflex G TU or Elastoflex S6 G, applied in full mopping of hot asphalt or Polylux G, torch-applied.

### Maximum Design Pressure = -30.0 psf**:
**Deck:** Min. 15/32-inch OSB to meet project requirements to satisfaction of Authority Having Jurisdiction.
**Base Sheet:** Elastobase or Mule-Hide Nail Base (poly-film top surface)
**Fasteners:** 11 ga. x 1.25-inch long x 1-inch head diameter round metal cap nails
**Spacing:** 6-inch o.c. at the 3-inch wide side laps and 6-inch o.c. at two (2) equally spaced staggered center rows.
**Base Ply:** (Optional) Polystick MTS or Polystick MTS PLUS, self-adhered.
#8 Maximum Design Pressure = -37.5 psf*:
Deck: Min. 15/32-inch plywood to meet project requirements to satisfaction of Authority Having Jurisdiction.
Base Sheet: Elastobase or Mule-Hide Nail Base (poly-film top surface)
Fasteners: 11 ga. x 1.25-inch long x 1-inch head diameter round metal cap nails
Spacing: 6-inch o.c. at the 3-inch wide side laps and 6-inch o.c. at two (2) equally spaced staggered center rows.
Base Ply: (Optional) Polystick MTS or Polystick MTS PLUS, self-adhered.

#9 Maximum Design Pressure = -37.5 psf*:
Deck: Min. 19/32-inch plywood to meet project requirements to satisfaction of Authority Having Jurisdiction.
Base Sheet: One (1) or two (2) layers ASTM D226, Type II felt
Fasteners: 11 ga. x 1.25-inch long x 1-inch head diameter round metal cap nails
Spacing: 6-inch o.c. at the 3-inch wide side laps and 12-inch o.c. at two (2) equally spaced staggered center rows.
Underlayer: Elastoflex G TU or Elastoflex S6 G, applied in full mopping of hot asphalt.

#10 Maximum Design Pressure = -45 psf*:
Deck: Min. 19/32-inch plywood to meet project requirements to satisfaction of Authority Having Jurisdiction.
Base Sheet: One (1) layer ASTM D226, Type II felt
Fasteners: 11 ga. x 1.25-inch x 3/8-inch head diameter annular ring shank roofing nails at 1-5/8-inch diameter tin caps
Spacing: 4-inch o.c. at the 2-inch wide side laps and 4-inch o.c. at two (2) equally spaced staggered center rows.
Base Ply: (Optional; for use with self-adhering underlayment only) Polystick MTS or Polystick MTS PLUS, self-adhered.

#11 Maximum Design Pressure = -45 psf*:
Deck: Min. 19/32-inch plywood to meet project requirements to satisfaction of Authority Having Jurisdiction.
Base Sheet: Two (2) layers ASTM D226, Type II felt
Fasteners: 11 ga. x 1.25-inch long x 3/8-inch head diameter annular ring shank roofing nails at 1-5/8-inch diameter tin caps
Spacing: 9-inch o.c. at the 2-inch wide side laps and 9-inch o.c. at two (2) equally spaced staggered center rows.
Base Ply: (Optional; for use with self-adhering underlayment only) Polystick MTS or Polystick MTS PLUS, self-adhered.

#12 Maximum Design Pressure = -45 psf:
Deck: Min. 15/32-inch plywood to meet project requirements to satisfaction of Authority Having Jurisdiction.
Base Sheet: Elastobase (sanded top surface for hot-asphalt or torch-applied cap or poly-film surface for torch-applied cap)
Fasteners: Simplex MAXX Cap Fasteners
Spacing: 9-inch o.c. at the 2-inch wide side laps and 18-inch o.c. at two (2) equally spaced staggered center rows.
Underlayer: Elastoflex G TU or Elastoflex S6 G, applied in full mopping of hot asphalt or Polyflex G, torch-applied.

#13 Maximum Design Pressure = -52.5 psf:
Deck: Min. 15/32-inch plywood to meet project requirements to satisfaction of Authority Having Jurisdiction.
Base Sheet: Elastobase (sanded top surface for hot-asphalt or torch-applied cap or poly-film surface for torch-applied cap)
Fasteners: Simplex MAXX Cap Fasteners
Spacing: 9-inch o.c. at the 2-inch wide side laps and 12-inch o.c. at two (2) equally spaced staggered center rows.
Underlayer: Elastoflex G TU or Elastoflex S6 G, applied in full mopping of hot asphalt or Polyflex G, torch-applied.

