

INOSSIDABILE

Edited and published by Centro Inox Servizi S.r.l.

Summary

For more detailed information please contact directly the names indicated at the end of each notification

COVER/PAGES 3/4

THE "PIG" CLEANING SYSTEM FOR FOODSTUFF CONVEYING PIPES

(Sistema di pulizia "PIG" per tubazioni alimentari)

To carry out emptying and cleaning operations in pipe circuits containing fluid foodstuff, a leading company in the area of plants for the food industry, has developed the new "PIG System" line. This system is based on a spherical or cylindrical device made of silicone suitable for foodstuff, pushed by compressed air, which drains and cleans the whole line. The "PIG" device is introduced in the circuit by means of one or more launching stations, which can be whether manually or automatically operated. This system proves extremely useful when different products (for example, products with different flavours) are conveyed in the same pipes to be used for further production cycles that cannot be contaminated. Stainless steel has been used for the construction of this plant, as this material is perfectly suitable for coming into contact with food products. Thanks to its corrosion resistance properties, also very acid foodstuff, such as tomato sauce, can be put into the plant. These characteristics make stainless steel particularly suitable for the construction of lined pipes with particular working solutions and anti-lock welding process.

EN 1.4307 or 1.4404 (AISI 304L o 316L) stainless steel has been used for the construction of all inlet and reception stations, as well as all pipe circuits, flanges, sleeves, bottom plates and fasteners. In general, the standard pipe diameters used for manufacturing the "PIG" lines are: 2 mm thick DN50 (60/90), DN65 (76/101), DN100 (101/139), DN200. Pipes are available either with a hot-process surface finishing, or with a brushed finishing, and are submitted to a pickling process after having been welded.

Production: FEA S.r.l. - Via Saluzzo 49 - I-12030 Scarnafigi CN, phone +39 0175 74134, fax +39 0175 74639, www.feasrl.com, info@feasrl.com / **Marketing:** Opessi Stefano S.r.l. - Via G. Pascoli 41 - I-20129 Milano, phone +39 02 23951349, fax +39 02 23951395, www.opessi.it, info@opessi.it

PAGE 5

THE SHOPPING CENTRE OF QUARTO IS GETTING DRESSED IN STAINLESS STEEL

(Il centro commerciale di Quarto si veste di inox)

The recently built "Quarto Nuovo" shopping centre of Quarto, in the province of Naples, is located in an extremely valuable area from the point of view of landscape and archaeology: the "Campi Flegrei". The winding front of the shopping centre is completely lined with metal elements consisting of 0.63 mm thick stainless steel plates, which give the façade a scaled aspect. The four sides of each scale are edged in order to allow it being sequentially clamped through a rim placed on two adjacent edges on one side, and on the other two adjacent edges on the opposite side.

This system, called "Caiman", has been used on a pre-existing concrete bearing structure, and is fitted to a steel omega-profile underlying structure. Scale dimensions (height and width) are variable, and reach a maximum 600x1000 mm size. The scales are "bronzed" by means of an electrocolouring process.

Customer: Unicoop Tirreno / **Building lining:** Gruppo Adroma - **Project Manager:** Arch. B. Sorrentino - **Project:** Arch. E. Bruno, Arch. C. Senatore - **Technical department:** Arch. A. Grimaldi, Geom. A. Zizzania / **Contractors:** Adroma Impianti Spa - Nuova Carmetal Srl / **Metal lining:** Sistema "Caiman" Arval by Arcelor-Mittal / **Supplier:** Sidercampania Service Srl - Via Tagliatelle snc - I-81020 San Marco Evangelista CE - phone +39 0823 422311, fax +39 0823 422313 - **Promotion and development department:** Dr.ssa Roberta Coppola, Sig. Luigi Daniele

STAINLESS STEEL FLOORS: A STEP FORWARD IN PRESTIGE ARCHITECTURE

(Pavimenti inox: un passo nell'architettura di prestigio)

Stainless steel is an engaging and effective alternative/complement to traditional flooring solutions, such as marble, granite, ceramics, carpeting and wood. The tiles we are showing here consist in an upper stainless steel "lid" with a high-density hardboard core, and a lower zinc-plated steel "lid". It is possible to build in this way a super-elevated stainless steel floor, which joins the typical durability and hygiene characteristics of this material, as well as limited maintenance needs, to the aesthetic requirements of modern architecture.

