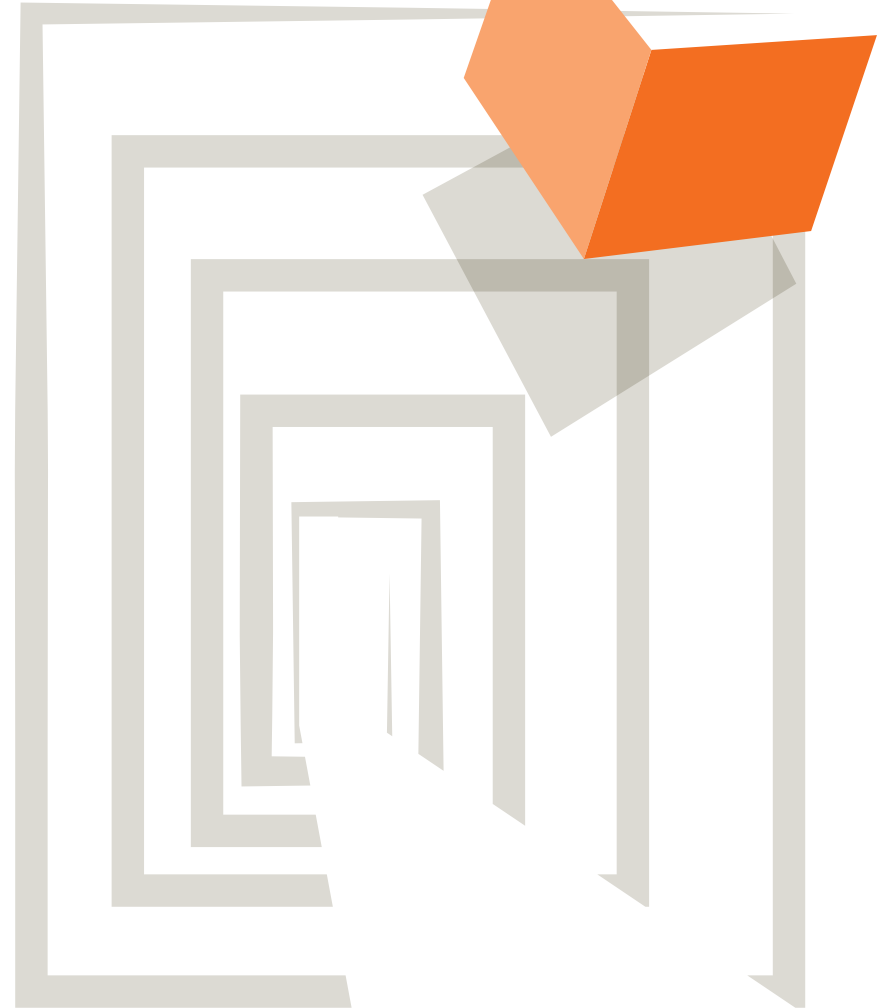


INDUSTRIAL
PRODUCT
CRAFTMANSHIP
QUALITY

MODULA THERMICROLL KIT®



THERMICROLL

thermicroll
INDUSTRIAL DOORS

TABLE OF CONTENTS

Thermicroll®1

The vision.....2

Production3

Sectors of application4

Strenghts6

Spiral 50.....7

Constructive features.....8

Selection guide10

75.000
installed industrial doors



QUALITY

We work on continuous improvement to increase characteristics of our products and always reach the very highest level

YEARS OF ACTIVITY



RELIABILITY

The know how to technically perfect products whose manufacturing characteristics allow us to reduce maintenance interventions



INNOVATION

Continuous growth of our knowledge and skills are fundamental to operate ahead of time for the current and future needs

Thermicroll

more than 300
distributors

Thermicroll® is a solid company specialized in production, sales and service of industrial doors, roller shutters, speed doors, commercial doors, insulated doors and industrial dampers. High knowledge in mechanics, added to technological automation, allow the company to create innovative solutions to separate different working areas and environments. Technical knowledge and strong experience in the field of industrial doors that facilitate the handling of goods,

materials and people safely make Thermicroll® a leader in its field. Safety, security, quality and versatility are just some features and advantages that distinguish our products and our way of working. Thanks to a highly consultative approach, and our technical network, we take care of our customers by offering technical assistance, support in the selection, installation and maintenance and solve any problem that may arise with a Thermicroll® creation.

