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# Masonry Inspection Checklist

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*Prepared by the  
TMS Construction Practices Committee*



Boulder, CO



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## PREFACE

The Construction Practices Committee of The Masonry Society has prepared this checklist for use during construction. The checklist can be used in whole or in part to suit the needs of a masonry project. The completed document may become part of the job records for that contract. The checklist is meant to serve as a guide for the masonry inspector/observer's work throughout the project.

The Masonry Society (TMS) will appreciate receiving suggestions for improving the checklist. Comments may be submitted by mail to TMS, 3970 Broadway, Suite 201-D, Boulder, CO 80304-1135, by fax at 303-541-9215, or by e-mail at info@masonrysociety.org.

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# Masonry Inspection Checklist

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## ***INTRODUCTION***

This document serves as a tool for masonry construction inspectors, mason contractors, general contractors, architects and engineers to assist them in assuring compliance with the contract documents. Only those items that relate to masonry construction are included. Items that should be checked are listed without explanation. Not all items will be used on every project, and some projects may use items not listed.

The checklist is divided into five parts:

- I. Preconstruction
- II. Preparation for Field Work
- III. Quality Assurance
- IV. Construction
- V. Closeout

This document is not an inspector's guide to masonry construction, nor is it a training manual. Rather, it can serve as a basis for the inspector/observer's daily log. It is to be used as a tool to aid masonry inspectors/observers in the performance of their duties.





| INSPECTION ITEM   | REVIEWED                 |                          | QUALITY ASSURANCE ITEM   | COMMENTS |
|---|--------------------------|--------------------------|--------------------------|----------|
|   | YES                      | NO                       |                          |          |
| <b><i>I. PRECONSTRUCTION</i></b>                                |                          |                          |                          |          |
| <b>A. Review Contract Documents</b>                             |                          |                          |                          |          |
| 1. General Conditions and Construction Contract                 |                          |                          |                          |          |
| a. Inspector's scope of responsibility                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |
| b. Approved alternatives and revisions                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |
| c. Addenda  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |
| d. Change orders  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |
| 2. Specifications   |                          |                          |                          |          |
| a. Name and date of applicable building code and its supplement | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |
| b. References to standards                                      | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |
| c. Specified compressive strength, $f'_m$                       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |
| d. Submittals requirements, log                                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |
| e. Testing requirements   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |
| f. Protection of stored materials                               | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |
| g. Special weather conditions                                   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |

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| INSPECTION ITEM   | REVIEWED                 |                          | QUALITY ASSURANCE ITEM   | COMMENTS |
|---|--------------------------|--------------------------|--------------------------|----------|
|   | YES                      | NO                       |                          |          |
| h. Mortar type, mix design                                    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |
| i. Admixtures   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |
| j. Pigments   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |
| k. Grout type, mix design                                     | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |
| l. Metal corrosion protection                                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |
| m. Masonry units: size, color, texture, grade, type, strength | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |
| n. Special shapes   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |
| o. Types of accessories                                       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |
| p. Dampproofing and moisture barriers                         | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |
| q. Flashing system and weeps                                  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |
| r. Coatings   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |
| s. Mortar mixing and application procedures                   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |
| t. Grout placement procedures                                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |
| u. Bond pattern   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |
| v. Mortar joint types, size, alignment of head joints         | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |
| w. Filled head and bed joints                                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |
| x. Tooling of mortar joints                                   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |
| y. Wall bracing   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |
| z. Construction tolerances                                    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |
| aa. Protection of completed work                              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |
| bb. Cleaning procedures                                       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |

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| INSPECTION ITEM   | REVIEWED                 |                          | QUALITY ASSURANCE ITEM   | COMMENTS |
|---|--------------------------|--------------------------|--------------------------|----------|
|   | YES                      | NO                       |                          |          |
| 3. Drawings / Design  |                          |                          |                          |          |
| a. Name, date, and applicable building code                                   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |
| b. Compressive strength of masonry, $f'_m$                                    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |
| c. Details  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |
| d. Location of expansion and control joints                                   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |
| e. Compressible fillers, adjustable anchors, and other movement control items | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |
| f. Flashing details and locations   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |
| g. Splices, end dams, and laps  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |
| h. Weepholes and vents  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |
| i. Details and locations of reinforcement                                     | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |
| j. Anchors and wall ties: type, size, and location                            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |
| k. Lintels and shelf angles   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |
| l. Insulation size and type   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |
| m. Air barriers   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |
| n. Air space details / drainage accessories                                   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |
| o. Sealants: location and type  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |
| p. Sealant primers  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |
| q. Foundation and at-grade details  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |

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| INSPECTION ITEM                     | REVIEWED                 |                          | QUALITY ASSURANCE ITEM   | COMMENTS |
|-------------------------------------|--------------------------|--------------------------|--------------------------|----------|
|                                     | YES                      | NO                       |                          |          |
| 4. Submittals                       |                          |                          |                          |          |
| a. Review approved submittals       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |
| 5. Meetings                         |                          |                          |                          |          |
| a. Meetings required                | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |
| b. Attendance                       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |
| c. Agenda                           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |
| 6. Schedules                        |                          |                          |                          |          |
| a. Construction start date          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |
| b. Daily work hours                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |
| c. Overtime hours                   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |
| d. Inspections                      | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |
| e. Testing                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |
| f. Weather delay procedures         | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |
| g. Completion date                  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |
| h. Punch-lists                      | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |
| i. Substantial completion procedure | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |
| j. Warranties                       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |

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| INSPECTION ITEM                       | REVIEWED                 |                          | QUALITY ASSURANCE ITEM   | COMMENTS |
|---------------------------------------|--------------------------|--------------------------|--------------------------|----------|
|                                       | YES                      | NO                       |                          |          |
| <b>B. Mock-up Requirements</b>        |                          |                          |                          |          |
| 1. Materials                          |                          |                          |                          |          |
| a. Specification compliance           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |
| b. Submittals                         | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |
| 2. Construction                       |                          |                          |                          |          |
| a. Mortar joint size, alignment       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |
| b. Movement joints                    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |
| c. Tooling                            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |
| d. Penetration details                | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |
| e. Flashings, weeps and vents         | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |
| f. Cavity details, insulation         | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |
| g. Backup details                     | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |
| h. Anchors, ties and fasteners        | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |
| i. Reinforcement                      | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |
| j. Dampproofing and moisture barriers | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |
| k. Air barriers                       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |
| k. Grouting                           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |

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| INSPECTION ITEM   | OBSERVED/<br>REVIEWED    |                          | QUALITY<br>ASSURANCE<br>ITEM | COMMENTS |
|---|--------------------------|--------------------------|------------------------------|----------|
|   | YES                      | NO                       |                              |          |
| <b>II. PREPARATION FOR FIELD WORK</b>   |                          |                          |                              |          |
| <b>A. Storage of Materials</b>  |                          |                          |                              |          |
| 1. Covers and protection from weather damage  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     | _____    |
| 2. Set on pallets or dunnage to prevent contact with the ground or other substrate. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     | _____    |
| 3. Isolated from other materials to prevent contamination                           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     | _____    |
| <b>B. Substrates</b>  |                          |                          |                              |          |
| 1. Clean and within moisture limits   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     | _____    |
| 2. Structural frames within tolerances  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     | _____    |
| 3. Footing and ledge dimensions within tolerances                                   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     | _____    |
| 4. Grade and wall elevations within tolerances                                      | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     | _____    |
| 5. Penetrations   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     | _____    |
| 6. Reinforcement, dowels, anchors   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     | _____    |
| <b>C. Submittal Compliance</b>  |                          |                          |                              |          |
| 1. Certificates of Compliance compared to materials                                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     | _____    |
| 2. Notifications of non-conformance   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     | _____    |
| 3. Removal of rejected materials from site  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     | _____    |