#14 Maximum Design Pressure = -52.5 psf:
Deck: Min. 15/32-inch plywood to meet project requirements to satisfaction of Authority Having Jurisdiction.
Base Sheet: Elastobase or Mule-Hide Nail Base (poly-film top surface)
Fasteners: Simplex Original Cap Nails
Spacing: 6-inch o.c. at the 3-inch wide side laps and 6-inch o.c. at four (4) equally spaced staggered center rows.
Base Ply: (Optional) Polystick MTS or Polystick MTS PLUS, self-adhered.
#15
Maximum Design Pressure = -52.5 psf:
Deck: Min. 15/32-inch plywood to meet project requirements to satisfaction of Authority Having Jurisdiction.
Base Sheet: Elastobase (sanded top surface for hot-asphalt or torch-applied cap or poly-film surface for torch-applied cap)
Fasteners: Simplex Original Cap Nails
Spacing: 6-inch o.c. at the 3-inch wide side laps and 6-inch o.c. at four (4) equally spaced staggered center rows.
Underlayment: Elastoflex G TU or Elastoflex S6 G, applied in full mopping of hot asphalt or Polyflex G, torch-applied.

#16
Maximum Design Pressure = -60 psf:
Deck: Min. 15/32-inch plywood to meet project requirements to satisfaction of Authority Having Jurisdiction.
Base Sheet: Elastobase (sanded top surface for hot-asphalt or torch-applied cap or poly-film surface for torch-applied cap)
Fasteners: 11 ga. x 1.25-inch long x 3/8-inch head diameter annular ring shank roofing nails at 1-5/8-inch diameter tin caps
Spacing: 8-inch o.c. at the 4-inch wide side laps and 8-inch o.c. at three (3) equally spaced staggered center rows.
Underlayment: Elastoflex G TU or Elastoflex S6 G, applied in full mopping of hot asphalt or Polyflex G, torch-applied.

#17
Maximum Design Pressure = -60 psf:
Deck: Min. 15/32-inch plywood to meet project requirements to satisfaction of Authority Having Jurisdiction.
Base Sheet: Elastobase (sanded top surface for hot-asphalt or torch-applied cap or poly-film surface for torch-applied cap)
Fasteners: OMG #12 Standard Roofgrip or OMG Flat Bottom Metal Plates
Spacing: 12-inch o.c. at the 4-inch wide side laps and 12-inch o.c. at two (2) equally spaced staggered center rows.
Underlayment: Elastoflex G TU or Elastoflex S6 G, applied in full mopping of hot asphalt or Polyflex G, torch-applied.

#18
Maximum Design Pressure = -67.5 psf:
Deck: Min. 15/32-inch plywood to meet project requirements to satisfaction of Authority Having Jurisdiction.
Base Sheet: Polyglass G2 Base or Polyglass APP Base (requires use of torch-applied underlayment)
Fasteners: 12 ga. x 1.25-inch long x 3/8-inch head diameter annular ring shank roofing nails at 1-5/8-inch diameter tin caps
Spacing: 8-inch o.c. at the 4-inch wide side laps and 8-inch o.c. at four (4) equally spaced staggered center rows.
Underlayment: Elastoflex G TU or Elastoflex S6 G, applied in full mopping of hot asphalt or torch-applied or Polyflex G, torch-applied.

#19
Maximum Design Pressure = -75 psf:
Deck: Min. 15/32-inch plywood to meet project requirements to satisfaction of Authority Having Jurisdiction.
Base Sheet: Polyglass G2 Base or Polyglass APP Base (requires use of torch-applied underlayment)
Fasteners: Dekfast #14 with Dekfast Hex plates, OMG #14 HD with OMG 3" Galvalume Steel Plates, OMG Roofgrip #14 with OMG Flat Bottom Plates (AccuTrac), Trufast HD with Trufast 3-inch Insulation Plates or Simplex MAXX Cap Fasteners
Spacing: 10-inch o.c. at the 4-inch wide side laps and 10-inch o.c. at three (3) equally spaced staggered center rows.
Underlayment: Elastoflex G TU or Elastoflex S6 G, applied in full mopping of hot asphalt or torch-applied or Polyflex G, torch-applied.

#20
Maximum Design Pressure = -90 psf:
Deck: Min. 15/32-inch plywood to meet project requirements to satisfaction of Authority Having Jurisdiction.
Base Sheet: Elastobase (sanded top surface for hot-asphalt or torch-applied cap or poly-film surface for torch-applied cap)
Fasteners: Simplex MAXX Cap Fasteners
Spacing: 6-inch o.c. at the 2-inch wide side laps and 6-inch o.c. at two (2) equally spaced staggered center rows.
Underlayment: Elastoflex G TU or Elastoflex S6 G, applied in full mopping of hot asphalt or Polyflex G, torch-applied.

