

8245 Remmet Ave Canoga Park, CA. 91304 (818) 888-0050

**Installation Instructions - AVM System 502**  
**AUSSIE MEMBRANE - Fluid Applied Waterproofing Membrane**

**Table of Contents**

General .....	2
Description.....	2
Approvals.....	2
Applicator.....	2
Product Delivery, Storage and Handling .....	2
Limitations.....	2
Acceptable Substrates.....	2
Safety.....	2
Tools Needed for Application.....	2
Products .....	3
Aussie Membrane Materials .....	3
Substrate Inspection and Preparation.....	3
Inspection of Concrete or Block Wall Substrates .....	3
Preparation of Concrete and Block Wall Substrates .....	3
Membrane Installation Instructions .....	3
Primer (Optional).....	3
Reinforcement (Optional).....	3
Aussie Membrane Installation .....	4
Mixing: .....	4
Application: (Roller/Brush) .....	4
Application: (Spray) .....	4
Membrane Inspection .....	5
Flood Testing Specifications .....	6
Protection Board / Drainage Board / Drainage System Specifications .....	6
Repairing Damage to the AVM System 502, Aussie Membrane <u>(When the substrate is not damaged)</u> .....	7
Damage Description (1).....	7
Damage Description (2).....	7
Damage Description (3).....	7
Repairing Damage to the AVM System 502, Aussie Membrane <u>(When the substrate is damaged)</u> .....	7
Damage Description (4).....	7
Coverage Charts & Technical Information.....	8
Technical Data .....	8
General Information .....	9
Packaging: .....	9
Shipping Weights: .....	9

8245 Remmet Ave Canoga Park, CA. 91304 (818) 888-0050

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## Installation Instructions - AVM System 502 AUSSIE MEMBRANE - Fluid Applied Waterproofing Membrane

### General

#### **Description**

The AVM System 502, AUSSIE MEMBRANE is a vapor-proof, brown rubber/bitumen liquid emulsion with excellent adhesion, which dries to a tough, black seamless flexible waterproof membrane. The AUSSIE MEMBRANE is a thixotropic cold-applied bitumen emulsion with added rubber latex. It exhibits excellent elongation and recovery properties.

#### **Where To Use**

**Walls:** Waterproof below-grade concrete and block walls, basements and wet rooms.

**Floors:** In-between slab waterproofing. To provide a sandwich membrane in-between two concrete slabs.

**Planters:** Waterproof planters and other landscaping features.

**Balconies:** For waterproofing under concrete toppings on balconies, walkways and other common areas (Including over living space). concrete topping (sometimes referred to as hard rock) must be a minimum 2.5" thick and minimum 2500 PSI.

**Under Tile:** Waterproof under terrazzo and ceramic tile applications when using a thick-set or mud-bed over the membrane.

#### **Approvals**

AVM System 502, AUSSIE MEMBRANE meets AC-29 Testing Standards. (These standards are used by ICBO/ICC for below-grade fluid applied waterproofing membranes testing).

#### **Applicator**

The applicator shall either be an AVM Industries Authorized Installer or be completely experienced in the application of the materials of this system and has read and understood these installation instructions prior to commencing the work.

#### **Product Delivery, Storage and Handling**

- A. Delivery of all the AVM System 502 materials to the job site must be in their original sealed containers, with the manufacturer's name and label intact.
- B. Store at temperatures between 50°F and 90°F. Do not store materials in direct sunlight or where they may be damaged by water or rain.
- C. Keep all materials out of the reach of children.
- D. If irritation occurs during use, liberally flush affected areas with water. If irritation continues, see a physician immediately.

#### **Limitations**

Temperatures: Do not apply when temperatures cannot be maintained above 50°F for a minimum of 48 hours or until cured or if precipitation is imminent. Do not apply materials in direct sunlight at temperatures above 100°F.

UV Resistance: Install acceptable protection as soon as the membrane has cured. Do not leave membrane exposed to UV for more than 14 days! Strictly adhere to the Installation Instructions. Failure to do so, may result in the membrane's failure.

Green/Wet Concrete: Substrates do not need to be fully cured. The Aussie Membrane may be applied to damp surfaces. Do not apply the Aussie Membrane to waterlogged surfaces. If substrates are oozing water, allow 24 hours cure time after water has stopped oozing prior to installing the Aussie Membrane.