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| INSPECTION ITEM   | OBSERVED/<br>REVIEWED    |                          | QUALITY<br>ASSURANCE<br>ITEM | COMMENTS |
|---|--------------------------|--------------------------|------------------------------|----------|
|   | YES                      | NO                       |                              |          |
| <b>D. Preconstruction Conference</b>  |                          |                          |                              |          |
| 1. Conference with representatives of Architect/Engineer, Masonry Contractor, Masonry Inspector, Masonry Suppliers, Testing Agency as needed. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| 2. Review specifications, drawings and inspection program; resolve ambiguities; confirm scheduling.   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| 3. Review mock-up and/or sample panel.  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| 4. Review submittals, discrepancies, substitutions  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| 5. Review testing requirements, laboratory/field  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| <b>E. Sample Panel / Mock-up</b>  |                          |                          |                              |          |
| 1. Displays typical workmanship and materials including masonry units and mortar joints   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| 2. Meeting  |                          |                          |                              |          |
| a. Compliance/non-compliance  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| b. Testing results  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| c. Quality assurance procedures   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| d. Observations   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| e. Evaluations  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| f. Recommendations  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| g. Approval   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| 3. Water leakage testing  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| 4. Determine brick IRA  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |

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| INSPECTION ITEM  | OBSERVED/<br>REVIEWED    |                          | QUALITY<br>ASSURANCE<br>ITEM | COMMENTS |
|--|--------------------------|--------------------------|------------------------------|----------|
|  | YES                      | NO                       |                              |          |
| <b>III. QUALITY ASSURANCE</b>  |                          |                          |                              |          |
| <b>A. Specification Requirements May Include</b>                                 |                          |                          |                              |          |
| 1. Certificates for delivered materials indicating compliance with specification | <input type="checkbox"/> | <input type="checkbox"/> |                              |          |
| 2. Verify materials and source match certificate                                 | <input type="checkbox"/> | <input type="checkbox"/> |                              |          |
| 3. Verify $f'_m$ prior to construction   | <input type="checkbox"/> | <input type="checkbox"/> |                              |          |
| 4. Verify mortar proportions   | <input type="checkbox"/> | <input type="checkbox"/> |                              |          |
| 5. Observe brick placement and mortar joint construction                         | <input type="checkbox"/> | <input type="checkbox"/> |                              |          |
| 6. Verify location of reinforcement, connectors                                  | <input type="checkbox"/> | <input type="checkbox"/> |                              |          |
| 7. In prestress work   |                          |                          |                              |          |
| a. Verify tendon size, location, anchorage                                       | <input type="checkbox"/> | <input type="checkbox"/> |                              |          |
| b. Verify grout proportions for anchorages and bonded tendons                    | <input type="checkbox"/> | <input type="checkbox"/> |                              |          |
| 8. Verify grout space, reinforcement, mix proportions                            | <input type="checkbox"/> | <input type="checkbox"/> |                              |          |
| 9. Observe prism, mortar, and grout test specimens                               | <input type="checkbox"/> | <input type="checkbox"/> |                              |          |
| 10. Verify $f'_m$ during construction  | <input type="checkbox"/> | <input type="checkbox"/> |                              |          |
| <b>B. Nonconformance Resolution</b>  |                          |                          |                              |          |
| 1. Review specified reporting procedures   | <input type="checkbox"/> | <input type="checkbox"/> |                              |          |
| 2. Document noncompliance areas  | <input type="checkbox"/> | <input type="checkbox"/> |                              |          |
| 3. Review rework, repair and documentation                                       | <input type="checkbox"/> | <input type="checkbox"/> |                              |          |

