

Lock cylinders, Section 08710S DOOR HARDWARE.

Operator field connections to power sources and inner connection to control switches, Division 16, "Electrical."

Drawings must include:

Accordion-folding partition locations, sizes, and stack area

Head conditions indicating height, track anchorage, track channel, and jamb conditions

A schedule of partitions by type, sizes, and stack space and identified by mark number or letter

Drawing details must make clear that ceilings are independently suspended, not supported by ceiling guards.

Recommended changes to a UFGS should be submitted as a Criteria Change Request (CCR).

Use of electronic communication is encouraged.

PART 1 GENERAL

1.1 REFERENCES

NOTE: This paragraph is used to list the publications cited in the text of the guide specification. The publications are referred to in the text by basic designation only and listed in this paragraph by organization, designation, date, and title.

Use the Reference Wizard's Check Reference feature when you add a RID outside of the Section's Reference Article to automatically place the reference in the Reference Article. Also use the Reference Wizard's Check Reference feature to update the issue dates.

References not used in the text will automatically be deleted from this section of the project specification when you choose to reconcile references in the publish print process.

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

ASTM INTERNATIONAL (ASTM)

ASTM E 84	(2005) Standard Test Method for Surface Burning Characteristics of Building Materials
ASTM E 90	(2004) Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements

1.2 SUBMITTALS

NOTE: Review Submittal Description (SD) definitions in Section 01330 SUBMITTAL PROCEDURES and edit the following list to reflect only the submittals required for the project. Submittals should be kept to the minimum required for adequate quality control.

A "G" following a submittal item indicates that the submittal requires Government approval. Some submittals are already marked with a "G". Only delete an existing "G" if the submittal item is not complex and can be reviewed through the Contractor's Quality Control system. Only add a "G" if the submittal is sufficiently important or complex in context of the project.

For submittals requiring Government approval on Army projects, a code of up to three characters within the submittal tags may be used following the "G" designation to indicate the approving authority. Codes for Army projects using the Resident Management System (RMS) are: "AE" for Architect-Engineer; "DO" for District Office (Engineering Division or other organization in the District Office); "AO" for Area Office; "RO" for Resident Office; and "PO" for Project Office. Codes following the "G" typically are not used for Navy, Air Force, and NASA projects.

Choose the first bracketed item for Navy, Air Force and NASA projects, or choose the second bracketed item for Army projects.

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are [for Contractor Quality Control approval.] [for information only. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government.] Submit the following in accordance with Section 01330 SUBMITTAL PROCEDURES:

SD-02 Shop Drawings

Fabrication Drawings shall be submitted in accordance with paragraph entitled, "General Information," of this section.

Installation drawings shall be submitted for the following items

in accordance with paragraph entitled, "Installation," of this section.

Accordion-Folding Partitions
Suspension System
Finish Hardware
Jamb Panels
Electric Operator
Accessories

SD-03 Product Data

Manufacturer's catalog data shall be submitted for the following items:

Accordion-Folding Partitions
Suspension System
Finish Hardware
Sound Seals
Ceiling Guard
Meeting Posts
Jamb Panels
Switches
Rolling Post
Pull-In Latch
Electric Operator

SD-04 Samples

Samples of the following shall be submitted in accordance with paragraph entitled, "Product Information," of this section.

Fabric
Track
Switches
Trolley Assemblies

SD-07 Certificates

Certificates shall be submitted in accordance with paragraph entitled, "General Information," of this section.

1.3 DELIVERY, HANDLING, AND STORAGE

Material shall be delivered in the manufacturer's original, unopened, and undamaged packages with labels legible and intact. Labels shall indicate the manufacturer, brand name, size, finish, and location. Folding partitions and accessories shall be stored in unopened packages in a manner that will prevent damage from the environment and from construction operations. Partition materials shall be handled in accordance with the manufacturer's instructions.

Damaged items shall be replaced at the Contractor's expense.

1.4 FIELD MEASUREMENTS

Field measurements shall be taken prior to the preparation of drawings and fabrication to ensure proper fits.

1.5 GENERAL INFORMATION

Fabrication Drawings shall be submitted for Accordion-Folding Partitions consisting of fabrication and assembly details to be performed in the factory.

Certificates for accordion-folding partitions shall be submitted showing the following:

NOTE: Delete any of the following paragraphs that are not applicable.

Include the following paragraph only for special requirements of the standard over-1-year guarantee, ordinarily 2 years.

Certificates indicating complete independent laboratory test results signed by a laboratory official, including ASTM test, size of opening, and weight of partition, and fire-retardation and sound-retardation of partitions.

Certification that materials meet the requirements of regulatory agencies and that fire-hazard classification of materials complies with local regulatory agencies.

Installers shall have a minimum [2] [_____] years experience installing folding partitions and accessories. Personnel working pursuant to this section, may at the Contracting Officer's option, be required to demonstrate technical competence by performing sample work [and/or by displaying their state qualifications/certificates], at no additional cost to the Government.

Partitions will be free of defects in materials, fabrication, finish, and installation and that they will remain so for a period of not less than [_____] years after completion.

