



# Aussie Guard™ Pre-Installation Conference Guide (Below Grade) for Shotcrete in Water Table Applications

## Aussie Guard™ Warranty Requirements

1. AVM product warranty eligibility (reference Product Manuals for product applications and installation instructions):
2. Installer: AVM products must be installed by an AVM trained Approved Applicator
3. Project waterproofing details must be installed in accordance with AVM's standard published and project-specific waterproofing details. All details must be approved by the designer.
4. Pre-Installation Conference: A pre-installation conference shall be held before the commencement of field operations to establish procedures to maintain optimum working conditions and to coordinate this work with related and adjacent work. Agenda for the meeting shall include a review of special details and flashing.  
**Required Attendees: AVM Representative, Approved Applicator, Approved Independent Inspector, Owners Representative, Architect, General Contractor, Concrete Contractor, Waterproofing Consultant, Electrical, Plumbing, Carpentry, Rebar Contractors and all other relevant trades.**
5. Inspections: Project must be inspected by an AVM approved 3rd Party Independent Inspection firm. Field reports should be completed and sent to all parties within 24 hours of the inspection. Inspection Requirements will be reviewed during pre-installation conference.
6. Aussie Swell Red water stop to be utilized in all cold-pour joints, around penetrations and other applicable details.
7. Warranty Issuance:
  - Issued upon substantial completion of the waterproofing system as defined in the construction documents.
  - All open Action Items must be addressed and verified by the independent Inspection Firm before project completion.
  - Independent Inspection Firm/Approved Applicator must be paid in full.
8. For all Shotcrete Projects in the water table, AVM will require a warranty fee of \$1.00 per square foot on vertical shotcrete walls in the water table. No injections will take place until the warranty fee is paid by the owner, and payment must be submitted within 30 days of substantial completion. Failure to pay the warranty fee within 30 days of substantial completion will result in a standard five-year material warranty.

Date:

Project Name:

City / State:

Product(s):

Product Sq Ft (each product):

Warranty Duration:





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## Product Application/Job Conditions:

### Construction Type:

Post-Applied  
Pre-Applied  
Underslab

### Foundation Wall Type:

Cast-In-Place  
Shotcrete  
Cmu (Not In Water Table)  
Pre-Cast

### Shoring System:

Shotcrete  
Metal Sheet Piling  
Caisson I-Beam  
Plywood  
Wood Lagging  
Concrete Soil Mix

• Hydrostatic Condition: Y or N Water Table Depth:

• Water Management System: Y or N

– If yes, how will it be detailed?

- When using shotcrete or cast-in-place concrete, AVM requires walls be placed in strict accordance with ACI 506.2-95 Core Grade 1 or 2 standards. If core grades are below those standards it will void AVM warranties as all waterproofing is dependent on well consolidated concrete.





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## Project Detail Review:

### Substrate Type and Requirements:

Subbase  
(mud slab or compacted fill)

Vertical Wall  
(CDSM, Wood Lagging, etc.)

### Horizontal

- Smooth, free of sharp edges and firm
- Properly compacted earth/aggregate
- No gaps greater than a 1/2 inch in depth or width

### Vertical

- Smooth, free of sharp edges
- Nails/Fasteners must be recessed
- No gaps greater than:
  - Aussin Skin directly over substrate: 1/2 inch
  - 1/2 inch foam: up to 2 inches
  - Drainmat 6000: up to 2 inches

### Rebar Requirements:

Key Contact:  
(name and phone number of onsite rebar Foreman)

- Concrete dobies, metal bar supports that are curved- supports cannot have sharp edges
- Review rebar loading procedures – protect the material from damage
- Chalk marking spray only (no solvent based spray paints)
- Review repair procedures as per AVM's installation manual

### Temperature Guidelines

\*If ambient temperatures are expected to be above 110°F or below 40°F during installation or prior to placement of concrete please refer to the Aussie Skin Product Manual.

### Shotcrete Application Requirements

- Daily Third-Party shotcrete reports to be sent to AVM at [aussieguard@avmindustries.com](mailto:aussieguard@avmindustries.com) within 48 hours of shotcrete placement
- For warranty eligibility, all shotcrete nozzlemen must be in current and in good standing meeting all ACI 506 requirements
- Shotcrete nozzlemen certifications to be sent to AVM during project startup and to be confirmed by Third-Party shotcrete reports.





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## Penetrations:

Post-applied penetrations (where and how many?)

- If the concrete or shotcrete is not a single continuous pour from the membrane all the way to the exposed interior surface of the concrete or shotcrete wall or floor, contact AVM's Technical Services Department for prior written approval. Failure to get prior written approval for any deviation from this requirement will void the warranty.

## Plumbing

- Spacing Concerns – minimum spacing of 6 inches
- Sleeved pipes must have a Mechanical Seal installed and fully grouted
- Vertical versus Horizontal
- Pipes must be suspended within concrete, NOT directly on waterproofing membrane
- All dewatering wells must be solid (no perforated pipes)

## Electrical

- Spacing concerns – minimum spacing of 6 inches, closer is allowed with specific limitations and required enhancements prior to job start in writing from AVM.
- No tight clusters (i.e. duct bank)
- No braided or twisted cables – all pipes must be solid (Cad welding accepted)

## Tie-Backs

- Will the tie-back be de-tensioned?
- Review Standard details
- Cement board to be placed where piles are to be removed
- Pile removal procedure (torching)
- Slab Anchors? Will they be de-tensioned?

