



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 1 ST 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.



Figure 1: GulfLok panel detail from product brochure



Figure 2: Image of proposed roof color, Kynar Pre-Weathered

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

² “Ban on Wooden Roofs Remains,” *St. Petersburg Times*, November 6, 1921; Thomas C. Jester, ed., *Twentieth-Century Building Materials*, (Washington, D.C.: Archetype Press, 1995), 251.

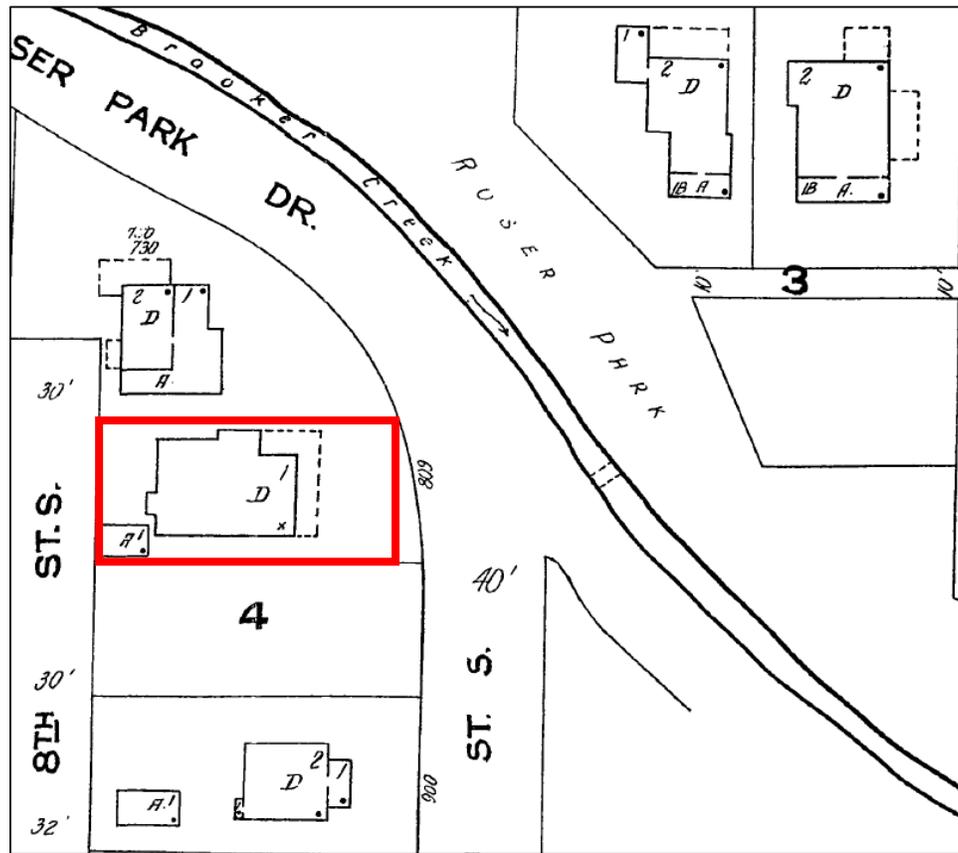


Figure 3: Portion of 1923 Sanborn Map Company map of St. Petersburg, Florida, depicting subject property. An X indicates wood shingle roof surface; a filled-in circle indicates composition surface, which was likely generally asphalt and asbestos shingle.

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



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.



Figure 4: Façade of 809 Prospect Court South, December 2018 image via Google Street View



Figure 5: Rear (8th Street South) elevation, March 2011 image via Google Street View

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.

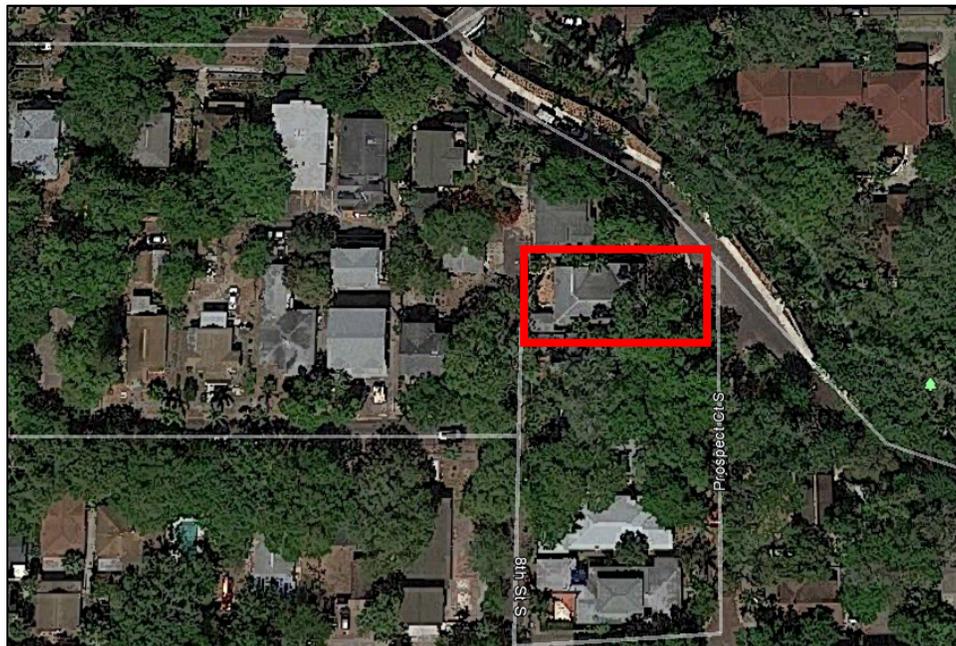


Figure 6: Google Earth Aerial dated March 15, 2018



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.

