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AN ORDINANCE AMENDING TITLE 5, CHAPTER 6 OF THE VILLAGE CODE TO ADOPT THE 2015 INTERNATIONAL MECHANICAL CODE, WITH AMENDMENTS, AS THE MECHANICAL CODE OF THE VILLAGE OF ORLAND PARK

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WHEREAS, the Village of Orland Park is authorized by the Illinois Municipal Code to adopt codes and regulations by reference pursuant to 65 ILCS 5/1-3-2; and

WHEREAS, the Village has previously adopted the 2012 International Mechanical Code with certain deletions and amendments; and

WHEREAS, a copy of the 2015 International Mechanical Code has been on file with the Office of the Clerk of the Village for at least thirty (30) days and during that time has been available for public use, inspection and examination; and

WHEREAS, the Capital Development Board has been notified of the Village's intent to adopt this new code at least thirty (30) days prior to its adoption, as required by the Illinois Municipal Code, 65 ILCS 5/1-2-3.1; and

WHEREAS, the Corporate Authorities of the Village have determined that it is in the best interests of the Village and its residents to adopt the 2015 International Mechanical Code as the Mechanical Code of the Village, with certain deletions and amendments; and

NOW, THEREFORE, Be It Ordained by the President and Board of Trustees of the Village of Orland Park, Cook and Will Counties, Illinois, an Illinois home rule municipality, as follows:

SECTION 1

Chapter 6 "Mechanical Code," of Title 5 "Building," of the Village Code of the Village of Orland Park is hereby amended to read in its entirety as follows:

TITLE 5, CHAPTER 6

5-6-1: Adoption

5-6-2: Deletions

5-6-3: Amendments

5-6-1: ADOPTION:

ADOPTION: A certain document entitled "The International Mechanical Code/2015 edition, First Printing, 2014 as published by the International Code Council, 4051 West Flossmoor Road, Country Club Hills, Illinois, be and hereby is adopted as the "Mechanical Code" for the Village of Orland Park, for regulating the design,

construction, quality of materials, erection, installation, alteration, repair, location, relocation, replacement, addition to, use or maintenance of mechanical systems in the Village of Orland Park as provided; and each and all of the regulations, provisions, penalties, conditions and terms of said "International Mechanical Code/2015" are adopted and made a part hereof, as if fully set out in this Code with the additions, insertions, deletions and changes prescribed in this Chapter.

A copy of the rules and regulations of the "International Mechanical Code/2015" printed in book form was on file in the office of the Village Clerk for more than thirty (30) days prior to the enactment of this Code, and has been and is available for inspection. Reference in this Chapter to "this Code" is a reference to the "International Mechanical Code/2015" and such reference includes that document and any amendments, or supplements thereto whether adopted concurrently or subsequently. References in this Code to "the mechanical code" shall mean the Village's Mechanical Code as set forth in Chapter 6 of this Title 5, as may be amended from time to time.

5-6-2: DELETIONS

5-6-3: AMENDMENTS:

The following Sections and Subsections are amended in the following respects:

CHAPTER 1 – SCOPE AND ADMINISTRATION

1. Section 101.1 shall be amended to read as follows:

101.1 TITLE: These regulations shall be known as the Mechanical Code of Orland Park, Illinois, hereinafter referred to as "this code."

2. Section 106.5.2 shall be amended to read as follows:

106.5.2 FEE SCHEDULE: The fees for mechanical work shall be as indicated in Title 5 chapter 2 of the Village Code.

3. Section 106.5.3 shall be amended to read as follows:

106.5.3 FEE REFUNDS: The code official shall authorize the refunding of fees as follows.

1. The full amount of any fee paid hereunder which was erroneously paid or collected.
2. Not more than seventy-five (75%) percent of the permit fee paid when no work has been done under a permit issued in accordance with this code.
3. Plan reviews completed shall be charged the full fee designated in Title 5 Chapter 2 of the Village Code for work that has been canceled.

The code official shall not authorize the refunding of any fee paid, except upon written application filed by the original permittee not later than 180 days after the date of fee payment.

4. Section 108.4 shall be amended to read as follows:

108.4 VIOLATION PENALTIES: Persons who shall violate a provision of this code or shall fail to comply with any of the requirements thereof or who shall erect, install, alter or repair mechanical work in violation of the approved construction documents or directive of the code official, or of a permit or certificate issued under the provisions of this code, shall be guilty of a Village Code offense, punishable by a fine of not more as specified in the Village Code. Each day that a violation continues after due notice has been served shall be deemed a separate offense. Mechanical work started or completed without first obtaining a mechanical permit shall be charged double the normal permit fees referenced in Title 5 Chapter 2 of the Village Code.

