**GENERAL**

No access to perform inspection. Please request a re-inspection when access to space can be provided. OMSC 107.2.2, ORSC 109.3

Provide Manufacturers Installation Instructions. No inspection made. ORSC R106.1.2, OMSC 304.1

PDF or link to Manufacturers Installation Instructions ok

Install appliance/equipment as per Listing and Installation Instructions. ORSC M1307.1, OMSC 304.1

Post Approved Plans on site for inspection. No inspection made. ORSC R106.5, OMSC 106.4.6

Install a level working space minimum 30” x 30” in front of the control side for service of appliance. ORSC M1305.1, OMSC 306.3

Support appliance ona level concrete slab or other approved materialextending a minimum 3” above adjacent grade. ORSC M1305.1.3.1, OMSC 304.10

Fuel-Fired appliances shall not be located in or obtain their combustion air from sleeping rooms, bathrooms, toilet rooms, storage closets or surgical rooms. ORSC G2406.2, OMSC 303.3

Appliances located in Attics and under floor shall have lighting at the unit controlled by a switch at the passageway opening. ORSC M1305.1.3.1, OMSC 306.4.1

Protect appliance from vehicle/mechanical impact. Install a Bollard or Wheel Stop. ORSC M1307.3.1, OMSC 304.7

Provide Combustion Air as per installation instructions and Mechanical Code minimum XXX. ORSC G2407.1, OMSC C304.1

Install a listed rated Fire-Stop Assembly at XXX penetration of rated construction. Provide installations instructions. OMSC 302.2, OSSC 714.1

Appliances that have an Ignition Source must be elevated such that the ignition source be located a minimum 18” above the garage floor. ORSC M1307.3, OMSC 304.3

Obtain Electrical permit for electrical work. The mechanical installation cannot be approved until a permit and inspection approval of the electrical connections and/or installations are approved. ORSC 109.1.2 & M1307.5, OMSC 107.2.1 & 301.7

Repair Over-Notched and over-bored framing at XXX. ORSC M1308.1, OMSC 302.1

Provide City approved Revised Plans for XXX. Request a re-inspection with approved revision on site. OSSC R106.4, OMSC 106.4.1

Seismically restrain mechanical system in accordance with the Building Code. OMSC 301.14 & OSSC 1613.1

No corrections have been made. See previous inspection report. Call for re-inspection when ready. OSSC 110.5 & 110.6, ORSC R109.3 & R109.4

A re-inspection fee of $80.00 will be assessed if all corrections are not completed by the next inspection. Call for a Reinspection when all corrections have been completed. OSSC 109.2 & 110.5 &110.6, ORSC R108.2 & R109.3 & R109.4

Habitable rooms shall be provided with heating facilities to maintain 68 degrees at a point 3’ above the floor and within 2’ of an exterior wall. ORSC R303.10

Heating and Cooling equipment and appliances shall be sized in accordance with ACCA Manual S.

ORSC M1401.3

**A/C’s**

Locate Outdoor Unit as per manufacturer’s installation instruction clearance requirements. ORSC R102.2 & M1307.1

32" tall unit outdoor unit is 36" above adjacent grade and projects across property line.  Not approved by City of Beaverton Planning Code

Isolate AC line-set from steel support straps. Galvanic Corrosion can occur due to dissimilar metals. 10 Mil tape OK. ORSC M1309.2, OMSC 305.2

Verify Isolation of AC line-set from steel support straps. Galvanic Corrosion can occur due to dissimilar metals. 10 Mil tape OK. ORSC M1309.2, OMSC 305.2

Insulate return refrigerant line(s) per manufacturer’s installation instructions and/or code. ORSC M1307.1, M1411.5, OEESC 503.2.8

All piping serving as part of heating or cooling equipment shall be thermally insulated per table 503.2.8 XXX. OEESC 503.2.8

Install AC outdoor unit on Level Pad that extends above the adjacent ground level 3 inches and/or as per installation instructions. May be placed on a concrete driveway, R/V pad or Patio slab. ORSC M1305.1.4.1 & M1413.1

SEAL around AC line-set at foundation vent and/or siding. ORSC R408.2 and/or ORSC N1104.8.2, OEESC 502.4.2

