

**CREATOR
OF MOBILE
SPACE SINCE
1960**



ALGAFLEX
MOVABLE WALLS

www.algaflex.com

Since more than 50 years, ALGAFLEX® is the leader in the French Movable Wall market, and ensures, for each project, the entire process of implementation of your works.

• COMMERCIAL

A quantity surveyor team, in direct link with a field salesman in each geographical area.

• CONCEPTION

Realized by our own Design Office, using the latest software of CAO, both in 2D and 3D.

• MANUFACTURING

Entirely realized in our workshops.

• SITE SUPERVISION

Ensured by a site manager, specifically dedicated for each work site.

• IMPLEMENTATION

Installation teams throughout France and a logistical autonomy thanks to our own means of transport and storage.

• SAV

Several teams are specifically dedicated to the maintenance of our realizations.

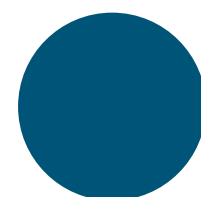
Through this process, ALGAFLEX® guarantees the reliability of its realizations, in accordance with the deadlines and constraints related to security and the environment.



ALGAFLEX in numbers, it is

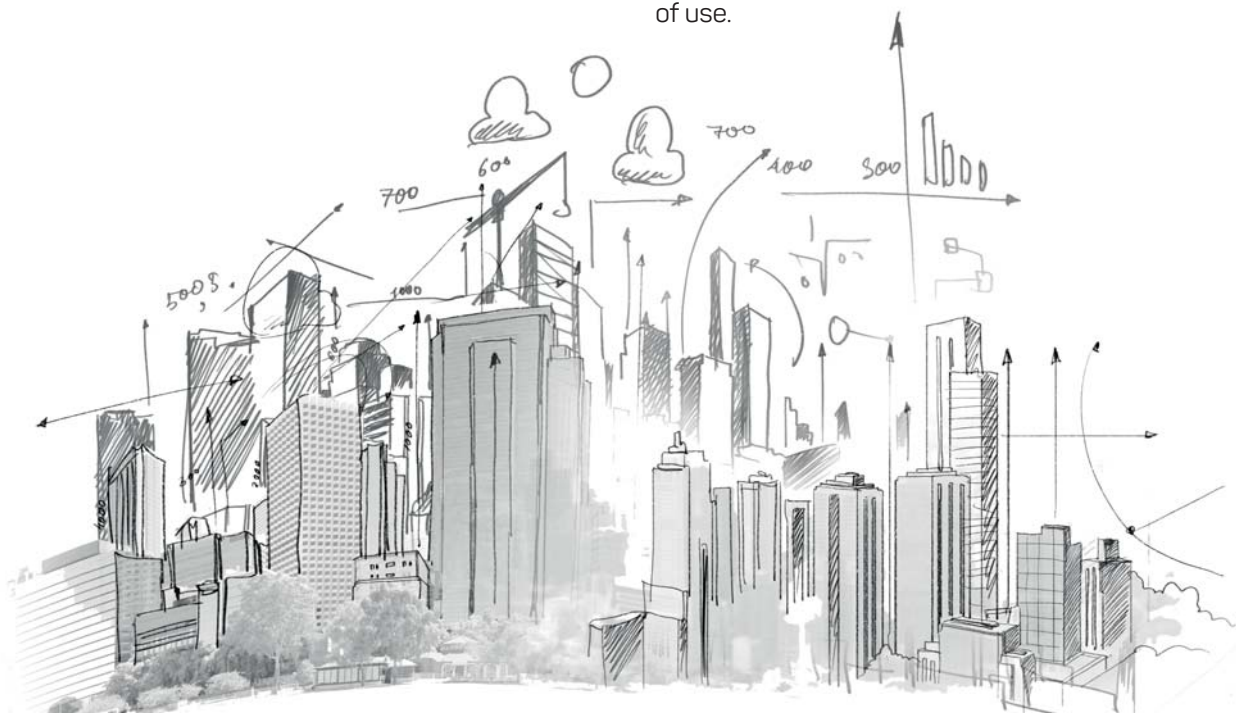
1000 sites and

11000 panels made per year



Certified ISO 9001 and engaged in an effort to improve quality and performance of its products, ALGAFLEX® has all the professional guarantees and test reports (Acoustical, Fire Reaction, and Resistance), delivered by official and independent agencies.

ALGAFLEX® Movable Walls are entirely custom made, offering flexibility in design, installation speed and ease of use.



PROFESSIONAL GUARANTEES

QUALITY AND PERFORMANCE GUARANTEES, SUPPORTED BY CERTIFICATES

Among ALGAFLEX®, tests, trials and controls are not enough. Our company is committed to each of its customers through a series of exclusive guarantees :

- National professional qualification : 4232
Manufacturing and installation of movable partitions QUALIBAT Certificate n° 02112.
- SNFA member (national manufacturer's union).
- 5-year ALGAFLEX® warranty for parts and labor.
- Exclusive ALGAFLEX® Service After Sales, in the form of a maintenance contract.
- Certified acoustical performance : CEBTP and DECIBEL France.
- Certified fire resistance : EFFECTIS.
- Certified fire reaction : LNE.
- Certified mechanical resistance, reliability, ease of handling : CERFF - LNE - CEBTP.



GLOSSARY

CEBTP : Experimental study and research center of Construction and Public Works. CEBTP conducts tests, trials, theoretical and experimental studies of controls in lab, for all areas of Construction and Public Works.

WHAT GUARANTEES THE CERTIFICATE "CER.F.F. - MOVABLE PARTITIONS" :

Certification Association for windows, facade, partition and joinery.

This certificate is only granted to partitions which have met the criteria defined by the specifications, concerning their mobility, their level of sound reduction and their stability.

An official test report is always enclosed with the "CER.F.F. - Movable Partitions". It allows the user to judge the actual performances of a partition or to make a choice among different models, according to the criteria sought.

The "CER.F.F. - Movable Partitions" certificate guarantees the user that any partition awarded this certificate has been thoroughly tested and conforms to professional standards in terms of mobility, sound reduction, and dimensional or mechanical stability.

CEBTP - CER.F.F. management is regulated by a joint commission in which :

Government of Equipment, Housing, Spatial Planning and Transport - National Education - National Federation of Promoters and Contractors - National Union of low-income Housing Federations - Order of Architects - AFNOR - APAVE-CEP - SOCOTEC - VERITAS - CEBTP.

DECIBEL France : 35 years of experience in industrial, tertiary and environmental acoustics, with a laboratory complying with European standards.

EFFECTIS : Laboratory certified by the Ministry of the Interior, the Maritime Secretary of State, and ADSAIRD regarding fire issues.

LNE : National Test Laboratory.

Static mechanical tests - Equipment testing - Static tests.

QUALIBAT QUALIFICATION : QUALIBAT (Professional Organization of Building Qualification and Certification)

A company that has mastered the technique of partitioning volumes, justified by sufficiently numerous and meaningful references, with its own design office to design all projects, and manufacturing most of the elements constituting these partitions in its own workshops, while providing installation and subsequent alterations in accordance with the rules of the art, in particular, professional recommendations.

Movable Partition Qualification (movable walls) certificate no. 02112.





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THE RANGE

TECHNICAL DATA							
SÉRIFLEX 45	CLASSIC	STYLIST	SILENCE	FIREWALL Ei60/Ei90	LUMIÈRE	GLASSICAL	ZÉPHYR
	49	50 / 54 / 55	59	51	46	/	36
	46	46 / 52 / 53	57	49	45	/	32
	6000	12000	6000	4500	3000	3000	3000
Panel Thickness (mm)	100	119	151	141	119	40	100
Weight Starting at (in Kg/m²)	44	48 (for sound reduction of Rw 50 dB)	72	73	60		18
* Standard Panel of 3 000 x 1 200 mm. Depending of specificities of the project, our Design Office will adjust the measurements.							
FINISHING / COATING							
Laminate ALGAFLEX Range	✓	✓	✓	✓			✓
Melamine ALGAFLEX Range	✓	✓	✓				
Range Laminate PRINT COLOURS	✓	✓	✓	✓			
Oberflex	✓	✓	✓	✓			
Laminate all brands	✓	✓	✓	✓			
Tempered or laminate Glass					✓	✓	✓
POSSIBLE OPTIONS							
Lacquering profile	✓	✓	✓	✓	✓	✓	✓
Oculus	✓	✓					
Firewall Ei30		✓	✓				
Murauto		✓	✓	✓	✓		
Digital Printing	✓	✓	✓	✓	✓	✓	✓
Serigraphy					✓	✓	✓
Manual or automatic Blind					✓		

THE MOVABLE WALL

A Movable Wall is one in which the components can be moved within a system that is affixed to the building structure (tracks). The main components (panels) of a Movable Wall are easily manipulated and allow instantaneous separation or joining of contiguous spaces.

FROM THE LARGEST TO THE SMALLEST, INCREASING AVAILABLE SPACE.

By moving walls, it is allowing your business to all opportunities of flexible space. With minimal intervention and virtually no maintenance, everything becomes possible and within a matter of minutes you can receive 30 or 300 people. By organizing as many meeting rooms and reception areas as required, at the same time, you can respond to the most diverse demands and increase your room rental opportunities. Our Movable Walls offer a potential as much richer than it is based on a technical reliability acoustic performance and recognized aesthetic qualities.

FROM ONE USE TO ANOTHER, VERSATILITY CHANGES THE APPEARANCE OF YOUR SPACE.

Thanks to a simple and reliable installation process that is solid and lasting, the most varied activities and the most diverse communities can be accommodated : from family gathering to sports training, from community meetings to local festivals, from exhibitions to performances.



THE PANEL

SIMPLICITY OF MOVEMENT

ALGAFLEX® Movable Walls panels can be manually moved without much effort, thanks to a unique guiding system that eliminates any effort in motion. Movement can be automated for an optimum handling and comfort. Just with a 1/3 turn of a key that locks or unlocks the top and bottom telescopic seals simultaneously or engages the motorized locking system (see our product range on pages 10 to 33).

The telescopic seals ensure the sound reduction and the mechanical locking without any track on the floor.

