Aluminium Partition System

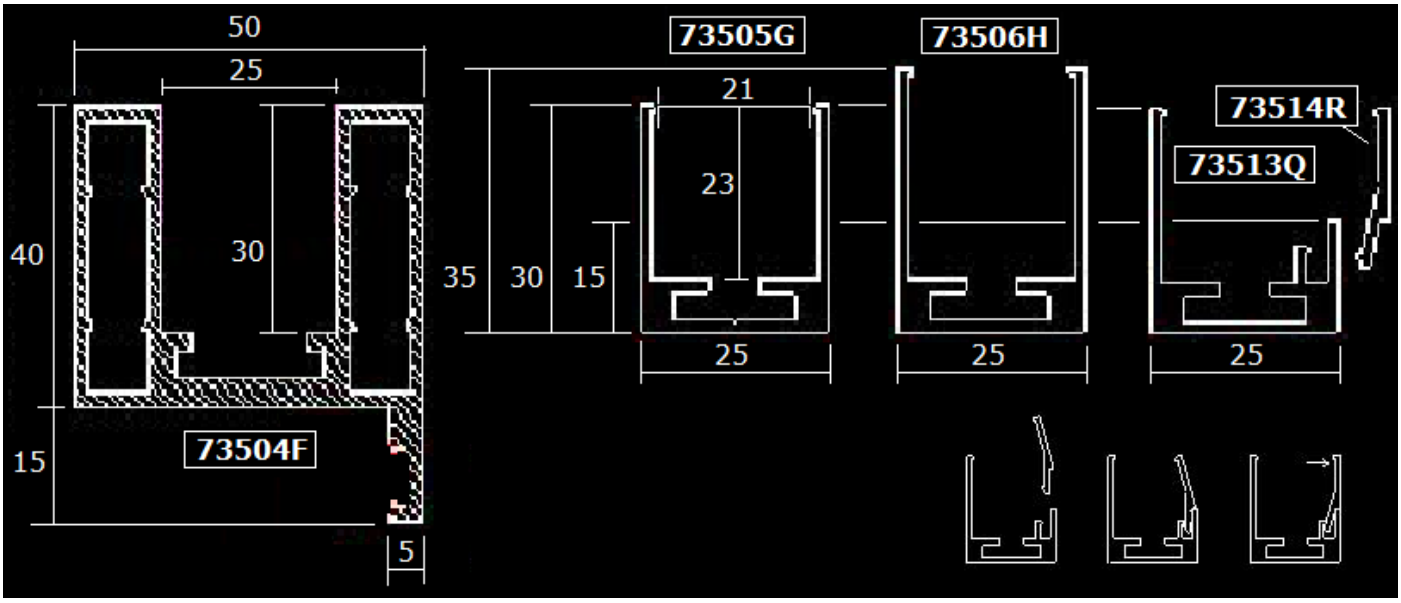
ADLER VF

FT – 8410115-4

EB/Maj.4_EB_19.01.2018

4 basic aluminium profiles

ADLER SAS brings a range down to the few essential profiles to form the majority of structures.

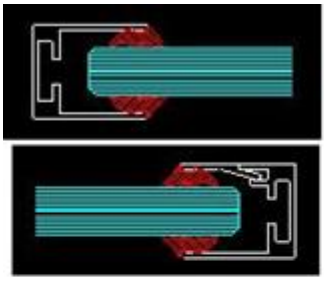


1 standard finish

ADLER SAS offers a standard finish available from stock = brushed stainless anodized.

Other finishes (natural anodized, gilded,…) or versions (plain) are available on request with a short lead time.

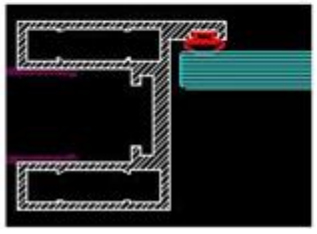
1 minimal choice of accessories



autres dimensions de joints disponibles sur demande jusqu'à des épaisseurs de glace 88.2