Support AC Lineset by a code approved method off grade. ORSC M1305.1.4.1, ORSC M1309.4 and OMSC 305

Support Mechanical System Piping to building construction in approved manner. ORSC M1309.3 & M1309.4, OMSC 305.3 & 305.4

Support Copper Linesets <1-1/4 inch at 6’ O.C. Horizontal, 10’ O.C. vertical. ORSC M1309.1, ORSC Table 1309.4, OMSC 305.1 AND OMSC Table 305.4

Install Locking-Type tamper-resistant refrigerant circuit Access Port Caps at outdoor unit or shall be otherwise secured to prevent unauthorized access. M1411.9 ORSC, 1101.7 OMSC

**CONDENSATE**

Directional changes in condensate drain piping shall be accomplished with approved fittings. OPSC 706.1

Condensate Drain line required to be minimum size of **¾”**. ORSC M1411.3.2, OMSC 307.2.2

Condensate Drain must Terminate in an approved location. ORSC M1411.3, OMSC 307.2.1

Install Support for Condensate line as per installation instructions and/or minimum code requirements for support. ORSC M1401.1, ORSC M1309.4, OMSC 305.4 (support is generally 4’ O.C. for PVC, 3’ O.C. for CPVC).

Condensate Drain shall maintain a horizontal slope to termination. Min. 1/8” per 12”. ORSC M1411.3, OMSC 307.2.1

Install Secondary Condensate drain from attic A/C coil. Secondary drain to terminate at conspicuous location or, auxiliary drain pan terminated to conspicuous location or, water level detection switch to shut off the equipment when failure of primary drain. ORSC M1411.3.1, OMSC 307.2.3

Protect condensate drain from freezing as per Manufacturers Installation Instructions. Note: Pipe insulation ok. ORSC M1307.1 & 1401.1, OMSC 304.1

Support Condensatedrain line. PVC- 4’ O.C. CPVC- 3’- O.C. ORSC Table M1309.4, OMSC Table 305.4

**APPLIANCE ACCESS**

Provide Appliance Access for inspection, repair, and replacement. ORSC M1305.1, OMSC 306.1

Provide appliance Access at Room minimum 24” wide door and large enough for removal of largest piece of equipment. ORSC M1305.1.2, OMSC 306.2 with exception

Provide appliance Access at Room Minimum 36” x 80” door and large enough for removal of largest piece of equipment. OMSC 306.2

Install Attic Access opening to appliance a minimum 22” x 30”. Passageway minimum 24” width. Maximum 20’ long. Continuous solid floor. ORSC M1305.1.3, OMSC 306.3

Install permanent approved means for ROOF ACCESS,i.e., ladder, catwalk. OMSC 306.5

**DUCTING**

Locate Ventilation Air Intake Openings 10’ from hazardous or noxious source or 3’ below source if not 10’ horizontal. OMSC 401.4

Clothes Dryer Duct size minimum 4”. Maximum length of exhaust duct shall not exceed 35’, subtract 2.5’ for each 45 degree elbow and 5’ for each 90 degree elbow. ORSC M1502.4, OMSC 504.6.4

Dryer Ducts shall be supported at four feet on center. ORSC M1502.4.2

Dryer Ducts shall be of rigid metal and have a Smooth Interior surface and joints running in direction of flow. ORSC M1502.4.1, OMSC 504.6.1 & 504.6.2.

Dryer Ducts shall not be obstructed and shall not have screens at their termination. ORSC M1502.3, OMSC 504.4

Remove Screws from dryer duct. ORSC M1502.4.2, OMSC 504.6.2

Floor Registers are not allowed in toilet and bathing room floors or upward extension of smooth, hard, nonabsorbent surface. OMSC 603.18.2

Insulate supply and return air ducts to minimum of R-8. Note: flame spread index not to exceed 25 and a Smoke index of 50. ORSC N1105.2, Table N1101.1 (1)

Install Deeply Buried Duct insulation depth indicator flags on R-8 insulated flexible ducts every 10’ for viewing of additional R-19 insulation at Final. ORSC N1105.3

Insulate supply and return air ducts to minimum of R5 in unconditioned spaces and when located outside the building R8. Note: flame spread index not to exceed 25 and a Smoke index of 50. OMSC 604.1 & 604.3, OEESC 503.2.7

