Chapter 12

HVAC

Heating, Ventilation, and Air Conditioning, and other Mechanical Equipment

Heating, ventilation, and air conditioning (HVAC) and other mechanical equipment are integral features of modern life and New York City buildings. These elements must be installed in compliance with building codes, energy codes, and health and safety standards, which evolve over time as codes and standards advance and occupant needs change. LPC staff can approve equipment installed and upgraded in ways that have little to no effect on a historic facade. These installation methods serve as the basis for LPC’s rules for the installation of HVAC and mechanical equipment (see LPC Rules, Section 2-21, available on our website, www.nyc.gov/landmarks).
In This Chapter, You Will Find:

1. This chapter explains LPC’s rules for installation of HVAC and other mechanical equipment. Our goal is to help you submit a fully completed permit application for work that conforms to the rules so you can get your permit more quickly.

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| How to Construct a Mock-Up | 12.20 |
Before applying for your permit, you should:

Find Information about Your Building

This will help you determine how the LPC Rules apply.

What type of building is it?
Search for your building on the Discover NYC Landmarks map to determine how the LPC Rules apply to your specific building type.

What did your building look like?
Find historic tax photos from the 1940s and 1980s, available through the NYC Department of Records & Information Services’ NYC Municipal Archives Collections.

How big is the building?
Verify height and street frontage since requirements for HVAC installations at primary facades depend on the size of the building. See Section B, Installing Through-Window and Through-Wall HVAC Equipment at Primary Facades.

See If Your Work Requires an LPC Permit

Maybe you don’t need a permit. LPC requires a permit for installing most types of HVAC and mechanical equipment, but a permit is not required for:

Non-permanent installations that require only raising, lowering, or opening a window sash.

Glazed or solid panels installed along with the AC unit to fill the remainder of the opening. They should be painted to match the window frame (if solid). Support brackets must fasten to the window frame or the interior, and brace against the exterior wall without mechanical attachments.

Unsure whether your work requires a permit? Contact LPC at 212-669-7817 or info@lpc.nyc.gov.

Consider Establishing a Master Plan

If you plan to install HVAC and other mechanical equipment over time, apply for a master plan. A master plan provides the opportunity to incrementally perform work as finances and vacancies permit. Once you have a master plan, future applications can be quickly reviewed since specific work standards will be established and approved in the initial permit. This type of permit generally does not expire. See Section C for more information.
What You Will Need

A complete application typically requires the materials listed below, but additional materials may be required depending on the type of work. See Section B for a list of all materials required for your work type.

**Basic Application Materials**

- **An LPC Permit Application Form**, filled out and signed by the property owner.
- **Color photos** of the entire building and close-ups of locations of where the work is occurring for context.
- **Comparative drawings:**
  - Elevation of existing conditions and proposed HVAC or mechanical equipment installations
  - Floor and/or site plans of existing conditions and locations of proposed HVAC or mechanical equipment installations
  - Section of existing conditions and proposed HVAC or mechanical equipment installations at windows, facades, and storefronts only
- **Color specifications/paint cards** at visible facades, roofs, and yards only.
- **Two sets of Department of Buildings (DOB) filing drawings** if proposed work requires a DOB permit.
The LPC Rules establish criteria that allow staff to review and approve proposals for certain types of work at landmark properties. Permit applications for work that meets the LPC Rules can be approved faster. If the work does not meet the rules, staff may suggest alternatives that do meet the rules – or your proposal may be presented to the LPC Commissioners for review at a public hearing. Staff can guide you through this process. Visit www.nyc.gov/landmarks for more information.

This section explains and illustrates the rules and criteria for the most common types of work involving HVAC and mechanical equipment, including through-window, through-wall, and wall-mounted installations. See LPC Rules, Section 2-21, for more information.
**General Criteria**

Staff can approve the installation of HVAC and other mechanical equipment if it meets the following general criteria. Certain types of installations may have additional requirements. See criteria by work type for more information.