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| INSPECTION ITEM                    | OBSERVED/<br>REVIEWED    |                          | QUALITY<br>ASSURANCE<br>ITEM | COMMENTS |
|------------------------------------|--------------------------|--------------------------|------------------------------|----------|
|                                    | YES                      | NO                       |                              |          |
| <b>IV. CONSTRUCTION</b>            |                          |                          |                              |          |
| <b>A. Change Orders</b>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| <b>B. Workmanship</b>              |                          |                          |                              |          |
| 1. Specified masonry materials     |                          |                          |                              |          |
| a. Units                           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| b. Mortar                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| c. Grout                           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| 2. Preparation                     |                          |                          |                              |          |
| a. Mortar batching                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| b. Preparation of units            |                          |                          |                              |          |
| 1) Wetting                         | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| 2) Cutting                         | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| 3. Placement of units              |                          |                          |                              |          |
| a. Mortar                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| b. Masonry unit                    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| c. Head joint                      | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| d. Tooling                         | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| 4. Tolerances                      | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| 5. Built-in Items                  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| 6. Hot and Cold weather provisions | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |

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| INSPECTION ITEM                        | OBSERVED/<br>REVIEWED    |                          | QUALITY<br>ASSURANCE<br>ITEM | COMMENTS |
|--|--------------------------|--------------------------|------------------------------|----------|
|  | YES                      | NO                       |                              |          |
| 7. Wall protection                     |                          |                          |                              |          |
| a. Stability/bracing                   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| b. Covering of walls                   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| c. Protection of completed work        | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| <b>C. Flashing</b>                     |                          |                          |                              |          |
| 1. Material                            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| 2. Placement                           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| <b>D. Weeps</b>                        |                          |                          |                              |          |
| 1. Material                            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| 2. Placement                           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| <b>E. Reinforcement and Connectors</b> |                          |                          |                              |          |
| 1. Reinforcing steel                   |                          |                          |                              |          |
| a. Size, grade                         | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| b. Bends                               | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| c. Laps/ joints                        | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| d. Placement                           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |

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| INSPECTION ITEM                    | OBSERVED/<br>REVIEWED    |                          | QUALITY<br>ASSURANCE<br>ITEM | COMMENTS |
|------------------------------------|--------------------------|--------------------------|------------------------------|----------|
|                                    | YES                      | NO                       |                              |          |
| 2. Joint reinforcement             |                          |                          |                              |          |
| a. Size                            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| b. Type                            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| b. Placement                       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| c. Splices                         | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| 3. Anchors                         |                          |                          |                              |          |
| a. Size                            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| b. Type                            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| b. Placement                       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| 4. Ties                            |                          |                          |                              |          |
| a. Size                            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| b. Type                            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| c. Placement                       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| 5. Fasteners                       |                          |                          |                              |          |
| a. Size                            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| b. Type                            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| b. Placement                       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| <b>F. Grout Placement</b>          |                          |                          |                              |          |
| 1. Verify minimum grout dimensions | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| 2. Check slump                     | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| 3. Verify consolidation            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| 4. Verify reconsolidation          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |

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| INSPECTION ITEM                                    | OBSERVED/<br>REVIEWED    |                          | QUALITY<br>ASSURANCE<br>ITEM | COMMENTS |
|--|--------------------------|--------------------------|------------------------------|----------|
|  | YES                      | NO                       |                              |          |
| <b>G. Insulation</b>                               |                          |                          |                              |          |
| 1. Cavity Insulation                               |                          |                          |                              |          |
| a. Type  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| b. Dimension                                       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| c. Orientation                                     | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| d. Fastening/attachment/spacing                    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| e. Joint treatment                                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| 2. Unit Cell Insulation                            |                          |                          |                              |          |
| a. Verify placement                                | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| b. Cut masonry unit installation                   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| 3. Expanding Foam                                  |                          |                          |                              |          |
| a. Observation holes                               | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| <b>H. Field Tests</b>                              |                          |                          |                              |          |
| 1. Mortar/Grout                                    |                          |                          |                              |          |
| a. Frequency requirements met                      | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| b. Observe specimen preparation, sampling, storage | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| 2. Composite prisms                                |                          |                          |                              |          |
| a. Frequency requirements met                      | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| b. Observe specimen preparation, sampling, storage | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |

