SECTION 07 14 00

DUAL CORE HORIZONTAL WATERPROOFING
(Overseal-H™ Membrane with 650 Membrane or PRM™ System)

This guide specification has been prepared by Polyguard Products Inc., in printed and electronic media, as an aid to specifiers in preparing written construction documents for Dual Core Horizontal Waterproofing system. 650 Membrane is produced in both summer- and winter-grade formulations; use 650 Membrane summer-grade for temperatures 40°F (5°C) and rising, use 650 Membrane winter-grade for temperatures 25°F (-4°C) to 65°F (18°C). Underseal® PRM™ (Puncture Resistant Membrane) is applied to the exterior sides of concrete foundation walls, tunnels, plaza decks, parking garages, and related applications where waterproofing is critical. PRM is a strong, self-adhesive waterproofing sheet membrane consisting of a double-thick, high-strength, cross-laminated polyethylene backing laminated to a thick rubberized-asphalt compound. Total Membrane thickness is factory controlled at 65 mls. PRM is produced in both summer- and winter-grade formulations; use PRM summer-grade for ambient and substrate surface temperatures of 40°F (5°C) and rising, and use PRM winter-grade for ambient and substrate surface temperatures of 25°F (-4°C) to 65°F (18°C). Polyguard® Overseal-H™ Membrane is a single-component, 110% solid Silyl Terminated Polyether (STPE) cold-applied, elastomeric, waterproofing concrete sealer; designed for use in positive-side hydrostatic pressure applications where horizontal-plane waterproofing is critical and will be covered by overburden. Typical applications include concrete or wood deck structures that will be covered with cementitious-based over-burden such as concrete, lightweight concrete, mortar beds, pavers, etc. used for Plaza Decks and Balcony Decks. It dries to a tough, flexible film that stops water passage through a substrate and maintains protection over substrate shrinkage cracks that develop up to 1/16-inch. Overseal-H™ Membrane can be used as a stand-alone membrane, or as a liquid component of a dual-core waterproofing system. Overseal-H™ Membrane has a VOC content of <20 g/l.

Edit entire master document to suit project requirements. Modify or add items as necessary. Delete items which are not applicable. Words and sentences may contain choices to be made regarding inclusion or exclusion of a particular item or statement. This section may include performance-, proprietary-, and/or descriptive-type specifications. Edit to avoid conflicting requirements. Editor notes to guide the specifier are included between lines of asterisks to assist in choices. Remove these editor notes before final printing of specification.

This guide specification is written around the Construction Specifications Institute (CSI) Section Format standards.

For specification assistance on specific product applications, please contact our offices or any of our local product representatives throughout the country.

Polyguard Products Inc. reserves the right to modify these guide specifications at any time. Updates for this guide specification will be posted on the manufacturer’s web site and/or in printed media as they occur. Manufacturer makes no expressed or implied warranties regarding content, errors, or omissions in the information presented.

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Surface preparation.

B. Application of cold-fluid-applied waterproofing membrane system.

C. Application of self-adhering membrane system.

1.02 RELATED SECTIONS

Specifier Notes: Edit the list of related sections as required for the project. List other sections dealing with work directly related to this section.

A. Section 03 30 00 – Cast-in-Place Concrete

B. Section 07 13 00 – Sheet Waterproofing

C. Section 07 14 00 – Fluid-Applied Waterproofing

D. Section 07 60 00 – Flashing and Sheet Metal

E. Section 07 92 00 – Joint Sealants

F. Section 07 95 00 – Expansion Control
1.03 REFERENCES
O. ASTM E 154 – Standard Test Methods for Water Vapor Retarders Used in Contact with Earth Under Concrete Slabs, on Walls, or as Ground Cover.
Q. ICC ES Report AC 29 - Cold, Liquid-applied, Below-grade, Exterior Dampproofing and Waterproofing Materials
R. Radon Reduction Technology Laboratory - Resistance to Permeance by Radioactive Radon Gas; Resistance to Diffusion by Radioactive Radon Gas.

1.04 SUBMITTALS
A. Product Data: Submit manufacturer’s product data, installation instructions, use limitations and recommendations.
B. Samples: Submit representative samples of the following for approval:
   1. Sheet Membrane
   2. Protection Board
   3. Prefabricated Drainage Composite
   4. Perimeter Drainage Composite

1.05 QUALITY ASSURANCE
A. Manufacturer Qualifications: Sheet Membrane must be manufactured by a company with a minimum of ten (10) years of experience in the production and sales of membrane waterproofing materials.
B. Applicator Qualifications: A firm having at least three (3) years of experience in applying these types of specified materials and specifically accepted in writing by the membrane system manufacturer.