73515S

73516T



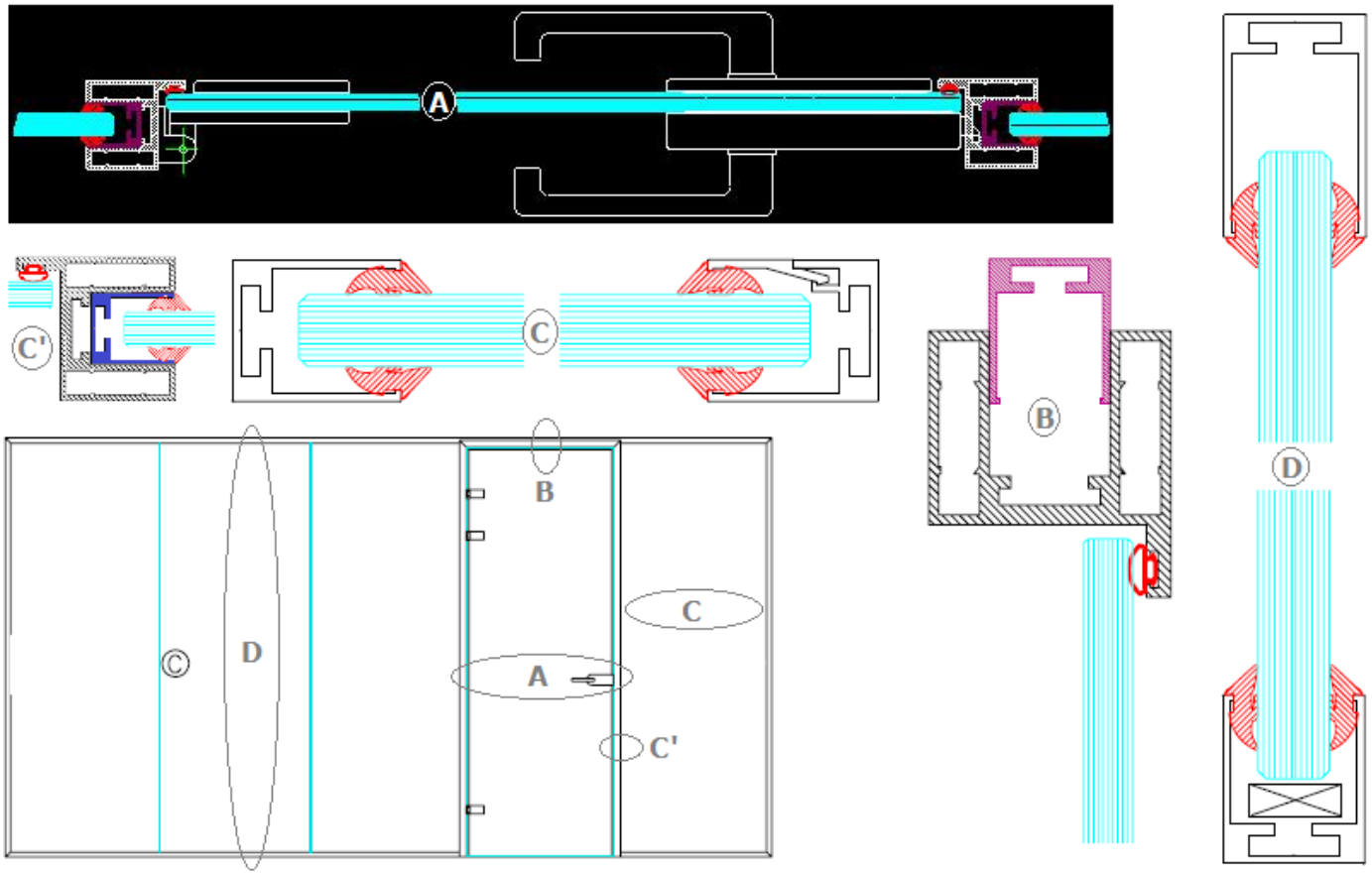
73517V (ép. 5)

73512P (ép. 9)

73519X

Simple, universal construction principles

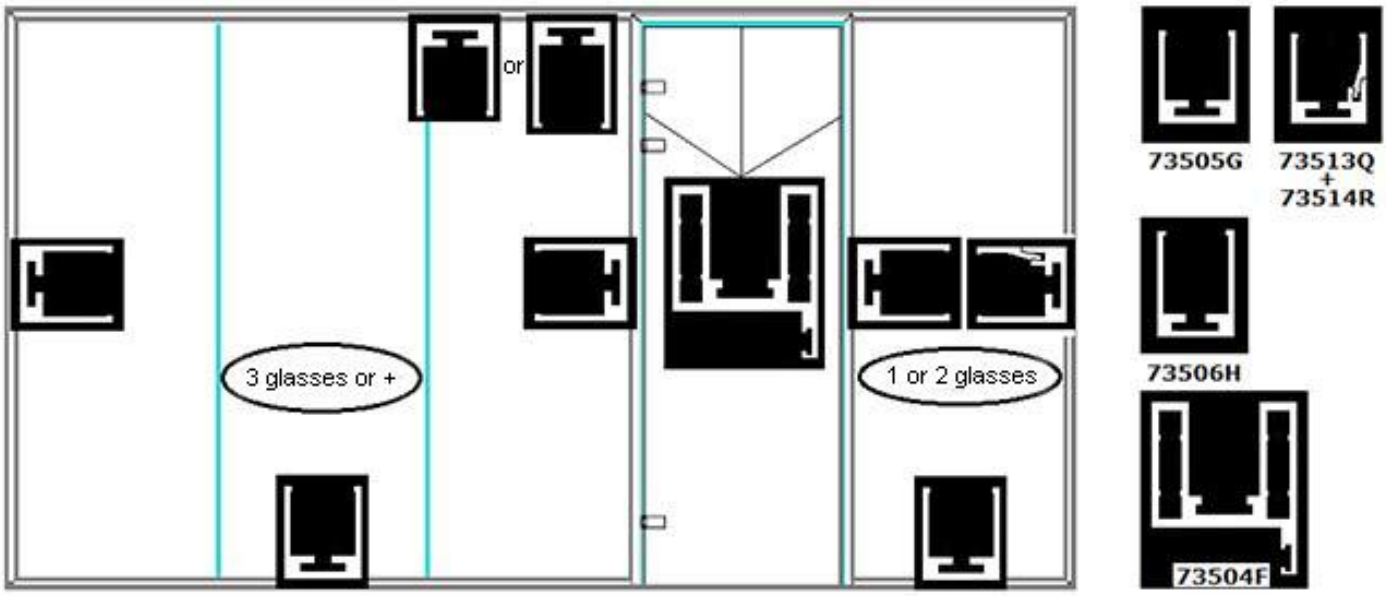
The glass sheet thickness (10 or 12mm as standard, up to 88.2 on request) is balanced in the standard aluminium profiles by suitable seals.