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| INSPECTION ITEM  | OBSERVED/<br>REVIEWED    |                          | QUALITY<br>ASSURANCE<br>ITEM | COMMENTS |
|--|--------------------------|--------------------------|------------------------------|----------|
|  | YES                      | NO                       |                              |          |
| <b>I. Movement Joints – Control &amp; Expansion Joints</b> |                          |                          |                              |          |
| 1. Material  |                          |                          |                              |          |
| a. Preformed size and type                                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| b. Backer rod  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| c. Sealant   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| d. Bond breaker  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| 2. Location and Placement                                  |                          |                          |                              |          |
| a. Verify locations horizontal and vertical                | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| b. Verify clear, open joint                                | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| c. Sealant preparation and installation                    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |

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| INSPECTION ITEM   | OBSERVED/<br>REVIEWED    |                          | QUALITY<br>ASSURANCE<br>ITEM | COMMENTS |
|---|--------------------------|--------------------------|------------------------------|----------|
|   | YES                      | NO                       |                              |          |
| <b>J. Cleaning</b>  |                          |                          |                              |          |
| 1. Dry cleaning mortar residue and droppings  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     | _____    |
| 2. Wet cleaning after minimum curing time   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     | _____    |
| 3. Compatibility of specified cleaning materials with   |                          |                          |                              | _____    |
| a. Units and mortar   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     | _____    |
| b. Sealants   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     | _____    |
| c. Windows, doors, louvers  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     | _____    |
| d. Flashings and roofing  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     | _____    |
| 4. Procedure  |                          |                          |                              | _____    |
| a. Test area / mock-up of cleaning method for each material; units, stone, precast and adjoining construction. Suggest sample panel/mock-up | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     | _____    |
| b. Protective measures  |                          |                          |                              | _____    |
| 1) Personal Protective Equipment  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     | _____    |
| 2) Protection of adjoining materials  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     | _____    |
| c. Manufacturer's recommendations for product application   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     | _____    |
| d. Temperature range  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     | _____    |

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| INSPECTION ITEM  | OBSERVED/<br>REVIEWED    |                          | QUALITY<br>ASSURANCE<br>ITEM | COMMENTS |
|--|--------------------------|--------------------------|------------------------------|----------|
|  | YES                      | NO                       |                              |          |
| <b>V. CLOSEOUT</b>   |                          |                          |                              |          |
| <b>A. Operations and Maintenance Manual Requirements</b>   |                          |                          |                              |          |
| 1. Provide manuals to the General Contractor and the Owner | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| 2. List materials; model number, suppliers, name, address  |                          |                          |                              |          |
| a. Units   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| b. Mortar - mix  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| c. Reinforcement   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| d. Ties, anchors, and fasteners                            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| e. Grout – mix   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| f. Sealants and backer rod                                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| g. Water repellent   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| h. Vapor barrier   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| i. Weeps   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| j. Flashings   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |
| k. Lintels, sills, and shelf angles                        | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     |          |

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| INSPECTION ITEM                          | OBSERVED/<br>REVIEWED    |                          | QUALITY<br>ASSURANCE<br>ITEM | COMMENTS |
|--|--------------------------|--------------------------|------------------------------|----------|
|  | YES                      | NO                       |                              |          |
| 3. As built drawings                     | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     | _____    |
| 4. Warranties                            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     | _____    |
| 5. Testing data                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     | _____    |
| a. Laboratory - units, mortar, and grout | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     | _____    |
| b. Field testing                         | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     | _____    |
| B Maintenance recommendations            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>     | _____    |

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The Masonry Society is a gathering of people interested in the art and science of masonry. It is a professional, technical, and educational association dedicated to the advancement of knowledge on masonry. TMS members are design engineers, architects, builders, researchers, building officials, material suppliers, manufacturers, and others who want to contribute to and benefit from the pool of information on masonry. TMS gathers and disseminates technical information through its committees, publications, codes and standards, slide sets, videotapes, computer software, newsletter, referred journal, educational programs, professors' workshop, scholarships, certification programs, disaster investigation team, conferences, and Annual Meeting.

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