



Jofebar
metal works

PANORAMAH!
unlimited perspective

Technical

PANORAMAH! offers several possibilities of combinations, fitting to each project in an individualized way, thanks to its technical and aesthetic specificities.

Elements carried out of structures polyamides combined with the aluminium profiles guarantee excellent thermal and acoustic performances.

The sliding motion system on ball bearings ensures a perfect and easy sliding motion of panes. Optionally, the motorization of sliding elements, still widens the use of PANORAMAH!

Safety is guaranteed by a combination of locks at multiple points, which can be automated and connected to any centralized system of safety.

Technique

Le système PANORAMAH ! offre des possibilités de combinaisons s'adaptant à chaque projet de manière individuelle grâce à ses spécificités techniques et esthétiques.

Des éléments réalisés en structures polyamides combinés aux profils en aluminium garantissent une parfaite rupture des ponts thermiques et d'excellentes performances acoustiques.

Le système de translation sur roulements à billes étanches assure un coulissement parfait et facile des vantaux. En option, une motorisation des éléments coulissants élargit encore le spectre d'utilisation de notre système PANORAMAH ! La sécurité est garantie par une combinaison de serrures à points multiples qui peuvent être automatisées et reliées à n'importe quel système de sécurité centralisé.

Lightness

Profiles from only 20 to 50 mm thickness, make it possible to ensure the perfect operation of glass panes till a maximum surface of 12m², weighing more than 1 ton. Some 4 m height elements can be carried out without any difficulty. This slenderness of the profiles, associated with extreme dimensions of glasses, offers an exceptional transparency and luminosity to projects in which PANORAMAH! is integrated.

Légereté

Des profils de seulement 20 et 50mm d'épaisseur permettent d'assurer le parfait fonctionnement de vantaux d'une surface maximale de 12m² pesant plus d'une tonne. Des éléments de 4 mètres de hauteur peuvent être réalisés sans aucune difficulté.

Cette finesse des profils, associée à des dimensions de verres extrêmes, offre une transparence et une luminosité exceptionnelles aux projets dans lesquels le système PANORAMAH! est intégré.

Personalization

A whole pallet of accessories of excellent manufacture, as well technical as aesthetic, ensures PANORAMAH! a perfect level of completion.

Completion of the profiles in accordance with the aesthetic characteristics of the project, can be carried out of natural anodized or powder coated aluminium according to pallets' RAL or NCS.

Personnalisation

Toute une palette d'accessoires d'excellente manufacture, tant technique qu'esthétique, assure un parfait niveau de finition au système PANORAMAH!

Une finition des profils s'accordant aux caractéristiques esthétiques du projet peut être exécutée en aluminium éloxé naturel ou thermolaqué selon les palettes RAL ou NCS.

Flexibility

The extraordinary flexibility of sliding windows PANORAMAH! becomes obvious when one considers the possibility of opening of angles without residual structural elements, or when one considers vertical systems of opening (guillotine) or swivelling.

Our teams of project PANORAMAH! are disposable to offer the best personalized support to each one of our interlocutors.

Flexibilité

L'extraordinaire flexibilité des fenêtres coulissantes PANORAMAH ! devient une évidence lorsqu'on considère des possibilités d'ouverture d'angles sans éléments structurels résiduels, ou lorsqu'on envisage des systèmes d'ouverture verticaux (guillotine) ou pivotants.

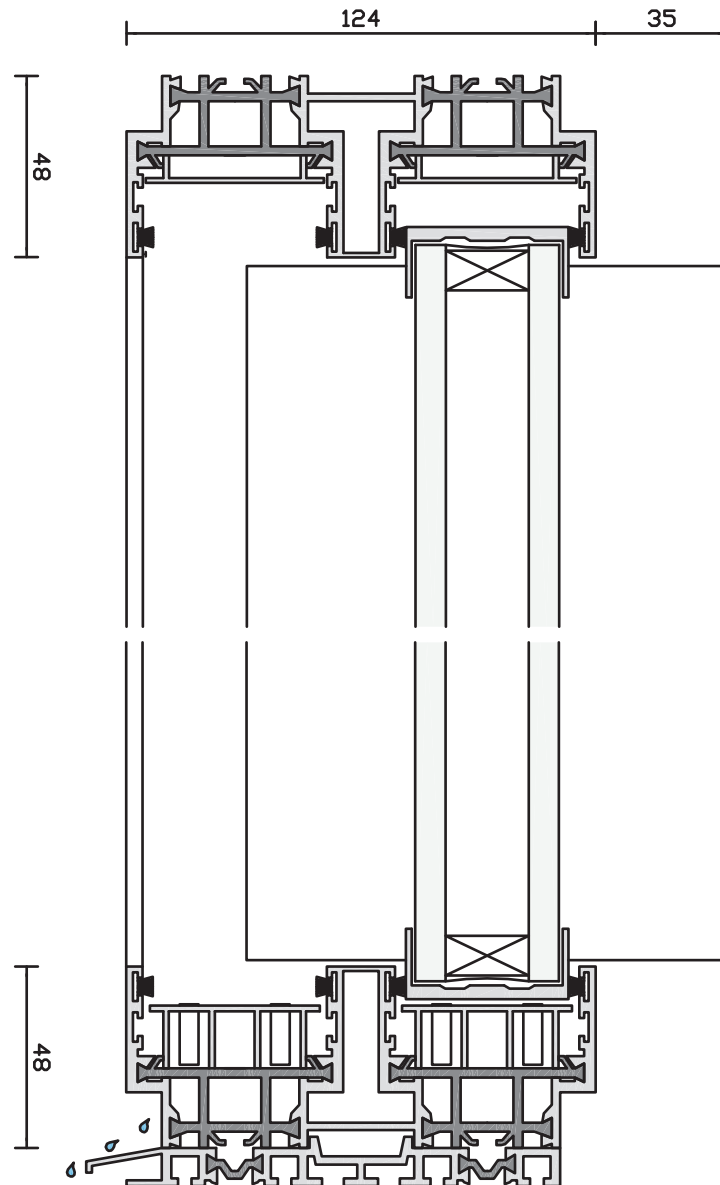
Les équipes de projet PANORAMAH ! sont à disposition pour offrir le meilleur support personnalisé à chacun de nos interlocuteurs.



