

EverGuard®  
FREEDOM™ TPO Self-Adhering  
Roofing System Specifications

Specification Sheet

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*EverGuard<sup>®</sup>*  
**Freedom<sup>™</sup>TPO**  
*Self-Adhering Roofing Systems*

# SYSTEM SPECS

*Addendum to EverGuard Application  
and Specifications Manual*

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# Installation Specification

## EverGuard® FREEDOM™ TPO Self-Adhering Roofing System Specifications

### 1.07 DELIVERY, STORAGE AND HANDLING

- A. Deliver materials in original, unopened containers.
- B. Containers shall be labeled with manufacturer's name, brand name, installation instructions and identification of various items.
- C. All materials must be stored properly and protected from freezing. Should the Freedom™ TPO roofing material be exposed to temperatures below 40°F (4°C), the material must be restored to room temperature, 60°F (16°C) to 80°F (27°C), prior to installation.
- D. Store all materials, including membrane, in a dry, protected area. Damaged or wet materials must not be used. Installed materials found to be damaged or wet shall be replaced at contractor's expense.
- E. Store the membrane in a manner that will protect it from abrasion or puncture. If the insulation is not installed the same day it is delivered to the project, the insulation must be stored on skids (or insulation bunking) off the ground or deck and completely covered with a breathable material, such as a canvas tarp.

### 1.08 PROJECT CONDITIONS (CAUTIONS AND WARNINGS)

Prior to the use of any EverGuard Freedom TPO Self-Adhered Roofing Systems product, consult Material Safety Data Sheets for applicable cautions and warnings.

- A. Do not use oil based or bituminous roof cement with EverGuard Freedom TPO materials.
- B. Do not install EverGuard Freedom TPO Self-Adhered roofing membrane directly over asphaltic or coal tar materials.
- C. Do not expose membrane or accessories to a constant temperature of 180°F (82°C) or above.
- D. Do not allow waste products (petroleum, grease, oil or solvents, etc.) or direct steam venting to come in contact with the EverGuard Freedom TPO Self-Adhering Roofing System. Any exposures to contaminants must be presented to GAFMC Contractor Services Department for assessment of any potential impact on the performance of the roofing system.
- E. Adhesives and solvents and their fumes are extremely FLAMMABLE. Do not breathe vapors or use near fire. Make sure that open containers are not placed near fresh air intake ventilators on the roof. Consult container labels and Material Safety Data Sheets for specific information.
- F. All seaming and bonding surfaces must be dry and clean.
- G. Install only when ambient conditions are 45°F (7°C) and rising.

- H. Roofing surface must be free of standing water, ice or snow prior to and during the roofing project.
- I. Rubber gloves are recommended when using any solvents or adhesives. Be careful when handling the adhesive side of the membrane. The adhesive is very aggressive and may cause irritation to the skin.
- J. Safety glasses, goggles or a face shield are recommended for eye protection.
- K. When using automatic heat welding equipment, consult manufacturer's warnings.

### 1.09 GUARANTEE

Provide GAFMC's standard Diamond Pledge™ NDL Roofing System Guarantee. Guarantee shall cover repair of leaks caused by failure in materials supplied by GAFMC or workmanship deficiencies in their installation. Length of guarantee shall be:

- A. Ten (10) year duration for EverGuard Freedom TPO SA systems from date of completion.
- B. Ten (10) or fifteen (15) year duration for EverGuard Freedom TPO HW systems from date of completion.

## Part 2 – PRODUCTS

### 2.01 GENERAL

The components of the EverGuard® Freedom™ TPO Self-Adhering Roof System shall be manufactured or sold by GAFMC or BMCA or approved by GAFMC as compatible and acceptable. Unless specifically included in the guarantee coverage by GAFMC, products manufactured or sold by others are excluded from coverage.