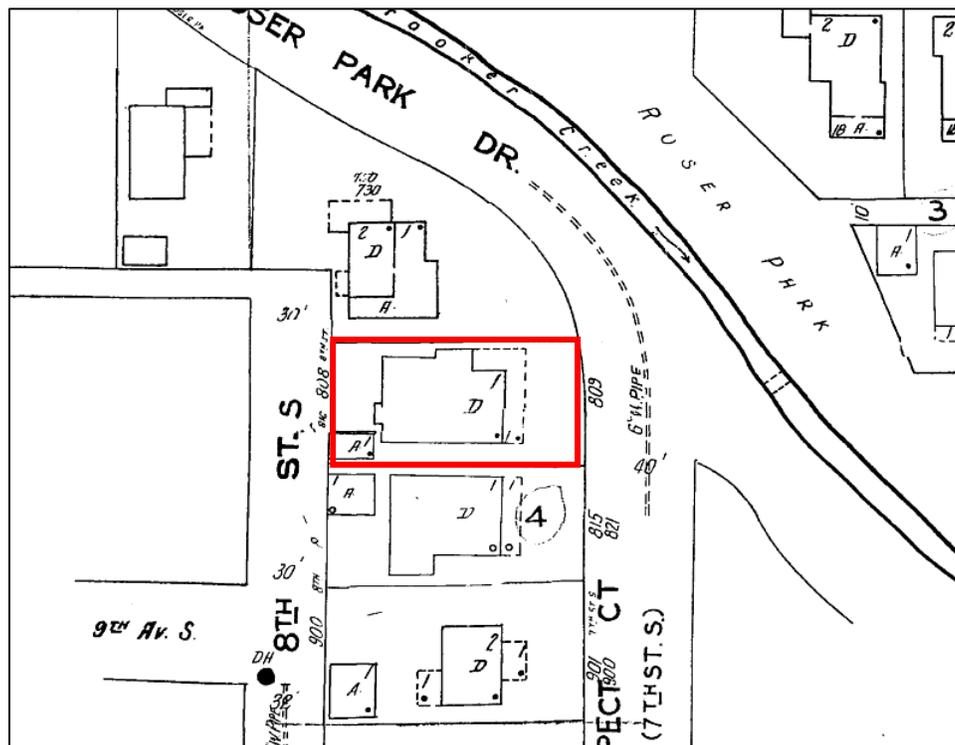


Figure 8: Section of 1951 Sanborn Map showing subject property with composition roof.

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

³ City of St. Petersburg, Property Card for 809 Prospect Court South, On file, City of St. Petersburg; "Aluminum-Lock Shingles," *St. Petersburg Times*, February 25, 1958.

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.

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 a 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

"Aluminum-Lock Shingles." *St. Petersburg Times*. February 25, 1958. Accessed via newspapers.com.

"Ban on Wooden Roofs Remains." *St. Petersburg Times*. November 6, 1921. Accessed via newspapers.com.

City of St. Petersburg. *Design Guidelines for Historic Properties*. 2017. On file, City of St. Petersburg.

City of St. Petersburg. Minutes from CPPC Meeting of July 11, 2018. On file, City of St. Petersburg.

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

Jester, Thomas C., ed. *Twentieth-Century Building Materials: History and Conservation*. Washington, D.C.: Archetype Press. 1995.

Appendix A:

Application No. 19-90200005



CERTIFICATE OF APPROPRIATENESS

Application No. 19-9020005
Adm 2-15-19.
April CPP.

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.

GENERAL INFORMATION

NAME of APPLICANT (Property Owner):	<i>Stephanie Smart.</i>
Street Address:	<i>809 Prospect Ct. South</i>
City, State, Zip:	<i>St. Petersburg FL 33701</i>
Telephone No:	
Email Address:	
NAME of AGENT or REPRESENTATIVE:	<i>Arry's Roofing Svc. James Hush.</i>
Street Address:	<i>401 E. Spruce St.</i>
City, State, Zip:	<i>Tarpon Springs FL 34689.</i>
Telephone No:	<i>727 938-9305</i>
Email Address:	<i>ecrcat@arrysroofing.com</i>
PROPERTY INFORMATION:	
Street Address:	<i>809 Prospect Ct. S.</i>
Parcel ID or Tract Number:	<i>30-31-17-76986-000-0020</i>
General Location:	<i>Roser Park Historic Dist.</i>
Designation Number:	<i>87-10</i>

AUTHORIZATION

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.

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: *James Hush* 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: _____

Type of Request

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

Proposed Use

- 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

T/O shingle roof, re-nail deck to code, dry in with Polyglass MTS (FL5259). Install Gulfcoast GULFLOK metal roof system (FL11051-9). 3/4, 5/12, 1 story.



st.petersburg
www.stpete.org

CERTIFICATE OF APPROPRIATENESS

NARRATIVE (PAGE 2 OF 2)

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



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www.stpete.org

Application # 18-11000788

Flood Zone E

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

WWP:

Date of application:	Affordable Housing Eligible: <input type="checkbox"/> Yes
PROJECT SITE: <u>809 Prospect Ct S</u>	PROPERTY OWNER:
Project or Tenant:	Name: <u>Stephanie Smart</u>
Address: <u>809 Prospect Ct. S</u>	Address: <u>809 Prospect Ct. S</u> Unit #:
Unit #:	City, State, Zip: <u>St. Petersburg FL 33701</u>
PIN:	Phone: _____ Email: _____

CONTRACTOR:

Company: Arry's Roofing Svc Inc

Name: James Housh

Contractor's License #: CC1326986 Email: ecroat@arrysroofing.com

Phone: 727-938-9565 Cell: _____ Fax: _____

ARCHITECT / ENGINEER:

Company: _____

Name: _____

State License #: _____ Email: _____

Phone: _____ Cell: _____ Fax: _____

AFFIDAVIT: Application is hereby made to obtain a permit 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>

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.
Link: <http://floridabuilding2.iccsafe.org/>

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.
Link: <http://floridabuilding2.iccsafe.org/>

OWNER/CONTRACTOR DISCLOSURE STATEMENT: Owner must appear in person and sign Disclosure Statement in addition to this permit application. [Link to Disclosure Statement Document](#)

All work shall comply with the applicable Florida Building Code

James Housh _____ Date 11/13/18
Applicant Print Name Applicant Signature

Permit Technician (or) Notary Date 11/13/18

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



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://floridabuilding2.iccsafe.org/>*

- | | | | |
|--------------------------------------|--|--|---|
| <input type="checkbox"/> Assembly | <input type="checkbox"/> Business | <input type="checkbox"/> Educational | <input type="checkbox"/> Factory & Industrial |
| <input type="checkbox"/> High Hazard | <input type="checkbox"/> Institutional | <input type="checkbox"/> Mercantile | <input checked="" type="checkbox"/> Residential |
| <input type="checkbox"/> Storage | <input type="checkbox"/> Day Care | <input type="checkbox"/> 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:

T/o shingle roof, re-nail deck to code, dry in with Polyglass mts (FL5259) install Gulf Coast Gulf Lok metal roof system (FL11651.9). 31/4", 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 Encl. _____ S.F.

