![BMP HIGH SPEED DOORS]

DynamicRoll®
MS150

TECHNICAL DATA

HIGH SPEED
Up o 1,8 m/s

PROTECTION

OIL FREE

SAFE

DynamicRoll® **MS150** is a roll up door for applications where a protective mechanical barrier is needed to protect machineries and automated lines. Equipped with a **safety micro switch** installed in the bottom part of column (accessible), that assures a signal of door closed separately to the control panel.
The curtain is equipped with lateral zippers that assures the sealing of all door columns full height, for ideal protection.

- The door complies with the machinery directive **2006/42/EC** and the directive **2014/30/EU (EMC).**
- Safety of control circuits **PL D** *(Performance Level)* according to **EN 13849-1** or **SIL 2** *(Safety Integrity Level 2)* according to **IEC 62061.**

MAXIMUM DIMENSIONS	**W** 6.000 mm x **H** 5.000 mm
SPEED	**Max opening speed** Up to 1,8 m/s
	Closing speed 0,8 m/s
CYCLES TEST	1.000.000
WIND RESISTANCE	3.000 x 3.000 Class 4
STRUCTURE	Not self-supporting
FRAME / MOTOR COVER HOOD	**Standard** Galvanized steel
	Optional • Powder coated steel • Stainless steel 441/316
CURTAIN	**Standard** PVC curtain 1.300 g/m², 6 W/m²K
	Optional • Translucent 35/40% • FDA (white) • Antistatic
CONTROL PANEL	**Standard** Powder coated steel box IP54 (300 x 500 x 150 mm)
	Optional • Stainless steel • PVC box IP65 (300 x 400 x 150 mm)
	Inverter system 50/60 Hz with absolute encoder
	Power supply 1-ph, 230V max 16A
	Power supply 3-ph, 400V max 10A
	Power supply 3-ph, 230V max 16A
	Start/ Stop button
	2 free contacts (door open / closed / alarm)
	Automatic / Manual Interlocking between 2 doors
	IP rating for motor and control panel IP54
WIRING	Plug and Play IP65 system
SAFETIES	**Standard** Multi ray light curtain barrier H 2500 IP67
EMERGENCY OPENING	**Standard** Hand crank
	Optional Chain system Counterweight system UPS battery
ADVISING OPERATIVE TEMPERATURE	Operating till -30 C°* with heating kit added - Not apt to be installed in negative/positive temperature

EN13241 CERTIFICATION

STANDARD	REF.	TEST ACC.	RESULTS
WATER PERMEABILITY	EN 12425	EN 12489	Class 2
WIND LOAD	EN 12424	EN 12444	Class 4
AIR PERMEABILITY	EN 12426	EN 12427	Class 1
SAFE OPENINGS	EN 12453	EN 12445	✓
MECHANICAL RESISTANCE	EN 12604	EN 12605	✓
UNINTENDED MOVEMENTS	EN 12604	EN 12605	✓
THERMAL TRANSMITTANCE	EN 12428	EN 12428	6,02 W/m²K
PERFORMANCE (CYCLES)	EN 12604	EN 12605	1.000.000

Values can change depending on door dimensions

IMPACT TEST

E N I S O 1 4 1 2 0
CERTIFICATION

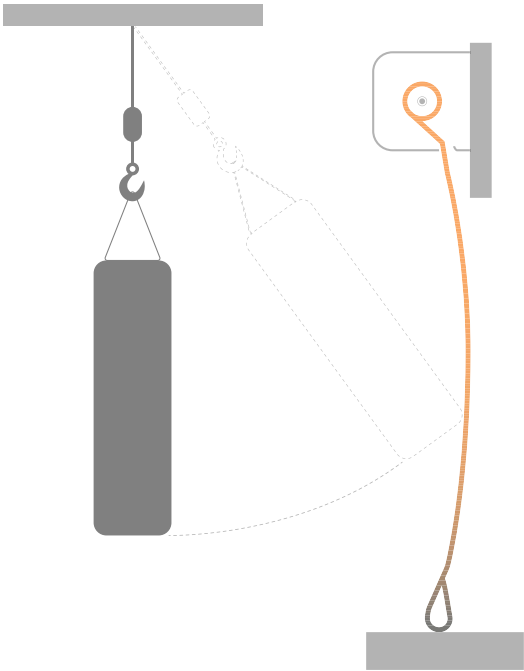**100** x **6**
KG   KM/H

Tested impact energy **115 JOULES**

(Annex C - C.2.5.1)

