

### ONTARIO BUILDING CODE

#### 1.4.1.2. Defined Terms

*Conditioned space* means space within a *building* in which the temperature is controlled to limit variation in response to the exterior ambient temperature or interior differential temperatures by the provision, either directly or indirectly, of heating or cooling over substantial portions of the year.

#### 6.2.4.3. Construction and Installation of Ducts and Plenums

(10) Where a supply duct or return duct is not protected by an insulated exterior wall or where the duct is exposed to an unheated space it shall be insulated to provide a thermal resistance of not less than RSI 2.1.

(11) Where a supply duct or return duct is located in an unconditioned space or outdoors, all joints of the ductwork shall be sealed to a Class A seal level in accordance with the SMACNA, "HVAC Duct Construction Standards – Metal and Flexible".

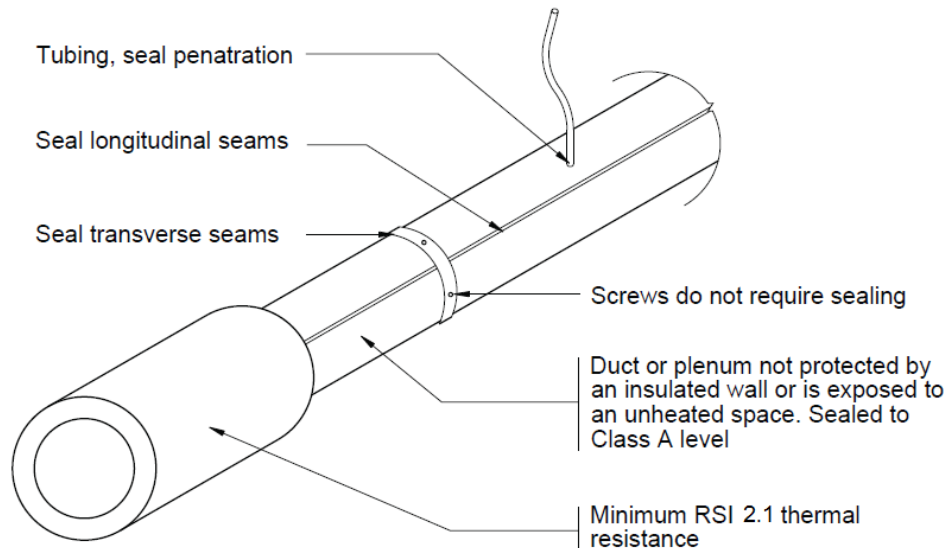
(12) Where a supply duct is located in a conditioned space, the ductwork shall be sealed to a Class C seal level in accordance with the SMACNA, "HVAC Duct Construction Standards – Metal and Flexible".

#### OBJECTIVE

To promote energy efficiency the 2012 Building Code has implemented the sealing of ducts to improve comfort levels, enhance indoor air quality and reduce energy costs.

Ducts passing through unconditioned or unheated spaces should have all joints taped to Class A seal level and all supply ducts, located in a conditioned space shall be sealed to Class C seal level.

The diagram below is an example of a duct sealed to a Class A level.



Note:  
 Class C seal level requires only transverse joints to be sealed

*Diagram credit Housing Construction Manual, Orderline Inc.*