

Masonry Inspection Checklist

Section 4.2

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This checklist is designed to help ensure masonry projects are built to the high standards expected of masonry by providing assistance in the field review process.

This list is for use by those involved in the inspection of masonry as well as to provide the mason with a checklist of items to review for his own quality assurance program. This list aims to help ensure conformance to the masonry standards, to the specifications and to good workmanship standards.

Not all items will be applicable to a given project. The "Details" column can be used to record specific project requirements for an item. The "Comments" column may require expansion for multiple inspections.

Masonry Inspection Checklist

MATERIALS – ITEM	DETAILS	COMMENTS
1. CLAY MASONRY UNITS: a. Type, Size, Shapes, Tolerances		
b. Specified Colour & Texture		
c. Site Storage		
2. CMU'S: a. Strength, Sizes, Profiles, Shapes, Tolerances		
b. Fire Rating		
c. Specified Colour & Texture		
d. Site Storage		
3. PRECAST & STONE - Specified Type		
4. MORTAR & GROUT-Site Mixed:		
a. Specified Type, Colour		
b. Sand & Gravel to CSA A179 ??		
c. Water Potable, Site Storage		
5. MORTAR – Premixed: a. Specified Mortar Type		
b. Batch Time for Wet Mix, Lot Number for Dry Mix ??		
c. Site Storage		
6. GROUT-Premixed: a. Strength & Slump for Ready-mix		
b. Specified Type & Lot Number for Dry Mix ??		
7. CONNECTORS – Specified Types, Corrosion Resistance		
8. REINFORCING: a. Rebar Grade & Size		
b. Joint Reinforcing Type, Width, Corrosion Resistance		
9. FLASHING & / WEEP HOLE DEVICES: a. Specified Type		
b. Fastening, Priming & Sealing Material		
10. STEEL LINTELS - Specified Size, Corrosion Resistance		
11. Movement EXP., CONTR. & FIRE JOINT MATERIALS Spec.		
12. WATER REPELLANT (If in masonry work) Spec. Type		
13. AIR BARRIER (If in masonry work) Specified Type		
14. CORE & CAVITY INSULATION (If in masonry work)		
Specified Type, Specified Size, Specified Attachment		
15. CLEANER - Specified Type		

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WORKMANSHIP - ITEM	DETAILS	COMMENTS
1. FLASHING: a. Location & Dimension		
b. Laps Sealed, Secured to Back-up, End Dams		
2. MORTAR MIXING: a. Spec. Material/Proportion		
b. Mixing Time		
3. MORTAR APPLICATION: a. Joints Correctly Filled		
b. Cavities & Grouted Cells Reasonably Clear		
c. Spec. Joint Profile, Joints Properly Tooled, Re-tempering		
4. LAYING UNITS: a. Alignments & Joint Tolerances		
b. Minor Unit Defects Within Material Standard Limits		
c. Corbelling Within Limits		
d. Features as per Design: Arches, Sills, Soldiers, Prefab, etc.		
e. Fire Rated Units Where Specified		
5. VENEER TIES: a. Embedment in Mortar Within Limits ± 13		
b. Specified Spacing & Location		
c. Specified Fastening		
6. ANCHORS - Specified Location & Installation		
7. STEEL LINTELS & SHELF ANGLES: a. Spec. Location/Size		
b. Overhang $\leq 1/3$ Width, Expansion Gap Under Shelf Angle		
8. WEEPHOLES & VENTS		
- Specified Type, Locations, Spacing and unobstructed		
9. AIR BARRIERS (If in masonry work)		
- Specified Application, Sealing at Ties and Penetrations		
10. INSULATION (If in masonry work)		
a. Specified Location, Core Insulation to Top		
b. Cavity Insulation Fastened, Oriented & Joined as Specified		
11. REINFORCING: a. Sizes, Spacing & Locations		
b. Position in Cell, Bar Laps		
c. Stirrup & Tie Bars		
d. Joint Reinforcing Size, Spacing & Laps		
12. GROUTING: a. Cells Clear		
b. Cleanouts (if required) - Spacing & Size, Cleaned, Closed		
c. Parapets Solid Grouted		
d. Pour & Lift Height		

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13. WEATHER PROTECTION: a. Top of Wall Covered		
b. Cold Weather/Hot Weather Requirements		
14. MOVEMENT JOINTS		
a. Locations of Movement Joints / Type		
b. Vertical & Shelf Angle Expansion Joints Clear of Mortar		
c. Caulking Colour (by others)		
15. FIRESTOPPING - Location, Installation (if in masonry work)		
16. DRY CLEANING OF BLOCK		
- Mortar Smears & Droppings Removed		
17. WET CLEANING (If required or specified)		
a. Wall Adequately Cured		
b. Test Area Check		
c. Surroundings Protected		
d. Cleaning to Manufacturer's Requirements		
e. Adequate Pre-Soak, Rinse		
18. WATER REPELLENT (if in masonry work)		
a. Wall Adequately Clean & Dry		
b. Caulking & Flashing Complete, Surroundings Protected		
c. Application to Manufacturer's Requirements		