



HARDWARE SYSTEM FOR DOORS AND WINDOWS



ABACO

Modular system
of fittings for
shutters

Added strength to tradition

The shutter is more than a mere screen that shuts out the light and protects from the weather.

Whether a shutter or a blind, whether single or multi-leaf, we expect it to be also theft-proof as well as to blend with the style of the building with which it is incorporated, in perfect harmony with its architecture.

To meet these requirements, the shutter must be the result of careful study and design as to all of





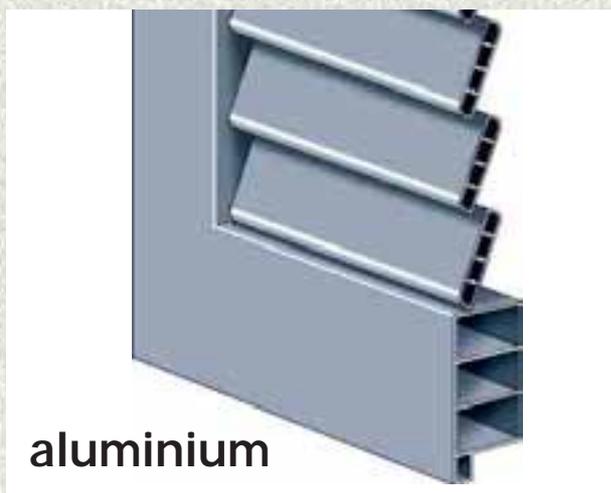
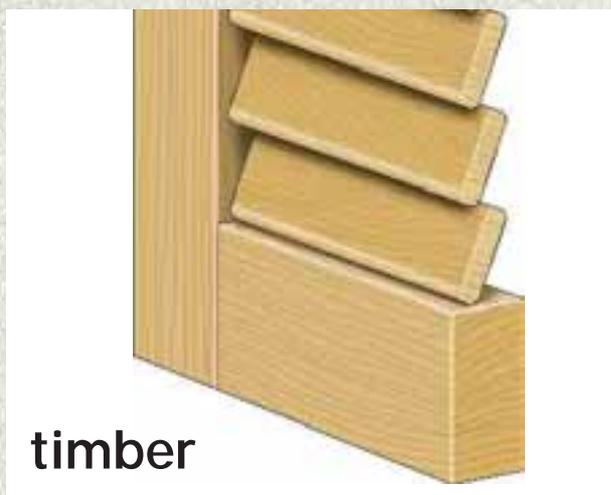
ABACO

its components, last but not least the fittings.

The features of the fittings are indeed an essential to the aesthetics, functionality, safety and dependability of the shutter as a whole. These are the reasons why AGB has developed ABACO, the modular system of fittings for shutters that enhances an excellent tradition with innovative and reasonable solutions.

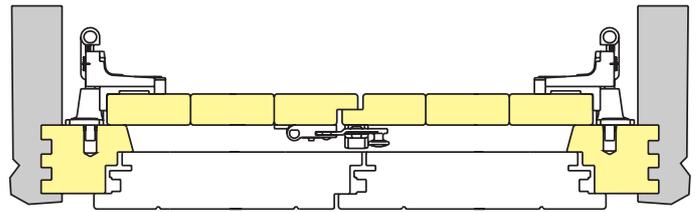
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The ideal fittings for shutters made from ...

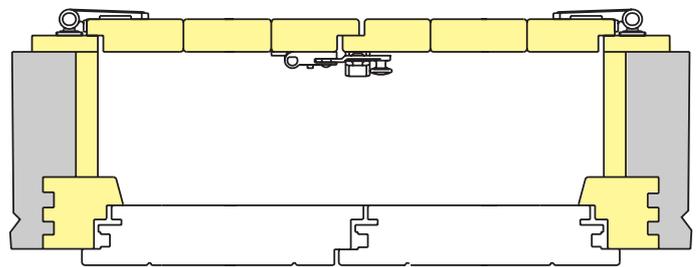


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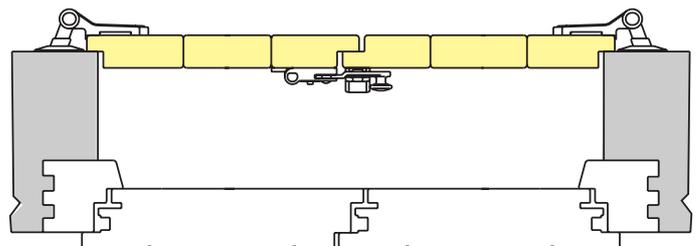
Simple and effective solutions



