

## Approved ductwork location details

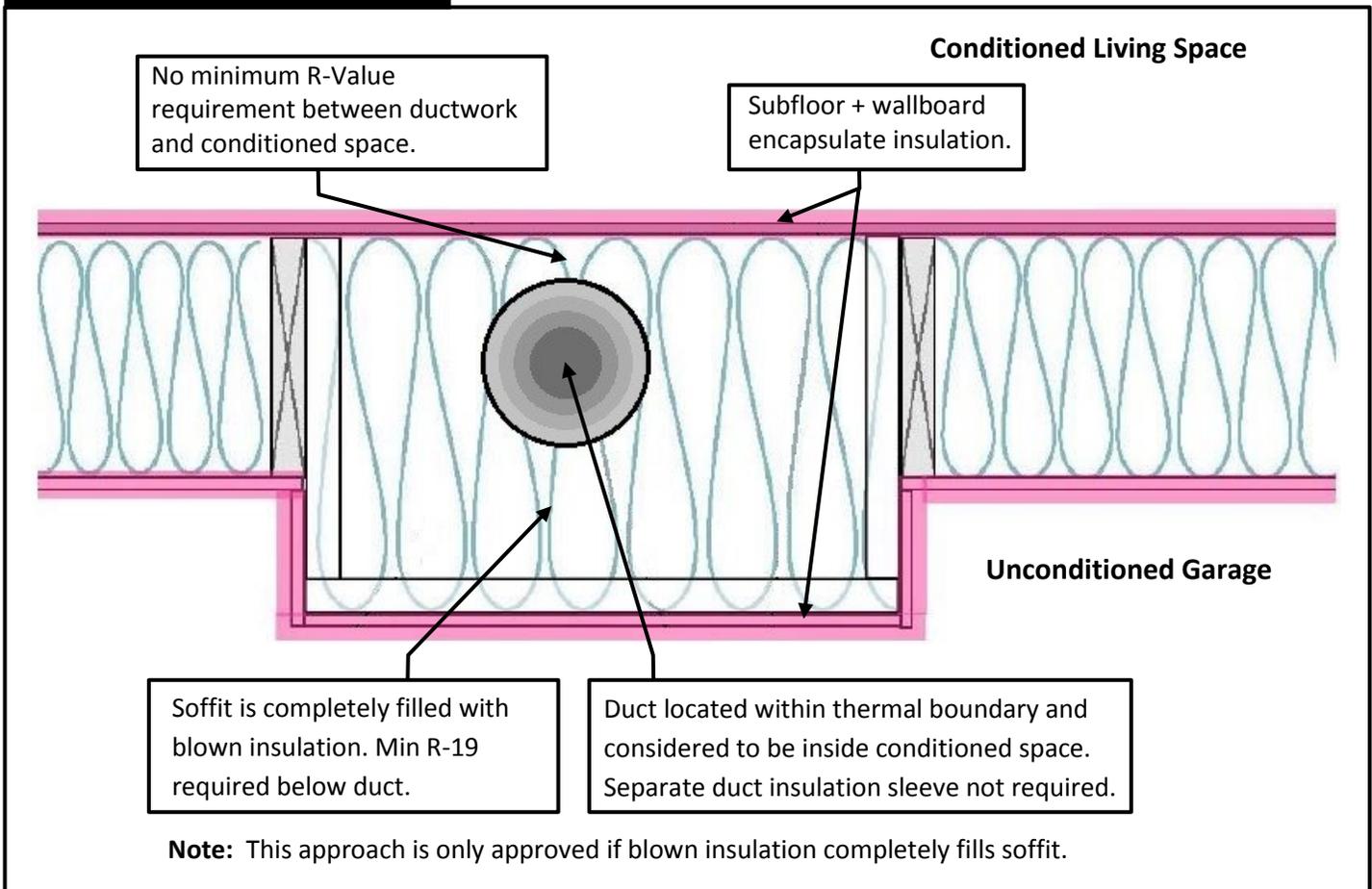
With respect to the thermal boundary, ducts can be located inside, outside or a combination. Sometimes the location is obvious, in others it is not. Fort Collins Building Services is providing the following approved details that, when followed, will classify ductwork in several of these less-obvious cases – exterior walls, floors over garages, soffits adjacent to garages, cantilevers – as inside the thermal boundary.