APPLICATIONS

Industry, automated production lines

Conveyor lines

DynamicRoll MS**150**

DOOR SPACE REQUIREMENTS

450

510

350

250

250

H

300

500

150

W

150

145

Safety barrier
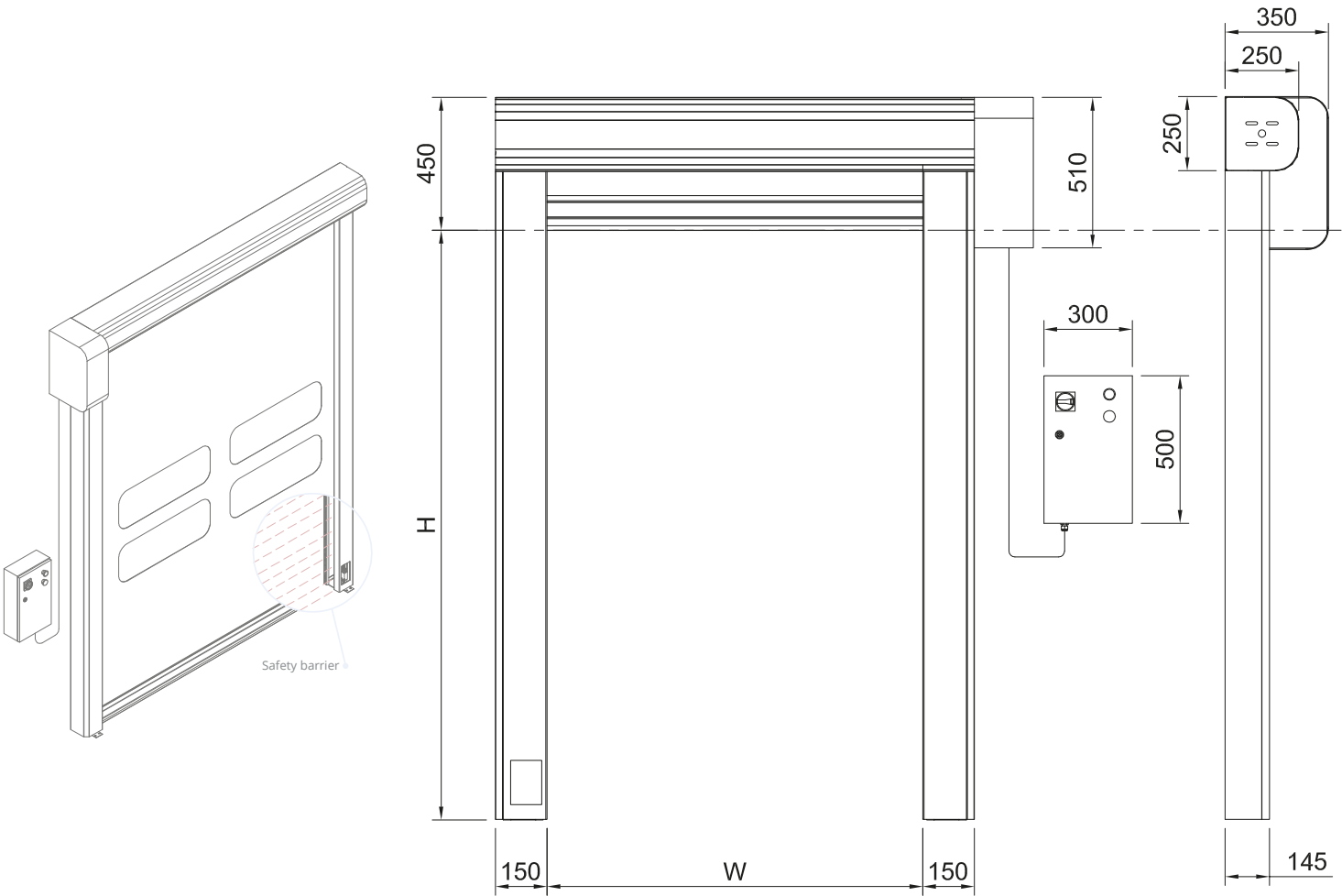
FIXING DETAILS

PVC CHARACTERISTICS

STANDARD PVC

Composition and tests

EXTERNAL SIDE

Material	Finishing	Color	Thick
PVC	Opaque	18 standard	0,7 mm

FABRIC

Material	N. tarps	Title	EN 2286-2
PES	1	1100Dtex 12x12	900 g/m²

INTERNAL SIDE

Material	Finishing	Color	Thick
PVC	Rough	18 standard	0,2 mm

COLD RESISTANCE
ISO 4675/90
-50°C ±5

HYDROLYSIS TEST
75°C 95% humidity
none variation

GAS OIL TEST
-
none variation

MARINE WATER TEST
-
none variation

OZONE TEST
ISO 3011
none crack

T. STORAGE
(°C)
-30 +65

FLAME TEST
ISO 3795
< 100 mm/min

PERFORATION
RINA 3.A1.2.7
(N) > 100

EXERCISE 7 days -70°C
ISO 6065
none variation

Characteristics

THICK
ISO 2286/3
(mm) 0,9±0,1

WEIGHT
ISO 2286/2
(kg/m2) 0,90±0,1

LOAD BREAK
ISO 1421
6000 N/50mm

WARP EXTENSION
ISO 1421
4300 N/50mm

TEXTURE EXTENSION
ISO 1421
4000 N/50mm

WARP BREAK
dIN 53363
(N) > 600

TEXTURE BREAK
dIN 53363
(N) > 530

ADHESION
dIN EN ISO 2411
130 N/50mm

EEC CONFORMITY
-
Yes

SPECIFIC USE
industry, refrigerators, car washes, supermarkets, warehouses

ASSOCIATION
-

Colors

SIMIL RAL **9005**	SIMIL RAL **9010**	SIMIL RAL **1015**	SIMIL RAL **1003**
SIMIL RAL **2004**	SIMIL RAL **3002**	SIMIL RAL **6026**	SIMIL RAL **6018**
SIMIL RAL **7042**	SIMIL RAL **7037**	SIMIL RAL **7035**	SIMIL RAL **8017**
SIMIL RAL **9006**	SIMIL RAL **5012**	SIMIL RAL **5002**	SIMIL RAL **5010**
SIMIL RAL **7016**	FDA SIMIL RAL **9010**	SIMIL RAL **7038**	