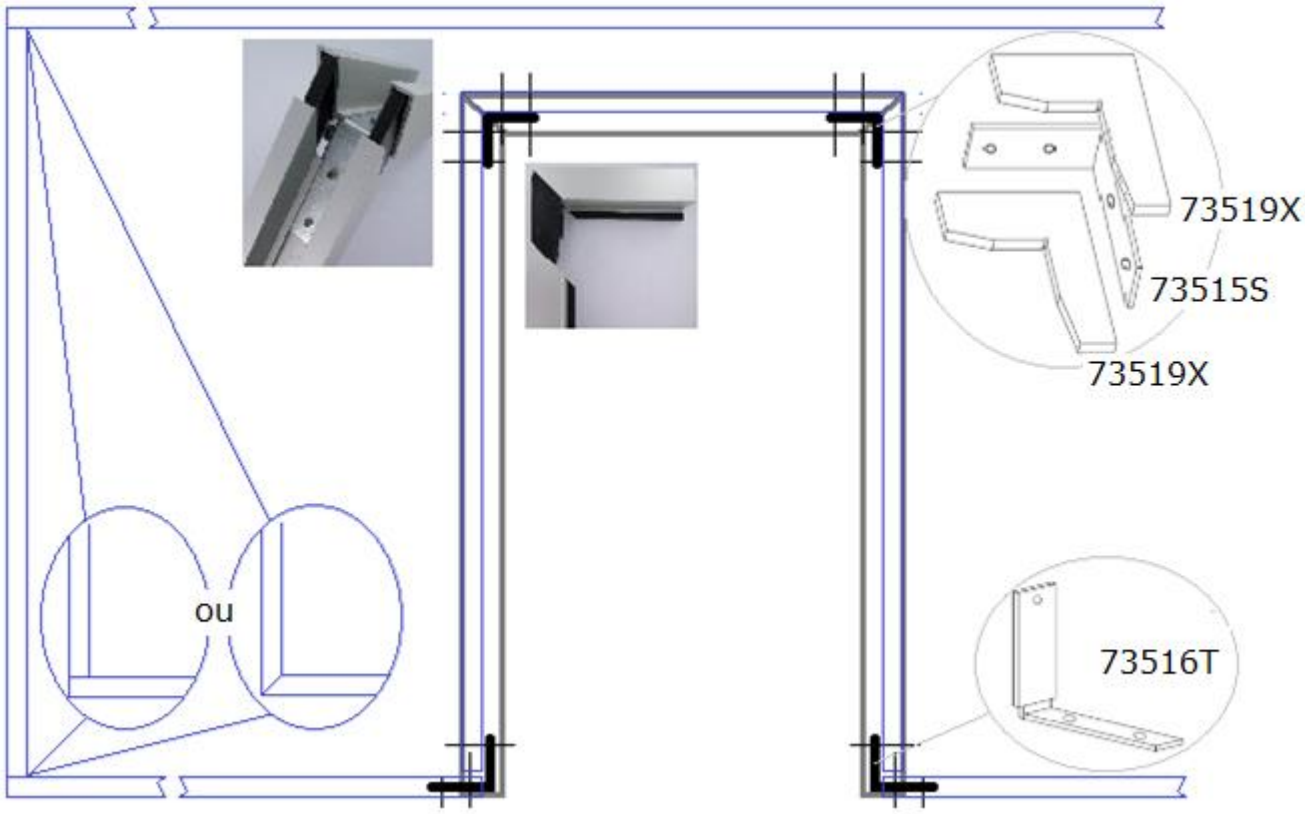
Selection of the necessary profiles

The panels are first inserted into the head profile, then aligned vertically above the sill profile and then lowered into it until they sit on wedges previously set in the sill. The wedging in the sill has a recommended thickness which depends on the choice of head profile (see below).
The sill profile ideally has the shortest face: exterior height 30mm, effective depth 23mm (Ref.: 73505G).
To ensure optimum fitting, we recommend that the head profile should be the deepest, typically with an exterior height of 35 (effective depth 28 mm) (Ref.: 73506H). In this case the rebate depth for the glass is 12 mm top and bottom, the thickness of the wedging under the glass sheet in the sill profile is 11 mm and the recommended sheet height is that of the floor-ceiling opening less 41mm.
For an even more refined construction, it is possible to use the same profile at the floor and ceiling (Ref. 73505G). In this case the glass is only rebated in the head and sill by 13mm and the height of the glass panels is equal to the floor-ceiling distance less 40mm.
The number of fixed glazing panels to be installed determines whether or not it is necessary to use a glazing bead profile (73513Q + 73514R) at the end of the façade in order to insert the

last panel. If the number of fixed glazing panels making up a wall is limited to 1 or 2, a glazing bead profile must be used. We recommend placing it in the vertical jamb at the end of the partition, at the opposite end from the one in the door frame if appropriate. The last panel installed is always the one held in the glazing bead profile.
If the fixed wall consists of at least 3 adjoining glass panels, it is not necessary to use the glazing bead profile and a U-section is recommended due to the ease of assembly.