#21
Maximum Design Pressure = -90 psf:
Deck: Min. 15/32-inch plywood to meet project requirements to satisfaction of Authority Having Jurisdiction.
Base Sheet: Elastobase (sanded top surface for hot-asphalt or torch-applied cap or poly-film surface for torch-applied cap)
Fasteners: OMG #12 Standard Roofgrip or OMG #14 Heavy Duty with OMG 3" Round Metal Plates or OMG Flat Bottom Metal Plates
Spacing: 6-inch o.c. at the 4-inch wide side laps and 6-inch o.c. at three (3) equally spaced staggered center rows.
Underlayment: Elastoflex G TU or Elastoflex S6 G, applied in full mopping of hot asphalt or Polyflex G, torch-applied.

#22
Maximum Design Pressure = -90 psf:
Deck: Min. 15/32-inch plywood to meet project requirements to satisfaction of Authority Having Jurisdiction.
Base Sheet: Elastobase (sanded top surface)
Fasteners: Trufast #12 DP or Trufast #14 HD with Trufast 3" Metal Insulation Plates
Spacing: 6-inch o.c. at the 4-inch wide side laps and 6-inch o.c. at three (3) equally spaced staggered center rows.
Underlayment: Elastoflex G TU or Elastoflex S6 G, applied in full mopping of hot asphalt.
Maximum Design Pressure = -90 psf:
Deck: Min. 15/32-inch plywood to meet project requirements to satisfaction of Authority Having Jurisdiction.
Base Sheet: Polyglass G2 Base or Polyglass APP Base (requires use of torch-applied underlayment)
Fasteners: Dekfast #14 with Dekfast Hex plates, OMG #14 HD with OMG 3" Galvalume Steel Plates, OMG Roofgrip #14 with OMG Flat Bottom Plates (AccuTrac), Trufast HD with Trufast 3-inch Insulation Plates or Simplex MAXX Cap Fasteners
Spacing: 9-inch o.c. at the 4-inch wide side laps and 9-inch o.c. at four (4) equally spaced staggered center rows.
Underlayment: Elastoflex G TU or Elastoflex S6 G, applied in full mopping of hot asphalt or torch-applied or Polyflex G, torch-applied.

Maximum Design Pressure = -97.5 psf:
Deck: Min. 19/32-inch plywood to meet project requirements to satisfaction of Authority Having Jurisdiction.
Base Sheet: Elastobase or Mule-Hide Nail Base (poly-film top surface)
Fasteners: 11 ga. x 1.25-inch x 3/8-inch head diameter annular ring shank roofing nails at 1-5/8-inch diameter tin caps
Spacing: 4-inch o.c. at the 4-inch wide side laps and 4-inch o.c. at four (4) equally spaced staggered center rows.
Base Ply: (Optional) Polystick MTS or Polystick MTS PLUS, self-adhered.

Maximum Design Pressure = -105 psf:
Deck: Min. 15/32-inch plywood to meet project requirements to satisfaction of Authority Having Jurisdiction.
Base Sheet: Elastobase (sanded top surface for hot-asphalt or torch-applied cap or poly-film surface for torch-applied cap)
Fasteners: Simplex MAXX Cap Fasteners
Spacing: 6-inch o.c. at the 2-inch wide side laps and 6-inch o.c. at three (3) equally spaced staggered center rows.
Underlayment: Elastoflex G TU or Elastoflex S6 G, applied in full mopping of hot asphalt or Polyflex G, torch-applied.

Maximum Design Pressure = -112.5 psf:
Deck: Min. 19/32-inch plywood to meet project requirements to satisfaction of Authority Having Jurisdiction.
Base Sheet: Elastobase or Mule-Hide Nail Base (poly-film top surface)
Fasteners: 11 ga. x 1.25-inch x 3/8-inch head diameter annular ring shank roofing nails at 1-5/8-inch diameter tin caps
Spacing: 6-inch o.c. at the 4-inch wide side laps and 6-inch o.c. at four (4) equally spaced staggered center rows.
Base Ply: PG100 or ASTM D41 primer at all tin-caps
Base Ply: Polystick MTS or Polystick MTS PLUS, self-adhered

Maximum Design Pressure = -120 psf:
Deck: Min. 15/32-inch plywood to meet project requirements to satisfaction of Authority Having Jurisdiction.
Base Sheet: Elastobase (sanded top surface for hot-asphalt or torch-applied cap or poly-film surface for torch-applied cap)
Fasteners: OMG #12 Standard Roofgrip or OMG #14 Heavy Duty with OMG 3" Round Metal Plates or OMG Flat Bottom Metal Plates
Spacing: 6-inch o.c. at the 4-inch wide side laps and 6-inch o.c. at five (5) equally spaced staggered center rows.
Underlayment: Elastoflex G TU or Elastoflex S6 G, applied in full mopping of hot asphalt or Polyflex G, torch-applied.