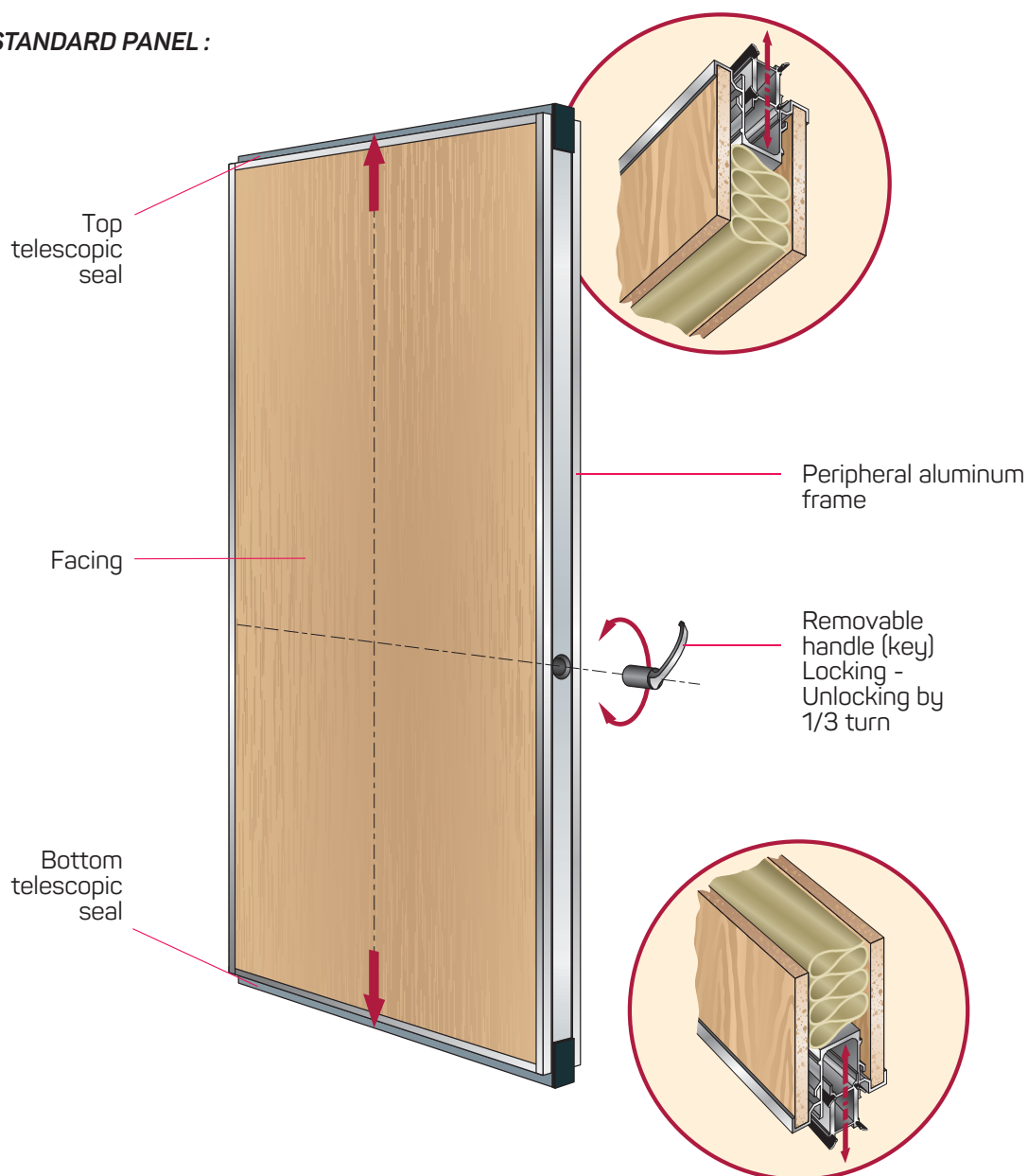
TECHNICAL VALUE AND AESTHETIC

ALGAFLEX® Movable Walls offer under-track heights of up to 12m and are compliant with all acoustic insulation and fire resistance requirements, and are as stylish as they are effective.

We offer a wide range of standard surface finishes, from melamine and laminate to other options, subject to technical feasibility: natural wood veneer, lacquered faces, mirrors, lacquered or perforated sheeting, etc...

Aluminum profiles are available with natural anodizing as a standard feature, and in all anodized colors or RAL thermo-lacquers for special orders.

STANDARD PANEL :

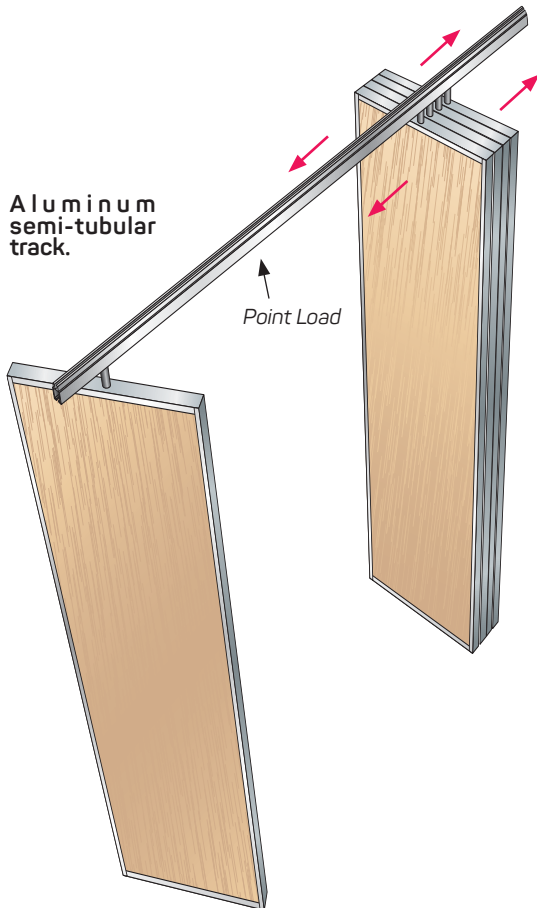


THE TRACK

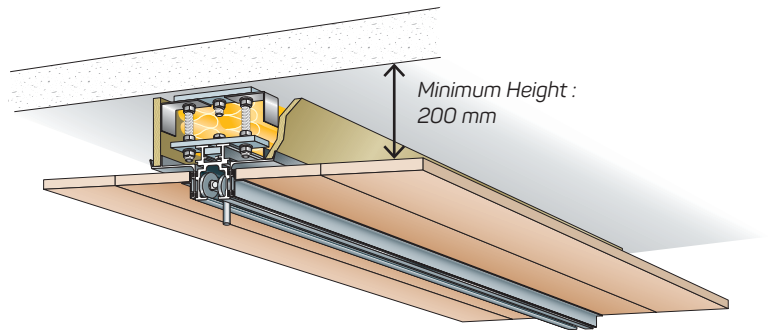
MONODIRECTIONAL **CONCEPT**

Principle: central suspended panels, sliding along a guiding top track (no floor track).

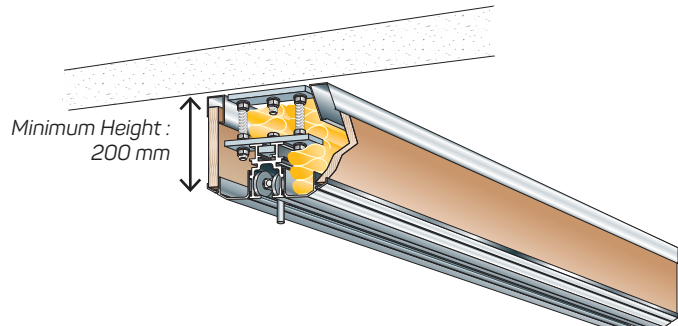
This system allows a quick manipulation. The track is 25mm under the suspended ceiling to avoid any damage during the movement of the panels.



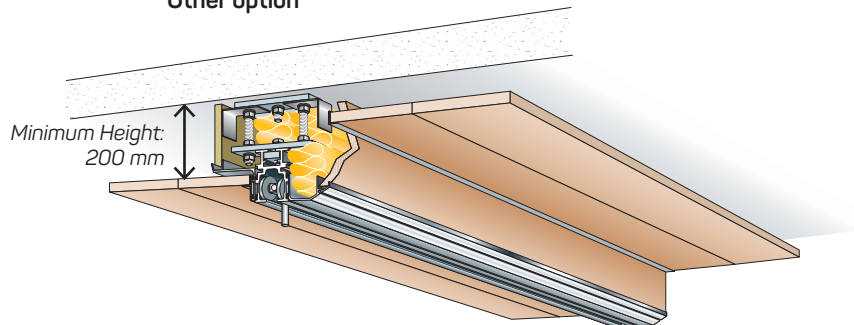
Track built into a suspended ceiling
(with soundproofing)



Encased Track



Other option

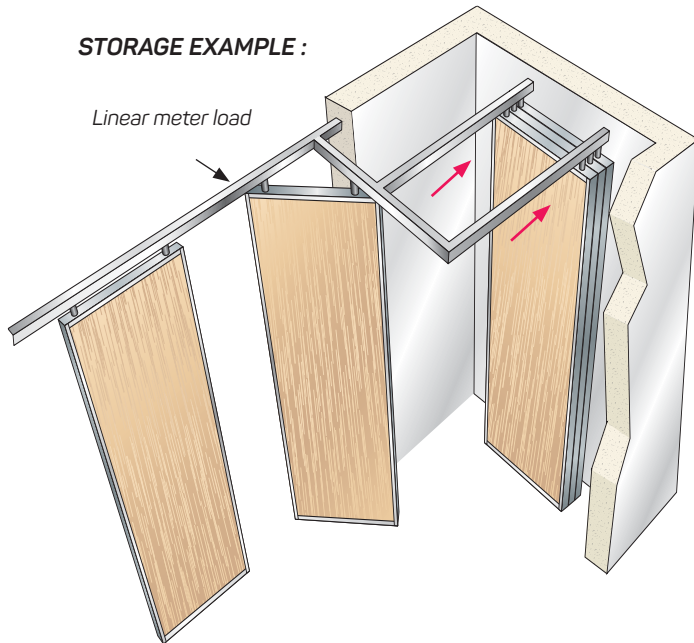


These installation methods are provided as examples only and are not contractually binding. Installation methods must be specifically calculated for each case on each movable wall. Furthermore, they must be validated and checked by the control office approved by the competent authorities.