Provide Make-up Air to clothes dryers installed in closets. ORSC M1502.7, OMSC 504.5

Material Exposed within Plenums shall have flame spread index not in excess of 25 and, a smoke developed index not more than 50. OMSC 602.2.1

Wiring located in plenums shall be labeled as Plenum Rated as per the Electrical Code. OMSC 602.2.1.1

Seal Duct Joints with approved sealant. ORSC M1601.4.1.1, OMSC 603.9

Install (3) Sheet Metal Screws, equally spaced, at joints when fastening ducts to ducts. ORSC M1601.4.2, OMSC 603.4.1

Support Supply and return air ducts min. 4” Off Grade. ORSC M1601.4.8, OMSC 603.14

Support Metal ducts at max. 10’ O.C. with ½ inch wide metal straps or 12 ga. Galv. Wire. ORSC M1601.4.4

Support Metal ducts at max. 12’ O.C. with ½ inch wide metal straps or 12 ga. Galv. Wire. OMSC 603.10 & SMACNA Standards

Support Flexible and other factory made ducts as per manufacturer (typical 6 “O.C. with 1-1/2” wide straps). ORSC M1601.4.4, OMSC 603.10

Support and re-route Flexible and other factory-made ducts at areas where duct is crushed by framing.  ORSC M1601.4.4, OMSC 603.10

Extend Minimum 26 gauge hard duct supply/return air through drywall membrane at garage wall and/or ceiling. OSRC M302.5.2

Install Deeply Buried Duct insulation depth indicator flags on top of R-8 insulated flexible ducts every 10’ for viewing of additional R-19 insulation at Final. ORSC N1105.3

Maximum length of duct connector is limited to 14’. ORSC M1301.1, M1307.1, OMSC 304.1 OMSC 603.6.2.1

**RESIDENTIAL VENTILATION**

Provide Make up Air system equal to exhaust rate when range hood exhaust rate exceeds 400 CFM. Make up Air system shall operate simultaneously with operation of the exhaust system and be provided with means of closure. ORSC M1503.5

Permitted gas line installation for **new** gas stove/cooktop requires Range Hood exhaust.  Add Range Hood to existing Mechanical Permit or obtain new permit.  Install Range Hood as per Mechanical Code and obtain inspection(s).  ORSC M1503.1

Install an exhaust fan in bathing and/or spa facility with minimum 80 CFM intermittent or 20 CFM continuous exhaust rate. ORSC M1507.3

Install 5” metal flex duct maximum 15’ length or 4” smooth hard duct with maximum length of 20’ when installing 80 CFM or greater bathing and/or spa facility exhaust fan. ORSC M1507.1.1 and Table M1507.4

Range hoods shall terminate to the exterior, be minimum 6” smooth interior surface duct and shall exhaust 150 CFM minimum. ORSC M1503.1, Tables 1506.2, 1507.4

Exhaust air from range hoods, bathroom fans, toilet room fans and bathing and spa rooms shall exhaust directly to the outside. ORSC M1505.2

Complete exhaust fans and ducts as per ORSC M1505

**VENTING**

Provide Combustion Air as per installation instructions and Mechanical Code minimum XXXX. ORSC G2407.1, OMSC C304.1

B-VENT horizontal distance Offsets on draft hood equipped appliances shall not exceed 75% of the vertical height of the vent. ORSC G2427.6.8.2, OMSC C503.6.9.2

Decorative Shrouds shall not be used at a B-vent termination unless specifically listed with the vent system. Please provide a copy of the listing or remove the shroud if not listed. ORSC G2427.6.3.1, OMSC C503.6.4.1

Locate Draft Hoods and Draft Regulators in same room/enclosure as the appliance served. ORSC G2427.12.5, OMSC C503.12.5

Garages are considered ‘UNCONDITIONED’ spaces for vent connector system requirements. Replace single wall vent connector with a listed type “B” vent system. ORSC G2427.10.2.2, OMSC C503.10.2.2.