Subcontractor: Mainardi Sistemi Srl - V.le Europa 72 a/6-8 - I-20090 Cusago MI, phone +39 02 90119621, fax +39 02 90119701, www.mainardisistemi.it / **Supplier:** Arvic Metalli Srl - C.so Garibaldi 49 - I-20121 Milano, phone +39 02 99785190, fax +39 02 99785189, www.arvicmetalli.it / **Surface finishing:** Steel

Color Spa - Via Pieve Terzagni 15 - I-26033 Pescarolo Ed Uniti CR, phone +39 0372 834311, fax +39 0372 834015, www.steelcolor.it

PAGES 6-7

FROM OUR MEMBERS

COGNE ACCIAI SPECIALI

A History of Work, Commitment and Innovation

(Cogne Acciai Speciali - Una storia di lavoro, impegno e innovazione)

The company Cogne Acciai Speciali is one of the major European and world manufacturers of long stainless steel products in the area of: wire rod, bars, semi-finished products, automotive parts, tooling steels, powders, and improved adherence bars (Concrinox). Its power originates from the combination of two traditions, which join the steelworks on the one hand, and the traditional activities carried out by the Cogne group on the other. From this combination, Cogne Acciai Speciali has been able to draw the necessary force to win back the major markets of the world and to make a name for itself in Europe and world wide. The implementation of a rigorous policy aimed at controlling and reducing costs, along with an ambitious programme of investments in the reorganization of production activities and in the improvement and enhancement of all sales and business activities have proved essential for attaining these goals. Thanks to these priority choices, the company has been able to carry out a consolidation and development programme based on specialization in some niche areas, such as the mining and energy industries (including the nuclear industry), as well as in the automotive and the facilities industries.

The new press

A new 5,000 tons and fully-automatic press has been recently installed, which allows carrying out high-speed finishing processes (up to 70 strokes/minute) on products reaching lengths up to 22 m.

Certifications

In particular, through its Research and Development Department, the factory based in Aosta has succeeded in diversifying its production and in offering a unique range of products with high technological contents, conforming to the most severe international standards (UNI EN ISO 9001:2000 and ISO TS 16949 Quality Certifications, UNI EN ISO 14001:2004 Environmental Management Certification), among which in particular, Concrinox, special stainless steel reinforcement rods developed for the building industry.

With stainless steel bars for the building industry, steel and concrete sign a "stainless" pact

Because of their characteristics of high resistance to corrosion, as well as their durability and mechanical strength, the stainless steel Concrinox reinforcement rods can be used for any critical application, from the point of view of environmental conditions, capable to affect concrete reinforced with traditional bars, where inalterability represents a prestigious, and above all, a functional factor in terms of maintenance and cost saving. The round Concrinox reinforcement bars are supplied as: ribbed round bars and wire rod coils, threaded bars and fixing rods, mesh and lattice girders, anchors and strings.

Cogne Acciai Speciali makes its staff available to users. The staff is prepared to guide designers and planners in the choice of the most suitable material type, in order to meet their specific requirements, and provide them with a pre-sale and after-sale technical assistance service.

Concrinox properties

High resistance to corrosion agents; anti-seismic characteristics due to its high resistance to fatigue and its extreme ductility, cryogenicity, fire resistance, workability and weldability.

