

B|a|S|y|s
Bartels Systembeschläge GmbH

PIVOTA® DX Series

Selected 3-D Adjustable
Concealed Hinges
For Flush Doors

hidden from view / extremely effective

BaSys PIVOTA® DX

Advantages of the system.

The construction principle of the PIVOTA® DX series offers advantages based on two essential technical features:

First, all forces acting on the kinematic guide are taken up by horizontally located axes. This type of piston guide or surface guide ensures a very high level of functional security.

Second, the four-knuckle joint interlocks precisely to prevent twisting or tilting, even under high stress.

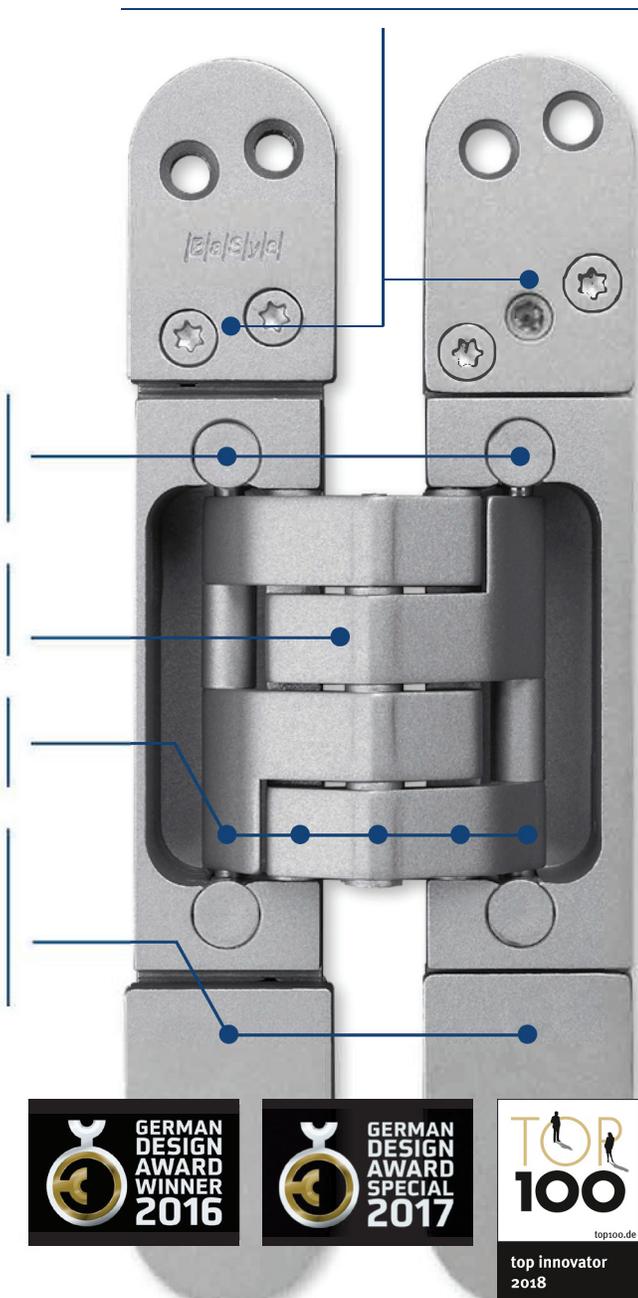
In conjunction with the piston guide, the five-axis joint is designed for long-term, maintenance-free operation.

The **- Design** option is the ideal choice for a purist look without any affixing or adjustment screws. Magnetically attached cover plates provide easy access to the screws while concealing them in a clean and functional way.

BaSys hinges are made of high-quality materials such as aluminum, solid steel, stainless steel and/or alloys.

PIVOTA® DX hinges are 3-dimensionally adjustable.

Clamping plates with tothing enable load-independent adjustment of the door height and the lateral closing pressure against the seal. The gap clearance can be adjusted by means of adjustment screws in the door leaf.



award-winning innovation

PIVOTA® DX concealed door hinges are engineered to line-up: hinges across most model ranges have the same dimensions and identical milling patterns, and yet they cover widely differing load-bearing capacities. This is thanks to material hybrid technology. The higher the weight of the door, the higher the share of steel components used. It allows for a consistent look across doors of differing sizes and performance requirements.

for thinner and lighter doors up to 132 lbs. and 176 lbs. with two hinges installed.



DX 38 N 3D - Design



DX 58 3D - Design

identical hinge mortises for doors weighing 176 to 264 lbs. models with integrated closers. models in Steel and Stainless Steel.



DX 61 3D - Design



DXS 61 3D - Close



**DX 101 3D - Design and
DXS 101 3D - Design/Steel**



DXE 100 3D - Enox

a solution for flush doors hung on frames recessed up to 15mm.



DX 80 3D ZA - Design

identical hinge mortises for heavier doors from 356 to 660 lbs with a wider throw for doors with cladding up to 8mm thick. models available in Solid steel.



DX 120 3D - Design



DX 180 3D - Design



DXS 180 3D - Design/Steel

for doors with maximum weight of 660 and 770 lbs. with two hinges installed. models available in Solid steel.



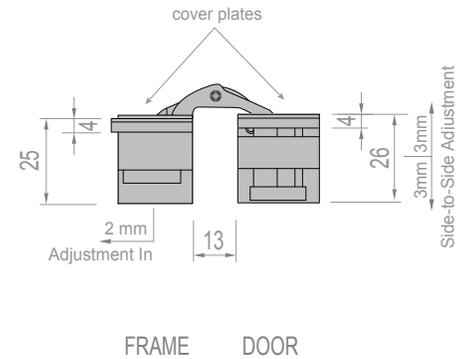
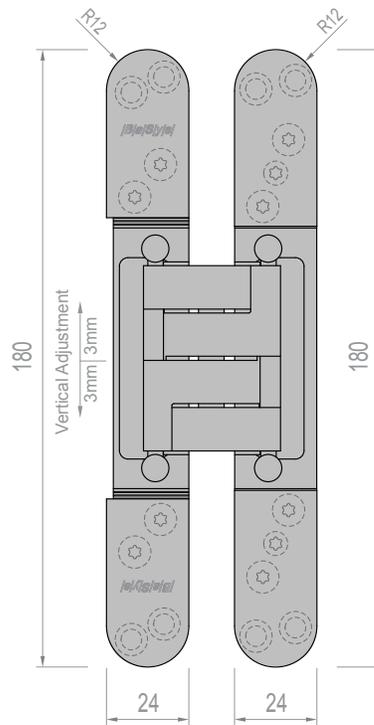
DX 200 3D - Design



DX 300 3D - Design



DXS 300 3D - Design/Steel



Drawing : open to 180°

3-D adjustable concealed hinge for flush doors. Provides increased throw for optimized milling tolerances. Hinge leaves are mortised into the frame and door. Magnetically fixed coverplates provide installation without visible fasteners.

