

SECTIONAL RESIDENTIAL DOOR



Description of the Product,

The R&D DOORS Residential sectional door fabricated with the sandwich panel is one of the best options for the proper closing and functioning of the Garages, homes, basements which enhances both thermal and acoustic insulation.

The sandwich panel door is constructed with sections of double sheet steel with injected insulation. The panels are manufactured with residential *Fingersafe* board and are available in thicknesses of 40mm and 500mm or 610mm high. *Fingersafe* system meets the European standards EN1604 norms for safety. Pre-designed with horizontal grooving and stucco wood embossing, exterior and interior. White color similar to RAL 9010. Intermediate joints between sections. Top Seal, Bottom Seal and Side Seals in EPDM grade rubber. Bolted galvanized steel hinges, guide rails for ball-bearing, self-adjusting rollers. Profile guides, Z-200 galvanizing and weight compensation by torsion springs with side load cables, achieving a perfect balance of the door for both manual and automatic operation.

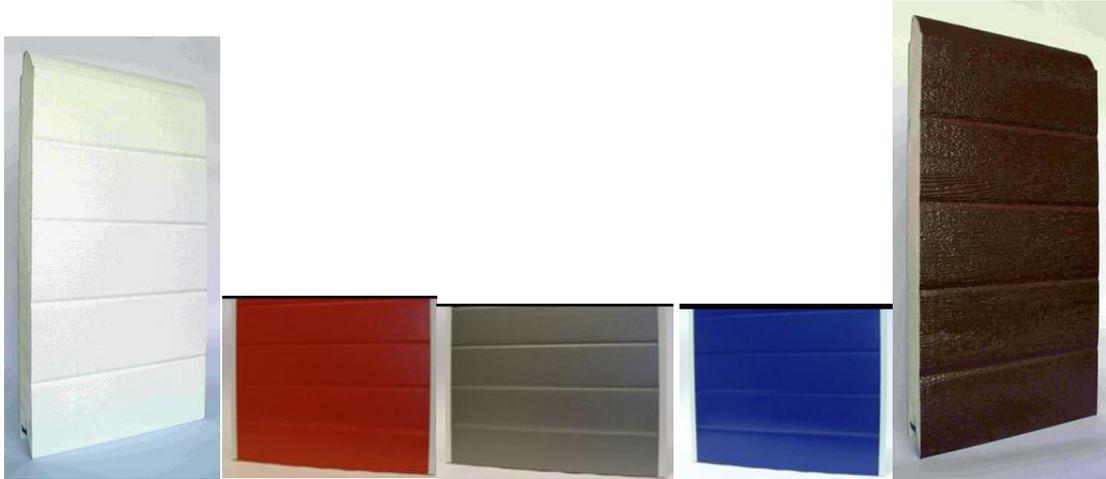
Motor-Our garage door operators are tested and certified in accordance with strict guidelines. That means you can be sure that our products are of the highest quality. Certified according to **DIN EN ISO 9001**. This guarantees you the highest standards of quality and production. Our operators are **TÜV/GS** tested (TÜV) at regular intervals. They also correspond to the applicable European provisions (**CE mark**) for "Electrical Safety" and "Electromagnetic Compatibility".

The main criteria involves an endurance function test for the operator as an example (80,000 cycles)

Our garage door operators are also **certified by independent institutes** and the safety validated according to statutory provisions and standards.

Offering **over 1500 garage door / operator compatible combinations**. And **are certified**.

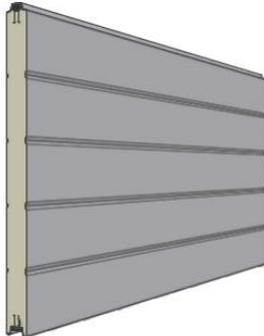




TECHNICAL SPECIFICATIONS

- STANDARD COLORS	RAL 9010 ,RAL 9006, RAL 5010,RAL 8014,RAL 3000,RAL 7016
- SPECIAL COLORES	ALL THE COLORS AS PER RAL.
-HEIGHT OF THE PANELS	500/610mm
TOTAL PANEL THICKNESS	40mm
-WEIGHT OF THE CURTAIN	+13 Kg/M2
-WIND LOAD EN 12424	Clase 4 UPTO 4000 mm. Clase 3 UPTO 6000 mm. Clase 2 UPTO 9000 mm.
-WATER PERMEABILITY EN 12425	Clase 3
-ACOUSTIC INSULATION EN 717-1	24 dB
-COEFFECIENT TRANSMISSION THERMIC	U= 1.6 W/(m²K)

PANEL



OUTER SHEET

- Thickness 0,48 mm
- Galvanized Z225
- Pre-painted with polyester of thickness 25 μ or PU Paint (Smooth Colors)
- Laminted with 115 μ thickness of PVC Film. (Imitation Wood)

INNER SHEET

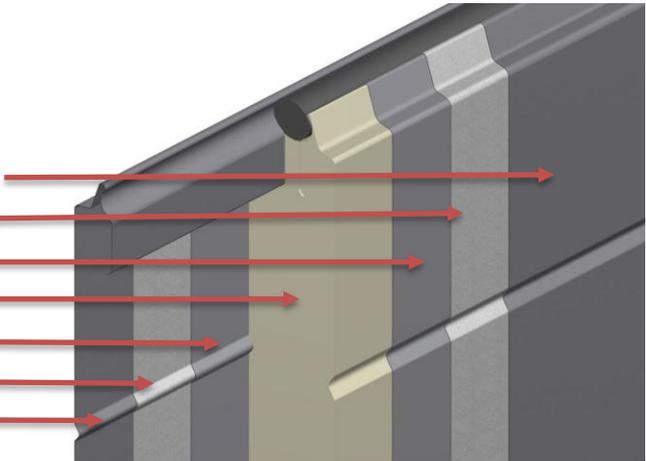
- Thickness 0,30mm
- Galvanized Z100
- Pre-painted with polyester of thickness 25 μ Film protector PVC
- thickness 25 μ
- Heights quoted in mm:

