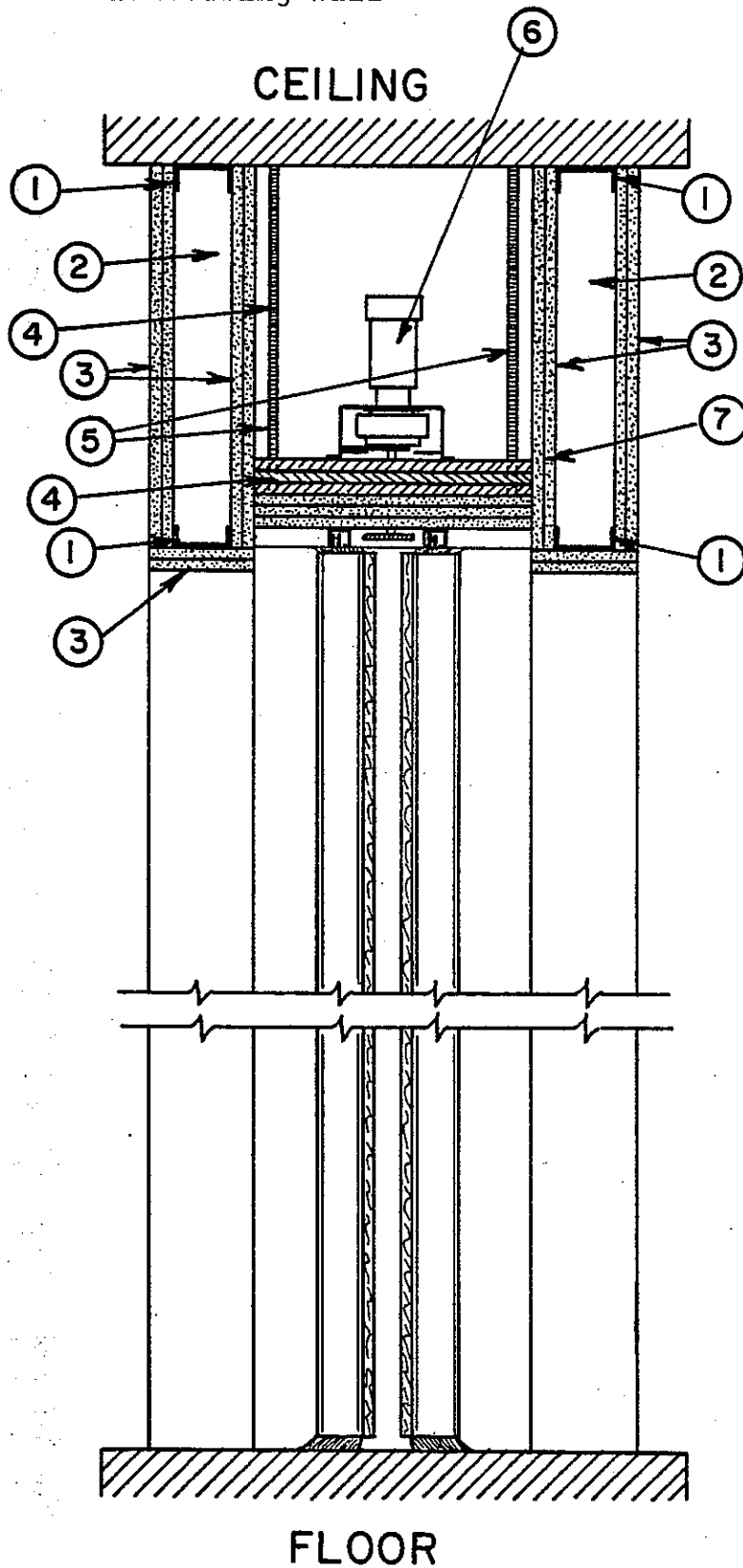
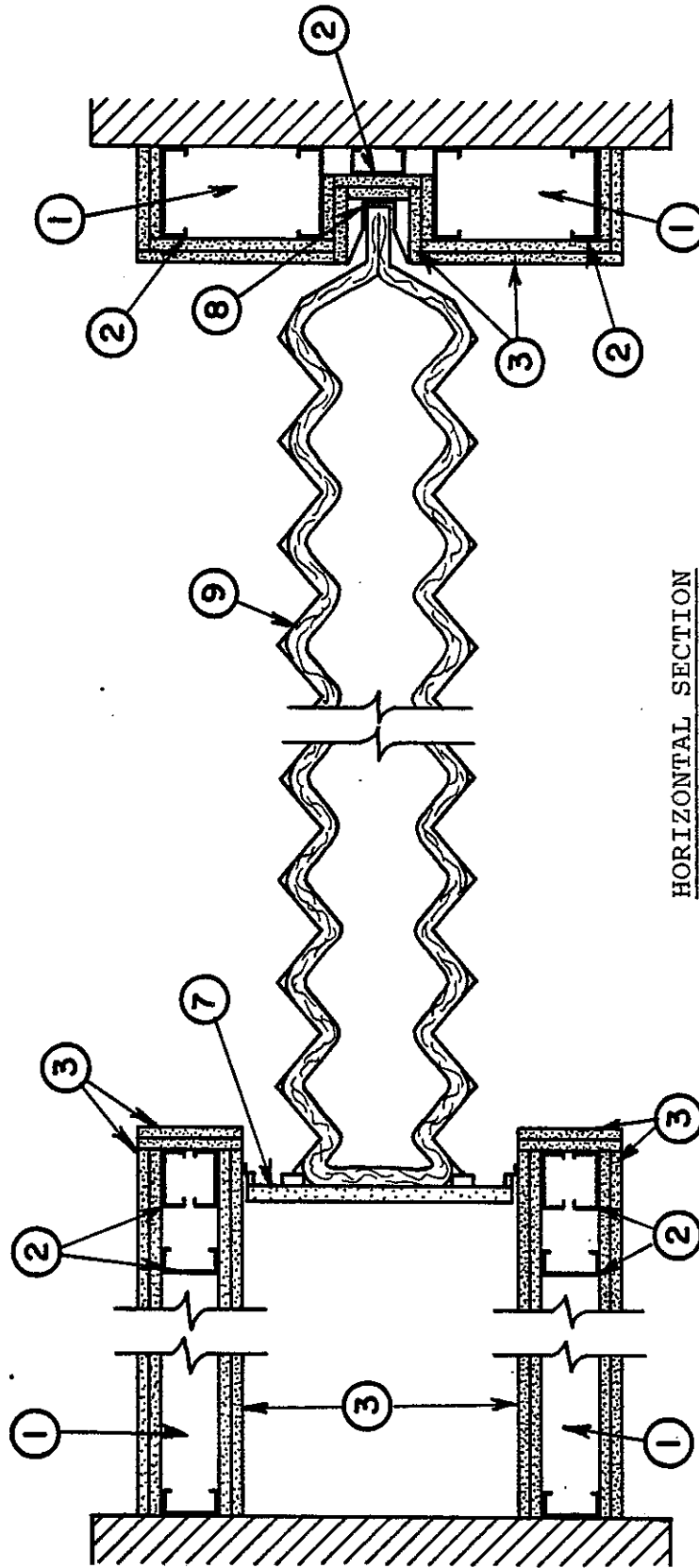