When a High Efficiency Furnace (Category IV) is installed and its new non B-vent system is independent from the remaining B-vent serving the water heater, the remaining B-vent shall be made code compliant and properly sized to accommodate the remaining equipment. ORSC G2408.1 and/or ORSC G2427.6.8

Size ‘Orphaned’ Water Heater B-Vent to Code after installation of new Category IV Furnace installation. ORSC G2408.1 and/or ORSC G2427.6.8

Replace B-vent and double wall connectors if Inner Lining has been Penetrated. Max screw length= 1/4”. Note: Penetrating the inner lining voids listing. ORSC G2427.6.11, OMSC C503.6.13

Insulate Plastic Vent pipe as per installation instructions. ORSC M1307.1, OMSC C305.1

Install Insulation Shroud at attic/ B-vent penetration. Min.26 Gauge sheet metal and min. 2” above insulation and provide the clearance from the vent to the insulation per the installation instructions for clearance to combustibles. ORSC G2426.4; OMSC 802.8

Vent Systems shall be sized, installed, and terminated in accordance with the vent and appliance Manufacturers Installation Instructions and Section G2427. ORSC G 2426.5, ORSC G2427.6.3, G2427.6.8.3; OMSC C502.5, C503.6.4

Support all portions of Vents to adequately account for design and weight of materials and as per manufacturer’s installation instructions. ORSC 2427.6.9; OMSC C502.6; OMSC C 503.6.11

Protect Vent system from physical damage at XXX. ORSC G2426.7

Support Plastic Vent and combustion air piping as per installation instructions and/ or code where not specified in the installation instructions. ORSC M1307, M1309.4, G2427.4.1; OMSC C503.4.1

Support Plastic Vent and combustion air piping for gravity loading as per installation instructions and/ or code where not specified in the installation instructions. ORSC M1307, ORSC M1309.4, G2427.4.1; OMSC C503.4.1

Slope Vent connector ¼” unit in 12 units rise from appliance to chimney or vent. ORSC G2427.10.8, OMSC C503.10.7

B-Vents for vent systems that are 12” or less in size and located not less than 8 feet from a vertical wall or similar obstruction shall terminate above the roof in accordance with Figure 2427.6.3 of the ORSC. 12” above roof on a 6/12 roof pitch (see Figure G2427.6.3 ORSC for extensions on roof pitch that exceeds 6/12) ORSC G2427.6.3, OMSC C503.6.4

Direct Vent Termination shall be installed per their manufacturer’s installation instructions and Section G2427.8 item 3 ORSC. Vent terminations shall be located 12 inches from any air openings into a building where the appliance is over 50.000 Btu/h and 9 inches between 10,000 – 50,000 Btu/h, and 10,000 Btu/h and less 6 inches. ORSC G2426.3 & G2427.2.1.

B-Vent larger than 12” shall terminate 2’ above penetration and 10’ away from any portion of the building. ORSC G2427.6.3, OMSC C503.6.4

Terminate B-Vent 8’ from sidewall of house, at roof. ORSC G2427.6.3, OMSC C503.6.4

Terminate B-Vent min. 5’ above appliance. ORSC G2427.6.4, OMSC C503.6.5

Terminate B-Vent min. 3’ above and within 10’ horizontally of Forced Air Inlet. ORSC G2427.6.6, OMSC C503.6.7

Terminate Plastic Vent and combustion air piping as per installation instructions. ORSC G2426.5, G2427.4.1

Vent Connector shall not pass through any floor or ceiling. Relocate vent connector. ORSC G2427.7.6, OMSC C503.10.13

Vent Connectors shall not pass through walls or partitions unless listed and labeled for wall pass-through. ORSC 1803.3.1 (Solid Fuel) and See ORSC G2427.10.15, OMSC C503.10.13

Vent Connector max horizontal length is 75% of vent when single wall and 100% when double wall. ORSC G2427.10.9, OMSC C503.10.8

Uninsulated Single Wall Connector shall not be used outdoors or in unconditioned spaces (garages, attics, crawl spaces). ORSC G2427.7.2, ORSC G2427.10.2.2, OMSC C503.7.2 and OMSC C503.7.6

Provide 3” min. clearance to thermal insulation and/or 1 inch clearance from combustibles at B-Vent and shall extend 2 inches above the insulation materials. ORSC N1104.2.4; OMSC C502.4

Lolich Farms:

Install minimum 2" nipple and elbow with screen at Combustion Air intake at attic furnace.