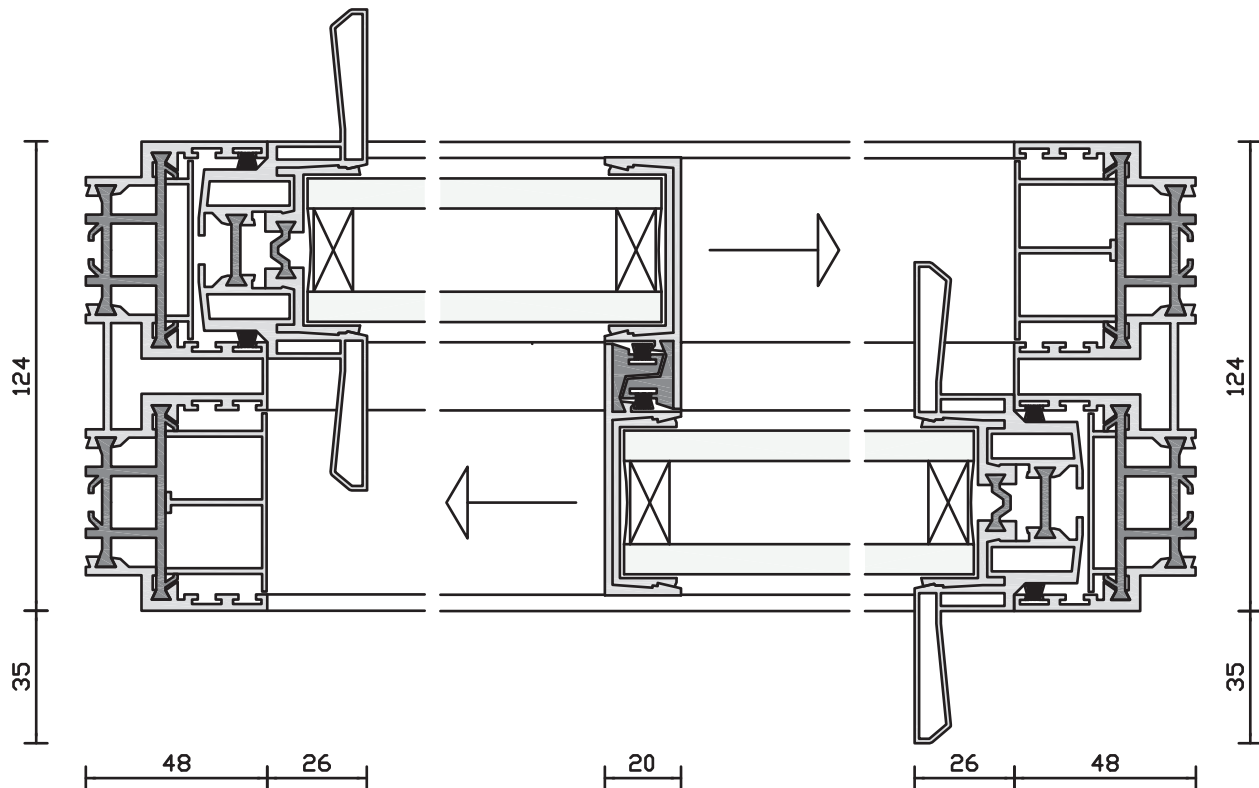


YOU DRAW THE LIMIT
THE MINIMAL WINDOW

VERTICAL CUT
SCALE 1/2

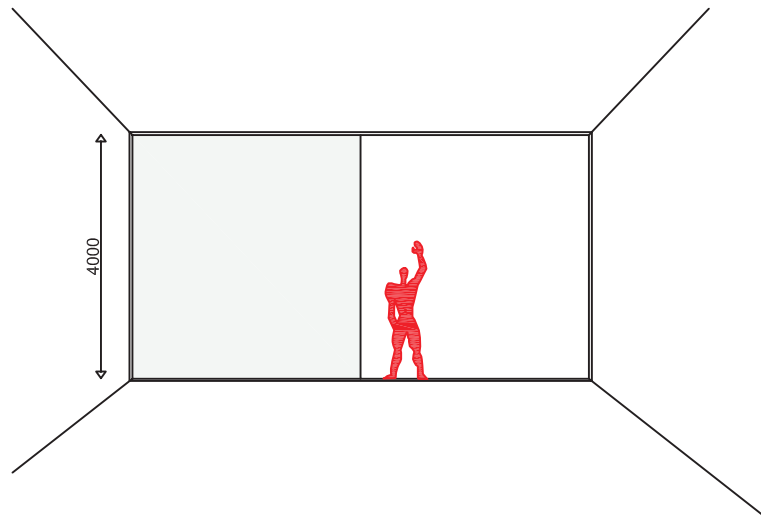
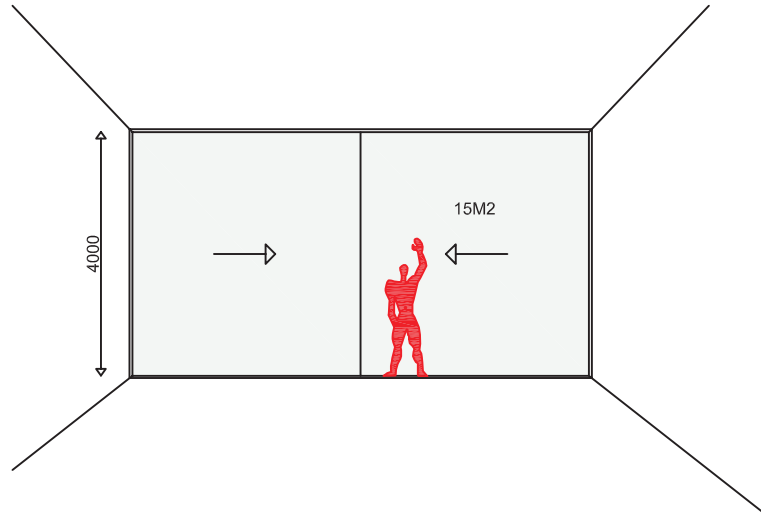