C. Materials: For each type of material required to complete the work of this section, provide primary materials which are the products of a single manufacturer.

D. Pre-Application Conference: A pre-application conference shall be held to establish procedures and to review conditions, installation procedures and coordination with other related work. Meeting agenda shall include review of special details and flashing.

E. Manufacturer’s Representative: Arrange to have trained representative of the manufacturer on site periodically to review installation procedures.

1.06 DELIVERY, STORAGE, AND HANDLING

A. Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.

B. Store materials in a clean, dry area in accordance with manufacturer's instructions and local governing regulations.

C. Store adhesives at temperatures of 40°F (5°C) and above to facilitate handling. For best application results, store in ambient temperatures above 50°F (11°C).

D. Store membrane cartons on a stable surface (i.e. pallets) with lid securely closed.

E. Keep away from sparks and flames.

F. Completely cover when stored outside. Protect from rain.

G. Protect materials during handling and application to prevent damage or contamination.

H. Refer to product label for additional information on handling, use, and storage precautions.

I. Avoid use of products which contain tars, solvents, pitches, polysulfide polymers, or PVC materials that may come into contact with waterproofing membrane system.

1.07 PROJECT CONDITIONS

A. Perform work only when existing and forecasted weather conditions are within the limits established by the membrane manufacturer. Do not apply membrane if the temperature is below 25°F (-4°C) or to a damp, frost covered, or otherwise contaminated surface.

B. Proceed with installation only when substrate construction and preparation work is complete. If necessary, ensure that all substrate surfaces are approved by architect.

C. Warn personnel against breathing of vapors and contact with skin and eyes; wear appropriate protective clothing and respiratory equipment if required per the product SDS document.

D. Keep flammable products away from spark or flame. Post "No Smoking" signs. Do not allow use of spark-producing equipment during application and until all vapors have dissipated.

E. Maintain work area in a neat and workmanlike condition. Remove empty cartons and rubbish from the site daily.

1.08 WARRANTY

A. Manufacturer warrants only that this product is free of defects, since many factors which affect the results obtained from this product are beyond our control; such as weather, workmanship, equipment utilized and prior condition of the substrate. We will replace, at no charge, proven defective product within twelve (12) months of purchase, provided it has been applied in accordance with our written directions for uses we recommended as suitable for this product. Proof of purchase must be provided. A five (5) year material or system warranty may be available upon request. Contact Polyguard Products, Inc. for further details.
PART 2 PRODUCTS

2.01 MANUFACTURER
A. Polyguard Products Inc. P.O. Box 755 Ennis, TX 75120-0755; Phone: (214) 515-5000
   Email: info@polyguard.com

2.02 SYSTEM MATERIALS
A. Polyguard® Overseal-H™ is a Silyl Terminated Polyether (STPE) waterproofing membrane; a single-component; liquid; waterproofing membrane that forms a durable, continuous, bonded elastomeric barrier; and combines the best of silicone and polyurethane properties; cold-applied via roller or squeegee.

PHYSICAL PROPERTIES

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>TEST METHOD</th>
<th>TYPICAL VALUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>COLOR</td>
<td>Dark Gray / Black</td>
<td></td>
</tr>
<tr>
<td>LOW TEMPERATURE FLEXIBILITY AND CRACK BRIDGING</td>
<td>ASTM C 836</td>
<td>Pass</td>
</tr>
<tr>
<td>HYDROSTATIC PRESSURE RESISTANCE</td>
<td>ASTM C 1306</td>
<td>&gt; 44 PSI</td>
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<tr>
<td>PULL ADHESION</td>
<td>ASTM D 4541</td>
<td>35.6 PSI</td>
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<tr>
<td>PEEL ADHESION</td>
<td>ASTM D 903</td>
<td>18.5 lbs/in</td>
</tr>
<tr>
<td>TENSILE STRENGTH</td>
<td>ASTM D 412</td>
<td>206 PSI</td>
</tr>
<tr>
<td>ELONGATION</td>
<td>ASTM D 412</td>
<td>361%</td>
</tr>
<tr>
<td>PERMEANCE TO WATER VAPOR TRANSMISSION</td>
<td>ASTM E 96 Method A</td>
<td>0.04 Perms</td>
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<tr>
<td>PERMEANCE TO WATER VAPOR TRANSMISSION</td>
<td>ASTM E 96 Method B</td>
<td>0.07 Perms</td>
</tr>
<tr>
<td>RESISTANCE TO HYDROSTATIC HEAD</td>
<td>ASTM D 5385</td>
<td>231 ft.</td>
</tr>
<tr>
<td>RESISTANCE TO WATER</td>
<td>ASTM D 2939 Section 15</td>
<td>No Blistering or Re- emulsification</td>
</tr>
<tr>
<td>ULTRAVIOLET (UV) RADIATION EXPOSURE LIMIT</td>
<td>By Manufacturer</td>
<td>60 Days</td>
</tr>
<tr>
<td>VOC</td>
<td>&lt; 20 g/l</td>
<td></td>
</tr>
</tbody>
</table>