MULTIDIRECTIONAL **CONCEPT**

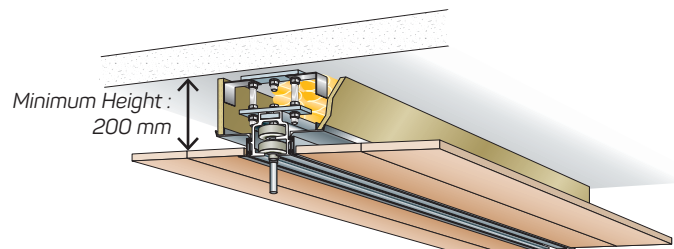
Principle : independent suspended panels from 2 double-roller trolleys sliding in a top track (no floor track), avoiding any swaying that may damage the track, suspended ceiling or the floor.

STORAGE EXAMPLE :

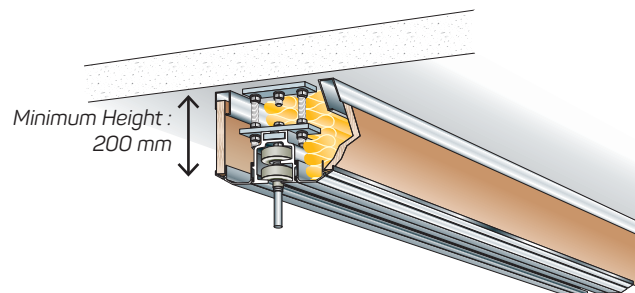


Aluminum semi-tubular track with double roller lips.
Track intersections enable any configuration, direction changes and multiple storage options without the use of turntables or switches.

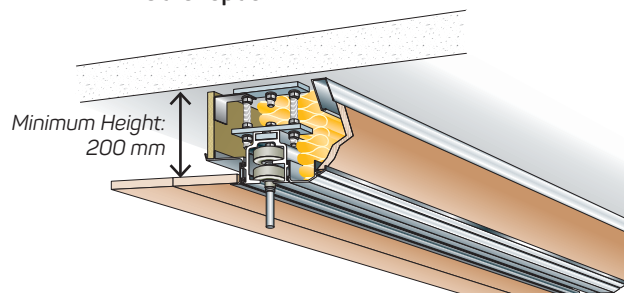
Track built into a suspended ceiling (with soundproofing)



Encased Track



Other option



These installation methods are provided as examples only and are not contractually binding. Installation methods must be specifically calculated for each case on each movable wall. Furthermore, they must be validated and checked by the control office approved by the competent authorities.

SÉRIFLEX 45



Effective and stylish, SÉRIFLEX 45® meets all Movable Wall requirements within a controlled budget, ideal for restaurant dining rooms, play areas and quiet rooms in daycares and nursery schools, cafeterias...

PRINCIPLE

Custom-made acoustic movable wall system. Sliding panels in a top track without any floor guidance.

ACOUSTIC

The SÉRIFLEX 45 offers an sound reduction of R_w 45 dB.

SILENT AND EASY TO MOVE

ALGAFLEX assures an exclusive system : Polymer-coated, selflubricating, wear-resistant ball bearing trolleys (Delrin).

TECHNICAL RELIABILITY

Our SÉRIFLEX 45 walls have undergone the most rigorous endurance and mechanical resistance tests, in a specific lab or in ALGAFLEX's own Test Center.

5-year parts and labor warranty.

IMPLEMENTATION

Panels can be fixed by a central suspension (MONODIRECTIONAL) composed of 4 self-lubricating and highly resistant polymer rollers ensuring a smooth and silent movement without friction.

Panels can also be fixed by 2 trolleys (MULTIDIRECTIONAL) with self-lubricating polymer rollers with double direction of rotation ensuring smooth and silent movement without friction.

For mono panels greater than 4 500mm ask for technical advice, please consult us for study.

QUICK TO INSTALL

Top and bottom telescopic seals are locked in place with just 1/3 of a turn of a removable handle.

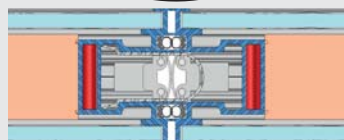
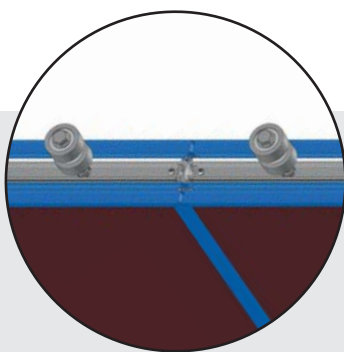
FACE FINISHING

- Melamine Laminate ALGAFLEX range.
- Laminate PRINT colours ALGAFLEX range.
- Oberflex ALGAFLEX range.
- Laminate all brands.

OPTIONS

- Lacquering profile
- Oculus.

JOINING PANELS



	Panel Maximum Width	Custom made depending on finishing
	Weight starting at *	44 Kg /m ²
	Panel Maximum Height	6 000 mm
	Sound Reduction	R_w 45 dB / R_a 43 dB
	Thickness	100 mm
	Fire Reaction	Meets Standard AM14

*Weight for panels of 3000 x 1200 mm

* Depending on the specificities of the project, our Design Office will adapt the measurements.

CLASSIC



Perfect answer for space optimization in multifunctional rooms, cultural centers, schools... The CLASSIC® Movable Wall is a sure bet : durable, reliable, and functional.

PRINCIPLE

Custom-made acoustic movable wall system. Sliding panels in a top track without any floor guidance.

ACOUSTIC

Le CLASSIC offre un affaiblissement acoustique R_w de 49 dB.

SILENT AND EASY TO MOVE

ALGAFLEX assures an exclusive system : Polymer-coated, selflubricating, wear-resistant ball bearing trolleys (Delrin).

TECHNICAL RELIABILITY

Our CLASSIC walls have undergone the most rigorous endurance and mechanical resistance tests, in a specific lab or in ALGAFLEX's own Test Center.

5-year parts and labor warranty.

IMPLEMENTATION

Panels can be fixed by a central suspension (MONODIRECTIONAL) composed of 4 self-lubricating and highly resistant polymer rollers ensuring a smooth and silent movement without friction.

Panels can also be fixed by 2 trolleys (MULTIDIRECTIONAL) with self-lubricating polymer rollers with double direction of rotation ensuring smooth and silent movement without friction.

For mono panels greater than 4 500mm ask for technical advice, please consult us for study.

QUICK TO INSTALL

Top and bottom telescopic seals are locked in place with just 1/3 of a turn of a removable handle.

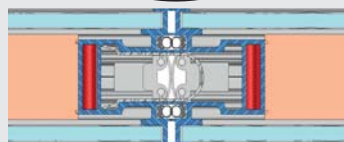
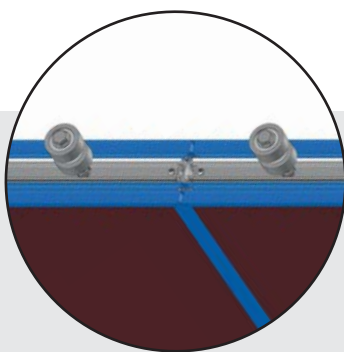
FACE FINISHING

- Melamine Laminate ALGAFLEX range.
- Laminate PRINT colours ALGAFLEX range.
- Oberflex ALGAFLEX range.
- Laminate all brands.

OPTIONS

- Lacquering profile
- Oculus.

JOINING PANELS



	Panel Maximum Width	Custom made depending on finishing
	Weight starting at *	48 Kg /m ²
	Panel Maximum Height	6 000 mm
	Sound Reduction	R_w 49 dB / R_a 46 dB
	Thickness	100 mm
	Fire Reaction	Meets Standard AM14

*Weight for panels of 3000 x 1200 mm

* Depending on the specificities of the project, our Design Office will adapt the measurements.

STYLIST



Thanks to a structure that completely conceals the edges and seals, STYLIST adapts and blends into the surroundings wherever refinement and calm are required: senior management office, reception halls, conference rooms....

PRINCIPLE

Custom-made acoustic movable wall system. Sliding panels in a top track without any floor guidance.

ACOUSTIC

Le STYLIST offre un affaiblissement acoustique R_w de 50 à 55 dB.

SILENT AND EASY TO MOVE

ALGAFLEX assures an exclusive system : Polymer-coated, selflubricating, wear-resistant ball bearing trolleys (Delrin).

TECHNICAL RELIABILITY

Our STYLIST walls have undergone the most rigorous endurance and mechanical resistance tests, in a specific lab or in ALGAFLEX's own Test Center.
5-year parts and labor warranty.

IMPLEMENTATION

Panels can be fixed by a central suspension (MONODIRECTIONAL) composed of 4 self-lubricating and highly resistant polymer rollers ensuring a smooth and silent movement without friction.

Panels can also be fixed by 2 trolleys (MULTIDIRECTIONAL) with self-lubricating polymer rollers with double direction of rotation ensuring smooth and silent movement without friction.

For mono panels greater than 4 500mm ask for technical advice, please consult us for study.

QUICK TO INSTALL

Top and bottom telescopic seals are locked in place with just 1/3 of a turn of a removable handle.

FACE FINISHING

- Melamine Laminate ALGAFLEX range.
- Laminate PRINT colours ALGAFLEX range.
- Oberflex ALGAFLEX range.
- Laminate all brands.

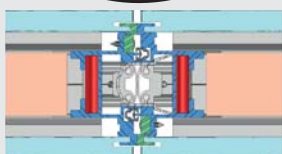
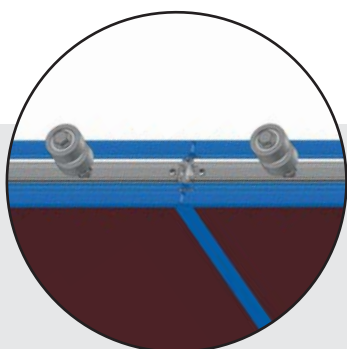


OPTIONS

- Lacquering profile
- Oculus
- Firewall Ei30
- Acoustical correction
- Acoustical insert
- Murauto

*Possibility to combine the STYLIST range with LUMIÈRE panels (upon validation by the Design Office).

