

General Specification for
Demountable Wall Systems

Scope. This description covers floor to ceiling demountable wall systems designed to provide enclosed office spaces in an open plan environment. The wall systems consist of connecting, structural wall panels with provisions for mounting furniture systems components and can be modified or reconfigured to meet changing office requirements. Furniture components are not included.

Salient characteristics. The requirements contained herein are the minimum required features to be accepted under this contract. The manufacturer may offer additional products to enhance the function of the wall system. Acceptance of products not specified herein is at the contracting officer's option.

General. All products furnished under this description shall be of a design and materials to withstand hard daily use with a minimum of maintenance and repair. Demountable wall panels shall be factory assembled into complete, individual units. Wall panels shall be available in solid faced, and door panels. Glazed (tempered safety glass) or open frame panels for glazing may be offered.

Installation. Demountable wall panels shall allow installation over a finished floor, tile or carpet, without damage to the floor. Panels shall interlock with adjacent panels or use internal vertical supports to ensure rigid joints. The system shall allow two, three and four way connections. All fasteners shall be concealed. The interface between panels, the ceiling and the building walls shall be provided with sound and light seals. The panel base and top shall adjust to accommodate floor and ceiling irregularities.

Flammability. Solid faced demountable wall panels shall have a maximum smoke development rating of 450 and a maximum flame spread rating of 25 and shall be rated as Class A (0-25 flame spread rating), Class B (26-75 flame spread) or Class C (76-200 flame spread) when tested as specified herein. All product lines offered for GSA contract must include class A rated products and may include Class B and Class C rated products.

Acoustics. Solid faced demountable wall panels shall have a minimum Sound Transmission Class (STC) of 35, when tested as specified herein.

Electrical distribution. The wall panels shall have wireways to provide for the distribution of electrical and communication wiring and which allow for the hard-wiring of electrical components. In addition, electrical power systems with UL-listed components may be offered. Ports for telephone and communication cables shall also be provided. Receptacle, switch, and telecommunication plates shall be available.

Furniture systems slotted standards. The wall panels shall include slotted standards for mounting furniture systems components. The standards shall allow attachment of components at varying heights on both sides of the wall.

Test Requirements. The demountable wall system shall be tested in accordance with the requirements listed below. Representative sample, i.e., worst case testing, is not acceptable for flammability or acoustics.

Flammability. The fire test shall be conducted in accordance with American Society for Testing and Materials (ASTM) Standard E-84, Standard Method of Test for Surface Burning Characteristics of Building Materials, by an independent laboratory, the vendors ISO Guide 25 self certified testing facility, or the vendors ISO 9001 registered facility. The test report shall be not more than one year old at the time set for receipt of offers, and during the term of the contract new testing shall be conducted every three years if the demountable wall construction has not changed. If wall construction is changed new fire tests are required. The test report must state the demountable wall series or model number tested and must state in detail the construction of the demountable wall tested. The test shall be conducted on the entire assembled unit (the complete core, adhesive, decorative fabric, frame and joining components). The test must be conducted on each different fabric, and interior construction. However, additional fabrics or sheet-film finishes not exceeding 0.89 mm in thickness may be offered for inclusion under the contract without additional ASTM E-84 testing provided the following conditions are met: (1) An ASTM E-84 test was conducted on the complete demountable wall panel, which is acceptable to GSA. (2) The fabric or sheet-film finish not exceeding 0.89 mm in thickness on the demountable wall panel tested under E-84 was tested and complies with the National Fire Protection Association (NFPA) Standard No. 701. (3) The additional fabrics or sheet-film finishes offered were tested and comply with NFPA No. 701. (4) There are no other changes in the demountable wall panel construction.

Alternatively, testing may be conducted in accordance with Underwriters Laboratories (UL) Standard No. 723 or National Fire Protection Association (NFPA) Standard No. 255.

Acoustics. Sound transmission class (STC) shall be determined by testing in accordance with ASTM Standard E-90, "Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements" and classification in accordance with ASTM Standard E-413, "Classification for Rating Sound Insulation". The test report shall be not more than three years old at the time set for receipt of offers, and during the term of the contract new testing shall be conducted every five years if the demountable wall panel construction has not changed. If construction is changed a new acoustical test is required

Mechanical strength. Demountable wall panels shall meet the requirements of American National Standard ANSI/BIFMA X5.6-2003 or latest revision for panel mechanical strength.

Notes.

ANSI/BIFMA. Standards are available from the American National Standards Institute, 11 West 42nd Street, New York, NY 10036. (212) 642-4900

ASTM. Standards are available from the American Society for Testing and Materials, 100 Barr Harbor Dr., West Conshohocken, PA 19428-2925. (610) 832-9585

NFPA. Standards are available from the National Fire Protection Association, 11 Tracy Drive, Avon, MA 02322. (800) 344-3555

UL. Standards are available from Underwriters Laboratories, Inc., 333 Pfingston Rd., Northbrook, IL 60062-2096. (708) 272-8800