### 2.02 MEMBRANE

A smooth type, polyester scrim reinforced thermoplastic polyolefin membrane with a nominal 0.045 inch (1.1mm) thickness, for use as a single ply roofing membrane. Meets or exceeds the requirements of ASTM D 6878. EverGuard Freedom TPO SA and HW Self-Adhering Roof Membranes are available in the sizes, thickness and color shown below.

Width - 60", Freedom TPO HW has a 3" (7.62cm) selvage edge with no adhesive on the reverse side of the selvage. Freedom TPO SA has adhesive over the entire back of the membrane surface.

Thickness, membrane exclusive of adhesive - 0.045" nominal (1.1mm), (adhesive adds 10 mils nominal (0.024mm))

Length – 50' (15.24m)

Color – White

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## Part 1 – General

### 1.01 Summary

- A. Section includes
  - 1. Thermoplastic Self-Adhering Single Ply Roofing
  - 2. Insulation
- B. Related Sections
  - 1. Section 06100: Rough Carpentry
  - 2. Section 07620: Sheet Metal Flashing and Trim
  - 3. Section 15430: Plumbing Specialties

### 1.02 REFERENCES

- A. Factory Mutual (FM Global) – Approval Guide
- B. Underwriters Laboratories (UL) - Roofing Systems and Materials Guide (TGFU R1306)
- C. American Society for Testing and Materials (ASTM) – Annual Book of ASTM Standards
- D. Sheet Metal and Air Conditioning Contractors National Association, Inc. (SMACNA) – Architectural Sheet Metal Manual
- E. National Roofing Contractor's Association (NRCA)
- F. American Society of Civil Engineers (ASCE)

### 1.03 DEFINITIONS

- A. Roofing Terminology: Refer to ASTM D1079 and the glossary of the National Roofing Contractors Association (NRCA) Roofing and Waterproofing Manual for definitions of roofing terms related to this section.

### 1.04 PERFORMANCE REQUIREMENTS

- A. Provide an installed roofing membrane and base flashing system that does not permit the passage of water.
- B. GAFMC shall provide all primary roofing materials that are physically and chemically compatible when installed in accordance with the GAFMC's current application requirements.

### 1.05 SUBMITTALS

- A. Product Data: Provide product data sheets for each type of product indicated in this specification.
- B. Shop Drawings: Provide manufacturer's standard details and approved shop drawings for the roof system specified.
- C. Samples: Provide samples of insulations, fasteners, membrane materials and accessories for verification of quality.
- D. Certificates: Installer shall provide written documentation from the manufacturer of their authorization to install the roof system and eligibility to obtain the guarantee specified.

- E. Submit a "Notice of Award (NOA)" to GAFMC's Contractor Services Department for approval at least 14 days PRIOR to the job start.
  - 1. The NOA must be filled out completely and accurately to include any prior deviations approved from this specification by GAFMC's Contractor Services Department.
  - 2. A roof drawing or shop drawing must be provided to the Contractor Services Department. Drawings must show dimensions and all penetrations.
  - 3. When Material & Workmanship Guarantees or Full Systems Guarantees are desired, it is recommended that GAFMC be contacted PRIOR to project bid regarding system requirements.

### 1.06 QUALITY ASSURANCE

- A. All work performed by the contractor shall be done by competent, highly skilled workmen equipped with the proper tools and equipment necessary to perform all construction in accordance with this specification and pertinent detail drawings. Any and all substandard work will be rejected.
- B. There shall be no deviation made from this specification or the specific detail drawings without written approval from GAFMC's Contractor Services Department at least 14 days prior to the start of the roofing project.
- C. Upon completion of the installation, an inspection shall be conducted on guaranteed projects by a GAFMC Quality Assurance Representative to confirm that the roofing system appears to have been installed in accordance with GAFMC's most current published specifications and details for EverGuard Freedom TPO Roofing Systems. This inspection is not intended to be a final inspection for the benefit of the owner but rather for the benefit of GAFMC to determine whether the roof meets GAFMC's guarantee requirements.
- D. It is the roofing contractor's responsibility to comply with all building codes (local and national) for roofing system installation requirements and limitations applicable at the time of the bid.
- E. For specific code and testing agency approvals achieved by EverGuard® Roofing Systems, refer to the published listings or call GAFMC's Contractor Services Department at 1-800-ROOF411.

