



AL/SA MasterSan™

Flexible hose made with AL (aluminium) wall coupled to addivated polyolefin resins film with anti-bacterial, anti-mildew and anti-viral material protection. Inner helix made of steel wire.
The set of materials for the construction of the flexible conduit does not require the use of chemical agents, glues or adhesives.

MasterSan™
in collaboration with:



TECHNICAL SPECIFICATIONS AND USAGE LIMIT

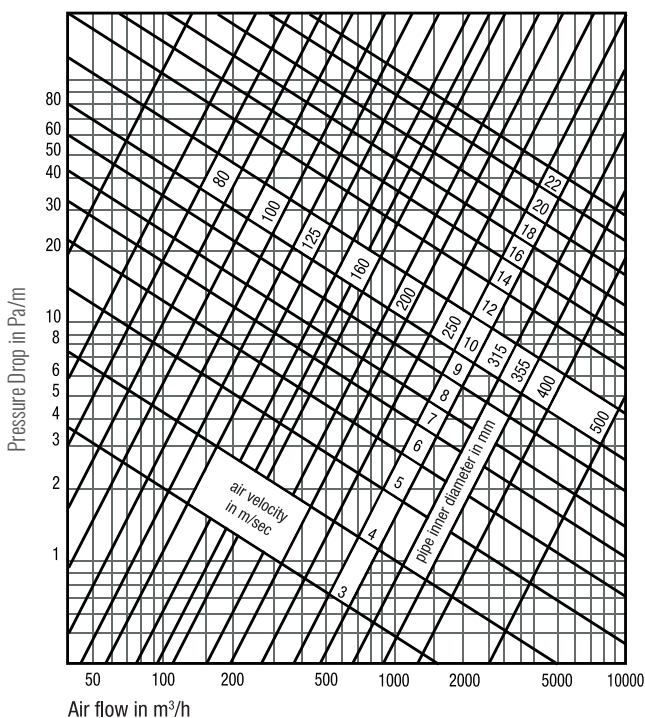
COLOR	LENGTH	PRODUCTION DIAMETERS	WORKING TEMPERATURE	CURVATURE RADIUS	AIR SPEED	PRESSURE
Internal Grey / Outer Aluminium	10 m standard	from 82 to 508 mm	-20°C / +90°C (peak +110°C)	0,6 x Ø	max 32 m/sec	max 250 mmH ₂ O

PRODUCTION DIAMETERS

82	102	127	152	160	180	203	228*	254	305	318	356	406	457*	508*
----	-----	-----	-----	-----	-----	-----	------	-----	-----	-----	-----	-----	------	------

*Diameters available on request
Diameters other than those indicated are available by prior feasibility check.

PRESSURE DROPS DIAGRAM (Air temperature 20°C)








PRESSURE DROPS TABLE WITH CALCULATION EXAMPLES

To calculate the flow rates and pressure drops of other diameters, use the beside diagram.

DIAMETERS [mm]	AIR SPEED 8m/s		AIR SPEED 10m/s	
	FLOW RATE [m3/h]	PRESSURE DROP [Pa/m]	FLOW RATE [m3/h]	PRESSURE DROP [Pa/m]
82	152	19	190	31
102	250	15	333	24
127	383	12	368	18
160	575	8	773	14
203	900	7	1151	11
254	1445	5	1843	8
318	2278	4	3105	6
356	3058	3	3850	5
406	3845	3	4590	4
508	5111	2	8223	3

CERTIFICATIONS

MATERIAL PROTECTION	ALUMINIUM WALL	SA10 WALL
 <p>Count tests: JIS L 1902</p> <p>Testing the antibacterial activity and efficacy on textile products</p> <p>Country / Year: Japan / 2002</p> <p>Test Item: 7 days, 8 days pre-treatment</p> <p>Test of application: Antibacterial resistance (on textiles, on fabric, on fabric)</p> <p>Sample size: Five specimens with 0.4 g in a standard determination</p> <p>Scope: This method is applied for the quantitative determination of the antibacterial effectiveness of non-diffusible active substances.</p> <p>Abstract: Specimens are contaminated with a standard number of a given micro-organism (bacteria); after incubation for 72 hours at 37°C, the micro-organisms on the test material are washed off with a defined amount of water. The number of colony forming units (CFU) is determined and expressed logarithmically. From this number the antimicrobial effect can be calculated.</p> <p>Test assessment: Evaluation is based on the difference in bacteria count (in terms of the logarithm) after and before contact with the test material and reduction. "Antimicrobial Activity 2" is given as logarithmic and percentage value.</p> <p>Test Organisms: Staphylococcus aureus ATCC 49619 Escherichia coli ATCC 12228 Bacterium pneumoniae ATCC 4322</p> <p>Explanation of the bactericidal activity: 0.0% germ growth, sufficient antibacterial effect 0.7% to 40%: no significant germ reduction, insufficient antibacterial effect 40%: significant germ reduction, good antibacterial effect.</p>    	<p>Class 1 (D.M. 26/06/84)</p>	<p>Class 1 (D.M. 26/06/84)</p>

GREEN BUILDING

Thanks also to the support of GreenMap, products manufactured by Tecnica srl contribute to obtain the credits of the major international rating systems for sustainable buildings:



LEED

Contributes to credits:
IP, EA, MR



WELL

Contributes to credits:
MATERIALS, COMMUNITY















BREEAM

BREEAM

Contributes to credits:
MAN, WST

For further details regarding the specific contributions to the credits indicated, contact Tecnica srl

APPLICATIONS

								
OEM	Residential	Flexibility	Easy Pack	Self-extinguishing	Mold Resistant	Microorganism Resistant	Tear Resistant	Calibrated Diameters*
								
REACH Certifie	RoHS Certifie	Halogen Free	Compact Version*	Industry	Building	Air Conditioning	CMV	Non-magnetic*
								
CMV transp. Means	CMV Mech. Means	Recreational Boats						

*on request