Other _____

Fire \$ _____ value

Fire Alarm _____

Fire Sprinkler _____ type

Fire Suppression _____

Fire Separation _____ hrs

Other _____

Gas \$ _____ value

New _____

Replacement _____

Natural _____

Propane _____

Equipment _____

Piping ft. _____

Venting ft. _____

Tank _____ size

Type of tank _____

Water heater _____

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 _____

FEMA Information

Flood Zone _____

Required Elevation _____

Lowest Finished Floor _____

RCD Value _____

Maximum Improvement _____

*Municode Ch. 16.40.050 Link:
http://library.municode.com/HTML/11602/level3/PTIISTPECO_CH16LADERE_S16.40.050FLMA.html*

Total Estimated Construction Value: \$ 0 34,207.

Applicant Initial CH

CS&P Use Only

C.O. Required: _____ YES _____ NO

Flood Zone: _____

Design Flood Elevation (including freeboard): _____

Florida Building Code Edition: _____

Occupancy Group: _____

Occupancy Type: _____

Construction Type: _____

Design Occupant Load: _____

Number of Units: _____

Fire Sprinkler: _____ YES _____ NO

Fire Alarm: _____ YES _____ NO

Square Foot: Altered/Additional: _____

Threshold Building: _____ YES _____ NO

Sewer Connection New: _____

Sewer Connection Credits: _____

Sewer Connection Due: _____

Certificate of Concurrency: _____

TIF District Zone: _____

Plan Reviewer: _____

(Print Name)

PERMIT APPLICATION

Zoning Use Only

Zoning District: _____

Approved for: _____

Setbacks per Approved Plan				
Structure				
Front				
Left				
Right				
Rear				

OFC/ 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)

Permit Number
Parcel ID Number 30-31-17-76986-000-0020

NOTICE OF COMMENCEMENT

State of Florida
County of Pinellas

THIS AREA IS RESERVED FOR CLERK OF THE COURT CERTIFICATION

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): Rose Park 1st add Lot 2

a) Street (job) Address: 509 PROSPECT CT S, ST PETERSBURG, FL 33701

2. General description of improvements: NEW METAL ROOF
RE-ROOF

3. Owner information or Lessee information if the Lessee contracted for the improvement:

a) Name and address: STEPHANIE M. SMART

b) Name and address of fee simple titleholder (if different than Owner listed above) N/A

c) Interest in property: OWNER

4. Contractor information

a) Name and address: Ary's Roofing Services Inc. - James Housh 401 E Spruce Street, Tarpon Springs, FL 34689

b) Telephone No.: 727-838-8885 Fax No.: (optional)

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

a) Name and address:

b) Telephone No.:

c) Amount of Bond: \$

6. Lender

a) Name and address:

b) Telephone No.:

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:

a) Name and address:

b) Telephone No.:

8. In addition to himself or herself, Owner designates _____ of _____

to receive a copy of the Lessor's Notice as provided in Section 713.13 (1) (b), Florida Statutes.

b) Phone Number of Person or entity designated by Owner:

8. Expiration date of notice of commencement (the expiration date may not be before the completion of construction and final payment to the contractor, but will be 1 year from the date of recording unless a different date is specified): 20

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 OR 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 M. Smart (Print Name and Print Signature) STEPHANIE M. SMART (Print Name and Print Signature)

The foregoing instrument was acknowledged before me this 22 day of OCTOBER 2018 by Stephanie Smart as Owner (Type of capacity, e.g. officer, trustee, attorney in fact)

for _____ (Name of party on behalf of whom instrument was executed)

Notary Signature Emily J. Croat
Print name Emily J. Croat

RP-181868



AFFIDAVIT

Permit Number: _____ Tax Folio Number: _____

Property Address: 809 Prospect Ct. S.

STATE OF FLORIDA
COUNTY OF Pinellas

Before me, the undersigned authority, duly authorized to take acknowledgments and administer oaths, personally appeared James Housh, (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 Pinellas 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: James Housh
Print Name: James Housh

Sworn to and subscribed before me on this 13 day of Nov, 2018
by James Housh, who is personally known to me or has produced _____ as identification.

Notary Public Signature: Emily J. Croat

Print Name: Emily J. Croat

My Commission Expires: 4/6/21





The Bay Area's Premier Roofing Professionals

STATE #CCC1326986 • www.ArrysRoofing.com
401 East Spruce Street • Tarpon Springs, FL 34689
Phone (727) 938-9565 • Fax (727) 934-6793

METAL CONTRACT FORM
ARRY'S PREMIER SYSTEM



RP.181868

Please read ON in regards to address for trucks.

RESIDENTIAL • COMMERCIAL • NEW CONSTRUCTION • RE-ROOFING • MAINTENANCE — Avoid Mistakes... Protect Your Investment... Trust Experience!

Date: October 2, 2018
Name: Stephanic Smart
Address: 809 Prospect Court South
City: Saint Petersburg, FL 33701
Phone: Mobile (202) 487-7432 lecycliste@me.com ← Tom Schmidt
Job Location: Same as Above 703-677-6015