Maximum Design Pressure = -120 psf:
Deck: Min. 15/32-inch plywood to meet project requirements to satisfaction of Authority Having Jurisdiction.
Base Sheet: Elastobase (sanded top surface)
Fasteners: Trufast #12 DP or Trufast #14 HD with Trufast 3" Metal Insulation Plates
Spacing: 6-inch o.c. at the 4-inch wide side laps and 6-inch o.c. at five (5) equally spaced staggered center rows.
Underlayment: Elastoflex G TU or Elastoflex S6 G, applied in full mopping of hot asphalt.

5.6.4.1 All other direct-deck, adhered Polyglass underlayment systems beneath foam-on tile systems carry a Maximum Design Pressure of -45 psf.

6th EDITION (2017) FBC NON-HVHZ EVALUATION
Polyglass Roof Underlayment; (954) 243-1220
NEMO ETC, LLC.
Certificate of Authorization #32452
Evaluation Report P12060.02.09-R24
FLS259-R28
Revision 24: 01/24/2018
Page 10 of 14
5.6.4.2 For mechanically attached Base Sheet, the maximum design pressure for the selected assembly shall meet or exceed that required under FRSA/TRI April 2012 (04-12), Appendix A, Table 1A.

Alternatively, the maximum design pressure for the selected assembly shall meet or exceed the Zone 1 design pressure determined in accordance with FBC 1609. In this case, Zones 2 and 3 shall employ an attachment density designed by a qualified design professional to resist the elevated pressure criteria. Commonly used methods are ANSI/SPRI WD1, FM Loss Prevention Data Sheet 1-29 and Roofing Application Standard RAS 117. Assemblies marked with an asterisk* carry the limitations set forth in Section 2.2.10.1 of FM Loss Prevention Data Sheet 1-29 (January 2016) for Zone 2/3 enhancements.

5.7 Exposure Limitations:
Elastobase, Elastobase P, Polyglass G2 Base or Polyglass APP Base shall not be left exposed for longer than 30-days after installation.
Polystick IR-Xe or Polystick MU-X shall not be left exposed for longer than 90-days after installation.
Polystick MTS, MTS PLUS, TU P, TU Plus, TU Max, Dual Pro, Tile Pro or Elastoflex G TU shall not be left exposed for longer than 180-days after installation.
Polyflex SAP or SAP FR, or Mule-Hide SA-APP Cap Sheet or SA-APP Cap Sheet (FR) does not have an exposure limitation, unless the prepared roof covering is to be adhesive-set tile, in which case the maximum exposure is 30 days.
Elastoflex S6 G or Elastoflex S6 G FR or Polyflex G or Polyflex G FR does not have an exposure limitation, unless the prepared roof covering is to be adhesive-set tile (Elastoflex S6 G or Polyflex G only), in which case the maximum exposure is 180 days.

5.8 Polystick MU-X has been found through comparative testing to have a lesser coefficient of friction than ASTM D226 roofing felt in a dry condition, tested at standard laboratory conditions. Agreement between purchaser and seller, as set forth in Section 4.3, Note 1 of ASTM D1970-15, should be established as to slip resistance.

5.9 Tile Slippage Limitations (FRSA/TRI April 2012 (04-12));
When loading roof tiles on the underlayment in direct-deck tile assemblies, the maximum roof slope shall be as follows. These slope limitations can only be exceeded by using battens during loading of the roof tiles.

<table>
<thead>
<tr>
<th>Underlayment</th>
<th>Tile Profile</th>
<th>Staging Method</th>
<th>Maximum Slope</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elastoflex G TU</td>
<td>Flat</td>
<td>10-tile stack</td>
<td>7:12</td>
</tr>
<tr>
<td></td>
<td>Lugged</td>
<td>8-tile stack (6 over 2)</td>
<td>6:12</td>
</tr>
<tr>
<td>Elastoflex S6 G or S6 G FR</td>
<td>Flat or Lugged</td>
<td>6-tile stack (4 over 2)</td>
<td>4:12</td>
</tr>
<tr>
<td>Polystick MTS or MTS PLUS</td>
<td>Flat</td>
<td>6-tile stack (4 over 2)</td>
<td>5:12</td>
</tr>
<tr>
<td></td>
<td>Lugged</td>
<td>6-tile stack (4 over 2)</td>
<td>4:12</td>
</tr>
<tr>
<td>Polystick Tile Pro</td>
<td>Flat or Lugged</td>
<td>6-tile stack (4 over 2)</td>
<td>7:12</td>
</tr>
<tr>
<td>Polystick TU Max</td>
<td>Flat</td>
<td>6-tile stack (4 over 2) or 10-tile stack</td>
<td>7:12</td>
</tr>
<tr>
<td></td>
<td>Lugged</td>
<td>6-tile stack (4 over 2)</td>
<td>7:12</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10-tile stack</td>
<td>6:12</td>
</tr>
<tr>
<td>Polystick TU P</td>
<td>Flat</td>
<td>6-tile stack (4 over 2)</td>
<td>6:12</td>
</tr>
<tr>
<td></td>
<td>Lugged</td>
<td>6-tile stack (4 over 2)</td>
<td>4:12</td>
</tr>
<tr>
<td>Polystick TU Plus</td>
<td>Flat or Lugged</td>
<td>6-tile stack (4 over 2)</td>
<td>7:12</td>
</tr>
<tr>
<td></td>
<td>Flat or Lugged</td>
<td>10-tile stack</td>
<td>6:12</td>
</tr>
<tr>
<td>Polyflex G or G FR</td>
<td>Flat or Lugged</td>
<td>6-tile stack (4 over 2)</td>
<td>4:12</td>
</tr>
<tr>
<td>Polyflex SA P or SA P FR</td>
<td>Flat or Lugged</td>
<td>6-tile stack (4 over 2)</td>
<td>4:12</td>
</tr>
</tbody>
</table>
6. **INSTALLATION:**