JOINING PANELS



	Panel Maximum Width	Custom made depending on finishing
	Weight starting at *	48 Kg /m ²
	Panel Maximum Height	12 000 mm
	Sound Reduction	R_w 50-54-55 dB / R_a 46-52-53 dB
	Thickness	119 mm
	Fire Reaction	Meets Standard AM14

*Weight for panels of 3000 x 1200 mm

* Depending on the specificities of the project, our Design Office will adapt the measurements.



SILENCE

Acoustical perfection in sound insulation. Offering a new level of sound reduction, the SILENCE® Movable Wall combines soundproofing and listening comfort for theaters and concert halls, amphitheaters and the most demanding environments.

PRINCIPLE

Custom-made acoustic movable wall system. Sliding panels in a top track without any floor guidance.

ACOUSTIC

The SILENCE offers a sound reduction of R_w of 59 dB.

SILENT AND EASY TO MOVE

ALGAFLEX assures an exclusive system : Polymer-coated, selflubricating, wear-resistant ball bearing trolleys (Delrin).

TECHNICAL RELIABILITY

Our SILENCE walls have undergone the most rigorous endurance and mechanical resistance tests, in a specific lab or in ALGAFLEX's own Test Center.
5-year parts and labor warranty.

IMPLEMENTATION

Panels can be fixed by a central suspension (MONODIRECTIONAL) composed of 4 self-lubricating and highly resistant polymer rollers ensuring a smooth and silent movement without friction.

Panels can also be fixed by 2 trolleys (MULTIDIRECTIONAL) with self-lubricating polymer rollers with double direction of rotation ensuring smooth and silent movement without friction.

For mono panels greater than 4 500mm ask for technical advice, please consult us for study.

QUICK TO INSTALL

Top and bottom telescopic seals are locked in place with just 1/3 of a turn of a removable handle.

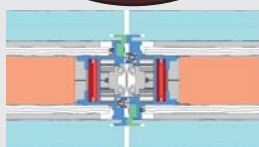
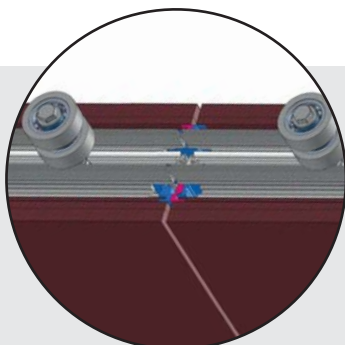
FACE FINISHING

- Melamine Laminate ALGAFLEX range.
- Laminate PRINT colours ALGAFLEX range.
- Oberflex ALGAFLEX range.
- Laminate all brands.

OPTIONS

- Lacquering profile
- Firewall Ei30
- Acoustical Correction
- Murauto.

JOINING PANELS



	Panel Maximum Width	Custom made depending on finishing
	Weight starting at *	72 kg /m ²
	Panel Maximum Height	6 000 mm
	Sound Reduction	R_w 59 dB / R_a 57 dB
	Thickness	151 mm
	Fire Reaction	Meets Standard AM14

*Weight for panels of 3000 x 1200 mm

* Depending on the specificities of the project, our Design Office will adapt the measurements.

LUMIÈRE



Offering both transparency and good acoustical qualities, the LUMIERE Movable Wall is a perfect match for all decors.

PRINCIPLE

Custom-made acoustic movable wall system. Sliding panels in a top track without any floor guidance.

ACOUSTIC

The LUMIÈRE offers a sound reduction R_w of 46 dB.

SILENT AND EASY TO MOVE

ALGAFLEX assures an exclusive system : Polymer-coated, selflubricating, wear-resistant ball bearing trolleys (Delrin).

TECHNICAL RELIABILITY

Our LUMIÈRE walls have undergone the most rigorous endurance and mechanical resistance tests, in a specific lab or in ALGAFLEX's own Test Center.
5-year parts and labor warranty.

IMPLEMENTATION

Panels can also be fixed by 2 trolleys (MULTIDIRECTIONAL) with self-lubricating polymer rollers with double direction of rotation ensuring smooth and silent movement without friction.

QUICK TO INSTALL

Top and bottom telescopic seals are locked in place with just 1/3 of a turn of a removable handle.

FACE FINISHING

· Tempered or laminate Glass.

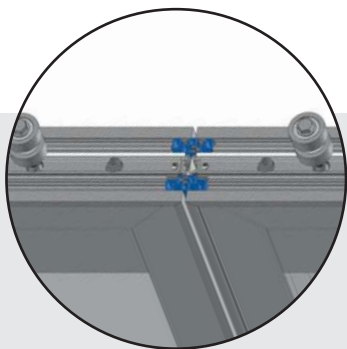
OPTIONS

- Lacquering profile
- Glass with Digital Printing
- Manual or Electric Blind
- Murauto

Panels greater than 3000 mm, consult us



JOINING PANELS



	Panel Maximum Width	Custom made depending on finishing
	Weight starting at *	60 Kg /m²
	Panel MAXimum Height	3 000 mm
	Sound Reduction	46 dB/Ra 45dB
	Thickness	119 mm
	Fire Reaction	Meets Standard AM14

*Weight for panels of 3000 x 1200 mm

* Depending on the specificities of the project, our Design Office will adapt the measurements.

GLASSICAL



The GLASSICAL® Movable Wall integrates with all of your projects with harmony and transparency.



SILENT AND EASY TO MOVE

ALGAFLEX assures an exclusive system : Polymer-coated, selflubricating, wear-resistant ball bearing trolleys (Delrin).

TECHNICAL RELIABILITY

Our GLASSICAL® walls have undergone the most rigorous endurance and mechanical resistance tests, in a specific lab or in ALGAFLEX's own Test Center.
5-year parts and labor warranty.

FACE FINISHING

- Tempered or laminate Glass.

OPTIONS

- Glass with Digital Printing
- Serigraphy.
- Multiple options, consult us



	Panel Maximum Height	3 000 mm
	Panel Width	1234 mm
	Thickness	40 mm
	Fire Reaction	Meets Standard AM14

RÉALISATIONS





LES PANNEAUX TECHNIQUES

ZÉPHYR



INNOVATION
2017
18 kg/m²

Thanks to its conception and lightness, the ZÉPHYR® offers an optimal comfort and adapts to any environment type.

Resistant, reliable, functional, offering an acoustic insulation and a lot of laminate decoration possibilities, the ZÉPHYR® Movable Wall is the obvious answer for all needs of space optimization.

It became a reflex for multipurpose rooms, cultural centers, schools, or homes...

This light product allows to answer to the stresses of the load-bearing structures not adapted to heavy loads.

PRINCIPLE

Custom-made acoustic movable wall system. Sliding panels in a top track without any floor guidance.

ACOUSTIC

The ZÉPHYR offers an acoustic reduction R_w of 36 dB.

SILENT AND EASY TO MOVE

ALGAFLEX assures an exclusive system : Polymer-coated, selflubricating, wear-resistant ball bearing trolleys (Delrin).

TECHNICAL RELIABILITY

Our ZÉPHYR walls have undergone the most rigorous endurance and mechanical resistance tests, in a specific lab or in ALGAFLEX's own Test Center.
5-year parts and labor warranty.

IMPLEMENTATION

Panels can be fixed by a central suspension (MONODIRECTIONAL) composed of 4 self-lubricating and highly resistant polymer rollers ensuring a smooth and silent movement without friction.

Panels can also be fixed by 2 trolleys (MULTIDIRECTIONAL) with self-lubricating polymer rollers with double direction of rotation ensuring smooth and silent movement without friction.

QUICK TO INSTALL

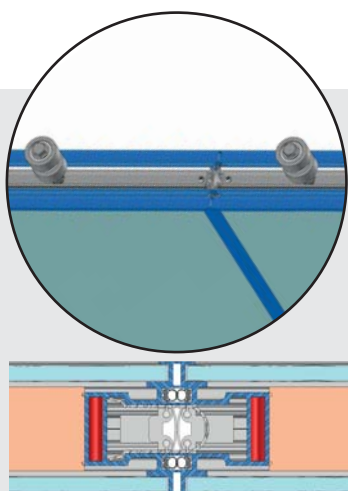
Top and bottom telescopic seals are locked in place with just 1/3 of a turn of a removable handle.

FACE FINISHING

· Laminate range ALGAFLEX.



JOINING PANELS



	Panel Maximum Width	1200
	Weight starting at *	18 Kg /m ²
	Panel Maximum Height	3 000 mm
	Sound Reduction	R_w 36 dB / R_a 32 dB
	Thickness	100 mm
	Fire Reaction	Meets Standard AM14

*Weight for panels of 3000 x 1200 mm

* Depending on the specificities of the project, our Design Office will adapt the measurements.

FIREWALL Ei60 Ei90



The FIREWALL Ei60 Ei90 has a fire resistance of 1h and 1h30. The law doesn't have as advanced expectations (only 30 minutes), our Movable Walls ALGAFLEX® exceed the limits of fire resistance.



PRINCIPLE

Custom-made acoustic movable wall system. Sliding panels in a top track without any floor guidance.

ACOUSTIC

The FIREWALL offers a sound reduction R_w of 51 dB.

SILENT AND EASY TO MOVE

ALGAFLEX assures an exclusive system : Polymer-coated, selflubricating, wear-resistant ball bearing trolleys (Delrin).

TECHNICAL RELIABILITY

Our FIREWALL Ei30 - Ei60 walls have undergone the most rigorous endurance and mechanical resistance tests, in a specific lab or in ALGAFLEX's own Test Center.

5-year parts and labor warranty.

IMPLEMENTATION

Panels can be fixed by a central suspension (MONODIRECTIONAL) composed of 4 self-lubricating and highly resistant polymer rollers ensuring a smooth and silent movement without friction.

Panels can also be fixed by 2 trolleys (MULTIDIRECTIONAL) with self-lubricating polymer rollers with double direction of rotation ensuring smooth and silent movement without friction.

QUICK TO INSTALL

Top and bottom telescopic seals are locked in place with just 1/3 of a turn of a removable handle.

FACE FINISHING

- Melamine Laminate ALGAFLEX range.
- Laminate PRINT colours ALGAFLEX range.
- Oberflex ALGAFLEX range.
- Laminate all brands.

OPTIONS

- Lacquering profile
- Murauto.