HORIZONTAL CUT
SCALE 1/2

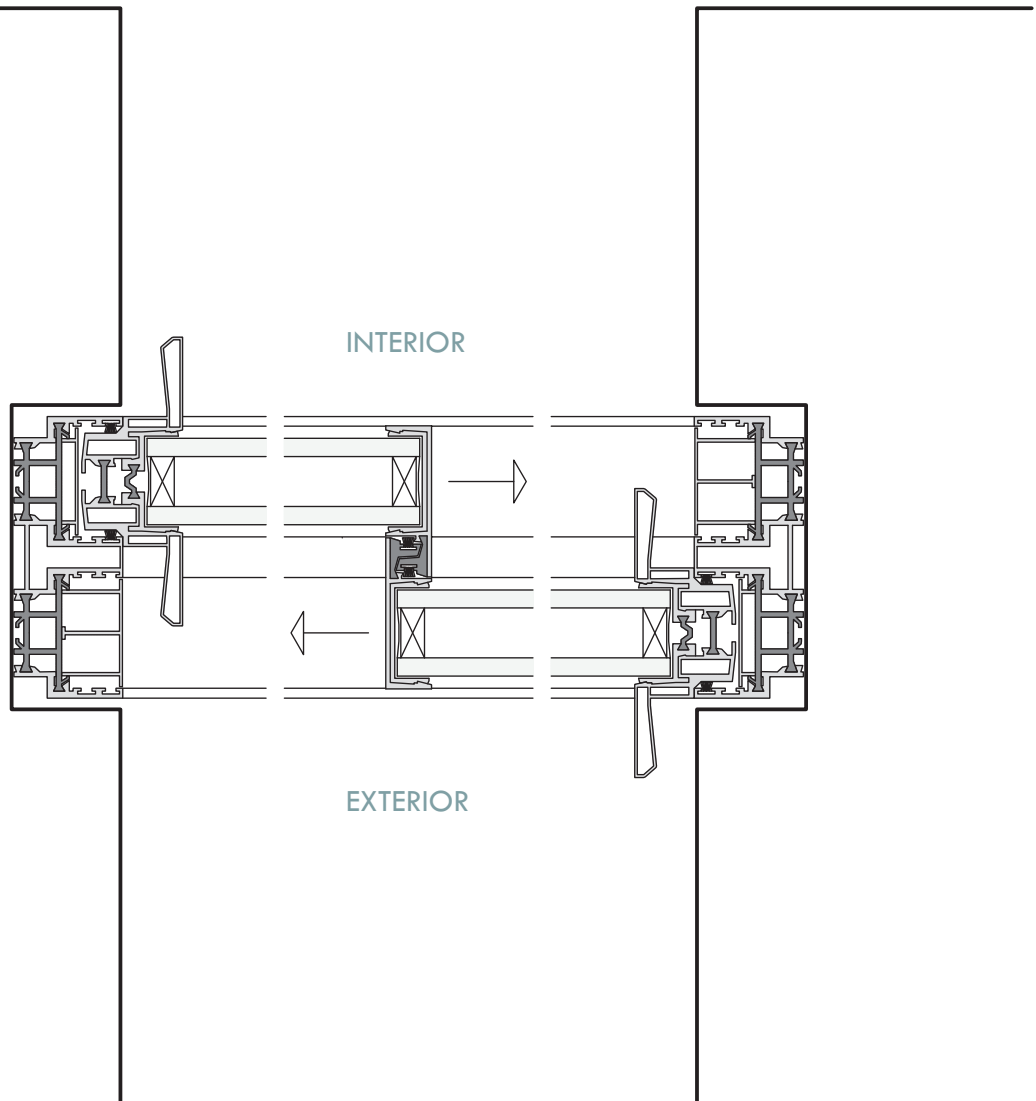




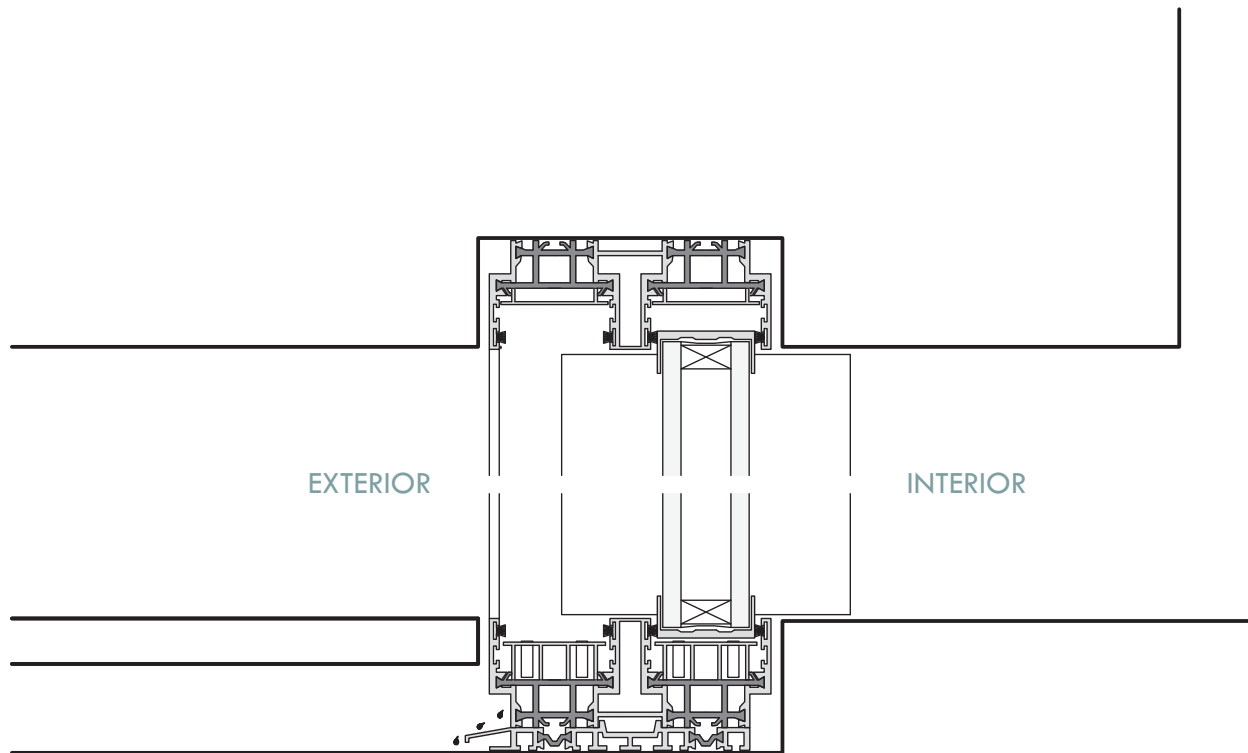