See Installation Instructions Fig. 27

ORSC M1307.1, OMSC 304.1

Install SCREEN at combustion air pipe as per manufacturer's installation instructions.

ORSC M1307.1, OMSC 304.1

Support pipe and elbow and install screen at Combustion Air intake at attic furnace.

See Installation Instructions Fig. 27

ORSC M1307.1, OMSC 304.1

**GAS PIPING**

Gas pipe cannot cross property line from adjacent townhome. ORSC R302.2.3

Verify from natural gas supplier identification requirements of all piping with delivery pressure of 2PSI.

Install Anode less Riser

Only (1) flex connector permitted for each appliance. ORSC G2423.1.2.1

Reduce CSST pipe Bend Radius as per manufacturer’s installation instructions. ORSC M1307.1, OMSC C305.1, OMSC C404.1 and C404.2

Vent Pressure Regulators directly to outdoors. ORSC G2421.4, OMSC C410.4

Plastic Pipe shall NOT be installed within or Under any Building or Building Slab or be operated at pressures greater than 100 psi. See Exceptions. ORSC G2415.15, OMSC C404.17

Pressure Test not holding. Systems utilizing less than 14 inch water column shall hold min. 10 psi for 15 minutes with no perceptible drop in pressure. ORSC G2417.4.1, OMSC C406.4.1

Install Pressure Test. Systems utilizing less than 14 inch water column shall hold min. 10 psi for 15 minutes with no perceptible drop in pressure. ORSC G2417.4.1, OMSC C406.4.1

Pressure Test not holding. Systems utilizing welded piping and systems more than 14 inch water column shall hold min. 60 psi for 30 mins. ORSC G2417.4.1, OMSC C406.4.1

Permanently Identify gas pipe at meter bank as to address served. OMSC C401.7

Residential Protect CSST piping installed in framing members where less than 1.5” edge clearance with 1/16” steel shield plate min. 4” beyond penetration each side. ORSC G2415.5

Commercial Protect CSST piping installed in framing members where less than 1.5” edge clearance with 1/16” steel shield plate min. 4” beyond penetration each side. OMSC C404.7

Protect Piping at foundation penetration with sleeve and seal annular space. ORSC G2415.2 & G2415.4, OMSC C404.4 & C404.6

Protect hardpipe from corrosion at firebox masonry penetration . 10 mil tape ok.

ORSC M2415.9

Protect appliance connector or CSST at fireplace unit housing knockout. Sleeve or hard pipe ok. G2422.1.2.3

Protect appliance connector from physical damage. ORSC G2422.1.1

Protect CSST piping at top plate penetrations where less than 1 ½” from edge of framing. Must be shield plate that extends 4” past framing member. ORSC G2416.7.1

Support CSST piping as per manufacturer. ORSC G2424.1, OMSC C404.2 & C415.1

Support GAS PIPE at XXX O.C. ORSC Table G2424.1, OMSC Table C415.1

Support mechanical system piping to building construction in an approved manner. ORSC M1309.3 & M1309.4, OMSC 305.3 & 305.4

Install yellow insulated 18 AWG Tracer Wire with underground nonmetallic gas pipe. ORSC G2415.15.3, OMSC C404.17.3

Residential Underground Burial Depth shall be no less than 18 inches. ORSC G2415.10

Commercial Underground Burial Depth shall be no less than 12 inches. OMSC C404.12

Install a Sediment Trap in the proper orientation downstream of the appliance shutoff valve and before the pressure regulator and as close to the appliance as practical. ORSC G2420, OMSC C-408.4 (Figure C408.4)

Permitted gas line installation for new gas stove/cooktop requires Range Hood exhaust. Add Range Hood to existing Mechanical Permit or obtain new permit. Install Range Hood as per Mechanical Code and obtain inspection(s). ORSC M1503.1

Install required appliance shutoff valve in same room, within 6’ of appliance and with access.  ORSC G2420.5, OMSC C409.5.1

Shutoff valves for decorative appliances, room heaters and decorative appliances for installation into fireplaces shall be readily accessible, permanently identified, serve no other appliance and maybe installed in area remote from appliance.  ORSC G2420.5.2, OMSC C409.5.2

Bond Gas Pipe in accordance with the electrical code. ORSC G2411 & OESC 35-250.104.(B) & 310.1

Install furnace and complete vent system installation as per manufacturer’s installation instructions. Final piping and green tag approval only after requirements above and approved pressure test.

