**Specification**

**Technical description of an operable glass partition, sound-insulating, with automatic actuating unit**

Wall elements to be manually operable; seals automatically extended with the “abotronic” actuator system.

Partition system comprising independently operable panels of torsionally stiff construction. Clad on both faces with toughened safety glass (TSG) (partially pre-stressed glass (PPSG) and non-tempered glass types not permitted).

Each panel fitted at the top at one central or two spaced points with a maintenance-free roller carrier having track rollers mounted in ball bearings for smooth operation in ceiling-mounted tracks. When closed, the partition to give the impression of being a solid wall.

Partition manufactured in accordance with a binding quality management process in accordance with DIN EN ISO 9001, with all verification documentation available for examination if required.

Construction

Frame to consist of lateral profiles of max. 33mm thick. Top and bottom profile 33mm, not exceeding 125mm with operating electronics.

Maximum thickness of panel 100mm. Electronic panel interconnection by contact switches. Plug-in-type connections not permitted due to elevated susceptibility to malfunction.

To ensure fast closing and opening of the partition, positioning of panels including telescopic panel not to take longer than seven seconds per panel.

In the event of a power failure or other disruption, emergency unlocking by user to be possible at all times. With a sound reduction value of Rw P 54 dB, weight per unit area not to exceed 50 kg per m2.

Extendable seals

Extendable and retractable, spring-mounted double-lip seals for horizontal panel sealing. Contact pressure of the top and bottom seals achieved by a maintenance-free, multi-link spindle mechanism, or bevel gear. Seals pressed against the floor and ceiling track, serving the dual purpose of both sealing the partition and compensating for floor unevenness.

Seal assemblies of double-shell, black aluminium profile construction, designed for maximum performance in terms of sound insulation and stability. Maximum possible seal extension 40mm, minimum contact pressure 1500 N, rising to 3000 N depending on the seal extension.

Top and bottom seals with specially shaped end pieces of PE-LD and additional hollow-chamber gaskets.

Telescopic panel

Closed partition to be completed by a sealing element in the form of a telescopic panel. The extension stroke of the telescopic thrust unit, mounted in a universal (ball) joint, must be at least 120mm. This stabilises the partition in the horizontal direction while also compensating for possible structurally related length differences and vertical deviations. The extension stroke must be adjustable in order to regulate the contact pressure from 0 to 1,000 N. The telescopic section must be designed with an outboard/flush-closing thrust unit.

Telescopic section and the seals to be operated by means of a crank inserted in a hole to engage with a common, maintenance-free multi-link spindle mechanism with bevel gear unit.

Panel interconnection

Panels provided with interlocking end profiles to provide sealed vertical interlock.

Profiles to be of a concave/convex mating pattern. To ensure optimum sealing, insertion depth should be at least 30mm. Insertion depth to ensure self-centering of the panels as they are brought together and, if there is any ceiling flexion, vertical seal to remain intact.

Auxiliary devices such as magnetic strips are not permissible.

Panel suspension

Each panel to be supplied with one or two maintenance-free roller carriers (single-point central suspension or two-point suspension) carriers running in the ceiling tracks.

Suspension of the panels from the roller carriers to be by means of universal (ball) joint-type connector pins. Ceiling tracks and the roller carriers to be maintenance-free.

Ceiling tracks of aluminium or steel may be installed with or without support angle brackets.

Tracks

Ceiling tracks of aluminium or steel profiles, depending on the weight of the panels. Dimensions to be in accordance with structural requirements.

Parking zones of the track systems to be pre-fabricated and delivered complete as a single assembly in order to preclude dimensional deviations during installation.

Panel adjustment

To compensate for structural height differences, operable partition to be height-adjustable. Height adjustment to be readily possible at each panel separately from the outside without removing the panel cladding or removing the panels themselves. Height adjustment mechanism to be automatically secured and protected against accidental operation.

Installation of ceiling track(s)

Ceiling track(s) to be provided and fixed in place by bidder. Installation work to be carried out in accordance with the requirements of DIN 18 800. Steel suspension assemblies to be adjustable in order to compensate for possible subsequent ceiling sag. All materials used to be installed with appropriate corrosion protection means already provided.

Sound baffle (track boxing)Bidder is to supply a sound baffle boxing arrangement above the ceiling track running along the partition axis. The baffle must correspond to the requisite sound reduction value. It should be fitted to the ceiling track and the adjacent components.

Pass door panel, single-leaf

One partition panel to be supplied with an integrated pass door. Door leaf to have a clear passage height of 2.03m and a clear passage width of 0.85m, or optionally 1.00m.

Due to the overall width of the panel, the single-leaf pass door panel should be designed as a single-post door.

Door leaf to be equipped at the bottom with an automatic extending seal of adjustable extension stroke.

When operating wall panel, door leaf to be automatically secured against opening.

Door leaf to be provided with ball bearing-type hinges, a mortise lock and recessed pull grips; lock to be prepierced for europrofile cylinder (PZ type) by others.

Pass door panel, double-leaf

Two wall panels to be provided with integrated pass doors to form a double-leaf door. One post between the two door leaves will not be acceptable. Door leaves to have a clear passage height of 2.03m and a clear passage width of 0.85m, or optionally 1.00m per door leaf.

Door leaves to be equipped at the bottom with an automatically extending seal with an adjustable extension stroke.

When operating wall panels, door leaves to be automatically secured against opening.

The door leaves must be provided with ball bearing-type hinges.

The active leaf to be provided with a mortise lock and recessed pull grips; lock to be prepierced for europrofile cylinder (PZ type) by others.

Inactive leaf to be provided on the inside with an emergency unlocking mechanism. For this, an identical recess pull grip as that of the active leaf must be provided at least 1.50m above finished floor level (FFL).

Full-height pass door

One wall panel to be provided in the form of a fixed full-height pass door. Door leaf extending over the full height of the panel to be equipped with automatically extending top and bottom seals with an adjustable extension stroke.

Said panel to be supplied with ball bearing type hinges, a mortise lock and recessed pull grips; lock to be prepierced for europrofile cylinder (PZ type) by others.

Test certificates

Certificates confirming testing and compliance in accordance with the following codes and standards must be provided in respect of the operable partition:

* TÜV test to DIN 31000 and third-party production surveillance
* Ball impact resistance to DIN 18032
* Sound insulation according to DIN 20 140-3
* SeeBG Certificate B-30 for vessels
* Quality certificate to DIN EN ISO 9001:2008

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| --- | --- | --- |
|  | Unit price EUR | total EUR |
|  | .................... | .................... |

Quantity ...................................

Product type abo]clear

Operation type semi automatic

Offered product

Type ...................................

Clear width

Clear height

Panel thickness

Quantity of panels

Splitting of panels       Plain panel(s)

      Telescopic panel

inboard thrust

flush-type thrust

      Pass door panel

1 wing, 1 post

2 wings

handle

PVC

Stainless steel

Aluminium

      Door abutment panel

      Fixed full-height door

      Corner panel

Sound insulation

Surface

Profiles  wrap around

inset

Fire protection  B2 normal flammable

B1 heavy flammable

Track  Steel track

98 mm x 66 mm  140 mm x 80 mm

Aluminium track

100 mm x 85 mm  152 mm x 85 mm

with support angle

Coat  RAL arbitrary

RAL 9010 or 9006

Suspension  1-point-suspension

2-point-suspension

Parking area  Easy-stack system

Standard stacking arrangement

Single-point suspension

Suspension

Enclosure

Edditional costs       .................... ....................