CASE 1



CASE 1
HORIZONTAL CUT

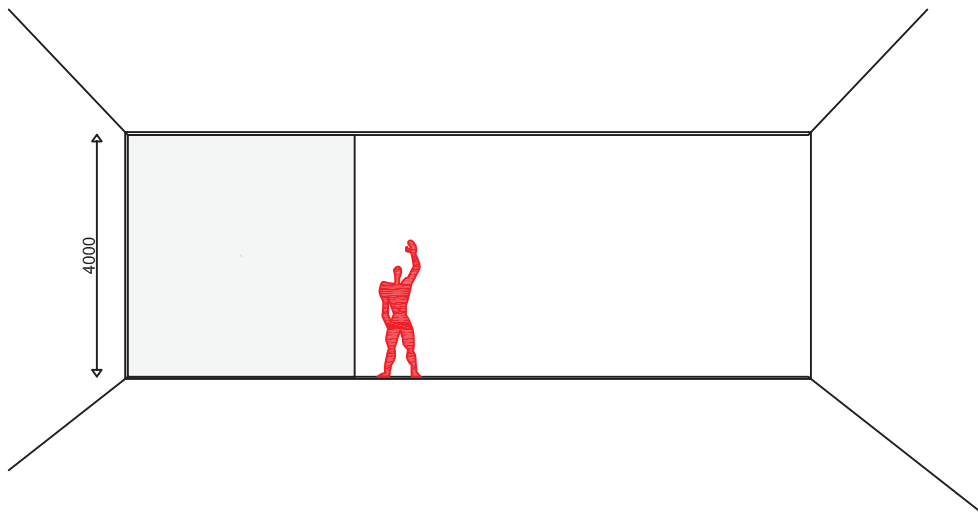
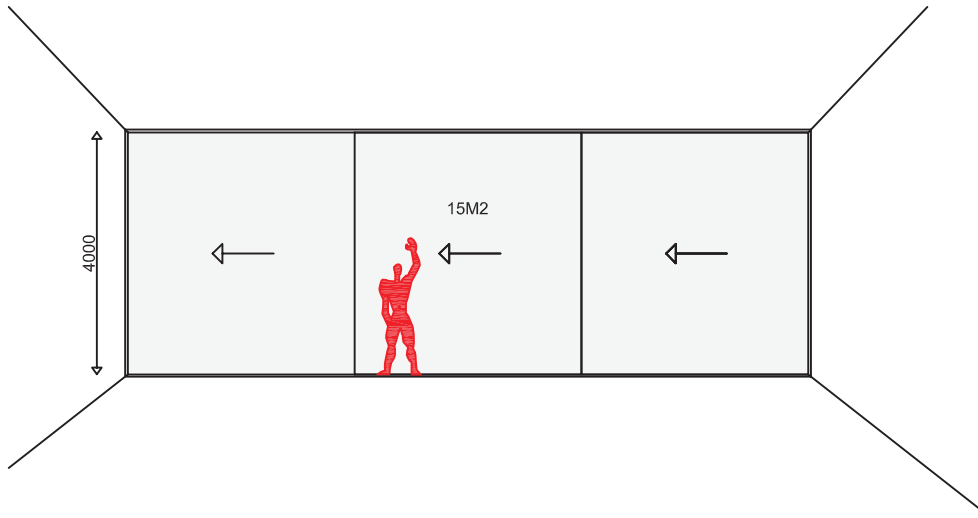