8245 Remmet Ave Canoga Park, CA. 91304 (818) 888-0050

---

## **Installation Instructions - AVM System 502 AUSSIE MEMBRANE - Fluid Applied Waterproofing Membrane**

PSI: On traffic bearing surfaces, concrete substrates shall achieve a min compression strength of 2000 psi prior to installation.

### **Acceptable Substrates**

Concrete substrates exceeding 2000 psi, concrete blocks (CMU), ICF (Insulated Concrete Forms)

Steam Rooms: Maximum temperatures for the AVM System 502 are 167<sup>0</sup>F or 75<sup>0</sup>C.

### **Safety**

No special protective gear is required during the application of the system materials, except safety glasses for eye protection.

### **Tools Needed for Application**

A. Cutting Knife                      B. Brush                      C. Roller (Helpful for large areas)                      D. Airless or other sprayer if spraying

## **Products**

### **Aussie Membrane Materials**

\$ Aussie Primer (Solvent based) or Primer 500 (Water-Based) supplied in 5 gallon buckets.

\$ Aussie Membrane supplied in 5 gallon buckets..

\$ Optional reinforcement: AVM Mat 800, Polyester Stitchbond, 6"x300' and 40"x324', as supplied by AVM Industries.

## **Substrate Inspection and Preparation**

### **Inspection of Concrete or Block Wall Substrates**

- A. Substrates shall be sound, stable, clean, free of dirt, dust, oil, grease and curing agents.
- B. Concrete finish shall be straight without waviness or noted defects, finished with a light broom surface texture. Block walls to have all grout lines filled up!
- C. Damaged surfaces with noted defects shall be repaired prior to commencement of the Aussie Membrane application.
- E. On horizontal surfaces, Verify that substrate provides adequate slope for proper drainage. (Minimum slope: 1/4" per foot)
- F. When applicable, verify that all sheet metal flashing and related accessories are properly secured and joints solidly imbedded in sealant. Install edging and other related metals where shown or required for a complete installation.
- G. Expansion Joints: DO NOT COVER EXPANSION JOINTS! If expansion joints exist, contact the architect or AVM Industries for further instructions on how they should be waterproofed.

### **Preparation of Concrete and Block Wall Substrates**

- A. Remove latence, oil, grease, curing agents, debris and other deleterious materials from surfaces scheduled to receive application. On horizontal, older, or very dirty substrates, high pressure washing or bead blasting are highly recommended. If needed, apply a thin slurry coat of AVM Crete 6200.

8245 Remmet Ave Canoga Park, CA. 91304 (818) 888-0050

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**Installation Instructions - AVM System 502**  
**AUSSIE MEMBRANE - Fluid Applied Waterproofing Membrane**

- B. Clean hairline or small cracks and rout out all cracks wider than 3/16 inch. Seal the large cracks flush with Sika Flex 1A or equivalent caulking.
- C. Cold Joints and other wall-to-deck joints: Wherever possible, install a 45 degree cant strip at these joints. Minimum cant strip size shall be 3"x3". Failure to install cant strips could cause premature failure of the membrane and void the warranty.
- C. Just prior to beginning the installation of the Aussie Membrane, thoroughly clean the areas to receive this work with a broom or blower to remove all debris and dust from the work area.

**System Application**

*Important Note: The following material coverages may vary based on job conditions, Substrate conditions and other factors. Please read the coverage charts carefully prior to the application of the Aussie Membrane.*

**Membrane Installation Instructions**

**Primer (Optional)** AVM Industries highly recommends applying a primer prior to installing the Aussie Membrane. Always apply the primer when installing the Aussie Membrane over horizontal surfaces. There are two primers to choose from. Aussie Primer, a black, solvent based primer or Primer 500, a blue, water-based primer. Apply either primer using a roller, brush or sprayer. Allow to cure. Typical cure time is less than 30 minutes at 75°F with 50% relative humidity.

**Reinforcement (Optional)** Reinforce all cracks, joints and corners by covering them with the 6" fabric embedded in some of the Aussie Membrane material. Apply a second layer of the 6" fabric and Aussie Membrane material at critical corners and areas subjected to stress or movement. Allow to dry until dry to the touch before proceeding to the next step. Reinforcing corners and other critical areas helps strengthen the membrane in the most critical areas, thus reducing potential failures.

