



**D-311**  
**D-313**  
CLEAN ROOM



inside door



# D-311 - D-313 CLEAN ROOM

## Sealing parts



Dynaco was founded in 1987, dedicated to finding a solution for any damages caused by - and to - high-speed roll-up doors. Inspired by flexible pool covers, Dynaco designed the first ever flexible, self-repairing door, known as the Dynaco Classic.

Later, another innovation followed: Dynaco's revolutionary Push-Pull technology, marketed as the "magic" door. Thanks to this continuous innovative approach and passion, Dynaco is known for producing "the most copied door in the world".

The company distributes doors through a network of professionals only, active in 5 continents.

With its most extensive product range in the industry, Dynaco stays always AHEAD. And always operates with the end-user in mind.

**Dynaco offers 2 different solutions for clean rooms: D-313 Clean Room LF and D-311 Clean Room LF. Both specifically designed for inside applications that require minimal leak flow.**

## Improved seal

D- 311CL

clean air

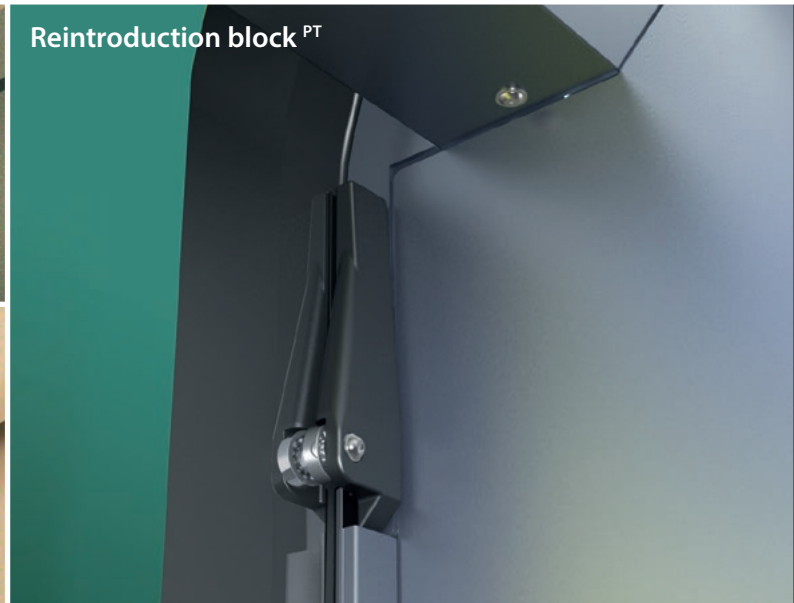
contaminated air

D- 313CL

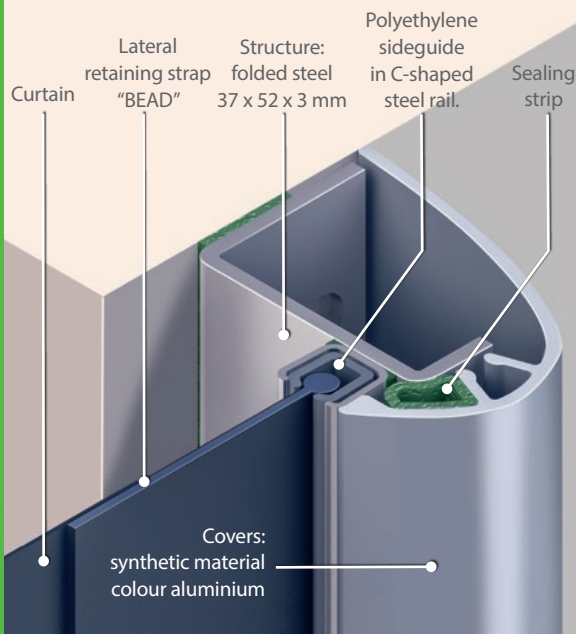
clean air

contaminated air

## Reintroduction block<sup>PT</sup>



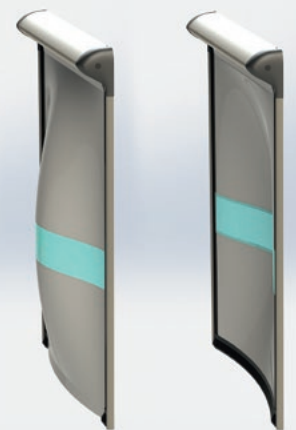
## Low friction side guides



## Pressure resistant



## \*\* Overpressure-underpressure



Overpressure

Underpressure

Dynaco D-313 Clean Room LF is recommended for installation in limited spaces when maximum air permeability is needed. Its perfect sealing properties provide environmental control and protect your clean room environment against drafts, dust and dirt.