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## 2.03 INSULATION

EverGuard Freedom TPO Self-Adhering Roofing Systems have specific requirements for insulation type, manufacturer, thickness, density and facer. Only insulations listed below may be used beneath the EverGuard Freedom TPO Self-Adhering Roofing System.

Acceptable Insulations –

EnergyGuard™ ISO/EnergyGuard Iso Ultra  
DensDeck™ Prime

High Density Uncoated Wood Fiber Board (Ten (10) year guarantees without moisture scan, Fifteen (15) year guarantees require a moisture scan.)

## 2.04 RELATED MATERIALS

The following list contains the names of other Freedom™/EverGuard®/GAFMC/BMCA products and accessories that may be required in order to complete the EverGuard Freedom TPO Self-Adhering Roof System.

- A. Freedom Self-Adhering Curb Flashing 20" (50.8cm) x 50' (15.25m)
- B. EverGuard TPO Flashing (reinforced) 8" (20.32cm) x 100' (30.5m)
- C. EverGuard TPO Coated Metal 4' (1.2m) x 10' (3.05m) sheets
- D. EverGuard TPO Bonding Adhesive
- E. EverGuard TPO Cover Tape 6" (15.24cm) x 100' (30.5m)
- F. EverGuard TPO
- G. EverGuard Primer
- H. EverGuard Water Block
- I. EverGuard TPO Cut Edge Sealant
- J. EverGuard Pourable Sealer
- K. EverGuard Termination Bar 1 1/4" (3.2cm) x 10' (3.0m)
- L. EverGuard TPO Walkway Roll (gray) 30" (76.2cm) x 100' (3,048cm)
- M. EverGuard TPO Cleaner 5 Gal. (18.9 liters) Pails
- N. Freedom TPO Self-Adhering Premolded Outside Corners 8 Per Box
- O. Freedom Self-Adhering TPO Pipe Boots 5 Per Box
- P. EverGuard TPO Premolded Pipe Boots 10 Per Box
- Q. DRILL-TEC™ Fasteners/Insulation Plates
- R. EverGuard Caulk
- S. Freedom TPO Self-Adhering T-Joint Patches 50 per box
- T. Wood Blocking/Nailers Pressure Treated Preservative #2 Construction Grade or Better

NOTE: Prolonged exposure of adhesives and sealants to temperatures greater than 80°F (27°C) will reduce their shelf life. Normal shelf life is approximately 9-12 months from manufacture.

## Part 3 – Execution

### 3.01 SUBSTRATE CRITERIA

The building owner or owner's representative is responsible for verifying that a suitable substrate exists for the roofing system installation and that it meets structural requirements for the anticipated roof loads and geographical environmental conditions. The GAFMC certified contractor should not proceed with the roof installation until all defects with the roof substrate (if applicable) have been corrected.

A suitable deck must provide sufficient load-bearing capacity to support the specified roof assembly and any roof top equipment with consideration given for appropriate live and dead loads determined by a design professional. Additionally, the substrate must provide a suitable surface for the installation of an EverGuard Freedom TPO Self-Adhering Roof System. For Self-Adhering Systems over insulation, the deck must provide acceptable pull-out resistance for the fasteners or be acceptable for the use of adhesives used to secure the roof insulation to the structural deck.

The substrate should be designed to facilitate drainage of the roof surface. For projects utilizing either EverGuard Freedom TPO SA adhered seams or EverGuard Freedom TPO HW with hot air welded seams, a positive slope is recommended to provide adequate drainage. For projects assembled using EverGuard Freedom TPO SA Membrane with adhered seams, positive drainage must be achieved in order to avoid standing water.

