



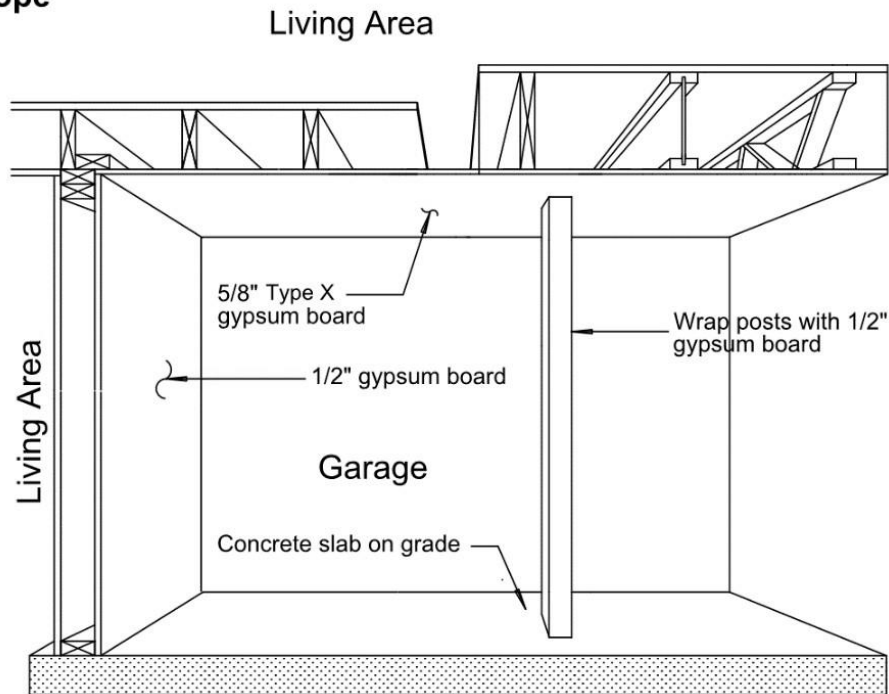
### Residential Garage Separation

This tip sheet reflects code requirements of the 2018 International Residential Code (IRC).

#### IRC Table R302.6 - Dwelling/Garage Separation

Access	Material
From the residence and attics	Not less than 1/2-inch gypsum board or equivalent applied to the garage side
From habitable rooms above the garage	Not less than 5/8-inch Type X gypsum board or equivalent
Structure(s) supporting floor/ceiling assemblies used for separation required by this section	Not less than 1/2-inch gypsum board or equivalent
Garages located less than 3 feet from a dwelling unit on the same	Not less than 1/2-inch gypsum board or equivalent applied to the interior side of exterior walls that are

#### Envelope



Dwelling / Garage Separation

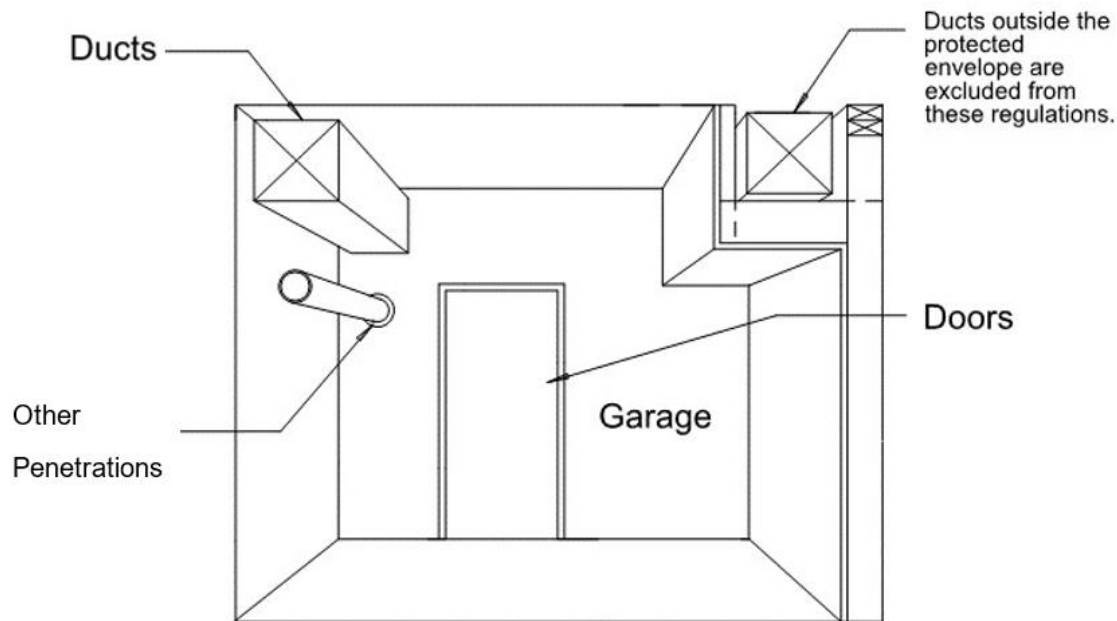
#### Fastening of Gypsum Board per IRC Table R702.3.5

- 5/8-inch Type X gypsum board at garage ceiling beneath habitable rooms to be fastened with:
  - 1-7/8-inch 6d cooler nails, or 1-1/4-inch Type W screws, at 6 inches on center when the framing is 24 inches on center maximum.



- 1/2-inch gypsum board at walls separating the garage from the dwelling to be fastened with:
  - 1-5/8-inch 5d cooler nail at 8 inches on center, or 1-1/4-inch Type W screws at 16 inches on center, when framing is 16 inches on center maximum.
  - 1-5/8-inch 5d cooler nails at 8 inches on center, or 1-1/4-inch Type W screws at 12 inches on center, when framing is 24 inches on center maximum.

### Penetrations (at the Protected Envelope)



### Duct Penetrations

Ducts in the garage and ducts penetrating the walls or ceilings separating the dwelling from the garage must be a minimum of No. 26 gauge sheet metal with no register outlets (openings) into the garage. (R302.5.2)

### Other Penetrations

Penetrations through the required separation must be protected at openings around vents, pipes, ducts, cables and wires at ceiling and floor level, with an approved material to resist the free passage of flame and products of combustion. The material filling this annular space shall not be required to meet the ASTM E 136 requirements. (R302.11, Item 4)

### Doors

Doors separating the garage and living spaces shall be solid wood doors not less than 1-3/8 inches thick, solid or honeycomb-core steel not less than 1-3/8 inches thick, or 20-minute rated doors. These doors shall not open into a sleeping room. (R302.5.1)