Design No. U520
Assembly Rating - 2 Hr.
Nonbearing Wall



VERTICAL SECTION

Design No. U520
Assembly Rating 2 Hr.
Nonbearing Wall



DESIGN NO. U520
ASSEMBLY RATING 2 H
NONBEARING WALL

1. Floor and Ceiling Runners -- Channel shaped; At header location and floating jamb location, dimensions are 4 in. wide with 1 in. flanges. Fabricated from No. 24 MSG coated steel. Dimensions at striker jamb locations are 6 in. wide with 2 in. flanges, fabricated from No. 24 MSG coated steel. Attached to floor and ceiling with lead anchor fasteners, welds, or screws as necessary.
2. Studs - Channel shaped; Dimensions at header location and floating jamb location, are 4 in. wide with 1-1/8 in. flanges and 5/16 in. returns, fabricated from No. 22 MSG coated steel. Dimensions at striker jamb location are 6 in. wide with 1-5/16 in. flanges and 5/16 in. returns, fabricated from No. 26 MSG coated steel.
3. Wallboard, Gypsum* - Thickness 1/2 in., width 48 in. Two layers used throughout with three 1/2 in. layers used below plywood header support. Inner layer attached to studs and runners with 1 in. long Type "S" double lead, Phillips bugle head self-drilling, tapping steel screws. Spacing 12 in. OC. Second layer same type 1-5/8 in. long, spaced 12 in OC and staggered 6 in. from first layer screws. Screws used to fasten third layer of wallboard at header location to be same type as above, 2-1/4 in. long, spaced 12 in. OC and staggered 3 in. from second layer. Wallboard to be any gypsum wallboard bearing the UL Classification Marking as to fire resistance. See Wallboard, Gypsum (CKNX) category for names of Classified Companies.
4. Header Support Hangers - Used to support plywood header - steel rods, minimum 1/2 in. diameter with threaded ends used with steel washers and nuts. Spaced 12 in. OC at stacking end of partition and 18 in. OC in field.

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B Card (Cont'd from
A and A1 Cards)

5. Plywood Header - Fabricated from three layers of nominal 3/4 in. thick APA rated plywood. Layers glued together with construction adhesive and Type "G" steel screws 1-1/2 in. long. Screws spaced 12 in. OC; in three rows located 1-1/2 in. from edges and down center. Adhesive used as per manufacturer's instructions.
6. Closing System - The closing system shall consist of a UL Listed electric motor drive unit, a control box, key switch module, leading edge obstruction detector and attendant electrical wiring and hardware. The electric motor drive unit must be located within a 2 h fire rated enclosure having a 2 h rated fire access door. See Electrical Appliance and Utilization Equipment Directory, Process Management Equipment (QVAX) category.
7. Floating Jamb - Nominal 18 in. wide, installed in pocket constructed of wallboard, steel runners, steel stud construction as described in Items 1, 2 and 3. Minimum depth of pocket 8 in.
8. Striker Jamb* - Nominal 4 in. wide, 4-3/16 in. deep. Installed in a pocket constructed of materials described in Items 1, 2 and 3.
9. Folding Fire Partition* - Two parallel walls. Consisting of folding panels fabricated of individual No. 24 MSG thick coated and painted steel and 4-1/2 in. wide; adjacent panels connected with formed steel hinges. Upper and lower sweeps fabricated from self-extinguishing vinyl. Interior surface of both walls covered with a continuous UL Classified 3/4 in. thick ceramic fiber blanket, secured to each panel with a steel panel clip system. Individual walls shall be attached at floating jamb and at lead post. Walls to have steel rollers.

*Bearing the UL Classification Marking