Thanks to its modern design providing a built-in motor and thin side columns, the Dynaco D-313 Cleanroom LF is the slimmest high-speed clean room door in the market.

Dynaco D-311-Cleanroom LF is recommended for less demanding clean room applications.

Ideal for interlocks, the Dynaco Cleanroom Doors feats a patented «LF» (Low Friction) technology on both models, combined with a frequency inverter driven motor, ensures smooth and silent operation.

## Why this is the right door for your business?



### Minimal air leakage

Their durable, tight seal keeps pressure at the level required, leading to limited air consumption over the years and significant energy savings.



### Contamination-barrier

Their minimal cycle time, advanced multi-interlocking facilities and airlock layout help Dynaco doors reduce air transfer and potential consequent contamination of valuable goods inside clean rooms.



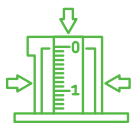
### Extremely safe

At Dynaco we never compromise on safety. All doors operate according to the highest safety standards, thanks to their soft bottom edge and our self-testing safety devices.



### Silent operations

Both patented BEAD side guides and our Low Friction (LF) system allow for operations that have a minimal noise level, unsurpassed in the industry.



### Space-efficient

Unlike sliding alternatives, Dynaco doors require very little installation space. All space is used optimally, it is even possible to install side guides within the door opening and hide its header above the ceiling.



### Easy to clean

Dynaco door curtains have a smooth surface, free of irregularities. They contain neither bars nor other components that may accumulate dirt and have a stainless steel structure. A combination which makes them very easy to clean.



### Uninterrupted workflow

Our high-performance doors are designed to guarantee continuous operation, no matter the traffic conditions.



### Environment control

Dynaco doors not only open but also close fast. Their opening time is minimal to avoid temperature fluctuations that may affect product quality.

## Why Dynaco?



### Automatic self-reinsertion

At Dynaco we invented the crash-forgiving, self-reinserting door. The one and only original. Its curtain automatically reinserts when dislodged, without intervention. This means: no repair costs, nor costly production downtime.



### Patented BEAD side guides

Our patented BEAD side guides deliver the highest sealing properties, the best way to maintain environmental conditions and reduce energy costs. The Low Friction (LF) system allows not only for smooth and silent operation, but also increased safety, thanks to the absence of weight in the soft-bottom edge on every door.



### Frequency converter

Dynaco doors operate with the most advanced drive unit in the industry. The combination of a frequency-driven motor and encoder offer smooth operation and reliability. Any wearable elements are reduced to a minimum.



### Dynalogic control box

All doors can be fitted with a touch-screen control unit: our Dynalogic 5 control box. The most user-friendly, self-diagnostic option, which allows for remote control management. It increases efficiency and helps you monitor any door's status. At any time, from any desk.



### Sleek, attractive design

Our doors' compact, sleek and minimalist design fits perfectly in any type of building architecture.



### Comfort of use

Dynaco doors are suited to a wide range of applications. Thanks to our different opening options and certified safety-devices, you are safe whenever you cross a Dynaco door.



### Certified performance

Performance of all Dynaco doors has been tested and certified by a third-party notifying body.



### Sensitive, soft-bottom edge and photocells

All Dynaco doors come with 2 safety devices: a wireless, bottom-edge obstacle-detection device called AWDD, and a pair of photocells to monitor the doorway transit area.





Dynaco offers a wide range of products for several industrial applications.  
Find out more on [www.dynacodoor.com](http://www.dynacodoor.com).

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# Always ahead



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#### About Dynaco

Dynaco is the world leader in high speed door technology. It offers state of the art solutions for both commercial and industrial applications, including sectional overhead doors.

Founded in 1987, Dynaco has acquired an extensive expertise in high performance doors. Yet it continues to invest in order to exceed your expectations of quality and performance. A network of certified and dedicated partners ensures an optimal service to customers all over Europe.

Dynaco is part of the ASSA ABLOY Group, the world leader in access solutions. Every day, we help billions of people experience a more open world.