8245 Remmet Ave Canoga Park, CA. 91304 (818) 888-0050

## Installation Instructions - AVM System 502 AUSSIE MEMBRANE - Fluid Applied Waterproofing Membrane

**Aussie Membrane Installation** - Standard Warranty (For extended warranty applications, see last page)

Apply the Aussie Membrane using a roller, brush or sprayer. Minimum thickness of the completed, cured membrane shall be as follows:

Installation Guidelines			
Depth Range	Min Thickness of Cured Membrane	Authorized Installer Required	Types of Protection & Drainage System Required
Up to 4 feet deep	60 Mils	No	(Protection Board) or (Drainage Board), + (French Drain)
4-8 feet deep	60 Mils	Recommended	(Protection Board) or (Drainage Board), + (French Drain)
8-14 feet deep	90 Mils	Yes	(Drainage Board), + (French Drain)
14-20 feet deep	120 Mils	Yes	(Drainage Board), + (French Drain)
Deeper than 20 feet	Consult AVM Industries before proceeding with membrane installation		
Protection Types:	<b>Protection Board</b> , 1/4" thick foam. (Amoco., Dow, Insulfoam, or equal) <b>Drainage Board</b> with min 3/8" cores. (Mira-Drain 6000, Delta-Drain 6000, or equal) (Horizontal applications require special drainage board. Consult drainage board manufacturer or AVM for details) Drainage board must cover entire area of Aussie Membrane! <b>French Drain</b> system or other acceptable means to remove water and release hydrostatic pressure. French Drain System Specs: Must be perforated pipe min 4" diameter and wrapped in geotextile fabric.		
Notes:	1. Mils thickness specifications are for ADRY FILM® thickness 2. French Drain system or equal is not applicable for installations over horizontal surfaces. 3. French Drain recommended, but not required for applications less than 18" deep. 4. Cant strips at 45° are required at cold joints and other horizontal/vertical intersections. 5. On applications over block walls (CMU) less than 8 feet deep, 90 mils dry thickness recommended.		

**Mixing:** Mixing the Aussie Membrane causes the material's viscosity to drop considerably. When opening the bucket, the material has a viscosity similar to grease. Mixing the Aussie Membrane with a drill and paddle for 30-60 seconds, will change the material's viscosity to be like paint. This does not harm the material. Furthermore, after 72 hours, if left in a sealed bucket, the Aussie Membrane will return to its original viscosity. Using the Aussie membrane in its thinner form is very useful in the following situations:

1. If spraying the Aussie Membrane material.
2. When a primer is not used, the first coat should be applied thin for better penetration and improved bonding.

**Application: (Roller/Brush)**

**First Coat:** Apply a liberal coat of the Aussie Membrane to all surfaces. Apply rolling up and down. Allow to cure until dry to the touch. Typically, 2-4 hours at 75°F and 50% relative humidity.

**Second Coat:** Apply a second coat of the Aussie Membrane rolling side to side. Allow to dry to the touch.

**Membrane Inspection:** Check for pinholes, crack bridging and proper thickness using a mil gauge. If gaps or cracks still exist (such as cracks between the block and the grout are still visible) fill these gaps with caulking such as Sika Flex 1A or equal. After caulking cures, apply another coat of the Aussie Membrane to cover all the caulked areas. Make sure the has membrane reached its minimum required thickness in all areas per the table above. Continue applying coats as described above until the required thickness has been achieved! Full cure is typically achieved after 24 hours. Drying times may vary based on temperature, humidity and other factors. Applying a third coat is highly recommended.

**Application: (Spray)**

Mix contents in the bucket with drill and paddle for 30 - 60 seconds. Product will thin out significantly. (The thinning does not affect performance) Do NOT add water! Use an airless or other sprayer to apply. (For sprayer specifications, contact AVM Industries) Apply product spraying up and down until saturated but stop before dripping or sagging occurs. Once dry to the touch, apply a second coat

8245 Remmet Ave Canoga Park, CA. 91304 (818) 888-0050

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## **Installation Instructions - AVM System 502**

### **AUSSIE MEMBRANE - Fluid Applied Waterproofing Membrane**

spraying side to side. Check for pinholes and proper thickness using a mil gauge. Make sure the membrane reached its minimum required thickness per the table above. Continue spraying additional coats as described above until the required thickness has been achieved! Full cure is typically achieved after 24 hours. Drying times may vary based on temperature, humidity and other factors.

#### ***Important Note:***

Although it is possible to spray 60 dry mils in one coat, doing so in two coats reduces the chances of leaving spots and pinholes uncovered or with too little product.

