

Hipharma AL/ST/STZ/UPVC DOUBLE SWING OUT DOORS

Nicomac DOUBLE SWING OUT DOORS are designed to fit flush on both sides of the wall panel system.

They are supplied in several sizes.

All hinge fasteners and latches are recessed in the door frame.

Door panel includes:

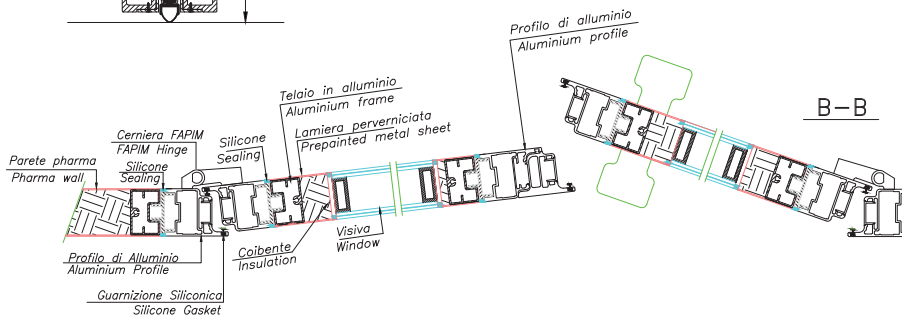
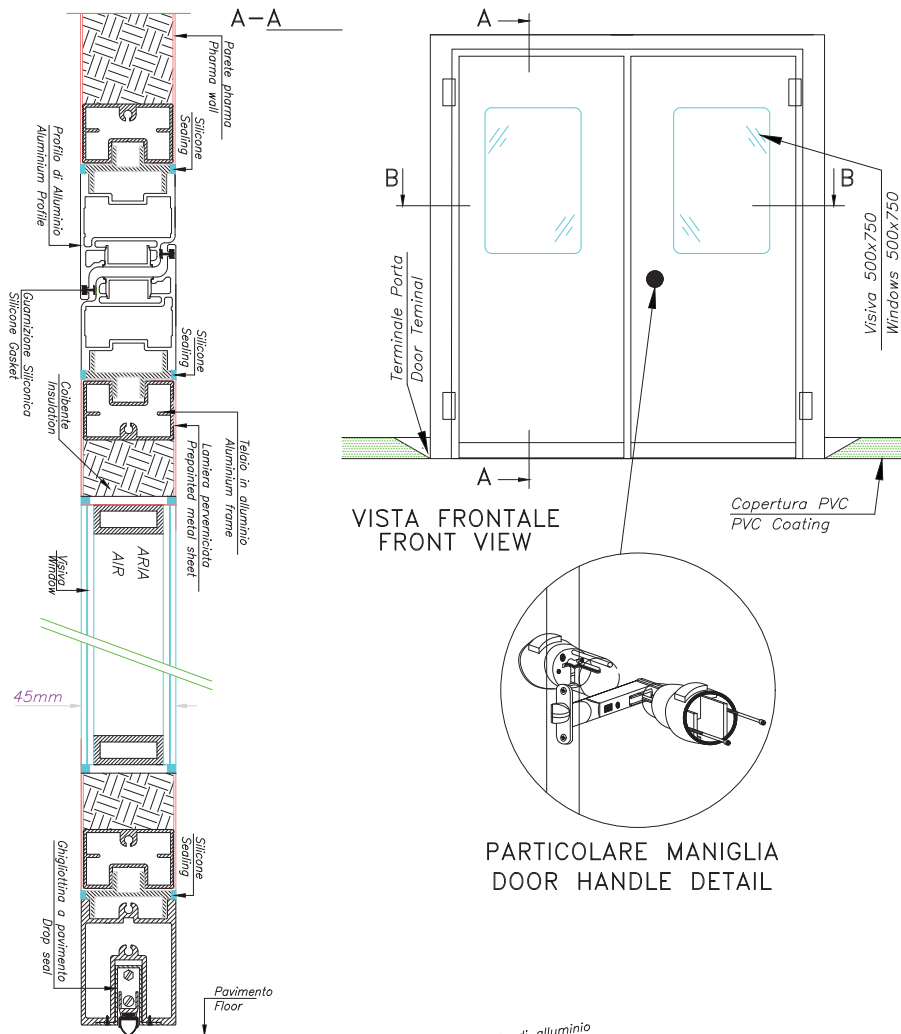
- skin layers in powder coated aluminium (AL), powder coated galvanized steel (ST), galvanized steel in AISI 304 st.st. (STZ) or UPVC
- insulation material
- internal welded rectangular aluminum framework
- external frame manufactured with round anodized or powder coated alu profiles (depending on customer's request) with air tight dual gaskets
- H Aluminum profile between wall sections (0.4mm seal gap precision)
- Food grade silicone sealant to caulk panel seams



