



Required Inspections Checklist

(OBC 108.2 - 2011 Ohio Building Code)

Application/Permit Number: _____

Project Address: _____

Project Name: _____

A list of inspections shall be provided at the time of plan approval is issued per OBC 108.2. The list indicates which inspections are required for the project. Inspections are performed in part or in whole. (This checklist also includes any City of Solon required inspections, which may be different than those required by plan approval.)(The plan reviewer will check the main category required at time of review.)

Required Inspection for this approval	Inspection Item Description	Inspector's Notes & Inspection Date	Ok To Proceed to Next Item
	Site Grading/Lot Line Marking/Tree Clearing		
	<input type="checkbox"/> Verification of building location & utilities <input type="checkbox"/> Distance to lot lines <input type="checkbox"/> Distance to other on-site buildings <input type="checkbox"/> Distance to public way and/or setbacks <input type="checkbox"/> Distance to easements, etc <input type="checkbox"/> Observe locations of any overhead power line conflicts <input type="checkbox"/> Verify site address <input type="checkbox"/> Trees – 6” or larger in diameter must be marked and saved where possible <input type="checkbox"/> Visual inspection is required prior to lot clearing <input type="checkbox"/> Clearly mark trees to be removed with ribbon, compatible paint. Etc - compare with/to approved lot clearing plan <input type="checkbox"/> Approved drawings and permit on-site & available <input type="checkbox"/> Other _____		
	Excavation for footings and underground utilities (before concrete placement/pour or excavation backfill)		
	<input type="checkbox"/> Soil bearing capacity verification <input type="checkbox"/> Frost Depth verifications <input type="checkbox"/> Forming: dimensions, depth, height, steps, sizing, cantilevers, setbacks <input type="checkbox"/> Steel rebar, reinforcement ties, clearances to forms & earth		

Required Inspection for this approval	Inspection Item Description	Inspector's Notes & Inspection Date	Ok To Proceed to Next Item
	(Continued) - Excavation for footings and underground utilities (before concrete placement/pour or excavation backfill)		
	<input type="checkbox"/> Electrical grounding attachment to footing rebar <input type="checkbox"/> Interior footing pads, reinforcing, bearing, etc <input type="checkbox"/> Concrete quality check, if on-site <input type="checkbox"/> Plumbing, electrical &/or gas line sleeves & protection <input type="checkbox"/> Other _____		
	Foundations (before concrete placements/pour or excavation backfill)		
	<input type="checkbox"/> Forming: dimensions, depth, height, steps, cantilevers <input type="checkbox"/> Foundation connections & relationship to footings, piers, cussions, etc <input type="checkbox"/> Foundation elevation verification <input type="checkbox"/> Steel rebar, reinforcing ties, clearances to forms & earth <input type="checkbox"/> Concrete quality check, if on site <input type="checkbox"/> Foundation drainage, drain tile verification (Schedule 35), proper hole orientation, gravel base & cover <input type="checkbox"/> Storm drain verifications, downspouts (underground lines Schedule 40), gravel base & cover <input type="checkbox"/> Termite protection, solid block top course <input type="checkbox"/> Load path verifications, solid block beam & bearing locations <input type="checkbox"/> Structural positive attachments, anchor bolt locations, sizes, etc <input type="checkbox"/> Basement window openings, basement egress <input type="checkbox"/> Waterproofing/dampproofing <input type="checkbox"/> Plumbing. Electrical & gas line sleeves & protection <input type="checkbox"/> Other _____		
	Lowest Floor Elevation Verification		
	<input type="checkbox"/> Approved construction documents must indicate whether or not the building is to be located in a flood hazard area – approved documents shall indicate the specified elevation of the lowest floor for verification <input type="checkbox"/> Other _____ (See OBC Chapter 1 commentary)		
Required Inspection for this approval	Inspection Item Description	Inspector's Notes & Inspection Date	Ok To Proceed to Next Item