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

use
808 8th Street South
for truck access ★

We hereby submit specifications and estimates for: ssmart22@gmail.com

RECEIVED OCT 2 5 2018

1. SUBMITTALS
 - A. When applicable, submit copies of manufacturer product data sheets, detail drawings, recommended installation procedures conforming Product Approvals 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, sealants, interfaces with all materials not supplied by the metal roofing system manufacturer and proposed identification of components parts 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: Installer must be approved for installation of all roofing products to be installed under this section. All installers have been 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), and 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 Shingle roofing down to the roof deck. Any additional roofing layers discovered will be an additional charge of \$ 50.00 per layer, 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 nail roof deck as per current Florida 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 upslope side of all chimneys wider than 24" and/or on all roofs steeper than 6/12 pitch.
 - 4) Clean and dispose of all roofing debris from rooftop and ground premises, protecting the original condition of the yard, driveways, and landscaping.
 - B. INSTALLATION OF UNDERLAYMENTS
 - 1) Dry-in roof with Polyglass MTS (Highest Quality) single ply, Self-Adhered Underlayment system directly to the compatible deck, which serves as a "secondary water barrier" (the primary water barrier will be the metal and flashing system).
 - 2) Install eaves edge (drip edge) metal flashing tight with fascia boards; lap joints 4 inches and 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 application method. Match color of perimeter flashings to the metal system being installed.
 - 3) Pre-formed ribbed 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 that promotes leaks.
 - 4) All penetrations and other 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 and 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 ASCE-7, 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 cutting of panels, trim, and/or flashing shall be accomplished by hand or electric shears. At no time shall a hot/friction 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., H.U.D. 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: 40 Ft 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.
6. 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.



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METAL CONTRACT FORM
 ARRY'S PREMIER SYSTEM

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Name: Stephanie Smart

Metal System #1 - Manufacturer: Gulf Coast Supply
 Style: 24Ga 1" Gulf Lok 16" Striated Panel Color: Kynar - Pre-weathered Galvalume 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: \$ 25,835.00

Options:

#1 - Attic Insulation Upgrade
 (Add Owens-Corning Insulation during roofing project) • Install Insulation with R-Value of 38 Subtotal Price: \$ _____
 This option can provide significant tax credit and an ongoing average savings of 20% on your monthly energy bill. • Install Insulation with R-Value of 49 Subtotal Price: \$ _____
 • Install Insulation with R-Value of 60 Subtotal Price: \$ _____

#2 - Guttering Upgrade - Install Rain Removal Systems, Guttering & Downspouts for Your Home Subtotal Price: \$ _____

#3 - Chimney Cap Upgrade - DOES NOT INCLUDE TERMINATION VENT CAP • Galvanized Chimney Cap Subtotal Price: \$ _____
 (Custom built, streamlined & non-ponding cap.) • Stainless Steel Chimney Cap Subtotal Price: \$ _____

#4 - Maintenance Program (See Maintenance Program Addendum for details.) Subtotal Price: \$ _____

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:		\$ <u>34,745.00</u>	(Initial) _____
Additional Option(s) specified above:	Coupon	\$ - 538.00	(Initial) _____
		\$ _____	(Initial) _____
		\$ _____	(Initial) _____
		\$ _____	(Initial) _____
		\$ _____	(Initial) _____
		\$ _____	(Initial) _____

TOTAL CONTRACT PRICE: \$ 34,207.00

NOTE: The roofing industry is currently experiencing extreme price volatility in asphalt related products. Because firm prices cannot be obtained from suppliers, prices are subject to change. If there is an increase in the price of asphalt related products, charge to the Contractor subsequent to making this Contract, the Contract shall be increased to reflect the additional cost to the Contractor, upon submittal of written documentation thereof.

Digitally Signed by Ronald E. Proulx
 DN: cn=Ronald E. Proulx, o=Arrys Roofing, email=rproulx@arrysroofing.com, c=US
 Date: 2018.10.22 17:38:07 -0400

Estimator - Arry's Roofing Services, Inc. / Date

Stephanie Smart 22 Oct 2018
 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.

FLORIDA DEPARTMENT OF
Business & Professional Regulation




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Product Approval
 USER: Public User

Product Approval Menu > Product or Application Search > Application List > Application Detail

OFFICE OF THE SECRETARY

FL #	FL5259-R28								
Application Type	Revision								
Code Version	2017								
Application Status	Approved								
Comments									
Archived									
Product Manufacturer	POLYGLASS USA								
Address/Phone/Email	1111 W. Newport Center Drive Deerfield Beach, FL 33442 (954) 233-1378 Ext 242 alender@polyglass.com								
Authorized Signature	Ariel Lender alender@polyglass.com								
Technical Representative	Maury Alpert								
Address/Phone/Email	1111 W. Newport Center Drive Deerfield Beach, FL 33442 (912) 429-8610 MAIpert@polyglass.com								
Quality Assurance Representative	Ariel Lender								
Address/Phone/Email	1111 W. Newport Center Drive Deerfield Beach, FL 33442 (954) 233-1230 ALender@polyglass.com								
Category	Roofing								
Subcategory	Underlayments								
Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer Evaluation Report - Hardcopy Received								
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. Knezevich, PE Validation Checklist - Hardcopy Received								
Certificate of Independence	FL5259_R28_COI_2018_01_COI_NIEMINEN.pdf								
Referenced Standard and Year (of Standard)	<table border="0"> <thead> <tr> <th><u>Standard</u></th> <th><u>Year</u></th> </tr> </thead> <tbody> <tr> <td>ASTM D1970</td> <td>2015</td> </tr> <tr> <td>ASTM D226</td> <td>2009</td> </tr> <tr> <td>ASTM D4798</td> <td>2011</td> </tr> </tbody> </table>	<u>Standard</u>	<u>Year</u>	ASTM D1970	2015	ASTM D226	2009	ASTM D4798	2011
<u>Standard</u>	<u>Year</u>								
ASTM D1970	2015								
ASTM D226	2009								
ASTM D4798	2011								

ASTM D6164	2011
ASTM D6222	2011
FM 4474	2011
FRSA/TRI April 2012	2012
UL 1897	2012

Equivalence of Product Standards Certified By

Sections from the Code

Product Approval Method Method 1 Option D

Date Submitted 01/24/2018
 Date Validated 01/29/2018
 Date Pending FBC Approval 01/30/2018
 Date Approved 04/10/2018

Summary of Products

FL #	Model, Number or Name	Description
5259.1	Polyglass Roof Underlayments	Roofing underlayments
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: +N/A/-622.5 Other: 1.) The design pressure in this application relates to one particular underlayment system (over concrete deck) for use under foam-on tile systems (where the underlayment 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 FL5259_R28_II_2018_01_FINAL_ER_POLYGLASS_UNDERLAYMENTS_FL5259-R28.pdf Verified By: Robert Nieminen PE-59166 Created by Independent Third Party: Yes Evaluation Reports FL5259_R28_AE_2018_01_FINAL_ER_POLYGLASS_UNDERLAYMENTS_FL5259-R28.pdf Created by Independent Third Party: Yes

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EVALUATION REPORT

Polyglass USA, Inc.