### 3.02 SUBSTRATE PREPARATION

- A. The building owner or owner's representative is responsible for ensuring that all wet insulation and/or deteriorated parts of the substrate have been removed in a re-roofing installation. The best means to determine this is a combination of non-penetrating testing, such as infrared scans, nuclear scans or electric capacitance testing, along with confirming roof core cuts. Confirming roof core cuts should be taken to define the actual affected areas as well as to provide a means of measuring quantity of moisture entrapment.
- B. Existing sprayed-in-place urethane foam roofs must be removed and a suitable roof substrate material applied to the deck prior to the installation of the new roofing system.

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- C. If fully adhering the membrane directly to the concrete deck, the deck must first be primed with EverGuard Primer. Consult GAFMC's Contractor Services Department prior to any other direct to deck application to review requirements and whether Primer should be applied to the deck.

### 3.03 INSTALLATION

#### 3.03.A. Treated Wood Nailers

1. Nailers must be pressure treated wood with salt preservatives. Creosote and Asphaltic preservatives are not acceptable.
2. Wood nailers are required along all roof edges wherever metal gravel stops; drip edges or gutter systems are specified. Wood nailers are also required when roof curbs are to be mounted at finished roof level and not directly to the structural deck.
3. Wood nailers must be equal in height to the roof insulation and be wider than the flange of the roof edge metal or curb being installed but not less than 3 1/2" (8.9cm) wide.
4. Wood nailers must be installed by an industry-accepted method to resist a minimum of 250 lbs. (1111N) of force in any direction with fasteners spaced a maximum of 24" (61cm) apart.

#### 3.03.B. Insulation Attachment

When insulation is required for a roof assembly it may be attached using; mechanical securement with DRILL·TEC™ fasteners and insulation plates or adhered with InstaStik™ or OlyBond™ Low Rise Insulation Adhesive or asphalt. When mechanically attaching insulation to approved decks, EverGuard® Roofing Systems require a minimum of one (1) fastener every 2 sq. ft. (0.2m<sup>2</sup>) using only DRILL·TEC fasteners and plates. Alternative methods of attaching insulation to the deck may be acceptable. Contact GAFMC's Contractor Services Department for alternative methods.

#### 3.03.C. Membrane

The Self-Adhering TPO system may be installed on roofs up to 50' (15.24m) in height. For heights exceeding 50' (15.24m), wind uplift calculations per ASCE 7 must be conducted by the Owner's representative to confirm that the installation is appropriate for the specific job. The EverGuard Freedom™ TPO SA or HW membrane must be installed membrane side up. If the membrane is cut, apply EverGuard TPO Cut Edge Sealant to the cut edge. Install EverGuard Freedom TPO Self-Adhering roofing system starting at the low point of the roof and continuing to the highest point. In keeping with good roofing practice, all laps shall be lapped shingle fashion and

shall not create backwater laps. Prior to application, unroll the membrane and allow it to relax as long as necessary, depending on ambient conditions.

#### FIRST COURSE APPLICATION:

1. Position the EverGuard Freedom TPO SA or EverGuard Freedom TPO HW membrane over the approved substrate without stretching.
2. Unroll the 50' (15.2m) roll of the EverGuard Freedom TPO membrane. For EverGuard Freedom TPO HW, cut off the 3" (7.6cm) selvage which has no adhesive on the reverse side. Starting at the low point of the roof, place the EverGuard Freedom TPO membrane so that the factory applied lap guide is on the upslope side of the roll to facilitate proper lapping of the seams.
3. Fold the membrane in half longitudinally, exposing the split in the release liner.
4. Peel the upper half of the release liner from the adhesive film back of the membrane and lay to the side of the panel (do not cut release liner).
5. Roll the membrane with the exposed adhesive onto the substrate in line with the original layout position. Maintain a rounded radius at the longitudinal fold when rolling out to avoid creating wrinkles.
6. Apply pressure to the membrane using either a water-filled lawn roller or a stiff bristle push broom. Roll/broom in the installed section of EverGuard Freedom TPO Self-Adhering membrane to promote maximum adhesion to the substrate. This installed area will be the anchor point and alignment guide for the installation of the remainder of the roll. Rolling or brooming in the width direction of the panel will aid in keeping the membrane from creating wrinkles in the sheet.
7. Install the other side of the sheet by folding the EverGuard Freedom TPO Self-Adhering membrane back to the point that the release liner becomes accessible. Care must be taken to avoid creasing the membrane at the fold. Peel the remaining release liner from the adhesive on the rest of the roll. Roll the membrane into place while maintaining a round radius at the fold.
8. Apply pressure using either a water-filled lawn roller or a stiff bristle push broom. Roll/broom the remaining installed EverGuard Freedom TPO Self-Adhering membrane sheet to promote maximum adhesion to the substrate. Rolling/brooming in the width direction of the membrane will aid in keeping the membrane from creating wrinkles in the sheet.