PART 2 PRODUCTS

2.1 FINISH

NOTE: For the following paragraph, select the weight from the manufacturer's standard. Cover weights of some manufacturers include backing liners and usually range from 850 grams to 1360 grams 30 ounces to 48 ounces. When liners are included in cover weights, the range may exceed 8500 grams 300 ounces.

Weight of partition fabric (gram per linear meter) (ounce per linear yard) shall be as indicated.

NOTE: Vinyl fabric can be supported or unsupported. In its unsupported form, it is uncontrollable for

expansion and contraction and may be easily punctured, ripped, or torn. To stabilize the vinyl, it is preferable to laminate liquid vinyl to a fabric backing such as jute, cotton drill, oznaburg, or other type of woven material. When this fabric is again laminated to remain stable, it will usually resist the tendency to develop wrinkles as a result of expansion or contraction. Only supported vinyl is used on quality partitions.

Include the following paragraph if supported fabric is desired.

Partition shall consist of liquid vinyl laminated to a fabric backing.

NOTE: If supported vinyl is not used, select one of the following or add a paragraph, as required.

Accordion-Folding Partitions shall be [wood veneer] [high-pressure plastic laminate] [vinyl laminate].

Partition width shall be [150] [200] [1350] millimeter [6] [8] [54] inches.

Weight, color, and texture of partitions shall conform to the approved sample.

NOTE: Flame-spread class A rating 0 to 25 is generally standard with accordion-folding partition covers and is normally required by code. However, revise the classification if a different local rating is required.

Partitions shall have a Class A flame spread rating when tested in accordance with ASTM E 84.

NOTE: The following paragraphs are applicable to the panel core of solid-panel accordion folding partitions.

Select one of the following fire-hazard classifications as required by local codes.

Maximum limit of fire-hazard classification shall be Class [A] [B] [C] rating in accordance with ASTM E 84.

Flame spread, fuel-contributed, and smoke-developed limits shall comply with local code requirements.

NOTE: Indicate a rating based on predetermined design requirements for sound isolation. Verify that the STC rating is based on the same test

opening. Most acoustically rated partitions are in the 35 to 45 range; however, adjust the following rating to fit the design requirements.

Minimum sound transmission classification (STC) shall be 35 in accordance with ASTM E 90 on large-scale test openings.

2.2 INTERIOR FRAME WORK

NOTE: Pantograph movement consists of a series of rigid links or straight arms in a parallelogram form to duplicate in the same, larger, or smaller form the action of a given point and its relationship to a fixed point to ensure symmetry of the folding action or evenness of fold. Pantographs form the skeletal system of the folding partitions and may be horizontal or vertical.

Steel members shall be arranged to provide horizontal pantograph movement.

2.3 SUSPENSION SYSTEM

NOTE: Track provides the overhead support of folding partitions and is structured of steel or aluminum of varying dimensions to house the carriers that support the partition. It may provide single or dual rails to accommodate the carrier system. Track structure is attached to the header to support the guide and stabilize the travel of the partition across the face of the opening.

Suspension system shall consist of approved steel or aluminum track and trolleys designed to support the weight of the partition as recommended by the manufacturer.

NOTE: Include the following paragraph if it is required for subchannels for flush acoustical-tile or plaster ceiling construction.

Subchannel shall be approved, formed, cold-rolled steel or extruded aluminum compatible with the ceiling construction intended for the project.

NOTE: Self-supported structural system consists of an overhead truss or beam with an integral track on two end columns. It is convenient for adding folding partitions in remodeling work.

Structural system shall be self-supporting.

2.4 FINISH HARDWARE

NOTE: Closure devices can be the usual mechanical
draw latch with a touch bar or thumb lever, magnetic
latch, and strike or cremone bolt.

Pull bar, closure device, screws, and installation hardware shall be the manufacturer's approved standard for accordion-folding partitions furnished.

Finish of exposed hardware shall be as selected from the manufacturer's standard finish.

NOTE: Specify those items, normally optional, which
are required.

A cylinder keying mechanism is normally specified.
Cylinder must be furnished by the hardware supplier.

Pendant pulls are not required for partitions under
2500 millimeter 8 feet high.

Additional approved hardware shall include [Keying mechanism] [Masterkey
assembly] [Pendant pull] [Tieback] [Cremone or foot-bolt assembly].

2.5 SOUND SEALS

NOTE: Sound seals are required for soundproof or
lightproof partitions.

Sound seals shall consist of vinyl or rubber gaskets, calking at jambs, and sweepstrips at top and bottom.

2.6 CEILING GUARD

NOTE: Include ceiling guards for sound partitions
only.

A ceiling guard consists of a metal structure of
varying gages fastened to a header, generally by
other than the manufacturer, with flathead shingle
nails forming a place in the ceiling for later
reception of the track. It may be equipped with a
wide lip on one or both edges flush with the ceiling
to offer a surface for contact of
accordion-partition sweepstrips to prevent damage to
the acoustical-ceiling surface by friction of the
sweepstrips. It may be designed to relieve the
friction action of the sweepstrips against the
ceiling for ease of operation. It guards or
preserves the ceiling.