	Panel Maximum Width	Custom made depending on finishing
	Weight starting at *	73 Kg /m ²
	Panel Maximum Height	4 500 mm
	Sound Reduction	51 dB/Ra 49dB
	Thickness	141 mm
	Fire Reaction	Meets Standard AM14

*Weight for panels of 3000 x 1200 mm

* Depending on the specificities of the project, our Design Office will adapt the measurements.

GYMNAFLEX



The GYMNAFLEX gymnasium curtain brings versatility to sports complexes, making them adaptable to any of your needs.

It is fully automated to give users an appreciable comfort in handling. This concept has become essential for multipurpose halls.

THE CURTAIN

The curtain consists of two parallel synthetic fabric walls made of polyester fiber coated on both sides with PVC, plasticized, fireproofed and manufactured in 1.80 m wide strips. It stretches across the whole opening.

WALLS

The spacing between the two fabrics is calculated depending of the bay to be occulted, generally between 300 and 500 mm. This spacing is also variable on the height, this flared setup (narrower at the base) allows a perfect embedding of the fabrics during climb maneuvers and a relaxation without friction during the deployments.

The walls are connected by a retaining ladder made of the same material and running along the entire length of the structure so as to allow lifting with equal folds.

The visible surfaces of the walls are smooth and without fasteners.

STRIPS

The strips are assembled horizontally, the fabric strips are assembled together by thermo welding supplemented by machine-made seams. This design ensures the maintenance and longevity of the final product.

HANDLING

The lifting mechanism, which is electrically operated, consists of a motor unit directly connected to a shaft, running along the length, on which lifting straps are wound. A loading bar, supporting the restraint ladder, is fastened at the end of the straps allowing the two canvases to rise simultaneously and on a regular basis.

POWER SUPPLY

The choice will be made according to the dimensions of the curtain. There are two possibilities:

- 230 V tubular motor at the shaft end for small curtains.
- 380 V Box motor in the center of the shaft for large curtains.

IMPLEMENTATION

GYMNAFLEX up and down maneuvers are easily executed for a single person via a key switch.

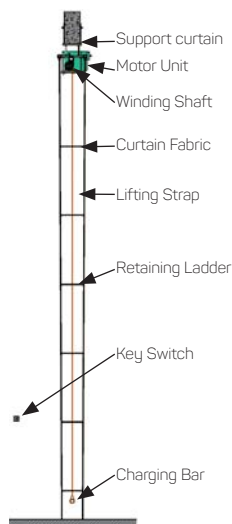
COLOURS

As part of the fire regulations, the GYMNAFLEX (mobile dividing wall) is subject to article AM12. At least fire reaction classification will be M2. For a project or a fire rating M1 is required, the choice of the colour of the fabric will be gray or white.

For rankings M2 choice will be more extensive. (contact us)



PROFILE VIEW



Motor Unit



Folded Curtain



	Material Weight	530 g/m³
	Break Resistance	200/250 daN
	Tear Resistance	20/16 daN
	Fire Resistance	Meets Standard AM14
	Strips Width	1800 mm
	Spacing between Walls	from 300mm to 500mm
	Color	Consult us Finishing varnish dual face










LES OPTIONS

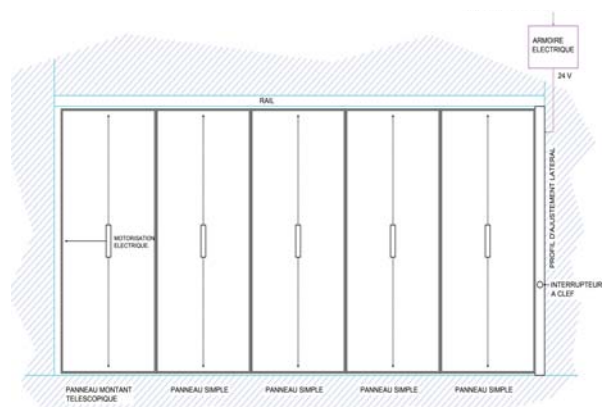
OPTION MURAUTO

The operation of the high and low removable handle is carried out by an electric motor which allows the instantaneous locking or unlocking of the panels constituting the Movable Wall. This system can be integrated to our Movable Walls CLASSIC, STYLIST, SILENCE and LUMIERE...

It replaces the manual locking and unlocking of the panels.



	Sound Reduction	Rw 50-51-54-55-59 dB / Ra 46-49-52-53-59 dB
	Panel Maximum Height	Up to 12 000 mm depending model
	Panel Maximum Width	Custom made depending on finishing
	Thickness	119 to 151 mm
	Fire Reaction	Standard AM14



OPTION CURVED WALL

Pushing back technical limits, the CURVED WALL is the natural choice of Movable Wall for all of whom creativity has no bounds.

An unrivalled innovation for use in congress halls, reception rooms, amphitheatres...

A unique design that is simply beautiful.



	Sound Reduction	Rw 50-54-55 dB / Ra 46-52-53 dB
	Panel Maximum Height	3 000 mm
	Panel Maximum Width	Custom made depending on finishing
	Thickness	119 to 151 mm
	Fire Reaction	Standard AM14



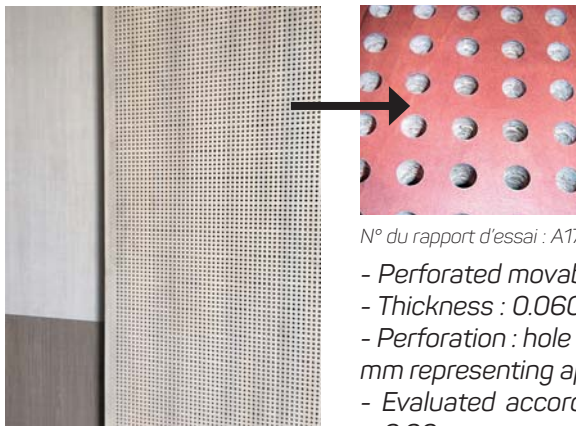
ACOUSTIC ABSORPTION

REMOVABLE ACOUSTIC INSERT SYSTEM

ADVANTAGES :

- *Insulation* : optimal acoustic absorption.
- *Efficient manufacturing*: mobile wall manufacturing is managed independently of acoustic insert production.
- *Easy installation*: the inserts are installed after the wall modules, which means the basic elements are lighter.
- *Responsiveness*: on-site intervention in two stages, allowing more flexible schedule management.
- *Safety*: risk of damage is significantly reduced by installing the inserts during the final stages on the jobsite.
- *Technicality*: technical mounting and assembly saves on final panel thickness and reduces storage space.

These inserts prevent the reverberation of sound on the walls: sound is absorbed by micro-facings which are perforated over 20% of the surface of each panel and internal glass wool cladding.



N° du rapport d'essai : A171208A

- Perforated movable wall panels
- Thickness : 0.060 m
- Perforation : hole $d = 8$ mm, interaxial = 16 mm representing approximately 18.3% void
- Evaluated according to ISO 11654 : $\alpha W = 0.60$
- Sound absorption class : C



Movable wall not equipped with acoustic inserts



Installation of acoustic inserts on a pre-installed mobile wall

ACOUSTIC REDUCTION / ABSORPTION

Our inserts are adaptable on the facing of the panels. First advantage of this system, the panel doesn't lose its sound reduction. This technique creates a greater thickness on the panels. Indeed, the storage system is complex for this type of products.

To remedy this, ALGAFLEX created and tested a new partition :

- One side is full coated and the other face is perforated. Thus the thickness of the panels goes from 119 mm to 138 mm.

High-performance design, achieving results of :

- R_w of 47-2 dB for a sound reduction and a Alpha Sabine coefficient of 0.70 in micro-perforated.
- R_w of 50-3 dB for a sound reduction and a Alpha Sabine coefficient of 0.65 in perforation 8/16.



Final installation of a micro-perforated facing (facing to be chosen from a wide range of options)

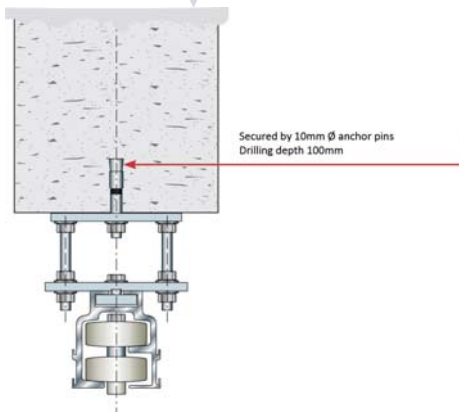
These inserts can be placed on both movable partitions and the peripheral partitions: CONSULT US.

TECHNICAL SPECIFICATIONS

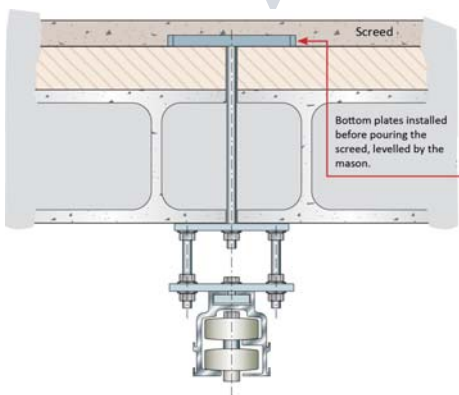
TRACK MOUNTING

These installation methods are provided as examples only and are not contractually binding. Installation methods must be specifically calculated for each case on each partition. Furthermore, they must be validated and checked by the control office approved by the competent authorities.