1111 West Newport Center Drive

Deerfield Beach, FL 33442

(954) 233-1230

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 Nieminen, 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 Nieminen, 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. Nieminen, P.E.

Florida Registration No. 59166, Florida DCA ANE1983



The facsimile seal appearing was authorized by Robert Nieminen, P.E. on 01/24/2018. This does not serve as an electronically signed document.

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 Nieminen, 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 Nieminen, 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 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.

ROOFING COMPONENT EVALUATION:
1. SCOPE:

Product Category: Roofing
Sub-Category: Underlayment

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:

<u>Section</u>	<u>Property</u>	<u>Standard</u>	<u>Year</u>
1504.3.1	Wind Uplift	FM 4474	2011
1504.3.1	Wind Uplift	UL 1897	2012
1507.2.3 / 1507.1.1	Physical Properties	ASTM D226	2009
1507.2.4 / 1507.1.1, 1507.2.9.2	Physical Properties	ASTM D1970	2015
1507.3.3	Physical Properties	FRSA/TRI April 2012	2012
1507.11.2	Physical Properties	ASTM D6164	2011
1507.11.2	Physical Properties	ASTM D6222	2011
TAS 110	Accelerated Weathering	ASTM D4798	2011

3. REFERENCES:

<u>Entity</u>	<u>Examination</u>	<u>Reference</u>	<u>Date</u>
FM Approvals (TST 1867)	Wind Uplift	3004091	01/12/2000
PRI (TST 5878)	Physical Properties	PRI01111	04/08/2002
PRI (TST 5878)	Physical Properties	PUSA-005-02-01	01/31/2002
PRI (TST 5878)	Physical Properties	PUSA-013-02-01	12/23/2002
PRI (TST 5878)	Physical Properties	PUSA-013-02-02	12/23/2002
PRI (TST 5878)	Physical Properties	PUSA-013-02-03	12/23/2002
PRI (TST 5878)	Physical Properties	PUSA-018-02-01	07/14/2003
PRI (TST 5878)	Physical Properties	PUSA-028-02-01	07/13/2005
PRI (TST 5878)	Physical Properties	PUSA-033-02-01	01/12/2006
PRI (TST 5878)	Physical Properties	PUSA-035-02-01	09/29/2006
PRI (TST 5878)	Physical Properties	PUSA-055-02-02	12/10/2007
PRI (TST 5878)	Physical Properties	PUSA-061-02-02	01/28/2008
PRI (TST 5878)	Physical Properties	PUSA-076-02-01	02/22/2008
PRI (TST 5878)	Physical Properties	PUSA-083-02-01	04/14/2008
PRI (TST 5878)	Physical Properties	PUSA-088-02-01	07/29/2009
MTI (TST 2508)	Physical Properties	JX20H7A	04/01/2008
MTI (TST 2508)	Physical Properties	RX14E8A	01/29/2009
ERD (TST 6049)	Physical Properties	11752.09.99-1	02/08/2000
ERD (TST 6049)	Wind Uplift	11757.08.01-1	08/13/2001
ERD (TST 6049)	Wind Uplift	11776.06.02	01/16/2003
ERD (TST 6049)	Physical Properties	02200.07.03	07/14/2003
ERD (TST 6049)	Wind Uplift	P1740.01.07	01/04/2007
ERD (TST 6049)	Physical Properties	P5110.04.07-1	04/11/2007
ERD (TST 6049)	Wind Uplift	P9260.03.08	03/21/2008
ERD (TST 6049)	Physical Properties	P13450.08.09	08/13/2009
ERD (TST 6049)	Wind Uplift	P30540.11.09-R1	11/30/2009
ERD (TST 6049)	Physical Properties	P11030.11.09-1	11/30/2009
ERD (TST 6049)	Wind Uplift	P11030.11.09-2	11/30/2009
ERD (TST 6049)	Physical Properties	P11030.11.09-3	11/30/2009
ERD (TST 6049)	Physical Properties	P33360.06.10	06/25/2010
ERD (TST 6049)	Physical Properties	P33370.03.11	03/02/2011
ERD (TST 6049)	Physical Properties	P33370.04.11	04/26/2011
ERD (TST 6049)	Physical Properties	P37300.10.11	10/19/2011



<u>Entity</u>	<u>Examination</u>	<u>Reference</u>	<u>Date</u>
ERD (TST 6049)	Physical Properties	P40390.08.12-1	08/06/2012
ERD (TST 6049)	Physical Properties	P40390.08.12-2	08/07/2012
ERD (TST 6049)	Physical Properties	C41420.09.12-3	09/11/2012
ERD (TST 6049)	Wind Uplift	P39680.03.13	03/04/2013
ERD (TST 6049)	Physical Properties	P45370.04.13	04/26/2013
ERD (TST 6049)	Wind Uplift	P1738.02.07-R2	04/29/2013
ERD (TST 6049)	Wind Uplift	11757.04.01-1-R1	04/30/2013
ERD (TST 6049)	Wind Uplift	P41630.08.13	08/06/2013
ERD (TST 6049)	Wind Uplift	P11751.05.03-R1	11/26/2013
ERD (TST 6049)	Wind Uplift	P11781.11.03-R1	11/26/2013
ERD (TST 6049)	Physical Properties	P45270.05.14	05/12/2014
ERD (TST 6049)	Physical Properties	6020.07.14-1	09/08/2014
ERD (TST 6049)	Physical Properties	6020.09.14-2	09/08/2014
ERD (TST 6049)	Physical Properties	6020.09.14-3	09/08/2014
ERD (TST 6049)	Physical Properties	6020.09.14-4	09/08/2014
ERD (TST 6049)	Physical Properties	6020.09.14-5	09/08/2014
ERD (TST 6049)	Physical Properties	6020.09.14-6	09/08/2014
ERD (TST 6049)	Physical Properties	P46520.10.14	10/03/2014
ERD (TST 6049)	Physical Properties	P43290.10.14	10/17/2014
ERD (TST 6049)	Physical Properties	PLYG-SC7550.03.15	03/24/2015
ERD (TST 6049)	Physical Properties	P40390.04.15	04/03/2015
ERD (TST 6049)	Physical Properties	P44360.10.14-R1	05/18/2015
ERD (TST 6049)	Physical Properties	PLYG-SC8080.05.15-1	05/20/2015
ERD (TST 6049)	Wind Uplift	PLYG-SC8905.05.16-1	05/17/2016
ERD (TST 6049)	Physical Properties	PLYG-SC8080.07.16	07/16/2016
ERD (TST 6049)	Wind Uplift	PLYG-SC12025.10.16	10/12/2016
ERD (TST 6049)	Physical Properties	PLYG-SC13040.12.16	12/27/2016
ERD (TST 6049)	Physical Properties	PLYG-SC11900.03.17	03/10/2017
ERD (TST 6049)	Physical Properties	PLYG-SC12115.08.17	08/08/2017
ICC-ES (EVL 2396)	IBC Compliance	ESR-1697	11/01/2014
Miami-Dade (CER 1592)	HVHZ Compliance	NOA 14-0717.08	01/22/2015
Polyglass USA	Manufacturing Affidavit	Products Current	02/18/2009
Polyglass USA	P/L Affidavit	Mule-Hide Cross Ltg	03/01/2008
Polyglass USA	Materials Affidavit	Polystick SA Compound	08/18/2011
UL, LLC. (QUA9625)	Quality Control	Service Confirmation	Exp. 10/05/2018

