Diagrams to assist with

BELOW GROUND WATERPROOFING
Waterproofing Basics

Sources of below-ground moisture

SURFACE SOURCES
- RAIN
- LANDSCAPING IRRIGATION
- ROOF DOWNSPOUTS AND OVERFLOWS

DAMAGED MANMADE PONDS
- ORNAMENTAL
- SWIMMING POOLS

BROKEN UTILITIES
- WATER MAIN
- STORM OR SANITARY SEWER

NATURAL WATER LEVELS
- PERMANENT
- FLUCTUATING
- PERCHED

DAMAGED DRAIN TILE

CAPILLARY DRAW
Waterproofing Basics

Positive side vs. negative side waterproofing

**Positive Side Waterproofing** (Most Common)
- Backfilled Walls
- Blindside Walls
- Plaza Roofing
- Earth-Covered Roofs

**Negative Side Waterproofing**
- Interior Repair
1 - substrate

2 - sloping surface

3 - first membrane

4 - second membrane
Waterproofing Basics

Positive side waterproofing

BACKFILLED WATERPROOFING

BLINDSIDE WATERPROOFING
Foundation wall with drainage system
Foundation wall with slab below ground (1)
Foundation wall with slab below ground (2)
Pile cap waterproofing
Field grade beam waterproofing
N.B: All penetrations should be 300mm from walls, curbs, up stands, and be placed a minimum of 300mm apart.
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Pipe sleeve penetration detail

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Waterproofing termination at ground

- **Appropriate Sealant**
- **Compatible with Waterproofing Membrane**
- **Termination Bar Fastened with Appropriate Fasteners at Approx 120° O.C.**
- **Sheet Metal Counterflashing**
- **Appropriate for Masonary Construction Type**
- **Grade**
- **Backfill**
- **Waterproofing Membrane**
- **Protection / Drainage / Insulation Course**

Install appropriate sealant and tool to facilitate run off.
Foundation wall – exterior cladding tie-in

WHEN USED, EXTEND WALL MOISTURE BARRIER OVER TOP OF WATERPROOFING MEMBRANE

WALL CLADDING TO COVER WATERPROOFING MEMBRANE

APPROPRIATE SEALANT COMPATIBLE WITH WATERPROOFING MEMBRANE

TERMINATION BAR FASTENED WITH APPROPRIATE FASTENERS AT APPROXIMATELY 12" O.C.

WATERPROOFING MEMBRANE MUST BE PROTECTED FROM ULTRAVIOLET RAYS

GRADE

BACKFILL

WATERPROOFING MEMBRANE

PROTECTION / DRAINAGE / INSULATION COURSE

WATERPROOFING TERMINATION 10cm MIN ABOVE GRADE

METAL OR ULTRAVIOLET RESISTANT MATERIAL
Blind side waterproofing at ground beam
Blind side waterproofing at slab
Perimeter edge detail at ground compatible materials
Perimeter edge detail at ground – dissimilar materials