DOUBLE SWING OUT DOOR CODE	DOOR THICKNESS	POWDER COATED ALUMINIUM	POWDER COATED GALVANIZED STEEL	GALVANIZED STEEL IN AISI 304 ST.ST.	UPVC	ANTI-BACTERIAL UPVC	INSULATION MATERIALS AND THEIR TECHNICAL FEATURES								
							POLYSTYRENE (HDP)		POLYURETHANE (PUR OR PIR)		HONEYCOMB (HC)		ROCKWOOL (RW)		
							Density:	35Kg./m ³	Density:	35Kg./m ³	Density:	40Kg./m ³	Density:	130Kg./m ³	
DB45-AL-HDP-AL 12/5930	45mm	•													
DB45-ST-HDP-AL 12/5930	45mm		•												
DB45-ST.AG-HDP-AL 12/5930	45mm					•									
DB45-STX-HDP-AL 12/5930	45mm			•			•								
DB45-ST/UPVC-HDP-AL 12/5930	45mm				•										
DB45-AL-HDPU-AL 12/5930	45mm	•													
DB45-AL-PIR-AL 12/5930	45mm	•													
DB45-ST-HDPU-AL 12/5930	45mm		•												
DB45-ST-PIR-AL 12/5930	45mm		•												
DB45-ST.AG-HDPU-AL 12/5930	45mm					•									
DB45-ST.AG-PIR-AL 12/5930	45mm					•									
DB45-STX-HDPU-AL 12/5930	45mm			•											
DB45-STX-PIR-AL 12/5930	45mm			•											
DB45-ST/UPVC-HDPU-AL 12/5930	45mm				•										
DB45-ST/UPVC-PIR-AL 12/5930	45mm				•										
DB45-AL-HC-AL 12/5930	45mm	•													
DB45-ST-HC-AL 12/5930	45mm		•												
DB45-ST.AG-HC-AL 12/5930	45mm					•									
DB45-STX-HC-AL 12/5930	45mm			•											
DB45-ST/UPVC-HC-AL 12/5930	45mm				•										
DB45-AL-RW-AL 12/5930	45mm	•													
DB45-ST-RW-AL 12/5930	45mm		•												
DB45-ST.AG-RW-AL 12/5930	45mm					•									
DB45-STX-RW-AL 12/5930	45mm			•											
DB45-ST/UPVC-RW-AL 12/5930	45mm				•										
DB52-ST-HDPU-ST	52mm		•							•					
DB52-ST-PIR-ST	52mm		•							•					
DB52-ST-HC-ST	52mm		•								•				
DB52-ST-RW-ST	52mm		•										•		
DB52-STX-HDPU-STX	52mm			•						•					
DB52-STX-PIR-STX	52mm			•						•					
DB52-STX-HC-STX	52mm			•							•				
DB52-STX-RW-STX	52mm			•									•		

