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Concrete Rooftop Waterproofing (Inspection and Test Procedure)

Objective: This procedure aims to ensure the proper installation and effectiveness of concrete rooftop waterproofing, verifying its integrity and ability to protect the structure from water infiltration and damage.

Materials and Tools:

- Waterproofing Membrane (e.g., Liquid or Sheet Membrane)
- Primer
- Reinforcing Fabric (if applicable)
- Caulking Material
- Seam Tape
- Waterproofing Roller or Brush
- Water Spray Bottle
- Water Source for Flood Testing

Inspection and Test Points:

1. **Surface Preparation:**
 - Check the concrete rooftop for cleanliness, evenness, and proper slope for water drainage.
 - Ensure the surface is free from debris, dust, and any loose materials.
2. **Membrane Selection and Compatibility:**
 - Verify that the selected waterproofing membrane is suitable for concrete rooftop application.
 - Check the compatibility of the membrane with the concrete substrate.
3. **Primer Application:**
 - Apply the appropriate primer to the concrete rooftop as per manufacturer's guidelines.
 - Ensure uniform coverage and allow sufficient drying time.
4. **Membrane Installation:**
 - Install the waterproofing membrane according to the manufacturer's instructions.
 - Ensure proper adhesion and no gaps or wrinkles in the membrane.
5. **Seam and Joint Sealing:**
 - Apply caulking material to seal any seams, joints, or penetrations in the membrane.
 - Use seam tape for added reinforcement if necessary.
6. **Reinforcement (if applicable):**
 - Apply reinforcing fabric over critical areas, such as roof-to-wall connections.
 - Ensure the fabric is embedded properly in the waterproofing membrane.
7. **Visual Inspection:**
 - Inspect the installed membrane for any visible defects, damage, or uneven application.
8. **Water Spray Test:**
 - Spray the rooftop surface with water to simulate rain and observe the membrane's performance.
 - Check for any water leakage or signs of inadequate waterproofing.
9. **Flood Test (if required):**
 - Conduct a flood test by flooding the rooftop with water to a specified depth for a defined period.
 - Observe for any water penetration or failures in the waterproofing system.
10. **Curing and Drying Time:**
 - Allow the waterproofing membrane to cure and dry completely before proceeding with additional work.
11. **Quality Assurance Check:**
 - Perform a final quality assurance check to ensure all aspects of the waterproofing are in compliance with standards and specifications.

Inspection and Test Report:

Inspection Point	Checked By	Date	Approved By	Date
Surface Preparation				
Membrane Selection and Compatibility				
Primer Application				
Membrane Installation				
Seam and Joint Sealing				
Reinforcement (if applicable)				
Visual Inspection				
Water Spray Test				
Flood Test (if required)				
Curing and Drying Time				
Quality Assurance Check				

Note: Regular inspection and testing during the concrete rooftop waterproofing process ensure the effectiveness and longevity of the waterproofing system. Properly installed and tested waterproofing helps protect the structure and contents below from water damage and enhances the overall building's performance and durability.