#### **Membrane Inspection**

1. Visually inspect all coated surfaces to ensure a full adhesion and proper coating application, especially at corners, drainage areas, footings and other hard-to-reach areas.
2. Carefully inspect the membrane for pinholes. (The membrane should be completely and evenly sealed) If pinholes are found, apply additional coats of the Aussie Membrane until the imperfections are sealed.
3. If bubbles, or other imperfections are found, remove them and the surrounding area by cutting them out and reinstalling the membrane per the membrane installation instructions.
4. **Flood testing is highly recommended whenever possible. Do not flood test until membrane has fully cured!**

#### **The Following Pages Contain the Specifications Listed Below:**

1. Flood Testing Procedures
2. Protection Board / Drainage Board / Drainage System Specifications
3. Repair Specifications
4. Coverage Charts and Technical Information

8245 Remmet Ave Canoga Park, CA. 91304 (818) 888-0050

## Installation Instructions - AVM System 502 AUSSIE MEMBRANE - Fluid Applied Waterproofing Membrane

### Flood Testing Specifications

It is not always practical or feasible to do a flood test, but when it can be done it can be very helpful in finding leaks and fixing them quickly and inexpensively. Examples: 1. Planter boxes where the drains can be sealed and the planter boxes filled with water. 2. In some applications, the Aussie Membrane is berried underneath the finished surfaces (such as tile or concrete topping) and is not readily accessible for repairs. If leaks are found, the only way to repair them would be to remove the tile or topping, repair the damaged membrane, and then reinstall the tile or topping. This would be time consuming, inconvenient and costly. If all possible, dam these areas and fill with water to test for waterproofness before proceeding to the next step.

Flood testing provides an efficient and economical method to test the waterproofness of the membrane prior to proceeding with the installation of the protective component or the finished surfaces. Following are some guidelines for flood testing.

5. **Make sure the membrane is fully cured!**
6. Visually inspect corners and other hard to reach areas for openings where water might penetrate.
7. Fix all openings prior to proceeding with the flood test
8. Close the drains using drain plugs or other methods
9. Be careful not to damage the membrane while walking on it or plugging the drains.
10. Slowly fill the deck area with water. Do not overfill! Be extra careful when flood testing on decks built over wood substrates! The extra weight of the water could cause damage or cause the deck to collapse. If you are not sure the deck can support the extra weight of the water, consult with an architect or structural engineer before flood testing!

### Protection Board / Drainage Board / Drainage System Specifications

- PB:** Protection Boards: Several types of Protection Boards are commonly used and acceptable for use with the Aussie Membrane.
1. 1/4" fanfold foam boards such as Amoco, Dow or Insulfoam.
  2. Foam panels, typically 2" thick or more.
  3. Protective panels 4'x8' 1/4" or thicker made by Gardner/Apoc or equal.
- DB:** Drainage Boards: Several types of Drainage Boards are commonly used and acceptable for use with the Aussie Membrane.
1. For vertical applications use Drainage Boards with a minimum 3/8" thick cores, such as Mira-Drain 6000 or equal.
  2. For horizontal applications use horizontal type Drainage Boards such as Mira-Drain 9000 or equal. Prior to installing Drainage Boards on horizontal applications, consult with AVM or the Drainage Board manufacturer for the correct boards to be used!
- A system to release hydrostatic pressure must be installed in all areas greater than 2 feet deep or if wall runs are longer than 30 feet.
- FD:** French Drains: At footings, cold joints and other areas where water could accumulate, use a french drain system (or other approved method) to remove water and release hydrostatic pressure. If weep-holes are used, make sure to cover the weep-hole=s entrances with gravel, fabric or other acceptable means to prevent the weep-holes from clogging. Make sure a sufficient number of weep-holes are installed and that they are large enough to handle the amounts of water expected to pass thru them.

8245 Remmet Ave Canoga Park, CA. 91304 (818) 888-0050

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**Installation Instructions - AVM System 502  
AUSSIE MEMBRANE - Fluid Applied Waterproofing Membrane**

<b>Repairing Damage to the AVM System 502, Aussie Membrane (<u>When the substrate is not damaged</u>)</b>
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**Damage Description (1)**

A leak or a bad section of the Aussie Membrane is detected. No protection or finished surfaces are installed.

**Method of Repair**

1. Cut out an area of the membrane 6" larger in diameter than the defective area.
2. Clean the substrate of any loose materials using a scraper or a stiff brush.
3. Remove anything else that might prohibit bonding of the new materials.
4. Reapply the Aussie Membrane to the damaged area following the appropriate installation instructions. (min 4" overlap)
5. Allow to properly cure. Once cured, visually inspect the repaired area for imperfections.
6. Continue to add layers until the proper thickness is achieved.
7. (Optional) Do another flood test.