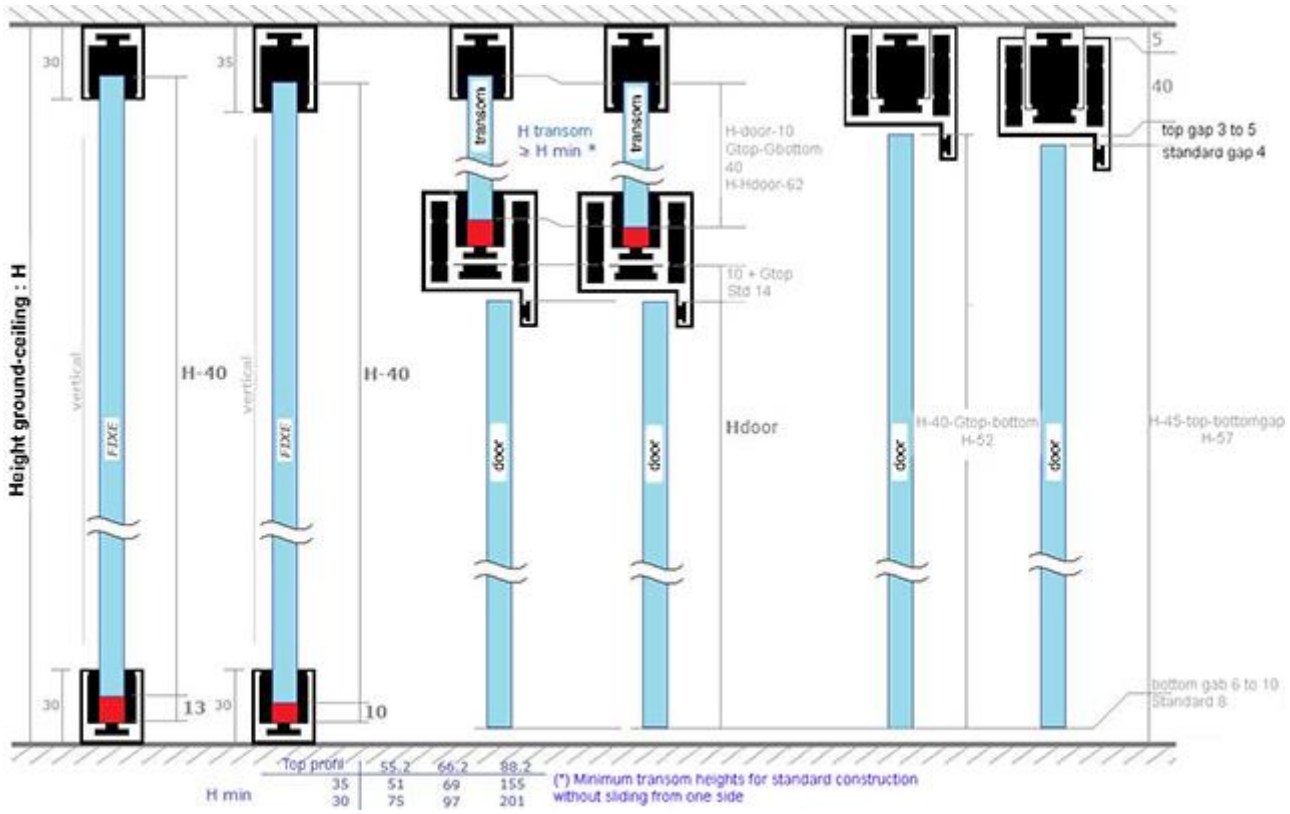


Detail of door frame assembly

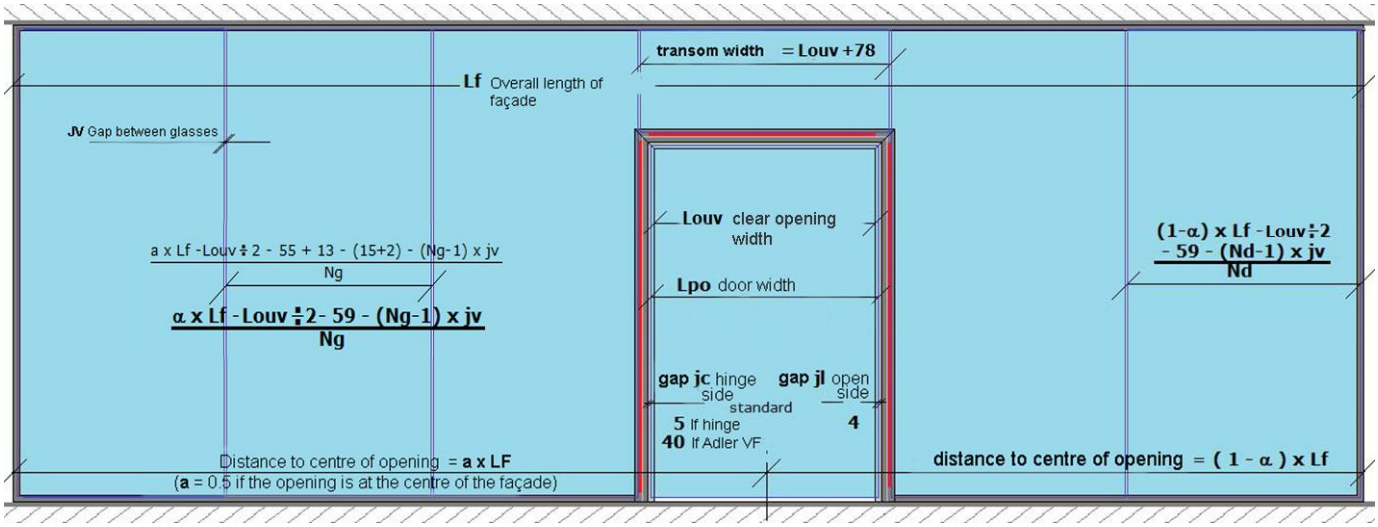


Design rules for a rebated construction

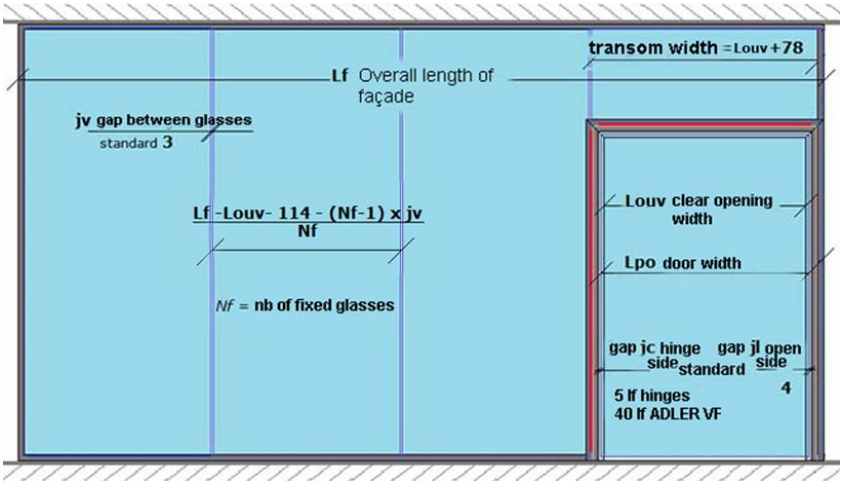
Height sizing of fixed panels, doors and transoms:

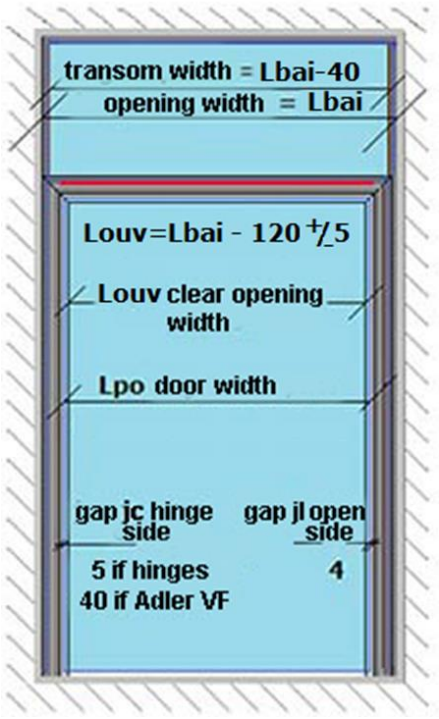


Width sizing of fixed panels, doors and transoms:



Special case of a partition with a door at the end.





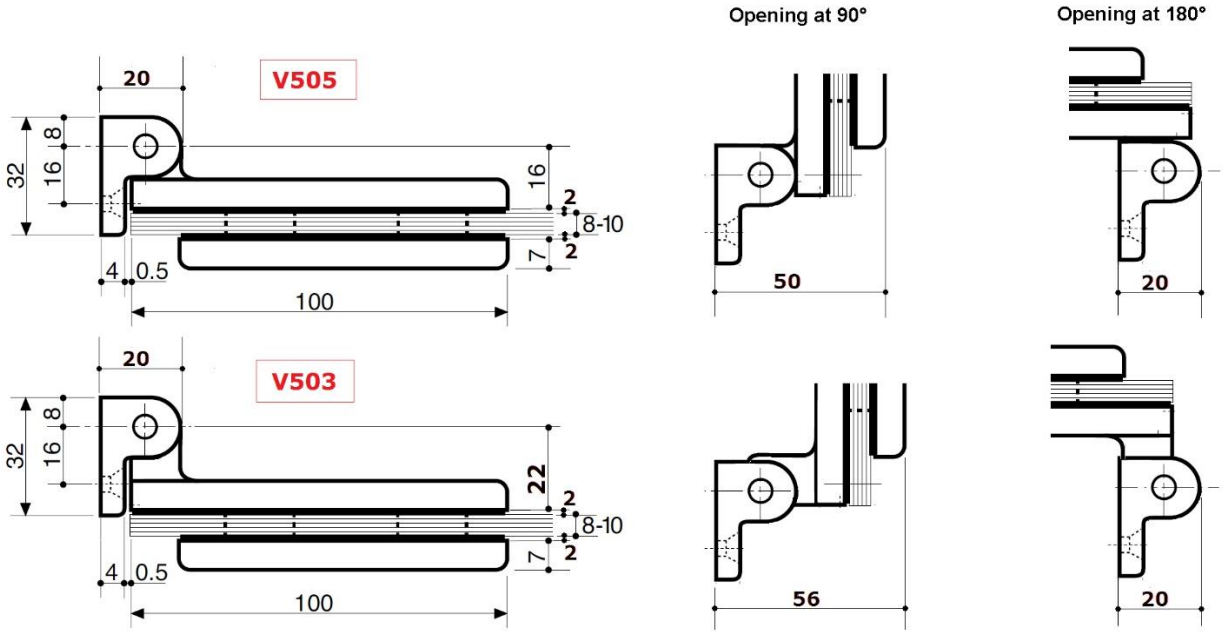
With this flush-mounted transom construction, use a glazing bead profile on the hinge side.

Special case of a door under a flush-mounted transom.

Formular :

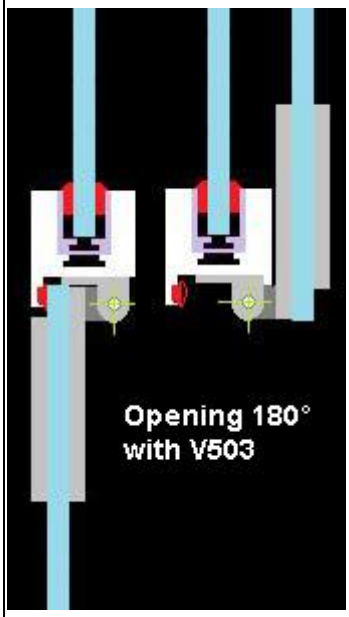
Single door	V505 - Hinge	V503 - Hinge	ADLER VF - Hinge
Opening at 180°	$Lpo = Lpa + 26$ $Louv = Lpa + 5 = Lpo - 21$		
Opening at 90°	$Lpo = Lpa + 56$ $Louv = Lpa + 35 = Lpo - 21$	$Lpo = Lpa + 62$ $Louv = Lpa + 41 = Lpo - 21$	$Lpo = Lpa - 2$ $Louv = Lpa + 12 = Lpo + 14$
Double door	V505 - Hinge	V503 - Hinge	ADLER VF- Hinge
Opening at 180°	$Lpo = \frac{Lpa}{2} + 14$ $Louv = Lpa + 10$		
Opening at 90°	$Lpo = \frac{Lpa}{2} + 44$ $Louv = Lpa + 70$	$Lpo = \frac{Lpa}{2} + 50$ $Louv = Lpa + 82$	$Lpo = \frac{Lpa}{2} - 15$ $Louv = Lpa + 24$

Lpa : Clear opening width



Different door systems

Butt hinges RENATO FATTORINI



V503

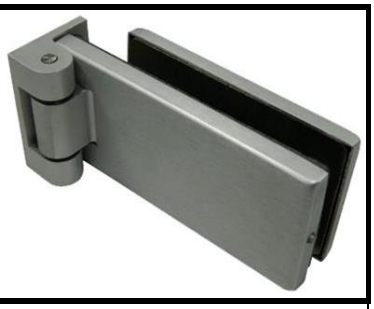
Ref. ADLER
73176Q Bss
73177R natural anodized

The V503 butt hinge has an elongated clip which allows **the door to open 180°.**

V504

Item on request

The V504 butt hinge is the traditional hinge solution for the CLARIT door.

