



# FIRE SUPPRESSION APPLICATION

CITY OF HAMTRAMCK

www.hamtramck.us



**BUILDING DEPARTMENT**  
3401 EVALINE  
HAMTRAMCK,  
MICHIGAN 48212  
(313) 800-5233 Ext. 296

**FIRE DEPARTMENT**  
**FIRE PREVENTION BUREAU**  
2625 CANIFF ST.  
HAMTRAMCK,  
MICHIGAN 48212  
(313) 305-4503 Ext. 225

PERMIT TYPE:	TYPE:	# OF SYSTEMS:	
<b>CIRCLE ONE</b>	SPRINKLER	HYDRAULIC	<input type="text"/>
<b>IN EACH</b>	DRY/WET CHEMICAL	PIPE SCHEDULE	<input type="text"/> ENTER NUMBER
<b>COLUMN</b>	GAS SUPPRESSION		<input type="text"/> IN BOX
	HOOD SUPPRESSION		<input type="text"/>
	PAINT SPRAY BOOTH		<input type="text"/>
	STANDPIPE		<input type="text"/>

**PROPERTY ADDRESS & INFORMATION**

STREET NUMBER \_\_\_\_\_ STREET NAME \_\_\_\_\_ UNIT NUMBER \_\_\_\_\_

NAME OF BUSINESS AT THIS LOCATION \_\_\_\_\_

**APPLICANT INFORMATION:**

CONTRACTOR NAME AS SHOWN ON LICENSE \_\_\_\_\_

STREET ADDRESS \_\_\_\_\_ ( ) \_\_\_\_\_ PHONE NUMBER \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_ ( ) \_\_\_\_\_ FAX NUMBER \_\_\_\_\_

E-MAIL ADDRESS (REQUIRED) \_\_\_\_\_

NOTE: ALL CONTRACTORS MUST REGISTER WITH THE CITY ON A SEPARATE FORM

**PROPERTY OWNER:**

FIRST NAME \_\_\_\_\_ LAST OR BUSINESS NAME \_\_\_\_\_ STREET ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_ ( ) \_\_\_\_\_ PHONE NUMBER \_\_\_\_\_

ALL REQUESTED INFORMATION MUST BE PROVIDED - INCOMPLETE APPLICATIONS WILL NOT BE PROCESSED

FILL IN ONE OF THE NEXT TWO BOXES BELOW COMPLETELY  
DEPENDING ON THE TYPE OF SYSTEM

**FIRE SPRINKLER SYSTEMS:**

CONSTRUCTION COST: \_\_\_\_\_ (INCLUDE ALL COSTS INCLUDING WATER SUPPLY)

TOTAL BUILDING SQUARE FOOTAGE: \_\_\_\_\_ # OF FIRE AREAS: \_\_\_\_\_

TOTAL # OF HEADS: \_\_\_\_\_

BACKFLOW PREVENTER: NEW  EXISTING

CURRENT CERTIFICATION: YES  NO

WATER UTILITIES: NEW \_\_\_\_\_ EXISTING \_\_\_\_\_ SIZE \_\_\_\_\_

FINISH FLOOR ELEVATION: \_\_\_\_\_ FINISH GRADE ELEVATION: \_\_\_\_\_

KNOX BOX ON BUILDING?: YES \_\_\_\_\_ LOCATION \_\_\_\_\_

NO \_\_\_\_\_ (IF NO, OBTAIN APPLICATION FROM F.D.)

**DRY/WET CHEMICAL OR GAS, HOOD SUPPRESSION, SPRAY BOOTH OR STANDPIPE:**

CONSTRUCTION COST: \_\_\_\_\_ (INCLUDE ALL COSTS INCLUDING WATER SUPPLY)

SUPPRESSION AGENT: \_\_\_\_\_ # OF POUNDS OF AGENT: \_\_\_\_\_

TOTAL # OF HEADS/NOZZLES: \_\_\_\_\_

BACKFLOW PREVENTER: NEW  EXISTING

CURRENT CERTIFICATION: YES  NO

KNOX BOX ON BUILDING?: YES  NO  (IF NO, OBTAIN APPLICATION FROM F.D.)