B. Self-adhesive Membrane Waterproofing: Shall be Polyguard® 650 Membrane, a 60-mil rubberized-asphalt membrane consisting of a high-density polyethylene film bonded to a layer of rubberized-asphalt compound meeting or exceeding the following requirements:

PHYSICAL PROPERTIES

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>TEST METHOD</th>
<th>TYPICAL VALUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>FILM COLOR</td>
<td>Black/White</td>
<td></td>
</tr>
<tr>
<td>MEMBRANE THICKNESS</td>
<td>ASTM D 1000</td>
<td>60 mils</td>
</tr>
<tr>
<td>TENSILE STRENGTH - MEMBRANE</td>
<td>ASTM D 412 Modified Die C</td>
<td>370 PSI</td>
</tr>
<tr>
<td>ELONGATION - ULTIMATE FAILURE OF RUBBERIZED ASPHALT</td>
<td>ASTM D 412</td>
<td>600%</td>
</tr>
<tr>
<td>TENSILE STRENGTH - FILM</td>
<td>ASTM D 882</td>
<td>7294 PSI</td>
</tr>
<tr>
<td>PERMEANCE</td>
<td>ASTM E 96 Method B</td>
<td>0.022 Perms</td>
</tr>
<tr>
<td>CRACK CYCLING</td>
<td>ASTM C 836 Tested @-15°F (-26°C)</td>
<td>No effect</td>
</tr>
<tr>
<td>PEEL ADHESION (TO CONCRETE)</td>
<td>ASTM D 903</td>
<td>17 lbs./in. width</td>
</tr>
<tr>
<td>PEEL ADHESION (LAPS – MEMBRANE TO MEMBRANE)</td>
<td>ASTM D 903</td>
<td>19 lbs./in. width</td>
</tr>
<tr>
<td>LAP PEEL ADHESION</td>
<td>ASTM D 1876</td>
<td>8.0 lbs./in. width</td>
</tr>
<tr>
<td>LOW TEMPERATURE FLEXIBILITY (-15°F)</td>
<td>ASTM D 1970 Modified</td>
<td>Pass</td>
</tr>
<tr>
<td>PLIABILITY</td>
<td>ASTM D 146 180° bend over 1” mandrel at -25°F (-32°C)</td>
<td>No effect</td>
</tr>
<tr>
<td>PUNCTURE RESISTANCE - MEMBRANE</td>
<td>ASTM E 154</td>
<td>69 lbs.</td>
</tr>
<tr>
<td>RESISTANCE TO HYDROSTATIC HEAD</td>
<td>ASTM D 5385</td>
<td>231 ft.</td>
</tr>
<tr>
<td>EXPOSURE TO FUNGI IN SOIL</td>
<td>GSA-PBS 07115 (16 weeks)</td>
<td>No effect</td>
</tr>
<tr>
<td>WATER ABSORPTION</td>
<td>ASTM D 570</td>
<td>0.1%</td>
</tr>
</tbody>
</table>
C. Self-adhesive Membrane Waterproofing: Shall be Polyguard® Underseal® PRM™ (Puncture Resistant Membrane), a strong, 65-mil self-adhering sheet membrane consisting of a double-thick, high-strength, cross-laminated, polyethylene backing laminated to a thick layer of rubberized-asphalt compound meeting or exceeding the following requirements:

**PHYSICAL PROPERTIES**

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>TEST METHOD</th>
<th>TYPICAL VALUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>FILM COLOR</td>
<td></td>
<td>White</td>
</tr>
<tr>
<td>MEMBRANE THICKNESS</td>
<td>ASTM D 1000</td>
<td>65 mils</td>
</tr>
<tr>
<td>LOW TEMPERATURE FLEXIBILITY</td>
<td>ASTM D 146 180° bend over 1” mandrel at -25°F</td>
<td>No effect</td>
</tr>
<tr>
<td>RESISTANCE TO HYDROSTATIC HEAD (MINIMUM)</td>
<td>ASTM D 5385</td>
<td>231 ft.</td>
</tr>
<tr>
<td>ELONGATION - ULTIMATE FAILURE OF RUBBERIZED ASPHALT</td>
<td>ASTM D 412</td>
<td>&gt;850%</td>
</tr>
<tr>
<td>TENSILE STRENGTH OF 1” WIDTH</td>
<td>ASTM D 412 Modified Die C</td>
<td>5000 PSI</td>
</tr>
<tr>
<td>CRACK CYCLING</td>
<td>ASTM C 836 Tested @-15°F</td>
<td>No effect</td>
</tr>
<tr>
<td>PUNCTURE RESISTANCE, MINIMUM</td>
<td>ASTM E 154 Membrane using 1” (24mm) Rod</td>
<td>127 lbs.</td>
</tr>
<tr>
<td>PEEL ADHESION TO CONCRETE</td>
<td>ASTM D 903</td>
<td>17 lb/in.</td>
</tr>
<tr>
<td>LAP PEEL ADHESION</td>
<td>ASTM D 1876 Modified¹</td>
<td>8.0 lb/in width</td>
</tr>
<tr>
<td>PERMEANCE TO WATER VAPOR TRANSMISSION</td>
<td>ASTM E 96 Method B</td>
<td>0.01 US grains/ft²/in HGF</td>
</tr>
<tr>
<td>WATER ABSORPTION (MINIMUM)</td>
<td>ASTM D 570</td>
<td>0.1%</td>
</tr>
<tr>
<td>RESISTANCE TO PERMEANCE BY METHANE GAS</td>
<td>ASTM D 1434 Tested using 99.99% purity methane</td>
<td>6.3 x 10⁻⁷ ft³/(ft² • hr • psi)</td>
</tr>
<tr>
<td>RESISTANCE TO RADIOACTIVE RADON GAS</td>
<td>Radon Reduction Technology Laboratory</td>
<td>97.10%</td>
</tr>
<tr>
<td>RESISTANCE TO FUNGI IN SOIL</td>
<td>GSA-PBS 07115 (16 weeks)</td>
<td>No effect</td>
</tr>
</tbody>
</table>

¹Test is done using smaller sample than standard and at room temperature.

2.03 SYSTEM ACCESSORIES

A. Surface Primer Roller-grade Adhesive:

1. Polyguard® 650 LT Liquid Adhesive: A rubber-based, tacky adhesive which is specifically formulated to provide excellent adhesion.

B. Detail Tape:

2. Polyguard® Detail Tape: Rubberized-asphalt waterproofing membrane laminated to polypropylene backing. The membrane is wound onto a disposable, silicone-treated release sheet to prevent the membrane from sticking onto itself while in the roll. Use Detail Tape for applications (1) inside/outside corners and penetrating items (2) for patching damaged areas.

C. Detail Sealant:

1. Polyguard® Detail Sealant PW™: A single-component, STPE, 100% solid moisture-cured, elastomeric sealant. It is an environmentally-friendly, non-isocyanate product that replaces silicone and urethane sealants. It is also a low VOC / HAPS-free, cold-applied, self-adhesive, elastomeric sealant.

D. Drainage Composite:

1. Polyguard® BD Drainage Mat: A sheet molded drainage for balcony decks with less than 3-inches of concrete and foot traffic only. It is manufactured with a geocomposite of a formed impermeable polymeric core covered on one side with a non-woven filter fabric that allows water to flow to designated drainage exits.

2. Polyguard® Polyflow® 15P Drainage Mat: Two-part, prefabricated, geocomposite drain consisting of a formed polymeric core covered on one side with polymeric filter fabric with a protection layer of PET film. The fabric allows water to pass into the

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Polyguard® Polyflow® 18 Drainage Mat: Two-part, prefabricated, geo-composite drain consisting of a formed polymeric core covered on one side with woven monofilament filter fabric. The fabric allows water to pass into the drain core while restricting the movement of soil particles which might clog the core. The core allows the water to flow to designated drainage exits.

PART 3 EXECUTION

3.01 EXAMINATION

A. Examine surfaces to receive fluid-applied and self-adhering membranes. Notify the general contractor if surfaces are not acceptable. Do not begin surface preparation or application until unacceptable conditions have been corrected.