CONTACTS:

COGNE ACCIAI SPECIALI SpA - Via Paravera 16 - I-11100 Aosta, phone +39 0165 3021 - fax +39 0165 43833 / +39 0165 302394

PAGES 8-9

HOME CLEANING PRODUCTS FOR STAINLESS STEEL: COMPATIBILITY TESTS

(Prodotti per la pulizia domestica dell'acciaio inox: test di compatibilità)

Foreword

In the past months, several manufacturers of electric appliances and other kitchen equipment have diverted their attention from traditional stainless steel to alternative materials, and have been obliged to face, in addition, an ever-growing demand for the so-called anti-finger print finishing. This is the reason of the interest shown by one of the major manufacturers of home detergents in testing the compatibility of a new product with the new typologies of stainless steel used in the construction of cooktops, hoods, sinks,

etc. by some manufacturers of kitchen furniture. Centro Inox has backed this inquiry by identifying the appropriate stainless steel types on which these tests had to be performed, and by providing test samples.

Test purpose

Tests were aimed at evaluating the **compatibility** (namely, the absence of any deterioration of the surface aspect) of two new cleaning products (a cream and a fluid with a trigger dispenser) with the following stainless steel surfaces: EN 1.4509 (441) - 2R (BA) finishing, EN 1.4373 (AISI 202) - 2R (BA) finishing, EN 1.4016 (AISI 430) - 2R (BA) finishing, EN 1.4301 (AISI 304) - 2R (BA) finishing, EN 1.4016 (AISI 430) with anti-finger print finishing. It was decided to use exclusively the fluid trigger detergent in the case of the anti-finger print finishing.

Test performance

- 6 plates for each material type were chosen;
- The plates were preliminarily cleaned with ethanol in order to remove any trace of glue left by the surface protection film;
- The observation areas (1 cm²) were delimited by appropriate templates;
- "0-time" photographs of the isolated areas;
- 4 areas of each plate were isolated in order to be inspected after cleaning product application;
- For any material type, application of the cream product on three plates, and of the fluid product on the other three plates, for one minute at room temperature;
- The plates treated with the liquid detergent were simply rinsed with running water and dried. The plates treated with the cream detergent were first wiped with a sponge cloth, and subsequently rinsed and dried. This procedure was repeated for 10 times in all;
- The preliminarily identified test areas were examined under the microscope after respectively 1, 3, 10 contacts with the detergents.

Results

All inspections made after the tests, allowed ascertaining the absence of any corrosion phenomenon or any other modification. Only on the EN 1.4373 (AISI 202) steel sample, after the treatment with the cream product, some signs appeared, which however could not be attributed to corrosion, as they were only produced by the scrub of a sponge cloth commonly used for home cleaning on the surface.

Conclusions

After test performance, the manufacturer of the tested detergents decided to launch both products on the market, attaching the "Recommended for Stainless Steel Products" mark and the inscription "Tested by Centro Inox" to the dispenser. The labels of both products report in addition the applied test performance methods as a guarantee of product conformity to achieved results. *The tests were carried out on behalf of Bolton Manitoba S.p.A. by the laboratory Chelab S.r.l. The stainless steel samples were supplied by ThyssenKrupp Acciai Speciali Terni.*

PAGES 10-11

STAINLESS STEEL DOORS: FROM PURE FUNCTIONALITY... TO PURE AESTHETICS

(Porte inox: dalla funzionalità pura... all'estetica pura)

There are some applications in which the choice to use stainless steel is dictated by reasons that are almost exclusively connected to the functionality of the end product, while there are other applications in which the choice of stainless steel is based on reasons to be mostly sought in the domain of design, pure aesthetics and even fashion. We have chosen to present in this article two examples in which the functions of this material are quite different. In the first case, stainless steel is used for automatic doors in hospitals, while in the second case, the same material is used for manufacturing doors for residential buildings. The automatic hospital doors are available as air and water-tight sliding doors, or as hinged or swinging single-leaf and double-leaf doors. Polished and satin polished stainless steel has been chosen to optimize material functionality, from the point of view of hygiene, strength, cleaning possibilities with detergents and disinfectants, and resistance to corrosion agents. In the second case, the choice of stainless steel has been made on chiefly aesthetical grounds. In fact, these doors have been conceived for interiors. The wooden "core" is lined with polished stainless steel sheets. This material is perfectly suitable for being used both in residential and in public buildings, where it is able to leave a sharp mark of originality and modernity.