Partitions shall be furnished with ceiling guards or integral track and ceiling guards as recommended by the manufacturer.

2.7 MEETING POSTS

NOTE: Meeting posts are furnished for multiple partition meeting points or as an intermediate meeting for two partitions.

Select one of the following for meeting posts.

Meeting posts shall be furnished for multiple-partition meeting points.

Meeting posts shall be furnished for an intermediate meeting point of two partitions.

2.8 JAMB PANELS

NOTE: For an accordion partition stored in a pocket where it is difficult to anchor at the rear of the pocket, a false jamb usually consisting of a vinyl-covered plywood board equipped with carriers and fastened to the anchor post is furnished. When the partition is pulled out of the pocket, the sliding jamb board moves forward until it contacts stops at the face of the pocket. If an acoustical door or partition is furnished, the sliding jamb board must be treated with an equal amount of mass, weight, and seal to equal the acoustical performance of the partition or it will represent a flanking path for the escape of sound.

Include the following paragraph for pocket-type applications.

Sliding jamb panels shall be furnished to match partitions.

2.9 SWITCHES

NOTE: Select one of the following for switch type. Switches are a part of the track system and consist generally of three types:

Crossover - this switch pivots a small section of track to allow folding-partition traffic to cross a given point in either direction when such directions are opposed at a 90-degree angle.

Glides - these represent a versatility in the accordion-partition track system and allow the travel of the partition to be diverted by means of curves to the left or to the right from a straight section of track.

Pivot - this switch pivots a section of track and a section of the partition at 90 degrees from the straight run, allowing for storage of the partition parallel to the wall or for use in an alternate position adjacent to or remote from the normal position of the partition.

Switches shall be the [pivot] [glide] [crossover] type.

2.10 ROLLING POST

NOTE: A rolling post is an optional item on an accordion partition. If action is desired at both ends of the partition for latching or movement, the anchor post is substituted by a rolling post for remote storage, pivot action, alternative location use, or dual latching.

Include the following paragraph if rolling posts are desired. (Rolling posts may also be called double-end posts.)

Partitions shall be furnished with rolling posts.

2.11 LEAD POST AIR HOLES

NOTE: A lead post is an integral part of the frame of any accordion partition. It houses the latching devices and lead carriers and effects a closure at the jamb when supplemented by a jamb molding. Its counterpart on the opposite end of the partition would be an anchor post used to fasten the partition to the anchor jamb. Lead post is the action end of the partition and contains the pulling devices for the operation of that partition.

Lead post shall have air-release holes.

2.12 PULL-IN LATCH

NOTE: A pull-in latch may be included for partitions over 2500 millimeter 8 feet high, for closing and as a sound seal.

Partitions shall be furnished with approved pull-in latches.

2.13 ELECTRIC OPERATOR

NOTE: Operators are manufacturers' standard accessory items, and size and capacity are determined by the manufacturer for the weight of

that particular partition.

Size of the electric operator shall be that recommended by manufacturer and shall be designed for the size and weight of the partition.

Operator shall have [cable] [chain] drive.

Electrical characteristics of the unit shall be as indicated.

2.14 PRODUCT INFORMATION

Three samples of each Fabric, not less than 300 millimeter 12-inches square, of each color, texture, and pattern shall be submitted.

Three samples of each Switches used on the project shall be submitted for approval.

Three pieces of Track, 200 millimeter 8-inches long shall be submitted.

Three of each Trolley Assemblies, including switches shall be submitted.

Approved samples may be installed in the work provided they are properly identified.

PART 3 EXECUTION

3.1 EXISTING WORK

Openings scheduled to receive accordion-folding partitions shall be checked by the Contractor for correct dimensions and squareness and shall be plumb.

Installation of folding partitions shall not start until openings conform to specification requirements.

3.2 INSTALLATION

Installation and operation of the folding partition and its hardware shall be checked for the following:

[A proper seal for sound or light when partition is closed]

[Partition does not drag or bind in its track or on the finished floor, and the clearance is as recommended by the manufacturer for the type of partition installed.]

[Proper direction of travel during operation is as indicated on the drawings]

[Proper fit, plumb, and square within the opening]

[Smooth operation; latch engages and holds the partition in an extended or closed position]

[Effectiveness of security devices]

[Proper track joints]

If the partition fails to pass inspection, defective parts shall be

replaced at the Contractor's cost.

Tracks shall be level and fastened securely to the header as recommended by the manufacturer.

Partitions shall be adjusted and left in smooth operating condition without binding.

3.3 ACCEPTANCE PROVISIONS

3.3.1 Repairing

Damaged and unacceptable portions of completed work shall be removed and replaced with new work at no additional cost to the Government.

3.3.2 Cleaning

Surfaces of the work, and adjacent surfaces soiled as a result of the work, shall be cleaned in an approved manner. Equipment, surplus materials, and rubbish from the work shall be removed from the site.

-- End of Section --