



Policy on Racking /Shelving Systems installed in Buildings

The North Carolina Building Code requirements that buildings and racking /shelving systems installed therein conform to seismic code requirements and other pertinent code requirement. Based on the height of materials stored on shelving and the classifications of such materials, the North Carolina Fire Code classified certain installations “High Pile Combustible Storage”. To ensure code compliance and safety, the department reviews plans on such buildings and shelving systems prior to issuance of permits for construction. Building projects of this type will follow one of the following 3 listed paths for plan approval and permitting process.

1. Full sealed plans submitted, reviewed and approved for the building and racking / shelving systems. Permits are then issued for the building and racking /shelving system either together or separately. Drawing must included the following:
 - a. Appendix B
 - b. Commodities Letter
 - c. Complete Sprinkler Drawings
 - d. Hydraulic Design Criteria with note indication height to top of materials stored and distance from top of stored materials to sprinkler heads
 - e. Sealed drawing showing anchors in details or drawings and calculations if anchor details are not sealed in the plan submission for the project
 - f. Egress / floor plan showing racking layout, exits and directional signage as needed to meet code compliance

2. Plans submitted, reviewed and approved for the “shell” building with “upfit permits” issued at a later date. The upfit permit may or may not include the racking /Shelving permit. Plans must be reviewed and approved prior to issuance of the upfit permits (which include the racking /shelving system).
 - a. Appendix B
 - b. Commodities Letter
 - c. Complete Sprinkler Drawings
 - d. Hydraulic Design Criteria with note indication height to top of materials stored and distance from top of stored materials to sprinkler heads
 - e. Reflected Ceiling Plan
 - f. Egress / floor plan showing racking layout, exits and directional signage as needed to meet code compliance

3. Racking / Shelving permit issued separately as a breakout from the upfit and require plans that include the following:
 - a. Appendix B (may submit original field copy of approved upfit plans or submit Appendix B form the upfit permit drawings)
 - b. Commodities letter
 - c. Complete Sprinkler Drawings
 - d. Hydraulic Design Criteria with note indication height to the top of materials stored and distance from top of stored materials to sprinkler heads
 - e. Reflected Ceiling Plan
 - f. Egress / floor plan showing racking layout, exits and directional signage as needed to meet code compliance
 - g. For seismic, either provide sealed drawing with anchor details or provide and anchorage calculations and drawing (if not sealed by NC registered engineer)
 - h. Site Plan Vicinity Map