## GIESSE LINEA 3D

### List of item codes and finishes

Code	Description	Pieces per pack
LINEA 3D	HINGE	
00568190	LINEA 3D HINGE Euro Groove - frame 14-18	20
00569190	LINEA 3D HINGE NC International	20
00571190	LINEA 3D HINGE R40	20
00572190	LINEA 3D HINGE R50	20
00573190	LINEA 3D HINGE Euro groove - outward opening	20
00574190	LINEA 3D HINGE NC International - outward opening	20
00575190	LINEA 3D HINGE	20

LINEA 3D COVER		
00589	LINEA 3D HINGE COVER Couple	20

BLOCK FOR ADJUSTMENT IN HEIGHT			
00570190	HEIGHT ADJUSTMENT BLOCK C.ENCIntR40	10	
00576190	HEIGHT ADJUSTMENT BLOCK Alu 16	10	
00580190	HEIGHT ADJUSTMENT BLOCK R50	10	



## GIESSE LINEA 3D

The latest generation of clamp-fixed hinge









## GIESSE The project

Linea 3D is the latest generation of Giesse clampfixed hinge for door profiles with groove, adjustable in three directions, capable of maintaining the hinge bodies perfectly aligned at all times irrespective of the side adjustment position.

Top aesthetic effect for a clamp-fixed hinge, developed for demanding customers seeking unique application solutions.

The revolutionary Linea 3D system (Giesse patent) makes it possible to perform side adjustment simply and effortlessly, using exclusively the adjuster screw on the wing hinge, thus avoiding the unsightly misalignment of hinge bodies typically found with conventional hinges.

The covers supplied with the product, which can be painted or anodised in accordance with requirements, make it possible to customize the hinge and obtain precisely the required finish.

Perfect anchorage of the hinge to the profile is achieved by means of special steel fixing plates that engage with both sides of the groove, and supplementary reinforcing screws on the frame side plate.

Linea 3D offers unique performance in its class.

Included in class 13 in compliance with EN1935, load capacity is 120 kg with 2 hinges, and 150 kg with 3 hinges.

Linea 3D has been tested to 1,000,000 cycles in compliance with EN1191, which certifies a standard door.

Fixing to the profile is simple and rapid, without requiring any machining.

Linea 3D is the ideal solution for manufacturers wishing to make heavy doors, combining high performance, fast installation, and good looks.

GIESSE awards the maximum importance to the ability to adapt its products to the needs of its systems engineering and door manufacturer customers all over the world. That's why the Linea 3D hinge can be made for each of the customers' lines, making specific extruded components and the relative fixing plates.



Very high wear resistance thanks to the thrust bearing, as proven by successful testing to 1,000,000 cycles (En1191)



## 1,000,000 cycles



## GIESSE **Strengths**

Nylon upper plug to ensure locking of the cartridge for side adjustment in the hinge extrusion.

#### Side adjustment facility (±2mm)

Side adjuster screw with highresistance anticorrosion treatment. By turning the screw, working through the slot in the Zamak cartridge, the gap between wing and frame can be adjusted while always keeping the hinge bodies perfectly aligned.

#### Perfect coaxial alignment

Zamak cartridge for side adjustment with high corrosion resistance finish (GS Silver Plus).

The exclusive technology adopted (Giesse patent) guarantees constant and perfect alignment of the hinge bodies, even when the maximum available side adjustment has been utilised



Ø10 mm stainless steel pin

Pressure adjustment facility  $(\pm 0.5 \, \text{mm})$ Acetyl resin eccentric bush for

adjustment of pressure exerted on the seals.

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#### Customisable

The extruded aluminium cover can be painted/anodised to provide the exact colour required. Fitting only after the door is installed prevents damage to the hinges during transport and installation of the door.

Nylon lower plug



#### **3-D ADJUSTMENT**

Linea 3D can be easily and rapidly adjusted in three directions when the wing is already installed.

#### Side adjustment (±2 mm)

Turn the adjuster screw located in the Zamak cartridge to adjust the gap between wing and frame easily and effortlessly, keeping the hinge bodies aligned at all times.

#### Pressure adjustment (±0.5 mm)

Performed using wrench 03259N to turn the eccentric bush in the frame side hinge.

#### Height adjustment (+4/-2 mm)

Height adjustment is facilitated by using the special lifting block (supplied separately from the hinge), which is inserted in the position of the wing side of the upper hinge.

By slightly loosening the screws of the wing profile fixing plate and turning the stainless steel grub screw, the wing lifts easily and effortlessly with respect to the hinge, while maintaining the hinge bodies always in contact with the thrust bearings.

If the lifting block is not used, the hinge height can be adjusted in the conventional manner by loosening the fixing screws and causing the hinge to slide in the profile groove.







#### Height adjustment facility (+4/-2 mm)

Aluminium lifting block for heigh adiustment Turn the stainless steel grub screw to raise the wing easily and effortlessly. Available separately from the hinge.

#### Guaranteed fixing

The special stainless steel fixing plates feature double serrations for fixing on both sides of the groove, ensuring optimal anchorage of the hinge to the profile. The plates feature stiffening ribs to

ensure they will not be deformed as the screws are being tightened.

#### Very high wear resistance

Stainless steel thrust bearing. Ensures perfect freedom of movement of the hinge and lasting operation, also in severe working conditions with high loads, as shown by tests performed to 1.000.000 cycles in accordance with standard EN1191.

Hinge bodies in black anodised extruded aluminium

#### Maximum anchorage

Stainless steel reinforcing screws with which to fix the frame hinge securely to the profile to increase lipping resistance.