Hipharma AL/ST/STZ/UPVC DOUBLE SWING OUT DOORS

DOUBLE DOOR 45-ST

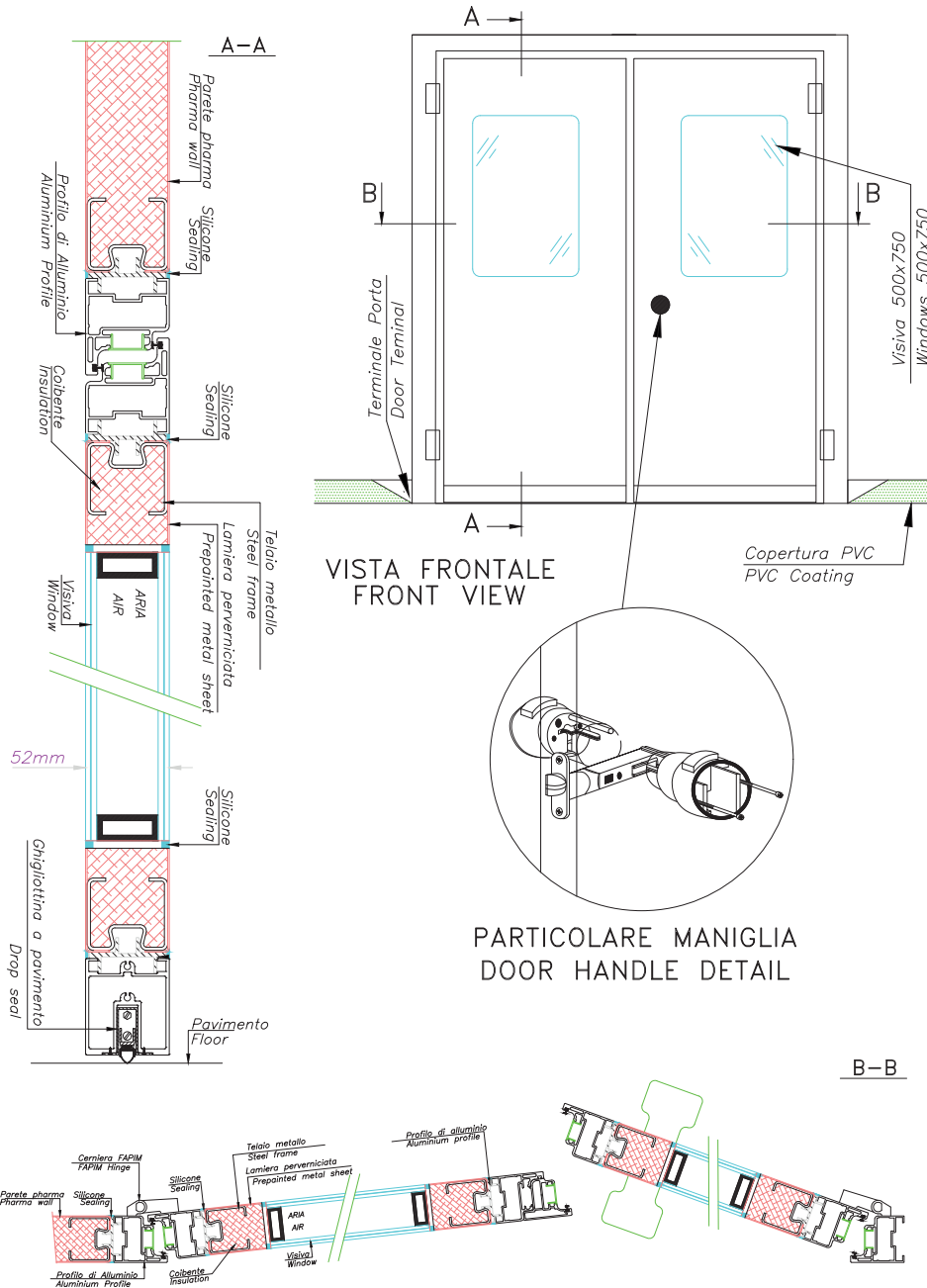


DOOR ACCESSORIES
Internal self closing system complete with stop
External self closing system complete with arm and stop
Anodized fixed knob
Fixed knob in silver colour
Open close knob in silver colour with key-key
Anti panic handle (first wing)
Anti panic handle (second wing)
Air tight guillotine (drop seal) to maintain differential air pressure

DOOR INTERLOCKING SYSTEM
PLC Operated door interlock, MECHANICAL type (it includes light indicators, covers, cables and mechanical lock)
PLC Operated door interlock, SEMAPHORIC type (it includes light indicators, covers and cables)
Magnetic closure (it includes four magnets inserted inside door frame)

Hipharma AL/ST/STZ/UPVC DOUBLE SWING OUT DOORS

DOUBLE DOOR 52-ST



DOOR ACCESSORIES

Internal self closing system complete with stop
External self closing system complete with arm and stop
Anodized fixed knob
Fixed knob in silver colour
Open close knob in silver colour with key-key
Anti panic handle (first wing)
Anti panic handle (second wing)
Air tight guillotine (drop seal) to maintain differential air pressure

DOOR INTERLOCKING SYSTEM

PLC Operated door interlock, MECHANICAL type (it includes light indicators, covers, cables and mechanical lock)
PLC Operated door interlock, SEMAPHORIC type (it includes light indicators, covers and cables)
Magnetic closure (it includes four magnets inserted inside door frame)

Hipharma AL/ST/STZ/UPVC DOUBLE SWING OUT DOORS

POWDER COATED ALUMINIUM		STANDARDS
Alloy	EN-AW 5005	UNI EN 573/3
Physical state	H42	EN 515
Paint type	PE powder, without TGIC	EN 1396
Rm	Mpa 125 ÷ 165	EN 1396
Rp0,2	Mpa 80 min	EN 1396
A50mm	% 5 min	EN 1396
Paint thickness	55 µm (45 min.)	EN 13523-1
Pencil hardness	H KOH-I-NOR	EN 13523-4
Gloss @60°	80 units min.	EN 13523-2
Adhesion 90°/180°	100%	
Resistance to bending	0,5 T	EN 13523-7
Resistance to Hydrogen Peroxide	the paint doesn't change colour or gloss after immersion for 96 hours in a H ₂ O ₂ solution at 60°C. The test procedure should simulate the sterilization process through O ₂ gas	