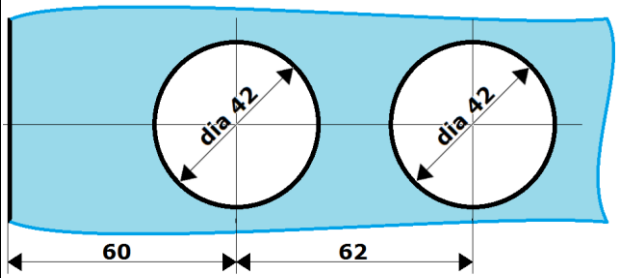


V505

Ref. ADLER
731XXX Bss
73121F natural anodized
73123H chromed

The V505 butt hinge is the square version of the V504, marrying perfectly with the angular lines of the aluminium partition.

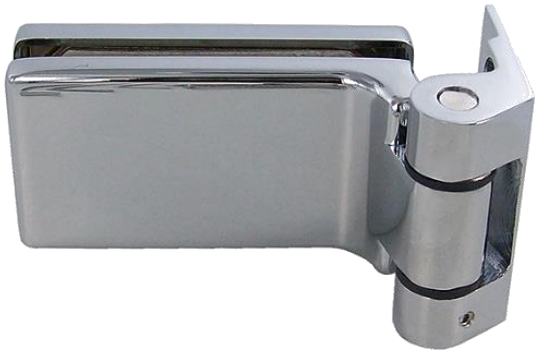
Lock 731



Lever handle lock with Euro cylinder with bolt locking (advance pitch)
73187B
73151N
73153Q

Lever handle lock without cylinder
BSS
73189D
Natural anodized 73130Q
Chromed
73132S

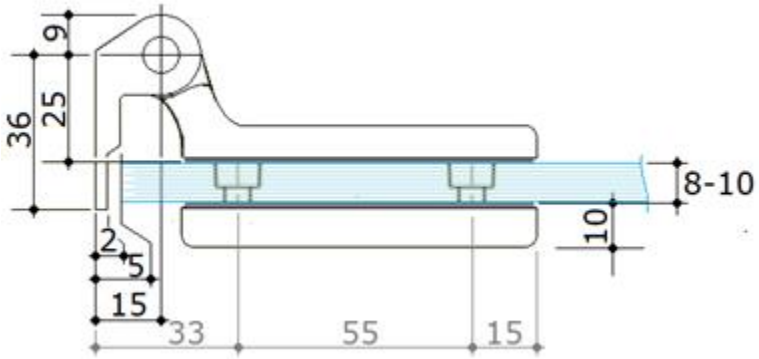
Butt hinges ADLER

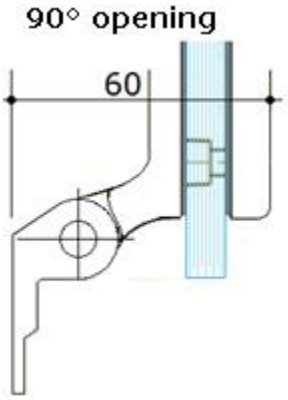


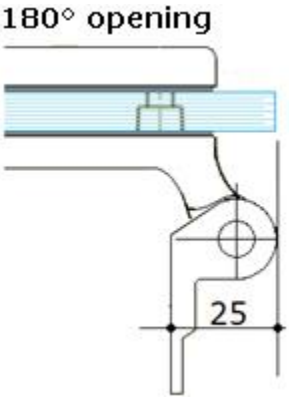
These hinges are interchangeable with those above.
They are available in 2 finishes:

Polished stainless: 72854Q
Matt stainless: 72855R

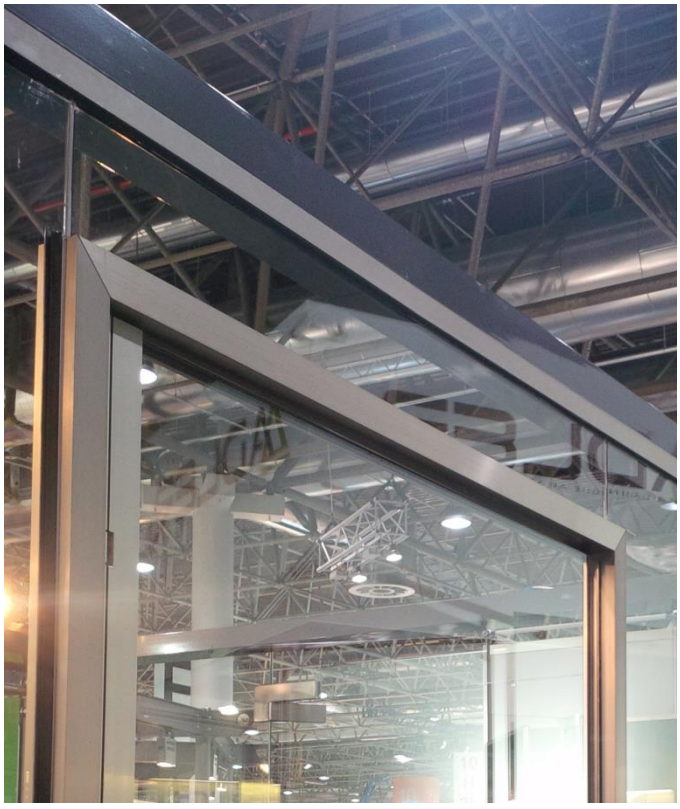
For glass of 8 to 10 mm in slot 6200F







Anti finger trap butt hinge ADLER-VF



Self-closing hinges CAPSI

Handles ADLOCK

The ideal partition system for laminated, non-toughened glass structures. To complement these façades perfectly, the Adlock handles allow doors to be operated and bolted securely, even in laminated, non toughened glass.