## Cold Joints

- A single pour of structural concrete must be placed directly on the membrane in all locations.
- Any cold joints created by utilizing a protection slab, slurry walls or other conditions that create a cold-joint between the structural concrete and waterproofing membrane are not warrantable
- All vertical and horizontal cold joints between Walls and Mat slabs or series of placements between structural walls and slabs must use Aussie Swell Red or Aussie Injection Tube.

## Rebar Ties

- Minimum thickness and length requirements
  - All Rebar Ties must be proud from the wall a minimum 1/2 inch to allow room for proper sealing. (Sealant must cover min 1/2" of shaft!)
- Must be solid and have no give
- All rebar ties must be a minimum 2 inches away from rebar supports
- Must be sealed with Aussie Seal M

## Formwork/Carpenters

- How bulkheads are formed both vertical and horizontal
- No nailing of bulkheads through the membrane
- Protection of membrane from one pour to another
- The use of dead-men/formwork support for horizontal slab work
- Formwork Removal: In areas where formwork is to be removed (slab edges, footings, top of wall) for tie-in to post-applied waterproofing, the formwork shall remain in place for a minimum 72 hours after placement of concrete.

## Miscellaneous

- No stay form – all form work is to be removable

## Expansion Joints:

- Control Joints / Moving Joints?
- What joint system are we tying into?

## Waterstop Review:

- Aussie Seal M Adhesive Required
- Aussie Swell Exposure Limits Reviewed
- Review Standard Details
- Review areas of installation: joints, sleeves, penetrations shotcrete lift joints.





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## Above Grade Tie-in and Termination requirements:

What System is being used on the podium?

Are there any other tie-ins not noted below?

- Follow standard requirements
- If another manufacturer's system is tying into the Aussie Skin – Who verifies compatibility between the two systems?
- If another manufacturer's system is tying into the Aussie Skin – Who warrants the tie-in between the two systems?
- Termination at soft-scape or hard-scape

## Transition to Post-Applied:

Are there any areas that transition from blindside to post applied? If so, where?

- Review formwork removal
- Aussie Membranes 500/502/520/580-AL/582-AL/585-CW requires 7 days from placement of concrete prior to placement of any of these post applied systems.
- Ensure a tail of Aussie Skin is wrapped onto the forms prior to shooting concrete so that we have continuous waterproofing.
- Review back fill process and protection of waterproofing



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## Independent Inspection Requirements

- Independent Inspection Firm cannot be contracted by AVM Approved Applicator.
- Inspection firm must be given at least 24 hours upfront notice for required services
- Review entire substrate prior to product installation
- Review installed product prior to placement of Rebar
- All waterproofing products must be inspected and documented prior to covering
- Periodic inspections during concrete placement
- Daily third party shotcrete reports must be sent to AVM Industries as well
- Inspection Reports
  - Reports to be sent to AVM ([aussieguard@avmindustries.com](mailto:aussieguard@avmindustries.com)), GC, and Applicator within 24 hours of inspection.
  - Field reports must include a site map highlighting the area(s) reviewed.
  - Photos are mandatory (general areas, penetrations, transitions and areas of concern)
- Open Action Items
  - Approved Applicator and General Contractor must be notified of any open action items prior to leaving the jobsite.
  - All Open Action Items must be re-inspected and documented prior to covering
- For each phase/stage of concrete placement, the 3rd Party Inspector must provide a written report stating that a particular area is ready for the next stage of construction. If this is not provided with photo documentation then the area may not qualify for the Aussie Guard NDL Warranty. It is the General Contractor's responsibility to coordinate inspections and ensure that the proper approval is provided prior to the next stage of construction.



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## Attendance Check-In:

<b>AVM Representative:</b>		
NAME	COMPANY	SIGNATURE
<b>Approved Applicator (Certified):</b>		
NAME	COMPANY	SIGNATURE
<b>General Contractor:</b>		
NAME	COMPANY	SIGNATURE
<b>Concrete Contractor:</b>		
NAME	COMPANY	SIGNATURE
<b>Plumbing Contractor:</b>		
NAME	COMPANY	SIGNATURE
<b>Electrical Contractor:</b>		
NAME	COMPANY	SIGNATURE
<b>Architect:</b>		
NAME	COMPANY	SIGNATURE
<b>Owner's Representative:</b>		
NAME	COMPANY	SIGNATURE
<b>Approved Independent Inspector:</b>		
NAME	COMPANY	SIGNATURE
<b>Waterproofing Consultant:</b>		
NAME	COMPANY	SIGNATURE
<b>Carpenter:</b>		
NAME	COMPANY	SIGNATURE
<b>Rebar Contractor:</b>		
NAME	COMPANY	SIGNATURE
<b>Other:</b>		
NAME	COMPANY	SIGNATURE
<b>Other:</b>		
NAME	COMPANY	SIGNATURE