6.1 **Polyglass Roof Underlayments** shall be installed in accordance with *Polyglass* published installation requirements subject to the Limitations set forth in Section 5 herein and the specifics noted below.

6.2 Re-fasten any loose decking panels, and check for protruding nail heads. Sweep the substrate thoroughly to remove any dust and debris prior to application, and prime the substrate (if applicable).

6.3 **Elastobase, Elastobase P or Mule-Hide Nail Base:**

6.3.1 **Non-Tile Applications:**

Shall be installed in compliance with the codified requirements for ASTM D226, Type II underlayment in FBC Table 1507.1.1 for the type of prepared roof covering to be installed.

Elastobase, Elastobase P or Mule-Hide Nail Base may be covered with a layer of Polystick, Polyflex SAP, Polyflex SAP FR, Mule-Hide SA-APP Cap Sheet or SA-APP Cap Sheet (FR), self-adhered, Elastoflex G TU, Elastoflex S6 G or Elastoflex S6 G FR in hot asphalt or Polyflex G or Polyflex G FR, torch applied. Roof cover limitations are those associated with the top-layer underlayment, as set forth in Table 1.

6.3.2 **Tile Applications:**

Elastobase, Elastobase P or Mule-Hide Nail Base are limited to use as a mechanically attached base sheet in the “Two Ply System” from FRSA/TRI April 2012 (04-12). Reference is made to Table 1 and Section 5.6.4 herein, coupled with FRSA/TRI April 2012 (04-12) Installation Manual.

6.4 **Polystick MTS, MTS PLUS, IR-Xe, TU P, TU Plus, TU Max, Dual Pro, Tile Pro or MU-X or Polyflex SAP, Polyflex SAP FR, Mule-Hide SA-APP Cap Sheet or Mule-Hide SA-APP Cap Sheet (FR):**

6.4.1 Shall be installed in compliance with the codified requirements for ASTM D1970 (except Polystick TU P) underlayment in FBC Table 1507.1.1 for the type of prepared roof covering to be installed.

6.4.2 **Direct-to-Deck with Mechanically Fastened Roof Covers:**

All self-adhering materials, with the exception of Polystick TU Plus, Polyflex SAP or SAP FR and Mule-Hide SA-APP Cap Sheet or SA-APP Cap Sheet (FR) should be back-nailed in selvage edge seam in accordance with Polyglass / Mule-Hide back nailing guidelines. Nails shall be corrosion resistant, 11 gauge ring-shank type with a minimum 1-inch diameter metal disk or Simplex-type metal cap nail, at a minimum rate of 12" o.c. Polystick TU Plus should be back-nailed using the above noted fasteners and spacing, in area marked “nail area, area para clavar” on the face of membrane. The head lap membrane is to cover the area being back-nailed.

All seal-lap seams (selvage laps) must be firmly rolled with a minimum 28 lb. hand roller to ensure full contact and adhesion. For Dual Pro and Tile Pro, align the edge of the top sheet to the end of the glue pattern (the sheet will overlap the fabric).

![View of Overlap Seam of Dual Pro and Tile Pro](image)

All over-fabric and over-granule end-laps shall have a 6-inch wide, uniform layer of Polyplus 50 Premium Modified Wet/Dry Cement or Polyglass PG500 Modified Cement applied in between the application of the lap. Polystick TU Plus, Dual Pro and Tile Pro may not be used in any exposed application such as crickets, exposed valleys, or exposed roof to wall details.
Repair of Polystick membranes is to be accomplished by applying Polyplus 50 Premium Modified Wet/Dry Cement or Polyglass PG500 Modified Cement to the area in need of repair, followed by a minimum 6 x 6 inch patch of the Polystick material of like kind, set and hand rolled in place over the repair area. Patch laps, if needed, shall be installed in a water shedding manner.

