



## Engineering Hub

# Site QA/QC checklists

12

## Flood test

Watertightness test of roofs, wet areas and planters before the protection layers: set-up, depth and duration, result.

### Systems

Bituminous membranes

Liquid PU

Cementitious

Inverted roof

Protection &amp; drainage

### Inspection record

| Project | Location / area | Inspector | Date | Signature |
|---------|-----------------|-----------|------|-----------|
|---------|-----------------|-----------|------|-----------|

#### 12.1 Before: surface acceptance

| Check                                                                                                                                  | Method or record             | Acceptance                                        | Remarks |
|----------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------|---------|
| <input type="checkbox"/> Waterproofing complete, cured and its details inspected — before the protection layers<br><b>◆ Hold point</b> | Signed stage acceptance      | Stage accepted in writing before flooding         |         |
| <input type="checkbox"/> The designer confirms the slab can carry the weight of the test water                                         | Written confirmation on file | Test depth within the confirmed load              |         |
| <input type="checkbox"/> Drains plugged securely without damaging the membrane                                                         | Visual check of each plug    | Plugs tight; the membrane at the outlet undamaged |         |
| <input type="checkbox"/> Temporary dams to divide large areas                                                                          | Visual check                 | Dams hold water without damaging the membrane     |         |
| <input type="checkbox"/> Access to the soffit below for inspection                                                                     | Access and lighting arranged | The whole soffit can be inspected                 |         |

#### 12.2 During application

| Check | Method or record | Acceptance | Remarks |
|-------|------------------|------------|---------|
|-------|------------------|------------|---------|

|                          |                                                                                                |                                       |                                          |  |
|--------------------------|------------------------------------------------------------------------------------------------|---------------------------------------|------------------------------------------|--|
| <input type="checkbox"/> | <b>Flooded to the depth and for the period set in the specification</b><br><b>◆ Hold point</b> | ASTM D5957 is the usual guide         | Depth and duration as specified          |  |
| <input type="checkbox"/> | <b>Water level recorded at the start and the end, allowing for evaporation</b>                 | Level marks and timed readings logged | No drop beyond what evaporation explains |  |
| <input type="checkbox"/> | <b>Soffit below checked at intervals</b>                                                       | Inspection log with times and photos  | No drips, damp patches or stains         |  |

### 12.3 After: testing and handover

| Check                                                                                                                        | Method or record            | Acceptance                                                   | Remarks |
|------------------------------------------------------------------------------------------------------------------------------|-----------------------------|--------------------------------------------------------------|---------|
| <input type="checkbox"/> <b>No leaks or damp on the soffit — otherwise locate, repair and re-test</b><br><b>◆ Hold point</b> | Signed result               | Pass signed by the inspector and the client's representative |         |
| <input type="checkbox"/> <b>Water drained and drains reopened without damaging the membrane</b>                              | Visual check of the outlets | Drains open and running; membrane undamaged                  |         |
| <input type="checkbox"/> <b>Protection layer straight after a passed test</b><br><b>◆ Hold point</b>                         | Photographed before cover   | Protection in place before any other trade crosses the area  |         |
| <input type="checkbox"/> <b>Test report: area, depth, duration, result, photos and signatures</b>                            | The project quality file    | Report signed and filed                                      |         |



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