

Masonry Inspection Checklist

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 and Texture		
c. Site Storage		
2. CMU'S:		
a. Strength, Sizes, Profiles, Shapes, Tolerances		
b. Fire Rating		
c. Specified Colour and Texture		
d. Site Storage		
3. PRECAST and STONE:		
a. Specified Type		
4. MORTAR and GROUT – Site Mixed:		
a. Specified Type, Colour		
b. Sand and 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 and Slump for Ready-Mix		
b. Specified Type and lot Number for Dry Mix ??		
7. CONNECTORS:		
a. Specified Types, Corrosion Resistance		
8. REINFORCING:		
a. Rebar Grade and Size		
b. Joint Reinforcing Type, Width, Corrosion Resistance		
9. FLASHING and WEEP HOLE DEVICES:		
a. Specified Type		

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b. Fastening, Priming and Sealing Material		
10. STEEL LINTELS		
a. Specified Size, Corrosion Resistance		
11. MOVEMENT and FIRE JOINT MATERIALS		
a. Specified Type		
12. WATER REPELLENT (if in masonry work)		
a. Specified Type		
13. AIR BARRIER (if in masonry work)		
a. Specified Type		
14. CORE & CAVITY INSULATION (if in masonry work)		
a. Specified Type, Specified Size, Specified Attachment		
15. CLEANER		
a. Specified Type		

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WORKMANSHIP – ITEM	DETAILS	COMMENTS
1. FLASHING:		
a. Location and Dimension		
b. Laps Sealed, Secured to Backup, End Dams		
2. MORTAR MIXING:		
a. Specified Material/Proportion		
b. Mixing Time		
3. MORTAR APPLICATION:		
a. Joints Correctly Filled		
b. Cavities and Grouted Cells Reasonably Clear		
c. Specified Joint Profile, Joints Properly Tooled, Re-tempering		
4. LAYING UNITS:		
a. Alignments and 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 \pm 13mm		
b. Specified Spacing and Location		
c. Specified Fastening		
6. ANCHORS:		
a. Specified Location and Installation		
7. STEEL LINTELS and SHELF ANGLES:		
a. Specified Location/Size		
b. Overhang \leq 1/3 Width, Expansion Gap Under Shelf Angle		
8. WEEP HOLES and VENTS:		
a. Specified Type, Locations, Spacing and Unobstructed		
9. AIR BARRIERS (if in masonry work):		

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a. 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 and Joined as Specified		
11. REINFORCING:		
a. Sizes, Spacing and Locations		
b. Position in Cell, Bar Laps		
c. Stirrup and Tie Bars		
d. Joint Reinforcing Size, Spacing and Laps		
12. GROUTING:		
a. Cells Clear		
b. Cleanouts (if required) – Spacing and Size, Cleaned, Closed		
c. Parapets Solid Grouted		
d. Pour and Lift Height		
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 and Shelf Angle Expansion Joints Clear of Mortar		
c. Caulking Colour (by others)		
15. FIRESTOPPING (if in masonry work):		
a. Location, Installation		
16. DRY CLEANING OF BLOCK:		
a. Mortar Smears and Droppings Removed		
17. WET CLEANING (if in masonry work)		
a. Wall Adequately Cured		
b. Test Area Check		
c. Surroundings Protected		
d. Cleaning to Manufacturer's Requirements		
e. Adequate Pre-Soak, Rinse		

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18. WATER REPELLENT (if in masonry work)		
a. Wall Adequately Clean and Dry		
b. Caulking and Flashing Complete, Surroundings Protected		
c. Application to manufacturer's Requirements		