All Polystick membranes shall be installed to ensure full contact with approved substrates. Polyglass requires a minimum of 40-lb weighted-roller or, on steep slopes, use of a stiff broom with approximately 40-lbs of load applied for the field membrane. Hand rollers are acceptable for rolling of patches, laps (min. 28 lb roller) or small areas of the roof that are not accessible to a large roller or broom.

6.4.3 Tile Applications (not allowed for Polystick Dual Pro, IR-Xe or Polystick MU-X):
Reference is made to FRSA/TRI April 2012 (04-12) Installation Manual and Table 1 herein, using the instructions noted above as a guideline.
For mechanically fastened tile roofing over 2-ply system, consisting of Base Sheet and self-adhering top sheet(s), Base Sheet fastening shall be not less than FRSA/TRI April 2012 (04-12), Table 1.
For adhesive-set tile applications, refer to Section 5.6.4 herein.

6.4.4 Two (2) Ply Underlayment Systems:
Polystick MTS or MTS PLUS followed by Polystick MTS, MTS PLUS, TU P, TU Plus, TU Max, Tile Pro, MU-X or Polyflex SAP is allowable for use under mechanically attached prepared roof systems. Limits of use are those associated with the top-layer material. This is not a requirement, but is allowable if a 2-ply underlayment system is desired.
Polystick MTS or MTS PLUS followed by Polystick TU P, TU Plus, TU Max, Tile Pro or Polyflex SAP is allowable for use under foam-on tile systems. Limits of use are those associated with the top-layer material. This is not a requirement, but is allowable if a 2-ply underlayment system is desired.

6.5 Elastoflex G TU, Elastoflex S6 G or Elastoflex S6 G FR:
6.5.1 Elastoflex G TU, Elastoflex S6 G or Elastoflex S6 G FR shall be installed in compliance with current Polyglass published installation requirements. For use in tile applications:
H Elastoflex G TU is for use as an alternate to “Mineral Surface Roll Roofing” (ASTM D6380, Class M) in the “Single Ply System” from FRSA/TRI April 2012 (04-12) beneath mechanically fastened tile roof systems or the Hot Asphalt applied “Cap Sheet” in the “Two Ply System” from FRSA/TRI April 2012 (04-12) beneath mechanically fastened or adhered tile roof systems.
H Elastoflex S6 G is for use as an alternate to “Mineral Surface Roll Roofing” (ASTM D6380, Class M) in the “Single Ply System” from FRSA/TRI April 2012 (04-12) beneath mechanically fastened tile roof systems or the Hot Asphalt applied “Cap Sheet” in the “Two Ply System” from FRSA/TRI April 2012 (04-12) beneath mechanically fastened or adhered tile roof systems.
H Elastoflex S6 G FR is for use as an alternate to “Mineral Surface Roll Roofing” (ASTM D6380, Class M) in the “Single Ply System” from FRSA/TRI April 2012 (04-12) beneath mechanically fastened tile roof systems or the Hot Asphalt applied “Cap Sheet” in the “Two Ply System” from FRSA/TRI April 2012 (04-12) beneath mechanically fastened tile roof systems.

6.5.2 For hot-asphalt-applications, Elastoflex G TU, Elastoflex S6 G or Elastoflex S6 G FR shall be fully asphalt-applied to the substrates noted in Section 5.6. Side laps shall be minimum 3-inch and end-laps minimum 6-inch wide, off-set minimum 3 feet from course to course. Side and end laps shall be fully adhered in a complete mopping of hot asphalt with asphalt extending approximately 3/8-inch beyond the lap edge.

6.6 Polyflex G or Polyflex G FR:
6.6.1 Polyflex G or Polyflex G FR shall be installed in compliance with current Polyglass published installation requirements. For use in tile applications:
H Polyflex G is for use as an alternate to the Heat Applied “Cap Sheet” in the “Two Ply System” from FRSA/TRI April 2012 (04-12) beneath mechanically fastened or adhered tile roof systems (Base Sheet Limited per 5.6.3).
H Polyflex G FR is for use as an alternate to the Heat Applied “Cap Sheet” in the “Two Ply System” from FRSA/TRI April 2012 (04-12) beneath mechanically fastened tile roof systems (Base Sheet Limited per 5.6.3).
6.6.2 Polyflex G or Polyflex G FR shall be fully torch-applied to the substrates noted in Section 5.6. Side laps shall be minimum 3-inch and end-laps minimum 6-inch wide, off-set minimum 3 feet from course to course. Side and end laps shall be fully heat-welded and inspected to ensure minimum 3/8-inch flow of modified compound beyond the lap edge.