Max Door Weight (per pair) / **132 lbs.** (60kg)

Min Door Thickness / **1-3/8"** (35mm)

Height / **7.08"** (180mm)

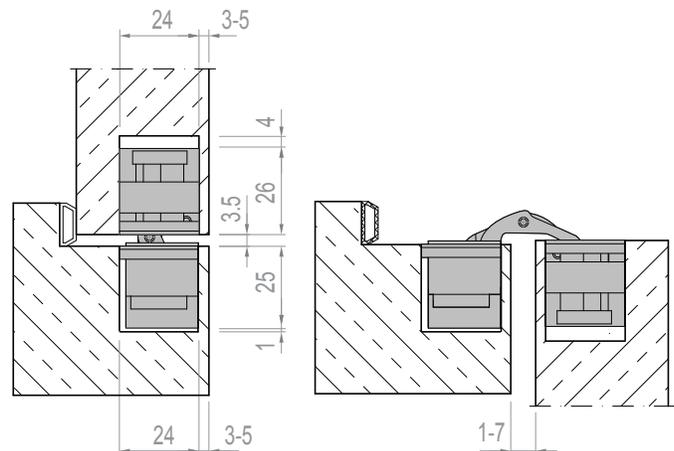
Width Frame-Door / **.94"** (24mm)

Accessories : Casing frame fixing plates and metal frame receivers available.

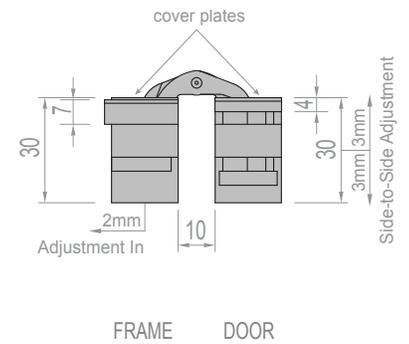
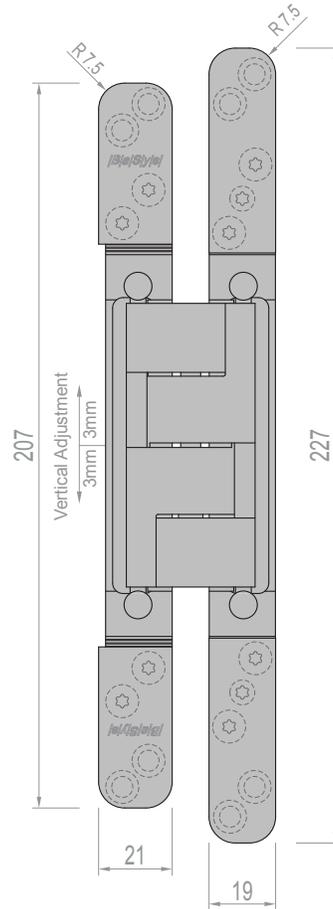
Model available without coverplates.

Finishes / SNL satin nickel look
SSL satin stainless steel look
DBZ dark bronze

Other finishes available on request. Please call for info.



Section of Wood Frame-Door Installation



Drawing : open to 180°

3-D adjustable concealed hinge.
An excellent solution for thinner doors.

Max Door Weight (per pair) / **176 lbs.** (80kg)

Min Door Thickness / **1"** (26mm)

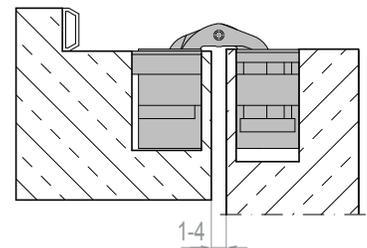
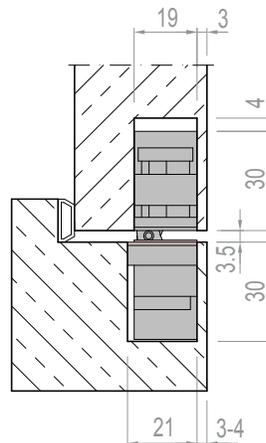
Height / Fr **8.94"** (227mm) : Dr **8.15"** (207mm)

Widths / Frame: **1.18"** (30mm) / Door **1.10"** (28mm)

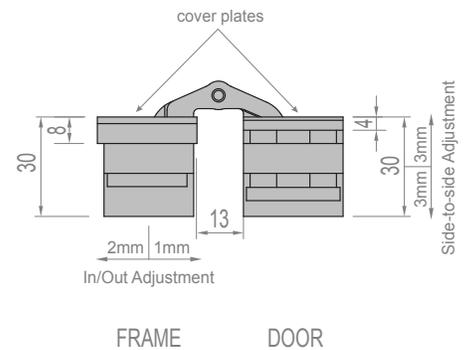
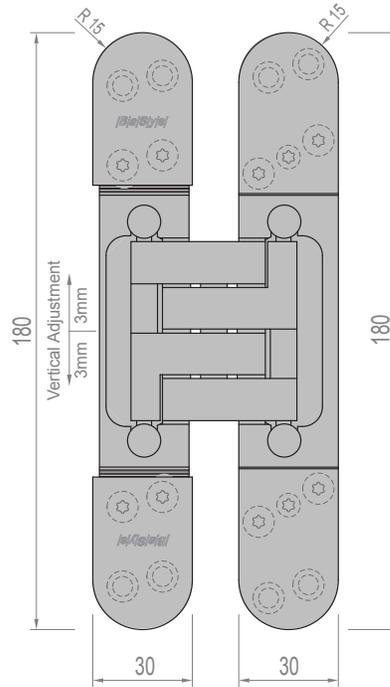
Accessories : Casing frame fixing plates and metal frame receivers available.

Finishes / SNL satin nickel look
SSL satin stainless steel look
DBZ dark bronze

Other finishes available on request. Please call for info.



Section of Wood Frame-Door Installation



Drawing : open to 180°

3-D adjustable concealed hinge for flush doors. Hinge leaves are mortised into the frame and door. Magnetically fixed cover plates provide installation without visible fasteners.