CASE 1 VERTICAL CUT

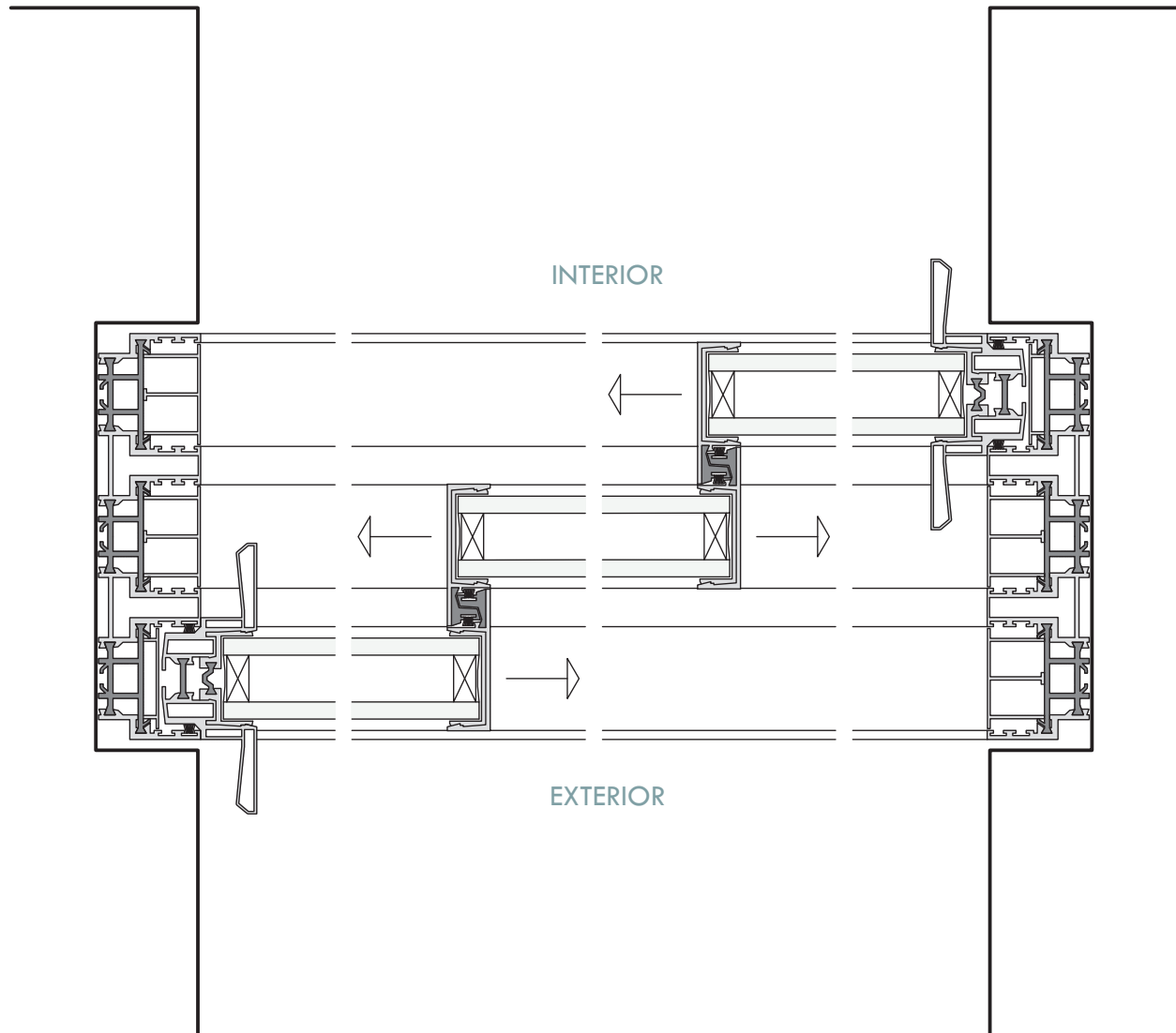




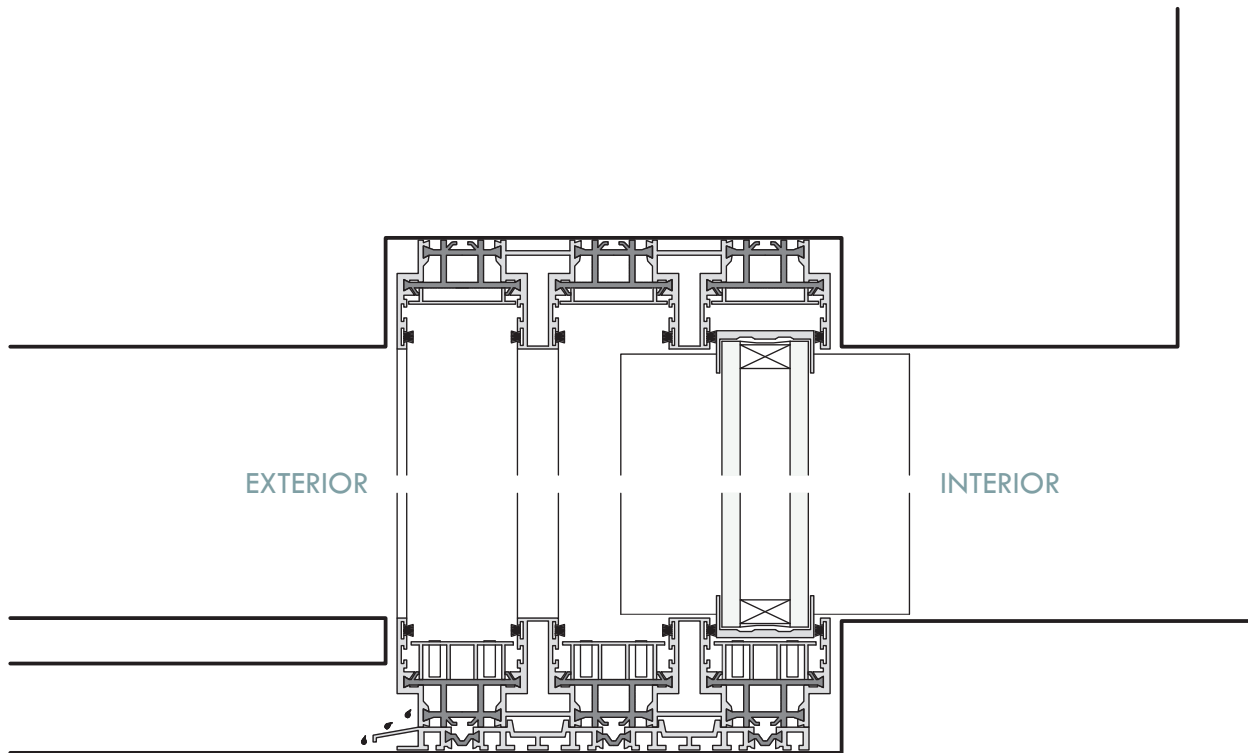
CASE 2



CASE 2
HORIZONTAL CUT

