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Retaining Wall Waterproofing (Test Document)

Objective: This test aims to verify the effectiveness of the waterproofing system installed on a retaining wall, ensuring that it provides a reliable barrier against water infiltration and protects the structure from potential water damage.

Materials and Tools:

- Water Source (Hose or Water Tank)
- Spray Nozzle or Spray Wand
- Water Level Indicator (Optional)
- Stopwatch or Timer
- Safety Equipment (e.g., Gloves, Safety Glasses)

Test Steps:

1. **Preparation:**
 - Ensure the retaining wall is structurally complete, and all waterproofing materials, such as membranes and sealants, have been installed as per the manufacturer's guidelines.
2. **Water Source Setup:**
 - Connect the water source (hose or water tank) to a spray nozzle or spray wand.
3. **Test Sections:**
 - Divide the retaining wall into manageable test sections for efficient testing.
 - For larger walls, consider testing different elevations or portions separately.
4. **Initial Inspection:**
 - Conduct a visual inspection of the retaining wall and waterproofing system for any visible defects or damage.
5. **Waterproofing Integrity:**
 - Using the spray nozzle or wand, apply a steady and controlled stream of water to the surface of the retaining wall.
 - Focus on the waterproofed areas and any joints, seams, or transitions in the membrane.
6. **Observation:**
 - Observe the waterproofing system for any signs of water penetration or leakage.
 - Pay attention to areas around penetrations (such as drainage outlets or pipe protrusions) and corners where leaks may occur.
7. **Testing Duration:**
 - Continue the water spray on each test section for a minimum of 30 minutes to simulate typical rainfall conditions.
8. **Water Level Indicator (Optional):**
 - If available, use a water level indicator to measure the water level on both sides of the retaining wall.
 - Compare the water level difference to assess water penetration.
9. **Observation Period:**
 - After the testing duration, allow an additional observation period of at least 10 minutes to identify delayed leaks or water seepage.
10. **Documentation:**
 - Document all test observations, including the location of any detected leaks or water ingress.
 - Take photographs or videos to supplement the test report.

Test Report:

Test Section	Date	Test Duration (mins)	Water Level Difference (if applicable)	Observations
Section 1				
Section 2				
Section 3				
Section 4				
Section 5				
Section 6				
Section 7				
Section 8				

Note: The retaining wall waterproofing test helps identify potential weaknesses in the waterproofing system, allowing for timely corrective actions before the wall is exposed to weather conditions and potential water-related issues. It is essential to perform this test as part of the quality assurance process to ensure the long-term durability and performance of the retaining wall.