Max Door Weight (per pair) / **220 lbs.** (100kg)

Min Door Thickness / **1-1/2"** (38mm)

Height / **7.08"** (180mm)

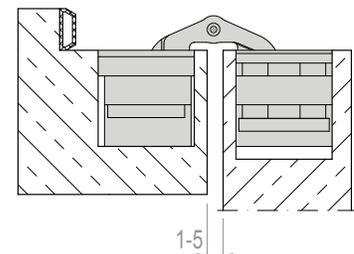
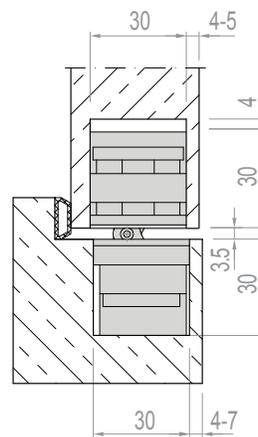
Widths / **1.18"** (30mm)

UL Listed / **30min.** 

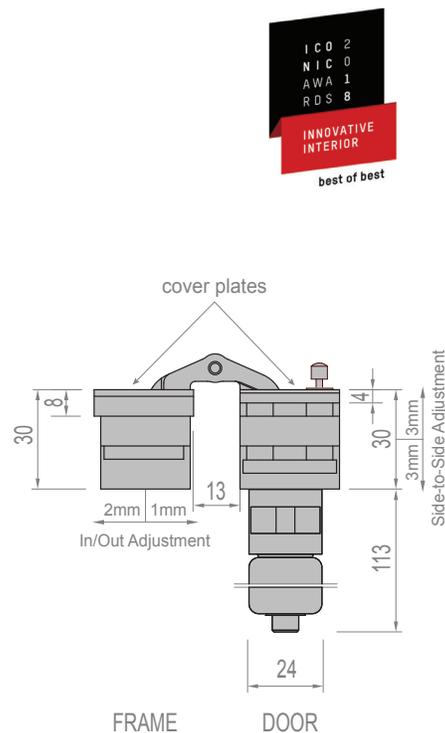
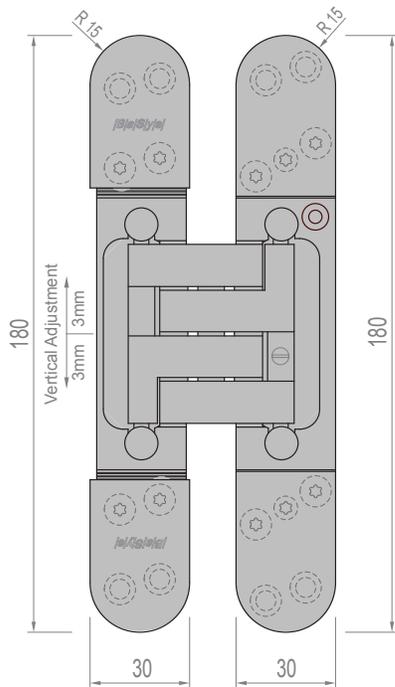
Accessories : Casing frame fixing plates and metal frame receivers available.

Finishes / SNL satin nickel look
SSL satin stainless steel look
DBZ dark bronze

Other finishes available on request. Please call for info.



Section of Wood Frame-Door Installation



Drawing : open to 180°

3-D adjustable concealed hinge **equipped with a concealed self-closing mechanism** and limited closing speed adjustment. Use two CLOSE hinges to attain closing force for a 176lbs door leaf. Integrated damper slows door as it finishes closing.

Max Door Weight (per one Close + one DX 61 3D) / **110 lbs.** (50kg)

Max Door Weight (per pair) / **176 lbs.** (80kg)

Min Door Thickness / **1-3/4"** (44mm)

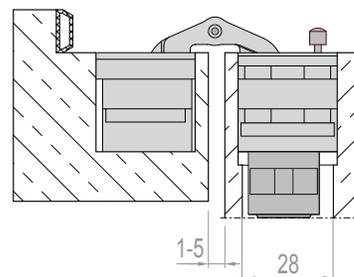
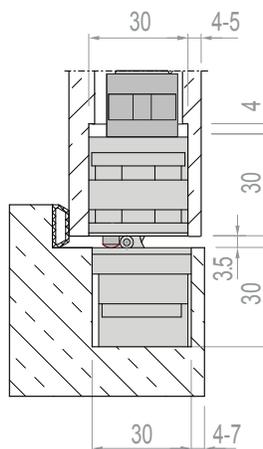
Maintenance-free bearings.

Height / **7.08"** (180mm) / Widths : **1.18"** (30mm)

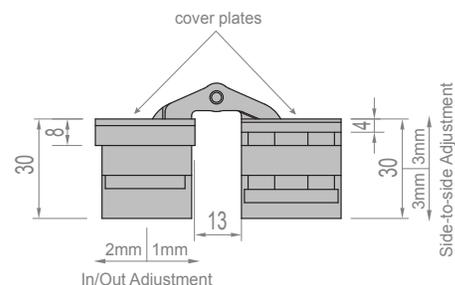
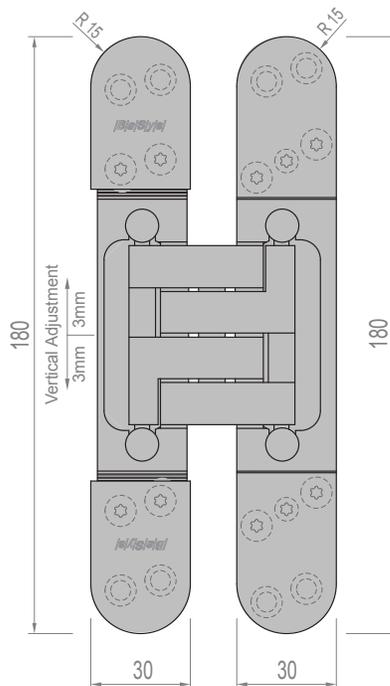
Accessories : Casing frame fixing plates and metal frame receivers available.

Finishes / SNL satin nickel look
SSL satin stainless steel look
DBZ dark bronze

Other finishes available on request. Please call for info.



Section of Wood Frame-Door Installation



Drawing : open to 180°

3-D adjustable concealed hinge for flush doors. Hinge leaves are mortised into the frame and door. Magnetically fixed cover plates provide installation without visible fasteners.

Max Door Weight (per pair) / **264 lbs.** (120kg)

Min Door Thickness / **1-1/2"** (38mm)

Height / **7.08"** (180mm)

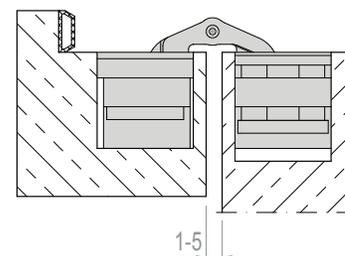
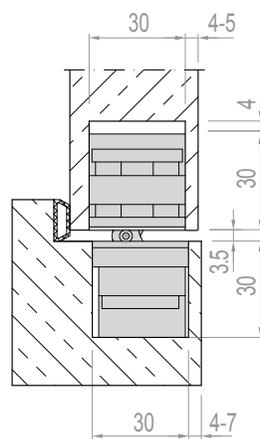
Widths / **1.18"** (30mm)

UL Listed / **30min.** 

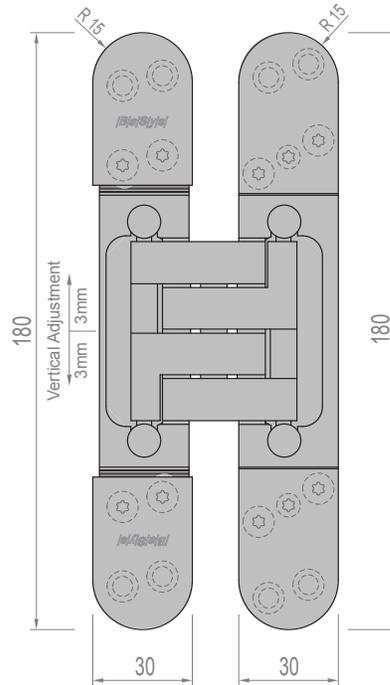
Accessories : Casing frame fixing plates and metal frame receivers available.