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9. End lap joints (6" (15.2cm) minimum) must be overlaid with Freedom TPO T-Joint patches at the T-Joints created at the edges of the endlap. When butting two lengths of field membrane together, the cover tape or strip-in flashing must cover the entire lap joint and extend 3" (7.6cm) onto the adjacent sheets at both ends of the lap joint (if using the EverGuard TPO Flashing Strip, the entire flashing strip must be hot air welded to the membrane).
10. Proceed with the appropriate installation method detailed below.

## **SUBSEQUENT MEMBRANE APPLICATION - HOT AIR WELDED (HW) SEAM METHOD (EVERGUARD FREEDOM TPO HW):**

1. Position the next sheet to overlap the installed membrane a minimum of 3" (7.6 cm), while ensuring the lap is installed shingle-fashion to prevent backwater laps.
2. Using a clean rag saturated with EverGuard TPO Cleaner, thoroughly clean an area on the installed sheet at least 3" (7.6cm) wide if the area to be seamed has become contaminated with dirt, debris, etc. and allow to dry. Change rags frequently to avoid depositing previously removed materials.
3. Using an approved automatic heat welding machine or hand held heat gun and silicone roller, continuously weld a minimum 1 1/2" (3.8cm) wide seam. GAFMC recommends that only Robotic Automatic Walker Welders be used to weld all field seams.
4. All welded seams must be manually checked for voids or seam deficiencies by probing the entire seam area with a blunted cotter key extractor after the seam has cooled. In addition, there must be destructive seam cuts taken each day at the job start and every time there is an interruption in the welding process (i.e., power failure, welder shut down, job site conditions change and after lunch). All deficiencies must be repaired.
5. Once the seam is hot air welded and the laps manually checked, fold the sheet back onto the installed membrane and remove the half of the release liner from the EverGuard Freedom TPO HW membrane that is closest to the welded seam.
6. After removing this half of the release liner from the membrane, start in the middle of the sheet and roll the complete membrane onto the roof substrate. Be careful to maintain a rounded radius at the fold in the membrane being applied and progressing from the center of the sheet to the ends – do not try to push the entire roll length onto the substrate at once or you may cause wrinkles in the roofing membrane.

7. Apply pressure to the adhered half of the membrane using either a water-filled lawn roller or a stiff bristle push broom. Roll/broom the membrane surface in order to achieve maximum adhesion to the roofing substrate. The roller/brooming motion should be across the short dimension of the membrane panel in order to avoid creating wrinkles in the EverGuard Freedom TPO HW membrane panel.
8. Roll back the remaining unadhered half of the EverGuard Freedom TPO HW membrane and completely remove the remainder of the release liner before allowing the rest of the sheet to be carefully rolled onto the substrate. Roll or broom this half of the sheet to promote maximum adhesion to the substrate before proceeding with subsequent rolls.
9. Any wrinkles that impede the flow of water drainage must be cut out, laid flat and repaired using standard TPO repair procedures.
10. End lap joints (6" (15.2cm) minimum) must be overlaid with Freedom T-Joint patches at the T-joints formed in the overlaps. When butting joints, the entire area of the butt joint must be overlaid with EverGuard TPO Cover Tape or EverGuard TPO flashing strip (8" width, 20.3cm) and extend a minimum of 3" (7.6cm) onto the adjacent field membrane at both ends of the lap joint (if using the EverGuard TPO Flashing Strip, the entire flashing strip must be hot air welded to the membrane).