**ARCHITECT OR ENGINEER: (IF APPLICABLE)**

FIRST NAME \_\_\_\_\_ LAST OR BUSINESS NAME \_\_\_\_\_ NUMBER \_\_\_\_\_ STREET NAME \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_ PHONE NUMBER \_\_\_\_\_

( ) \_\_\_\_\_  
FACSIMILE NUMBER (REQUIRED)

SEND PLAN REVIEW COMMENTS TO THE  ARCHITECT/ENGINEER  APPLICANT

**ALL SUBMISSIONS MUST INCLUDE FOUR COPIES OF THE CONSTRUCTION DOCUMENTS. TWO COPIES MUST BE A FULL SIZE COPY (24 X 36 MAXIMUM) TO SCALE, AND TWO COPIES MUST BE NO LARGER THAN 11 X 17 INCHES. ALL REDUCED COPIES MUST BE FULLY LEGIBLE AND HAVE A GRAPHIC SCALE. REVERSED TEXT DRAWINGS WILL NOT BE ACCEPTED.**

**DESCRIBE THE OVERALL SCOPE OF THE WORK**

**THE FOLLOWING ATTACHMENTS ARE PART OF THIS APPLICATION FORM:**

- ✓ FIRE RISER DETAIL
- ✓ FIRE DEPARTMENT MINIMUM PLAN REVIEW REQUIREMENTS
- ✓ BUILDING DEPARTMENT LOCAL REQUIREMENTS FOR INSPECTION OF FIRE PROTECTION SYSTEMS
- ✓ INSPECTION PROCEDURES
- ✓ FIRE SUPPRESSION DESIGN CRITERIA
- ✓ FIRE SUPPRESSION PERMIT FEE SCHEDULE
- ✓ FIRE SUPPRESSION FEE WORKSHEET (TO BE RETURNED WITH APPLICATION)
- ✓ PERMIT PROCESS FLOW CHART

PERMITS ARE NOT TRANSFERABLE AS TO PERSON OR PLACE AND ARE NOT REFUNDABLE. ISSUANCE OF A PERMIT DOES NOT GUARANTEE COMPLIANCE WITH ANY CODE. PLAN REVIEWS NOTE ALL OBSERVED DEFECTS AND ARE SUBJECT TO FIELD CORRECTION. COMPLETED WORK MUST BE INSPECTED IMMEDIATELY. THE APPLICANT SHALL BE RESPONSIBLE FOR OBTAINING PERMITS AND INSPECTIONS AND PAYMENT OF FEES. IF WORK IS STARTED BEFORE A PERMIT IS ISSUED AN ADDITIONAL INVESTIGATIVE FEE WILL BE ASSESSED.

SECTION 23a OF THE STATE CONSTRUCTION CODE ACT OF 1972, ACT 230 OF THE PUBLIC ACTS OF 1972, BEING SECTION 125.15321 OF THE MICHIGAN COMPILED LAWS, PROHIBITS A PERSON FROM CONSPIRING TO CIRCUMVENT THE LICENSING REQUIREMENTS OF THE STATE RELATING TO PERSONS WHO ARE TO PERFORM WORK ON A RESIDENTIAL BUILDING OR A RESIDENTIAL STRUCTURE. VIOLATORS OF SECTION 23a ARE SUBJECT TO CIVIL FINES.

**APPLICANT SIGNATURE:**

I HEREBY CERTIFY THAT I HAVE RECEIVED, READ AND UNDERSTAND THIS FORM AND THE ABOVE ATTACHMENTS AND THAT ALL INFORMATION PROVIDED HEREIN IS CORRECT AND TRUE TO THE BEST OF MY KNOWLEDGE.