ON THE SIDE OF YOUR BUSINESS TO OPTIMIZE, OPERATE AND INNOVATE.



Design and quality of work require standards higher year after year. Future operations, energy costs and also the movement of goods, materials and people are all a cost: these parameters affect the running cost of the whole production plant. Thermicroll® helps to make its mark in the market, the first for searching solutions increasingly advantageous and efficient. Its objective is to assist companies in a way towards the adoption of systems of more advanced industrial doors which are user friendly, and will be able to play their part in reducing production times and costs for companies compared to traditional production processes, we are constantly investing in research and innovation.

PRODUCTION

TO A HIGH STANDARD

Thermicroll® designs, produces and install door systems for small, medium and large companies like airports, naval ports, retail, industries, washes, hospitals and barracks, taking care of the whole process through its offer “turnkey”.



The production is “Made in Italy”, Thermicroll® designs and manufactures its own products testing them directly and controlling the entire production process. In this way, it is certain to ensure high system quality standards and total reliability. The advantage is obvious: one specialized partner, responsible for research, selection, design, and construction of the products, ensures the production chain. In Thermicroll®, attention to detail is present in each business.

Function and culminates in the testing phases and quality control, first done in the company and then, at the installation place (site). Thanks to a highly consultative approach and a reliable network of technicians on the national territory, Thermicroll® helps companies to solve most separation and demarcation zone needs, whether it concerns logistics loading and unloading materials, whether it be a warehouse.

SECTORS OF APPLICATION

Airport and naval ports

Thermicroll® door solutions are adapted for airport hangars and naval stores, which must be in continuous service in order to preserve means to the atmospheric agents and weather conditions, often adverse. At the same time, **Thermicroll®** door solutions meet operational needs, and guarantee the possibility to operate inside the structure and near to the door, without any limit and the greatest noise reduction.

Environmental and composting sector

The **Thermicroll®** doors meet the requirements of thermal barrier, the passage of the fumes and the access facilitation to storage areas easily accessible by large excavators and buckets, which require large openings for the passage of heavy vehicles and of substantial loads; situations found where there is a composting site or engaged in activities relating to the management of organic materials in the process of decomposition.

Car washes

To divide the wash and vacuum environments (and preserve them from possible splashes of water), to control the temperature and to prevent vandalism, locking systems play a fundamental role. **Thermicroll®** offers specific products for this type of environments and for all the industrial sectors in direct contact with the water.

Large Retail Trade

Hygiene, temperature between different environments, noise pollution and safety are the main needs of the industry, which **Thermicroll®** will respond with a specific design. Specifically, the rapid door dedicated to the food sector, combines safety,

functionality, and aesthetics, ensuring the safety of non-qualified personnel (customers) in areas near to the cargo passage.

Industry

The industry, particularly the heavy engineering industry, tends to break down the obstacles that block the transition between environments, to accelerate the process and to avoid accidents at work: one of these, for example, are the big, heavy industrial folding door, which are opened several times a day with considerable loss of time. **Thermicroll®** offers solutions without ground attacks, for the fast and safe passage from one zone to another..

Logistics

Thermicroll® has developed a specific range of closures characterized by maximum speed, robustness and isolation, for this type of industry, with particular attention to airport runways, naval exercise areas, logistics yards and warehouses, especially during loading and unloading areas. Safety is another of the basic requirements that our doors must fulfill, due to the presence of internal and external employees, goods sometimes very delicate and highly sophisticated means.

Refrigeration

The cold storage and refrigeration areas, important in the food industry and in the medical and biological, require an easy transition between different temperature zones and humidity. Besides having controlled temperature and humidity, you must also ensure the same environmental safety. **Thermicroll®** provides two special closures insulated blinds, which are in an ideal solutions in this area.