Finishes / SNL satin nickel look
SSL satin stainless steel look
DBZ dark bronze

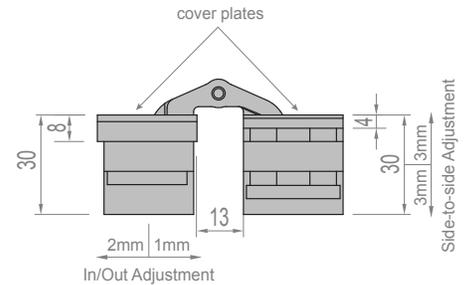
Other finishes available on request. Please call for info.



Section of Wood Frame-Door Installation



optional burglary protection stud



Drawing : open to 180°

3-D adjustable solid steel concealed hinge for flush doors. Hinge leaves are mortised into the frame and door. Solid steel joints for resistance to higher loads. Burglary protection studs optional.

Max Door Weight (per pair) / **352 lbs.** (160kg)

Min Door Thickness / **1-3/4"** (44mm)

Height: **7.08"** (180mm) / Widths: **1.18"** (30mm)

Frame-Door Width / **1.18"** (30mm)

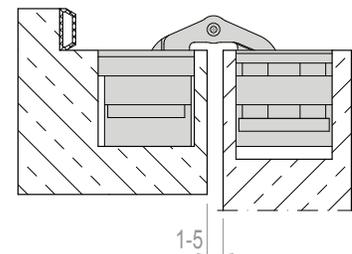
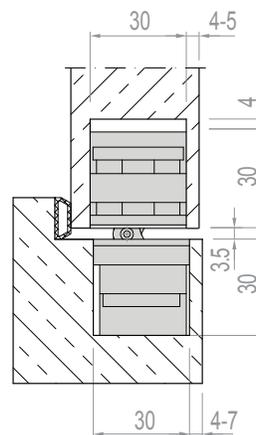
UL Listed / **60min.**

Option: Burglary protection studs (RC2)

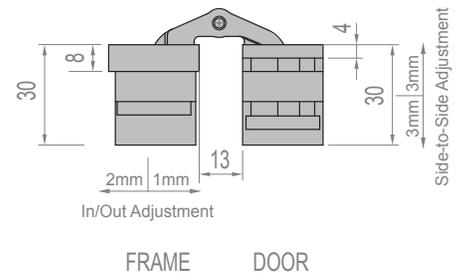
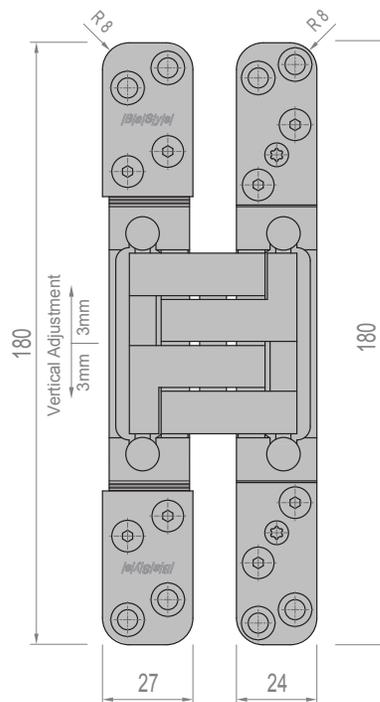
Accessories: Casing frame fixing plates and metal frame receivers available.

Finishes / SNL satin nickel look
SSL satin stainless steel look
DBZ dark bronze

Other finishes available on request. Please call for info.



Section of Wood Frame-Door Installation



Drawing : open to 180°

3-D adjustable concealed hinge in **Solid 304 Series Stainless Steel** for enhanced corrosion resistance. Recommended for exterior and marine environments.

Max Door Weight (per pair) / **352 lbs.** (160kg)

Min Door Thickness / **1-1/4"** (32mm)

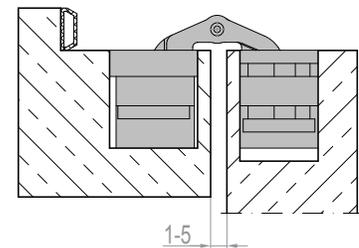
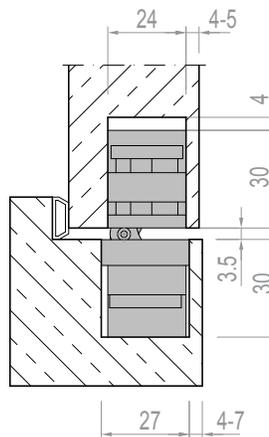
Height / **7.08"** (180mm)

Widths / Frame: **1.06"** (27mm) / Door: **.94"** (24mm)

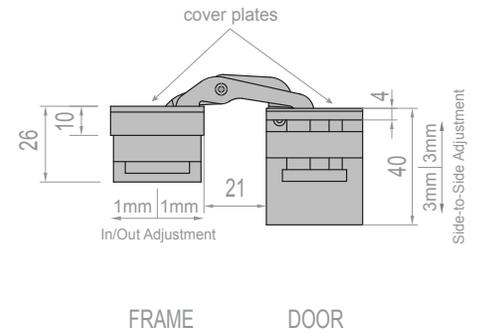
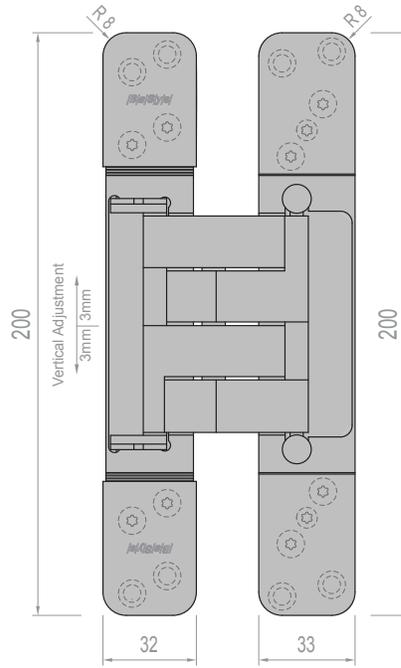
UL Listed / **60min.** 

Accessories : Casing frame fixing plates and metal frame receivers available.

