

# Guidelines For Roof Mounted Outdoor Air-Conditioner Installations

Prepared by:



Air-Conditioning and  
Refrigeration Institute

Sheet Metal and  
Air-Conditioning Contractors  
National Association



GUIDELINE B-1997

## **ACKNOWLEDGEMENT**

These guidelines for Roof Mounted Outdoor Air-Conditioner Installations were prepared by the of the Air-Conditioning and Refrigeration Institute (ARI) and the Sheet Metal and Air-Conditioning Contractors National Association (SMACNA).

Therefore, thanks are in order for efforts by the technical staffs of each organization and the committees within each organization for their review and comments to finalize this document.

### **Note:**

This guideline supersedes ARI Guideline B-1986.

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This document contains guidelines for the installation of roof mounted outdoor air-conditioner equipment as developed and agreed upon by the Air-Conditioning & Refrigeration Institute (ARI) and Air-Conditioning Contractor's National Association, Inc. (SMACNA). The purpose of these Guidelines which cover curb and roof penetrations and sealings is to set forth good construction practices. The Guidelines are just that—guidelines—and are not standards, warranties or certifications.

The information contained in these Guidelines should serve as a supplement to the unit manufacturer's specific installation instructions. The precise steps to be taken with respect to a specific curb, roof penetration or sealing may vary according to particular circumstances, job conditions and manufacturer's specifications. In all cases, the necessary installation work should be done by and under the supervision of skilled and qualified personnel.

These Guidelines cover instructions on the interface between the roof and the location at which the unit, piping, electrical wiring or sheet metal ductwork pass through the roof. For more detailed design information, see the SMACNA Architectural Sheet Metal Manual, HVAC Duct Construction Standards, and the National Electrical Code. These documents were the source for many of the recommendations made in these Guidelines. No changes in these ARI - SMACNA Guidelines shall be made without the approval of ARI and SMACNA.