AIRPORT AND NAVAL PORTS

ENVIRONMENTAL AND COMPOSTING SECTOR

CAR WASHES / LARGE RETAIL TRADE

INDUSTRY / REFRIGERATION

LOGISTICS

Thermicroll

Thermicroll
INDUSTRIAL DOORS



1

VERY SMALL DIMENSIONS
*of the shutter thanks to
the particular design of
the door heading*



2

NO SPRINGS



3

LOW NOISE
*during opening
and closing*



4

HIGH HEAT RESISTANCE



5

HIGH WIND RESISTANCE



6

NO FIXINGS
*to the ceiling, unlike
conventional sectional
doors*

Strengths

*Your project is also our challenge.
Thermicroll®, is developed thanks to the
experience and different realities in which
we install our products, this enables us to
find the ideal solution for your needs and
offer you the best in the market.*

7

SIMPLICITY
structural design

8

LIMITED MAINTENANCE
*(only one provided
by the rules)*

9

SPEED
of assembly

10

PACKED AND CRATED
*With use of polystyrene
protection*

11

**DESIGNED WITHIN THE
TECHNICAL RULES**
*Provided by the
relevant law*

12

CERTIFIED GUARANTEE
*Products built according
to current law under the
European standards*



Thermicroll

SPIRAL 50

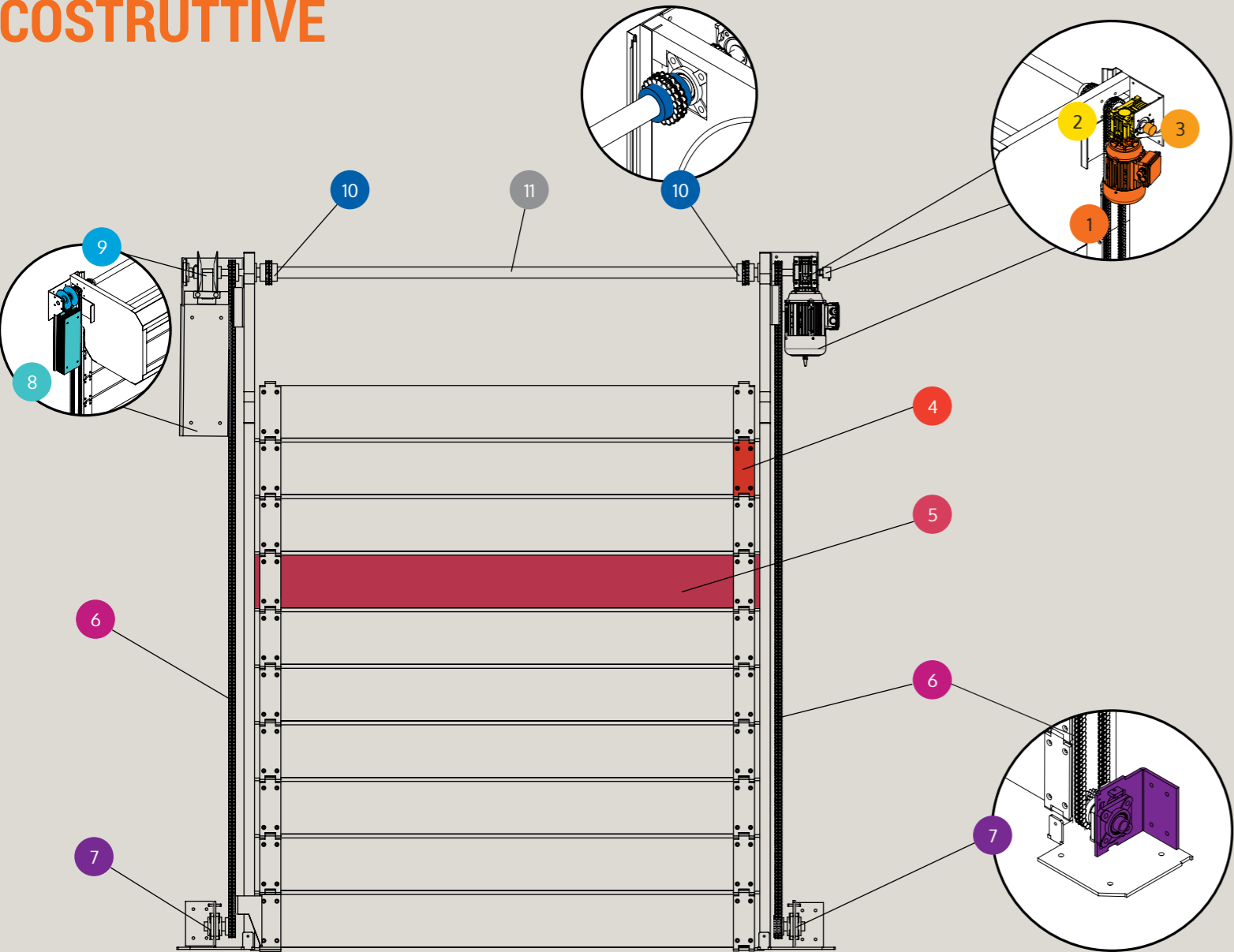
*The top of the range between insulated doors Thermicroll® provides
the best performance in terms of speed, security and isolation,
combined with an attractive aesthetic look; it is suitable for both
inside and outside applications.*