6.7 Tile Staging:
6.7.1 Tile shall be loaded and staged in a manner that prevents tile slippage and/or damage to the underlayment. Refer to Table 2 herein, and Polyglass published requirements for tile staging.
6.7.2 Battens and/or Counter-battens, as required by the tile manufacturer and FRSA/TRI April 2012 (04-12) must be used on all roof slopes greater than 7:12. Precautions should be taken as needed, such as the use of battens or nailboards, to prevent tile sliding and/or damage to the underlayment during the loading process.
6.7.3 Polyglass specifies the minimum cure time after installation of self-adhering membranes and before loading of roofing tiles is forty-eight (48) hours.

7. BUILDING PERMIT REQUIREMENTS:
As required by the Building Official or Authority Having Jurisdiction in order to properly evaluate the installation of this product.

8. MANUFACTURING PLANTS:
Contact the noted QA agency for information on product locations covered for F.A.C. 61G20-3 QA requirements. The following plants have qualified products under their respective physical properties specifications.

<table>
<thead>
<tr>
<th>Plant</th>
<th>Specification</th>
<th>Product(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fernley, NV, Hazleton, PA &amp; Winter Haven, FL</td>
<td>ASTM D1970</td>
<td>Polystick MU-X</td>
</tr>
<tr>
<td>Hazleton, PA</td>
<td>M-D 13-0004</td>
<td>Elastoflex G TU</td>
</tr>
<tr>
<td>Hazleton, PA &amp; Winter Haven, FL</td>
<td>ASTM D1970</td>
<td>Polystick IR-X</td>
</tr>
<tr>
<td></td>
<td>ASTM D1970 &amp; FRSA/TRI April 2012</td>
<td>Polystick TU Plus</td>
</tr>
<tr>
<td>Tuscaloosa, AL</td>
<td>ASTM D4601, Type II</td>
<td>Polyglass G2 Base</td>
</tr>
<tr>
<td></td>
<td>ASTM D226 (physicals)</td>
<td>Elastobase, Elastobase P</td>
</tr>
<tr>
<td></td>
<td>ASTM D6509</td>
<td>Polyglass APP Base</td>
</tr>
<tr>
<td></td>
<td>FRSA/TRI April 2012</td>
<td>Polystick MTS, Polystick MTS PLUS</td>
</tr>
<tr>
<td>Winter Haven, FL</td>
<td>FRSA/TRI April 2012</td>
<td>Polystick TU P</td>
</tr>
<tr>
<td></td>
<td>FRSA/TRI April 2012</td>
<td>Polystick SAP, Polystick SA SW FR</td>
</tr>
<tr>
<td></td>
<td>ASTM D1970</td>
<td>Polystick Dual Pro</td>
</tr>
<tr>
<td></td>
<td>ASTM D1970 &amp; FRSA/TRI April 2012</td>
<td>Polystick Tile Pro</td>
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<tr>
<td></td>
<td>ASTM D6164</td>
<td>Elastoflex S6, Elastoflex S6 G FR</td>
</tr>
<tr>
<td></td>
<td>ASTM D6222</td>
<td>Polyflex G, Polyflex G FR</td>
</tr>
</tbody>
</table>

9. QUALITY ASSURANCE ENTITY:
UL, LLC – QUA9625; (314) 578-3406; k.chancellor@us.ul.com

- END OF EVALUATION REPORT -
The GulfLok™ panel is one of our most popular and cost-effective standing seam solutions. It is the panel of choice among most roofing contractors for standing seam projects.

Featuring a 1” seam with a slotted screw strip on the under-lap side for concealed fasteners, the GulfLok™ panel is both aesthetically pleasing and structurally sound. It can be roll-formed on site in custom lengths to fit almost any project.

*All measurements are nominal and can vary according to FL Building Code.
VENTED RIDGE SYSTEM

Maintain cooler attic temperatures effectively reducing energy costs.

SEAL UNSIGHTLY ROOF PENETRATIONS

• Ask about color selection

COLOR MATCH PIPE BOOTS

Seal unsightly roof penetrations.
• Ask about color selection

WEATHER-ARMOR® HT³ UNDERLAYMENT

• 100% Waterproof and Nail Sealable
• UL Classified for Protection Against Fire Damage
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TITEBOND® METAL ROOF SEALANT

• Exceptional Adhesion
• Permanently Flexible

VELUX® SKYLIGHTS

Replace traditional skylights with energy efficient metal roof skylights.