3.02 SURFACE PREPARATION

A. Protect adjacent surfaces not designated to receive waterproofing.
B. Clean surfaces to receive waterproofing in accordance with manufacturer's instructions.
C. Do not apply waterproofing to surfaces unacceptable to manufacturer.
D. Substrate surfaces must be clean, smooth, and dry.
E. Bridge gaps between supporting substrates with Polyguard® Detail Sealant PW™ to establish full support of the Overseal-H™ Membrane.
F. Install Overseal-H™ Membrane under restricted ambient and surface temperatures of 25°F (-4°C) and rising.
G. It is recommended that the substrate deck slope is a minimum 1/8-inch per foot for correct Overseal-H™ Membrane installation.
H. No priming is required for Overseal-H™ Membrane proper adhesion to clean, dry, and frost-free concrete and wood substrate surfaces.
I. Cast-In-Place Concrete Decking Substrate:
   1. Do not use concrete curing compounds containing oil, wax or pigments.
   2. Clean all substrate surfaces to remove debris, dust and loose stones before application begins. DO NOT apply system to frozen concrete.
   3. Minimum requirement of Concrete Surface Profile (CSP) of 1 to 5 (Application rates will vary relative to surface texture).
   4. Fill and repair single bug holes of 1/2-inch or greater, or cavities in concrete with a Portland cement grout or concrete. Single bug holes can also be filled with Detail Sealant PW. Finish flush with the surrounding surface.
   5. All cracks less than 1/16-inch in width, shall be routed out to a minimum of 1/4-inch width and sealed using Polyguard® Detail Sealant PW™. Upon skin-over, install a 4-inch wide strip of Overseal-H™ at a rate of 40 sq. ft. per gallon to achieve a 40-mil application over the crack.
   6. All cracks greater than 1/16-inch in width, shall be routed out to a minimum of 1/4-inch width and sealed using Polyguard® Detail Sealant PW™. Embed a 3-inch wide strip of Overseal Mesh into uncured Detail Sealant PW. Install a 4-inch wide strip of Overseal-H™ at a rate of 40 sq. ft. per gallon to achieve a 40-mil application on top of Overseal Mesh or until fully saturated.
   7. Horizontal to Vertical concrete transitions and penetrations, install 1/2-inch tooled cove-bead using Detail Sealant PW™. Upon skin-over, install a detail strip of Overseal-H™ Membrane, 6-inches vertically and 6-inches horizontally, at a rate of 80 sq. ft. per gallon to achieve a 20-mil application. Once base coat has skinned,
then apply a 40-mil top coat of Overseal-H™ Membrane or until fully saturated (which can be installed during field application of membrane).

J. Wood Decking Substrate:

1. Wood Decks consisting of plywood (CDX – C-side up) or OSB (smooth side up).
2. Fasteners - Approved fasteners that meet the design criteria must be inspected and flush with surface. Recessed fasteners can be addressed with Detail Sealant PW™ prior to the application of fluid-applied membrane.
3. Horizontal Board-Joints:
   a. Option A: apply a 4-inch stripe of Overseal-H™ Membrane at a rate of 80 sq. ft. per gallon to achieve a 20-mil base coat centered over the board joints that are 1/16” or less (board joints greater than 1/16” must seal with Detail Sealant PW as stated above). Embed Overseal Mesh™ reinforcing fabric into uncured base coat. Then apply, a 40-mil top coat of Overseal-H™ Membrane over the reinforcing fabric Overseal Mesh™ or until fully saturated (which can be installed during field application of membrane).
   b. Option B: apply a 4-inch stripe of Detail Sealant PW at 10 to 15 mils over the board joints that are 1/4” or less (board joints greater than 1/4” must seal with Detail Sealant PW as stated above). Embed reinforcing fabric into uncured sealant. Then apply a 40-mil top coat of Overseal-H™ Membrane over the reinforcing fabric or until fully saturated (which can be installed during field application of membrane).
4. Horizontal to Vertical wood transitions and penetrations, apply 1/2-inch fillet (cant) of Detail Sealant PW, allow to cure at a minimum of 1 hour, then apply a 20-mil base coat of Overseal-H™ Membrane 6-inches vertically and horizontally. Embed reinforcing fabric into uncured base coat. Then apply a 40-mil top coat of Overseal-H™ Membrane over the reinforcing fabric or until fully saturated (which can be installed during field application of membrane).

