



Sprinkler Plan Review Requirements

2018 IBC

Send all permit submittals as PDF documents or email a cloud server or Dropbox file link to planreviewer@cityofmyrtlebeach.com, including a completed permit application and a set of signed, stamped and dated plans by a SC registered engineer. The following is a list of minimum requirements:

- Certificate of Compliance with correct address, stamped, signed and dated by a SC registered engineer;
- Specification sheet with correct address;
- Hydraulic Calculations;
- Indicate on plan:
 - Seismic bracing locations
 - Seismic bracing detail
 - Location of FDC (FDC cannot be located on building)
 - Location of fire extinguishers (min. 4” from floor, 60” to top of extinguisher; max 75’ travel distance or 150’ apart)
 - Type of fire extinguishers to be ABC (multi-purpose)
 - Stairways & all areas where lines are to be heated to min. 40 degrees F
 - Spare sprinkler heads in sprinkler room
 - Riser detail.

If relocating or adding heads to an existing system (no matter the amount of heads), submit a set of stamped, signed and dated plans by a SC registered engineer along with the manufacturer’s specification sheet;

If adding more than 20 heads to an existing system, a plan is required and a Certificate of Compliance with correct address, stamped, signed and dated by a SC registered engineer; submit specification sheet with correct address;

Lowering or raising existing heads requires a permit but does not require a plan or plan review.

Contact:

Colleen Hajnal
Plans Expeditor
(843) 918-1195
chajnal@cityofmyrtlebeach.com



CITY OF MYRTLE BEACH CONSTRUCTION SERVICES BUILDING FIRE PERMIT APPLICATION

Job Site/ Physical Address		Building Use <input type="checkbox"/> Commercial <input type="checkbox"/> Res	Zoning District	Flood Zone	
Lot #	Block	Section/ Subdivision	TMS/PIN		
Owner of Property		Mailing Address		Phone	
Lessee/Business Name		Mailing Address		Phone	
Contractor		Mailing Address		Phone	
				City License #	
				State License #	
Architect/Engineer		Mailing Address		Phone	
				City License #	
				State License #	
Work Classification <input type="checkbox"/> New <input type="checkbox"/> Addition <input type="checkbox"/> Alteration <input type="checkbox"/> Repair <input type="checkbox"/> Remove/Demo				Property Maintenance <input type="checkbox"/> Yes <input type="checkbox"/> No	
Nature of Work: <input type="checkbox"/> Sprinkler System <input type="checkbox"/> Fire Alarm System <input type="checkbox"/> Fire Alarm Panel <input type="checkbox"/> Standpipe System <input type="checkbox"/> Kitchen Hood w/Suppression <input type="checkbox"/> Automatic Extinguishing System (Requires mechanical permit) <input type="checkbox"/> Underground Fireline					
Description of Work					
IBC/IRC CODE YEAR _____	Tap Ticket #	Sprinkled <input type="checkbox"/> Yes <input type="checkbox"/> No	Type Construction	Occupancy Group	Sq Ft
Total Valuation		Plan Review Fee		Permit Fee	
Date Received		Date Issued		Permit #	
<i>I hereby certify that I have read and examined, or have had read to me, this application and understand this application to be true and correct. Compliance with all provisions of laws and ordinances governing this type of work shall be assured whether specified herein or not. The granting of this permit does not presume to give authority to violate or cancel the provision of any federal, state or local laws regulating construction, or the performance of construction.</i>					
Signature of Owner or Authorized Agent		Printed Name		Phone	Fax
Company		Email Address			

Project Coordination

Department	Required	Permit Approval Signatures
Zoning		
Building/Fire		
Engineering		
Business License		

This permit becomes null and void if work or construction which is authorized is not commenced within six months of its issuance, or if work or construction is suspended or abandoned for a period of 6 consecutive months at any time after it is commenced. This permit does not grant any right or privilege to erect any structure or to use any premises herein described for any purpose or in any manner prohibited by the Zoning Ordinance of the City of Myrtle Beach.

Construction Services, 921 N Oak St, Myrtle Beach, SC 29577, Ph: 843-918-1111
 Remit to planreviewer@cityofmyrtlebeach.com or Fax: 843-918-1158

Sprinkler Plan Review Requirements

SC Code of Law Section 40-10-250. Fire Protection Sprinkler System Specification Sheet; completion of form; attachment of building permit applications.