The winding patented circular spiral is made of high density polyethylene and the curtain is composed of aluminum panels or double wall steel with high thermal-acoustic insulation and the possibility of insertion of polycarbonate windows. The winding space is very low. It does not require anchoring to the ceiling.

FEATURES & BENEFIT

- › 3ph motor with inverter drive controls
- › Up to 1,8 m/s opening speed
- › User friendly with minimal maintenance
- › Resistive wireless safety edge (optional)
- › Light grid
- › High thermal performance 1,8 W/m2K
- › Simple opening if power fails
- › No springs

CARATTERISTICHE COSTRUTTIVE



- 1 MOTORE AUTOFRENANTE
- 2 RIDUTTORE A VITE SENZA FINE
- 3 ENCODER OTTICO
- 4 PIASTRA FISSAGGIO PANNELLI
- 5 PANNELLO
- 6 CATENA DI TRASMISSIONE
- 7 BLOCCO RINVIO
- 8 CONTRAPPESO
- 9 PULEGGIA
- 10 GIUNTO ELASTICO A CATENA
- 11 ASSE MECCANICO

PARAMETERS	TECHNICAL AND OPERATING SPECIFICATIONS	
APPLICATION	Inside and outside	
MAX CLEAR DIMENSIONS	6500 x 6500 mm	
OPENING SPEED	Up to 1,5 m/s (depending on the size)	
CLOSING SPEED	~ 0,5 m/s	
K THERMIC	~ U = 1,9 W/m²K (depending on the size)	
ACUSTIC	-	
OPERATING TEMPERATURE	-5°C +40°C	
WIND RESISTANCE	CLASS	
L/H 3000 x 3000 mm	4	
L/H 5000 x 5000 mm	3	
L/H 6000 x 5000 mm	3	
STRUCTURE	STANDARD Galvanized steel	OPTIONAL Epoxy powder painted steel RAL
CURTAIN	STANDARD OUTSIDE: Galvanized aluminium, thickness 50 mm INSIDE: steel pre-painted, thickness 50 mm	OPTIONAL OUTSIDE/INSIDE: Epoxy powder painted steel RAL
SPIRAL WRAP	Patented, in high density polyethylene PEHD 500	
GUIDES	Patented, in high density polyethylene PEHD 500	
CONTROL PANEL	Inverter 380 V	
POWER SUPPLY	400 V	
FREQUENCY	50/60 Hz	
LIMIT SWITCH	Encoder	
GEAR BOX	Asynconus motorized with electric brake 110 V for intensive use	
EMERGENCY OPENING	STANDARD Manual crank release	OPTIONAL Manual chain release
SAFETY EDGE (EN 13241)	STANDARD No	OPTIONAL Anti-crushing sensor
WIRING	Waterproof IP 69 plug and play	
PHOTOCELLS	with 22 rays activated up to 2500 mm height	
DURABILITY	3,000,000 open/close cycles with standard maintenance every 6 months or every 150.000 cycles	