**Damage Description (2)**

A leak or a bad section of the Aussie Membrane is detected. Protection/Drainage Board is installed. No finished surfaces are installed.

**Method of Repair**

1. Remove Protection/Drainage boards from an area 9"-12" larger in diameter than the defective area.
2. Cut out an area of the membrane 6" larger in diameter than the defective area.
3. Clean the substrate of any loose materials using a scraper or a stiff brush.
4. Remove anything else that might prohibit bonding of the new materials.
5. Reapply the Aussie Membrane to the damaged area following the appropriate installation instructions. (min 4" overlap)
6. Allow to properly cure. Once cured, visually inspect the repaired area for imperfections.
7. Continue to add layers until the proper thickness is achieved.
8. (Optional) Do another flood test.
9. Re-install Protection/Drainage Board.

**Damage Description (3)**

A leak or a bad section of the Aussie Membrane is detected. Protection/Drainage Board is installed. Topping surface is installed as well.

**Method of Repair**

8245 Remmet Ave Canoga Park, CA. 91304 (818) 888-0050

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**Installation Instructions - AVM System 502**  
**AUSSIE MEMBRANE - Fluid Applied Waterproofing Membrane**

1. Gently as possible, remove the finished surface from an area 16"-24" larger in diameter than the defective area. Be careful not to damage the membrane underneath!
2. Remove Protection/Drainage boards from an area 9"-12" larger in diameter than the defective area.
3. Cut out an area of the membrane 6" larger in diameter than the defective area.
4. Clean the substrate of any loose materials using a scraper or a stiff brush.
5. Remove anything else that might prohibit bonding of the new materials.
6. Reapply the Aussie Membrane to the damaged area following the appropriate installation instructions. (min 4" overlap)
7. Allow to properly cure. Once cured, visually inspect the repaired area for imperfections.
8. Continue to add layers until the proper thickness is achieved.
9. (Optional) Do another flood test.
10. Re-install Protection/Drainage Board.
11. Re-Install Finished Surface Materials.

<b>Repairing Damage to the AVM System 502, Aussie Membrane (When the substrate is damaged)</b>
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**Damage Description (4)**

A leak or a bad section of the AVM Membrane 700 is detected and the substrate is damaged as well.

**Method of Repair**

You MUST contact AVM Industries, an authorized AVM Industries installer or a professional contractor to review the damage. Since the substrate is damaged, the repairs must be done very carefully to ensure the Fire Resistance and or the Structural Strength of the deck is not compromised during and after the repairs!

8245 Remmet Ave Canoga Park, CA. 91304 (818) 888-0050

**Installation Instructions - AVM System 502  
 AUSSIE MEMBRANE - Fluid Applied Waterproofing Membrane**

**Coverage Charts & Technical Information**

*The following coverages are based on controlled tests. Actual coverages may vary.*

Materials	One Kit Makes	One Kit Covers at 1/16" Thick
Optional Slurry Coat - AVM Crete 6200	4 Gallons of Mixed Product	80 - 100 Square Feet
Weight of 1 Sqft of AVM Crete 6200 installed and Cured		1 Sqft at 1/16" thick = ~0.625 Lbs

Materials	Over Block Walls (CMU)	Over Concrete
<b>Aussie Primer 100</b> (Optional) Solvent - Low VOC	150-200 Sqft/gal	200-300 Sqft/gal
<b>AVM Primer 500</b> (Optional) Water-Based Primer	150-200 Sqft/gal	200-300 Sqft/gal
<b>Aussie Membrane</b> (Paste)	22-25 Sqft/gal at 60 Dry Mils	25 Sqft/gal at 60 Dry Mils
<b>Matt 800</b> 6"x300 feet long for cant strips & corners	270-300 Feet. Allow 5%-10% waste	270-300 Feet. Allow 5%-10% waste