5. Section 109.2 shall be amended to read as follows:

109.2 MEANS OF APPEAL AND MEMBERSHIP: The board of appeals shall consist of the Board of Village Trustees. The Building Official and consulting architects and/or engineers shall advise the Board of Trustees on appeals to the Mechanical Code.

6. Section 109.3 shall be amended to read as follows:

109.3 NOTICE OF MEETING: The Village Development Services Committee and Board of Trustees shall meet on periodic monthly schedules for the review of appeals upon notification from Building Code Official.

CHAPTER 2 – DEFINITIONS:

7. Section 202 shall add or change the following definitions to read as follows:

BUILDING OFFICIAL: The Building Official appointed by the Development Services Department Director shall interpret the Mechanical Code provisions, for the application of this code.

CHAPTER 3 GENERAL REGULATIONS

8. Section 303.9 is added to Section 303 and shall read as follows:

303.9 EXISTING AND ABANDONED EQUIPMENT: Any HVAC equipment including process cooling equipment not being used shall be removed including all ducts, hoods, flues, piping, electrical and miscellaneous supports.

9. Section 304.13 is added to Section 304 and shall read as follows:

304.13 MINIMUM REQUIREMENTS FOR COOLING EQUIPMENT: All HVAC systems shall be equipped with an evaporator coil, refrigeration line sets, and electrical disconnect required for the installation of an exterior condensing unit. Line sets shall extend to exterior of building and be capped as required. Stop valves shall be installed per IMC section 1107.8. System does not have to be charged with approved refrigerants.

10. Section 306.5 shall be amended to read as follows:

306.5 ELEVATED ACCESS AND SERVICE SPACE: Where equipment requiring access and appliances are installed on roofs or elevated structures at a height exceeding ten (10) feet, such access shall be provided by a permanent approved means of access. Equipment located on a roof shall be through the interior of the building using a roof hatch opening having a permanent ladder access as referenced below. The means of access shall be from grade or floor level to the equipment and appliances' level service space. Such access shall not require climbing over obstructions greater than thirty (30) inches (762 mm) high or walking on roofs having a slope greater than four units vertical in twelve (12) units horizontal (33-percent slope). Where access involves climbing over parapet walls, the height shall be measured to the top of the parapet wall. Permanent ladders installed to provide the required access shall comply with the following minimum design criteria:

1. The side railing shall extend above the parapet or roof edge not less than thirty (30) inches (762 mm). Exception: interior ladders using a roof hatch.
2. Ladders shall have rung spacing not to exceed fourteen (14) inches (356 mm) on center.
3. Ladders shall have a toe spacing not less than six (6) inches (152 mm) deep.
4. There shall be a minimum of eighteen (18) inches (457 mm) between rails.
5. Rungs shall have a minimum 0.75-inch (19 mm) diameter and be capable of withstanding a 300-pound (136.1kg) load.
6. Ladders over thirty (30) feet (9144 mm) in height shall be provided with offset sections and landings capable of withstanding 100 pounds per square foot (488.2 kg/m²). Landing dimensions shall be not less than eighteen (18) inches (457mm) and not less than the width of the ladder served. A guard rail shall be provided on all open sides of the landing.
7. Ladders shall be protected against corrosion by approved means. Catwalks installed to provide the required access shall be not less than twenty-four (24) inches (610 mm) wide and shall have railings as required for service platforms.
8. Landings required. Ladders shall be provided with a clear and unobstructed bottom landing area having a minimum dimension of thirty (30) inches centered in front of the ladder.

EXCEPTION: This section shall not apply to Group R-3 occupancies.

11. Section 307.2.1 shall be amended to read as follows:

307.2.1 CONDENSATE DISPOSAL: Condensate from all cooling coils and evaporators shall be conveyed from the drain pan outlet to an approved place of disposal. Such piping shall maintain a minimum horizontal slope in the direction of discharge of not less than one-eighth unit vertical in twelve (12) units horizontal (1-percent slope). Condensate

shall not discharge into a street, alley or other areas so as to cause a nuisance. The use of a condensate pump shall be prohibited unless the means of drainage by minimum slopes cannot be achieved due to existing conditions.

CHAPTER 4 – VENTILATION:

12. Section 403.1.1 shall be amended to read as follows:

403.1.1 SMOKING ROOMS OR LOUNGES: Table 403.3 references ventilation rates for smoking areas under the headings for “Education”, Public spaces” and “Retail stores”. Smoking is not permitted in public places as referenced in the Village Code (6-2-2-12) and shall take precedence. In building uses where smoking is permitted, the ventilation rate used for “Smoking lounges” under the heading of “Education” in Table 403.3, shall be used for design.