### Residential New Construction Mechanical Systems Testing Guide

#### 5.0 Heating + Cooling Duct Leakage

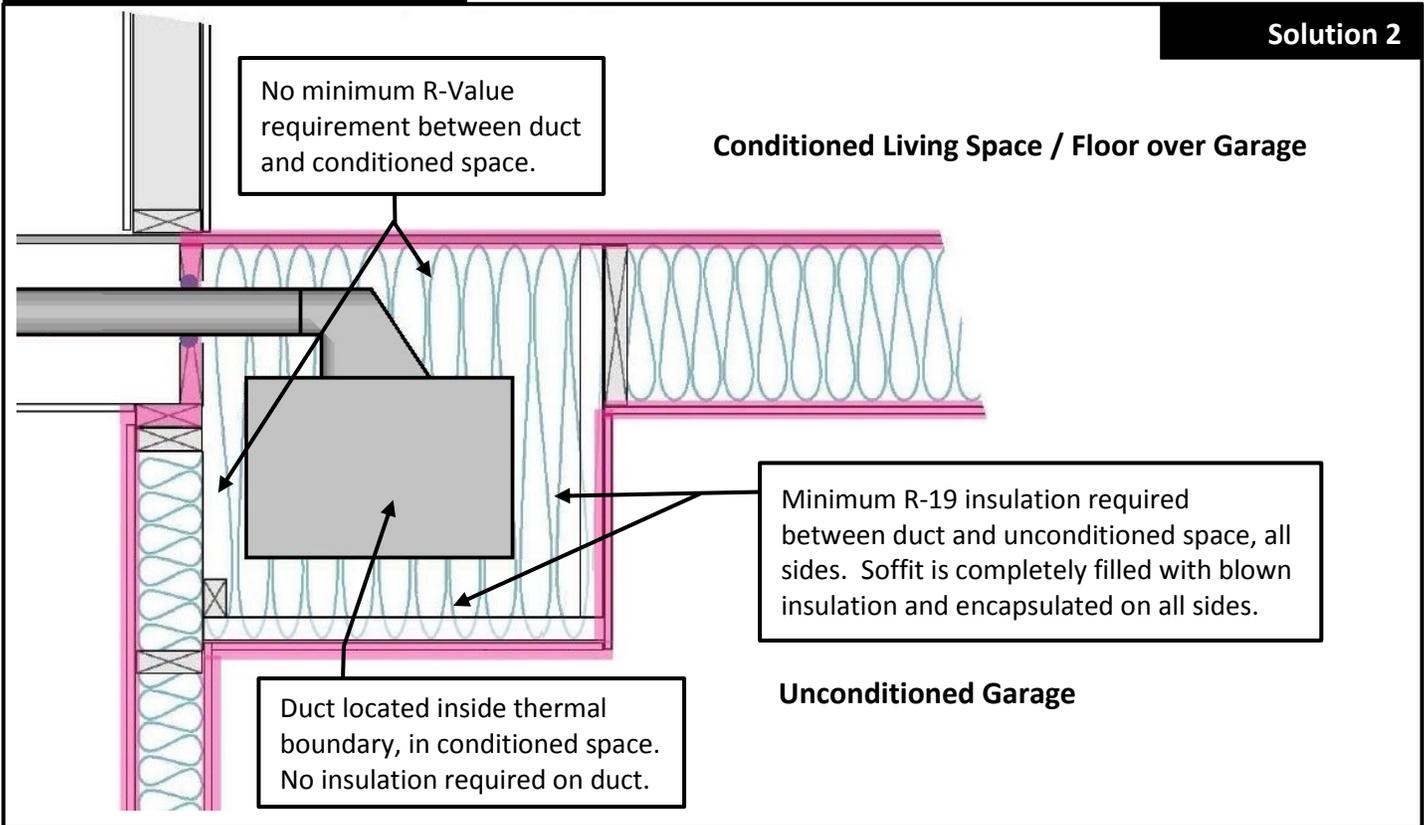
... Depending on the relationship between thermal boundary and ductwork details, ducts running through floor space above a garage or in other soffits through a garage may be considered to be in conditioned or unconditioned space. To be considered within conditioned space, details approved by Building Services must be used; these details must be clearly documented during design and carried through installation. When there is no clear documentation, treat these ducts as if they're in unconditioned space and as such the HVAC duct system will require leakage testing.