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 **Polyflex SAP, Polyflex 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 **Polyflex 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 **Polyflex 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 **Polyflex G** and **Polyflex G FR** are polyester reinforced, APP modified bitumen cap sheets; meet ASTM D6222. **Polyflex 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. **Polyflex 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 1: ROOF COVER OPTIONS						
Underlayment	Asphalt Shingles	Nail-On Tile	Foam-On Tile	Metal	Wood Shakes & Shingles	Slate
Elastobase	Yes	Yes (Base Sheet in 2-ply system)	Yes (Base Sheet in 2-ply system)	Yes	Yes	Yes
Elastobase P	Yes	Yes (Base Sheet in 2-ply system)	Yes (Base Sheet in 2-ply system)	Yes	Yes	Yes
Polyglass G2 Base	No	Yes (Base Sheet in 2-ply system)	Yes (Base Sheet in 2-ply system)	No	No	No
Polyglass APP Base	No	Yes (Base Sheet in 2-ply system)	Yes (Base Sheet in 2-ply system)	No	No	No
Polystick MTS or MTS PLUS	Yes	Yes	No	Yes	Yes	Yes
Polystick IR-Xe	Yes	No	No	No	Yes	Yes
Polystick TU P	No	Yes	Yes (See 5.5.1)	No	No	No
Polystick TU Plus	Yes	Yes	Yes (See 5.5.1)	Yes	Yes	Yes
Polystick TU Max	No	Yes	Yes (See 5.5.1)	Yes	No	No
Polystick Dual Pro	Yes	No	No	Yes	Yes	Yes
Polystick Tile Pro	Yes	Yes	Yes (See 5.5.1)	Yes	Yes	Yes
Polystick MU-X	Yes	No	No	Yes	Yes	Yes
Elastoflex S6 G	Yes	Yes	Yes (See 5.5.1)	No	Yes	Yes
Elastoflex S6 G FR	Yes	Yes	No	No	Yes	Yes
Elastoflex G TU	Yes	Yes	Yes (See 5.5.1)	No	Yes	Yes
Polyflex G	Yes	Yes	Yes (See 5.5.1)	No	Yes	Yes
Polyflex G FR	Yes	Yes	No	No	Yes	Yes
Polyflex SAP or SAP FR	Yes	Yes	Yes (See 5.5.1)	No	Yes	Yes
Mule-Hide SA-APP Cap Sheet or SA-APP Cap Sheet (FR)	Yes	Yes	Yes (See 5.5.1)	No	Yes	Yes

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

TABLE 1A: ALLOWABLE TILE ADHESIVE / UNDERLAYMENT COMBINATIONS ¹		
Adhesive	Florida Product Approval	Underlayments
DAP Foam Touch 'n Seal StormBond Roof Tile Adhesive	FL14506	Polystick TU Plus, Polystick TU Max
Dow TileBond™	FL22525	Polystick TU P, Polystick TU Plus, Polyflex SAP or Tile Pro
ICP Adhesives Polyset® AH-160	FL6332	Polystick TU P, Polystick TU Plus, Polystick TU Max, Polystick Tile Pro, Elastoflex G TU, Elastoflex S6 G, Polyflex G, Polyflex SAP, Polyflex SA Cap FR, Mule-Hide SA-APP Cap Sheet or Mule-Hide SA-APP Cap Sheet (FR)
ICP Adhesives Polyset® RTA-1	FL6276	Polystick TU P, Polystick TU Plus, Polystick TU Max, Polystick Tile Pro, Elastoflex G TU, Elastoflex S6 G, Polyflex G, Polyflex SAP, Polyflex SA Cap FR, Mule-Hide SA-APP Cap Sheet or Mule-Hide SA-APP Cap Sheet (FR)

¹ Refer to Tile Manufacturer's or Adhesive Manufacturer's Florida Product Approval for Overturning Moment Resistance Performance.
NEMO ETC, LLC.