GULFLOK™

PROFILE SPECIFICATIONS

Colors: 40+ Colors & Mill Finish Available
Coverage: 12” & 16” Net Coverage
Material: 26 & 24 Gauge Steel, 0.032 & 0.040 Aluminum*
Substrate/Warranty:
AZ-50 / 35/30 Year Premium Paint Finish Warranty
AZ-50 / 40/30 Year Standard Paint Finish Warranty
AZ-55 / 25 Year Unpainted Mill Finish Warranty
25 Year OceanGuard™ Salt Water Warranty*
Approvals: Miami-Dade NOA: 14-0520.03
FL Product Approval No. 11651.2, 11651.9, 11651.15, 11651.16
Min. Slope: 3:12 FOR APPLICATIONS ON LOWER SLOPES, CONTACT MANUFACTURER
Substructure: 15/32” (min.) Plywood

*Available options for OceanGuard™ Coastal Aluminum Roofing Series

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GC-SS-GL-0119-V4

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PROFILE GUIDE

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GULFLOK™
A fast-tracking, snap-lock panel with ribbed slats, this clipless, snap-lock system perfect for residential and light commercial applications.

12” and 18” Coverage

5V CRIMP™
GulfCoast’s patented 5V Crimp allows for a high-end look and feel of a classic long rib profile. The panels are designed for a high pitch roof and are perfect for residential and commercial applications.

“V” Style Crimp

MEGALOC™
With an ultra-strong 3/4” rib height, this mechanically-seamed system can be installed over decking or open framing.

15” – 18” Coverage

VERSALOC™
Available in a variety of metal types and in a 3/4” rib height. This versatile, mechanically-seamed panel is perfect for many commercial and architectural applications.

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EXPOSED SCREWS

GULFRIB™
Round strong end and ease of installation make this exposed fastener panel a top choice for many residential and agricultural applications.

GULFSEAM™
A bold, 3/4” rib offers architectural distinction on this snap-lock system.

GULF WAVE™
Ride the wave of architectural distinction with this 3/4” high rolling rib exposed fastener panel.

29” Coverage

GULF PBR™
Strength and durability make this exposed fastener panel a top choice for many commercial and residential applications.

36” Coverage

GULF LOK™
An integrated screw flange makes this clipless, snap-lock system perfect for residential and light commercial applications.

8” and 16” Coverage

COASTAL ALUMINUM ROOFING
888.393.0335
www.GulfCoastSupply.com

ROOFING GUIDE
A COMPLETE SELECTION OF AVAILABLE COLORS AND PROFILE OPTIONS

SUN, RAIN, OR SALT... WE’VE GOT YOU COVERED!

OceanGuard®
With our OceanGuard Aluminum Roofing Series you will enjoy a 20 Year Salt Water Warranty right on the beach!

We

PVDF Resin Technology

KYNAR 500®
PAINT FINISHES

PROOF MY ROOF®
METAL ROOF COLOR VISUALIZER

Notice the differences shown are for illustrative purposes only. Request a metal sample to view exact color.

Pick your favorites and share them with family and friends!

For more information visit www.ProofMyRoof.com

PROOF MY ROOF®
METAL ROOF COLOR VISUALIZER

UPLOAD Your Roof Photo TODAY!...

www.ProofMyRoof.com

ProofMyRoof™ is the Roofing Industry’s #1 Color Visualizer. Upload your photo today to see YOUR HOME in all our metal roofing options. Switch between all of our profiles in over 40 colors on your fully customizable roofing dashboard. Pick your favorites and share them with family and friends!

CONTEST

MIXED MEDIA CONTEST

Take The FADE TEST CHALLENGE

www.EverythingElseFades.com

Notice the difference! After just 10 years in Florida’s sun...

KYNAR 500® METAL ROOF PAINT FINISHES

• SUPERIOR UV PROTECTION
• PREMIUM WEATHERABILITY
• MILDWEAR RESISTIVE FINISH
• UNMATCHED COLOR RETENTION

Age gracefully with...

KYNAR 500® METALLIC PAINT FINISHES

Mill Finish
UNPAINTED FINISH
Burgundy
Light Gray
Charcoal Gray
Black

Copper
Coca
Napa Champagne
Nevada Silver
Pre-Weathered

Pre-Weathered

Regal Red
Napa Champagne
Nevada Silver
Pre-Weathered

TECHNOLOGY

STEEL METAL ROOFING

Gulf Coast Supply & Manufacturing

www.GulfCoastSupply.com
Appendix B:
Maps of Subject Property
Community Planning and Preservation Commission

809 Prospect Court South

AREA TO BE APPROVED, SHOWN IN

CASE NUMBER
19-90200005
Community Planning and Preservation Commission

809 Prospect Court South

AREA TO BE APPROVED, CASE NUMBER
SHOWN IN 19-90200005

SCALE: 1" = 115'