## **SUBSEQUENT MEMBRANE APPLICATION – ADHERED SEAM METHOD (EVERGUARD® FREEDOM™ TPO SA):**

1. Position the next sheet to overlap the installed membrane a minimum of 6" (15.2cm) ensuring the lap is installed shingle fashion to prevent backwater laps.
2. Stir EverGuard Primer thoroughly before use. DO NOT THIN! Fold back the 6" (15.2cm) seam area of the overlapping membrane panel and using a scrub pad, apply an even coat of primer to the seam area of the installed membrane at the rate of 200 sq. ft. per gallon along the entire 6" (15.2cm) seam area. If the seam area has been contaminated with dirt, pre-cleaning with EverGuard TPO Cleaner is required. Avoid globs and puddles. Allow primer to dry completely to a dry finger touch.
3. Remove the release paper from the lap area of the overlapping membrane and gently roll the adhesive/membrane carefully onto the membrane below.
4. Use a 2" (5.1cm) silicone coated roller to apply maximum pressure in the 6" (15.2 cm) seam area. Roll the seam area at a 45° angle to the seam as well as in both a machine and

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cross machine direction.

5. After the seam is assembled, fold the sheet back onto the installed membrane and remove the half of the release liner from the EverGuard Freedom TPO SA membrane that is closest to the newly formed seam.
6. After removing this portion of the release liner from the membrane, start in the middle of the sheet and roll the complete membrane onto the roof substrate. Be careful to maintain a rounded radius at the fold in the membrane being applied and progressing from the center of the sheet to the ends -do not try to push the entire roll length onto the substrate at once or you may cause wrinkles in the roofing membrane.
7. Apply pressure to the adhered half of the membrane using either a water-filled lawn roller or a stiff bristle push broom. Roll/broom the membrane surface in order to achieve maximum adhesion to the roofing substrate. The rolling/brooming motion should be across the short dimension of the membrane panel in order to avoid creating wrinkles in the EverGuard Freedom TPO SA membrane panel.
8. Roll back the remaining unadhered half of the EverGuard Freedom TPO SA membrane over the previously adhered portion and remove the remaining release liner, completely exposing the adhesive. Roll the remaining portion of the sheet onto the substrate, being careful to maintain a radius at the fold and then roll or broom to promote maximum adhesion.
9. Any wrinkles that impede the flow of water drainage must be cut out, laid flat, and repaired using EverGuard TPO Cover Tape following standard repair procedures.
10. End lap joints (6" (15.2cm) minimum) must be overlaid with Freedom T-Joint patches at the T-joints formed in the overlaps. When butting joints, the entire area of the butt joint must be overlaid with EverGuard TPO Cover Tape or EverGuard TPO flashing strip (8" width, 20.3cm) and extend a minimum of 3" (7.6 cm) onto the adjacent field membrane at both ends of the lap joint (if using the EverGuard TPO Flashing Strip, the entire flashing strip must be hot air welded to the membrane).

### 3.04 PERIMETER MEMBRANE ATTACHMENT

- A. EverGuard Freedom TPO Self-Adhered Roofing Systems offers several different perimeter attachment methods. Consult EverGuard TPO standard details for fully adhered systems.
- B. Perimeter attachment is required at each roof level, curb, skylight, expansion joint, roof penetration over 12"

(30.5cm) in diameter, change in slope, and when the slope exceeds 2" per foot (16.8cm/m).