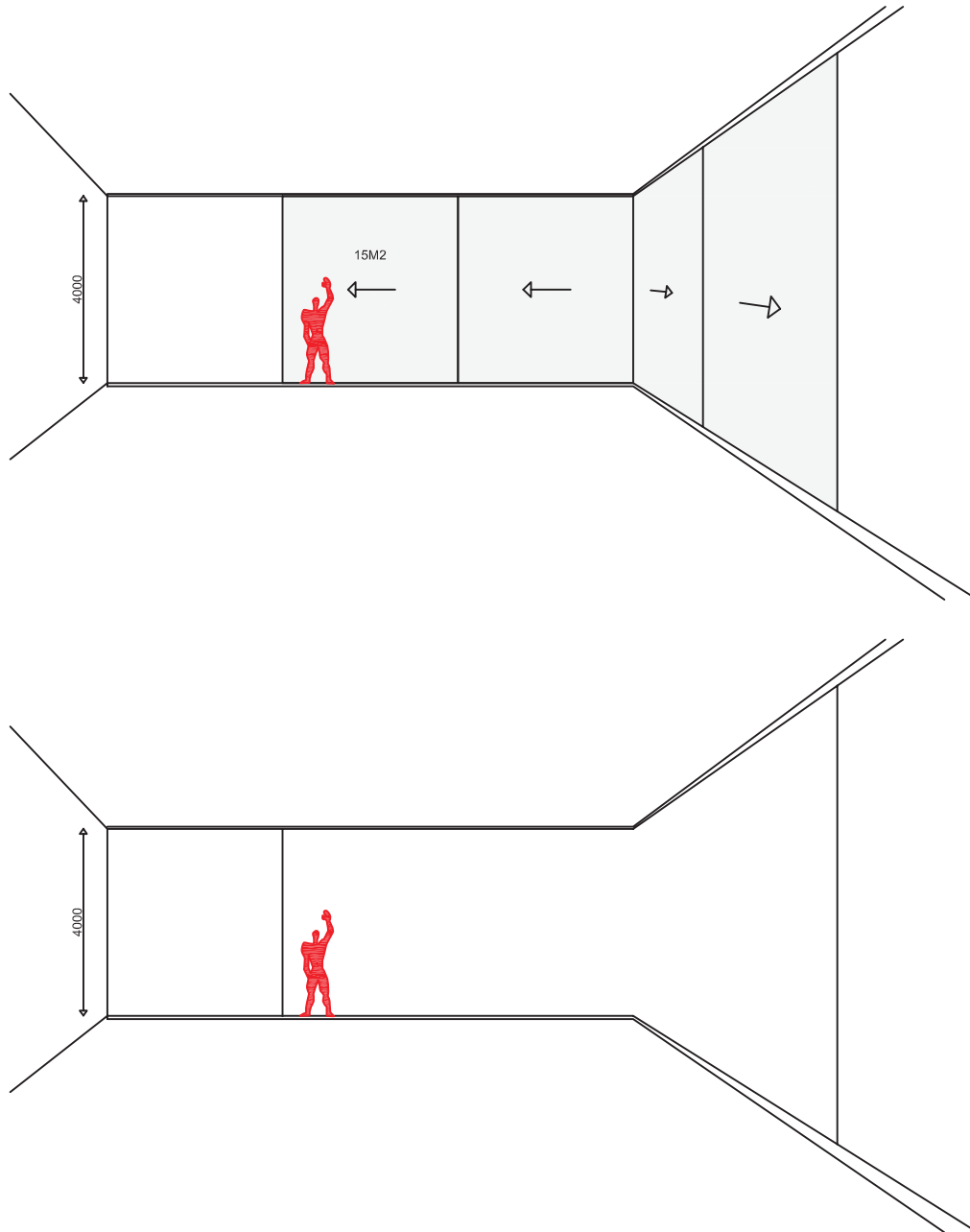


CASE 2
VERTICAL CUT

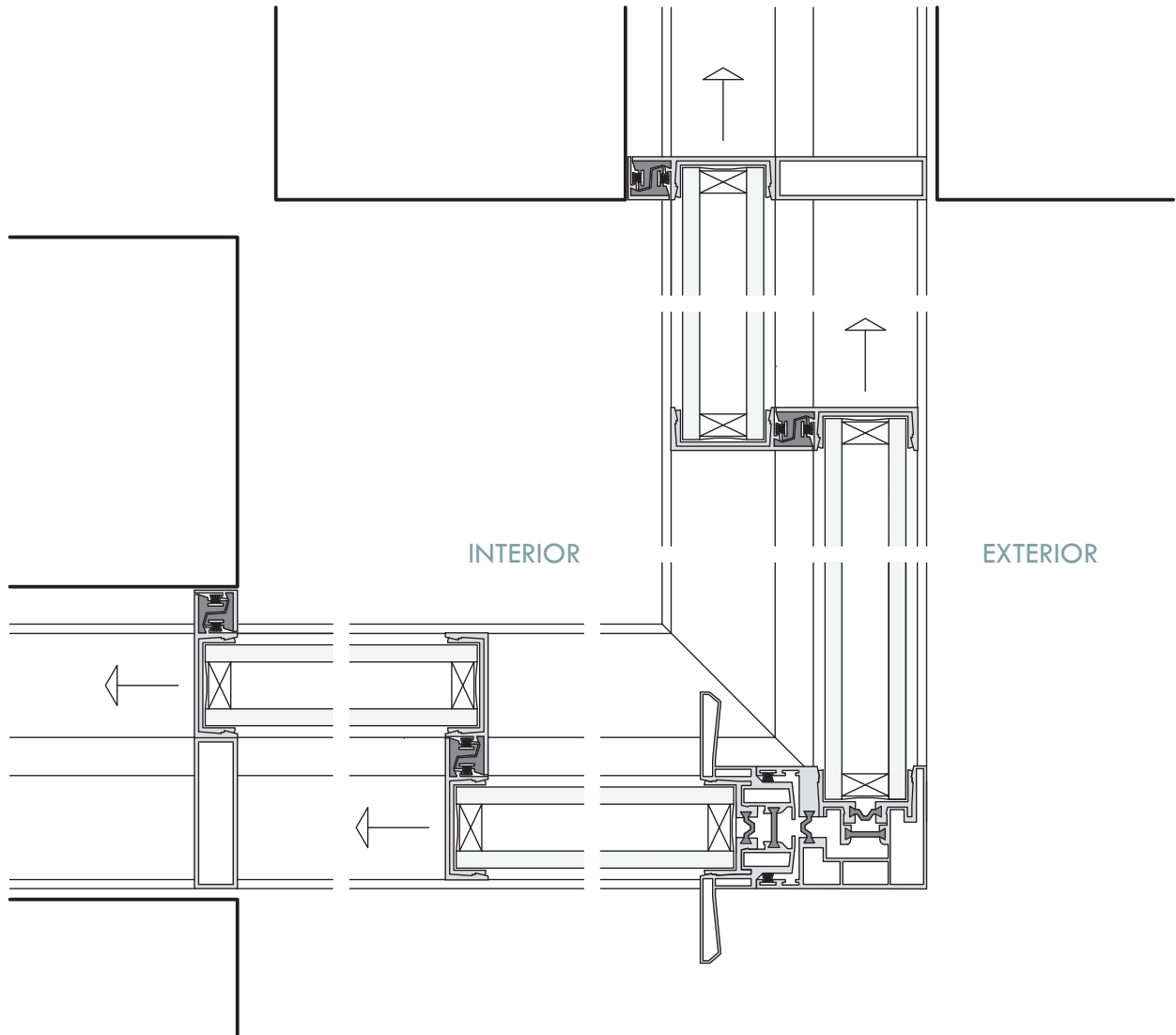




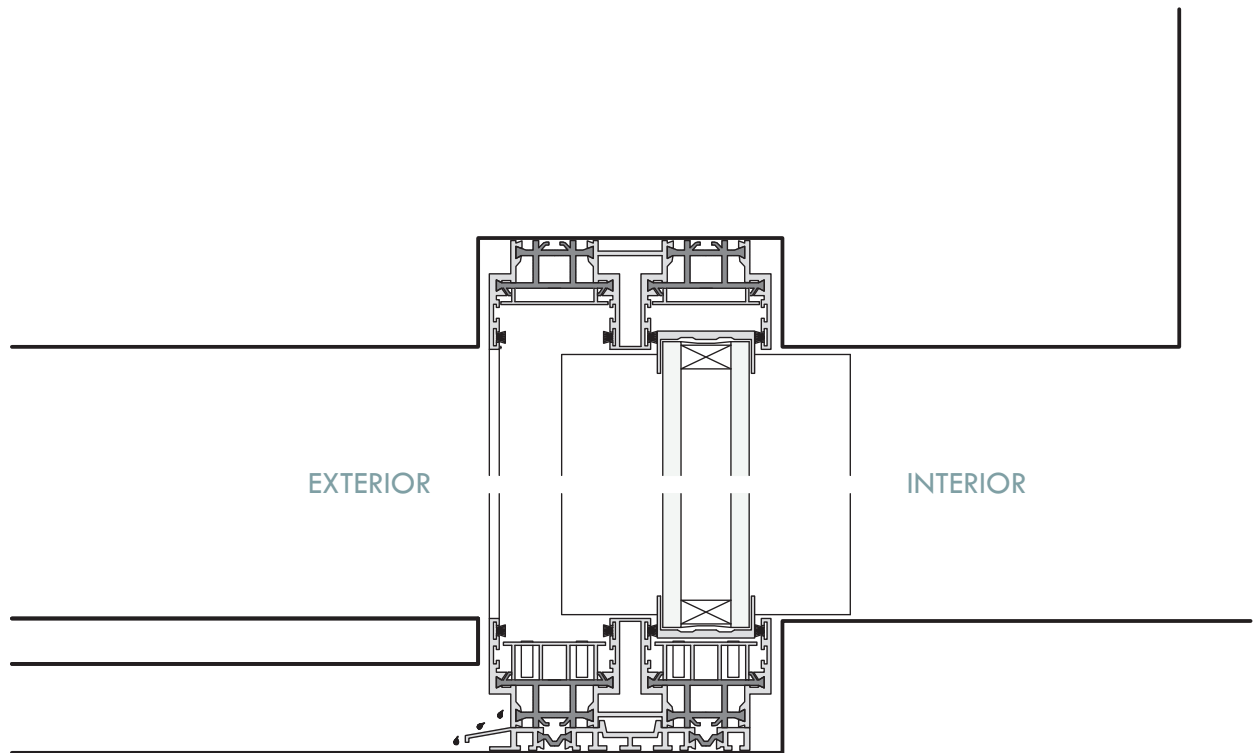
CASE 3