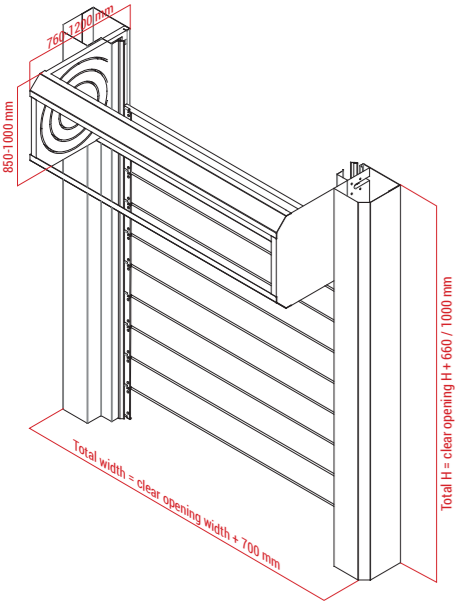
APPLICATION FIELDS							
RETAIL	INDUSTRY	LOGISTIC	REFRIGERATION	GARAGE	AIRPORT	PORT	GENERAL USE
😊	😊	😊	😊	😊			😊



GUIDA ALLA SCELTA

#1_IL MODELLO

Scegli il modello di Spiral 50 più adatto alle tue esigenze

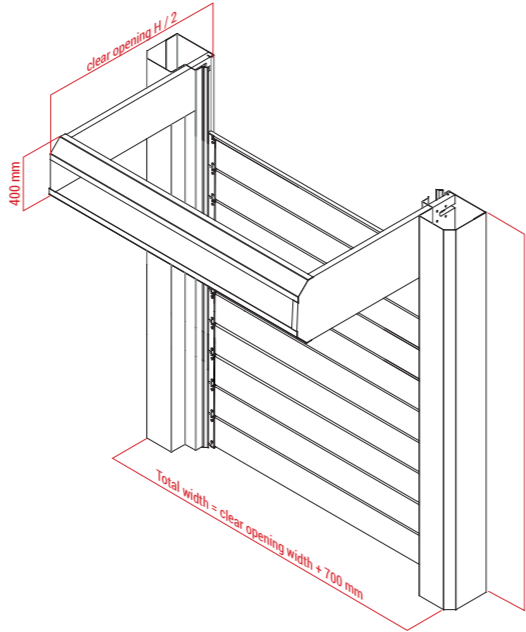


Thermicroll® Spiral

Spiral ad ingobri tradizionali, consigliata per ambienti interni in cui non ci siano particolari problemi di spazio.

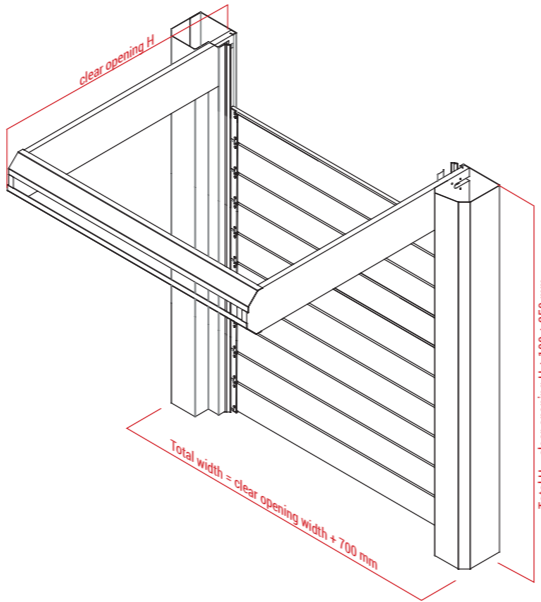
Thermicroll® Spiral CARTER

Spiral con carter di chiusura dell'avvolgimento. Utilizzata soprattutto in ambienti esterni, perchè il carter ne favorisce la protezione dagli agenti atmosferici.



Thermicroll® Spiral H

Spiral dotata di architrave ribassato, grazie al quale la chiusura ha ingombri minori. Per questo motivo viene utilizzata in caso di spazi ad ingombro ridotto.



