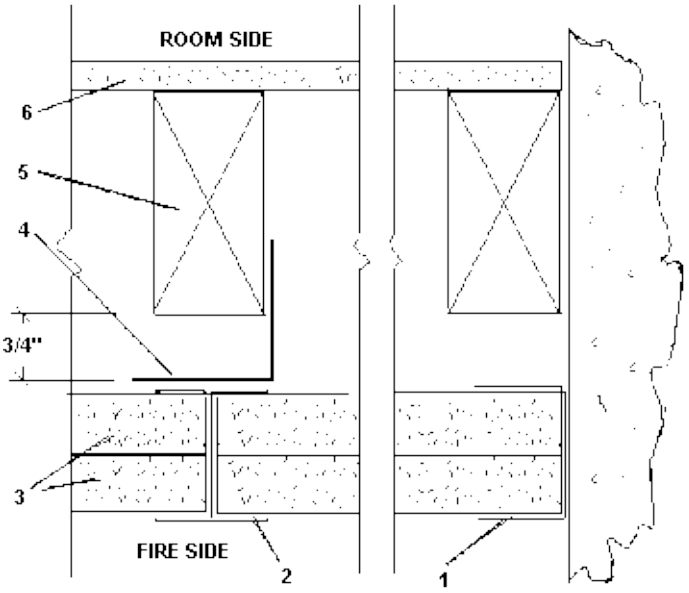
ClarkDietrich®
Design No. CD/WA 120-04
Restricted Load Bearing Non-Symmetrical Area Separation Wall
Tested with Gypsum Shaftliner Under Load Simulating a Wall Height of 50 Feet
ASTM E119 and CAN/ULC S101
Fire Resistance Rating: 2 Hour with Exposure on Fire Side
Design Weight: 11 psf



1. **FLOOR, UPPER, CORNER, AND INTERSECTION RUNNERS*:** C-Runner, 2-1/8 in. deep roll-formed from min. 0.018 in. thick galvanized steel. Position runners at 3/4 in. min. spacing from wood framing members. Runners attached to foundation or structural members with steel fasteners located not greater than 24 in. on center (oc). Runners are manufactured by ClarkDietrich.

2. **STEEL STUDS*:** 'H' shaped studs, 1-1/2 in. wide × 2 in. deep, roll-formed from min. 0.018 in. thick galvanized steel. Cut to length 1/2 in. less than the openings height and spaced 24 in. max. oc within runner legs and between two layers of 1 in. thick gypsum shaftliner panels. Studs are manufactured by ClarkDietrich.

3. **GYPSUM SHAFTLINER:** 1 in. thick CertainTeed M2Tech Shaftliner Type X gypsum board (complying with ASTM C1396), or 1 in. thick Continental™ Shaftliner Type X* drywall, or Mold Defense® Shaftliner Type X* drywall, or 1 in. Weather Defense® Platinum Shaftliner Type X* drywall (complying with ASTM C1396), or 1 in. thick National Gypsum Gold Bond® Fire Shield® Shaftliner (complying with ASTM C1396), or USG Sheetrock® Gypsum Liner Panel (complying with ASTM C1396 for Type X), supplied in nominal 24 in. widths. Two panels are inserted against the web of the C-Runners and into the 2 in. deep recess of the studs.

4. **ALUMINUM CLIPS:** 2 in. long × 2 in. or 2-1/2 in. legs × 0.050 in. thick aluminum angle, spaced 54 in. oc max. vertically, to wood framing with 4d box nails or 1-1/4 in. drywall screws and to steel stud flanges with framing screws.

5. 2 in. × 4 in. nominal wood framing, spaced 24 in. oc max.

6. **GYPSUM BOARD:** 1/2 in. thick CertainTeed Type C proprietary core gypsum board, or 5/8 in. thick Type X gypsum board (complying with ASTM C1396), or 1/2 in. thick Continental Firecheck® proprietary core Type C drywall, or 5/8 in. thick Firecheck® Type X drywall (complying with ASTM C1396), or 1/2 in. thick National Gypsum Gold Bond® Fire Shield® C proprietary core gypsum board, or 5/8 in. thick Fire Shield® gypsum board (complying with ASTM C1396 for Type X), or 1/2 in. thick USG Sheetrock® Firecode® C proprietary core gypsum board, or 5/8 in. thick Sheetrock® Firecode X gypsum board (complying with ASTM C1396), applied horizontally to wood framing on the room side with 5d drywall nails 8 in. oc. Face layer gypsum board joints are finished with paper tape and joint compound (complying with ASTM C475). Exposed screw heads are finished with joint compound (complying with ASTM C475).

   Limitations: Gypsum Shaftliner and Gypsum Board must be by same manufacturer. Parapet construction may be required by local code.

   Allowance: 2 in. thick 'H' stud and Shaftliner Wall provides 120 min. protective membrane rating for framing with 3/4 in. separating.

*Component bearing the Warnock Hersey Certification Mark

Consult the listing report on the Directory of Building Products (https://bpdirectory.intertek.com) for the edition of the standard(s) evaluated.

Compliance of the assembly described in this Design Listing with the referenced standard relies on verification that the assembly constructed in the field is consistent with that described herein. Intertek certified products may be verified by the approved Intertek label; other products must be verified by the Authority Having Jurisdiction as meeting the specifications stated herein.