### 3.05 FLASHING

- A. Perimeter wall flashing, flashing around vents, skylights, and miscellaneous roof projections must be installed using Freedom TPO Self-Adhering Flashing, EverGuard TPO membrane, EverGuard TPO Coated Metal, and/or Freedom TPO Self-Adhering outside corners and pipe boots. EverGuard TPO offers numerous alternatives for flashings using standard details. Self-adhering flashings are limited to walls no greater than 24" (61cm) in height.
- B. EverGuard TPO unreinforced flashing may only be used at inside and outside corners, field wrapped pipe flashings and as strip in material for lap joints. Un-reinforced flashing shall NOT be used as a general-purpose flashing.
- C. Freedom Self-Adhering Pipe Boots shall be installed in the following manner:
  - a. Measure the penetration and cut the top of the pipe boot to the appropriate diameter.
  - b. Pipe boots should be installed on prepared surfaces only. Prepare the surface by verifying it is clean and dry, and prime the roof membrane with EverGuard™ Primer. Allow the primer to dry prior to installing the pipe boot.
  - c. Remove the release film and position the boot over the penetration.
  - d. Slide the boot into place and adhere to the membrane. Roll the flange with a silicone roller to achieve maximum adhesion to the membrane.
  - e. Install clamping ring at the top of pipe boot to seal it to the penetration.
  - f. Caulk around the clamping ring and at the bottom edge of the boot flange, extending the caulk 6 (15.2cm) inches on to the membrane at seam intersections.

### 3.06 TEMPORARY NIGHT SEAL/ NIGHT TIE-IN

- A. At the completion of each day's work, temporarily seal any loose edges of the membrane with an appropriate sealant. Make sure that no water flows beneath any completed sections of the roof. Membrane contaminated with the sealant used as a night seal must be cut out and disposed of properly prior to resumption of work.

### 3.07 WALKWAYS

- A. If regular maintenance (once a month or more) is required to service rooftop units, EverGuard TPO walkway pads are recommended to prevent damage to the roofing membrane.



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- B. Walkways are recommended at all traffic concentration points, such as roof hatches, access doors, rooftop ladders, etc., regardless of traffic frequency.
- C. Consult EverGuard TPO standard details for attachment method.
- D. Walkways are considered a maintenance item and are not guaranteed by GAFMC.

### 3.08 EXPANSION JOINTS AND BUILDING CONTROL JOINTS

- A. Consult EverGuard TPO standard details for various application methods.
- B. Expansion joints and building control joints not manufactured by GAFMC are not covered by any GAFMC Guarantee.

### 3.09 PITCH PANS

- A. Fill pitch pans in accordance with EverGuard TPO standard details.
- B. Pitch pans are a maintenance item and are not guaranteed by GAFMC.

### 3.10 ROOF DRAINS

- A. Prepare substrate around each roof drain to prevent any distortion or membrane bridging and to provide a smooth transition from the roof surface to the drain clamping ring. GAFMC recommends roof sumps with positive slope for 36" (91.4cm) in all directions from internal drains to facilitate proper drainage.
- B. The surface between the clamping ring and the drain must be clean and smooth. Remove all existing flashing, cement or lead when reroofing.
- C. One (1) complete tube of EverGuard® Water Block is required per drain.
- D. When completed, all bolts and/or clamps must be in place to provide constant, even compression.
- E. Do not run seam through roof drains or sumps.

### 3.11. METAL WORKS

Supply and install metalwork meeting project design requirements. At a minimum, metal must meet the Sheet Metal and Air Conditioning Contractors' National Association recommendations. Refer to EverGuard Freedom™ TPO detail drawings for installation requirements.

### 3.12 CLEAN-UP

- A. All work areas shall be kept clean, clear and free of debris at all times.
- B. Do not allow trash, waste or debris to collect on the roof. These items shall be removed from the roof on a daily basis.
- C. All tools and unused materials must be collected at the end of each workday and stored properly off of the finished roof surface and protected from exposure to the elements.
- D. Dispose of or recycle all trash and excess material in a manner conforming to current EPA regulations and local laws.
- E. Properly clean the finished roof surface after completion and make sure the drains and gutters are not clogged.
- F. Clean and restore all damaged surfaces to their original condition.

### End of Section