

2018 NEW CASTLE COUNTY COMMERCIAL CLOSE-IN CHECKLIST

(2018 IBC)(IPC 2015)(2015 IMC)(2015 IFGC) Vα@ V## #

Rev 1/29/19

Pass **Corr** **N/A**
1.

GENERAL

- Permit displayed at worksite Ch 6 6.03.012(Q)
- Access provided to all areas to be inspected Ch 6 6.03.018(A,D)
- NCC approved, stamped building and L & G plans available at site Ch 6 6.03.013(B3a)
- NCC Approved stamped building plans available at inspection site Ch 6 6.03.013 (B3a)
- Info on drawings shall clearly indicate the extent of the work Ch 6 6.03.013(B)
- All revisions to approved drawings have been submitted to & approved by NCC Ch 6 6.03.013(B1)
- All required child permits issued: Ch 6 6.03.012(A)
 - Plumbing – in and out
 - Sewer and water
 - HVAC
- As-built survey approved when required Ch 40 Sec 40.22.230(C)
- All required inspections completed to date: Ch 6 6.03.018(E,F)
 - Footings
 - Underground Plumbing
 - Lath
 - Foundation
 - Pre-slab
 - Gas Test
 - Exterior Framing
 - Weather Barrier
- Required third-party inspection reports received & approved by NCC Ch 6 6.03.018(C,E,G,H)
- Rough wiring inspection approval on site Ch 6.03.018(A,E), DE Title 24, Ch 14 Sec 1420
- Self-cert inspections (DWV, U/G, S/W) received & approved or witnessed IPC 312
- Contractor Verification Form properly completed Ch 6 6.03.002
- Remind contractor of Final Inspection requirements, for example: Fire Marshall, Final Electric, Board of Health, Record Plan Inspection Ch 6 6.03.012(I), Ch 6 6.03.018
- All equipment and materials installed in accordance with the manufacturer's installation instructions

2.

E&S CONTROLS (IF STILL REQUIRED TO BE IN PLACE DUE TO SITE CONDITIONS)

- Silt fence per approved plan & functioning E&S Handbook 3.1.2-1, Ch 6 6.03.013
- Construction entrance installed & functioning E&S Handbook 3.4.7-1, Ch 6 6.03.013

3.

BUILDING AREA AND TYPE

- Verify square footage matches approved plan Ch 6 6.03.013(B1a1)
- Verify building use group compliance (must be shown on plan) Ch 6 6.03.013(B1a1), Ch 6 6.03.012(F) IBC Ch 3
- Verify construction matches construction type (1, 2, 3, 4 or 5) IBC Ch 6
- Verify construction types 1 & 2: Combustible materials used only in area allowed by code IBC 603.1

4.

WALLS

- Verify safeguards during construction are installed (barriers, fire extinguisher, etc.) IBC Ch 33
- Verify framing per plan, including attachment per plan and bracing requirements (5lbs/ft² for walls over 6' at Final Inspection) Ch 6 6.03.013(B1), IBC 1607.15
- Structure is weather-tight (areas susceptible to water infiltration protected) IBC 1404.2
- Verify rated assembly locations and construction matches approved plan Ch 6 6.03.013(B1), IBC Ch 7
- Verify fire resistance rating of structural members (if required) IBC 704
- Fire resistance rated material installed or applied properly to structural members IBC 704
- Verify no materials (pipes, wires, conduits, ducts or other service facilities) embedded in required fire protective covering IBC 704.8
- Combustible materials in type I and II constr. installed only where allowed IBC 603.1, Ch 7
- Fireproofing detail for rated wall penetrations provided and installed (wiring, plumbing, conduit, etc.) per approved construction documents & per manufacturers specifications if applicable Ch 6 6.03.013(B1), IBC Ch 7
- Fireproofing detail for duct penetrations provided and followed (if required) IBC Ch 7, Ch 6 6.03.013(B1)
- Verify continuity of shaft walls (floor to ceiling & all walls complete) IBC 707.3.1, 713
- Verify rating required on approved construction documents: Ch 6 6.03.013(B1)
 - Incidental use areas IBC (T) 509
 - Required separation of occupancies IBC (T) 508.4
 - Fire resistance rating requirements IBC (T) 601, (T) 602
- Approved fire blocking materials used, fire blocking installed in concealed spaces in construction in types 3, 4, 5 only IBC 718
- In-wall HVAC matches plan entirely (Note: corridors shall not serve as supply, return, exhaust, relief or ventilation air ducts or plenums (w/ except) IBC 1020.5, Ch 6 6.03.013(B1)
- Corridor fire resistance rating per code IBC (T) 1020.1