PUR FOAM

- Density 38 to 40Kg/m³
- Without HFC and CFC
- Seal: EPDM

CONSTRUCTION OF RESIDENTIAL PANEL

- Lamination of Polyester or PVC Film
- Primer
- Galvanized Steel Z225
- Foam
- Galvanized Steel Z100
- Primer
- Lamination of Polyester



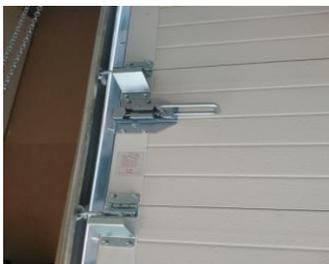
GUIDE TRACKS

Profile based guides, Hot Dipped galvanized Dx51-Z200 of 1.5 mm assemblies with steel rivets and side guides of EPDM bi-component.



-For doors of width more than 8000mm, the profile and guides are supplied to fit 3inch rollers.

HARDWARE AND ROLLERS

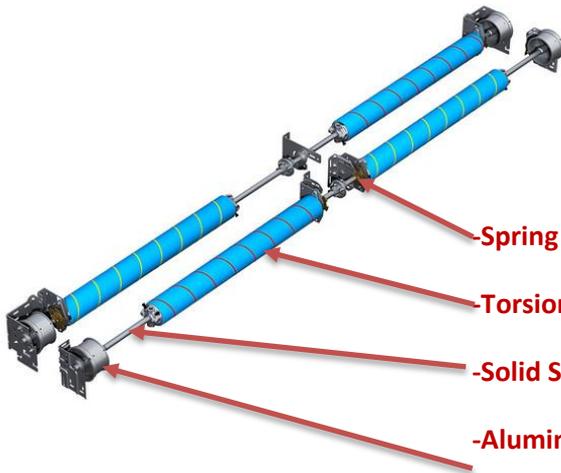


HARDWARE: The Steel Hardware of 2.5 mm, Galvanized of excellent quality.



ROLLERS: Zinc-plated steel rollers with nylon roller and precision bearing designed to withstand a load of 60 kg at 750,000 revolutions.

SPRING COMPENSATION SYSTEM



The compensation system based on winding drums and torsion springs are calculated for **25,000 cycles** in its standard version, and can also be done with springs for intensive use which can go up to **200,000 cycles**.

- Spring Break Device. (Certificate CE-TUV)
- Torsion Springs (Spring Wire C, as per DIN 17223C)
- Solid Shaft with Zinc. (Different diameters as per size of door)
- Aluminium Winding Cable Drums



All Residential sectional doors are supplied with zinc-plated steel spring safety system and cast iron sprocket for max. Torsion of 210Nm x spring and TÜV TorFv certificate 6/101.

DRIVES



MOTOR 5 years guarantee

maximum traction/pressure force 1100 N for garage doors up to 8 m width

112 memory lots (extendable to 448 memory slots*)

economical energy consumption

operator unit and track length can be combined (to suit customer needs)

operator power and track length can be flexibly combined to suit customers' requirements

Fast chain tensioning:

for a fast, secure and simple installation with standard tools.

SECTIONAL RESIDENTIAL DOOR



The “**Dynamic Power System (DPS)**” enables the operator to use only as much force and electricity as needed.

Due to an **energy-saving toroidal core transformer**, the operator requires less than 2W in standby mode.

With a typical operation of three open and close movements a day, a garage door operator only costs around € 2.50 a year.



Motor control:

Offers numerous connection possibilities, e.g. light barriers

(photo cell), safety edges or TorMinal

internal push button with integrated 7 m cable

automatic closing is adjustable

integral radio receiver (FM 868.8 MHz) and

illumination

Obstacle detection: the door reverses when meeting an obstacle

The “Dynamic Power System (DPS)” reads in the required force automatically and adjusts this to the changing external conditions, ensuring the highest safety

Back jump for relieving the stress on the door and drive

Controlled soft run - Door maneuvering counter.

Safety and accident prevention are taken seriously. Our operators are equipped with reliable and proven technology you can depend on.

The **automatic obstruction detection** ensures optimum protection particularly for families with children.

The self-locking motor ensures effective

protection against break-ins or entry by strangers.

No additional locking mechanism is necessary

The **emergency release system** means the door can be opened (unlocked)

and locked manually in any position. With your garage door locked (closed)

during a power failure. This offers you optimal safety in any situation.

Innovative technology

All our garage door operators are provided with the

operator system of the jointlyoperating

motor –The motor carriage moves on a firmly

tensioned chain, so that **no friction or power loss occurs** as with a circumferential

chain. This gear-saving technology ensures a longer service life and less wear to the garage door operator.

The chain must not be oiled, which avoids oil stains on your car or door.



R&D DOORS, S.L.

CIF: B71109284

Polígono industrial Mórea sur nº 30

31191- Beriain. (NAVARRA)

SPAIN

export@rddoors.com