	Concrete Slab & Under-floor Inspection		
	<p>_____ To be performed after all equipment, pipes, insulation, etc is installed but before concrete is poured or sheathing is installed</p> <p>_____ Waterproofing/dampproofing</p> <p>_____ Underground HVAC, electrical, plumbing work verifications</p> <p>_____ Vapor barrier (poly), mesh, steel reinforcement placements</p> <p>_____ Drain tile around habitable areas</p> <p>Under slab insulation placements, rebar, chairs, etc</p> <p>_____ Crawl space ventilation, vapor barrier poly, etc</p> <p>_____ Gravel fill, compaction, etc</p> <p>_____ Slab expansion, control joints, isolation joints, bond breakers, slope, etc</p>		
	Framing Inspection – (Pre-mechanical systems installations)		
	<p>_____ Structural framing complete through roof sheathing, deck materials</p> <p>_____ Load path verifications, ceiling heights, bearing & non-bearing walls</p> <p>_____ Positive attachment verifications</p> <p>_____ Materials, assemblies, methods, member sizes, joist spans, locations, nailing, fastening, etc per approved documents</p> <p>_____ Metal joist & truss & bracing installation, per metal joist & truss shop drawings on-site</p> <p>_____ Steel frame inspection, welds, etc</p> <p>_____ Bracing wall arrangement verification, bearing, connections, welds, etc</p> <p>_____ Fire blocking/firestopping installations</p> <p>_____ Manufacturer’s installation instructions for pre-fabricated units, chimneys, fireplaces, etc on-site</p> <p>_____ Tyvek wrap or moisture barrier installations</p> <p>_____ Building height verifications</p> <p>_____ Egress systems</p> <p>_____ Accessibility</p>		
	Plumbing (Building Services Equipment) (Underground, rough (before drywall) testing & final inspections) (typical)		
	<p>_____ Underground sanitary & storm sewer with tests</p> <p>_____ Above ground waste & vent with test, water piping test</p>		
Required Inspection for this approval	Inspection Item Description	Inspector’s Notes & Inspection Date	Ok To Proceed to Next Item
	(Continued) - Plumbing		

	(Building Services Equipment) (Underground, rough (before drywall) testing & final inspections) (typical)		
	<input type="checkbox"/> Final inspection with an air test, temperature verifications, water hammer arrestors, etc <input type="checkbox"/> Roof drain piping into storm sewer, flow test, subsurface & surface water disposal <input type="checkbox"/> Backflow prevention verifications <input type="checkbox"/> Frost free hose bibs <input type="checkbox"/> Protection plates at stud walls, etc <input type="checkbox"/> Drain & vent plumbing isometric on-site <input type="checkbox"/> Sleeves through foundation walls, masonry & footing <input type="checkbox"/> Specialty plumbing systems, grease traps, interceptors, etc <input type="checkbox"/> Roof drainage & overflow provisions <input type="checkbox"/> Plenum location verifications & proper materials <input type="checkbox"/> Manufacturer's installation instructions for all plumbing equipment & piping method(s) on-site for inspectors use		
	Electrical (Building Services Equipment) (Underground, rough (before drywall) testing & final inspections) (typical)		
	<input type="checkbox"/> Underground trenching (before covering) <input type="checkbox"/> Temporary Service <input type="checkbox"/> Permanent Service <input type="checkbox"/> Waterproof, weatherproof, GFCI's & Arc Fault protection <input type="checkbox"/> Romex perpendicular to cold-air returns <input type="checkbox"/> One cable per hole or staple <input type="checkbox"/> Protection plates <input type="checkbox"/> Attic light & switch, exterior door light & switch <input type="checkbox"/> Outlet & switch verifications, smoke detection, plenum location verifications & proper materials <input type="checkbox"/> Grounding provisions <input type="checkbox"/> Listing verifications <input type="checkbox"/> Materials, wiring methods, conduit, pipe, duct, etc <input type="checkbox"/> Fixtures installed in accordance with approved construction documents, listings manufacturer's installation instructions		
Required Inspection for this approval	Inspection Item Description	Inspector's Notes & Inspection Date	Ok To Proceed to Next Item
	HVAC (Building Services Equipment) (Underground, rough (before drywall) testing & final inspections) (typical)		