**The installation does not damage or remove significant architectural features.**

**The installation is not visible, if possible.** Make every effort to place equipment in a non-visible location unless no feasible alternative exists. Staff may request evidence or option studies to help determine where equipment can or must be placed.

**The installation cannot occur at a special window.** See Chapter 2 for information on special windows.

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**Installing Through-Window HVAC Equipment**

Staff can only approve permanent installations of HVAC equipment, louvers, and vents in window openings on certain types of buildings.

### Small Buildings

If the building is classified as a small building (see Glossary in Section C), staff cannot approve installation of through-window HVAC equipment. Staff may suggest alternatives – or your proposal may be presented to the full Commission for review at a public hearing.

### Large Buildings

If the building is classified as a large building (see Glossary in Section C), staff can approve permanent installation of through-window HVAC equipment if window openings meet the following criteria.

**Required Application Materials**

- **Photos** of building facades.
- **Photos** of windows where installations are planned.
- **Existing and proposed annotated floor plans or elevations** showing location of windows where installations are planned, including building height and street frontage dimensions at primary facades only.
- **Comparative window elevations** showing existing and proposed conditions for each installation.
- **Comparative vertical section drawings** showing existing and proposed conditions of the louvers installed within the window sash or frame.
- **Color samples** to match the window frame at visible facades only.

If LPC requires additional materials after your application is reviewed, you will receive a Materials Checklist from LPC staff.

**Removal**

The installation must retain the window frame and only involve removal of glazing, or modifying...
or removing one double-hung sash or one portion of a casement window assembly.

A new window can be installed in conjunction with HVAC equipment, subject to requirements for window replacement as described above and in Chapter 2.

**Design and Installation**

The exterior HVAC louver must be mounted flush with or behind the plane of the window frame and behind brick mold or panning.

If the window air conditioning unit projects, it must be mounted within the window frame.

In either case, if the exterior louver or window unit only fills a part of the window frame, the remainder of the sash can be filled with a filler panel (glazed or solid) or partial-height window sash to match the overall window configuration.

**Finish**

The exterior louver and any solid filler panel must be finished to match the window frame. A projecting window unit does not need to be painted.

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**Installing Through-Window HVAC Equipment at Secondary Facades**

Staff can approve HVAC and mechanical installations on secondary facades if they meet the following criteria:

**Design and Installation**

The installation must occur within an existing window opening, either as an exterior louver, projecting window unit, or small vent with a flush or minimally projecting cap and filler panel, set back from the plane of the facade to approximate the window depth.

The installation may occur at the same time as a new window is installed.

**Finish**

At visible secondary facades, the installation involves an exterior louver or small vent with a flush or minimally projecting cap, the louver, vent, cap, and solid filler panel must be finished to match the window frame.

If the installation is at a visible secondary facade only part of the full height of the sash being removed, the remainder must be filled with a filler panel (glazed or solid) or partial height window sash that matches (size permitting) the overall window configuration. For more information, see Chapter 2.

**Installations at non-visible secondary facades** do not need to be painted.
Installing Through-Wall HVAC Equipment

Installing Through-Wall HVAC Equipment at Primary Facades

Staff can only approve permanent installations of HVAC equipment, louvers, and vents through the wall on certain types of buildings.

Small Buildings
If the building is classified as a small building (see Glossary in Section C), a manufacturing or loft building, or an individual landmark, staff cannot approve installation of through-wall HVAC equipment. Staff may suggest alternatives or your proposal may be presented to the full Commission for review at a public hearing. See Section A to verify whether the building is considered a small building according to LPC Rules.

Large Buildings
If the building is classified as a large building (see Glossary in Section C), staff can approve permanent installation of through-wall HVAC equipment if it meets the following criteria. See Section A to verify whether the building is considered a large building according to LPC Rules.

Location
The location of the new installation must match the regular pattern of installations at the building or the installation should be centered beneath the window opening. If there is no pattern or it is not possible to adhere to an existing pattern, the location can form the basis for a new pattern that does not detract from the facade or adjacent buildings.