Shutters with adjustable hinges

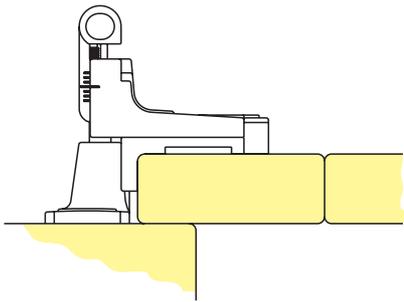


Shutters on wainscotted reveal

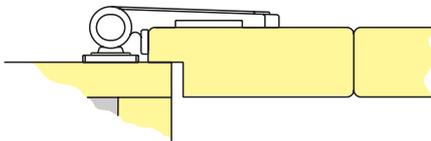


Wall shutters

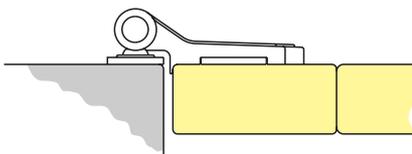
for any type of construction



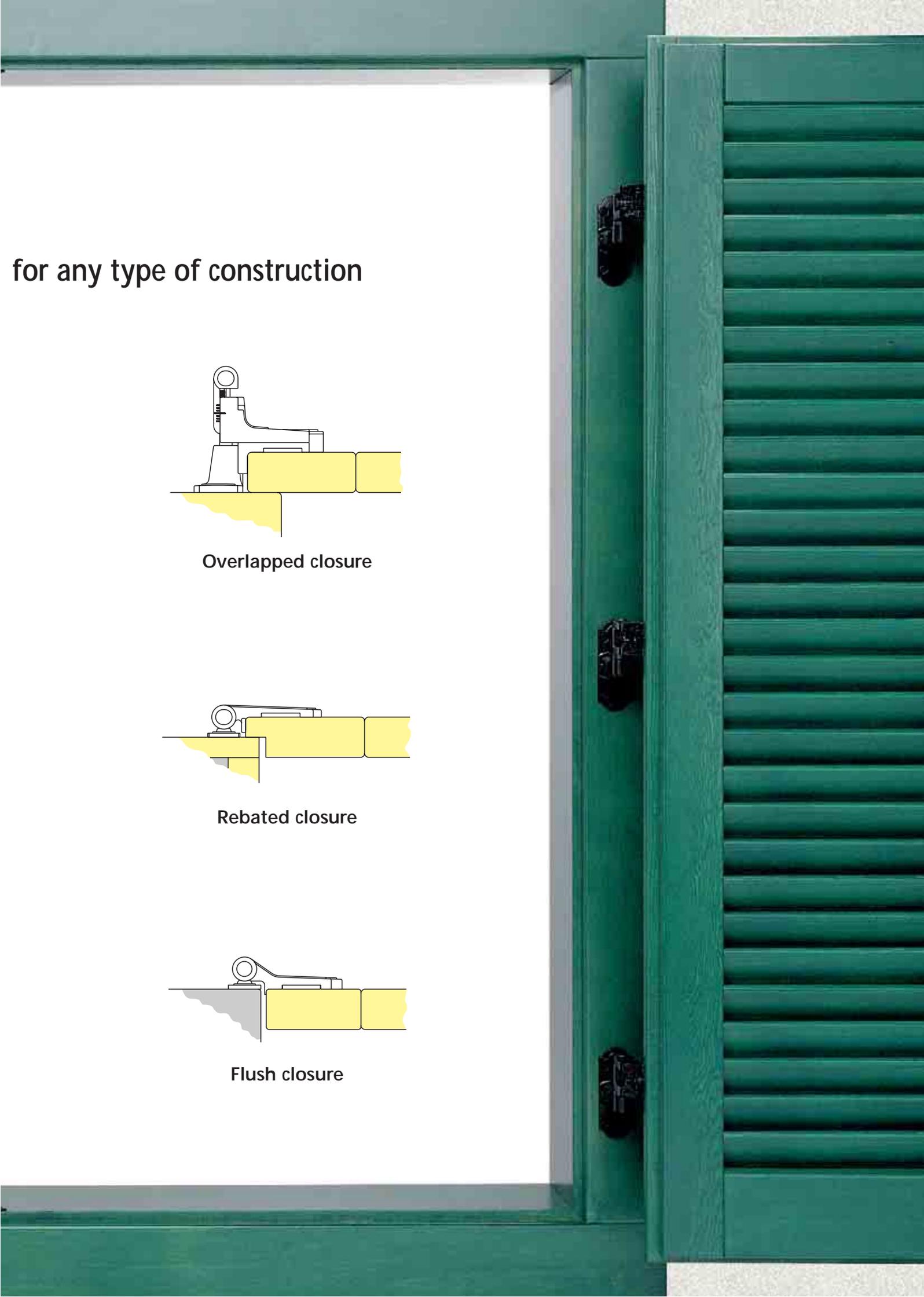
Overlapped closure

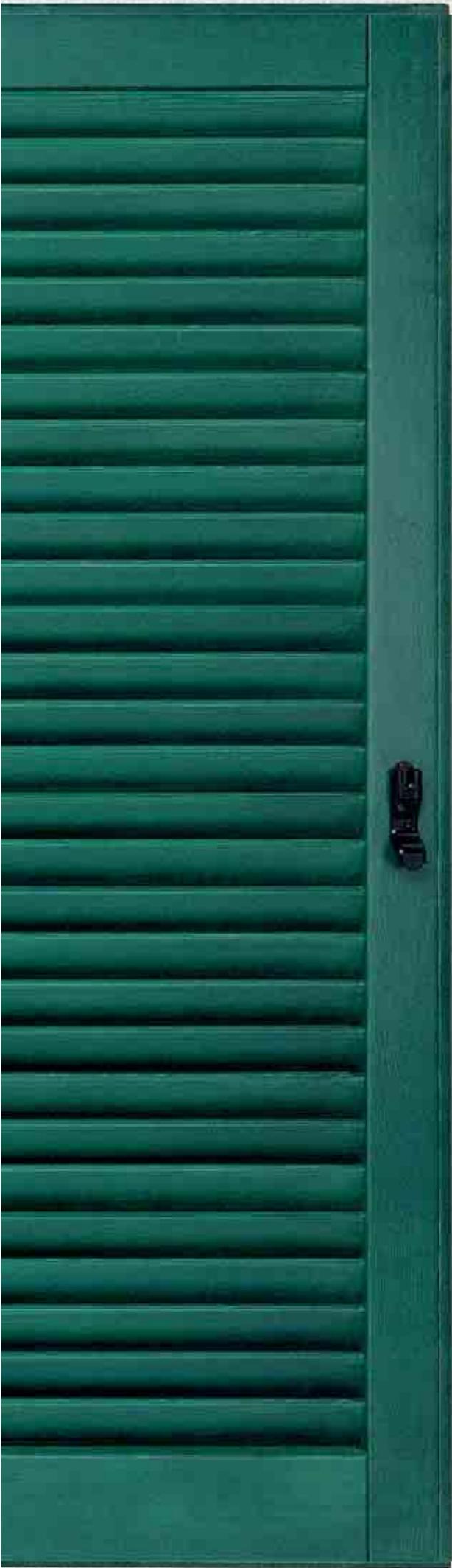


Rebated closure



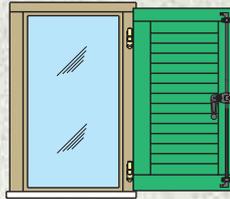
Flush closure



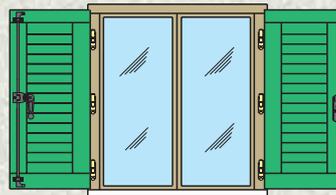


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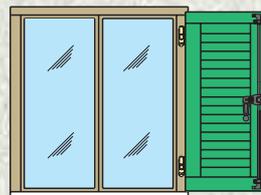
Functional and safe
shutters for any
opening system



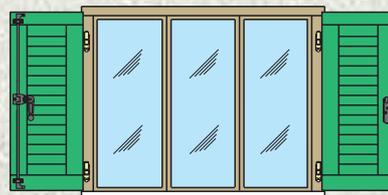
Single shutter.