As it can be noted in the two aforementioned examples, the boundaries between aesthetical value and functional value are so narrow that the former does not absolutely exclude the latter.

Door Manufacturers: LABEL Spa - Via Ilariuzzi, 17/A - I-43126 San Pancrazio PR, phone +39 0521 6752, fax +39 0521 675222, infocom@labelspa.it, www.labelspa.com/TRE-P & TRE-Più Spa



– Via dell'Industria 2 – I-20034 Bironi di Giussano MI, phone +39 0362 861120, fax +39 0362 310292, www.trep-trepiu.com

“WATER TREADMILL”, AN INNOVATIVE THERAPY IN VETERINARY SCIENCE

(Terapia innovativa in veterinaria: il “Water Treadmill”)

Today, racehorse rehabilitation and coaching require a great deal of professional skills and also appropriate instruments. For this purpose, a company with a 15-year-long experience in the field of horse equipment, has conceived and developed a solution, which is unique of its kind in this area, the “Water Treadmill”. This equipment, which is entirely made of stainless steel allows to have available a highly reliable work tool, which ensures durability over time and less maintenance needs, thanks to the possibility of manufacturing all the elements, including electro-mechanical parts, in stainless steel: EN 1.4301 (AISI 304) for the standard version, and EN 1.4404 (AISI 316 L) for the version to be used in salty water. The stainless steel solution provides a structure that can be easily cleaned and sanitized, which is an essential requirement in horse therapeutic rehabilitation after an operation and in the case of skin shocks. The “Water Treadmill” has a tubular structure made of square-section stainless steel profiles in thicknesses not smaller than 3 mm. Within the structure, which is completely watertight, there is a stainless steel tank made of 2 mm thick sheets, and all welding operations have been carried out through a TIG process. The inner structure with a shock-absorbing plane, is made of stainless steel profiles and the footboard driving and counter-rollers are made of EN 1.4404 (AISI 316 L). A catwalk for the operator, also made of stainless steel and provided with an anti-slip grille is fitted outside the structure. The “Water Treadmill” can be supplied with an either polished or sandblasted surface finish.

Project, development and production: Salvi Michele - S M Trade & Technology Srl – Via Rivo Fontanelle 157 – I-47892 Gualdicciolo RSM, phone +378 0549 992977, fax +378 0549 957232, smtrade@omniway.sm, www.smtrade.com – **Col-laborators:** Nuova Rimecc di Zonzi Riccardo, n.rimecc@alice.sm / “Treadmill” design and production: K+H Armaturen GmbH, www.kh-armaturen.de / **Supplier:** Inox Center – Via San Vitale 12 – I-48020 Sant’Agata sul Santerno RA, phone +39 0545 916311, fax +39 0545 45046, www.inox-center.it

13th WORLD SWIMMING CHAMPIONSHIPS – ROME, 2009: SWIMMING POOLS EMBRACE STAINLESS STEEL

(XIII Mondiale di nuoto FINA-Roma 2009: le piscine sposano l'acciaio inox)

This year, Rome hosted the 13th FINA World Swimming Championships. During this far-reaching international event, a leading company specialized in design and production of large swimming pools and water parks, supplied, among the other support structures developed for the world championships, two temporary swimming pools, which were set up in special areas at the Foro Italico for the synchronized swimming and water polo competitions. This company avails itself of a technological know-how characterized by systems based on the use of modular stainless steel panels. These panels are coated with an extremely hard hot-laminated PVC layer, which makes the panels completely water-resistant (Myrtha® technology). Stainless steel is an innovative material, which ensures excellent hygienic properties, high corrosion resistance, and reduced maintenance costs. In fact, high temperatures and high chlorine concentrations usually produce extremely aggressive environmental conditions in swimming pools, where corrosion resistance is the most demanded material characteristic. The manufacturer of these swimming pools, looking for innovative and advanced materials capable to guarantee high performances, used for their structures 441L ferritic stainless steel, which proved to be the best solution in terms of corrosion resistance and mechanical performances.