Finishes / SSS satin stainless steel



Section of Wood Frame-Door Installation



Drawing : open to 180°

3-D adjustable concealed hinge for recessed frame installations designed to be mortised into a recessed frame to provide up to a 15mm throw.

Max Door Weight (per pair) / **176 lbs. (80kg)**

Min Door Thickness / **1-3/4" (45mm)**

Height / **7.87" (200mm)**

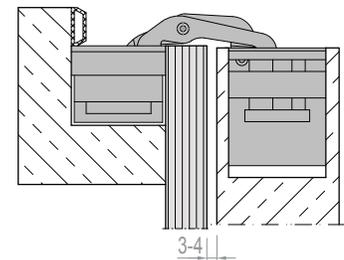
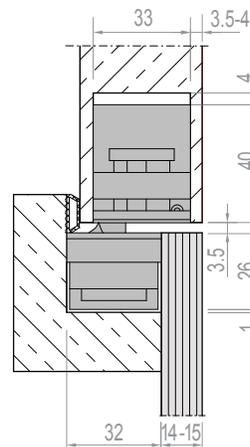
Widths / Frame **1.30" (32mm)** / Door **1.26" (33mm)**

For doors with frames recessed up to **.59" (15mm)** from the face of the door leaf.

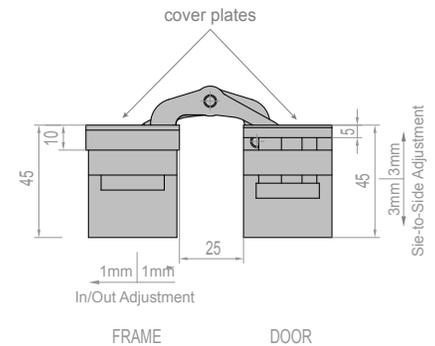
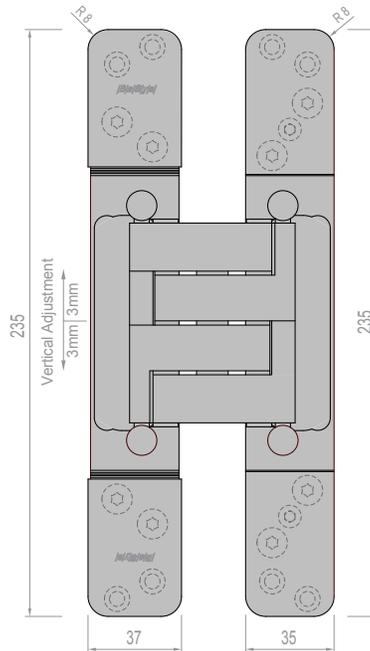
Accessories : Casing frame fixing plates and metal frame receivers available.

Finishes / SNL satin nickel look
SSL satin stainless steel look
DBZ dark bronze

Other finishes available on request. Please call for info.



Section of Wood Frame-Door Installation



Drawing : open to 180°

3-D adjustable concealed hinge for larger doors and providing a wider throw for doors with claddings up to a thickness of 8 mm. Magnetically fixed coverplates provide installation without visible fasteners.

Max Door Weight (per pair) / **352 lbs.** (160kg)

Min Door Thickness / **1-3/4"** (45mm) w/o cladding

Height / **9.25"** (235mm)

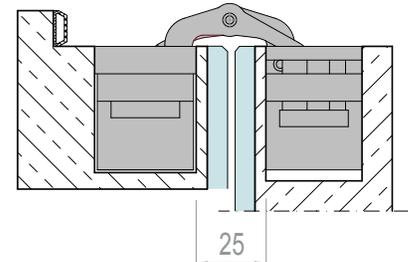
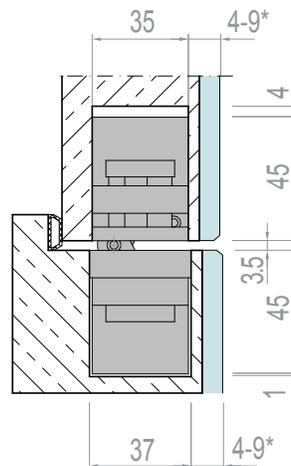
Widths / Frame: **1.46"** (37mm) / Door: **1.38"** (35mm)

Throw allows for cladding up to **8mm** (.31")

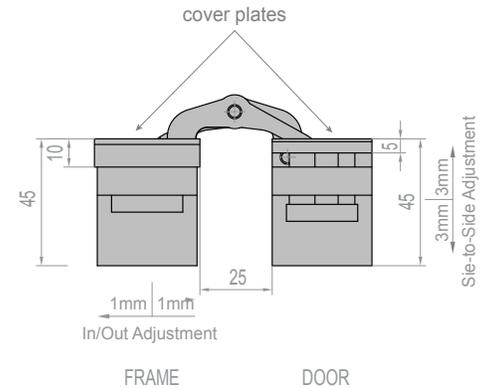
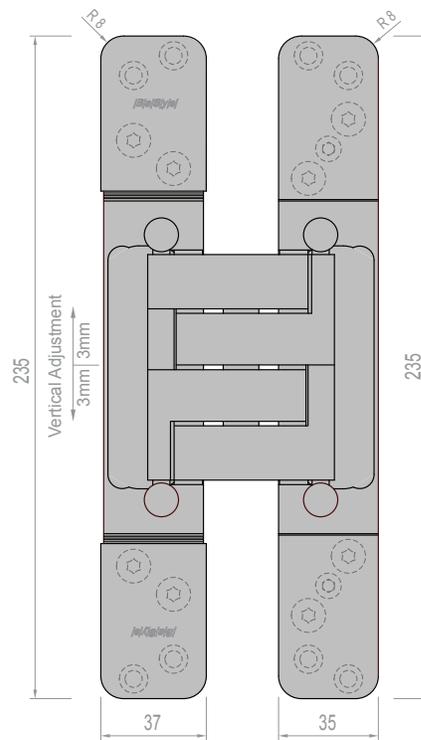
Accessories : Casing frame fixing plates and metal frame receivers available.

Finishes / SNL satin nickel look
SSL satin stainless steel look
DBZ dark bronze

Other finishes available on request. Please call for info.



Section of Wood Frame-Door Installation



Drawing : open to 180°

3-D adjustable concealed hinge for larger doors and providing a wider throw for doors with claddings up to a thickness of 8 mm. Magnetically fixed coverplates provide installation without visible fasteners.