APPLICANT'S SIGNATURE

DATE

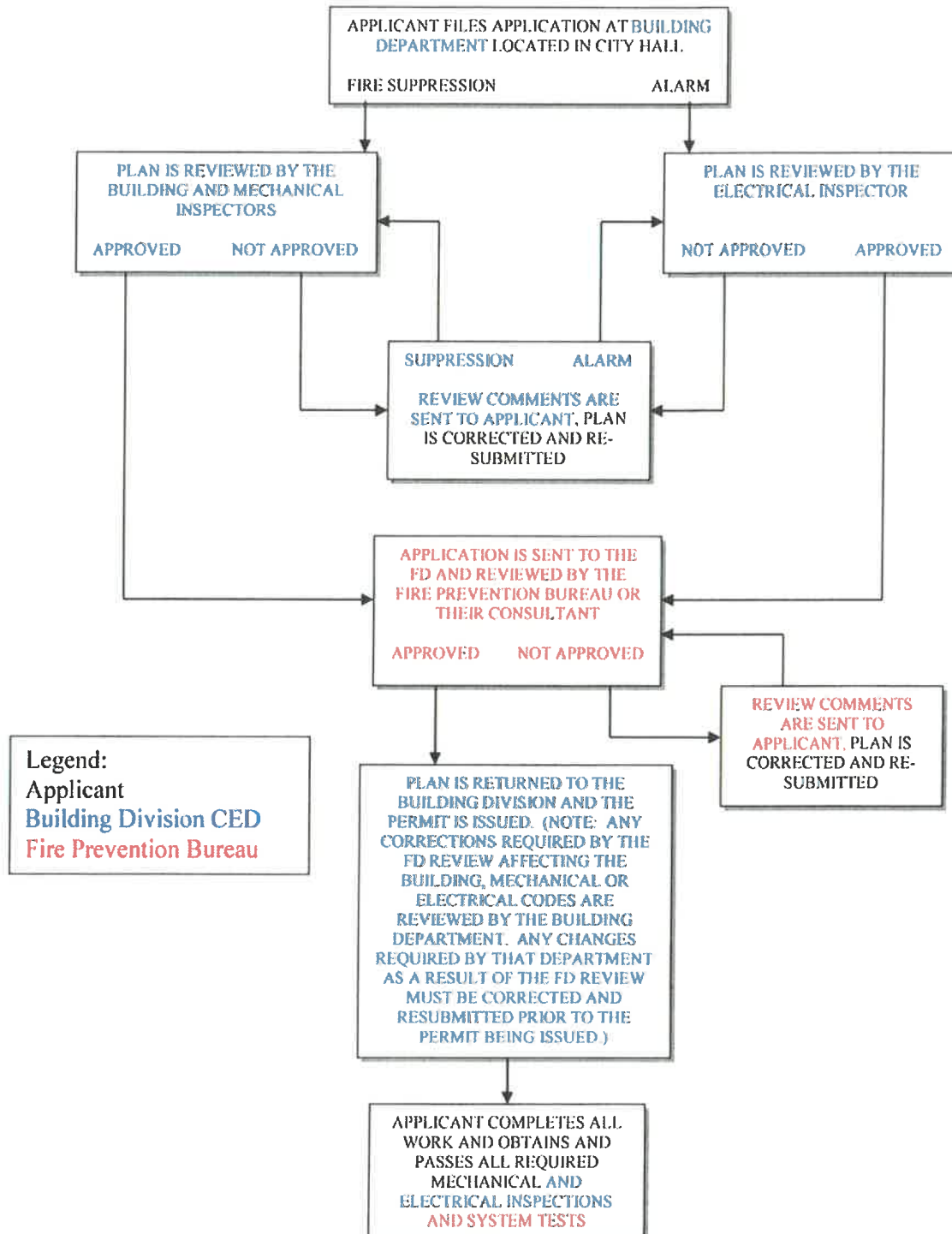
DRIVERS LICENSE NUMBER

DATE OF BIRTH



# CITY OF HAMTRAMCK

## FIRE SUPPRESSION AND FIRE ALARM PERMIT PROCESS



**HAMTRAMCK FIRE DEPARTMENT**  
**"RIGHT-TO-KNOW" FORM**

**BUSINESS INFORMATION**

Name

Address

Phone

**BUSINESS OWNER**

Name

Phone

Email

**EMERGENCY CONTACT 1**

Name

Phone

Email

**EMERGENCY CONTACT 2**

Name

Phone

Email

**BUILDING OWNER**

Name

Phone

Email

**FIRE ALARM COMPANY**

Name

Phone

Email

**FIRE SUPPRESSION COMPANY**

Name

Phone

Email

**UTILITY LOCATION**

Gas

Electric

Water

**KNOX BOX**

YES

NO

Location

**OTHER EMERGENCY CONTACTS**

Name

Phone

Email

## FINAL INSPECTION REQUIREMENTS FOR FIRE PROTECTION, EMERGENCY LIGHTING AND LIFE-SAFETY.

Due to the complexity involved in inspecting and approving the above systems the following shall be the policy regarding final inspections:

In all new or remodeled commercial, industrial and multi-family construction the final inspection of the fire suppression (sprinkler) system, the emergency lighting system, required alarm systems and general life-safety issues including egress routes and aisle width will be done as a combined inspection by the Fire Department and Building Department.

The following guidelines apply:

1. The construction must be substantially complete and ready for occupancy.
2. All suppression, alarm and lighting systems must be fully operational.
3. Fire suppression systems must be pressurized for a hydrostatic test.
4. All windows must be blacked out with plastic or other acceptable means.
5. All fixtures and stock must be in place.
6. All portable fire fighting equipment must be permanently installed.
7. All contractors involved with the systems being inspected shall be on site.

The following items will be checked/tested. (Not an inclusive list.)