	<input type="checkbox"/> Heating, ventilation, exhaust & cooling <input type="checkbox"/> Ductwork, support, hangars, sizes <input type="checkbox"/> Duct insulation, wrap & sealing, jointing <input type="checkbox"/> Supply air & return air verifications, plenum location verifications & proper materials <input type="checkbox"/> Check for proper wiring in ducts & returns <input type="checkbox"/> RTU's, furnace & AC unit installations <input type="checkbox"/> Hydronic heating & tests <input type="checkbox"/> Kitchen exhaust, location, termination <input type="checkbox"/> Bathroom exhaust, location termination <input type="checkbox"/> Listing verifications <input type="checkbox"/> Kitchen hoods & testing, exhaust fans & testing, grease ducts, MUA units, etc <input type="checkbox"/> Final air balance schedule matches approved plans <input type="checkbox"/> Fire dampers, smoke dampers, combination dampers <input type="checkbox"/> Manufacturer's installation instructions for all HVAC equipment on-site for inspection		
	Gas (Building Services Equipment) (Underground, rough (before drywall) testing & final inspections) (typical)		
	<input type="checkbox"/> Underground, trenching (before covering) Pipe supports, pipe materials, shut-offs, connectors (coated), dirt leg <input type="checkbox"/> Test(s) at new piping work <input type="checkbox"/> Metallic gas line bonding, Non-metallic system bonding <input type="checkbox"/> Sleeves & protection <input type="checkbox"/> Manufacturer's installation instructions for all gas equipment & piping method on-site for inspection		
	Energy Efficiency/envelope inspection (required before concealment)		
	<input type="checkbox"/> Materials, Type, U & R values, sizes, insulation thickness depth <input type="checkbox"/> Air barrier/infiltration method(s)/sealing: caulking, putties, weather-stripping door & window specifications and manufacturer's instructions, ductwork wrap & sealing, infiltration wraps <input type="checkbox"/> Vapor barrier installation, under slab, walls, ceiling		
Required Inspection for this approval	Inspection Item Description	Inspector's Notes & Inspection Date	Ok To Proceed to Next Item
	(Continued) - Energy Efficiency/envelope inspection (required before concealment)		
	<input type="checkbox"/> Equipment efficiency: furnace/AC unit, water heater, boiler, humidifier, dehumidifier, etc <input type="checkbox"/> Manufacturer's plate to match spec & installation in accordance with manufacturer's installation		

	instructions (Verify listing)		
	Final Frame Inspection (to be called for & performed after: Rough mechanical (HVAC), rough electrical, rough water supply, rough sanitary, chimney & vents installed structural framing is complete through roof sheathing, fire/blocking/stopping is in place)		
	<p>____ Verify Roughs – Electrical, HVAC, Plumbing, Gas work is complete with tests</p> <p>____ Verify construction, materials, assemblies methods, fastening, forming (dimensions, depth, height, steps, cantilevers), relationship to footings, piers, cussions, etc, reinforcing ties & steel, dimensions to forms, concrete quality check if on-site</p> <p>____ Structural framing complete through roof sheathing, headers, wall & roof sheathing, clips</p> <p>____ Load path verifications & positive attachment verifications</p> <p>____ Materials, assemblies, methods, sizes, spans, location, nailing, etc per approved documents</p> <p>____ Truss & bracing installation, per truss shop drawings on-site</p> <p>____ I-Joist installation verifications per I-joist shop drawings on-site</p> <p>____ Bracing wall arrangement verification</p> <p>____ Fire blocking/firestopping installations</p> <p>____ Dimensions of structural & non-structural members</p> <p>____ Grade & species, gage and type of metal, concrete assemblies & other special inspection related construction</p> <p>____ Location of bearing and non-bearing walls</p> <p>____ Square footage and height of spaces and ridge/building height</p> <p>____ Window & door installations, safety glazing</p> <p>____ Some penetration protection</p> <p>____ Tyvek wrap or moisture barrier installations</p> <p>____ Attic and/or concealed space access verifications</p> <p>____ Manufacturer’s installation instructions for pre-fabricated units, chimneys, fireplaces, etc on-site</p>		
Required Inspection for this approval	Inspection Item Description	Inspector’s Notes & Inspection Date	Ok To Proceed to Next Item
	Fire-resistive assemblies and penetration inspection (to be requested before concealment)		
	<p>____ Verify materials</p> <p>____ UL design # and actual section of assembly</p> <p>____ Size: thickness</p> <p>____ Type: interior, exterior, cement, gypsum, water resistant, fire resistant, etc Fire-Shield, Sound Break, Shaft liner, Type X</p> <p>____ Type of fasteners, size, spacing and depth,</p>		