Manufacturer: Piscine Castiglione - A&T Europe Spa – Via Solferino 27 – I-46043 Castiglione delle Stiviere MN, phone +39 0376 94261, fax +39 0376 631482, info@piscinecastiglione.it, www.piscinecastiglione.it / **Stainless steel supplied by:** ThyssenKrupp Acciai Speciali Terni SpA – Viale B. Brin 218 – I-05100 Terni, phone +39 0744 490282, fax +39 0744 490879, www acciaitemi.it

PAGE 12

AN OFF-ROAD LUGGAGE RACK FOR ADVENTUROUS JOURNEYS

(Un portabagagli da fuoristrada per viaggi avventurosi)

An engineer who is working in the automotive industry and is also a university professor at the “Politecnico” of Turin, has designed, developed and manufactured a stainless steel luggage rack especially conceived for off-road vehicles, for the purpose of solving all problems arising in connection with mechanical strength and different weather conditions using easy-to-make laser-cut elements to be bent by a simple press brake. The luggage rack, made of EN 1.4301 (AISI 304) stainless steel, consists of two separate parts: a loading platform with a sandblasted tubular 50x30x1.5 mm structure welded through a TIG process, and 8 supporting feet, in thicknesses ranging from 2 to 3 mm, made of EN 1.4301 (AISI 304) stainless steel welded through a TIG process as well. After two years, and after having travelled for 10,000 Km on tracks, dirt patches and damaged asphalt, after having gone across Africa, deserts, mountains and the long Atlantic shores, in the rain and in the snow, and having been exposed to saltiness, this luggage rack has passed the test pretty well and is now ready for new adventures.

Design and manufacture: Dr. Osvaldo Marengo – Via P. Belli 58 – I-10145 Torino, manurika@fastwebnet.it; Martor Spa – Via Cena 65 – I-10132 Brandizzo TO, www.martor.it / **Collaborators:** Politecnico di Torino – Architectural and Industrial Design Department – Castello del Valentino, Viale Mattioli 39 – I-10125 Torino

STAINLESS STEEL FOR MANUFACTURING PUSH-BUTTON PANELS FOR ELEVATORS

(L'acciaio inox per le pulsantiere degli ascensori)

Stainless steel represents the most suitable choice for manufacturing push-button panels for elevators, thanks to its neutral look, which perfectly blends with the other materials, and to a wide range of available surface finishing options, such as the brushed (Scotch-Brite), satin polished and pattern finishes (linen pattern, elephant skin, etc.), which provide the elevator with a modern, creative and innovative design. The manufacturing company, based in Rome, is a leader in the production of push-button panels, and has chosen to use for its products different materials, stainless steel being the most precious of them. EN 1.4301 (AISI 304) stainless steel in Scotch-Brite finish and thicknesses ranging from 0.7 to 3 mm, is generally used, though the company has also successfully made use of ferritic steels as an alternative to traditional austenitic steels, such as the “444” type. In addition to brushed and decorated finishes, the manufacturer has also chosen to use Silver Ice®, an special anti-fingerprint stainless steel, which allows immediately removing any mark and fingerprint, thereby ensuring greater cleanliness and hygiene inside the elevator cage, as well as a better aesthetic impact.