#### Ductwork in floor over garage



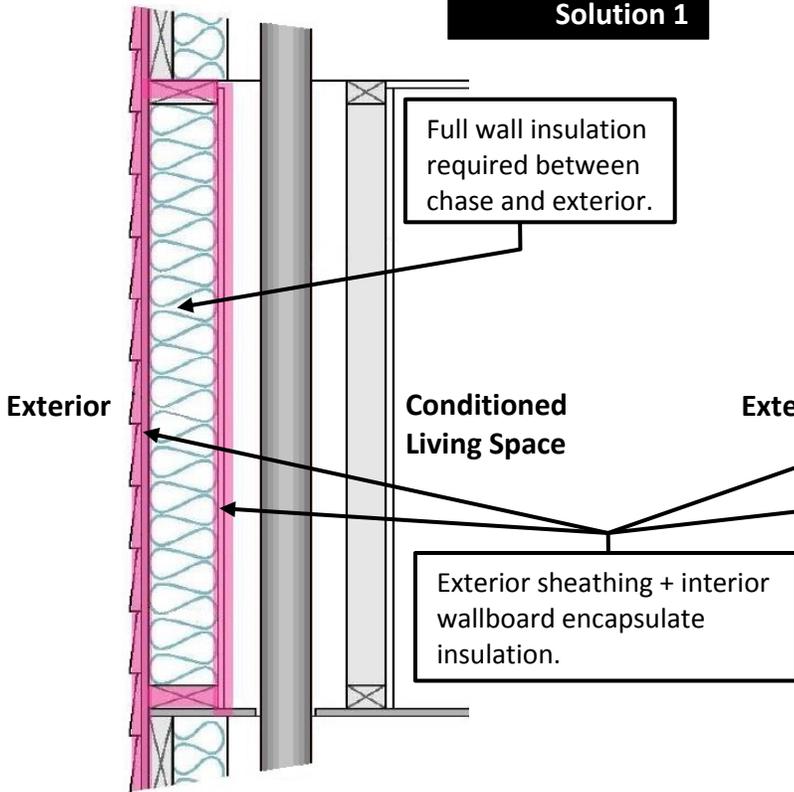
## Ductwork in garage soffit

## Solution 2

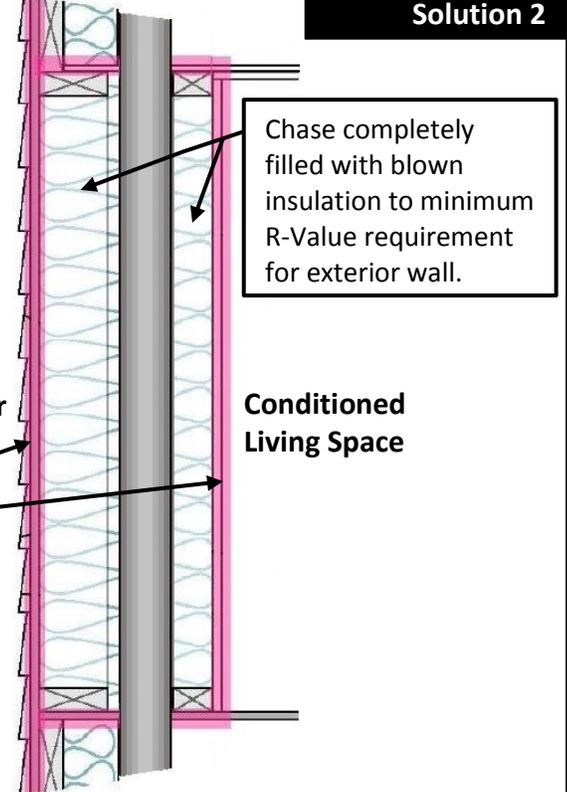


Ductwork in exterior wall

Solution 1

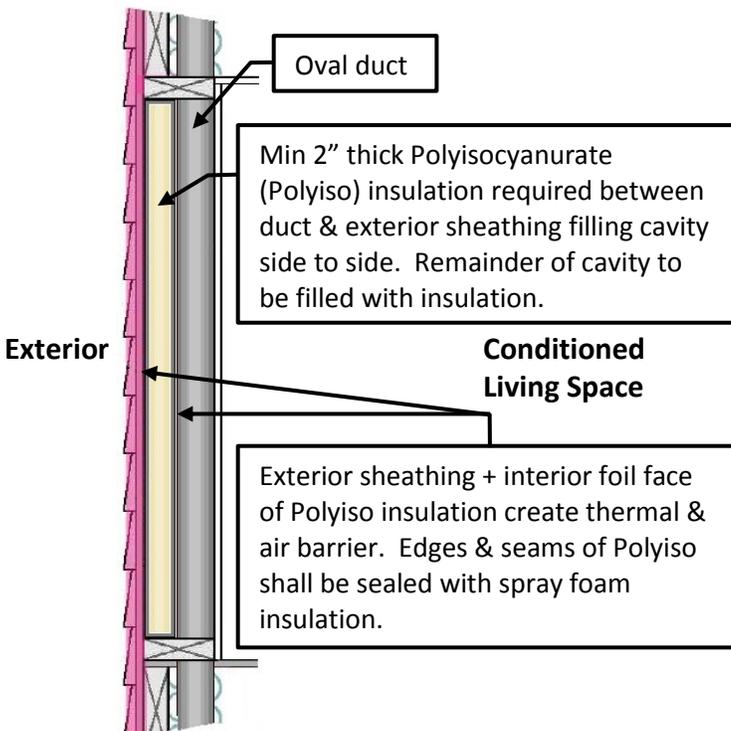


Solution 2



**Note:** This approach is only approved if blown insulation completely fills chase.

Solution 3



Examples from the field.