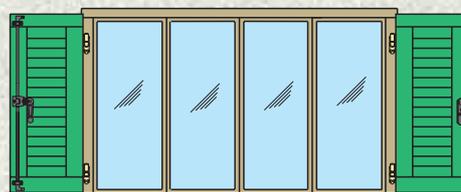
Double-leaf shutter.



Double-leaf folding shutter.



Triple-leaf shutter.



Four-leaf folding shutter.



More combinations with reduced stock

This system consists of various modular components that can be combined according to the different structural requirements. Hinges, connecting plates and brackets are supplied separately. This in the aim to simplify the storekeeping procedures and yet be able to meet any structural requirement, even at the last minute.



Withstands any climate

ABACO components come in BLACK or BICHROMATED finish.

The BLACK enamelling is applied by cataphoresis, a treatment that ensures maximum resistance to atmospheric agents even in areas where the climate is most aggressive.

This enamelling system is widely used in the automotive industry, to give but one example, both because it is corrosion-resistant and because it can reach and protect

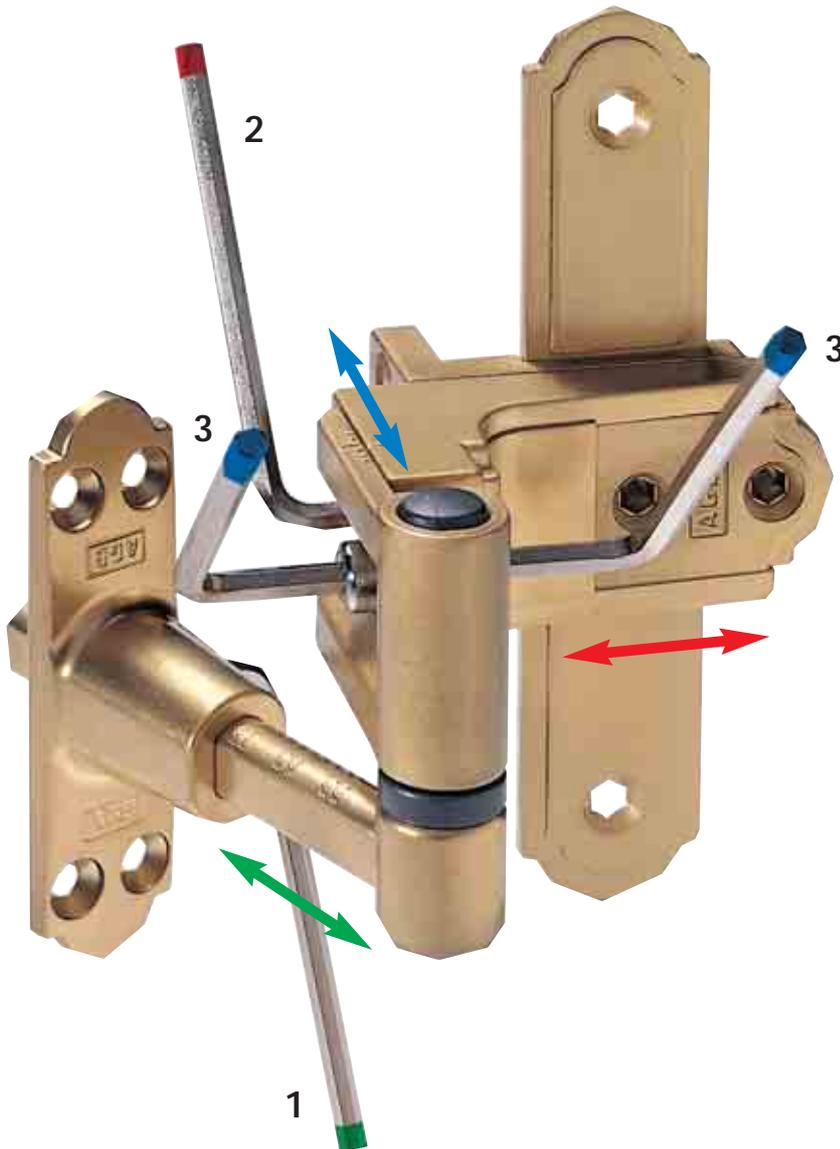
Just one spanner for all adjustments

ABACO allows to perform a wide range of adjustments by using just one 4 mm allen spanner. All adjusting screws are made from stainless steel.

The side adjustment of the shutter is performed by acting the spanner (2).

The axial adjustment is performed in two ways:

- first by acting on the frame hinge (1), for quick and accurate shutter positioning;
- secondly by exerting pressure on the sash hinge (3), on either side, in order to make up for working tolerances or any deformation of the leaf.



