





## Industrial Machinery and Equipment

# Expanded Metal Mesh



Location	Minas Gerais, Brazil
Environment	Outdoor
Grade/surface	1.4003 and 304
Manufacturer	Jati Inox
Material supplier	Aperam South America
Source of information	Aperam South America

Expanded Metal is a simple, cost-effective and efficient form of fencing or enclosure which is produced from solid sheets of metals, including stainless steel. Because it is manufactured from a solid sheet, without weaving or welding, the woven finish can never unravel and the resultant sheet is more secure. The expanded metal is produced by simultaneously partially slitting and stretching the sheet, which expands the cuts into diamond shaped holes of a uniform size and shape. Because there is no metal loss in the manufacturing process, this form of fencing or enclosure is very cost effective and saves significantly on raw materials. Jati Inox, of Catas Altas in Minas Gerais, Brazil, working in conjunction with Aperam South America, has used 5 mm sheets of ferritic grade 1.4003 and austenitic grade 304 to produce expanded metal fences and enclosures for Brazil's very active mining industry, where its increased strength and corrosion resistance give it a greater durability in the particularly aggressive conditions, which are experienced in underground mining. The result is a clean structure that is secure and relatively simple to install.