



City of Tigard

January 1, 2017

Re: Mechanical Equipment Requirements

To Whom It May Concern:

When submitting for a permit to install mechanical equipment on a roof (RTU, split system condenser or air handler), the following must be provided:

- (2) copies of cut sheets showing weight, tonnage, size and capacities of unit to be installed.
- If a new curb is being installed, provide (2) copies of the listing for that product.

When trying to decide if engineering will be required for either lateral or vertical loads, the following guidelines shall be used:

- If the new unit weighs more than 400 pounds, a lateral design and calculations are required from a registered design professional. Lateral design shall comply with Sec. 1613 of the Oregon Structural Specialty Code and ASCE 7-05.
- If the unit is 400 pounds or less, lateral design will not be required, however a drawing showing adequate attachment to the curb and/or roof shall be shown on the plans specifying number and type of fasteners to be used.
- Mechanical fasteners shall be used to anchor any mechanical unit.
- Vertical loads shall be designed when a new unit is installed that changes the size of the footprint of the unit in relation to an existing curb or if a new curb is installed.
- No design will be required if the footprint of the unit does not change and it fits on the existing curb (push/pull installations) and weighs the same or less than the original unit.
- Verification of the weights of the old and new units shall be submitted along with the permit application.

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