also parts which otherwise would be inaccessible (inner parts, bendings, couplings ...).

The BICHROMATED finish is accomplished by applying an exclusive sealing product called FINIGARD on top of the traditional static zinc plating followed by chromic passivation UNI/ISO 2081. This dual treatment makes ABACO products extremely resistant to corrosion, whatever the climate.





Easier transportation and installation

One of the advantages offered by the ABACO modular system lies in the possibility to fit the hinges even at the very last minute, on site.

This makes transportation and handling much easier, thanks to the limited space taken up by the shutters.

In addition, by just replacing the hinge during installation you will be able to make up for any differences, even remarkable ones, between the original project and the actual dimensions of the reveals.



1 Sash hinge

The sash hinge is of one type and ambidextrous. It can be used in all typologies, in the flush, rebated and overlapped closure systems. It comes in four sizes and must be chosen according to the depth of the wall reveal.

Extractable bushing of self-lubricating plastics (Hostaform-M): makes the hinge ambidextrous and ensures an extremely smooth movement; prevents rust formation.



Side adjustment +/- 4mm through stainless steel screw, to be performed with a 4 mm allen spanner.

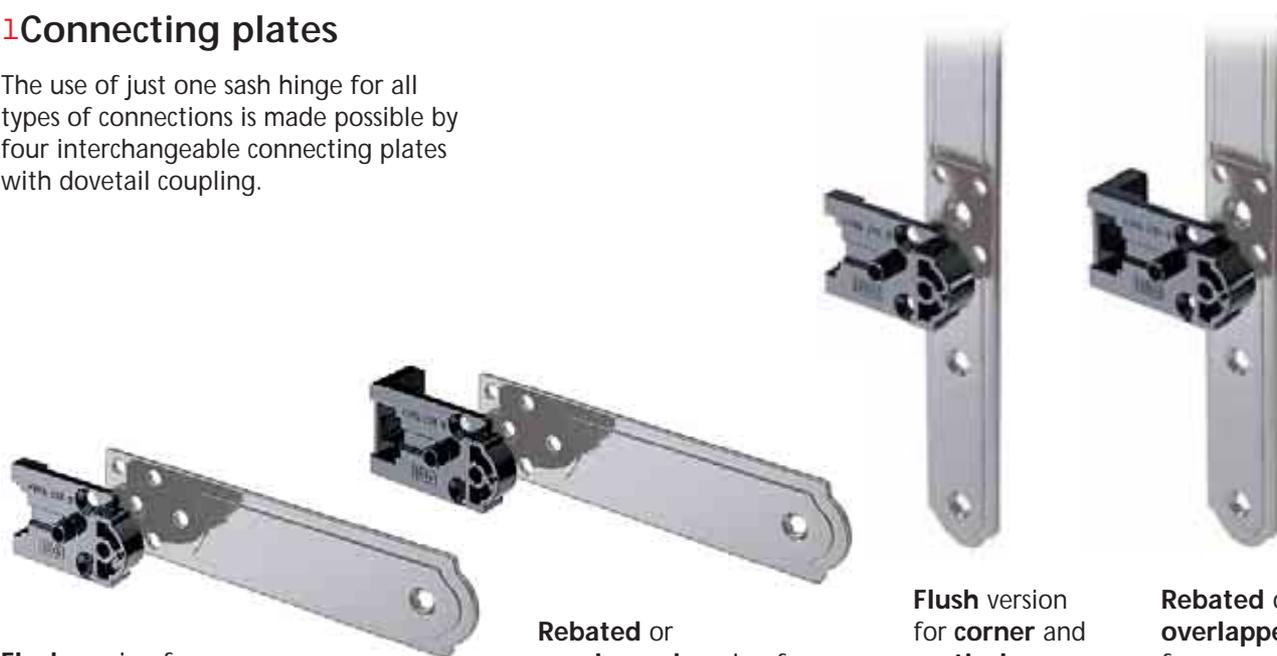
Depth adjustment on both sides of hinge, without impairing the theft-proof safety of the system.