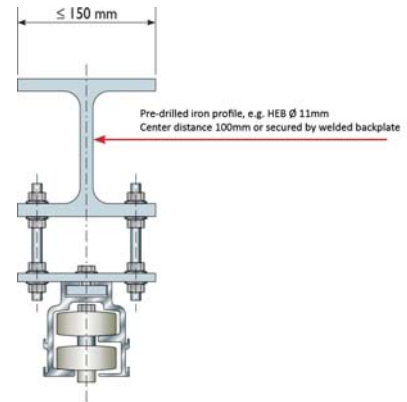
SUSPENSION UNDER REINFORCED CONCRETE BEAM



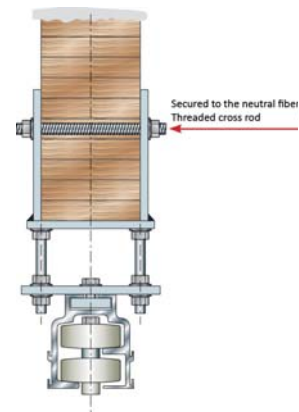
SUSPENSION UNDER HOLLOW CONCRETE FLOORING OR SLABS



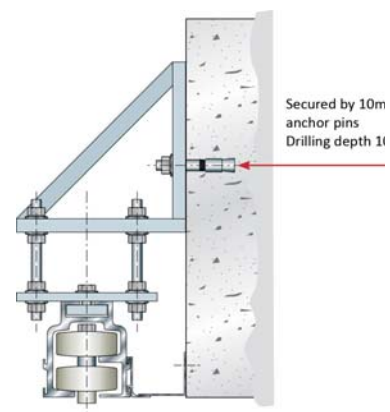
SUSPENSION UNDER METAL BEAM



SUSPENSION UNDER WOODEN BEAM



SUSPENSION AGAINST REINFORCED CONCRETE WALL



DOOR AND PIVOT PANEL

TELESCOPIC RISING PANEL (PMT)



Minimum panel width : 500 mm
Minimum and maximum dimensions
according to the model.

DOUBLE DOOR PANEL (PPL)



Door passage 1400 mm
Minimum panel width 950 mm
Door passage 1600 mm
Minimum panel width 1050 mm

PIVOT PANEL (PB)



Full height pivot panel:
This panel is fixed to the wall.
It serves as a door and enables
unlocking of the movable wall.
1200 mm up to 2500 mm high
1000 mm up to 3000 mm high
800 mm up to 3500 mm high

LATERAL DOOR PANEL (PL) -
STYLIST RANGE ONLY



Door passage 900 mm
Minimum panel width 1254 mm

INTERNAL DOOR PANEL (PPI)

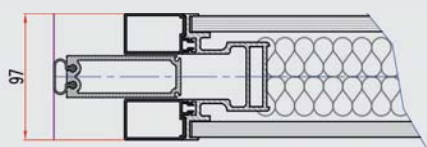


Door passage 800 mm
Minimum panel width 1154 mm

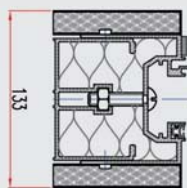
Door passage 900 mm
Minimum panel width 1254 mm

! Note: Values for door passages are
given for doors opening at 180°.

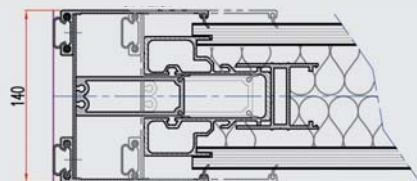
TELESCOPIC RISING PANEL
(PMT)



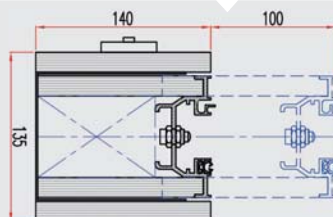
SIDE ADJUSTMENT PROFILE



UPMT



ADJUSTMENT PROFILE
TELESCOPIC ELECTRICAL
(PATE)

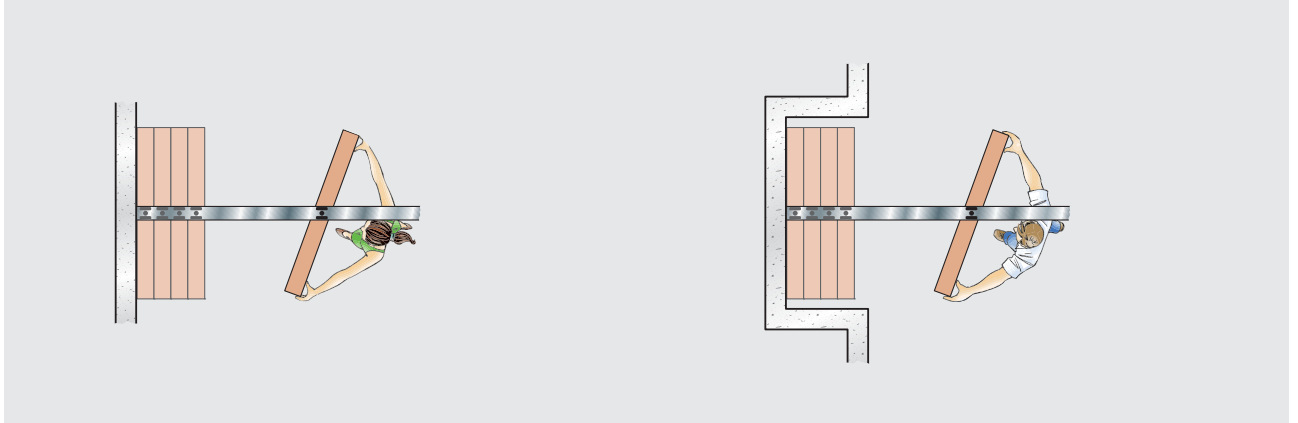


JOINING PANELS

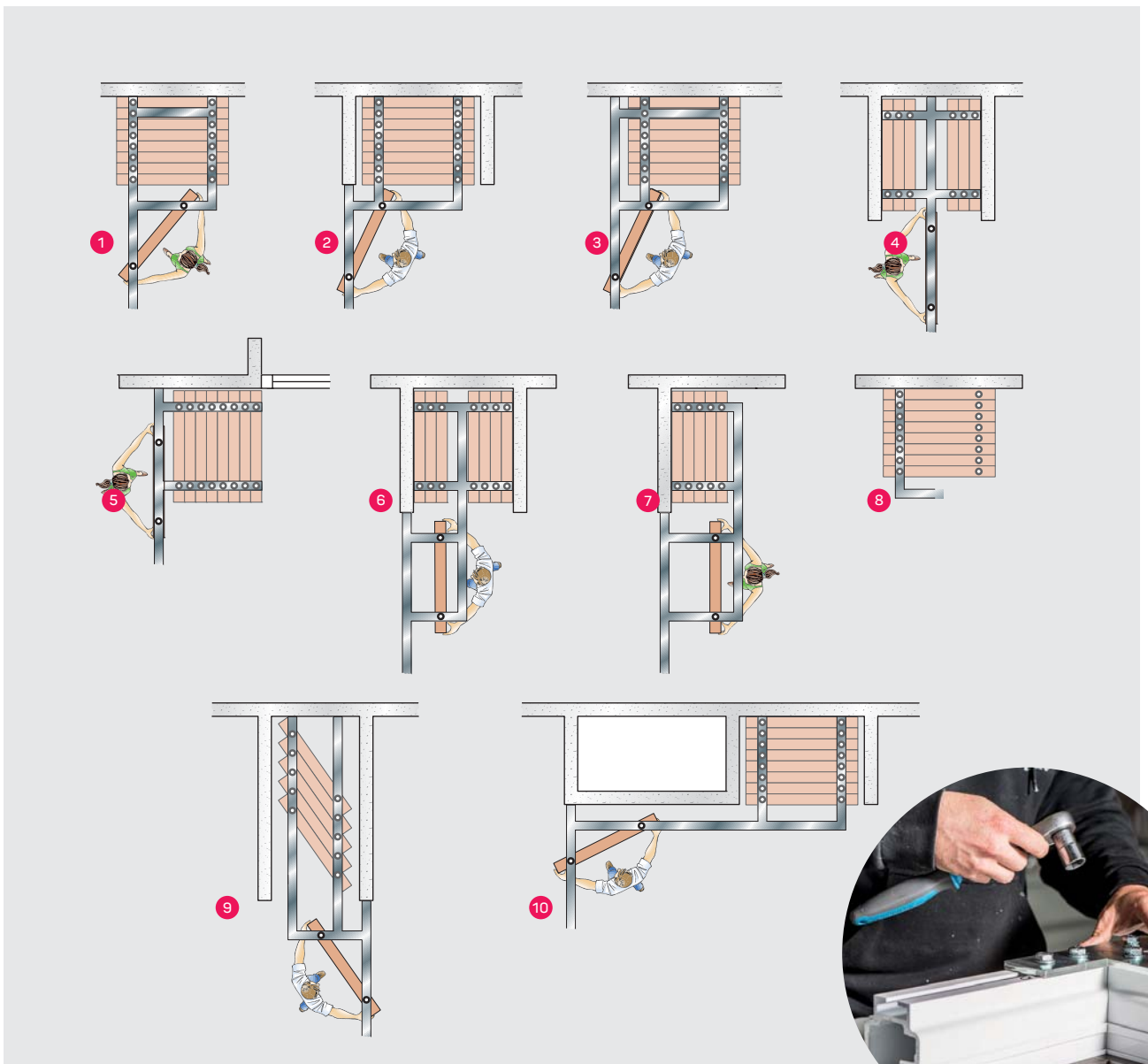


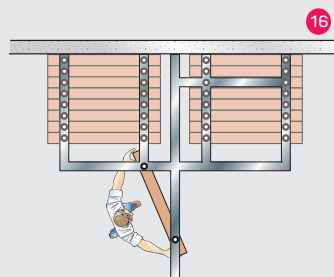
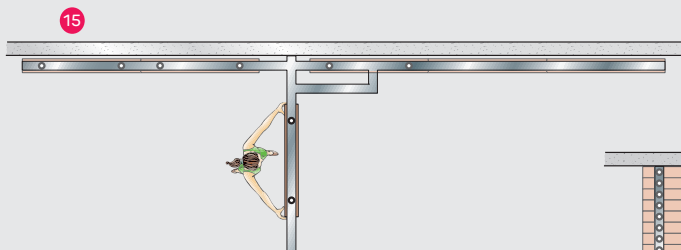
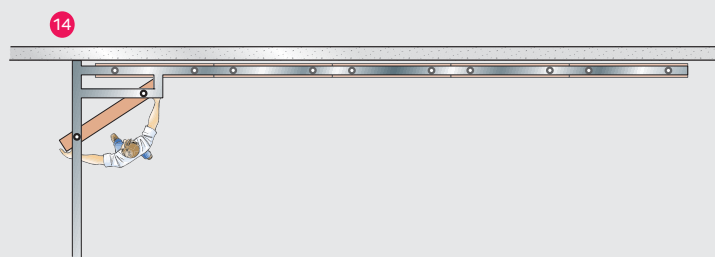
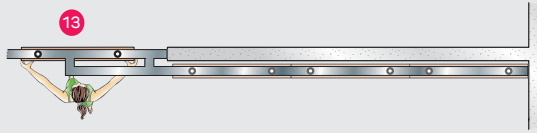
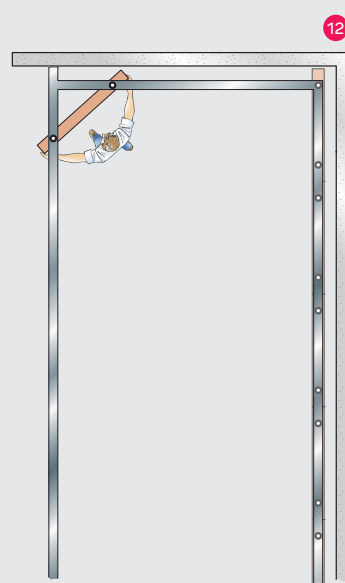
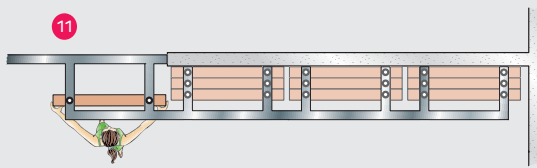
STORAGE POSSIBILITIES