13. Section 403.4 and 403.5 are added to Section 403 and shall read as follows:

403.4 RETURN AIR FROM OCCUPIED SPACES (COMMERCIAL): A ducted return grille/register or a transfer grille/register shall be in all occupied rooms and spaces with ducted supply cfm quantities. Air shall be returned via a ducted sheet metal return grille or through a sheet metal ceiling or open wall grille to a room with a ducted return of adequate size. Transfer return grille shall be located minimum 7’- 0” above finished floor or by a ducted transfer grilles located in ceiling.

403.5: RETURN AIR FROM HABITABLE SPACES (RESIDENTIAL - SINGLE AND MULTIPLE FAMILY): A ducted return grille/register shall be in all occupied rooms and spaces with ducted supply cfm quantities. Transfer grilles shall be permitted for alterations per building officials approval. Center of transfer grilles shall be min. 7’- 0” above finished floor.

CHAPTER 5 - EXHAUST SYSTEMS:

14. Section 506.3.1.2 is added to Section 506.3.1 and shall read as follows:

506.3.1.2 TYPE 2 HOOD DUCT MATERIALS: Type 2 heat removal hood duct materials shall match the minimum gauge sheet metal as the Type 2 hood based on materials specified in IMC section 507.5

CHAPTER 6 – DUCT SYSTEMS:

15. Section 603.5 is amended to read as follows:

603.5 NONMETALLIC DUCTS: Nonmetallic ducts shall be constructed with Class 0 or Class 1 duct material and shall comply with UL 181. Fibrous duct construction shall conform to the SMACNA Fibrous Glass Duct Construction Standards or NAIMA Fibrous Glass Duct Construction Standards. The air temperature within

nonmetallic ducts shall not exceed 250°F (121°C). Nonmetallic ducts shall not be used in a non-combustible plenum.

16. Section 603.5.1 shall be amended to read as follows:

603.5.1 GYPSUM DUCTS: Building cavities shall not be used as ducts or plenums. See adopted International Energy Conservation Code, (R-403.2.3).

17. Section 603.6.2.1 shall be amended to read as follows:

603.6.2.1 CONNECTOR LENGTH: Flexible air connectors shall be a maximum length of 7 feet, 0 inches (2133.5 mm)”

CHAPTER 7 - COMBUSTION AIR:

18. Section 702.1 shall be amended to read as follows:

702.1 COMBUSTION AIR: Factory built or masonry fireplaces shall be provided with an adequate amount of exterior air (combustion air) as referenced in the Building Code, the Fuel Gas Code and the Energy Conservation Code as shown in Chapter 15 (Referenced Standards).

CHAPTER 8 - CHIMINEYS AND VENTS:

19. Section 801.18.4 and its subsection shall be amended to read as follows:

801.18.4 CLEARANCES: Any portion of a masonry chimney located within the exterior wall of the building shall have a minimum airspace clearance to combustibles of two (2) inches. Chimneys located entirely outside the exterior walls of the building, including chimneys that pass through the soffit or cornice, shall have a minimum airspace clearance of one (1) inch. The airspace shall not be filled except to provide fire stopping as approved by the Code Official. Clearances shall be provided in accordance with the International Building Code.

EXCEPTION: Masonry chimneys without the required airspace clearances shall be permitted to be used if lined or relined with a chimney lining system listed for use in chimneys with reduced clearances in accordance with UL 1777. The chimney clearance shall be not less than permitted by the terms of the chimney liner listing and the manufacturer's instructions.

801.18.4.1 FIRE BLOCKING. Noncombustible fire blocking shall be provided in accordance with the International Building Code.

20. Section 802.1.1 shall be amended to read as follows:

802.1.1 FUEL GAS VENTS: Fuel Gas appliances shall be vented to meet the

requirement of the 2015 ICC “International Fuel Gas Code” as referenced in Chapter 15 of this code.

21. Section 1209.5.1 shall be amended to add the following exception:

EXCEPTION: Heated slabs placed on ground located twenty-four inches (24”) or more below finished established grade shall be required to be insulated along perimeter only with min. R-5 insulation extending horizontally for twenty-four inches (24”) under slab.

CHAPTERS 9, 10, 11, 13, 14, 15

NO CURRENT VILLAGE AMENDMENTS

SECTION 2

All ordinances or parts of ordinances in conflict with the provisions of this Ordinance are hereby repealed insofar as they conflict herewith.

SECTION 3

This Ordinance shall be in full force and effect from and after its passage, approval and publication as required by law.