1. Complete hydrostatic, residual pressure (open drain) and, where required, trip time tests on the fire suppression (sprinkler) system and fire pump if so equipped.
  2. Audible and visual indicators for fire alarms. These alarms must be visible from all occupied areas of the structure and produce a sound level of at least 60dB everywhere in the structure.
  3. Emergency lighting system. Emergency lights must produce a light level of not less than one foot-candle in all main and secondary aiseways, at all exit doors and in vestibules, and sufficient additional lighting to permit safe egress from all other areas.
  4. All aisles must provide the minimum required and unobstructed width for their entire length and may not be narrowed in the direction of egress travel.
  5. Operation of all door panic hardware.
  6. Placement and visibility of fire extinguishers and related signage.
  7. Placement of Knox Box.
  8. Location and readability of the permanent address on building.
  9. Location and wording of fire lane signage.
  10. Accessibility and labeling of the F.D. connection.
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## INFORMATION REQUIRED FOR FIRE ALARM AND FIRE SUPPRESSION PLAN REVIEWS

### **Sprinkler System Submittals:**

**\*See NFPA 13 for a complete submittal list.**

- Plans must be to scale and clearly show work to be done including a detailed scope of work.
- Plan must show the job name and address, building dimensions and total square feet.
- The specific type and quantity of sprinklers shall be provided on every page.
- Catalog cut sheets for all sprinklers, valves, etc. shall be included and highlighted.
- Fire hydrant flow test information shall be dated and less than 1 year old.
- Hydraulic calculations shall clearly show the friction loss for the backflow preventer and include a graph curve sheet.
- All hydraulic node points shall be clearly shown on the drawings.
- All ceiling information including soffits, heights, construction type, slope, etc. shall be shown and noted with cross section detailed on the plans.
- Specific code sections and storage information shall be provided for all design densities over Ordinary Group II.
- All plans shall have the contractors name, address, phone and fax number.
- Provide a scaled site plan clearly showing the building fire department connection location and fire hydrant locations.

### **Fire Alarm System Submittals:**

**\*See NFPA 72 for a complete submittal list.**

- Plans shall be to scale and include a scope of work outlining details of the project.
- Plans must show job name and address, building dimensions and total square feet.
- The square foot area of the building shall be noted on the plans.
- Catalog cut sheets shall be provided and highlighted for all components to be installed.
- Specific details shall be provided regarding the offsite monitoring of the system including type of transmission means and name and location of receiving station.
- All wiring information shall be shown on the plans including size, type, and all point to point wire runs.
- Complete battery back up calculations shall be provided that clearly note battery size to be provided.
- Voltage drop calculations for notification devices shall be provided.
- All plans shall have the contractors name, address, and phone number.

### **Kitchen Hood Wet Chemical System Submittals:**

**\*See NFPA 17A for a complete submittal list.**

- Plans shall include exact hood, duct, pipe and appliance dimensions.
- Plans must show job name and address, building dimensions and total square feet.
- Catalog cut sheets shall be provided for all nozzles and equipment to be used.
- The tank size and flow point count shall be noted on the plans.
- All plans shall have the contractors name, address, and phone number.
- A plan view of the kitchen shall show the hood, tank, and pull station locations.
- The plans shall clearly show the type of nozzles to be used and show the mounting height, and aiming point for each.

### **Kitchen Hood Mechanical System Submittals:**

**\*See NFPA 96/mechanical code for a complete submittal list.**

- Plans shall include complete hood, duct and mounting dimensions.
- Plan must show job name and address.
- Plans shall include a roof detail showing the exhaust fans and all equipment within 15'.
- Specific information and manufacturers UL listing shall be provided for all hoods calculated for other than code requirements.
- Complete calculations shall be shown for both the CFM and FPM used in sizing the exhaust duct and fan.
- All plans shall have the contractors name, address, and phone number.





## LOCAL REQUIREMENTS FOR INSPECTION OF FIRE PROTECTION SYSTEMS

1. All hydrostatic and alarm tests must be scheduled directly with the fire department at 313-305-4503 Ext. 225. That office will coordinate with the building department. Piping inspections must be scheduled in the normal manor by calling 313 800-5233 Ext. 296.
2. The riser must be installed in accordance with the approved piping detail. The piping inspection by the Mechanical Inspector must be complete and approved.
3. The suppression system (including required alarms) must be complete and fully operational. We do not witness partial tests.
4. An inspectors test must be installed on **each** riser at the **farthest point** from the water source and reduced to the **smallest size head** in service on that riser.
5. The State of Michigan Bureau of Construction Codes has determined that the alarm system required to monitor a fire suppression system is NOT a "fire alarm" under the code and as such, notification devices are NOT required in the occupied spaces of a building. The Hamtramck Building and Fire Departments **STRONGLY** recommend that notification devices be installed in all buildings in sufficient numbers to alert all the occupants of the activation of the fire suppression system.