Push-button panel manufacturer: DMG SpA – Via Quarto Negrini 10, C.P. 50 – I-00040 Cecchina RM, phone +39 06 930251, fax +39 06 93025240 / **Stainless steel supplied by:** ThyssenKrupp Acciai Speciali Terni SpA – Viale B. Brin 218 – I-05100 Terni, phone +39 0744 490282, fax +39 0744 490879, www acciaitemi.it

PAGE 13

ON THE ROADS OF CALIFORNIA IN THE CITY OF ANGELS

(Sulle strade della California nella città degli angeli)

Four years have now gone by from the delivery, in the month of June 2005, of the first streetcar of a lot of 50 light rail vehicles for the city of Los Angeles, California. The peculiarity of these vehicles consists in their structure, which is almost entirely made of stainless steel. Stainless steel has been used to make the roof, the two sides and the central part of the car frame. The selected material is EN 1.4318, which corresponds to the 301 LN steel type. It is a Cr-Ni austenitic stainless steel with low carbon content and including nitrogen percentages ranging from 0.10 to 0.20. The stainless steel required for manufacturing the roof and the sides has been supplied in “standard” conditions with yielding point values totalling 310 N/mm² and ultimate tensile stress values totalling 620 N/mm². The material used for the frame was work hardened, and more precisely, it was supplied in a by one fourth work hardened, in order to improve and further enhance its mechanical characteristics. Once again, stainless steel has been put to use in the transport industry to guarantee safety and durability.

Customer: County of Los Angeles, California / **Manufacturer:** AnsaldoBreda Spa – Via Ciliegiole 110/b – I-51100 Pistoia, phone +39 0573 3701, fax +39 0573 370616, www.ansaldobreda.it

PAGE 14

THE ZURICH AIRPORT: A STAINLESS STEEL WINDOW OVERLOOKING THE WORLD

(L'Aeroporto di Zurigo: una finestra inox sul mondo)

The need to make the different areas of the Zurich airport terminal as bright as possible led the architects charged with the task of building the air terminal to choose stainless steel.

Stainless steel profiles were used for different interiors and almost all structures were made using EN 1.4301 (AISI 304) stainless steel, while only a small part of them was made using painted steel (the business-lounge front). Doors were manufactured basing on a fire-stop system, which allows assembling even large size full-glass door frames with very reduced sections. The façades were all made using a special certified fire-stop system of self-bearing vertical rods and cross-beams. All doors were preliminarily welded and subsequently satin polished and the same process was used for the façades. Stainless steel profile welding was carried out through TIG, MIG or electrode arc welding processes. Profiles are 1.5 mm thick and allow perfectly and safely welding the angles. It was decided to use stainless steel with its natural colour for the purpose of reflecting the light inside the terminal and obtaining therefore maximum brightness, and also for the purpose of creating elegant and essential lines without neglecting safety requirements and structure durability: a perfect union of safety, equilibrium, and aesthetics.

Customer: Unique Flughafen AG, Zurigo / **Contractors:** Forster AFG (Arbon - CH) – **Distributor for Italy:** Tu.bi.fer Srl – Via Piani dei Resinelli 21 – I-22036 Erba CO, phone +39 031 643154, fax +39 031 611075, tubifer@forster.it, www.forster.it – **Doors made with the fire-stop system:** Forster Fuego Light EI30 – **Façades made with the system:** Forster Thermfix vario

EN 10088-4 AND EN 10088-5 STANDARDS HARMONIZED TO CPD

(Armonizzate alla CPD le norme EN 10088-4 e EN 10088-5)

The Official Journal of the European Union, in the issue of July 4th, 2009 announced that the recently published (see INOSSIDABILE 176) EN 10088-4 and EN 10088-5 standards were harmonized to Directive 89/106/EEC (CPD - Construction Products Directive). As a consequence, all products included in those standards can now carry the CE marking, in compliance with the CPD.

PAGE 15

STAINLESS STEELS
STANDARDS, DIRECTIVES AND LAWS
(Acciai Inossidabili – Normative, Direttive, Legislazioni)

Conference Hall – Centro Servizi di Banca Popolare di Milano

Via Massaua 6 – Milan

Wednesday, November 18th, 2009 – 8.30 a.m.

Standardization plays a very important role in business exchanges, especially in terms of consumer protection. As a consequence, within the iron and steel industry, and in particular, concerning stainless steel products, standards and norms become today increasingly relevant in helping iron and steel product consumers to obtain reliable information, identify the specific characteristics of each product, and have the guarantee of the right product quality for any kind of application.