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- Insulation installed—verify R-values per plan (Note: insulation must meet a FS 25/SD 450 including facings in any type of construction, except facings in types 3,4,5 construction when installed behind and in substantial contact with the unexposed surface of the ceiling, wall or floor (i.e. paper-faced is acceptable) IBC 720, Ch 6 6.03.013(B1)

5. **PLUMBING**

- Materials used & joints installed per code (no type M or WM copper allowed) IPC 605, (T) 605.4, (T) 605.5, 702, Ch 6 6.07.002
- Piping installed per NCC approved construction documents Ch 6 6.03.013(B1)
- Required pipe protection in place (excluding cast iron & galvanized steel), Shield plates required for non-metallic piping only IPC 305, 307
- Pipes sized properly for fixtures served IPC (T) 604.5, (T) 709.1
- Pipes supported and sloped per code IPC (T) 704.1, (T) 308.5
- All full-open and shut-off valves are accessible & located per code IPC 606.3, 606.1, 606.2
- Verify minimum facilities/fixtures installed for use group & occupant load (drinking fountains, water closets, lavatories, bathtubs/showers, service sinks) IPC (T) 403.1
- Verify air admittance valves installed properly, if used (valves shall not be installed or located in spaces utilized as supply or return air plenums) (must be approved by code official prior to use or installation) IPC 917

6. **FLOOR/CEILING ASSEMBLIES**

- Floor/ceiling assemblies match rating required on plan Ch 6 6.03.013 (B1), IBC 711
- Floor/ceiling fireproofing installed correctly & per plan (must provide complete separation between floors, check curtain wall cavities) IBC 711, 712, Ch 6 6.03.013(B1)
- Review guardrail required for elevated walking surfaces with contractor (42" required, except R-3 (SFD/T/H) & R-2 (apartments) = 34-38") IBC 1014, 1015

7. **ABOVE CEILING**

- Rough-in HVAC matches plan entirely (duct size, materials, location, dampers installed, insulation meets 25/50 rule, smoke detectors, if required). (Note: 25/50 rule; all exposed materials in a plenum shall have a flame spread index of not more than 25 & a smoke developed index of not more than 50) IMC 604.3, 603, 606, Ch 6 6.03.013(B7)
- Plenum space constructed of approved materials for correct type of construction: (All materials exposed within a plenum are non-combustible) IMC 602
- Wiring cables & raceways must be listed & labeled as plenum rated IMC 602.2.1.1
- No fuel-fired equipment located within a plenum IMC 602.1
- Plenum shall be limited to one fire area IMC 602.1
- Shut-off valves shall be prohibited in concealed locations & furnace plenums IFGC 409.1.2, IMC 602.1
- Draft stopping installed with approved materials where required (types 3, 4, 5 construction) IBC 718.3, 718.4

8. **STAIRWAYS**

- Material consistent with construction type IBC 1011.7, 1023.2
- Fire-rating conforms to plans & egress requirement (vertical exit enclosure) Ch 6 6.03.013(A), IBC 1019
- Treads do not slope more than 1:48 in any direction. Verify tread (min 11"), riser (max 7"/min 4") & rise uniformity (3/8") IBC 1011.5
- Egress walking surfaces shall have a securely attached slip-resistant surface IBC 1003.4
- Review signage (exit, floor, and bathroom) & handrail/guardrail (including not ladder-like) requirements for final with superintendent IBC 1013,1014,1015
- Verify no penetrations into exit enclosures (except exit doors, sprinklers, standpipes, electric & HVAC serving the exit enclosure only) IBC 1005.3.1, 1023.5
- Verify min stairway width, if NOT used as egress (44" with exceptions) IBC 1011.2
- Verify min stairway width met, if "accessible" means of egress (generally 48" with exceptions) IBC 1009.3.2
- Verify min headroom (80", with exceptions) IBC 1011.3
- Verify handrail height (34" to 38") and is graspable IBC 1014.2
- Verify discharge identification (stairway cannot continue below level of exit discharge without barrier) IBC 1013

Inspector: _____ Permit Number: _____

Date: _____ Inspection Results: Pass Partial Corrections Required