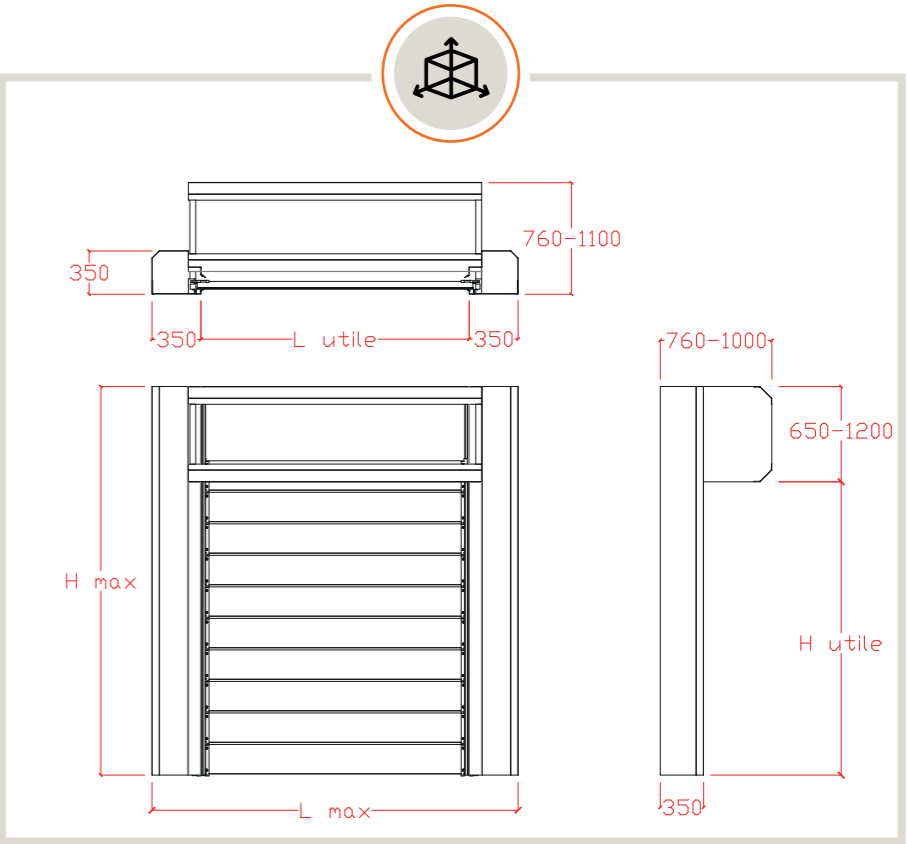
Thermicroll® Spiral LH

Spiral dotata di architrave ad ancora più basso, grazie al quale gli ingombri si riducono al minimo.

GUIDA ALLA SCELTA

#2_LE DIMENSIONI

Misura i tuoi spazi e scegli larghezza e altezza della chiusura in base ai tuoi passaggi



SCHEMA RIEPILOGATIVO DEGLI INGOMBRI POSSIBILI		larghezza utile passaggi				
		0 - 2000 mm	2000 - 3000 mm	3000 - 4000 mm	4000 - 5000 mm	5000 - 6000 mm
altezza utile passaggi	0 - 2000 mm					
	2000 - 3000 mm					
	3000 - 4000 mm					
	4000 - 5000 mm					
	5000 - 6000 mm					

GUIDA ALLA SCELTA

#3_LE FINITURE

Scegli le caratteristiche del manto e il colore della tua chiusura

FINITURA MANTO

- › Alluminio-Aluminio 50 mm
- › Acciaio-Acciaio 50 mm
- › Profilo air-flow
- › Settori finestrati

COLOR RANGE



GUIDA ALLA SCELTA

#4_IL KIT

Scopri tutti i componenti del tuo kit

COMPONENTE	DESCRIZIONE	
Piastra di base	Column base plate (right and left)	
Cuscinetti	Bearing	
Base montante	Column base (right and left)	
C guarnizione	Gasket support (right and left)	
Carter laterale montante	Column side (right and left)	
Carter frontale montante	Column cover (right and left)	
Montanti in pe	Side lead in polyethylene (right and left)	
Guarnizione laterale	Lateral gasket	
Guida contrappeso	Counterweight support	
Guida contrappeso in PE	Counterweight side lead in polyethylene	
Piastre spirale	Spiral wrap in polyethylene (right and left)	