MONODIRECTIONAL



MULTIDIRECTIONAL





FIRE SAFETY

ALGAFLEX FIRE WARRANTY

Whether for classrooms, meeting rooms or multipurpose halls, conference rooms, cultural centres, etc., for places that need modularity combined with sound reduction and fire safety, ALGAFLEX has developed a range of movable walls.

CERTIFIED LABORATORY GUARANTEES

These installations have particularly significant fire safety characteristics: flameresistant firewall from ½ hour to 1 hour.

Tests were performed at EFACTIS, the fire testing laboratory certified by the French Interior Ministry, the Secretary of State for Maritime Affairs and APSAD.

KNOW-HOW GUARANTEE

However complex your installation is, all its components must pass fire resistance tests. ALGAFLEX offers its entire product range:

• TRACK

Monodirectional

Multidirectional with L or T intersections, storage zone.

• PANEL

Standard

With internal door

With double doors

With pivot door panel

With oculus

With large height glazing

With intermediate seals

Extra tall

• CORNER POSTS

Angular mobility (junction of several movable walls)

2 directions

3 directions

CERTIFICATION

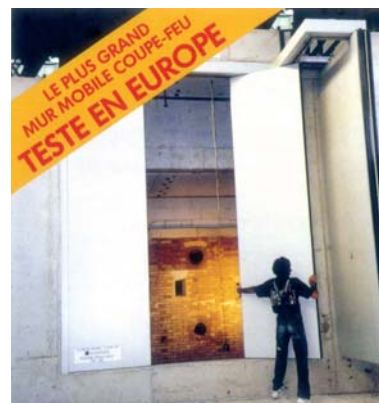
All certificates awarded have been published in the "Official Journal" of the Republic of France.

COMPLETE TEST REPORTS GUARANTEES

Only a complete copy of the official report can verify conformity for validation of an installation and normal use of the results.

These documents are your guarantee; you should demand them and they should be supplied.

This is why ALGAFLEX gives you a complete copy of the official document for each project.



FIRE SAFETY

FIRE REACTION

INTRODUCTION

Fire safety is a compulsory component of all construction projects, particularly tall buildings and public buildings.... Movable walls are no exception to these regulations.

In public premises or in buildings housing valuable objects (museums, laboratories, etc.), fire-resistant movable walls can serve a fire-prevention purpose while the premises are not in use.

CURRENT REGULATIONS

Current general regulations concerning fire safety for construction projects are determined by the M classification system.

The M classification system lies at the centre of the national prevention system that requires use of materials whose reaction to fire has been determined and classified for construction. Related testing methods such as the

epiradiator, electrical burners or panels for floor coverings enable assessment of these classifications.

Fire performance classifications range from M0 to M4, and, in association with fire regulations, enable rules to be established for the use of construction materials for public buildings.

FIRE REACTION

Fire performance tests are performed according to standardized methods and samples. Classification is determined according to measured results obtained on various criteria:

- Combustibility;
- Combustion time;
- Flame front propagation;
- Maximum flame height.

FIRE RESISTANCE

Fire tests determine how long the construction elements resist fire.

Three criteria are taken into consideration :

- Mechanical resistance (fire stability) - not applicable to movable partitions (non-bearing element).
- Insulation from flames and inflammable or hot gases (flameproof).
- Thermal insulation (firewall).

Fire resistance tests are performed in three laboratories certified by the French Interior Ministry. Only the full version of the test report enables verification of the conformity required for object validity. The test report is informative in nature and is valid for 5 years.

For each of your projects, you should request the full fire resistance test report carried out in a laboratory certified by the Interior Ministry.

FACING	FIREWALL	PARTITION COMPOSITION	MAXIMUM HEIGHT	MAXIMUM WIDTH	TEST REPORT N°
STYLIST			10000 MM		
WOOD	EI 30	ALL RANGE		NO LIMIT	12-A-730
STYLIST			4400 MM		
PROMATEC	EI 60/90	PS - PMT		NO LIMIT	EFR -14-G001787

Fire Reaction : M1, M2 ou M3 depending on facing and coating.

Certified approval: All ALGAFLEX "firewall" movable walls have been certified by publication in the "Official Journal" according to the test results issued by EFECTIS.

SOUND REDUCTION

THE MAIN CHANGES CONCERN :

• REGULATIONS

TECHNICAL AMENDMENTS

For equal acoustical qualities, the

he numeric values expressed with the new indices are different, so the regulated values concerned have therefore been modified and adapted to the new calculation method. The required acoustical performance therefore remains unchanged and the modifications are merely a matter of expression.

• PRESCRIPTION

TECHNICAL SOLUTIONS REMAIN UNCHANGED

Only the way in which company consultation files are written is changed, in particular in terms of vocabulary, values and indices. Previous technical solutions can still be used.

• PRODUCTS

REQUIRED PERFORMANCE IS SIMILAR

Although reforms have altered the characterization of products, the acoustical performance required is nonetheless similar.

• CONTROL

CHANGES IN INDEX CALCULATIONS

Checking a building's conformity to regulations is carried out in two steps : acoustical measurements are first taken inside the building, and then these measurements are used to calculate a unique evaluation index for each case. Only the second step is affected by the changes, since indices are calculated differently.

ACOUSTIC TESTS

• LABORATORY TESTS

ACOUSTICAL TESTING

Acoustical tests are carried out according to current standards:

- ISO 140-3: (1995)
- ISO 717-1: (1997)

Acoustical magnitude, measured during laboratory testing, is the sound reduction index R_w . These measurements are conducted in one-third octave bands. The overall index expressed in dB is given as an integer value.

• FIELD TESTS

Acoustical tests are conducted to conform to current standards:

- EN ISO 10052 (buildings with volumes of less than 200 m³)
- NFS 31054 (buildings with volumes of more than 20 m³)

Acoustical magnitude, measured during in situ tests, is the standardized acoustical reduction expressed in R_w dB (D_{nat})

(NFS 31057) D_{nAT} . Overall insulation expressed in dB is given as an integer value.

Unlike the reduction index R (an intrinsic characteristic of the construction component), standardized acoustical insulation D_{nAT} takes into consideration the partition's environment and, more specifically, any lateral transmission.

Lateral transmission can have a considerable impact on the results obtained.

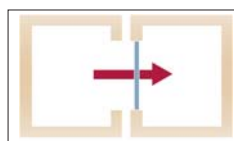
Furthermore, generally speaking, the value of the standardized acoustical insulation D_{nAT}

is lower than that of the sound reduction index R because of the partition's environment.

INSULATION AND REDUCTION INDEX

It is important to distinguish two notions in the field of acoustics:

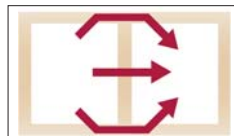
SOUND REDUCTION INDEX: R_w



It is expressed in dB.

This index characterizes the ability of a construction component (partition) to reduce sound transmission. It is measured in a laboratory with no lateral

STANDARDIZED ACOUSTICAL TRANSMISSION : D_{nat}



the volume of the reception area and the reverberation* characteristics of the reception area.

It is measured on the field and is also expressed in R_w dB.

*REVERBERATION TIME IN T OR T_R

The duration of reverberation characterizes an area's absorption. It can be defined as being the time taken by a sound to decrease by 60 dB.

It is expressed in seconds.

ACOUSTIC TESTS

TYPE	FACING	SOUND REDUCTION INDEX		REPORT NUMBER
ZEPHYR	Wood	R_w 36 dB	R_a 31 dB	X6EX026_006
SÉRIFLEX 41	Wood	R_w 41 dB	R_a 39 dB	X5EX092_1C
SÉRIFLEX 45	Wood	R_w 45 dB	R_a 43 dB	PV-191201-45
CLASSIC	Wood	R_w 49 dB	R_a 46 dB	X5EX092_4C
STYLIST 50	Wood	R_w 50 dB	R_a 46 dB	X5EX092_5C
STYLIST 54	Wood	R_w 54 dB	R_a 52 dB	X5EX092_2A
STYLIST 55	Wood	R_w 55 dB	R_a 53 dB	X5EX092_5A
SILENCE	Wood	R_w 59 dB	R_a 57 dB	X5EX092_1B
FIREWALL EI 60 / 90	Wood	R_w 51 dB	R_a 49 dB	X5EX092_4A
LUMIERE	Window	R_w 46 dB	R_a 45 dB	PV-04-R0702

The Movable Wall is designed to temporarily divide a given space, thus allowing the resulting volumes to be used at the same time. Meetings, conferences and classes must take place in the best possible acoustic environment.

YOUR FIRST REQUIREMENT IS SOUND REDUCTION

EMISSION			
Open Space 80 dB RW 45 DB 35 dB Quiet Office	↓	Radio / Vidéo 85 dB RW 55 DB 30 dB Conference Hall 50 seats	↓
		↓	
		Restaurant 75 dB RW 45 DB 30 dB Reading Room	↓
			↓
			Conversation 65 dB RW 40 DB 25 dB Concert Hall
RECEPTION			

Sound reduction measurements, according to European standards ISO 140-3 (1995) and ISO 717-1 (1997) are expressed in Rw dB.

