

# NYWC SERIES UPFLOW PACKAGED TERMINAL AIR CONDITIONERS

## Hydronic or Steam Heating and Cooling Unit

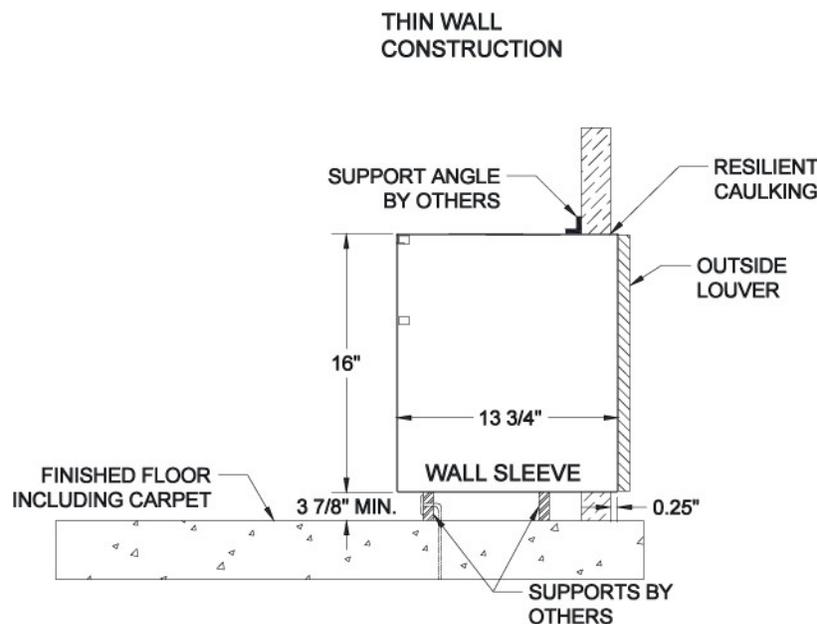
### WALL SLEEVE INSTALLATION MANUAL

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#### IMPORTANT:

#### **READ AND SAVE THESE INSTRUCTIONS. INSTALLATION MUST BE IN ACCORDANCE WITH LOCAL AND NATIONAL BUILDING CODES.**

The standard wall sleeve is designed to be easily installed in a variety of wall constructions. For panel wall and thin wall construction, it is recommended to install a top support angle (supplied by others) to secure the sleeve in the proper position. If the wall projects past the wall sleeve measures must be taken to assure proper drainage past the outside wall surface, and to stop recirculation of condenser air. Test fit the sleeve in the opening before securing it to the wall. Sleeve must be square and must not bow due to improper opening dimensions. If this happens the opening needs to be re-worked to allow proper installation.



#### **Wall sleeve Installation – Thin wall Construction**

The recommended procedure for installing units in panel wall and thin wall construction is as follows:

1. Clean the opening of all debris that may interfere with installation.
2. Push the sleeve through the wall opening so that a minimum of  $\frac{1}{4}$ " (6mm) projects past the outside wall. This will provide a fillet area for caulking (refer to figure 1). The center of gravity is approximately  $10\frac{3}{4}$ " (273mm) from the rear face of the standard wall sleeve. If a sub base is not used or the wall sleeve is more than 4" off the floor field support must be provided up to the center of gravity. This support can be metal wood or concrete.
3. The wall sleeve has been designed with a bottom pan slope towards the outdoors to allow for condensate drainage. Level wall sleeve from side to side and then level the front flange from bottom to top. The front face **MUST** be level or have a slight outward slope from bottom to top, to facilitate positive water drainage to the outdoor side. Anchor sleeve with appropriate fasteners. Drill holes as required to assure sleeve is secured firmly. **CAUTION:** Do not drill holes in the base of the wall sleeve. Use shims between the wall and the wall sleeve to prevent wall sleeve distortion during anchoring.

4. Caulk the wall sleeve to the wall opening on both the inside and outside perimeter. This can be done from the inside of the building. Be careful **NOT** to plug the weep holes in the rear, bottom flange of the sleeve.

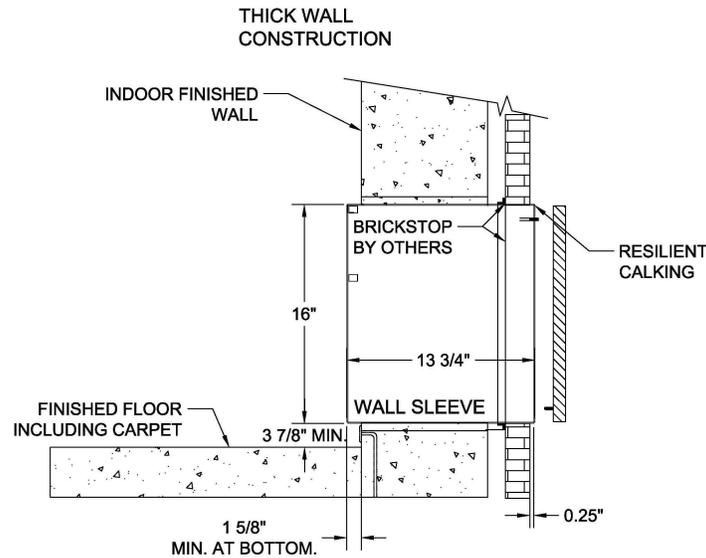


Figure 2

## Wall sleeve Installation – Thick wall Construction

The recommended procedure for installing units in panel wall and thin wall construction is as follows:

1. Clean the opening of all debris that may interfere with installation.
2. Be sure the unit's center of gravity falls within the load bearing surface of the wall. The center of gravity is approximately 10 3/4" (273mm) from the rear edge of the wall sleeve. If the center of gravity is not within the load bearing surface, then additional support must be added. This support can be metal wood or concrete.
3. Place a thin pad of mortar on the bottom of the opening. **IMPORTANT:** Make certain the wall sleeve protrudes into the room a minimum of 1 5/8" (41mm) at bottom beyond the finished wall surface to accommodate the heat section and room cabinet. Push the sleeve through the wall opening so that a minimum of 1/4" (6mm) projects past the outside wall. This will provide a fillet area for caulking (refer to figure 2)
4. If a brick stop is employed (by others) slide the wall sleeve into the wall so that it extends into the room a minimum of 1 5/8" (41mm) at bottom beyond the finished interior wall surface. This allows room to attach the heat section and room cabinet. It should also allow for a minimum of 1/4" (6mm) to project past the outside wall. This will provide a fillet area for caulking (refer to figure 2).
5. After the mortar has dried, remove the masonry support from the wall sleeve. **NOTE:** the wall sleeve is not intended to replace the lintel and must not be used as such.
6. The wall sleeve has been designed with a bottom pan slope towards the outdoors to allow for condensate drainage. Level wall sleeve from side to side and then level the front flange from bottom to top. The front face **MUST** be level or have a slight outward slope from bottom to top, to facilitate positive water drainage to the outdoor side. Anchor sleeve with appropriate fasteners. Drill holes as required to assure sleeve is secured firmly. **CAUTION:** Do not drill holes in the base of the wall sleeve. Use shims between the wall and the wall sleeve to prevent wall sleeve distortion during anchoring.
7. Caulk the wall sleeve to the wall opening on both the inside and outside perimeter. This can be done from the inside of the building. Be careful **NOT** to plug the weep holes in the rear, bottom flange of the sleeve.