⚡ Antistatic available
FDA (Food Drug Administration) certificated pvc available

INSULATED PVC

Composition and tests

EXTERNAL SIDE

Material	Finishing	Color	Thick
PVC	Straight	6 standard	0,5 mm

FABRIC

Material	N. tarps	Title	EN 2286-2
PES	1	1100Dtex 12x12	1350 g/m²

INTERNAL SIDE

Material	Finishing	Color	Thick
PVC	Sponge	6 standard	7 mm

COLD RESISTANCE
ISO 4675/90
-10°C ±5

HYDROLYSIS TEST
75°C 95% humidity
none variation

GAS OIL TEST
-
none variation

MARINE WATER TEST
-
none variation

OZONE TEST
ISO 3011
none crack

T. STORAGE
(°C)
-30 +65

FLAME TEST
ISO 3795
cl 2, NFPA 701 test 2

PERFORATION
RINA 3.A1.2.7
(N) > 100

EXERCISE 7 days -70°C
ISO 6065
none variation

Characteristics

THICK
ISO 2286/3
(mm) 7,0±0,1

WEIGHT
ISO 2286/2
(kg/m2) 1,7±0,1

LOAD BREAK
ISO 1421
6000 N/50mm

WARP EXTENSION
ISO 1421/V1
3000 N/50mm

TEXTURE EXTENSION
ISO 1421/V1
2800 N/50mm

WARP BREAK
dIN 53363
300 N

TEXTURE BREAK
dIN 53363
300 N

ADHESION
PA 09.03 (internal)
15 N/cm

THERMAL CONDUCTIVITY
-
0,03782 W.m^{-1}

ISOLATION INDEX
-
Rw= 17,5 dB

EMPLOYMENT
industry, refrigerators, car washes, supermarkets, warehouses

ASSOCIATION
-

Colors

SIMIL RAL **9010**	SIMIL RAL **1003**
SIMIL RAL **2004**	SIMIL RAL **3002**
SIMIL RAL **7035**	SIMIL RAL **5002**

DynamicRoll® MS150
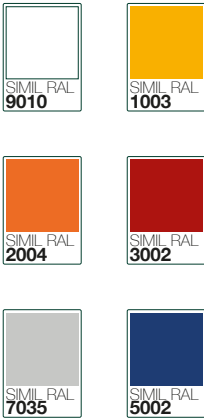
CRISTAL CHARACTERISTICS
PVC SUPERCLEAR

⚠️ **SUITABLE ONLY FOR POSITIVE TEMPERATURE ENVIRONMENTS**

WINDOWS - *CRISTAL*
TECHNICAL DATA

Article	SUPERCLEAR 1.2 mm FR

Technical specifications	Standards	Unit	Values
Thickness	-	mm.	1.2
PVC total weight	-	g/m^2	1200
Light transmission	JIS K - 7361	%	97.3
Tensile strength *Lengthwise MD*	JIS K - 6732	N	26.1
Tensile strength *Crosswise TD*	JIS K - 6732	N	24.3
Tear strength *Lengthwise MD*	JIS K - 6732	N	63.4
Tear strength *Crosswise TD*	JIS K - 6732	N	63.9
Elongation *Lengthwise MD*	JIS K - 6732	%	377
Elongation *Crosswise TD*	JIS K - 6732	%	378
Cold crack resistance	JIS K - 6772	°C	-45

OPTIONAL ACCESSORIES

RADAR

OPENING POINT RADAR TOF/SPOT for internal use only

INFRARED RADAR with cross-movement adjustment

INFRARED RADAR motion and presence (pedestrian/forklift) radar
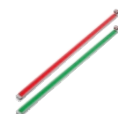
TRAFFIC LIGHTS

GREEN FIXED STANDARD traffic light

RED FIXED STANDARD traffic light

LED TRAFFIC LIGHT with countdown

LED TRAFFIC LIGHT BARRIERS (connection card included)

BUTTONS

OPENING GREEN BUTTON with box

OPENING BLACK BUTTON with box

FREEZE STOP BUTTON with box

NO TOUCH BUTTON

TRAFFIC LIGHT BUTTON DUAL-FUNCTION opening and intermittent door opening/closing signaling

WIND GAUGE

KEY SELECTOR

REMOTE CONTROL

BOLLARD B-PROTECT

PULL CORD SWITCH

MAGNETIC LOOP DETECTOR