Max Door Weight (per pair) / **440 lbs.** (200kg)

Min Door Thickness / **1-3/4"** (45mm) w/o cladding

Height / **9.25"** (235mm)

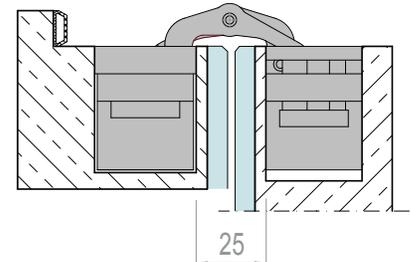
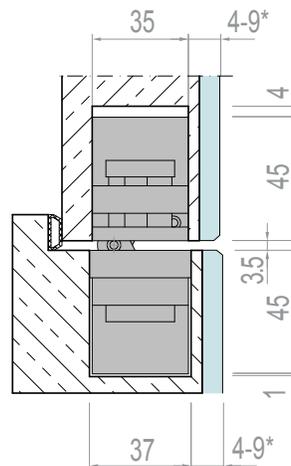
Widths / Frame: **1.46"** (37mm) / Door **1.38"** (35mm)

Throw allows for cladding up to **8mm***.

Accessories : Casing frame fixing plates and metal frame receivers available.

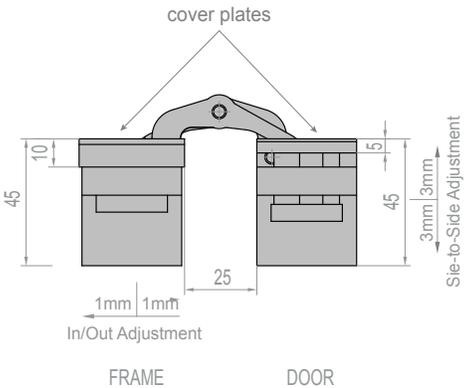
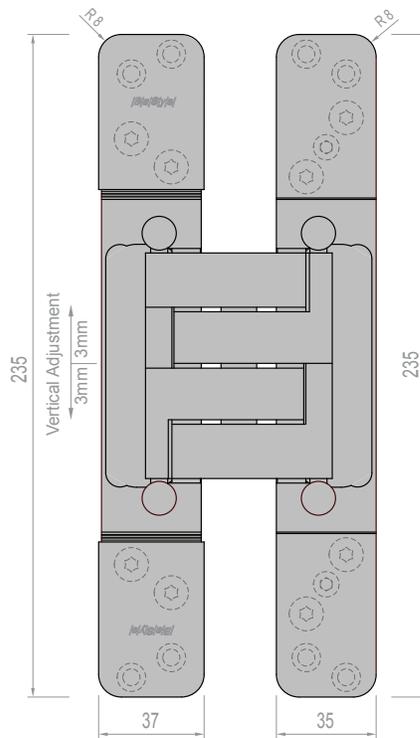
Finishes / SNL satin nickel look
SSL satin stainless steel look
DBZ dark bronze

Other finishes available on request. Please call for info.



Section of Wood Frame-Door Installation

*** NOTE :** Refer to milling documents for proper cladding and door preparation. Minimum clearance between door and frame open to 180° is 7mm with cladding.



Drawing : open to 180°

Developed for heavy-duty applications, this 3-D adjustable hinge is made from solid steel with stainless-steel knuckles. Provides a wider throw for doors with claddings up to a thickness of 8 mm.

Max Door Weight (per pair) / **660 lbs.** (300kg)

Min Door Thickness / **1-3/4"** (45mm) w/o cladding

Height / **9.25"** (235mm)

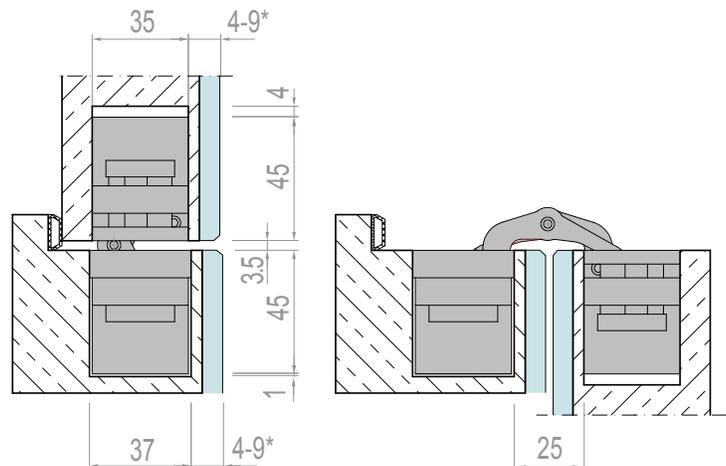
Widths / Frame **1.46"** (37mm) / Door **1.38"** (35mm)

Wider throw allows for cladding up to **.315"** (8mm)

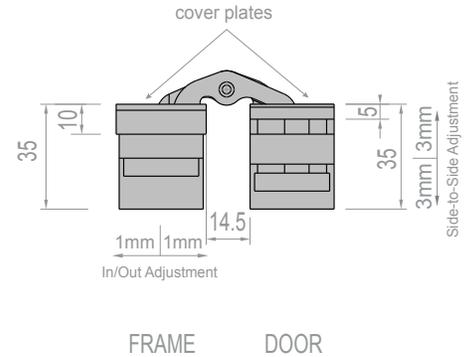
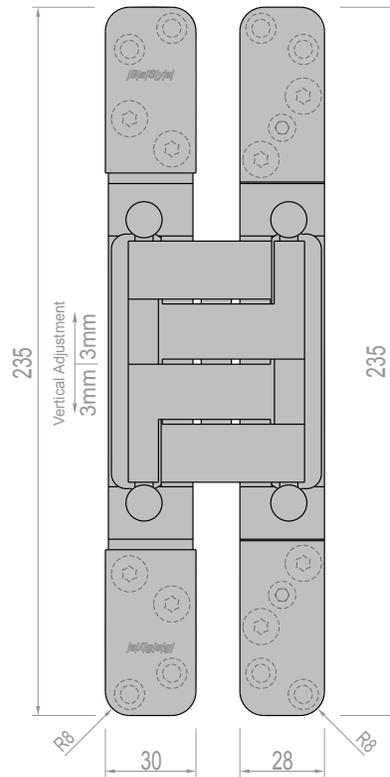
Accessories : Casing frame fixing plates and metal frame receivers available.

Finishes / SNL satin nickel look
SSL satin stainless steel look
DBZ dark bronze

Other finishes available on request. Please call for info.



Section of Wood Frame-Door Installation



Drawing : open to 180°

Heavy-duty 3-D adjustable concealed hinge for flush doors. Hinge leaves are mortised into the frame and door. Magnetically fixed coverplates provide installation without visible fasteners.