If the window opening is wide enough to accommodate two or more windows, placement must match the predominant existing pattern of through-wall installations, which can be centered beneath the opening or to one side.

The installation must not occur through decorative masonry such as corbelled or patterned brickwork.

Design and Installation
Through-wall HVAC equipment must be mounted as flush as possible with surrounding masonry, typically no more than 1/2 inch beyond the plane of the facade. This type of installation is typically achieved with a rimless type architectural louver with flat metal blades.

Finish
The louver must be finished to match surrounding masonry.

Required Application Materials

- Photos of building facades.
- Photos of the specific wall areas where installations will occur.
- Existing and proposed annotated floor plans or elevations showing the location where installations will occur, including building height and street frontage dimensions at primary facades only.
- Comparative elevation for each installation showing existing and proposed conditions, including alignment of the louver to the associated window, if any.
- Comparative vertical section drawings showing existing conditions and proposed louvers, installed flush with the wall or minimally projecting.
- Manufacturer cut sheets of the louver or vent.
- Color samples to match the surrounding masonry

If LPC requires additional materials after your application is reviewed, you will receive a Materials Checklist from LPC staff.
New louver installations should follow the existing pattern of louver installations or may establish a new pattern if necessary.

Through-wall HVAC installations should not be installed at decorative masonry (at left), but may be installed at plain masonry (at right).

New installations should match an established regular pattern of through-wall HVAC installations.
A section drawing of a through-wall HVAC installation with a flush-mounted architectural louver. The louver must be finished to match the surrounding masonry.

A typical elevation drawing of a through-wall HVAC installation centered below a window opening.
Installing Through-Wall HVAC Equipment at Secondary Facades

Staff can approve through-wall HVAC and mechanical installations at secondary facades if they meet the following criteria:

**Location**
At visible secondary facades, if the vent or louver exceeds 144 square inches in surface area, it must be centered beneath or above a window opening.

If the vent or louver is 144 square inches or less in surface area, it must be below, above, or to the side of a window opening.

**Design and Installation**
At visible and non-visible secondary facades, if the louver is 144 square inches or less in surface area, a minimally projecting cap may be installed.

Louvers that exceed 144 square inches in surface area are only permitted through a masonry facade. The exterior louver must be mounted as flush as possible with the exterior wall or facade cladding, and with the minimum feasible projection.

At secondary facades without windows, the unit must be installed in a uniform pattern. Variations from the predominant existing pattern may be permitted if interior space does not permit installation that conforms with the pattern.

**Finish**
At visible secondary facades, the exterior louver must be finished in a manner that approximates the color of the surrounding facade cladding.

At non-visible secondary facades, the installation does not need to be painted.
Installing Wall-Mounted HVAC

Installing Wall-Mounted HVAC at Primary Facades

Staff cannot approve wall-mounted HVAC equipment at primary facades on any building. These installations must be reviewed by the full Commission at a public hearing.

Installing Wall-Mounted HVAC at Secondary Facades

Staff can approve wall-mounted HVAC installations if they meet the following criteria:

Location
Wall-mounted HVAC can be **no more than minimally visible from a public thoroughfare**. See *Section C* for more information on minimal visibility.

Wall-mounted flues or ducts **can be minimally visible from a public thoroughfare**, or more than minimally visible if required by building, fire, or health codes.

If the duct or flue is more than minimally visible, it must be **located in the least visible location**, not disrupt the composition of the facade, and not extend higher than required.

Design and Installation
Any attachments, such as associated platforms, brackets, and straps, must be **reversible**, if possible, and minimize damage to the historic building. If penetrations through the facade are required for conduits or ducts, they must be as small as possible to conform with the manufacturer’s recommended dimensions.

Finish
At visible secondary facades, HVAC and other mechanical equipment, flues, and ducts, plus associated platforms, brackets, and straps, must have a finish that matches the color of the underlying material or is neutral and does not call attention to itself.

