Transport

Madrid Metro

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Stainless steel has been widely used in the Madrid Metro because of its durability, ease of cleaning and aesthetic appearance.

Location/environment I MADRID, SPAIN/INDOOR

Product I STAINLESS STEEL SHEET

Fabrication process

Grade/surface I 304/SATINATED

Material thickness/diameter I 2.0 MM

Weight

Competing material

Date of completion I JUNE 2008

Manufacturer I INOXBIER

Material supplier I ACERINOX, S.A.

Source of information I CEDINOX

Remarks

Transport

Railway Wagons

The use of modified chromium-alloyed stainless steel 1.4003 has significant advantages over carbon steels in this application. The corrosion resistance of this grade means the cost of operating the wagons is more attractive over their lifecycle. Modified 1.4003 also has higher strength over carbon steels, enabling a greater load bearing capacity while reducing the weight of the wagon.

Location/environment | AUSTRALIA AND CHINA/OUTDOOR

Product | HOLT ROLLED STAINLESS STEEL SHEETS

Fabrication process | FORMING AND WELDING

Grade/surface | 1.4003 MODIFIED, HOT ROLLED/NO. 1 FINISH

Material thickness/diameter | 3.5 TO 8.0 MM

Weight

Competing material | CARBON STEEL

Date of completion | ONGOING

Manufacturer | QUEENSLAND RAIL, BRADKEN, UNITED, QRRS

Material supplier | THYSSENKRUPP STAINLESS

Source of information | THYSSENKRUPP STAINLESS

Remarks

Transport

Subway Car, Beijing

Stainless steel is an ideal solution for subway cars due to its strength and light weight. Grade 301L was selected for this subway car for Beijing's new No. 10 subway line.

Location/environment | BEIJING, CHINA/INDOOR AND OUTDOOR

Product | STAINLESS STEEL PIPE AND PLATE

Fabrication process | FORMING AND WELDING

Grade/surface | 301L

Material thickness/diameter

Weight

Competing material | CARBON STEEL

Date of completion | JANUARY 2008

Manufacturer | CHANG CHUN RAILWAY VEHICLES CO., LTD.

Material supplier | TISCO

Source of information | TISCO

Remarks