Max Door Weight (per pair) / **440 lbs.** (200kg)

Min Door Thickness / **1-9/16"** (40mm) w/o cladding

Height / **9.25"** (235mm)

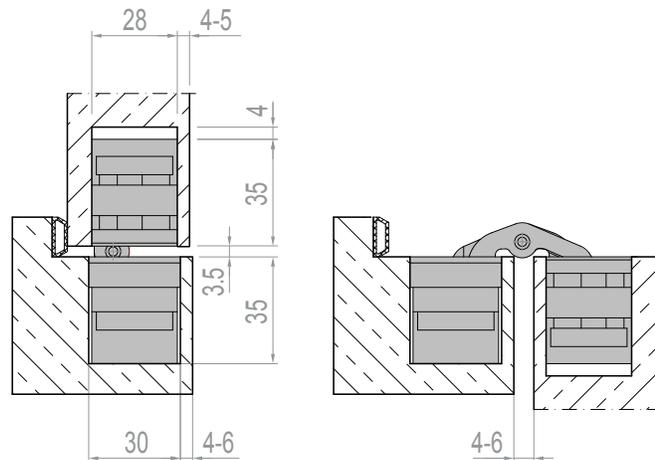
Widths / Frame: **1.18"** (30mm) / Door **1.10"** (28mm)

UL Listed / **30min.** 

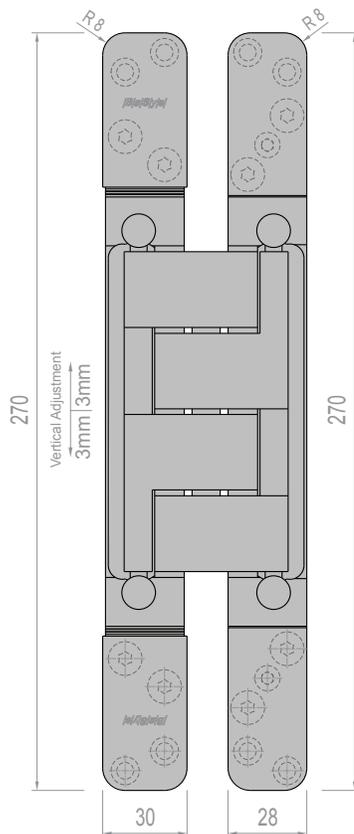
Accessories: Casing frame fixing plates and metal frame receivers available.

Finishes / SNL satin nickel look
SSL satin stainless steel look
DBZ dark bronze

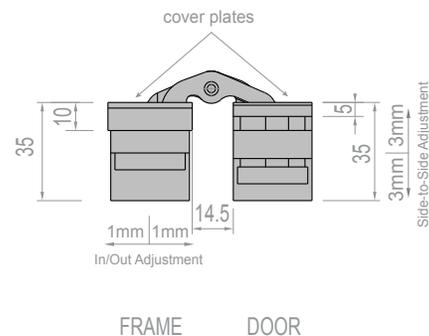
Other finishes available on request. Please call for info.



Section of Wood Frame-Door Installation



optional burglary protection stud



Drawing : open to 180°

Heavy-duty 3-D adjustable concealed hinge in solid steel body and knuckles providing RC-4 class break-in resistance. Magnetically fixed coverplates provide installation without visible fasteners.

Max Door Weight (per pair) / **770 lbs.** (350kg)

Min Door Thickness / **1-9/16"** (40mm)

Height / **10.63"** (270mm)

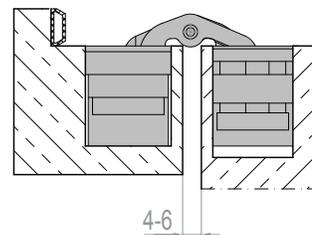
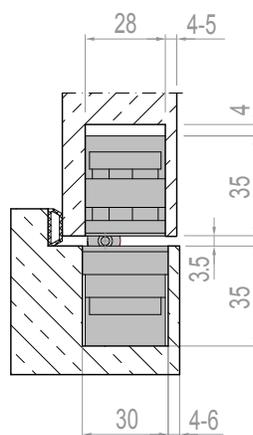
Widths / Frame: **1.18"** (30mm) - Door **1.10"** (28mm)

UL Listed / **60min.**

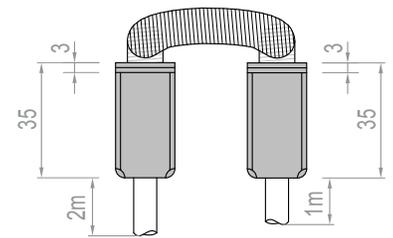
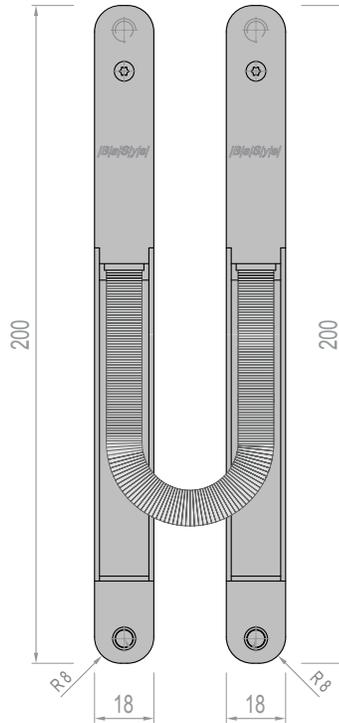
Accessories : Casing frame fixing plates and metal frame receivers available.

Finishes / SNL satin nickel look
SSL satin stainless steel look
DBZ dark bronze

Other finishes available on request. Please call for info.



Section of Wood Frame-Door Installation



Drawing : open to 180°

Concealed 8-pole, electric wire connection for permanent power transfer to the door leaf. Connector's components are mortised into door and frame. The wire on one side can be separated for easier installation.

Compatible with any Pivota® DX concealed hinge.

Min Door Thickness / **1"** (38mm)

Height / **7.87"** (200mm)

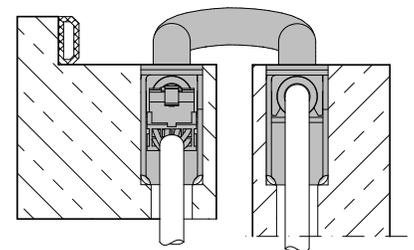
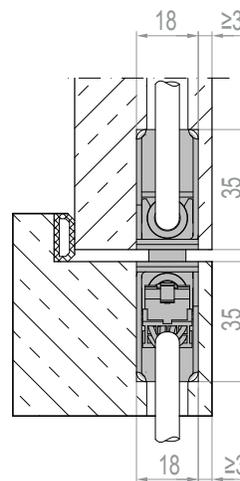
Widths / **.71"** (18mm)

Voltage / max 48 VDC

Current / max 3.0 A (0.34 mm²)