Security bolting at 1 or 2 points (floor and/or ceiling).

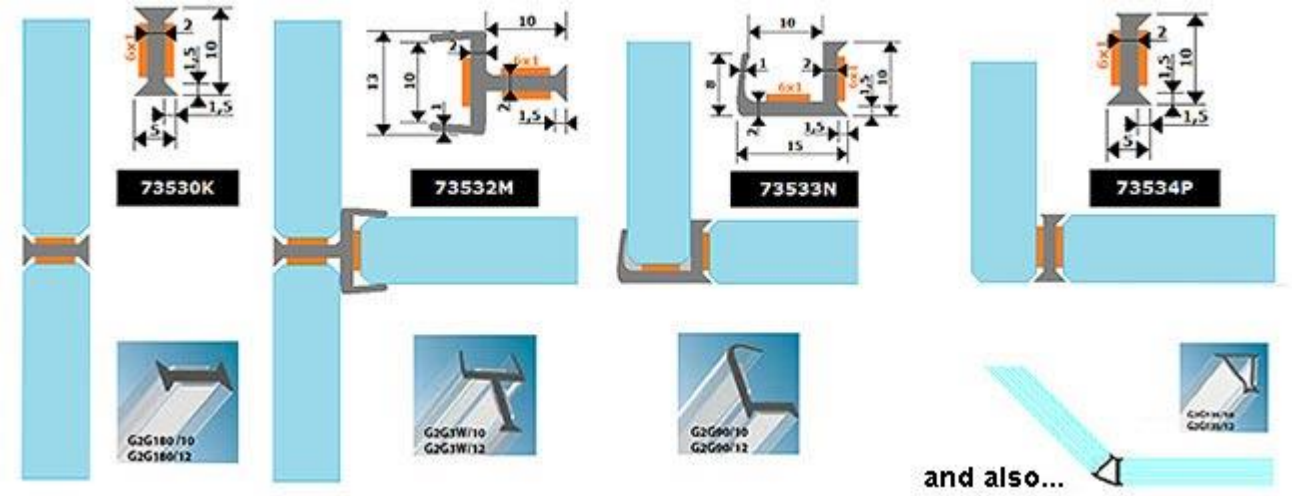
Fixing by very strong mechanical tightening in 2 special washers 60mm in diameter: principle designed and patented by ADLER SAS.

Options

Other finishes

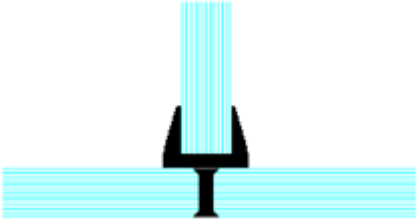
Available on request: natural anodizing called "silver"; lacquering; …

Accessories for jointing the glass panels of a fixed partition



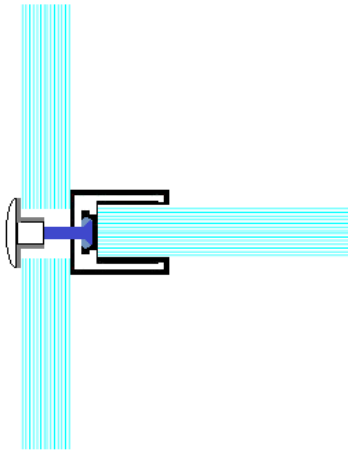
Options for building a complex partition

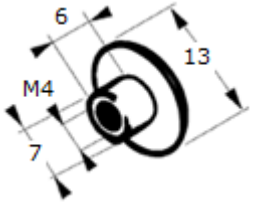
Fixing laterals or bracing panels

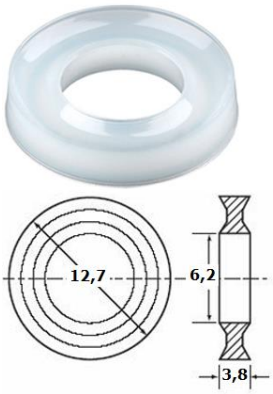


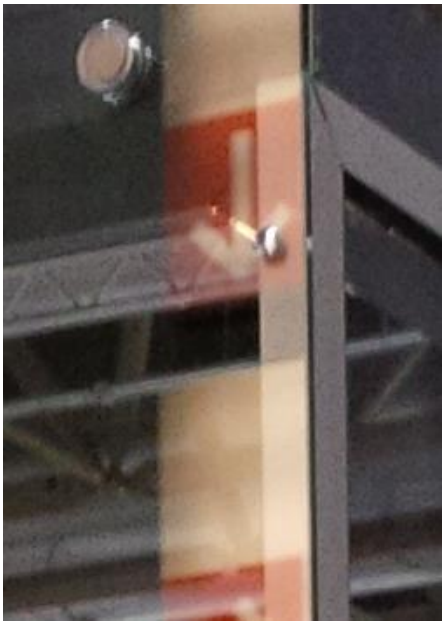
To fix bracing very discreetly, assuming that the façade stresses against it are limited, the PPMA jointing sections can represent an easy to use and effective solution.
See above

For an original solution without any plastic seals, a partition can be fixed very rigidly to an intermediate partition starting point or bracing panel. Kit comprising 10 retaining and safety washers, 10 chrome plated caps 08522P (dia 13mm), 10 washers PP 08505V and 10 screws FHC M4x12 00583K









