A Cross Section of the Two Family Dwelling Unit Separation (Section R302.3)

BUILDING PLANNING

RSIQ.2.3 Paraget construction. Paragets shall have the same fine-sessiance rating as that control of the temporting wall or walls. On any side adjacent to a roof surface, the pure per shall have noncombostible faces for the uppermost 16 inches (457 mm), to include countertheisting and coping materials. Where the roof slopes toward a paraget at slopes greater than 2 units wetched in 12 units horizontal (16.7-per-cent slope), the paraget skill settent to fine same height as any portion of the roof white a distance of 3 feet (914 mm), but in no case skill the height to less than 30 inches (762 mm).

R302.2.4 Structural independence. Each individual townhouse shall be structurally independent

Exceptions:

- Foundations supporting exterior walls or community walls.
- Structural roof and wall sheathing from each unit may fasten to the common wall framing.
- Nonstructural wall and roof coverings.
 Hashing at termination of roof covering over com-
- from wall.

 5. Townhouses separated by a common 1-hou
- Townhouses separated by a common 1-hour fire-resistance-rated wall as provided in Section R302.2.

R302.3 Two family dwellings. *Dwelling units* in two-lamily dwellings shall be separated from each other by wall anablor floor assemblies inventig not less than a 1-hour fler-resistance rating when tested in accordance with ASTM & 119 or III. 263, if the resistance-rated floor-ceiling and wall assemblies shall extend to and be tight against the accurour wall, and wall assemblies shall extend from the foundation to the underside of the biles shall extend from the foundation to the underside of the

Exceptions:

- A fire-resistance rating of ¹/₂ hour shall be permitted in buildings equipped throughout with an automatic sprinkler system installed in accordance with NFPA 13.
- Wall assemblies need not extend through artic spaces when the ceiling is potented by not less than ½-inch (15.9 mm) ½-pax K gypsum board and an artic utall step constructed as specified in Section RSUZ.12.1 is provided above and along the wall assembly separedting the chellings will also be protected by not less than the ceiling shall also be protected by not less than ½-inch (12.7 mm) gypsum board or equivalent.

R302.3.1 Supporting construction. When floor assemblies are required to be the resistance rated by Section R302.3, the supporting construction of such assemblies shall have an equal or greater fire-resistance rating.

R302.4 Dwelling unit rated penetrations, Penetrations of wall or floor/celling assemblies required to be fire-resistance rated in accordance with Section R302.2 or R302.3 shall be protected in accordance with this section.

302.4.1 Through penetrations. Through penetrations of re-resistance-rated wall or floor assemblies shall comply this Section R302.4.1.1 or R302.4.1.2.

Exception: Where the penetrating froms are steel, ferrous or copper pipes, tubes or conduits, the annular space shall be protected as follows:

- In concrete or masumry wall or floor assemblies, concrete, grout or morter shall be permitted where installed to the full thickness of the wall or floor assembly or the thickness required to maintain the fire resistance rating, provided:
- The nominal diameter of the penetrating term is a maximum of 6 inches (152 mm);
- 1.2. The area of the opening through the wall does not exceed 144 square inches (92 900 mm²)
- 2. The material used to fill the annulus space shall prevent the passage of filame and hot gaves sufficient to ignifications waste where subjected in ASTM II 18 or UL 283 time temperature line conditions under a minimum positive pressure differential of 10 of inch influential conditions of the penetration for the time predict apputation to the fire resistance rating of the construction penetrated.

R302,4,1,1 Fire-resistance rated assembly. Penetrations shall be installed as tested in the approved fire-resistance-rated assembly.

R302.4.1.2 Penetrathon firestop system. Penetrations shall be predected by an approved penetration firestop system installed as tested in exculence with NATM is \$4 or UL 1479, with a minimum positive procsure differential of 0.0 L inch of water (\$40) and shall have an H sating of not less than the required fire-resistance rating of the wall or flooriesting assembly penetrated.

RSIB.4.2 Membrane penetrations. Membrane puretrations shall comply with Section RSID.4.1. Where wells are required to have a fire-resistance rating, recessed fixtures shall be installed so that the required fire-resistance rating will not be reduced.

Exceptions:

- I. Membrane penetrations of maximum 2-bour five-resistance-rated walls and partitions by steet electrical boxes that do not exceed its square incipse (0.0163 m²) in area provided the aggregate area of the opendings frought the membrane and on exceed 100 square tracies: (0.0645 m²) in any 100 square fact (9.29 m²) of wall area. The annular space between the wall membrane and the box shall not exceed ½, luch (3.1 mm). Such boxes on opposite sides of the wall shall be separated by one of the following:
- 1.1. By a horizontal distance of not less than 24 inches (610 mm) where the wall or parti-

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