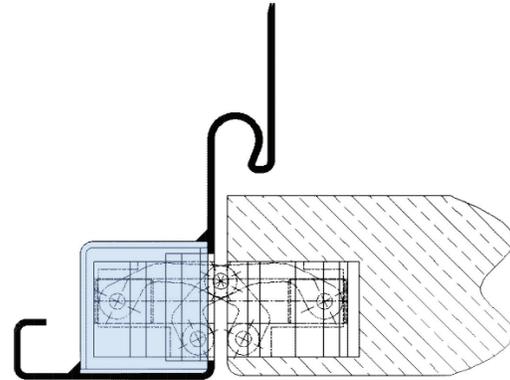
Temperature / -40°C up to +80°C

Finishes / SSS satin stainless steel

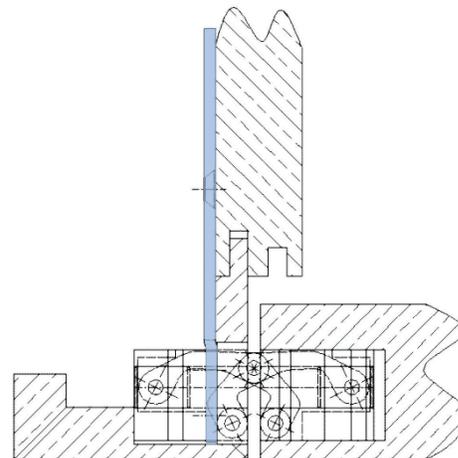


Section of Wood Frame-Door Installation

BaSys offers a comprehensive catalog of accessories to integrate their hinges with frames of any material – wood, metal, or casing frame – as well as offering milling templates and tools for proper preparation of the doors and frames. Please contact us for milling documents and guidance in specifying the right accessories for your particular application.



For securing PIVOTA® DX concealed hinges to steel frames; the receiver can be adapted to the respective profile of the steel frame.



These fixing plates secure PIVOTA® DX concealed hinges into wood frames to provide stability to casing frames. The fixing plate can be resized to the frame by means of cranks or welded spacers; the adapted shape provides utmost stability.

Standard Finishes

BaSys offers a wide range of fine architectural finishes to match just about any hardware program. They are also able to deliver custom finish options for projects of any size.

The standard BaSys finish is a wet sprayed, water-based finish which is then burned into the metal to create a high-quality stove-enamel surface.

The wet sprayed coating is applied through an automated process that assures stable conditions resulting in a consistent application of the finish. The paint is then burned into the surface at a controlled temperature to achieve maximum durability.

This finishing procedure has been applied successfully for more than 15 years and it has been tested according to current European Regulations, having reached 240 hours of corrosion resistance in a standardized salt test. Also, whenever steel components are used in the hinge, these are first zinc plated to achieve the optimum corrosion resistance.

It is important to understand that the assembled hinge is finished "in one shot", meaning all visible components are covered.

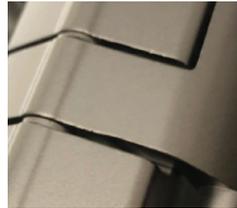
Galvanic Finishing

In addition to their standard finishing procedure, BaSys can provide models in plated galvanic finishes, including nickel, chrome, brass and gold-plated hinges in both brushed and polished finishes.

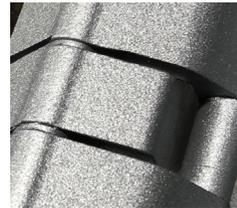
It is important to understand that galvanizing can only be applied to the metal components. Consequently the synthetic parts (e.g. the pistons and bearings) remain unfinished. For hinges in these finishes, the assembled product consists of both galvanized metal parts and natural synthetic parts.

Contact us to obtain hinge and finish samples and for guidance in selecting the appropriate finish for your project.

CUSTOM FINISHES AVAILABLE UPON REQUEST



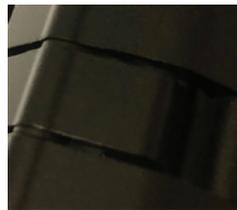
SNL
Satin Nickel Look



ALU
Aluminum Look (F1)



SSL
Stainless Steel Look



DBZ
Dark Bronze



MBK
Matte Black - RAL 9005



MBK
GunMetal Grey - RAL 9004



WHT
Matte White - RAL 9010



SBR
Satin Brass



BSS (DX-ENOX only)
Brushed Stainless Steel



PBP
Polished Brass Plated



PCH
Polished Chrome Plated



PNP
Polished Nickel Plated



BNP
Brushed Nickel Plated



MBZ
Medium Bronze



LBZ
Light Bronze

Fittings With Ideas

Concealed door hinges are setting the trend. Even though demands on functionality are growing, the hardware technology needs to be as invisible as possible from the outside. As on complex commercial property doors, for instance: beyond the standard, these involve large-surface door panels, automatic drive systems as well as safety aspects in relation to emergency escape, fire and smoke. All of this broadens the bandwidth of door weights. Modern door hinges cater to this wide range of load-bearing capacities.

Developing the **Pivota® DX** product range, East Westphalian manufacturer **BaSys – Bartels Systembeschläge** provides an all-embracing product line-up. With load-bearing capacities of 40 to 350 kilograms per pair, it covers the entire door spectrum from the simple domestic door to the highly complex commercial property door. This is not only where the actual door leaf weights play a part but also overdimensional sizes, loads from accessories, such as door closers and drives, as well as reliable lasting performance, demonstrated by door panels not dropping.

Exclusively developed and patented by Basys, the design principle forms the heart of the **Pivota® DX** hinge range. A symmetric four-knuckle joint evenly transfers the forces from the door leaf into the frame. It is connected to the hinge elements by pistons which support the hinge transversally. They channel the opening and closing forces in circular fashion in all directions. This principle gives doors a smooth mechanical action. It reliably takes up door-leaf weights and, together with the solid material used, provides a high level of stability – even in conjunction with extreme weights and frequent use. CE certificates verify long-term, maintenance-free operation both in terms of supporting door weight as well as smooth opening and closing movement.

BaSys stands for **Bartels Systembeschläge**. The family-owned company run by Albert and Jürgen Bartels has been developing, producing and selling an all-embracing range of building hardware since 1995. With its hinge and striking-plate systems, BaSys regards itself as a problem solver for door and frame manufacturers throughout Europe as well as for national and international customers from retail and the trades. In 2001, the company was the first German manufacturer to present a concealed and three-dimensionally adjustable hinge with the **Pivota®** product range, initiating a new design trend in the door industry. At company headquarters in Kalletal, East Westphalia, BaSys employs around one hundred dedicated staff.

Index-d proudly offers BaSys products to designers and builders throughout North America through Index-d. Please call us for technical and fulfillment support.



FITTINGS WITH IDEAS

|B|a|S|y|s|
Bartels Systembeschläge GmbH

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