Whether the activation is from a fire, or another activity such as damage or freezing, the water flowing from these systems can cause severe building damage and personal injury in a matter of minutes. Immediate notification to building occupants is necessary to protect their safety.

6. Spare heads and wrenches must be in place.
  7. All fire department connections must be a 2 ½ inch siamese connector. There shall be a minimum of ten feet of separation between the F.D. connection and any gas or electric service equipment. All new or modified systems must comply with this requirement and the City riser diagram.
  8. All new or modified systems must comply must conform to current backflow/cross connection rules and the City riser diagram.
  9. Dry pipe systems must be tested for timed operation as well as pressure.
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City of Hamtramck  
 Fee Schedule  
 July 1, 2020 - June 30, 2021

FIRE	Business License Initial Inspection	100.00
FIRE	Business License Re-Inspection	-
FIRE	Business License Additional Failed Inspection	40.00
FIRE	Business License Annual/Renewal Inspection	-
FIRE	<b>SPRINKLER SYSTEM/COMMERCIAL HOOD/ALARM SYSTEM FEES (In House)</b>	
FIRE	Sprinkler System Plan Review	200.00 minimum
FIRE	1-20 Sprinkler Heads	200.00
FIRE	21-100 Sprinkler Heads	400.00
FIRE	101-200 Sprinkler Heads	600.00
FIRE	201-300 Sprinkler Heads	800.00
FIRE	301-500 Sprinkler Heads	1,000.00
FIRE	Over 500 Sprinkler Heads	1,000.00 plus \$1.00 per head over 500
FIRE	Sprinkler System First Inspection and Test	100.00
FIRE	Sprinkler System Re-inspections	40.00 each
FIRE	Fire Pump/Standpipe Inspection	200.00
FIRE	Commercial Hood Wet Chemical Plan Review	250.00 minimum
FIRE	1-15 Sprinkler Heads	250.00
FIRE	16-30 Sprinkler Heads	350.00
FIRE	31-50 Sprinkler Heads	500.00
FIRE	Over 50 Sprinkler Heads	500.00 plus \$8.00 per head over 500
FIRE	Commercial Hood Clean/Dry Chemical Plan Review	220.00 minimum
FIRE	1-50 lbs. Suppression Agent	220.00
FIRE	51-100 lbs. Suppression Agent	275.00
FIRE	101-200 lbs. Suppression Agent	300.00
FIRE	201-300 lbs. Suppression Agent	325.00
FIRE	301-400 lbs. Suppression Agent	350.00
FIRE	401-500 lbs. Suppression Agent	375.00
FIRE	501-750 lbs. Suppression Agent	450.00
FIRE	751-1000 lbs. Suppression Agent	525.00
FIRE	Over 1000 lbs. Suppression Agent	525.00 plus \$0.20 per lb. over 1000
FIRE	Commercial Hood Systems Initial Inspection and Test	100.00
FIRE	Commercial Hood Systems Re-Inspections	40.00 each
FIRE	Fire Alarm Plan Review	200.00 minimum
FIRE	1-25 Devices	200.00
FIRE	26-50 Devices	400.00
FIRE	51-75 Devices	600.00
FIRE	76-100 Devices	800.00
FIRE	101-125 Devices	1,000.00
FIRE	Over 125 Devices	1,000.00 plus \$5.00 per head over 125
FIRE	Fire Alarm Initial Inspection and Test	100.00
FIRE	Fire Alarm Re-Inspections	40.00 each
FIRE	<b>SPRINKLER SYSTEM/COMMERCIAL HOOD/ALARM SYSTEM FEES (Outside Consultant)</b>	
FIRE	Fire Department Administrative Fee	100.00
FIRE	Outside Consultant Plan Review	Fire suppression and fire alarm plans are reviewed by outside consultants. The actual cost for the review shall be paid at the time of application.
FIRE	<b>TENT/FESTIVAL PERMIT AND SITE PLAN REVIEW FEES</b>	
FIRE	Tent Site Plan Review and First Inspection	50.00

City of Hamtramck  
 Fee Schedule  
 July 1, 2020 - June 30, 2021

FIRE	Festival Site Plan Review and First Inspection	50.00
FIRE	<b>FIRE CODE VIOLATIONS</b>	
FIRE	Verbal Warning	-
FIRE	Warning Letter	-
FIRE	Misdemeanor Ticket	Up to 90 days in jail, 500.00 fine or any combination thereof
DEPT	CODE ENFORCEMENT	FEE IN DOLLARS
CODE	PROPERTY CLEAN UP	Cost plus 25%