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.
- #1 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.
Underlayment: Polystick TU P, Polystick TU Plus, Polystick TU Max, Polyflex SAP, Polyflex SAP FR, Mule-Hide SA-APP Cap Sheet and Mule-Hide SA-APP Cap Sheet (FR), self-adhered.
- #2 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, Polyflex SAP, Polyflex 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 1/4" ring shank nails through 32 ga., 1-5/8" diameter tin caps spaced 12-inch o.c.
- #3 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, Polyflex SAP, Polyflex 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 1/4" ring shank nails through 32 ga., 1-5/8" diameter tin caps spaced 12-inch o.c.
- #4 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.
Underlayment: Polystick TU P, Polystick TU Plus, Polystick TU Max, Polyflex SAP, Polyflex SAP FR, Mule-Hide SA-APP Cap Sheet and Mule-Hide SA-APP Cap Sheet (FR), self-adhered.
- #5 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.
Underlayment: Polystick TU P, Polystick TU Plus, Polystick TU Max, Tile Pro, Polyflex SAP, Polyflex SAP FR, Mule-Hide SA-APP Cap Sheet and Mule-Hide SA-APP Cap Sheet (FR), self-adhered.
- #6 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 Polyflex G, torch-applied.
- #7 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.
Underlayment: Polystick TU P, Polystick TU Plus, Polystick TU Max, Polyflex SAP, Polyflex SAP FR, Mule-Hide SA-APP Cap Sheet and Mule-Hide SA-APP Cap Sheet (FR), 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.
 Underlayment: Polystick TU P, Polystick TU Plus, Polystick TU Max, Polyflex SAP, Polyflex SAP FR, Mule-Hide SA-APP Cap Sheet and Mule-Hide SA-APP Cap Sheet (FR), 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.
 Underlayment: 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.
 Underlayment: Polystick TU P, Polystick TU Plus, Polystick TU Max, Polyflex SAP, Polyflex SAP FR, Mule-Hide SA-APP Cap Sheet and Mule-Hide SA-APP Cap Sheet (FR), self-adhered or Elastoflex G TU, applied in full mopping of hot asphalt.
- #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.
 Underlayment: Polystick TU P, Polystick TU Plus, Polystick TU Max, Polyflex SAP, Polyflex SAP FR, Mule-Hide SA-APP Cap Sheet and Mule-Hide SA-APP Cap Sheet (FR), self-adhered or Elastoflex G TU or Elastoflex S6 G, applied in full mopping of hot asphalt.
- #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.
 Underlayment: 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.
 Underlayment: 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.
 Underlayment: Polystick TU P, Polystick TU Plus, Polystick TU Max, Polyflex SAP, Polyflex SAP FR, Mule-Hide SA-APP Cap Sheet and Mule-Hide SA-APP Cap Sheet (FR), 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. 19/32-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. 19/32-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 with 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.

- #23 **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.
- #24 **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.
 Underlayment: Polystick TU P, Polystick TU Plus, Polystick TU Max, Polyflex SAP, Polyflex SAP FR, Mule-Hide SA-APP Cap Sheet and Mule-Hide SA-APP Cap Sheet (FR), self-adhered.
- #25 **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.
- #26 **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.
 Primer: PG100 or ASTM D41 primer at all tin-caps
 Base Ply: Polystick MTS or Polystick MTS PLUS, self-adhered
 Underlayment: Polystick TU P, Polystick TU Plus, Polystick TU Max, Polyflex SAP, Polyflex SAP FR, Mule-Hide SA-APP Cap Sheet and Mule-Hide SA-APP Cap Sheet (FR), self-adhered.
- #27 **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.
- #28 **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.



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 2: TILE SLIPPAGE LIMITATIONS FOR DIRECT-DECK TILE INSTALLATIONS			
Underlayment	Tile Profile	Staging Method	Maximum Slope
Elastoflex G TU	Flat	10-tile stack	7:12
	Lugged	8-tile stack (6 over 2)	6:12
Elastoflex S6 G or S6 G FR	Flat or Lugged	6-tile stack (4 over 2)	4:12
Polystick MTS or MTS PLUS	Flat	6-tile stack (4 over 2)	5:12
	Lugged	6-tile stack (4 over 2)	4:12
Polystick Tile Pro	Flat or Lugged	6-tile stack (4 over 2)	7:12
Polystick TU Max	Flat	6-tile stack (4 over 2) or 10-tile stack	7:12
	Lugged	6-tile stack (4 over 2)	7:12
	Lugged	10-tile stack	6:12
Polystick TU P	Flat	6-tile stack (4 over 2)	6:12
	Lugged	6-tile stack (4 over 2)	4:12
Polystick TU Plus	Flat or Lugged	6-tile stack (4 over 2)	7:12
	Flat or Lugged	10-tile stack	6:12
Polyflex G or G FR	Flat or Lugged	6-tile stack (4 over 2)	4:12
Polyflex SA P or SA P FR	Flat or Lugged	6-tile stack (4 over 2)	4:12

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 SA P 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):

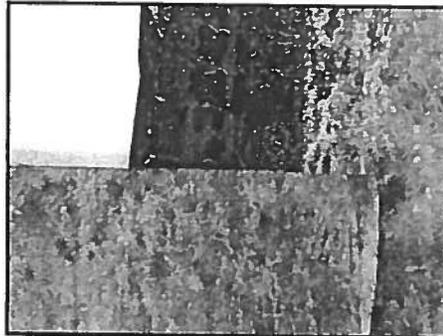
- 6.4.1 Shall be installed in compliance with the codified requirements for ASTM D1970 (except Polystick TU P) underlayment in FBC Table 1507.1.1 for the type of prepared roof covering to be installed.

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

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:

E **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.

E **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.

E **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:

E **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).

E **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 nail-boards, 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.

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

9. QUALITY ASSURANCE ENTITY:

UL, LLC – QUA9625; (314) 578-3406; k.chancellor@us.ul.com

- END OF EVALUATION REPORT -



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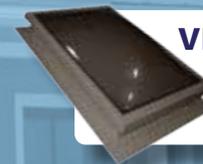


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**Substrate/
Warranty:** AZ-50 / 35/30 Year Premium Paint Finish Warranty
AZ-50 / 40/30 Year Standard Paint Finish Warranty
AZ-55 / 25 Year Unpainted Mill Finish Warranty
25 Year OceanGuard™ Salt Water Warranty*

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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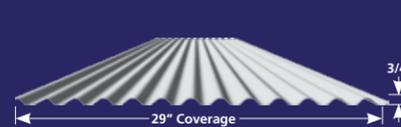
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SR .31 TE .85 SRI 31

Hawaiian Blue SMP
SR .32 TE .85 SRI 32

Gallery Blue SMP
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Barn Red SMP
SR .36 TE .84 SRI 37