Required Application Materials

- Photos of building facades.
- Photos of specific wall areas where installations will occur.
- Existing and proposed annotated floor plans or elevations showing location of proposed installations.
- Comparative elevations showing existing and proposed conditions for each installation.
- Comparative vertical section drawings of existing and proposed HVAC equipment or flue, showing attachment to the wall, including platforms and brackets.
- Manufacturer cut sheets of HVAC equipment.
- Color samples to match or harmonize with the surrounding masonry or wall cladding at visible facades only.

*If LPC requires additional materials after your application is reviewed, you will receive a Materials Checklist from LPC staff.*
Wall-mounted flues at a secondary facade, as required by code. The flues have been finished to match the underlying material.

A section drawing showing the attachment of a platform and brackets for a wall-mounted HVAC unit utilizing existing mortar joints.
Installing HVAC Equipment in Storefronts

Staff can approve storefront HVAC installation if it meets the following criteria:

**Removal**
The installation must only involve removing glazing, or modifying or removing the transom window sash and retaining the storefront or door frame.

**Transom Installation**
The exterior louver must be mounted flush with or behind the plane of the transom window frame and behind brick mold or panning.

If the exterior louver replaces only part of the transom window sash being removed, the remainder of the space must be filled with a flat panel (glazed or solid) or partial height transom window sash that matches the finish and configuration (size permitting) of the overall transom window.

At recessed storefront entrances only, the window unit (projecting or flush) can be mounted within the transom window frame.

**Bulkhead Installation**
At a non-historic storefront bulkhead, a rimless architectural louver can be integrated into the design of the bulkhead and installed as flush as possible.

*If installation involves installing the exterior louver and a new storefront or door at the same time, the resulting installation must comply with criteria in this section and Chapter 3 (Storefronts) as well.*

**Finish**
The exterior louver and any solid filler panel must be finished to match the storefront window frame or bulkhead. At a recessed storefront, the projecting window unit does not need to be painted.

The glazing at one of these transom windows has been replaced with a flush-mounted louver, finished to match the transom window frames.

Louvers can be integrated into the design of a non-historic storefront bulkhead.

### Required Application Materials

- Photos of building facades.
- Photos of storefronts where installations will occur.
- Existing and proposed annotated floor plans or elevations showing the location of storefront windows where installations will occur.
- Comparative storefront window elevations showing existing and proposed conditions.
- Comparative vertical section drawings showing existing conditions and proposed louver installed within the storefront window.
- Color samples to match the storefront at visible facades only.

*If LPC requires additional materials after your application is reviewed, you will receive a Materials Checklist from LPC staff.*
Installing Rooftop HVAC or Other Mechanical Equipment

Staff can approve rooftop HVAC or other mechanical installations if they meet the following criteria:

Staff may approve a minimally visible installation if it is not possible to make the installation non-visible, and visibility is not caused by equipment being placed on a Commission-approved addition. See Section C for more information on minimal visibility.

If an existing grandfathered or Commission-approved installation is being replaced, staff can approve work that slightly increases visibility over a primary facade if the increase is required by building or fire codes and there is no feasible alternative.

Otherwise, a grandfathered or Commission-approved installation can be replaced with matching or smaller units, even if it is more than minimally visible, provided that no other location would be less visible.

At a secondary facade, the installation can be no more than minimally visible.

### Required Application Materials

- □ Photos of building facades and roof.
- □ Photos of areas of installation at the roof.
- □ Existing and proposed annotated roof plan showing locations where installations will occur.
- □ Comparative elevations existing and proposed conditions for each installation.
- □ Comparative building section drawings of existing and proposed conditions, showing HVAC or mechanical equipment installations on the roof, including dunnage and surrounding parapets:
  - Sightline section taken at a 6-foot eye level from directly across the street at the property line and other points where HVAC or mechanical equipment may be visible
- □ Manufacturer cut sheets of HVAC or mechanical equipment.
- □ Color specifications for visible installations only.
- □ Two sets of DOB filing drawings if proposed work requires a DOB permit.
- □ A physical mock-up of the installation may be required to determine potential visibility of rooftop HVAC and mechanical equipment (see Section C, Technical Guidance and Resources). If a mock-up is required, you must submit the following application materials:
  - □ Color photographs of the mock-up and roof from surrounding points on the street to demonstrate potential visibility of the proposed installation.
  - □ If the proposed installation is visible from a public thoroughfare, color photographs from points of visibility noting the maximum point of visibility.
    - If requested by staff, a photo montage for each view with the installation drawn in.
    - If LPC requires additional materials after your application is reviewed, you will receive a Materials Checklist from LPC staff.
The orange box is a physical mock-up of a proposed rooftop HVAC unit. Staff may require such a mock-up to determine an installation's potential visibility from public thoroughfares.