3.03 APPLICATION

A. Liquid Base Membrane:

1. Address all penetrations using Detail Sealant PW™ at a minimum 6-inches horizontally and 2-inches vertically.
2. Apply Overseal-H™ Membrane in the field via roller or squeegee to horizontal surface(s), in a single pass, at a rate of 40 sq. ft. per gallon for a 40 mil base coat.
3. Allow Overseal-H™ Membrane to cure for 12-24 hours.
4. Protect Overseal-H™ Membrane from contamination.
5. Cover all inside corners with a minimum 12-inch-wide sheet membrane 6-inches vertically/6-inches horizontally with the membrane being relative to the application, such as 105-12 Flashing.
6. Install Polyguard sheet membrane relative to the application, such as 650 Membrane or PRM™.

B. Membrane Installation:

1. Transition membrane from horizontal to vertical shall be treated with a minimum 12-inch strip (6-inches onto horizontal surface and 6-inches onto vertical surface) of Polyguard® Detail Tape, 650 Membrane, PRM™. If metal flashing is utilized in the system, apply membrane over the metal flashing extending 2-inches beyond the flashing onto the substrate, both horizontally and vertically. (Perimeter detailing and flashing can be installed prior to or after field membrane, relative to the sequencing of the project).
2. If the field sheet membrane is applied within a 24-hour period of the Overseal-H™ Membrane, and the Overseal-H™ Membrane surface has remained dry and free of jobsite dust, then priming is not required over the Overseal-H™ Membrane.

When a Overseal-H™ Membrane surface becomes contaminated with water or jobsite dust, or if the Overseal-H™ Membrane is exposed to the elements greater than 24 hours prior to the field sheet membrane application, then apply a primer coat of Polyguard® 650 LT Liquid Adhesive or California Sealant at a rate of 400–500 SF/gallon and allow the Adhesive / Sealant to dry before covering with the field sheet membrane. Apply field sheet membrane to the primed surface starting at the low point and working to the high point in a shingling technique for maximum drainage.

3. Side laps should be 2-1/2 inches minimum and staggered end laps should be 6-inches minimum, with all cut edges receiving a minimum 30-mil tooled bead of Detail Sealant PW.

4. Firmly roll the entire field sheet membrane with a minimum 75 lb. linoleum roller immediately after application. This will ensure proper adhesion and minimize air pockets between the substrate and membrane.

5. At drains, seal joint between drain body and substrate with Polyguard Detail Sealant PW.

6. Membrane turned up on walls shall be terminated. Firmly press the terminated edge with a hand roller and protect the edge with a minimum 30-mil tooled bead of Detail Sealant.

7. Inadequately lapped seams and damaged areas shall be patched with additional sheet membrane. Extend patch at least 6 inches in all directions beyond the defect, then seal all patch edges with a minimum 30-mil tooled bead of Detail Sealant PW.

8. Slit all "fishmouths," overlap the pieces, place patch over area and roll in place. Air blisters are typically caused by exposure and heat; this condition will subside as the sun no longer heats the membrane. This condition does not need attention unless blisters are large or excessive, softball size, and do not dissipate. Puncture large air blisters, expel the air, prime and cover with patch. Extend the patch material at a minimum of 6 inches in all directions beyond the repair area, then seal the patch edges with a minimum 30-mil tooled bead of Detail Sealant PW.

9. Upon completion of Dual Core Horizontal Waterproofing Membrane system application, Polyguard recommends a flood test or appropriate leak detection method be completed on the surface with 2 inches of water for 24 hours. Check with the structural engineer to make sure the deck structure will withstand the weight of the flood test. Mark any leak areas found during flood test and make repairs. Electro-Field Vector Mapping (EFVM) is an acceptable alternative to flood testing.

10. Protect the Polyguard® Overseal-H™ Membrane, field sheet membrane surfaces, and sealant applications from damage until the protection board, Polyflow® BD or Polyflow® 18 layer has been installed. Isolate completed work areas from construction, foot, and equipment traffic. Restrict foot and equipment traffic onto completed work with temporary walkways of protection material, Polyflow® BD or Polyflow® 18.

C. Protection and Drainage Course:

1. Apply protection board, Polyflow® BD or Polyflow® 18 drainage composite in accordance with manufacturer's written directions and recommendations.

2. Cover the field sheet membrane within thirty (30) days to prevent impaired performance due to prolonged exposure to sunlight.

END OF SECTION