Holes for fitting theft-proof screws.

Adjustment ranges: Gr. 0 and 1 +/- 6 mm
 Gr. 2 +/- 10 mm
 Gr. 3 +/- 12 mm

1 Connecting plates

The use of just one sash hinge for all types of connections is made possible by four interchangeable connecting plates with dovetail coupling.



Flush version for **horizontal** brackets

Rebated or overlapped version for **horizontal** brackets

Flush version for **corner and vertical** brackets

Rebated or overlapped version for **corner and vertical** brackets

Components

1 Frame hinge

The ABACO frame hinge is adjustable and comes in four different sizes.

Ambidextrous bracket made from die-cast metal alloy. Can be supplied with either narrow plate (25 mm) or large plate (36 mm); various sizes available, to be chosen according to the type of structure and size of the reveal.

Rear centering guide for truing up the shank with the bracket.

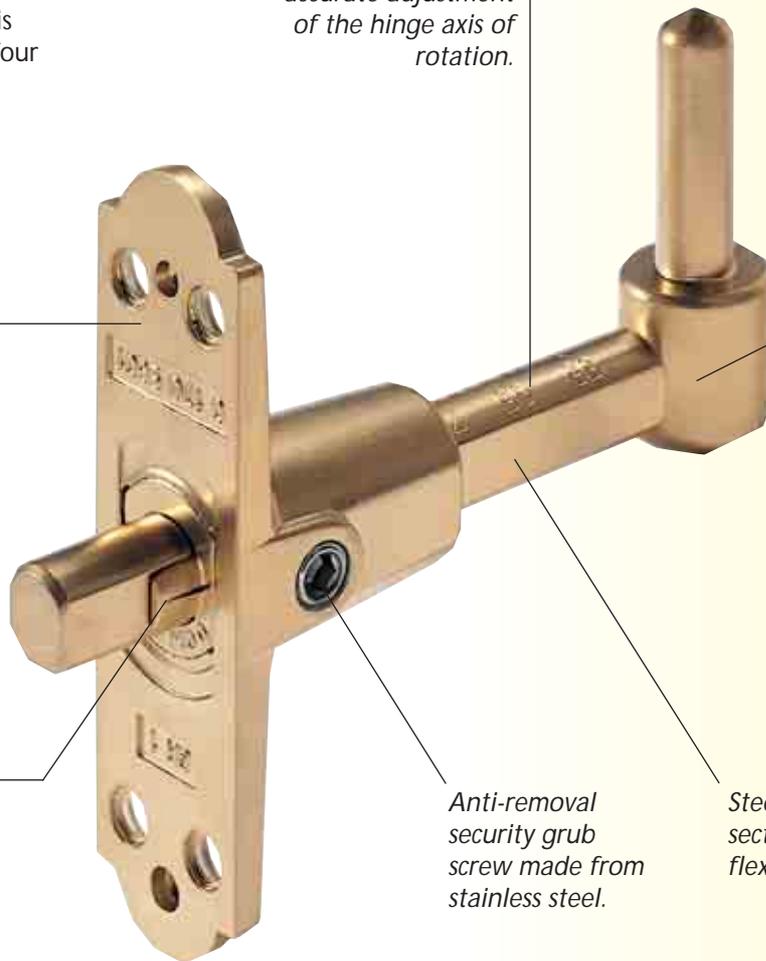
Millimetric scale for accurate adjustment of the hinge axis of rotation.