ORSC M1307.1, ORSC G2417.1.1.2, ORSC R109.1.5, ORSC R111.1

**FINAL**

**Obtain Electrical permit for electrical work**. The mechanical installation cannot be approved until a permit and inspection approval of the electrical connections and/or installations are approved. ORSC 109.1.2 & M1307.5, OMSC 107.2.1 & 301.7

Obtain Final Electrical approval. ORSC R109.1.5 & R109.1.6

Provide Combustion Air as per installation instructions and Mechanical Code minimum XXXX. ORSC G2407.1, OMSC C304.1

Install rubber grommet at gas hard pipe penetration at furnace case as per MII. ORSC M1307.1, R602.10, OSSC104.9

Install screw in tankless water heater plastic vent kit at collar as per MII. ORSC M1307.1, OMSC 304.1

Seal unused KOs at furnace case as per MII. R602.10, OSSC104.9

Direct crawlspace vent fan into foundation vent for exhaust directly to the outside.  ORSC M1505.2

Provide heating that will maintain indoor temperature at 68 degrees F, (3) feet above the floor. ORSC R303.9, OSSC 1203.1

Identify Area served by appliance. OMSC 304.12

Provide Performance Test Report indicating rate of exhaust airflow and makeup airflow. OMSC 507.16

Install Locking-Type tamper-resistant refrigerant circuit Access-Port Caps at outdoor unit or shall be otherwise secured to prevent unauthorized access. M1411.9 ORSC, 1101.7 OMSC

Install Dryer Duct Equivalent Length declaration tag within 6' of connection. OMSC M1502.4.5

Access and service space at XXX shall be provided. A level working space of 30 inches wide by 30 inches deep in front of the control side of appliance. ORSC M1305.1, OMSC 306

Install approved vehicle barrier at garage for protection of appliance located in normal vehicle path. ORSC M1307.3.1

Install a de-humidistat, timer, or other automatic control for the mechanical ventilation system in rooms that have bathing or spa facilities. ORSC M1505.6

HVAC systems 2000 CFM and over require smoke duct detectors installed in the return air system that will shut down the air distribution system upon activation. 606.2.1 OMSC

Connect smoke duct detector(s) to the fire alarm system or a horn/strobe as a supervisory signal at an approved location (constantly attended location). See 606.4.1

Permitted gas line installation for new gas stove/cooktop requires Range Hood exhaust. Add Range Hood to existing Mechanical Permit or obtain new permit. Install Range Hood as per Mechanical Code and obtain inspection(s). ORSC M1503.1

Install Carbon Monoxide Alarm(s) for new construction or when new carbon monoxide source is introduced or when Structural Permit has been obtained. Locate in each bedroom or within 15 feet outside of each bedroom door. Alarms may receive power from batteries or the building wiring system. Plug-in devices securely fastened to the structure and installed in accordance with the manufacturer’s installation instructions are deemed to satisfy this requirement. Hard wired and plug-in alarms are required to have battery backup. ORSC R315

Install Carbon monoxide alarms within 15 feet of all bedroom doors. Two alarms required when bedrooms on more than one level. May be battery operated, hard wired or securely fastened in place plug-in style. Combination smoke/carbon monoxide alarms shall be hard wired with battery backup. ORSC R315

Combination smoke/carbon monoxide alarms shall be listed as complying with UL2034 and 217. ORSC R315.3.3

 Install grommet at hardpipe connection into furnace cabinet.  ORSC M1307.1

**FINAL CONTINUED**

Install Flashing and Counterflashing at roof penetrations when installing B-Vents, Plastic Vents, AC Linesets and Electrical Conduit.  ORSC R903.2, OSSC 1503.2

**FIRE DAMPERS**

Install permanent Fire Damper Access Location Identification label minimum 0.5 inch in height, reading: FIRE/SMOKE DAMPER, SMOKE DAMPER or FIRE DAMPER. OMSC 607.4

Connect Smoke Duct Detector to fire alarm system or supervisory signal at approved location. OMSC 606.4.1

Install Fire and Smoke Dampers as per approved plans, Manufacturers Installation Instructions, listing. OMSC 607.2