Rooftop HVAC installations, including vents and condensing units, can be minimally visible if it is not possible to make them non-visible from public thoroughfares.

Rooftop installations can include other mechanical equipment like solar panels, as seen here.

Minimally visible rooftop HVAC units, as seen from a public thoroughfare.
Installing HVAC and Other Mechanical Equipment in Yards and Areaways

Staff can approve HVAC and other mechanical installations in yards and areaways if they meet the following criteria:

**Location**
Equipment should be placed in a non-visible location. Equipment can only be installed in front of a primary facade or visible secondary facade if there is no practical or feasible alternative.

In front of a primary facade, the installation can be minimally visible only if at least partially screened by architectural or hardscape features, e.g., behind an areaway wall, within a below-grade light well. See Section C for more information on minimal visibility.

In front of a visible secondary facade, the installation must be set back as far as possible from the primary facade. Visibility can be reduced or eliminated through the use of permanent plantings.

**Installation**
Penetrations for associated conduits or ducts through the facade must be as small as possible to conform with manufacturer’s recommended dimensions.

**Finish**
If there is any visibility of HVAC and other mechanical equipment, conduit and ducts, and associated platforms, equipment must have a finish that matches the color of the facade material or is neutral and does not call attention to itself.

This HVAC unit was installed adjacent to a secondary facade. Evergreen plantings will further reduce the equipment’s visibility over time.

**Required Application Materials**

- Photos of building facades and areaway or yard.
- Photos of areas of installation at areaway or yard.
- Existing and proposed annotated areaway or site plan showing where installations will occur; if in the front areaway, include details on why it is not feasible elsewhere.
- Comparative elevations showing existing and proposed conditions for each installation.
- Comparative vertical section drawings of existing and proposed conditions, showing HVAC or mechanical equipment and attachment to paving, yard, or base of the wall, including platforms, conduits, and penetrations.
- Manufacturer cut sheets of HVAC or mechanical equipment.
- Color samples to match or harmonize with surrounding paving or wall at visible areaways and yards only.

If LPC requires additional materials after your application is reviewed, you will receive a Materials Checklist from LPC staff.
Section C
Technical Guidance and Resources

This section provides additional guidance and resources to help you understand LPC’s rules and criteria in order to submit the correct materials with your application.
Glossary

Decorative Masonry
is terra cotta, cast stone, natural stone (such as limestone, marble, brownstone, or granite), and brick facade areas; any ornamental feature that is a component of the facade such as belt courses, banding, water tables, cornices, corbelled brick work, medallions, enframements, and surrounds; and ornamental bonding patterns, e.g., tapestry or diaper brick patterns. The term does not include entirely plain units of stone, masonry, or brick laid up with simple, non-decorative coursing.

HVAC Equipment
includes through-window, through-wall, rooftop, areaway, and facade- and yard-mounted heating, ventilation, and air conditioning equipment, including louvers; wall-mounted louvers; and stove, restaurant, bathroom, and/or dryer vents.

Large Buildings
are seven or more stories or have a street frontage of more than 40 feet. Large buildings include large apartment buildings and hotels; large commercial and loft buildings, including cast-iron fronted buildings, department stores, banks, office buildings; and other building types.