The tests are performed in laboratory conditions to conform to current texts and regulations. Additional tests to confirm the laboratory results are performed on site after installation of the movable wall.

A movable wall will have a good sound reduction rating in an environment which is already well-rated and tested by an acoustical engineer.

Ask your supplier for a full test report of the acoustical tests carried out in a certified laboratory for every installation.

To guarantee optimal usage of your space for all activities, ALGAFLEX offers movable walls with a sound reduction of 36 to 59 dB, levels that exceed minimal requirements.

ACOUSTICAL PERFORMANCE

Standardized DnAT acoustical isolation levels obtained from various configurations :

Measured acoustical isolation D_{nAT}	Acoustical performance of the separators only	
	Roses = 40dB(A)	Roses = 45 dB(A)
CASE 1 :		
partition from slab to slab		
· without carpet	DnAT = 37 dB(A)	DnAT = 41 dB(A)
· with carpet	DnAT = 36 dB(A)	DnAT = 41 dB(A)
CASE 2 :		
case 1 with carpet + suspended ceiling		
	DnAT = 26 dB(A)	DnAT = 26 dB(A)
CASE 3 :		
case 2 + horizontal soundproof barrier		
· Bare fibreglass, 100 mm ± 13 kg/m ³	DnAT = 31 dB(A)	DnAT = 31 dB(A)
CASE 4 :		
case 2 + vertical soundproof barrier		
· Rock wool, 80 mm ± 70 kg/m ³	DnAT = 27 dB(A)	DnAT = 27 dB(A)
· Light partition type barrier (*)	DnAT = 35 dB(A)	DnAT = 37 dB(A)
· Rock wool, 100 mm, ± 120 kg/m ³	DnAT = 33 dB(A)	DnAT = 34 dB(A)
· Rock wool + alu leaf on either side, 80 mm, ± 80 kg/m ³	DnAT = 32 dB(A)	DnAT = 34 dB(A)
CASE 5 :		
case 2 + fibreglass blocks		
· Fibreglass blocks L500xp400xH300		
density ± 13 kg/m ³	DnAT = 36 dB(A)	DnAT = 39 dB (A)

· Comparisons of R/DnAT for a partition alone show a difference of around 4 dB(A), reflecting mainly the lateral transmissions of the single-block cell.

· Using a thread carpet under removable partitions appears to have little effect on measured acoustical isolation. Specific precautions should be taken at the bottom of movable partitions.

· Acoustical isolation measured in the presence of an empty suspended ceiling is low (DnAT = 26 dB(A)): lateral transmission is preponderant at suspended ceiling level.

· Depending on the type of soundproof barrier implemented, measured acoustical insulation varies from 27 to 39 dB(A).

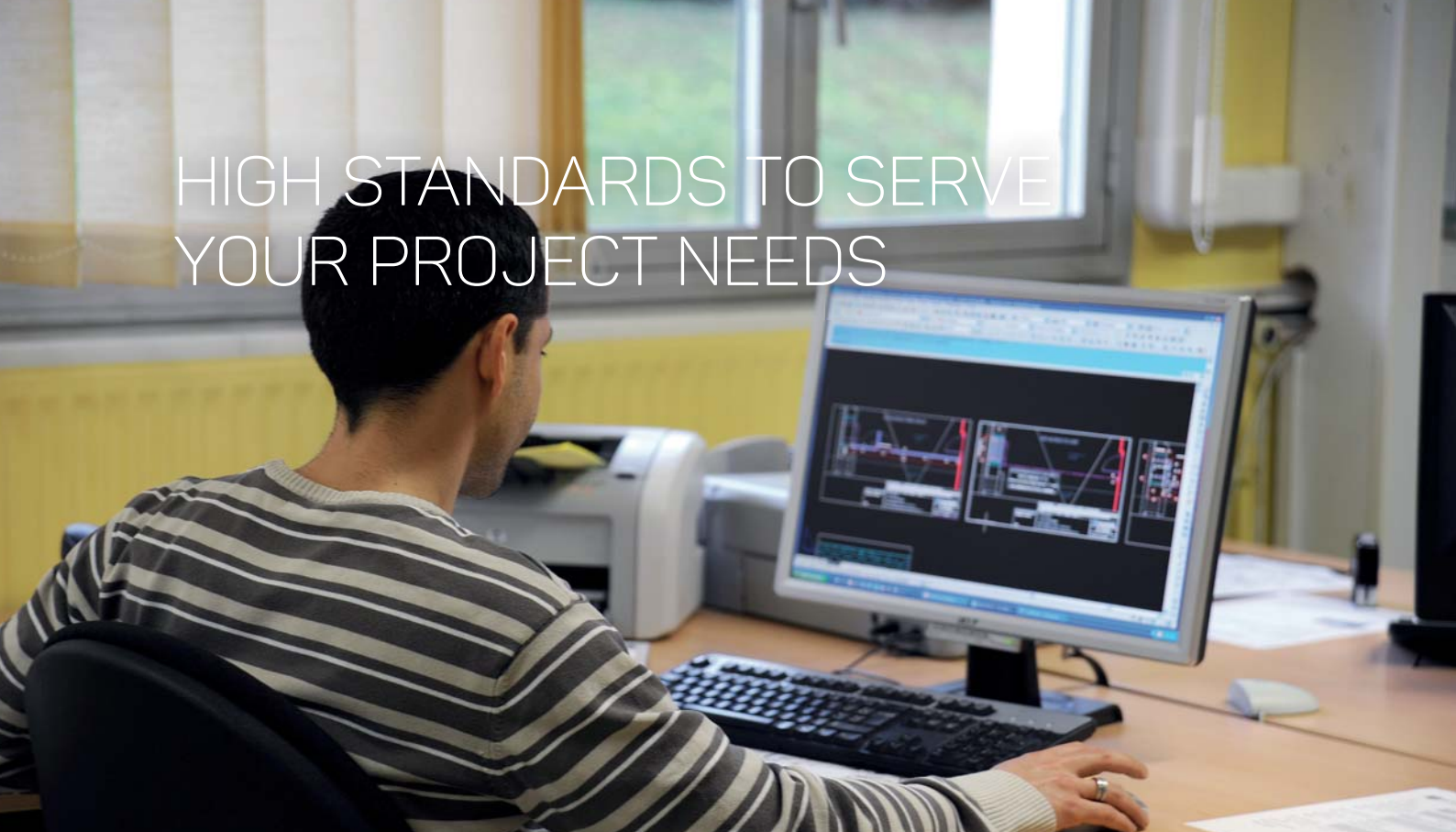
· Draught resistance and the thickness of porous materials also appear to affect results. The density of soundproof barriers also contributes to acoustical performance, but to a lesser degree.

Beware of lateral transmissions! They can seriously deteriorate the standardized insulation DnAT rating that could otherwise be claimed.

Earlier reforms of acoustical regulations have been amended by two European standards which came into effect on January 1, 2000, concerning unique index calculations for evaluating the acoustical performance of products and installations. One standard concerns indoor (voices, TVs, etc.) and outdoor (train, airplane, etc.) airborne noise and the other concerns noise caused by impact. Henceforth, evaluation indices are expressed with new measurement units and use new vocabulary.

This document is not contractual. It represents the results of a specific test.

HIGH STANDARDS TO SERVE YOUR PROJECT NEEDS



EASE OF HANDLING

SIMPLE gestures, *EASY* movement, and *QUICK* installation all make for **EASE OF HANDLING**. Essential for easy usage, the movable wall must conform to CER.F.F.* certification requirements.

• LOCKING AND UNLOCKING FORCE

For every panel installed, the force required to lock and unlock is measured.

• PANEL MOVEMENT FORCE

After unlocking each panel

• TRAVEL FORCE

Each panel is moved to its storage position via translation motion (partition folded)

• DISPLACEMENT FORCE

The self-lubricating, wear-resistant, polymer rollers ensure easy, silent, effortless movement.

ECONOMICAL OPERATION

• HEAT TRANSMISSION

- Heating represents a large proportion of hall operational costs.
- Movable walls have good thermal insulation properties (measured by LNE French national test labs*) and enable heating of the premises to be adapted to their use, generating significant savings.

• OPERATING COSTS ARE AN IMPORTANT FACTOR IN THE CHOICE OF A MOVABLE WALL.

• LEASE OF HANDLING, RELIABILITY AND THERMAL INSULATION ARE IMPORTANT QUALITIES THAT ENABLE SUBSTANTIAL SAVINGS.

TECHNICAL RELIABILITY

Movable walls are designed for public premises (conference halls, multi-purpose rooms, gymnasiums, classrooms, etc.) and so must endure intensive usage. To guarantee reliability, they must conform to CER.F.F.* endurance and resistance requirements.

• LOCKING AND UNLOCKING MECHANISM ENDURANCE TESTS

• DOOR UNIT ENDURANCE TESTS

• PANEL DISPLACEMENT ENDURANCE TESTS

• HORIZONTAL THRUST TESTS

• SOFT BODY IMPACT ENDURANCE TESTS (test CER.F.F.)

• MECHANICAL RESISTANCE TESTS OF THE COMPLETE ASSEMBLY rollers, track, adjustment system (test LNE*).

• TRACK RESISTANCE TESTS (LNE*)

* The CER.F.F. certificate is awarded to productions conforming to the above specifications. Ask your supplier for a copy.



*LNE : NATIONAL LABORATORY OF METROLOGY AND TESTING

ACHIEVEMENTS AND REFERENCES

For a full list of our realizations and to view more pictures of our completed projects, we invite you to visit our website : www.algaflex.com



LABORATOIRE SERVIER (PARIS)



ÉCOLE HOTELIÈRE VATEL (LYON)



ÉCOLE HOTELIÈRE VATEL (LYON)



EUREXPO (LYON)

**ALGAFLEX®
HAS ALSO
A RANGE OF
EXTENDABLE
PARTITIONS**

3 WAYS TO USE SPACE BETTER :

- **SÉRIE 7000** : Flexible extendable partitions.
- **ECOPLAST** : Extendable partition made from rigid plastic.
- **ALGAWOOD** : Single-wall, extendable wooden partition.



ALGAFLEX
MOVABLE WALLS

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