



Stainless duct systems

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Methods of use

EN 1.4301, which is the most common grade of stainless steel with a range of uses including kitchen equipment, domestic appliances, other purposes for indoor use and for slightly corrosive outdoor atmospheres, consists of approximately 9% nickel, 18% chromium and the rest steel.

EN 1.4404, which is recommended for use in coastal areas and in polluted city or industrial atmospheres, consists of approximately 11% nickel, 17% chromium, 2.7% molybdenum and the rest steel. It is through the amalgamation with molybdenum that the improved corrosion properties are obtained.

Despite the fact that a lot of energy is consumed in the production of stainless steel, these materials are worthwhile from an environmental and cost perspective. The reason for this is that a large proportion of scrap is retrieved for amalgamation, that in many cases surface treatment is not necessary and that the need for maintenance decreases as the service life of the constructions increases.

The raw material

Ducts and fittings are manufactured as standard from bright annealed (BA) stainless steel sheets. These grades have a very bright and even surface with a finish that is aesthetically pleasing.

The circular duct system

The circular system is part of the Lindab Safe range of products and is manufactured as standard with a double, factory-installed seal moulding made of EPDM rubber. Standard dimensions are manufactured with a turned-over edge, which provides very good structural stability and increased durability against damage caused through handling. The most common bends in smaller dimensions are rationally shaped in machine presses.



For substances that cannot be tolerated by seal mouldings made of EPDM rubber – see the table about how various substances affect the seal moulding in Lindab’s catalogue on air duct systems under the section “Safe” – seal mouldings made of silicone can be used instead. If this additional option is not possible, fittings without seal mouldings can be manufactured.

The rectangular duct system

The rectangular system, which is part of the LindabRekt range of products, consists of rectangular ducts and fittings with dimensions adapted to SS-EN 1505 unless otherwise specified. The system is stable, homogeneous and torsional rigid thanks to reinforcement profiles and trapezoidal corrugated duct walls.

	Ferritic stainless steel (Magnetic)			Equivalent Austenitic stainless steel (not magnetic)		
	EN	AISI (UNS)	SS	EN	AISI (UNS)	SS
Lindab Stainless Steel	1.4509	(43932)	-	1.4301	304	2333
Lindab Stainless Steel Acid Proof	1.4521	444	2326	1.4404	316L	2348