Mechanical Equipment
is equipment other than HVAC equipment, such as solar and wind powered equipment, batteries and emergency generators, and any associated elements such as safety railings and sound attenuation screens, baffles, and other structures.

Minimally Visible
is the amount of visibility of HVAC and other mechanical equipment that the staff can approve over the primary and secondary facades:

Over a primary facade:
If there is no feasible or practical alternative, HVAC and other mechanical equipment can project into the maximum line of sight from a public thoroughfare no more than 12 inches in height if the equipment is less than 60 feet above the ground; project no more than 18 inches if the equipment is between 61 and 80 feet above the ground; project no more than 24 inches if the equipment is between 81 and 100 feet above the ground; and project no more than 36 inches if the equipment is more than 100 feet above the ground.

Over a secondary facade:
The visibility of HVAC and other mechanical equipment can project into the maximum line of sight from a public thoroughfare no more than 12 inches in height if the equipment is less than 60 feet above the ground; project no more than 18 inches if the equipment is between 61 and 80 feet above the ground; project no more than 24 inches if the equipment is between 81 and 100 feet above the ground; and project no more than 36 inches if the equipment is more than 100 feet above the ground.

Primary Facade
is:
A facade facing a street or public thoroughfare that is not a street, such as a mews or court.

A visible facade that possesses a level of design or significant architectural features that is commensurate with the building’s street-fronting facades, and where such facade:
Faces but does not front a street, such as a setback facade, or
Is part of a dominant massing element where at least one facade is street-fronting or street-facing, such as a tower element it.

A facade with a primary entrance to the building.

Secondary Facade
is a facade that does not front on a street or public thoroughfare and does not possess significant architectural features commensurate with the street-fronting facade.

Small Buildings
are six stories or fewer in height with a street frontage of 40 feet or less. Includes rowhouses, townhouses, mansions, detached and semi-detached houses, and carriage houses; small apartment buildings, tenements, and hotels; small, utilitarian, commercial, and loft buildings; and other building types.

See Chapter 6, Additions, for more information about minimal visibility.
Master Plans

Master plans, which generally do not have an expiration date, allow you to install HVAC or mechanical equipment over time as finances or vacancies permit. (See Section 2-02 of the LPC Rules). Master plans are more efficient because once approved, applications can be processed more quickly.

Master plans can be approved at the staff level or by the Commission, depending on whether the work meets LPC Rules.

Once established, the building owner can move forward quickly with work covered by a master plan by submitting a completed application form to the Commission, describing the scope of work, and stating that it conforms to master plan drawings and other documents.

Staff reviews the application and issues an Authorization to Proceed permit prior to commencement of work.

How to Construct a Mock-Up

If visibility cannot be determined from the drawings, a physical mock-up of your installation may be required to determine potential visibility of rooftop HVAC and mechanical equipment. A mock-up is a temporary, accurate, full-scale physical representation of the proposed modifications to a building that allows staff to assess the visibility of the proposed installation and its impact. (The applicant is responsible for the accuracy of the mock-up’s visibility; any mistakes in the mock-up are construed against the applicant.)

A mock-up is typically constructed from 2x4s or metal pipe and draped with orange construction netting, painted a bright color, or wrapped with bright yellow caution tape, or, in certain circumstances, a story pole is used. These materials ensure that it is clearly visible from the street.

The mock-up must include all mechanical equipment, as well as any required railings.

Once the mock-up has been constructed, contact the staff member assigned to your application and schedule a site visit. Your architect must be prepared to verify on-site (with drawings and a measuring tape) the heights and setbacks of various elements of the rooftop installation.

At the site inspection, LPC makes an initial determination on visibility of the rooftop installation from public thoroughfares and may suggest modifications to lessen impact.

Mock-ups are often required for projects being presented at a public hearing. In this case, the mock-up must be constructed of sturdy materials so it can be safely left in place over the course of the hearing so staff, Commissioners, and the community may view and document it.

Depending on the complexity and scale of your project, DOB and LPC permits may be required for the temporary installation of a mock-up. See Chapter 6 for more information on mock-ups.