This problem becomes of critical importance in the stainless steel industry, as for many years now, our country has reported the highest rates of apparent per-head consumption of finished steel products in Europe. An evidence that Italy has a great processing capacity in the area of stainless steel products destined to the production of parts, elements and equipment suitable for any industrial application, which are both used in the domestic market, and exported all over the world.

In this background, standardization has taken a particular value, especially in the last few years, since more and more frequently the European market in general, and the Italian one in particular, are offering products imported from several foreign countries, and above all from Far-East. Sometimes, these products do not comply with the required international standards and are not always provided with the necessary reference papers/documents. Therefore, these imported steel products can create a lot of bewilderment and confusion in the “production-trade-user” chain, giving often rise to complaints. For these reasons, it has been judged useful and advisable to organize a meeting addressed to all those who work in the stainless steel industry (manufacturers, dealers, processing companies, and users) focused on the recent developments of the different standards, or standard proposals, referred to stainless steel products, without neglecting certification and legislative matters. The event is organized by Centro Inox in cooperation with Unisider.

The official language of the meeting will be Italian.

Programme:

8.30 – Participants’ registration

9.00 – Opening of proceedings

Welcome address to participants and introduction (F. Capelli – Centro Inox, C. Cappelli – Unisider)

The Normative Background: UNI/EN/ISO/ASTM Standards – Roles, Interaction, and Developments (G. Corbella – Unisider)

Inspection and Control Papers (EN 10204) – Value and Importance of the Different Certification Types (B. Stefanoni – IGQ)

Coffee break

Flat Iron and Steel Product Standards (G. Di Caprio – Stainless steel specialist, AIM)

Long Iron and Steel Product Standards (M. Cusolito – Rodacciai)

Welded Tube Standards (S. Toscano – Marcegaglia Div. Inox)

Seamless Tube Standards (C. Fiora – Salzgitter Mannesmann Stainless Tubes)

Discussion

Buffet lunch

14.00 – Opening of proceedings

Non-Compliance and Frauds – Legal aspects (L. Sommariva – University of Bergamo, Faculty of Economics)

The Problem of Radioactivity (F. Bregant – Federacciai)

PED and CPD Directives (C. Cappelli – Unisider)

Food-related Legislation (V. Boneschi – Centro Inox)

Discussion

16.30 Closure of proceedings

For additional information: Centro Inox – Piazza Velasca 10 – I-20122 Milan, phone + 39 02 86450559 – 02 86450569 - Fax +39 02 860986, www.centroinox.it, eventi@centroinox.it

PAGE 16

AN OASIS OF GLASS AND STAINLESS STEEL

(Un'oasi di vetro e acciaio inossidabile)

An unusual project, unique of its kind, has been carried out for the Museum of Zoology of the University of Catania: a scientific glasshouse for tropical butterflies. The structure of the glasshouse has an irregular shape, as the glass case is provided with different facets. Thanks to the different orientation and inclination options of each wall, it is possible to keep the thermal gain of the inner spaces unchanged during all day hours and in all seasons. The walls are entirely made of stratified shatter-proof glass, while the structure of the top, the base and the bearing pillars are made of EN 1.4301 (AISI 304) stainless steel. Satin polished plates have been used for the top and the base structures. The use of stainless steel has offered the designer unique aesthetic results, characterized by the lightness and brightness of the structure, ensuring at the same time high corrosion resistance and durability properties.

Design: Manfredi Nicoletti / **Structural work:** La Metallurgica 2000 – Via Perpignano 360/2 – I-90135 Palermo, phone +39 091 405273, fax +39 091 405474, www.lametallurgica2000.it

CENTRO INOX

The Italian Stainless Steel

Development Association

Piazza Velasca, 10 - 20122 Milano - Italy

Telephone +39 02 86450559 -

+39 02 86450569

Fax +39 02 860986

redazione.inossidabile@centroinox.it -

www.centroinox.it