Patriot Red SMP
SR .40 TE .83 SRI 42

Burgundy SMP
SR .24 TE .83 SRI 21

Cocoa Brown SMP
SR .32 TE .85 SRI 32

Mocha Tan SMP SR .44 TE .84 SRI 48
Clay SMP SR .34 TE .86 SRI 35
Light Stone SMP SR .55 TE .85 SRI 64
Ivory SMP SR .60 TE .83 SRI 70
Polar White SMP SR .63 TE .85 SRI 75
Pure White SMP SR .68 TE .84 SRI 82

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SR SOLAR REFLECTIVITY:
% OF SUN'S RAYS REFLECTED FROM ROOF
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SRI SOLAR REFLECTANCE INDEX:
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Regal White SR .68 TE .86 SRI 82
Solar White SR .68 TE .85 SRI 82
Sandstone SR .54 TE .86 SRI 63
Ash Gray SR .39 TE .84 SRI 41
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Patina Green SR .29 TE .87 SRI 29
Marine Green SR .36 TE .86 SRI 38
Hartford Green SR .30 TE .85 SRI 30

* Actual colors on this brochure and your computer monitor may vary slightly from color chart. Color differences shown are for illustrative purposes only. Request a metal sample to view exact color.

Bronze SMP SR .30 TE .85 SRI 30
Light Gray SMP SR .34 TE .85 SRI 35
Charcoal Gray SMP SR .25 TE .86 SRI 24
Black SMP SR .25 TE .84 SRI 23



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Nevada Silver SR .60 TE .77 SRI 68
Pre-Weathered SR .30 TE .79 SRI 27



Aged Copper SR .47 TE .85 SRI 53

Evergreen SR .27 TE .86 SRI 26

Brook Blue SR .29 TE .85 SRI 28

Cobalt Stone SR .26 TE .85 SRI 24

Terra Cotta SR .35 TE .87 SRI 37

Regal Red SR .42 TE .84 SRI 45

Colonial Red SR .33 TE .85 SRI 34

Mansard Brown SR .27 TE .86 SRI 26

Medium Bronze SR .30 TE .87 SRI 31

Dark Bronze SR .26 TE .84 SRI 24

Appendix B:

Maps of Subject Property



Community Planning and Preservation Commission

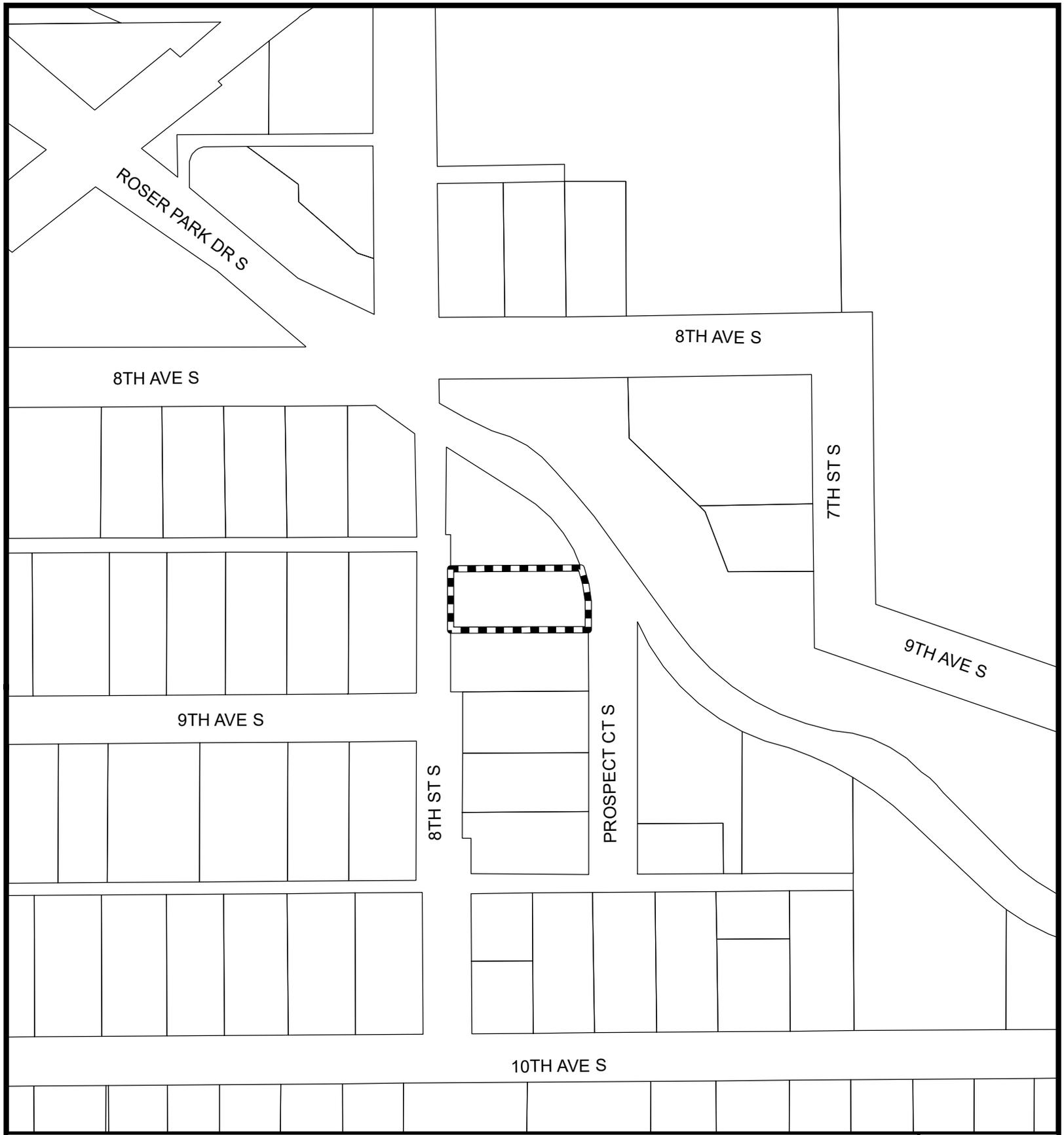
809 Prospect Court South

**AREA TO BE APPROVED,
SHOWN IN** 

**CASE NUMBER
19-90200005**



**SCALE:
1" = 115'**



Community Planning and Preservation Commission

809 Prospect Court South

**AREA TO BE APPROVED,
SHOWN IN** 

**CASE NUMBER
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SCALE:
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