CASE 3
HORIZONTAL CUT

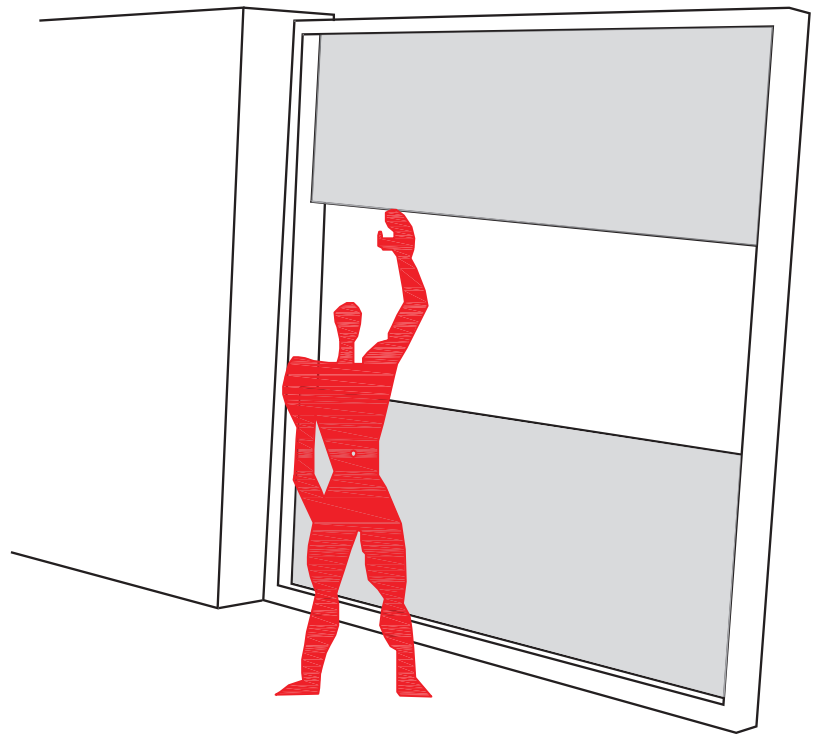
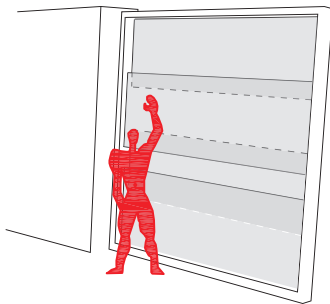
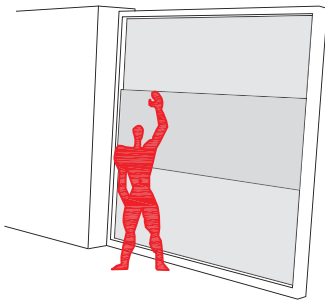