- (A) A “Fire Protection Sprinkler System Specification Sheet” must be completed for every fire protection sprinkler system, and submitted on a form approved by the State Fire Marshal’s Office to the authority having jurisdiction. The completed form must contain the following information at a minimum:
- (1) the available static and residual water pressure from a flow test conducted less than one year before submittal;
 - (2) the volume per minute of the available water flow and duration;
 - (3) the source of water supply;
 - (4) the NFPA hazard classifications and details of storage arrangement, if applicable;
 - (5) the occupancy use of the building, or the area to be sprinkled;
 - (6) the type of system to be installed;
 - (7) the applicable National Fire Protection Association standards to be followed for each component of the system;
 - (8) the other state and local statues, regulations, codes, or ordinances that must be followed;
 - (9) the name, address, title, and phone number of the person developing the fire sprinkler system specification sheet.
- (B) The form must be completed by:
- (1) a professional engineer licensed in this State bearing his professional seal and signature; or
 - (2) a fire sprinkler contractor licensed in this State with a qualifying party holding a NICET Level IV Technician Certification in “Fire Protection Engineering Technology Automatic Sprinkler System Layout” if a specific statute, regulation, or ordinance does not require the services of a licensed professional engineer. The qualifying party must be the individual completing the form, and he must place his name on the lower right hand corner on the first page of the form with the words “Qualifying Party” after his name and with his qualifying party certificate number.



PROJECT: _____

PERMIT #: BF _____

permittech@cityofmyrtlebeach.com

OR FAX 843-918-1158

Sprinkler System Acceptance Testing NFPA 13 and 13R

1. Hydrostatic tests
 - a. Witness above ground and below ground hydro test prior to inspection and obtain certification forms on each.
 - b. Above and below ground hydro test shall be at 200 psi for a period of two hours without any pressure loss readings on the gauges.
 - c. All underground lugs shall be coated for corrosion protection.
 - d. In addition to the standard hydrostatic test, on dry valve systems an air pressure leakage test at 40 psi shall be conducted for a period of 24 hours. Any leakage that results in a loss greater than 1.5 psi shall be corrected.
2. System testing
 - a. OSY valves located in the backflow preventer vault shall be secured by lock and chain.
 - b. Fire department connection shall be labeled.
 - c. The FDC shall be within 100 ft. of a hydrant.
 - d. The door to the sprinkler riser room shall be labeled.
 - e. Verify that the approved stamped sprinkler plans are with the riser.
 - f. Verify that all required tamper and flow switches are located correctly and wired to the fire alarm system.
 - g. Verify that a box with spare sprinkler heads and a wrench is mounted in the sprinkler riser room on the wall.
 - h. Verify that a temperature in the room with the riser be maintained at a minimum of 40 degrees F.
 - i. Observe main drain and location with the approved plans.
 - j. If the valve is a dry system valve, make a notation of the pressure on both sides of the valve (dry and wet side).
 - k. Observe that all arms on the sprinkler heads run parallel with the branch line they are installed on.
 - l. Waterflow detecting devices including the associated alarm circuits shall be flow tested through the inspector's test connection and shall result in an audible alarm on the premises.
 - m. A metal plate with the hydraulic calculations shall be attached to the riser for annual inspection data.
 - n. A working test of the dry pipe valve alone, and the quick opening device if installed, shall be made by opening the inspector's test connection. All times shall be measured from the time the inspector's test connection is fully open. The results shall be recorded using the Contractors Material and Test Certificate for Above Ground Piping.
 - o. Dry type valves exceeding 500 gal. shall be provided with a listed quick-opening device if the time of the above test exceeds 60 seconds.
 - p. Air supply and other requirements shall be governed by NFPA 13.
 - q. All sprinkler heads shall be checked for proper clearances and free of obstructions including paint or other foreign objects.

There shall be a 48 hour notice before a sprinkler test request is called into Construction Services with the exception of hydrostatic testing and underground piping inspections. During the inspection if any two of the above acceptance tests fail, the inspection will be terminated until a reinspection fee is paid and a 48 hour notice is once again given.

I have checked the above procedures and all items on the list are working properly.

Signature _____ Date _____

Print Name _____

Company _____

The form shall be emailed to permittech@cityofmyrtlebeach.com or faxed to 843-918-1158 BEFORE scheduling a final inspection.