	etc. <input type="checkbox"/> Orientation of materials or board: vertical, horizontal, overlap of joints spacing <input type="checkbox"/> Internal additional parts, particularly important for rated assemblies, resilient metal furring channel, U, Z & N spacing metal, stud type and spacing cavity fill materials <input type="checkbox"/> Check for back to back penetrations - outlets, boxes, cabinets, etc <input type="checkbox"/> Rated openings – doors, windows, shutters, etc – design #'s, label mathes design #, parts are compatible with listing and rating of assembly, closers, reveals, opening/closing force, latching, etc <input type="checkbox"/> Other _____		
	Fire protection Systems (Fire Suppression, Fire Alarm) Rough, Tests, & Final		
	<input type="checkbox"/> Materials, spacing, hazard class match, locations, support, etc <input type="checkbox"/> Hydrostatic test & certifications, water pressure verifications, main drain & flow tests <input type="checkbox"/> FA Devices locations, panel location, etc <input type="checkbox"/> Kitchen hood fire suppression system <input type="checkbox"/> Specialty system <input type="checkbox"/> Standpipe locations <input type="checkbox"/> Final/operative inspections to verify equipment, materials, method of installation, fixtures installed per manufacturer's installations, listings and all tests required have been conducted <input type="checkbox"/> Fire suppression test certification papers <input type="checkbox"/> Fire alarm test certification papers		
	Accessibility		
	<input type="checkbox"/> Exterior & interior provisions <input type="checkbox"/> Bathrooms <input type="checkbox"/> Parking <input type="checkbox"/> Dwelling units <input type="checkbox"/> Service counters <input type="checkbox"/> Door hardware, railings, ramps		
Required Inspection for this approval	Inspection Item Description	Inspector's Notes & Inspection Date	Ok To Proceed to Next Item
	Lath, Gypsum Board Inspection (to be requested after lath and/or gypsum board are installed before plastering, joint filling and finishing occurs. Ideally, the inspection would occur before all board is hung so the inspector can verify assemblies have proper elements within – in the alternative, random disassembly can be requested)		
	<input type="checkbox"/> Verify materials <input type="checkbox"/> Design # and actual section of the assembly,		

	lateral force & STC rating ____ Size – thickness ____ Type – interior, exterior, cement, gypsum. Water resistant, fire resistant, etc ____ Type of fasteners, size, spacing and depth, manufacturer’s installation instruction (check against listing)		
	Fireplace		
	____ Smoke chamber and fire box when at damper height ____ Clearances from combustibles ____ Chimney throat, fresh air intake ____ Pre-fabricated units installed per manufacturer’s installation instructions ____ Other _____		
	Interior, Storage & Finishes		
	____ Tile backer board locations, green board installations ____ Storage configurations, rack storage, hazardous material verifications ____ Interior finishes per OBC ____ Chapter 8 ____ Carpeting test certifications ____ Handrails & guardrails		
	Fabric Structures, Awnings, etc		
	____ Material flame-resistance certifications ____ Frame structure & attachments		
	Egress Systems		
	____ Width and height clearances, door swings, posting of occupant loads and adequacy of elements in means of egress system, assembly seating, lighting of path of travel, exit signs, etc		
Required Inspection for this approval	Inspection Item Description	Inspector’s Notes & Inspection Date	Ok To Proceed to Next Item
	Exterior & Exterior Envelope Materials		
	____ Masonry or brick, ties, flashing, weep holes, expansion ____ Wood siding installation, “rain screen” ____ Vinyl siding ____ EIFS, stucco installation, screed ____ Metal panel systems, manufacturer’s shop drawings		
	Roofing		
	____ Roof assemblies – design details, installation of underlayment/sub-base & exposed surface, fastening, wind exposed edge detail, installed in accordance with manufacturer’s installation instructions and approved construction documents		

	<input type="checkbox"/> Shingle installation, underlayment – ice & water shield, felt, metal drip edge <input type="checkbox"/> Metal roofing installation, manufacturer’s drawings on-site Flashing, penetration flashing, roof to wall details & terminations <input type="checkbox"/> Gutters & downspouts		
	Subsurface & Surface Water Disposal		
	Special Inspections		
	<input type="checkbox"/> Reports & records of findings and sequence of corrections, etc		
	Industrialized Units		
	<input type="checkbox"/> Transportation damage, unit matching approval, site completion work, tests, etc <input type="checkbox"/> Utility connections		
	Final Inspection & Life Safety Review (For Occupancy)		
	<input type="checkbox"/> Test smoke detection, fire alarm system <input type="checkbox"/> Water temperature, final plumbing tests <input type="checkbox"/> Handrails, locking hardware <input type="checkbox"/> Occupancy posting installed (Assembly uses)		
	Other Inspections Required By Building Official based on Project Scope		
	<input type="checkbox"/> Other _____		