CASE 3 VERTICAL CUT





CASE 4



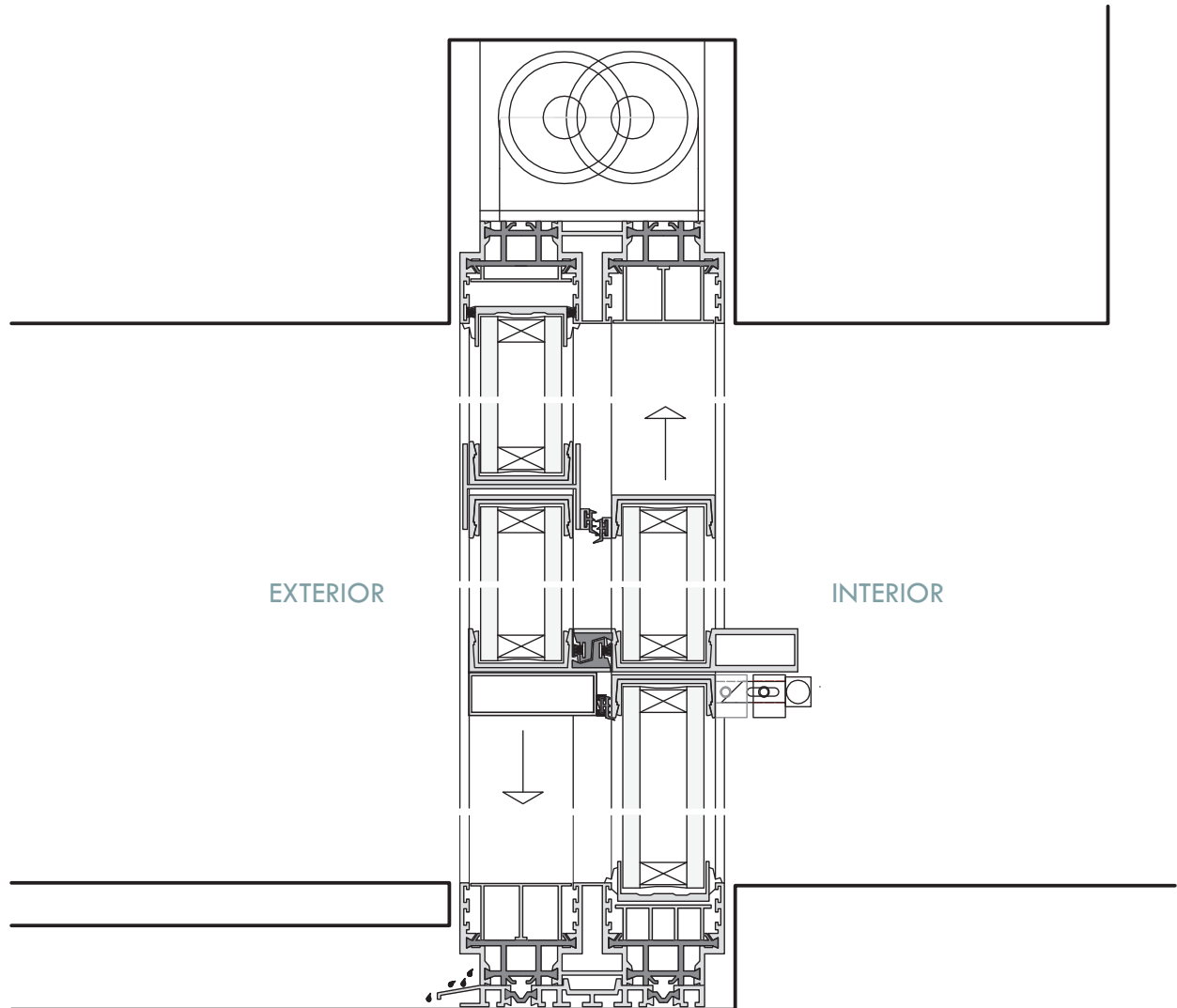
INTERIOR

EXTERIOR

This technical diagram illustrates the cross-section of a window frame assembly. The assembly is shown from both the interior and exterior perspectives. The interior view (top) shows the frame profile with a multi-pane glass unit. The exterior view (bottom) shows the frame profile with a multi-pane glass unit. The diagram highlights the structural components, including the frame, glass, and the internal mechanisms that allow the window to open and close. The labels 'INTERIOR' and 'EXTERIOR' are placed above and below the respective views to indicate orientation.

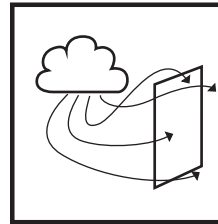
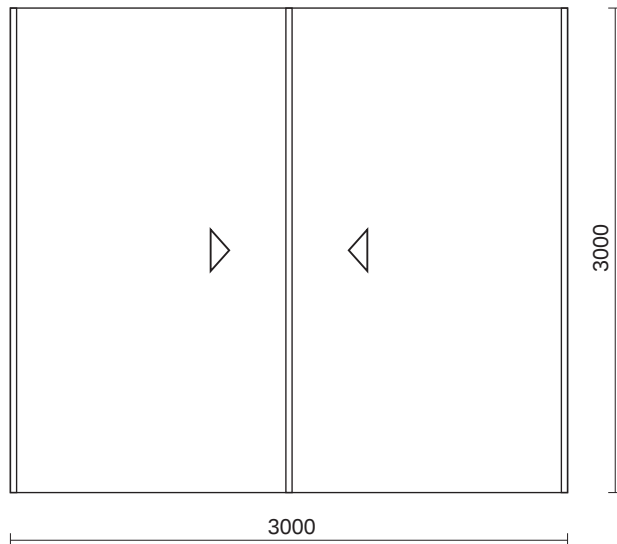
EXTERIOR

CASE 4
VERTICAL CUT

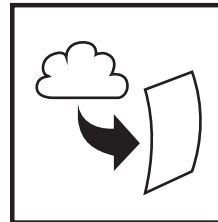




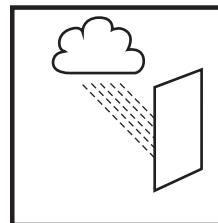
CLASSIFICATION REPORT BASED ON THE
FOLLOWING WINDOW SAMPLE



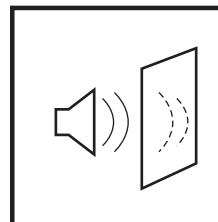
Resistance to Wind load - EN 12210
Class C3 (without reinforced profile)
Class C5 (with reinforced profile)



Air permeability - EN 12207
Class 4



Watertightness - EN 12208
Class 6A



Sound insulation - UNE-EN ISO
717-1: 1997
Class 37dB



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