DOOR CODE	STANDARDS	CLASS		
DB45-AL-HC-AL 12/5930	UNI EN 13501-1:2009	A2-s1,d0		
DB45-ST-HC-AL 12/5930				
DB52-ST-HC-ST				
DB52-STX-HC-STX				
DB45-STX-HC-AL 12/5930				
DB45-AL-RW-AL 12/5930				
DB45-ST-RW-AL 12/5930				
DB52-ST-RW-ST				
DB45-STX-RW-AL 12/5930				
DB52-STX-RW-STX				
DB45-ST/UPVC-HC-AL 12/5930			UNI EN 13501-1:2009	A2-s2,d0
DB45-ST/UPVC-RW-AL 12/5930				
DB45-ST.AG-HC-AL 12/5930			UNI EN 13501-1:2009	B-s1,d0
DB45-ST.AG-RW-AL 12/5930				
DB45-AL-HDP-AL 12/5930	UNI EN 13501-1:2009	B-s2,d0		
DB45-ST-HDP-AL 12/5930				
DB45-STX-HDP-AL 12/5930				
DB45-AL-HDPU-AL 12/5930				
DB45-AL-PIR-AL 12/5930				
DB45-ST-HDPU-AL 12/5930				
DB52-ST-HDPU-ST				
DB52-STX-HDPU-STX				
DB45-ST-PIR-AL 12/5930				
DB52-ST-PIR-ST				
DB52-STX-PIR-STX				
DB45-STX-HDPU-AL 12/5930				
DB45-STX-PIR-AL 12/5930				
DB45-ST/UPVC-HDP-AL 12/5930				
DB45-ST/UPVC-HDPU-AL 12/5930				
DB45-ST/UPVC-PIR-AL 12/5930				
DB45-ST.AG-HDP-AL 12/5930				
DB45-ST.AG-HDPU-AL 12/5930				
DB45-ST.AG-PIR-AL 12/5930				

POWDER COATED STEEL		STANDARDS
Galvanized Coating	150 ± 10 g/m ²	
Paint type	PE powder, 24 µm	EN 13523
Specular gloss	32 u	EN 13523
Pencil hardness	H	EN 13523
MEK resistance	100 u	EN 13523
Conic drill chuck	3,7 mm	EN 13523
TB test adhesion	100%	EN 13523
Impact tester	32 Kg/cm ²	EN 13523

UPVC		STANDARDS
Nominal thickness (coating film)	100 µm	
T-bend	1/2 T	EN 13523-7
Salt fog resistance	500 hours	EN 13523-8 ASTM B117-16
Relative humidity resistance	1000 hours	ASTM D4585-13
Gloss @60°	40 ± 5	EN 13523-2
Resistance to abrasion	13-14 (at 1000runs)	ASTM D4060-95
Resistance to: NaCl - H2SO4 at 2% - NaOH at 5% Denatured ethyl alcohol Merk Buffer pH 10	24 hours	EN 13523-18 D 1308-2

UPVC ANTIBACTERIAL SANISTEEL VERSION WITH SILVER IONES		STANDARDS
Nominal thickness (coating film)	100 µ - 200 µ	
T-bend	1/2 T	ECCA T7
Salt fog resistance	500 hours	ASTM B117-95 ECCA T8
Relative humidity resistance	1000 hours	ASTM D224794
Pencil hardness	HB	ASTM D3363-92a ECCA T4
Gloss @60°	40 ± 5	ASTM D523-89 ECCA T2
Resistance to abrasion	13-14 (at 1000runs)	ASTM D4060-95
Resistance to NaOH at 5%	16 hours	ASTM D1308-87 ECCA T18
Resistance to bacterial strain: Escherichia coli, Klebisella pneumonie, Staphylococcus aureus, Salmonella typhimurium, Listeria monocytogenes, Legionella pneumophilla, Pseudomonas aeruginosa		ISO 22196:2007 ASTM E2180-07 JISZ 2801

STAINLESS STEEL AISI304		STANDARDS
Hardness	80 ⁽²⁰⁾ HRB max	EN 1.4301 ⁽¹⁰⁾
Density	7,9 kg/dm ³ at 20°C	EN 1.4301 ⁽¹⁰⁾
Elasticity modulus	200 kN/mm ² at 20°C	EN 1.4301 ⁽¹⁰⁾
Average thermal expansion coefficient	16,5 [10 ⁻⁶ ×K ⁻¹] (20°C ÷ 200°C) 17,5 [10 ⁻⁶ ×K ⁻¹] (20°C ÷ 400°C)	EN 1.4301 ⁽¹⁰⁾ EN 1.4301 ⁽¹⁰⁾
Thermal conductivity	15 [W/(mxK)] at 20°C	EN 1.4301 ⁽¹⁰⁾
Specific heat	500 [J/(kgxK)] at 20°C	EN 1.4301 ⁽¹⁰⁾
Electrical resistivity	0,73 [(t xmm ²)/m] at 20°C	EN 1.4301 ⁽¹⁰⁾