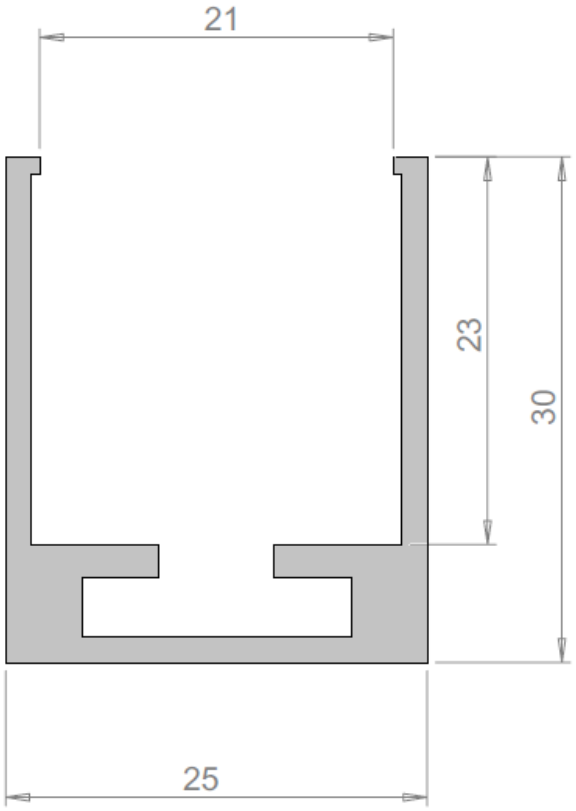
Self-supporting partitions

With a top beam to stiffen the partitions.

ANNEX

MECHANICAL PROPERTIES OF PROFILES

Dimensions, section, inertia



Area = 175.40 millimetres^2

Centre of gravity relative to the start of the exit coordinates system: (millimetres)
X = 0.00
Y = 9.44
Z = 1000.00

Moment of inertia of the area at the centre of gravity: (millimetres ^4)

Lxx = 13628.88	Lxy = 0.00	Lxz = 0.00
Lyx = 0.00	Lyy = 17522.34	Lyz = 0.00
Lzx = 0.00	Lzy = 0.00	Lzz = 31151.22

Polar moment of inertia of the area at the centre of gravity = 31151.22 millimetres ^4)

Angle between the main axes and the room axes = 0.00 degrees

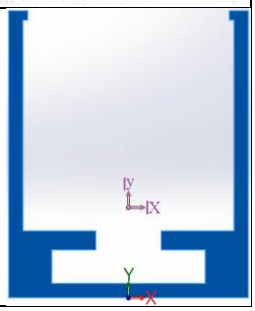
Main moments of inertia of the area at the centre of gravity : (millimetres ^4)
Ix = 13628.88
Iy = 17522.34

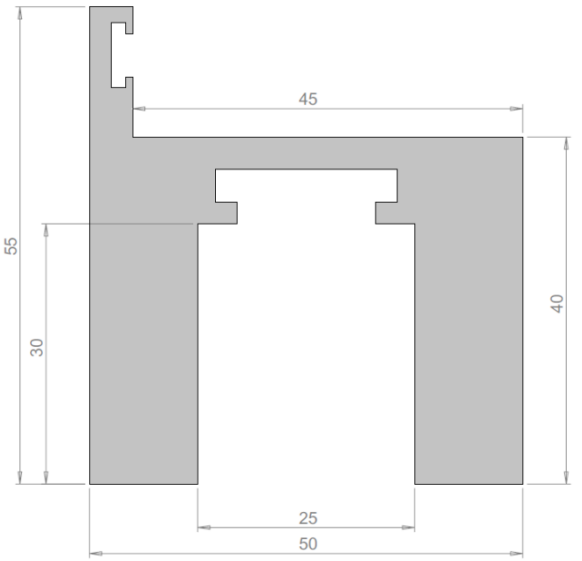
Moment of inertia of the area at the exit coordinates system : (millimetres ^4)

LXX = 175429242.87	LXY = 0.00	LXZ = 0.00
LYX = 0.00	LYY = 175417522.34	LYZ = 1654900.00
LZX = 0.00	LZY = 1654900.00	LZZ = 46765.21

Mechanical properties of **aluminium profile** for rebated installation,
Ref. 735 05G.

Standard length = 6.00m





Area = 577.50 millimètres^2

Centre of gravity relative to the start of the exit coordinates system: (millimetres)
X = -2.30
Y = 26.47
Z = 0.00

Moment of inertia of the area at the centre of gravity: (millimetres ^4)

Lxx = 123505.67	Lxy = 27283.83	Lxz = 0.00
Lyx = 27283.83	Lyy = 182434.24	Lyz = 0.00
Lzx = 0.00	Lzy = 0.00	Lzz = 305939.91

Polar moment of inertia of the area at the centre of gravity = 31151.22 millimetres ^4)

Angle between the main axes and the room axes = 0.00 degrees

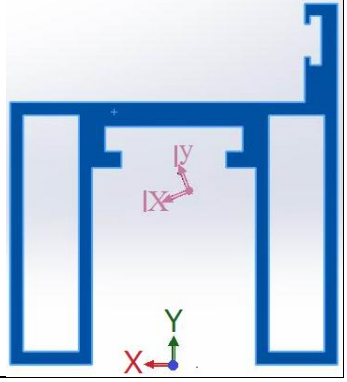
Main moments of inertia of the area at the centre of gravity : (millimetres ^4)
Ix = 112813.37
Iy = 193126.54

Moment of inertia of the area at the exit coordinates system : (millimetres ^4)

LXX = 528221.72	LXY = -62488.96	LXZ = -0.00
LYX = -62488.96	LYY = 185496.64	LYZ = 0.00
LZX = -0.00	LZY = 0.00	LZZ = 713718.35

Caractéristiques mécaniques du **profil aluminium** pour montage en feuillure,
Réf. 735 04F.

Longueur standard = 6m50




Sécurité sérénité pour l'avenir
Carrière en toute sécurité


EAST
SOUTH


TESTING 1 2


ABACUS
RAL 9010

100 ANS ADLER

1910 Creation of the Company

1929 A. ADLER

1967 Acquisition of patent for "Assembly device for aesthetic fixing of door handles" registered on 9/02/1963 by Robert Hermann

2008 Adlock patent for bolting device for door with cremone bolt