COMPONENTE	DESCRIZIONE	
Distanziali	Spacer	
Pannelli	Panel	
Pannelli trasparenti	Transparent panel	
Cerniere	Hinge	
Cerniere	central Hinge	
Cerniere	little Hinge	
Perni cerniere	Hinge pivot	
Perni cerniere centrali	Little hinge pivot	
Boccole in pe	Plain bearing in PE	
Tappi pannelli	Panels' end cups	
Rivetti	Rivers	

COMPONENTE	DESCRIZIONE
Manine	Coupling panels-chain
Spessori in PE	Polizene Thickness
Cerniera di collegamento tra pannello e catena	Coupling panels-chain's hinge
Pignone doppio	Double pinion
Catena doppia	Double chain
Lame contrappeso	Counterweight blade
Perno lato contrappeso	Counterweight side pivot: Ø = 25 mm
Piastrina di collegamento cinghia-perno contrappeso	coupling belt - counterweight side pivot
Perno lato motore	Engine side pivot: Ø = 25 mm
Pulegge	Bullwheel
Cinghia	Belt

COMPONENTE	DESCRIZIONE
Fermo della cinghia	Belt stop
Pignone centrale	Central pinion
Barra centrale	Central bar
Catena circolare doppia	Circular chain (double)
Piastra lato motore	Engine side plate
Piastra lato contrappeso	Counterweight side plate
Guarnizione superiore	Top gasket
Supporto della guarnizione superiore	Top gasket support
Gomma di fondo	Bottom gasket
Tappi gomma di fondo	bottom gasket end cups
Angolari	Corner









COMPONENTE	DESCRIZIONE
Viti a testa piatta	flat head bolt
Dado flangiato esagonale M8	Hexagonal flanged nut with serration M8
Dado flangiato esagonale M10	Hexagonal flanged nut with serration M10
Grani M2,5	Cone point hexagon socket set screw 4x6 M2,5
Grani M3	Cone point hexagon socket set screw 5x8 M3
Grani M2	Cone point hexagon socket set screw 4x8 M2
Vite filettata a testa esagonale 8x65	Hexagon head threaded screw 8x65
Rondelle M8	Wide band washer 8,4x24 M8
Vite filettata a testa esagonale 12x40	Hexagon head threaded screw 12x40
Vite filettata a testa esagonale 12x50	Hexagon head threaded screw 12x50
Dado m10	Locking nut CH19 M10










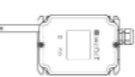

COMPONENTE	DESCRIZIONE
Vite a testa tonda m5	Hexagon socket button head screw 8x15 M5
Bussolotto filettato M8	Threaded bushing M8
Vite a testa svasata M8	Hexagon socket countersunk head screw 10x25 M6
Vite a testa svasata M8	Hexagon socket countersunk head screw 10x50 M8
Vite a testa svasata M8	Hexagon socket countersunk head screw 10x60 M8
Giunti doppi per catena	
Aggancio per manina	
Scatolato per sollevamento	
Coppia di barriere di sicurezza	
Cavi per barriere di sicurezza	
Pulsante	

GUIDA ALLA SCELTA

#5_GLI OPTIONAL

Completa il tuo kit

COMPONENTE	DESCRIZIONE	
Lampeggiante		
Adesivi di sicurezza		
Canalina 1x1 cm		
Canalina 5x5 cm		
Riduttore	Reducer	
Motore	Engine	
Encoder	Electronic Limit Switch: Encoder	
Cavi motore	Motor wiring cables	
Cavi	Wiring cables	
Pannello di controllo	Control panel	
Sblocco manuale	Manual chain release	

COMPONENTE	
Top cover - upper part	
Top cover - frontal part	
Top cover - bottom part	
kit radio band	
flashing	
open	
beep beep	
magnetic loop	
receiver	
limit switch	
remote control unit	

United States

United Kingdom

Nederland

Germany

France

Spain

Italy

Korea

Working with us?

**WE ARE WAITING
FOR YOU.**



THERMICROLL

Via Artigianale 5
12040 Vezza d'Alba (CN) - Italia
Tel. +39.0173.658242
info@thermicroll.com
P.I. 03389310040