Install Fire and Smoke Damper Access large enough for damper inspection and maintenance. OMSC 607.4

Locate Smoke Duct Detector at return air duct/plenum upstream from filters, exhaust or outside air connections and decontamination appliances. OMSC 606.2 & 606.2.1

Smoke Duct Detector shall Shutdown air distribution system. OMSC 606.4

Smoke/fire dampers shall Actuate upon activation of a listed smoke detector(s) in accordance with section 907.3.1 of the OSSC and one of the following methods: A detector intertied with the smoke damper shall be within 5 ft of the damper without any air inlets or outlets between the detector and the damper; or tied into a fire alarm system of the building where a total coverage smoke detector system is provided throughout the building. 717.3.3.2 OSSC

**COMMERCIAL KITCHEN HOOD & DUCT**

Actuation of the fire suppression system shall Automatically Shutdown the fuel and electrical power supply to cooking appliances under the hood. Reset shall be manual. OMSC 509.4

Type 1 hood Clearance to Combustibles not less than 18” with reduction to 3” for 1 hour rated construction. OMSC 507.9

Install additional Cleanouts on horizontal section(s) of grease duct at a Maximum 20’ O.C. and with 10’ of direction changes more than 45 degrees. OMSC 506.3.9

Install Gasket at grease duct to exhaust fan connections that have a temperature duty of no less than 1500 degrees. OMSC 506.3.2.3

Grease Ducts shall be constructed of 16 gage steel or 18 gage stainless steel. OMSC 506.3.1.1

Grease Duct Termination minimum 40” above roof surface and 10’ horizontally from same, contiguous, adjacent buildings and air intake. Exception: Reduced to 5’ when exhaust outlet directed away from above items. OMSC 506.3.13

Up-Blast Fans Shall Be Hinged and supplied with flexible weatherproof electrical cable to permit inspection and cleaning. The ductwork shall extend a minimum of 18 inches above the roof surface. 506.5.3 OMSC

Mechanical makeup air systems shall be automatically controlled to start and operate simultaneously with the exhaust system. OMSC 508.1

Install fire suppression system Manual Pull 42”-48” above the floor with a max force required to pull of 40 pounds and max movement of 14”. Locate min. 10’ and max. 20’from exhaust system at or near means of egress. OMSC 509.3

Provide Performance Test Report indicating rate of exhaust airflow and makeup airflow. OMSC 507.16

Light Test shall be performed by passing a lamp with not less than 100 watt lamp through the entire ductwork to be test. OMSC 506.3.2.5

Seal All Joints and seams by continuous internal or external liquid-tight welding or brazing. OMSC 506.3.2.2, OMSC 507.7

Type 1 Hoods shall be constructed of 18 gage steel or 20 gage stainless steel. OMSC 507.4

Type 1 Hood shall be Solidly Flashed with 18 gage steel or 20 gage stainless steel or rated construction to ceiling and wall when less than 12”. OMSC 507.9

Provide a Drain Outlet at the low point of the fan housing for the type I hood with an approved grease reservoir. 506.5.2 OMSC

**REFRIGERATION**

Install machinery roomACCESS SIGN at door allowing “authorized personnel only”. OMSC 1105.1

Provide BRAZINGand/orWELDING CERTIFICATION for refrigerant piping. Division approved certifying organization classes are: (a) Section IX, Welding and Brazing Qualifications of the American Society of Mechanical Engineers publication, 2001 ASME Boiler and Pressure Vessel Code; or (b) American Welding Society publication AWS B2.2-91, Standard for Brazing Procedure and Performance Qualification. OAR918-440-0015

The machinery room refrigerant Leak Detector shall provide both a visual and audible alarm. OMSC 1105.3

Pressure Test premises constructed refrigeration system as per OMSC 1108.1 and ASHRAE 15.

Refrigerant machinery room shall have Self-Closing, Weather-Stripped Door opening in the direction of egress. OMSC 1105.2

Install mechanical Ventilation for machinery room Discharged to the outdoors min. 20’ from property line and building openings. OMSC 1105.6.1

Install Locking-Type tamper-resistant refrigerant circuit Access-Port Caps at outdoor unit or shall be otherwise secured to prevent unauthorized access. M1411.6 ORSC, 1101.7 OMSC