

H-Stud Area Separation Wall Assemblies

Product Benefits

- Phillips H-Stud and U-Track are key framing components and add structural integrity to Area Separation Wall Assemblies
- Phillips H-Stud is hemmed for a clean, safe edge that protects board paper during installation
- The H-Stud Area Separation Wall Assembly is a lightweight, easily erected cavity drywall assembly designed to be a vertical fire barrier between adjacent wood frame dwelling units such as apartments, condominiums, townhomes, etc.
- The H-Stud Area Separation Wall Assembly features high STC ratings that provide acoustical privacy as well as 2-hour fire endurance ratings (See Gypsum Association GA-600 for Fire and STC Ratings)
- The H-Stud Area Separation Wall Assembly provides continuous fire resistant membrane from foundation to roof, unbroken by floor or roof structural members
- Both the H-Stud Area Separation Wall and the structural framing can be erected quickly by carpenter tradesmen which can simplify job scheduling and avoid delays
- Preferable to construction of stand-alone 25-30 feet high alternative material walls (e.g. concrete block walls)
- The H-Stud Area Separation Wall Assembly may be built up to four stories high (three stories plus basement)
- The large panels speed up installation
- The H-Stud Area Separation Wall has unsupported wall height limitation of 12' (Support is provided by clips near each floor line)
- As little as 3" wall thickness needed to provide 2-hour fire resistance ratings
- Increase useable space as the H-Stud Area Separation Wall Assembly uses less space than other types of walls; two to four inch thickness rather than eight to twelve inches
- Weighing as little as 9.4 psf, there is a considerable weight reduction when compared to concrete block

Limitations

- Non-load bearing
- This assembly should not be used where exposure to constant dampness or conditions under which free water can be formed
- Gypsum board products and insulation in the H-Stud Area Separation Wall must be protected from wetting and therefore shall not be installed until building is closed in

Assembly Certifications

- ASTM C 1396 Standard Specification for Gypsum Board
- ASTM C 588 Standard Specification for Gypsum Base for Veneer Plasters
- ASTM C 645 Standard Specification for Nonstructural Steel Framing Members
- ASTM E 119 Standard Test Methods for Fire Tests of Building Construction and Materials
- ICC ES, Inc. Legacy Report 90-26.01 H-Stud Fire Wall/Party Wall
- UL Design No. U347

Accessories

- ASTM C 665, Type 1, mineral fiber (either glass or rockwool) insulation blankets without membrane facing
- Phillips Manufacturing corner and casing beads
- Joint compound
- Acoustical sealant: Nondrying, nonhardening, nonskinning, nonstaining, nonbleeding, gunnable type as recommended by the manufacturer
- Phillips Manufacturing resilient sound channel (RC-1 and/or RC-2) x 12' length

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Materials and Sizes

- Metal Framing
 - Phillips Manufacturing Hemmed H-Stud 2" x length (up to 12') x 25 gauge nom.
 - Phillips Manufacturing U-Track 2" x 10' x 25 gauge nom.
- Phillips Manufacturing ASW clips: The framing attachment ASW clips are made of 0.050" aluminum alloy that softens at about 1000°F (538°C). Phillips ASW clips are shaped at a 90° angle and are 2" wide with 2" x 2-1/2" legs
- Gypsum Board
 - Fire Rated Gypsum Board 1" x 24" x length (up to 12')
 - Water-Resistant Gypsum Backing Board 1/2" x 48" x length (up to 12')
 - Shaftwall Coreboard (wallboard with fire resistance and water repellent paper) 1/2" x 48" x length (up to 12')

Storage

- Store in a dry place protected from moisture

Installation Recommendations, Fire Endurance Ratings, Sound Transmission Data

Phillips recommends installation in accordance with applicable ASTM standards and using prevalent industry standards. Reference documents include ASTM C 840, Gypsum Association GA-216, Gypsum Association GA-290, Gypsum Association GA-600 and Phillips Manufacturing's website (www.phillipsmfg.com).

Submittal Approvals:

Job Name: _____

Contractor: _____ **Date:** _____

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