Pivot of pressed steel, diameter 18 mm and pin 9 x 30 mm.

The connection between pivot and shank is made extremely resistant by induction welding.

Anti-removal security grub screw made from stainless steel.

Steel shank with oval-vertical section that increases the flexural strength.



1 Corner brackets

They are used to strengthen the connection between the jamb and rails of the shutter on the hinge side. Particularly suitable for blinds. They are made from pressed steel and are available in the left-hand side or right-hand side versions, with two coupling positions for the connecting plate: 96 mm and 150 mm.



1 Horizontal brackets

Their use helps preventing the vertical slats from becoming unstuck and the edge of bulky leaves from dropping. They are made of pressed steel and come in three different lengths: 160 mm, 245 mm, 330 mm.



1 Vertical brackets

They are normally used as central bracket in combination with the corner brackets. They can replace the corner and horizontal brackets in those shutters that do not require structural reinforcements and therefore where the hinges can be secured to the stile only. Available in one version made of pressed steel 28x140x3 mm.



1 Hinge lock

To be fitted on the lower frame hinges, it holds the leaf open to the maximum degree and acts also as anti-lift device. It can be released easily with just one hand. The leaf can be installed in any open position, except at 180° (locked position). The Kit includes the spring loaded bumper with rubber pad.



1 Wall catch for shutters

Holds the leaf wide open, securing it to the wall. Although it is particularly suitable for doors, thanks to its small size the stricker can be fitted also on the bottom rail of any shutter. The height of stricker can be adjusted (+/- 6 mm), ensuring correct use of the catch at all times. The minimum distance between the wall and leaf is 25 mm. In case of greater distances, 5 and 15 mm shims are available, which can be superimposed.



1 Stiffening corner brackets

They are used to strengthen the union between the jambs and rails of the shutter, on the side opposite the hinges. In some cases, they can be used merely for aesthetic purposes. Pre-arranged for fitting anti-theft screws.



1 Central hinge for folding shutters

It is used in the case of multi-leaf folding shutters. Two versions available: **In line**: for leaves folding towards the outside; the hinge is fitted on the inner side. **Out of line**: for inside-folding leaves; the hinge is fitted on the outer side.



1 Hinges with low neck

To be used in combination with pintles. Available in four different models, to be chosen according to: - the coupling - with corner and vertical brackets or with horizontal brackets; - the height of hinge neck, either 0 or 15 mm.



1 Pintles

They are used in case of limited depth of the reveal or when the frame is flush with the exterior wall. Two versions available: **fixed**: distance between pivot and base centers: 12, 15, 18, 20, 22 mm; **adjustable**: distance between pivot and base centers can be adjusted between 12 and 45 mm by means of a threaded shank M12x70.



Components

1 Bumpers

Available separately in the following version: single rubber piece (rigid); spring-loaded with rubber pad. Height: 25 the rubber bumpers, 27 mm the spring-loaded ones, both with Ø 28 mm Superimposable shims measuring 5 mm each available for special applications.



1 Shim for hinges

To be used as a compensating shim in cases where the structure of the shutter allows to secure the hinge directly to the leaf without brackets.



1 Theft-proof screws

Stainless steel screws in eight different sizes. The smooth outer head and hexagonal sub-head make it impossible to unscrew them from the outside when the shutter is closed. They are fitted from the inside by means of a threaded bush suitable for a 4 mm allen spanner.



1 Locking sets

- 1 The handle is not pre-assembled. It can be positioned at any height.
- 2 In double leaf systems, the handle ensures optimum safety also in the half-open position.

The stay of the second leaf has been so designed that it will not damage the painting of the shutter during opening and closing.

- 3 Closing hooks: their special profile ensures optimum resistance to any deformation of the casing due to humidity or temperature changes.
The leaf pressure can be adjusted by acting on the closure pins with a 4 mm Allen spanner.
- 4 Top- and bottom-expansion vertical lock systems, complete with pit and rotation compensating devices.





The supplied data and pictures are to be considered valid saving any printing error or modifications introduced by the manufacturer.



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