<b>Technical Data - AVM System 502, AUSSIE MEMBRANE</b>		
Color:	Dark brown. After drying: black	
Specific Gravity:	1.189 gr/cm <sup>3</sup>	
Flash Point:	Non-flammable	
Service Temperature:	151F-1771F (-101C to +801C)	
Application Temperature:	421F-1321F (+51C to 551C)	
Tensile Strength:	>15.4 Lbs (>7 kg)	ASTM D412
Elongation at break:	>1000%	ASTM D412
Resistance to water pressure 1 tm 24 hr	Passed	ASTM D751
Water vapor transmission	4.0 gr/m <sup>2</sup> 24 hr	ASTM D96
Recovery	85%	IS 1536
Creep At 1771F (801C)	No Creep	DIN 52123
Resistance to Standing Water	Passed	ASTM D2939
Bacterial Attack in soil 30 days @ 1051F (401C)	Passed	ASTM D2939
Crack bridging	>3/16" (>5mm)	IS 1731
Certifications:	ISO 9002, Green Label, I.Q. Net (International Certification Network)	

8245 Remmet Ave Canoga Park, CA. 91304 (818) 888-0050

## Installation Instructions - AVM System 502 AUSSIE MEMBRANE - Fluid Applied Waterproofing Membrane

General Information - AVM System 502, AUSSIE MEMBRANE	
Shelf Life: (Liquids)	One year from manufacturing date in original unopened packaging.
Storage Conditions:	Store dry/shade at 50-90F. If frozen, discard
Cement Mixing Ratio:	One 50 Lbs bag Aggregate 200 to 1.0-1.25 gal additive 7400
Aussie Primer Color	Black
Primer 500 Color	Blue
Aussie Membrane Color:	Black
Additive Color:	AVM Additive 7400 is Milky/Clear
Slurry Coat	AVM Crete 6200 is Gray.
Slurry Coat Strength:	AVM Crete 6200 achieves over 6200 PSI when cured, providing excellent protection and bonding

<b>Packaging:</b>	AVM Aggregate 200 .....50 LB Bag AVM Additive 7400..... 2.0/5.0 Gal pails Aussie Primer..... 5.0 Gal pail AVM Primer 500 ..... 5.0 Gal pail Aussie Membrane ..... 5.0 Gal pail Mat 800 6" wide x 300 Ft. Long .....150 Sq. Ft	<b>Approximate Shipping Weights:</b>	AVM Aggregate 200 ..... 50 Lbs/Bag AVM Additive 7400 2.0/5.0 Gal..... 18/46 Lbs Aussie Primer ..... 43.75 Lbs AVM Primer 500 .....44.0 Lbs Aussie Membrane .....52.5 Lbs Mat 800 6" wide x 300 Ft. Long .....3.0 Lbs
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8245 Remmet Ave Canoga Park, CA. 91304 (818) 888-0050

**Installation Instructions - AVM System 502**  
**AUSSIE MEMBRANE - Fluid Applied Waterproofing Membrane**

**Applications with Extended Warranties**

**Aussie Membrane Installation - Extended Warranty**

Apply the Aussie Membrane using a roller, brush or sprayer. Minimum thickness of the completed, cured membrane shall be as follows:

Installation Guidelines			
Depth Range	Min Thickness of Cured Membrane	Authorized Installer Required	Types of Protection & Drainage System Required
Up to 4 feet deep	90 Mils	Yes	(Protection Board) or (Drainage Board), + (French Drain)
4-8 feet deep	120 Mils	Yes	(Drainage Board), + (French Drain)
8-14 feet deep	150 Mils	Yes	(Drainage Board), + (French Drain)
14-20 feet deep	180 Mils	Yes	(Drainage Board), + (French Drain)
Deeper than 20 feet	Consult AVM Industries before proceeding with membrane installation		
Protection Types:	<p><b>Protection Board</b>, 1/4" thick foam. (Amoco,, Dow, Insulfoam, or equal)  <b>Drainage Board</b> with min 3/8" cores. (Mira-Drain 6000, Delta-Drain 6000, or equal) (Horizontal applications require special drainage board. Consult drainage board manufacturer or AVM for details) Drainage board must cover entire area of Aussie Membrane!  <b>French Drain</b> system or other acceptable means to remove water and release hydrostatic pressure. French Drain System Specs: Must be perforated pipe min 4" diameter and wrapped in geotextile fabric.</p>		
Notes:	<p>1. Mils thickness specifications are for ADRY FILM@ thickness  2. French Drain system or equal is not applicable for installations over horizontal surfaces.  3. French Drain recommended, but not required for applications less than 18" deep.  4. Cant strips at 45° are required at cold joints and other horizontal/vertical intersections.  5. On applications over block walls (CMU) less than 8 feet deep, 90 mils dry thickness recommended.</p>		